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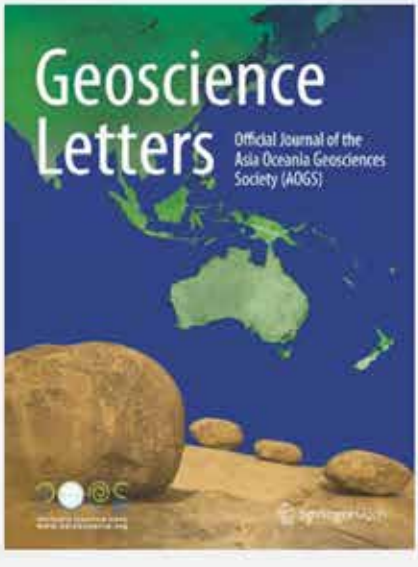
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New Dimensions for Natural Hazards in Asia:
An AOGS-EGU Joint Conference



INTERESTED! Info Session & Networking Lunch
Tue 08 Aug 2017 12:45 - 1:30 pm, Room 304, SUNTEC Singapore

Event date: **04 - 08 February 2018**

Event location: **Tagaytay, Philippines**

Abstract Submission Deadline: 31 Aug 2017

Author Registration Deadline: 23 Nov 2017

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View of Mt. Bromo

WELCOME!

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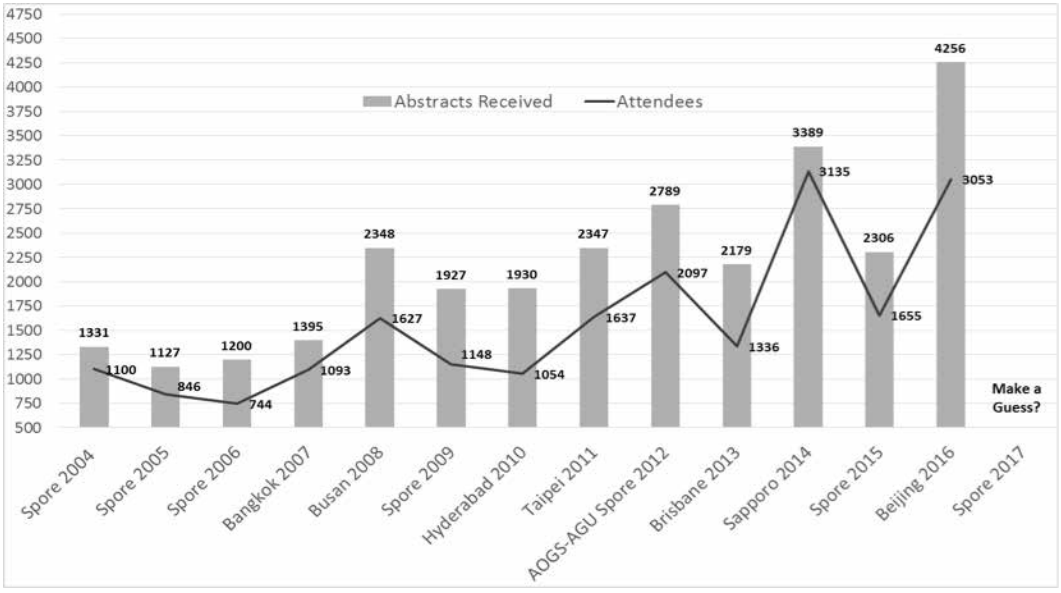
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Message from AOGS President

Did you notice that AOGS has become a teenager? In contrast to a human teenager (who, speaking for myself, typically remains aimless and clueless at that age), AOGS has grown mature and fully confident! Abiding to our society's motto "In Asia for Asia and the World!", AOGS is maturing into a great society of geoscientists!

Welcome to Singapore this year! People often wonder why AOGS returns to Singapore for our annual meetings every other year (used to be every three years). Primarily, this is for the benefit of administrative and logistical reasons as AOGS is an international organization registered in Singapore. Additionally, the general election, which happens once every two years, for the incoming AOGS leadership and officers (who are actually voluntary servants to you all) is to be held in the easily-accessible city of Singapore.

Here is a plot (what would a geoscientist do without a tell-tale plot!) on the statistics of past AOGS annual meetings. You can see a lot of interesting facts even with a general glance. I have left the final point for this year vacant, so you can make a wager with your friends on the number of attendees, which will be announced on the last day (Friday, 11th Aug) together with the results of the general election of the new class of officers. I can give you a hint: the number of abstracts is well over 2000 this year!



So how many members like you does AOGS have now? If you recall, the definition of membership in AOGS is one who has attended the AOGS annual conference at least once in the past 3 years. The current number is 7201. Congratulations to you for being associated with, and enjoying the comraderies of all the colleagues and friends who share common interests and goals in geoscience!

This year the program in Singapore is expanded with exciting, fresh and innovative activities. On top of the highly-regarded Axford Lectures and specially arranged plenary lectures by other distinguished scientists, the program now also includes an extensive education outreach program, a field trip, the innovation theatre, a closing ceremony and farewell reception. Additionally, an installation that mimics the Northern Lights in collaboration with Andrew Loh Designs, renowned Singapore artist. Remember to take a break at this curated space.

To add on, AOGS next year (2018) will be even more eventful! First of all, the annual meeting will be held in Honolulu, Hawaii, from 3 to 8 June 2018 (before the start of the hot tourist season). So get your Hawaiian shirts ready! AND, after years of preparation, AOGS and EGU will be holding a joint Natural Hazards Symposium in the Philippines in February! Natural hazard issues are in abundance and variety in our home continent. In anticipation of the success of this joint symposium, we are already contemplating next collaboration on Natural Hazard topics.

Message from AOGS President

Finally I'd like to report to you the good news that AOGS Vice-President, Professor Yuntai Chen, has fully recovered from his heart surgery performed a year ago. If you recall, he apologized for being absent from the 2016 annual meeting in Beijing and I had to step-in as Chair at short notice. We wish him well, and will look out for him so he does not work too hard as he does always.

On Wednesday, 9 August, Singapore celebrates its 52nd year of independence and the national day parade will be held at the Marina Bay Floating Platform, located close by. You may be able to watch the parade and firework display from your hotel windows. Happy birthday Singapore!

Benjamin Fong CHAO
AOGS President

2017 AOGS Axford Medal Award Recipient



The Asia and Oceania Geosciences Society (AOGS) is honoured to present the 2017 Axford Medal to Professor Dong-Kyou Lee, Professor Emeritus of Seoul National University, for his exceptional contributions to the modeling and understanding of the weather and climate of Asia.

Professor Lee is among the world's leading scientists in regional climate studies. Using advanced regional climate models, he and his colleagues have studied the dynamics and thermodynamics of a range of phenomena that involve heavy convective precipitation, including tropical cyclones. Through the use of these models, he has quantified the relationship between large-scale climate and climate change to episodic forecasts of extreme, high-impact weather events over Asia and Oceania.

For example, using a regional climate model Professor Lee explained the relative role of positive sea-surface temperature anomalies in the equatorial and northern off-Equatorial Central Pacific in producing the observed increase in number of tropical cyclones (TC) approaching East Asia in July-October. This study showed that it was the northern SST anomaly that affected the tracks of TC by altering the large-scale steering circulation and funneling the TCs into east China, Taiwan, Korea and Japan.

In another modeling study, Professor Lee and his colleagues simulated climate change for 70 years (1980-2049) over East Asia. In this study, the annual mean surface temperature increased by 1.8°C while the average daily precipitation decreased by 0.2 mm/day as a result of the northward shift of the monsoon rain-band. Notably, even though the average precipitation over the Korean peninsula decreased, the frequency of very heavy (flooding) precipitation increased. Also, the maximum intensity of the strongest typhoons increased; together these changes constitute a high impact of climate change to society.

Professor Lee's scientific contributions to weather and climate research and forecasts, especially in the areas of heavy rainfall and mesoscale convective systems, and typhoon forecasting, and the regional climates of Asia are inseparable from his long-term efforts and leadership role in the Regional Model Intercomparison Project (RMIP) and the Asian-Pacific Network for Global Change Research (APN). RMIP began with the applications and comparison of numerical weather forecast models with the focus on China, Japan and Korea. Critical issues such as the change and variability of monsoon climate in future, sources and range of uncertainty in climate change projections, and adaptation and mitigation strategies to reduce the risk induced by climate change on regional scale were connected in these studies.

Dr. Lee's scientific contributions extend beyond climate, into areas such as numerical weather prediction of tropical cyclones. For example, Lee and his colleague Suk- Jin Choi showed that a high resolution numerical weather prediction model could successfully simulate the torrential rainfall (~800 mm/day) caused by Typhoon Rusa (2002). Investigating the underlying physics, they showed that there were two major mechanisms for the heavy precipitation—dynamical lifting of moist tropical air by the large-scale cyclone circulation and terrain-induced convective precipitation.

Professor Lee has a notable record of teaching and advising students. He has supervised 17 Ph.D. students and 51 M.S. students and taught courses in numerical weather prediction, numerical methods, physics of weather and climate models, data assimilation and atmospheric predictability.

In addition to being an outstanding research scientist and educator, Professor Lee is a skillful administrator and dedicated public servant. He has served as Director of the Korea-USA Weather and Climate Center, Seoul National University (2010-2012), a member of the WMO Science Steering Committee of the World Weather Research Program (2010 – present), and in his position as Director General of the Numerical Modeling Bureau of KMA since 2015. In 2000 he organized the First International Conference of Mesoscale Convective Systems (ICMCS) of Heavy Rainfall and Tropical Cyclone over East Asia, and these successful conferences continued to be held on a regular basis. It is unusual for a person of such a strong academic background to also be a leader in operational institutions such as the KMA. Professor Lee is highly respected by his colleagues, having been elected as President of the Korean Meteorological Society (1998-2000) and President of Asia Oceania Geosciences Society (2008–2010).



"Competing Influences of Greenhouse Warming and Aerosols on Asian Monsoon Climate Change"

William K. M. LAU
University of Maryland

07 August, Monday
Nicoll Room, Level 3
16:15 – 17:00

Abstract

In this lecture, results are presented, based on CMIP5 multi-model historical simulations, illustrating the competing influences on the global and regional drivers of the Asian monsoon under global greenhouse warming (GHG) and aerosol forcing. A steady increase in the GHG-induced warm-ocean-warmer-land (WOWL) has been in effect since the 1950's in connection with increased anthropogenic GHG emissions, substantially increasing moisture transport from adjacent ocean, and enhancing rainfall over the Asian monsoon regions. However, under GHG warming, atmospheric stability is increased due to strong reduction in mid-tropospheric and near surface relative humidity, in conjunction with a strengthened the Deep Tropical Squeeze (DTS, Lau and Kim 2015). During the boreal summer, the DTS strongly suppresses monsoon convection and rainfall over subtropical and extratropical land, leading to a weakening of the Asian monsoon meridional circulation under GHG-only forcing. The inclusion of aerosol emission changes strongly masks WOWL and the DTS, up to 60% over the northern hemisphere, negating to a large extent the rainfall increase due to GHG warming, and leading to a further weakening of the monsoon circulation, through increasing most static energy, associated with aerosol solar dimming and semi-direct effects. Overall, we find that GHG exerts stronger positive rainfall sensitivity, but less negative circulation sensitivity in SASM compared to EASM. In contrast, aerosols exert stronger negative impacts on rainfall, but less negative impacts on circulation in EASM compared to SASM.



"Long-term Drivers of Aboveground-Belowground Linkages and Ecosystem Functioning"

David A. WARDLE
Nanyang Technological University

07 August, Monday
Nicoll Room, Level 3
17:00 - 17:45

Abstract

All terrestrial ecosystems consist of communities of aboveground and belowground organisms, which interact with each other over short time scales, but which both drive and respond to processes that operate over much longer time scales, including those that are relevant to ecosystem biogeochemistry. Here I illustrate the linkage between short-term interactions between aboveground and belowground biota, and long term biogeochemical processes, through four examples that involve contrasting temporal scales. The first example shows how invasion by mammals in New Zealand has impacted on plant-soil linkages and nutrient cycling and supply rates over the order of several decades. This involves both invasive deer on the New Zealand mainland and invasive rats on replicated offshore islands. The second example demonstrates, for a group of lake islands in northern Sweden that differ greatly in fire history, that time since disturbance is a powerful driver of plant-microbe associations which in turn drive ecosystem carbon storage and nitrogen (N) and phosphorus (P) cycling over centuries to millennia. The third example involves ecosystem 'retrogression', which is the process through which nutrient availability and thus ecosystem processes decline over geological time scales as a consequence of both abiotic and biotic factors. This involves demonstrating that changes in N:P stoichiometry during retrogressive processes impair both aboveground and belowground processes in a consistent manner in contrasting (boreal, temperate and subtropical) regions of the world over millennia and beyond. The fourth example involves elevational gradients in mountains that have developed over geological time. It shows how long-term variation in temperature across each of several temperate elevational gradients around the world impact on plant N:P stoichiometry through its impact on soil processes over the geological timescales that these mountains have been present. In combination, these four examples highlight that understanding aboveground-belowground linkages offer many insights about the abiotic and biotic drivers of ecosystems, including those that operate over much longer time scales that the linkages themselves operate, such as climate and geology, as well as those that are relevant to understanding the ecosystem impacts of human-driven global change.



"Last Echo of El Nino Revealing a Regional Coupled Mode over the Indo-western Pacific Warm Pool"

Shang-Ping XIE
University of California - San Diego

09 August, Wednesday
MR331, Level 3
11:00 – 11:45

Abstract

El Niño-Southern Oscillation (ENSO) induces coherent climate anomalies over the Indo-western Pacific warm pool, and these anomalies outlast sea surface temperature (SST) anomalies of the equatorial Pacific by a season, with major effects on the Asian summer monsoon. Specifically, a large-scale anomalous anticyclone (AAC) is a recurrent pattern in post-El Niño summers, spanning the tropical Northwest Pacific and North Indian Oceans. Regarding the ocean memory that anchors the summer AAC, competing hypotheses emphasize either SST cooling in the easterly trade wind regime of the Northwest Pacific or SST warming in the westerly monsoon regime of the North Indian Ocean and South China Sea. Recent studies reveal a coupled ocean atmosphere mode that builds on both mechanisms in a two-stage seasonal evolution. In spring when the northeast trades prevail, the AAC and Northwest Pacific cooling are coupled via wind evaporation-SST feedback. The Northwest Pacific cooling persists to trigger a summer feedback that arises from the interaction of the AAC and North Indian Ocean warming, enabled by the westerly monsoon wind regime. This Indo-western Pacific ocean capacitor (IPOC) explains why El Niño stages its last act over the monsoonal Indo-Northwest Pacific and casts the Indian Ocean warming and AAC in leading roles.

Conflicting views exist regarding the climatic role of the Indo-western Pacific warm pool. Some argue for a disproportionately important role as mean SSTs there well exceed the threshold for deep convection. By citing weak local correlations between SST and rainfall, on the other hand, the opposing camp argues that SST variability there is passive and of limited atmospheric effect. The talk will trace historical developments in the study of Indo-western Pacific warm pool variability. Recent studies consistently show that the warm pool is coupled with the atmosphere, but this coupling is not always local, rendering the local SST-rainfall correlation a poor metric. While ENSO is a dominant forcing, regional ocean-atmospheric coupling and feedback select preferred patterns of the regional response. Such regional modes (e.g., the IPOC and Indian Ocean dipole) are important in determining the season and spatial pattern of predictable climate variability.



"Extratropical Forcing and Tropical Rain Distribution Changes: Energetics Framework and Ocean Dynamics"

Sarah M. KANG
Ulsan National Institute of Science and Technology

09 August, Wednesday
MR331, Level 3
11:45 – 12:30

Abstract

Intense tropical rainfall occurs in a narrow belt near the equator, called the inter-tropical convergence zone (ITCZ). In the past decade, the atmospheric energy budget has been used to explain changes in the zonal-mean ITCZ position. The energetics framework provides a mechanism for extratropics-to-tropics teleconnections, which have been postulated from paleoclimate records. In atmosphere-only models, the ITCZ shifts toward the warmed hemisphere, regardless of the latitudinal position of thermal forcing, in order for the Hadley circulation to transport energy toward the colder hemisphere. However, recent studies using fully coupled models show that tropical rainfall can be rather insensitive to extratropical forcing when ocean dynamics is included.

In this study, we proceed to investigate the role of ocean dynamics, which has not yet been identified in a systematic manner. We propose to build a hierarchy of ocean models to systematically explore the full dynamical response of the coupled climate system. Here, we build gray radiation atmospheric model that is coupled to ocean models of different levels of complexity. As a first step, we explore the effect of meridional Ekman heat advection while neglecting the upwelling effect on the ITCZ response to prescribed extratropical thermal forcing. The tropical component of Ekman advection is a negative feedback that partially compensates the prescribed forcing, whereas the extratropical component is a positive feedback that amplifies the prescribed forcing. Overall, the tropical negative feedback dominates over the extratropical positive feedback. Thus, including Ekman advection reduces the need for atmospheric energy transport, thereby dampening the ITCZ response.

Next, the upwelling effect is included by considering a deep return flow whose temperature is diagnosed from the SST. The extratropical positive feedback nearly vanishes because of compensating effects of advection by the deep return flow. The subtropical response of Ekman suction is a negative feedback that partially compensates the prescribed forcing, whereas the deep tropical response of Ekman pumping is a positive feedback that amplifies the prescribed forcing. Overall, the subtropical negative feedback dominates over the deep tropical positive feedback. Thus, the wind-driven ocean circulation reduces the need for atmospheric energy transport, thereby dampening the ITCZ response.



"Nutrient Limitation on Land and Its Climatic Significance"

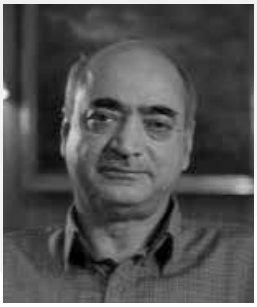
Ying-Ping WANG
Commonwealth Scientific and Industrial Research Organisation

09 August, Wednesday
MR335, Level 3
11:00 – 11:45

Abstract

Nutrient limitation on land is well documented and analysed by plant scientists for many decades, but has only been implemented into global land models recently for studying carbon-climate feedback and land-based climate mitigation.

In this talk, I will describe three studies from my group on the climatic significance of nutrient (both nitrogen and phosphorus) limitation. Based on carbon:nitrogen ratios of different carbon pools and the estimated carbon fluxes by 11 earth system models for the fourth assessment (AR4) of the International Panel on Climate Change (IPCC), we found that most models overestimated the land carbon uptake, and underestimated the global warming. The second study used a simple earth system model with the Australian community land model (CABLE) to assess the differences in allowance emissions for achieving two representative concentration pathways (RCP8.5 and RCP2.6) from 2006 to 2100 with or without nutrient limitation on land. We show that nutrient limitations reduce the land carbon uptake and allowable emissions by 69 Pg C (21%) for RCP2.6 and by 250 Pg C (13%) for RCP8.5 by 2100. The third study compared the effectiveness of reforestation in the temperate and boreal regions or deforestation in the subtropical and tropical regions (both are 4 million km2 from 2006 to 2100) for climatic mitigation. We find that carbon gain from reforestation in the temperate and boreal regions is much less than the carbon loss from deforestation in the subtropical and tropical regions, because of the stronger nutrient limitation in boreal and temperate regions than in the subtropical and tropical regions. Therefore protecting the existing subtropical and tropical forests is about twice as effective as planting new forests in the temperate and boreal regions for climate mitigation.



"Oxygen-deficiency in Oceanic Waters"

Syed Wajih A. NAQVI
Kuwait Institute for Scientific Research

09 August, Wednesday
MR335, Level 3
11:45 – 12:30

Abstract

An efficient circulation ensures adequate supply of oxygen to subsurface waters, preventing them from turning anoxic in most oceanic areas. However, in a few regions oxygen demand for respiration exceeds its supply, resulting in complete oxygen removal within a thick layer at intermediate depths. Such oxygen-deficient zones (ODZs) are found in the eastern boundary upwelling regions of the Pacific Ocean (off Peru-Chile and Mexico) and the Atlantic Ocean (off Namibia), and in the northern Indian Ocean (Arabian Sea and Bay of Bengal). Although containing <7% of the oceanic volume, the ODZs make significant contribution to biogeochemical cycles, especially the global nitrogen balance. This is because in the absence of oxygen degradation of organic matter sinking from the surface layer is carried out by microbes using other oxidants of which nitrate, fairly abundant in seawater, is energetically most economical. Resultant production of molecular nitrogen (N2) by this process (denitrification) and by anaerobic ammonium oxidation (anammox) in oceanic ODZs and sediments is the major nitrogen sink and a key component of the nitrogen cycle. The ODZs are also important for cycling of nitrous oxide (N2O), an intermediate of the redox chemistry of nitrogen and a potent greenhouse gas, providing conditions suitable for both its production and consumption of, but serving as a strong net source. Consequently, emissions from low-oxygen zones account for up to one-third of the global oceanic N2O efflux. The open ocean ODZs can extend to continental margins through upwelling of surface waters as, for example, happens seasonally over the western Indian continental shelf. Conditions in such shallow systems are often more severe, sometimes resulting in sulphate reduction and very high accumulation of N2O.

Oceanic ODZs have varied in size and intensity in the geological past associated with and possibly contributing to climatic changes. Presently they appear to be experiencing changes driven by human activities. Available data show that ODZs of the Pacific have expanded significantly over the past few decades. Evidence for such an expansion is lacking from the Indian Ocean where (in the Bay of Bengal) the world's largest ODZ that does not experience large scale nitrogen loss is located. Given the near zero (nanomolar) oxygen concentrations, any intensification of this and other similar systems is expected to greatly impact the nitrogen budget.

Human activities are having an even larger impact in coastal areas where hundreds of oxygen-depleted (hypoxic) zone have developed in the past few decades, largely due to nutrient over-enrichment (eutrophication) caused by huge increase in terrestrial nutrient loading arising from sources such as agriculture, human waste, fossil fuel and industries. These "dead zones", so called because of the adverse impact they have on marine ecosystems and fisheries, are not only detrimental for ocean health but also for human wellbeing. Global concerted efforts are urgently needed to take remedial measures for checking ocean deoxygenation by cutting down greenhouse gas emissions to the atmosphere and nutrient inputs to the oceans.



"Hydrologic Modeling: Progress and Future Directions"

Vijay P. SINGH
Texas A & M University

08 August, Tuesday
MR330, Level 3
11:00 – 11:45

Abstract

Briefly tracing the history of hydrologic modeling, this paper will address the progress that has been achieved since the advent of computer and what the future may have in store.

The birth of hydrologic modeling can be traced to the 1850s, with the development of the rational method for computing peak discharge and experiments on flow through sands (Darcy's law). Over the next century, many groundbreaking advances in modeling different components of the hydrologic cycle were made. Some of these advances were based on the laws of mathematical physics and some had their basis in laboratory and/or field experiments. The current state of hydrologic science and engineering owes a great deal to the pre-1960 advances.

The 1960s witnessed the birth of computer revolution, and hydrologic modeling took a giant leap forward. The computer provided a new power for doing computations. As a result, a new branch of hydrology, called digital or numerical hydrology, was born. Several major advances ensued. First, simulation of the entire hydrologic cycle became a reality, as illustrated by the development of the Stanford Watershed Model, and umpteen others that followed. Second, two- and three-dimensional modeling was made possible because of advances in numerical mathematics, which led to such models of channel flow, groundwater, infiltration, and soil water. Third, simultaneous simulation of water flow and sediment and pollutant transport was undertaken, as well as of different phases of flow. Fourth, modeling at large spatial scales (e.g. a large river basin) and at small temporal scales (e.g. minutes) was undertaken. Fifth, integration of hydrology with allied sciences became possible, which led to coupling hydrology with climatology, geomorphology, hydraulics, soil physics, geology, and ecosystems. Climate change became part of hydrologic analysis.

In the decades that followed, computing prowess increased exponentially and hydrology began maturing and expanding both vertically and horizontally. Tools from fluid mechanics, statistics, information theory, and mathematics were employed and became part of hydrology. Further, computer also made possible the development of user friendly software, and tools for date acquisition, storage, retrieval and processing. Remote sensing tools (e.g. radar, satellites) made data acquisition for large areas possible. Geographical information systems (GIS) were developed for processing huge quantities of raster and vector data. The past two decades witnessed the application of artificial neural networks, fuzzy logic, wavelets, entropy theory, copula theory, chaos theory, network theory, and catastrophe theory.

With advances in data capturing, analysis, and transfer, it seems that the future of hydrology will be even brighter, with new tools at its disposal. For example, drones will become commonplace for acquiring spatial data. Hydrologic models will become so user-friendly that little hydrologic knowledge will be needed to operate them, just like one does not need to be an automobile engineer to drive a car or an electrical engineer to operate an electrical system. Each model, however simple or complicated, will be associated with a statement of uncertainty. New frontiers of hydrology will unfold with the use of cell phones. Hydrologic forecasting capability will multiply. There will be greater interaction between the user and the model and the modeler. This has already started to happen through what is now regarded as social hydrology. Hydrology will play an increasing role in meeting grand challenges of this century, such as water security, food security, energy security, environmental security, health security, water-food energy nexus, and sustainable development.



"Integrated Hydro-biogeochemical Modeling for Comprehensive Environmental Impact Assessment in Agricultural Lands"

Yiping WU
Xi'an Jiaotong University

08 August, Tuesday
MR330, Level 3
11:45 – 12:30

Abstract

Greenhouse gas emissions due to anthropogenic activities continue to alter the climate, and the induced changes of hydrological and ecological processes (i.e., water, carbon, and nitrogen cycles) attract a growing public concern. Process-based numerical models in environmental science can help understand and quantify the terrestrial material cycles in nature. However, the existing models usually focus on the cycles of one element (e.g., water, carbon, or nitrogen). For example, hydrological models such as Soil and Water Assessment Tool (SWAT) focus on the water cycle at watershed scale, whereas biogeochemical models such as DayCent (i.e., daily CENTURY) emphasize carbon storage and fluxes of ecosystems at landscape scale. Therefore, using either one of the two categories of models is not enough for understanding/solving the current complex environmental issues that involve multiple aspects such as water quantity and quality, soil water/carbon storage, and plant productivity. Therefore, this study was to 1) develop an integrated model implementation coupler that aims to drive both SWAT and DayCent—the two representative models in hydrology and biogeochemistry, respectively—to accomplish the simultaneous simulation of water and carbon cycle modeling, and 2) evaluate the comprehensive environmental consequences caused by large-scale biofuel production induced land-use changes such as increased frequency of corn growth in crop rotation, corn residue harvesting, and land cover change for cultivating dedicated energy crops at regional scale. Our developed SWAT-DayCent Coupler was examined with a case study of an agricultural area in the Midwestern United States. The study results could be valuable for understanding the water and carbon dynamics of ecosystems and informative for decision-makers when seeking the sustainable watershed management in multiple ways (e.g., water resources protection, carbon sequestration, and plant/crop productivity).



"Putting in Place a Responsive Program for CCA-DRR in the Philippines"

Alfredo Mahar Francisco A. LAGMAY
University of the Philippines Diliman

11 August, Friday
MR330, Level 3
11:00 – 11:45

Abstract

After the devastating floods of the 2011 Tropical Storm Washi killed thousands in the southern island of the Philippines, the government of the Philippines requested scientists from the University of the Philippines to put in place a responsive program to address the disaster problem of the country. Learning the lessons from past local and international disasters of over two decades, a program called NOAH or Nationwide Operational Assessment of Hazards was established and launched on 6 July 2012. The program integrated 20 funded projects from different "data provider" agencies of government and the academe. Key actions and targets of the program included the use of high-resolution topography (LiDAR and IfSAR) for the generation of a nationwide multi-scenario, multi-hazard maps for floods, storm surges and landslides; installation of 1500 locally manufactured automated rain and water level sensors; use of near-real time information to complement forecasts in preparing for hazards; strategic communication of hazards information that considers the culture and mindset of Filipinos; Open Data access to all hazards related information; development of platforms for the integration of big data such as interactive websites and mobile apps to empower local government units and people in communities; and participatory engagement in the country's disaster efforts. The success of NOAH since its launch is mirrored in at least 15 averted disasters, widespread support of the program from "data user" agencies, local government units, CSOs and private entities and recognition from international groups. The work of the multidisciplinary team of the NOAH program, which include scientists, engineers, environmental planners, social scientists and artists, however, is far from over. Mainstreaming of Climate Change Adaptation-Disaster Risk Reduction (CCA-DRR) to local government development plans are necessary for future resilience of communities. Moreover, the integration of the science and technology output (i.e. multi-scenario based maps and use of NOAH tools) into local government efforts is vital for building climate change adaptive communities. The long-term education of people on the key actions of the NOAH program, incorporated and implemented in comprehensive development plans of each and every community can stem the growing problem of disaster risk of the country. Continued support of this program that executes the tenets enshrined in the Sendai Framework is imperative. It helps further development of our nation and bolsters our chances for survival.

Early Career Researcher Distinguished Lecture - IG
(Interdisciplinary Geosciences)



"Progress in the Geochemical Analysis of Tsunamis and Coastal Environments"

Tetsuya SHINOZAKI
University of Tsukuba

11 August, Friday
MR330, Level 3
11:45 – 12:30

Abstract

Understanding Earth's environment in the past is crucial to helping understand its future. The evidence for past climatic and environmental changes are archived in a variety of environments such as sediments, ice, coral, etc. Understanding the geochemical record preserved in these archives is an invaluable tool for learning about past environments. For example, the long-term prediction of ongoing global warming is based on our understanding of past global and local climate changes that have been reconstructed by using geochemical analysis.

The over the past decade or so, geochemical techniques have been applied to the study of past tsunamis. A tsunami is invariably a high-energy event that erodes coastal and nearshore sediments that are subsequently deposited in and around the littoral zone. The age and magnitude of an individual event is generally reconstructed from a detailed study of these sediments that are left behind. Determining a tsunami origin for such sediments has conventionally relied upon a suite of sedimentological and micropaleontological features, however these are not always present or well preserved. More recently, the study of geochemical characteristics has also been used as a proxy for determining the tsunami origin of a deposit. Seawater incursions and the introduction of marine organic matter can be detected through geochemical analysis thus providing strong evidence that event deposit was formed by saltwater inundation. Furthermore, the marine geochemical signature of an event has the potential to estimate the full extent of tsunami inundation far more precisely that the sediment alone. Studies of recent modern tsunamis (e.g. 2011 Tohoku-oki tsunami) have revealed that the visible sedimentary evidence invariably does not extend as far as the inundation limit, indicating that estimates of the magnitude of past events have undoubtedly been under-estimated. The geochemical signature of a tsunami extends beyond the sediment limit to the maximum point of inundation thus allowing a better estimation of its magnitude. Moreover, these geochemical data can be used is many other aspects of coastal environmental science. For example, tsunami inundation often causes secondary disasters such as salt damage and soil pollution. Geochemical analysis is therefore invaluable in helping to determine the extent of damage and pollution from which appropriate rehabilitation plans can be developed.

In this talk, I will address recent progress in the study of the geochemistry of past tsunamis and coastal environmental science.



"The Indonesian Throughflow, Its Variability and Centennial Change"

Ming FENG
Commonwealth Scientific and Industrial Research Organisation

10 August, Thursday
MR330, Level 3
11:00 – 11:45

Abstract

The Indonesian Throughflow (ITF) is an important component of the upper cell of the global overturning circulation that provides a low-latitude pathway for warm, fresh waters from the Pacific to enter the Indian Ocean. Variability and changes of the ITF have significant impacts on Indo-Pacific oceanography and global climate. In this presentation, I discuss observed features of the ITF and its interannual to decadal variability. I will also discuss on its centennial change under the influence of the global warming.

The ITF mainly sources from north Pacific thermocline waters, with additional contributions from the lower thermocline waters of the south Pacific. The ITF waters experience insensitive mixing in the Indonesian Seas before exit to the Indonesia-Australian Basin in the Indian Ocean. The ITF affect the physical structure of the Pacific and Indian oceans, as well as the ocean boundary current systems in the two ocean basin.

The ITF passes across a region that comprises the intersection of two ocean waveguides – those of the equatorial Pacific and equatorial Indian Ocean. The ITF geostrophic transport is stronger during La Niñas and weaker during El Niños. The Indian Ocean wind variability associated with the Indian Ocean Dipole (IOD) in many years offsets the Pacific ENSO influences on the ITF geostrophic transport during the developing and mature phases of El Niño and La Niña, due to the covarying IOD variability with ENSO. Decadal and multi-decadal changes of the geostrophic ITF transport have been revealed: there was a weakening change from the mid-1970s climate regime shift followed by a strengthening trend of about 1 Sv every 10 years over the recent decades. These decadal changes appear mostly due to the ITF responses to decadal variations of the trade winds in the Pacific. Thus, Godfrey's Island Rule appears to be able to quantify decadal variations of the ITF.

Climate models project a weakening trend of the ITF under the global warming. Both climate models and downscaled ocean model show that this ITF weakening is not associated with the changes of the trade winds in the Pacific into the future, and the reduction of deep upwelling in the Pacific basin is mainly responsible for the ITF weakening. Because of the close coupling between the wind-driven circulation and the overturning circulation in feeding the ITF, there is a need to amend the Island Rule to take into account of the contributions from the overturning circulation.



"Development and Application of Foraminifera Shell-Bound Nitrogen Isotopes as a Paleoceanographic Tool to Reconstruct Past History of the Marine Nitrogen Cycle"

Haojia Abby REN
National Taiwan University

10 August, Thursday
MR330, Level 3
11:45 – 12:30

Abstract

Nitrogen (N) and phosphorus are the two nutrients required in large quantity by phytoplankton in the ocean, and together they limit productivity throughout most of the tropical, subtropical, and temperate ocean. Both the cycling of N and its input/output budget have been argued to control the fertility of the ocean and the ocean's role in setting atmospheric CO_2. The two stable isotopes of N (^{14}N and ^{15}N) and their fractionation by natural processes provide a mechanism for studying the cycle and budget of oceanic fixed N in the past. In environments of high sedimentary organic matter preservation, bulk sedimentary N appears to suffice for paleoceanographic N isotope studies. However, across most of the open ocean, the $\delta^{15}N$ of N exported from the surface ocean is altered as it sinks through the water column and is buried in deep sea sediments; it can also be contaminated with allochthonous (e.g., terrestrial) N. To reconstruct N isotope changes in the ocean, we have developed a protocol for the isotopic analysis of foraminiferal shell-bound N, which is 100 times more sensitive than traditional method, allowing for rapid progress with a N isotope archive that was previously not feasible to measure. Measurements on surface sediments and downcore record from the global ocean show the promise of foraminifera-bound $\delta^{15}N$ (FB-$\delta^{15}N$) to provide both a robust N isotope archive for paleoceanography, and one with a unique potential of richness, given the existence of multiple foraminiferal species with different depth habitats and behaviors. In this talk, I will present two case studies using this new proxy to reconstruct past changes in the input/output budget of oceanic fixed N and its potential to change ocean fertility and atmospheric CO_2.

Marine nitrogen fixation, which produces most of the ocean's fixed nitrogen, is thought to be affected by multiple factors, including ocean temperature and the availability of iron and phosphorus. The past glacial-interglacial cycles are the natural experimental laboratory for testing and identifying the drivers for changing marine nitrogen fixation. Applications of foraminifera-bound nitrogen in several tropical/subtropical open ocean sediment cores have yielded the first evidence for reduced nitrogen fixation in the surface nutrient-depleted regions during the glacials. These work, when compared with reconstructions of ice age denitrification, provides perhaps the strongest direct evidence to date for a longstanding hypothesis of a feedback between denitrification and nitrogen fixation across the global ocean that stabilizes the size of the ocean nitrogen reservoir.

Iron fertilization has previously been suggested as a possible cause of the lower CO_2 levels that occur during ice ages. We analyzed fossils found in deep sea sediment — deposited during the last ice age in the Subantarctic region and central equatorial Pacific — with the goal of reconstructing past changes in the nitrate concentration of surface waters and combining the results with side-by-side measurements of dust-borne iron and productivity. We found that in the Subantarctic region, nitrate concentrations indeed declined during the cold periods when iron deposition and productivity rose, in a manner consistent with the dust-borne iron fertilization theory, however, higher iron deposition in the equatorial Pacific did not lead to any apparent increase in productivity or nutrient uptake. The results suggest that while iron fertilization in the ice age Southern Ocean may contribute to the CO_2 drawdown, depletion in the Southern Ocean nutrient (i.e. N, P) concentration may reduce the potential impact of iron fertilization in other parts of the ocean.



"Extreme Solar Wind – Planetary Coupling at Mercury"

James A. SLAVIN
University of Michigan

11 August, Friday
MR331, Level 3
11:00 – 11:45

Abstract

Mercury's magnetosphere is formed by the interaction of the solar wind with its small (~ 200 nT– RM^3) intrinsic magnetic field. The mean altitude of the subsolar magnetopause is only ~ 0.5 RM. Induction currents in Mercury's highly conducting iron core resist the compression of the magnetosphere during coronal mass ejections. The contribution of these induction currents has been observed to increase the planetary magnetic moment by as much as ~ 25% (to ~ 250 nT– RM^3). Although the weak conductivity of Mercury's regolith severely limits field-aligned current intensity, Region 1 currents driven by the solar wind interaction have been measured with intensities up to several tens of kilo-Amperes. These currents flow radially through Mercury's thin (~ 400 km) regolith to close across its iron core.

Magnetic reconnection at Mercury's magnetopause is far more frequent and intense than at Earth. The underlying reason is the low Alfven Mach number of the solar wind at Mercury. Under these upstream conditions, a thick plasma depletion layer forms adjacent to the magnetopause and it enables fast, symmetric reconnection, even for small magnetic shears. "Showers" of flux transfer events (FTEs) consisting 100+ small flux ropes are seen during a single magnetopause traversal. These FTEs are encountered near or above the magnetopause and they connect to the cusp plasma filaments within the magnetosphere. These cusp filaments are formed by reconnection-driven solar wind inflow and they map to Mercury's surface in the vicinity of the cusps. During deep erosion events the rate of transfer of magnetic flux from the dayside magnetosphere is so great that the dayside magnetosphere disappears and the solar wind has direct access to the surface on Mercury's dayside.

Mercury's surface-bounded exosphere is maintained by sputtering and other surface interactions that eject neutrals from the regolith. The direct access of the solar wind to the surface via cusp filaments and deep erosion events is expected to enhance sputtering and it may explain the exospheric variability observed by ground-based telescopes. The plasma within Mercury's magnetosphere is primarily of solar wind origin (H^+ and He^{++}) with Na^+ and other heavy planetary ions, derived from the exosphere, making up ~ 1 to 10% of the magnetospheric plasma. H^+ and Na^+ injected into the cusp by dayside reconnection are observed to mirror and enter the high- latitude magnetotail where they form the plasma mantle. Kelvin-Helmholtz waves on the magnetopause are observed at all of the planets. However, in the case of Mercury these waves are found primarily on the dusk-side magnetopause. The reason for this curious asymmetry is not understood, but the possible explanations all involve the dynamics of the Na+ ions at the magnetopause.

Magnetic flux loading and unloading of Mercury's magnetotail is observed with durations of ~ 2 to 3 mins and amplitudes up to a factor of 2. These cyclic changes in magnetospheric configuration at Mercury strongly resemble the substorms seen at Earth. Early in the unloading phase the near- Mercury magnetic field is observed to dipolarize and flux ropes form in the cross-tail current layer just as seen during terrestrial substorms. Energetic particle acceleration in the Earth's magnetotail is a defining feature for magnetospheric substorms. Charged particles, especially electrons, are accelerated in the vicinity of reconnection X-lines, at the leading edges of dipolarization fronts and within magnetic flux ropes in the magnetotail. Although the situation at Mercury and Earth differ with respect to the final energies attained, similar charged particle acceleration processes appear to operate within both magnetospheres.



"On the Importance of Self-Secondaries"

Zhiyong XIAO
China University of Geosciences,
Macau University of Science and Technology and
University of Oslo

11 August, Friday
MR331, Level 3
11:45 – 12:30

Abstract

Secondary craters (i.e., secondaries) are mainly located beyond the continuous ejecta deposits of their parent crater. Self-secondaries are a theoretical secondary crater population that is located on the continuous ejecta deposit of the parent crater. The possible existence of self-secondaries was first proposed by Shoemaker et al. (1969) to explain the cm–m crater density difference on melt deposits and normal ballistic ejecta deposits on the rim of the lunar Tycho crater. However, images obtained by later lunar orbiters (1965–2009) have relative low resolutions compared to the size of possible self-secondaries. Therefore, the existence, much less importance, of self-secondaries has long been ignored. The new generation of high-resolution images (0.5 m/pixel) obtained by the Lunar Reconnaissance Orbiter Camera (LROC) permit detailed study on the population of small impact craters (D<100s m) on the Moon. Since 2009, crater density differences at various locations of continuous ejecta deposits have been confirmed at both Tycho and several other Copernican-aged complex craters (e.g., Giordano Bruno, Aristarchus, Kepler, Copernicus). However, debate about the existence of self-secondaries started at the same time, because different target properties were interpreted to be the major cause for the observed crater density differences. Whether or not self-secondaries dominate small crater populations on continuous ejecta deposits is critical for: (1) completely understanding the cratering physics, because conventional impact ejection model (e.g., Z-model) does not predict near-vertically launched, thus late landed ejecta; (2) better calibrating the crater chronology function, since 4 of the 11 calibration point on the lunar crater chronology function are for Copernican craters and the crater densities were measured on continuous ejecta deposits.

Using high-resolution images, locations where self-secondaries were initially proposed were revisited, and cross comparisons for the size-frequency distribution of crater populations over different ejecta facies suggest that self-secondaries dominate the ejecta deposits of Tycho. Indeed, self-secondaries can cause fast equilibrium on ballistic ejecta deposits. Furthermore, different target properties between the ballistic ejecta deposits and melt pools of Tycho cannot account for the observed crater density differences. This is confirmed by numerical simulation that studied the effect of different target properties on crater size-frequency distribution. The dominance of self-secondaries on continuous ejecta deposits of fresh complex craters is also confirmed on Mercury. Forming self-secondaries requires near-vertical ejection angles and early ejection during the cratering event. Shock mechanics suggest that ejecta forming self-secondaries are launched from a shallow target zone by impact spallation, where rarefraction waves arrive earlier than the peak of shock waves. This stage predates the major impact excavation stage. Therefore, forming self-secondaries should be an inherent product of any impact cratering event. A systematic study of small crater populations around several lunar Copernican craters reveals that the predominance of self-secondaries would decrease with time since subsequently accumulated craters would gradually take the majority of the small crater populations on the continuous ejecta deposits.



"Reconnection, Global Flux Transport and Energy Conversion at Earth's Magnetotail"

Vassilis ANGELOPOULOS
University of California, Los Angeles

08 August, Tuesday
MR331, Level 3
11:00 – 11:45

Abstract

It has been known that convection in Earth's magnetosphere is reconnection-driven. However, magnetotail reconnection, required to complete flux circulation to the dayside, is theoretically prohibited in the presence of a magnetic field component, Bz, normal to the sheet with two exceptions: One is driven reconnection by external (solar wind) impulses or high dynamic pressure that reduce the field locally; the other is spontaneous reconnection in quasi-static equilibria that gradually develop a positive Bz gradient away from the planet. Recent observations suggest that both scenarios can operate and both result in inherently transient, localized reconnection bearing all the hallmarks of reconnection in the absence of Bz (such as peak reconnection rates, Hall current system, parallel electric fields, and particle heating up to a small fraction of the available magnetic energy). Under substorm conditions the reconnection site is initiated near Earth where the low lobe density generates flux tubes with low entropy, able to penetrate to the inner magnetosphere and around the Earth to replenish the flux. It moves down-tail as convection near Earth is gradually prohibited by the dipolarized (low entropy) flux there. This tailward motion fosters the growth of another substorm cycle when reconnection is choked by the inability of the outflows to move Earthward by interchange motions. Under storm conditions reconnection starts even closer to Earth despite the strong Earth dipole. This is enabled by the solar wind dynamic pressure that leads to a local minimum in Bz there. Despite the favorable conditions, though, it appears reconnection there too is transient and does not fully convert the magnetic energy to heat. In all cases it is evident that reconnection is not the location of dominant magnetic energy conversion but a facilitator of energy conversion further downstream by field-line contraction.



"The Solar Transition Region"

Hui TIAN
Peking University

08 August, Tuesday
MR331, Level 3
11:45 – 12:30

Abstract

The solar transition region (TR) is the temperature regime from roughly 0.02 MK to 0.8 MK in the solar atmosphere. It is the transition layer from the collisional and partially ionized chromosphere to the collisionless and fully ionized corona. The TR plays an important role in not only the mass and energy transport in the solar atmosphere, but also the initiation of solar eruptions. Most of the TR emission falls into the FUV/EUV range (400Å–1600Å). Imaging and spectroscopic observations in this spectral range are the most important ways to obtain information about the physics of the TR. Static solar atmosphere models predict a very thin TR. However, recent high-resolution observations indicate that the TR is highly nonuniform and magnetically structured. I will summarize some major findings about the TR made through imaging and spectroscopic observations of the SOHO, SDO and IRIS missions. The emphasis will be put on the transition region dynamics above sunspots and in coronal holes. These existing observations have demonstrated that the TR may be the key to understand coronal heating and origin of the solar wind. Future exploration of the solar TR may need to be focused on the upper TR, since the plasma in this temperature regime (~0.1 MK–0.8 MK) has never been directly imaged before. High-resolution imaging and spectroscopic observations of the upper TR will not only allow us to track the mass and energy from the lower atmosphere to the corona, but also help us to disentangle various initiation and heating mechanisms of solar flares and coronal mass ejections.



"Mineral Sciences and Fukushima Incident"

Tsutomu SATO
Hokkaido University

10 August, Thursday
MR331, Level 3
11:00 – 11:45

Abstract

In March, 2011, the fourth largest recorded earthquake occurred offshore from the Tohoku region of Japan. After the earthquake, the high tsunami waves hit the Fukushima Daiichi Nuclear Power Station (FDNPS) of the Tokyo Electrical Power Company (TEPCO). All electric power was lost to units 1 through 4 in FDNPS within fifteen minutes after the first tsunami wave hit the station, and this led to a blackout of the station, followed by a series of hydrogen explosions in the FDNPS. The series of hydrogen explosion resulted in the negative legacies such as the damaged nuclear power station, melted fuel debris, contaminated water, soils, vegetation and debris, secondary wastes from on-site water treatment, and huge volumes of the Cs-contaminated soil from decontamination operation off-site. The author, as an environmental mineralogist, has been involved in the countermeasure activities against the negative legacies of the accident. In this lecture, the author shows how applied mineralogy has been and will be an important component in the recovery of areas surrounding FDNPS and tries to promote the social and economic impacts of mineralogy based on the author's experiences after the accident.

On site, the contaminated water initially contained high concentrations of non-radiogenic Na, K, Mg, Ca, Sr, and Cl, which originated from seawater, as well as radioactive Sr, Cs, and I, which came from the damaged fuel. TEPCO started operating the treatment system with Cs/Sr removal system including synthetic zeolite and ferrocyanide compound for Cs, and crystalline silicotitanate for Sr due to their high selectivities. Other treatment facilities such as the multi-nuclide removal facility (Advanced Liquid Processing System: ALPS) have also operated to reduce the radioactivity of the 62 nuclides to below the limit specified by the Japanese reactor regulation, the system produces different kinds of spent slurry and adsorbents. Contribution from mineralogists and materials scientists is desired in the selection and optimization of materials used in the above system for efficient and economical treatment of water, as well as the safe storage and disposal of spent adsorbents.

Off site, because of aggressive decontamination efforts, huge volumes of the contaminated soil have been collected and placed under interim storage. The estimated volume of contaminated soils is approximately 22 million m3. With this volume, it is difficult, both economically and logistically, to find appropriate disposal sites. Thus, the challenge is to reduce the volume of the contaminated soil destined for actual disposal, and to develop technologies to separate highly radioactive materials from bulk soils. In order to meet these challenges, identification of the host mineral and understanding the relationship between Cs and host minerals are necessary. This scientific information would be also useful in the safety assessment of interim storage sites and the reuse of the separated soils with low radioactivity.

The disaster at FDNPS has proven to be technically, politically, economically, and emotionally costly. From the view of commonality, recovery from the accident at FDNPS needs to accelerate to alleviate lingering personal and economic hardships for the people affected by the disaster as well as for the people involved in recovery efforts. Mineralogists must also understand that efforts in the water treatment and the decontamination should not only be conducted in scientifically sound ways but also in ways that are acceptable to the public. If mineralogists do so, they can ensure greater public understanding and support for the work of mineralogists, allowing them to thrive and continue their research.



"The Impact of Fault Geometry on Megathrust Ruptures"

Judith HUBBARD
Nanyang Technological University

10 August, Thursday
MR331, Level 3
11:45 – 12:30

Abstract

What controls the size and shape of earthquake ruptures? In strike-slip settings, geometrical barriers such as bends and step-overs have been interpreted to act as persistent barriers to rupture, but for thrust faults the role of subsurface geometry is less well known; often the distribution and size of rupture are attributed to changes in fault zone properties.

The 2015 Mw7.8 Gorkha earthquake in Nepal provides a case study to evaluate the impact of fault geometry. Using published geological maps, we have developed a new structural cross-section and a 3D, geologically informed model of the Main Himalayan Thrust, which sourced the rupture. Comparing our model to a detailed slip inversion shows that the slip patch in the earthquake closely matches an oval-shaped, gently dipping fault surface bounded on all sides by steeper ramps. The Gorkha earthquake rupture seems to have been limited by the geometry of the fault.

Similar geometric structures (gently dipping décollements separated by steeply dipping ramps) can be found in other convergent settings, onshore and offshore. We show examples of such geometries from other parts of the Himalayan fault system, the Longmen Shan in China, and the Nankai Trough. Given that fault geometry was the primary control on the Gorkha earthquake, it is likely that geometry could play an important role in segmenting earthquakes in these regions. Adequately constraining megathrust fault geometries around the world may help us to better assess the sizes and locations of future earthquakes.



"Mitigation of Ionospheric Scintillation Effects for Precise GNSS Positioning"

Sreeja VADAKKE VEETTIL
University of Nottingham

08 August, Tuesday
MR331, Level 3
09:45 - 10:30

Abstract

Global Navigation Satellite Systems (GNSS, such as Global Positioning System (GPS), GLONASS, Galileo, Beidou) underpin a number of modern life activities, such as air/marine transport, autonomous vehicles/machinery control and in areas such as construction, agriculture and offshore operations. Techniques such as RTK (Real Time Kinematic) and PPP (Precise Point Positioning), exploiting the precision of the GNSS signal carrier phase measurements, are at the core of these applications and are especially sensitive to ionospheric perturbations. In particular, a phenomenon known as ionospheric scintillation, characterised by fluctuations in signal amplitude and phase, may seriously disrupt satellite tracking and degrade system accuracy, reliability and integrity. The occurrence of scintillation shows large variability with local time of the day, season, latitude, longitude, as well as solar and geomagnetic activity. Strong scintillation frequently occurs over the equatorial/low latitudes, it is moderate to strong over the high latitudes and almost absent over the mid latitudes. Polar and high latitude scintillation is associated with auroral precipitation and instability of structures formed on polar cap patches, and effects are enhanced during geomagnetic disturbances. Equatorial/low latitude scintillation, on the other hand, is not fully driven by solar transients and often occurs during the post sunset hours, even on geomagnetically quiet days. Over these regions, scintillation occurrence is associated with the instability of structures on the edges of the Equatorial Ionization Anomaly (EIA). Mid latitude scintillation occur much less often, usually only in association with strong geomagnetic storms near solar maximum.

Although GNSS is routinely used in smartphones and in-car navigation with an accuracy of a few meters, it can deliver centimetres in real time if advanced techniques and error modelling are employed. Enhancing the real time accuracy of GNSS is key to supporting a range of applications and, more importantly, to inspiring new ones that can arise when this is fully developed. Currently, there are two specific candidate GNSS techniques that can meet this real time demand, namely PPP and RTK. However, RTK, PPP and related techniques, especially at low latitudes, can be significantly handicapped by scintillation that is frequently observed in this region. Strong scintillation is capable of leading to loss of GNSS satellite signal tracking and especially phase tracking, which is crucial to high precision professional applications relying on a real time capability. On the other hand, low to moderate scintillation introduces additional biases appearing as double difference residual errors. The situation is particular adverse in Brazil, a country located entirely across the magnetic equator, where the ionospheric behaviour is particularly dynamic and unpredictable. Following a brief introduction, this lecture will present some significant results on the impact and mitigation of scintillation effects on high accuracy GNSS positioning techniques over the equatorial and low latitude region of Brazil.

Special Lecture by 2017 Axford Medal Award Winner



"Challenges and Perspectives in Regional Climate Modeling"

Dong-Kyou LEE
Korea Meteorological Administration and Seoul National University

11 August, Friday
Nicoll Room, Level 3
16:00 - 16:45

Abstract

Regional climate model (RCM) has become an important tool to produce fine-scale climate change variability and projection because RCMs with detailed physical processes and higher resolution can generate added values that cannot be resolved by relatively low-resolution global climate models (GCMs). Since the late 1980s, a number of challenges and efforts have been devoted to RCM development, evaluation, and application.

Many RCMs tend to reproduce regional climates by reducing model systematic errors. In particular, in regional climate simulations over Asia, systematic errors can be generated by natural characteristics of complicated topography, land-surface conditions, local ocean conditions, convection, dust and aerosol, and seasonal monsoon circulation. To reduce the systematic errors, various techniques and methods have been applied to the development of RCMs. An approach is to employ the spectral nudging technique as lateral boundary condition for long-term integrations to prevent RCM from climate drift. To represent realistic interactions among earth system components, sophisticated land surface models and slab/full ocean models are implemented into RCMs. In addition, physical parameterization schemes incorporated in numerical weather prediction models are modified or optimized for long-term RCM simulations.

Nevertheless, RCMs still have uncertainties cascading from GCMs or imperfect numerical model. Recently, multi-model ensemble methods have been developed through international programs such as RMIP (Regional climate Model Intercomparison Project) and CORDEX (COordinated Regional climate Downscaling EXperiment) to evaluate and reduce uncertainties. Sources and ranges of uncertainty in climate change projections, and adaptation and mitigation strategies to reduce the risk induced by climate change on regional scale are connected in the programs. There are attempts to develop regional earth system models that include two-way interactions among atmosphere, land, and ocean as well as aerosol and dynamic vegetation changes. Convection-permitting RCMs with resolution of less than 5km can lead to advanced simulations of high-impact weather events such as heavy rainfall and tropical cyclone. The upscaling effect from RCM to GCM may improve uncertainties induced by lateral boundary condition.



"Remote Sensing of Aerosols, Air Quality and Assessment of their Global and Regional Impacts"

Jack A. KAYE
AOGS Honorary Member
Earth Science Division, NASA Headquarters

11 August, Friday
Nicoll Room, Level 3
16:45 - 17:30

Abstract

Atmospheric aerosol particles represent an important component of the Earth system that have both natural and anthropogenic sources. In addition, aerosol particles have impacts on multiple spatial scales for issues as diverse as human health and global climate. Until a few decades ago, little was known about their global distribution and their properties, but with advances in remote sensing from the Earth's surface, satellites, and airplanes, as well as related advances in in situ measurement and global modeling, we now have a much better idea as to the distribution, properties, and effects of aerosols regionally and globally. Aerosol particles are important contributors to local air quality and can affect the earth's energy budget directly through light scattering and absorption and indirectly by affecting cloud optical properties. Aerosol particles have been and continue to be studied in the context of their atmospheric precursors and the processes involved in their creation, transport, and removal from the atmosphere. In this talk, a summary of recent advances by satellite-based sensors such as CALIPSO, MISR, MODIS, OMI, OMPS, SeaWiFS, TOMS, and VIIRS, together with surface-based observations from networks such as AERONET and MPLNet and data from field campaigns in the US and elsewhere (e.g., DISCOVER-AQ, KORUS-SQ, SEAC4RS) will be presented, along with future opportunities, including those from NASA's forthcoming MAIA satellite.

Public Lecture 1



"Reviewing and Visualising Interaction Relationships for Natural Hazards"

Bruce D. MALAMUD
King's College London

09 August, Wednesday
MR331, Level 3
16:00 – 16:45

Abstract

This talk discusses the potential of one natural hazard triggering or increasing the probability of another natural hazard occurring. For example, a volcanic eruption as a primary hazard can trigger many different secondary hazards, including earthquakes, tsunamis, landslides, floods, lightning and extreme temperatures, with each of these in turn triggering or increasing the probability of other hazards, thus resulting in multi-hazard cascades. Constraining hazard interactions is particularly relevant when considering countries which experience a high frequency and breadth of natural hazards. In this talk, we present case examples of potential interaction relationships between natural hazards. We then consider 21 natural hazards, drawn from six hazard groups (geophysical, hydrological, shallow Earth, atmospheric, biophysical, and space hazards). Using a wide-ranging review of grey- and peer-review literature, we present a broad overview, characterization, and visualization of 90 interaction relationships between these 21 natural hazards. A synthesis is presented of the identified interaction relationships between these hazards (also termed 'multi-hazards), using an accessible visual format particularly suited to end users. Our approach allows those undertaking research into single hazards to place their work within the context of other hazards. It also communicates important aspects of hazard interactions, facilitating an effective analysis by those working on reducing and managing disaster risk within the policy and practitioner communities. Knowledge of these potential interactions reinforces holistic or multi-hazard approaches to natural hazard assessment.



"Habitability of the Solar System in Space and Time"

James GREEN
Planetary Science Division, NASA Headquarters

10 August, Thursday
MR330, Level 3
14:00 - 14:45

Abstract

About 4.5 billion years ago a supernova exploded causing a nearby interstellar cloud to collapse creating our solar system. What emerged first was our sun blowing the lighter gases outward, allowing the heavier elements to remain in the inner solar system forming our terrestrial planets. We are so lucky to have Venus and Mars, two terrestrial planets that are very similar to the Earth, close in size, with significant atmospheres. Planetary scientists have developed the capability to model how these planets have evolved since their birth and what may happen to them in the distant future. Comparative planetology tells us that terrestrial planetary atmospheres have been in a process of continual change based on the extent of their sources and sinks. We are finding some startling parallels in which both Venus and Mars had environments that would have been habitable for life, as we know it, in their distant past. In addition, we are finding Europa and Enceladus are thought to have an ocean of liquid water beneath their icy crust surface in contact with mineral-rich rock, and may have the three ingredients needed for life as we know it: liquid water, essential chemical elements for biological processes, and sources of energy that could be used by living things. These discoveries are helping our planetary scientists to develop instruments and missions that look for life in our solar system.

Education Outreach: School Talks

Education Outreach is an important mission of the AOGS. This year, the program includes two workshops, a field trip and a series of talks to Singapore schools as well as organized student visits to the exhibition. Except for the field trip, no fee will be charged.

1. School Talks

The proposed duration is 25 minutes per talk, in succession with opportunities for floor participation. Audience will be mainly high school students and the topics are based on the Singapore schools' curriculum. The talks will be held in schools.

07 August, Monday | School of Science & Technology | 15:00 - 16:00

a. "The Forests of Singapore: Seeing the Beauty in the Trees (and much more)"
Shawn Kaihekulani Yamauchi LUM, *Nanyang Technological University*

Dr. Shawn Lum is a tropical rainforest ecologist. He was born in Hawaii and was educated at Harvard University and obtained his PhD from the University of California, Berkeley in 1993. Dr Lum joined the Natural Sciences and Science Education faculty at the National Institute of Education, Nanyang Technological University before moving to the Asian School of the Environment at NTU in 2015. Dr Lum is the current President of the Nature Society (Singapore) and also volunteers with the Jane Goodall Institute (Singapore). His main interests include rainforest ecology and the diversification of tree species. He also does work in conservation biology and environmental education, and interacts with a wide range of people, from fellow researchers to naturalists, primary school pupils, and educators.

Abstract
Singapore, despite its small size, is home to a large variety of plant species. The island is home to over 2000 native plants, found across a number of distinctive habitats from coastal forests and mangroves, to lowland rainforest and freshwater swamp forests. Rapid, large-scale habitat loss early beginning 200 years ago led to considerable loss of Singapore's flora, but why most of Singapore's native plants remains and why it is surprisingly resilient will be discussed. Singapore has experienced an awakening of interest in native plants, but its flora is even better appreciated in a regional context. How can Singapore work with regional and international counterparts to achieve local and regional conservation goals, and to promote sustainable development with a green focus? Finally, how can an understanding of geosciences help us to better understand, protect, and cherish our green heritage?

b. "Marine Biodiversity: Singapore's Hidden Treasure Chest"
Tai-Chong TOH, *National University of Singapore*

Dr. Toh is a marine biologist and he has worked on tropical coral reef systems since 2010. He received his BSc in Biological Sciences from Nanyang Technological University (NTU) and completed his PhD in Life Sciences from National University of Singapore (NUS). He is passionate about our oceans and has dedicated his research to coral reef conservation and restoration. His experience in working with local communities in Southeast Asia has shown him how environmental protection and livelihoods are interdependent. This has fueled his drive to promote environmental education.

Tai Chong is currently a lecturer in the College of Alice and Peter Tan (CAPT), NUS and he is an advocate for lifelong learning. Through his appointment in CAPT, he hopes to share his passion for marine science with the student community. More importantly, he hopes to inspire his students to be future game - changers to protect our fragile natural habitats. Tai Chong also holds a joint position as a Rese arch Affiliate with the Tropical Marine Science Institute (TMSI), NUS. Apart from conducting research in TMSI, he has worked extensively with local and overseas high school students to nurture eco - literacy. By working with NGOs and businesses, he hopes to highlight Singapore's rich natural heritage and make nature more accessible to the community.

Abstract
Do you know that Singapore is located in close proximity to the Coral Triangle, an internationally recognized region that supports the highest number of marine species? Therefore, its not surprising that in our limited seascape, our waters support over one - third of the world's coral species and half of the world's seagrass species.

In this talk, I will highlight the incredible biodiversity found in our waters. From the rediscovery of sponges that were once thought to be extinct since the 1900s, to the coral reefs that have survived the decadal impacts of coastal development in Singapore, I will share some of our local researchers' recent discoveries that have surprised the local and international scientific communities.

In the second part of my presentation, I will feature some of the ground - up initiatives started by our local community groups and how our knowledge in marine science is used to nurture eco - literacy in Singapore. I will also share my experience on community engagement and how scientists now play an important role helping the government communicate their scientific policies to the public and businesses.

08 August, Tuesday | School of Science & Technology | 13:00 - 14:00

a. "Earthquake Waves"
Shengji WEI, *Nanyang Technological University*

Dr. Shengji WEI studied earthquakes sources with seismic waveform and other geodetic observations, including SAR, InSAR and GPS, as a graduate student at University of Science and Technology of China. His career followed by a postdoc period at the Seismological Laboratory of California Institute of Technology, where he expanded his research interest to include strong ground motion simulation of large earthquakes and high-frequency waveform modeling. As a faculty at Asian School of Environment and principle investigator at Earth Observatory of Singapore, Nanyang Technological University, his current studies are focused on real-time seismology, large earthquake finite fault modeling, waveform modeling of earthquakes and velocity structures, and unveiling their relations with earthquake physics and tectonics.

Abstract
Seismic hazard possesses one of the deadly threads to human society. Earthquakes are the sudden breakdown of the crustal rocks, as a result of over stressing by the loading of relative plate motions. The rapid breakdown of the faults produces strong ground shaking that can damage buildings, bridges and other infrastructures, resulting in heavy economic and life losses. To adequately prepare for future earthquakes, we have to better understand the physics of earthquakes and the seismic waves they generate. In this presentation, I will summarize several key aspects of earthquake physics and introduce a few modern approaches to represent earthquake source as well as some basic features of the ground shaking.

On the other hand, the seismic waves generated by the earthquakes are the best proxies for us to better understand the structure beneath the surface of earth, since seismic waves are the most efficient and accurate physical measurements we can have to reveal the complex structure of the earth. For example, using the seismic waveform data, seismologists discovered the existence of the liquid outer core of the earth about 100 years ago. In this talk, I will use a few examples to demonstrate how and what we can learn from the seismic data to better reveal the fascinating structure of the earth.

b. "Volcanoes and Singapore?"
Adam SWITZER, *Nanyang Technological University*

Dr Switzer is an Associate Professor and the Associate Chair (Academic) at the Asian School of the Environment (ASE) and a Principal Investigator at the Earth Observatory of Singapore (EOS), both at Nanyang Technological University. Adam is an Executive Council member of the Asia Oceania Geoscience Society and a member of the editorial board of peer review journals Geoscience Letters and Journal of Coastal Research. He has authorship on >60 peer-review publications, including lead academic publications in J. Geophysical Research, Geophysical Research Letters, Bulletin of American Meteorological Association, Scientific Reports and Nature Communications. His research includes storm surges, tsunamis and sea level along with multi-hazard interactions. Research subthemes include sedimentary geology, time series analyses, mathematical models, complexity, confronting models with data, and the communication of science to user groups.

Abstract
Around 10% of the world's population (~800 million people) live within 100 km of a potentially active volcano. Volcanic areas are becoming ever more populated and urbanised, and the potential for volcanic disasters is therefore increasing. While there are no volcanoes in Singapore, we do lie in one of the most volcanically active areas in the world: more than three-quarters of the world's volcanic threat is in Southeast Asia (Indonesia and the Philippines). Volcanic ash from the 1991 eruption of Pinatubo reached Singapore, nearly 2,400 km away. Historically, human and economic losses from volcanic eruptions have been smaller than those from other natural hazards. However, many volcanoes are capable of eruptions much larger than those witnessed in historic times. Very large volcanic eruptions can threaten the global environment and civilisation. This talk will provide an overview of volcanoes and volcanic eruptions, with a particular focus on the hazards and risks they pose for society and what is being done to minimize them.

08 August, Tuesday | Nanyang Polytechnic | 16:00 - 17:00

a. "History of the Asian Monsoon"
Xianfeng WANG, *Nanyang Technological University*

Xianfeng Wang is a Nanyang Assistant Professor at the Earth Observatory of Singapore and Asian School of the Environment, Nanyang Technological University. He is a geochemist by training, and seeks to establish and understand the relationship between late Pleistocene and Holocene hydro-climate changes in the tropics and that of the other parts of the world. He also investigates the influence of tropical climate changes on human society, or if it is vice versa. To achieve this, Wang and his isotopic geochemistry team work with both terrestrial and marine sediment samples from the tropics, including speleothems and fossil corals. Wang completed his Post-Doctoral Fellowship at the Lamont-Doherty Earth Observatory of Columbia University, USA, after obtaining his PhD from the University of Minnesota.

Abstract
The Asian monsoon is the most gigantic monsoon system in the world, and plays a critical role in the global climate system. The monsoon rains are vital for the livelihood of about 2/3 of world population living in the Indian subcontinent, Southeast Asia and eastern China. The wax and wane of the Asian monsoon however can disturb the region with severe flooding and droughts, and can cause persistent challenges to the limited water resources and food security in Singapore.

In this talk, I will explain the origins of the Asian Monsoon and fundamental mechanisms of monsoon variability that can be linked to tectonic movements, the Earth evolving orbit, and ocean-atmosphere circulations elsewhere in the world. I will show in examples how we use stable and radiogenic isotopes in cave carbonate deposits to study past monsoon changes, in particular during the two recent time windows, the past 20,000 years and the past 2,000 years, respectively. The potential response of the Asian monsoon to anthropogenic forcing will also be introduced.

b. "Future Climate Change over Southeast Asia: Alerting or Alarming?"
Sri Vijaya RAGHAVAN, *National University of Singapore*

Dr. Srivatsan obtained his PhD from the University College London (UCL), London in 2008 and since then, has been working at the Tropical Marine Science Institute (TMSI) of the National University of Singapore (NUS). His research interests are on tropical climate changes and variability, regional climate modelling and climate impacts. He has worked as a Lead Climate Modeller in major government projects (NEA and BCA) commissioned to TMSI. His other research interests are in weather forecasting, radar nowcasting, food security, and sustainability and risk assessments. He is currently the Treasurer of the Asia Oceania Geosciences Society and apart from his academic interests, enjoys outreach programs and teaching. He has represented Singapore at the IPCC plenary sessions and in a few ASEAN meetings.

Abstract
Climate Change is real. Climate science has advanced rapidly over the recent years as increasing evidence of anthropogenic influences on climate change has been reported by the Intergovernmental Panel on Climate Change, IPCC. A deeper understanding and quantification of climate processes and their incorporation in climate models have progressed rapidly especially since the inception of IPCC in 1988. There has always been uncertainty in understanding a system as complex as climate and equally climate change, but there is now stronger evidence that significant global warming is occurring. The evidence comes from direct measurements of rising surface air temperatures and subsurface ocean temperatures and from phenomena such as increases in average global sea levels, retreating glaciers and changes to many other physical and biological systems. Southeast Asia is a region which is under studied when it comes to climate sciences. Unlike the scientific and technical expertise in countries such as the USA, UK, Australia and New Zealand, climate research studies in Southeast Asia remains challenging. In addition to lack of sufficient scientific contributions, Southeast Asia has limitations in available climate data, Dense and robust observational networks and technology that support such an intricate science as that of climate. This talk will present some of the recent scientific findings of the possible climate changes in the future over Southeast Asia and in general, will discuss the science of climate change, how climate is modelled, the challenges we have in interpreting climate changes, climate scenarios and where the next generation of climate sciences is heading towards.

11 August, Friday | Bukit Panjang Government High School | 15:00 - 16:00

a. "Future of the Oceans"
Patrick MARTIN, *Nanyang Technological University*

Originally from central Germany, Dr. Martin's early life had very few connections to the sea. On moving to northern England to complete a degree in Biology, his interests focused at first on Ecology and then on Biogeochemistry – the science of how organisms impact and interact with the chemistry of their environment, and how these interactions drive the vast global cycling of elements such as carbon, nitrogen, and phosphorus. He then moved to the UK's National Oceanography Centre to undertake his PhD research on carbon cycling in the open ocean. Upon completing his PhD in 2011, he first joined Woods Hole Oceanographic Institution (USA) for an 18-month post-doctoral fellowship, and then moved to the Earth Observatory of Singapore for further post-doctoral work, after which he joined the faculty of the Asian School of the Environment in 2016. He is now building a research group to study carbon and nutrient biogeochemistry in South-East Asian coastal seas, which are still a poorly-understood but fascinating ecosystem.

Abstract
The world's oceans are a vital part of the Earth system, and are also of substantial economic importance to our societies. As we enter the Anthropocene, humans are changing the physics, the chemistry, and the biology of the oceans both in coastal waters and far offshore. This talk will look at some of these changes and their possible consequences. I will also show how oceanographers go about studying these scientific problems, and will consider how we might be able to mitigate our impacts so that the oceans' future is one that continues to benefit us humans.

b. "Lake Records of Climate Change"

Chris GOURAMANIS, *National University of Singapore*

Dr Chris Gouramanis is an Assistant Professor within the Department of Geography at the National University of Singapore where he examines the role of droughts, floods, storm and tsunami on modern and past lake and coastal environments. After finishing a BSc (Hons) at La Trobe University and a second BSc at The Australian National University, he completed a PhD study of the palaeoclimate of southern Australia as recorded in the microfossils preserved in lake sediments. Following his PhD, he spent nine months at the Institute of Marine Resources and Environment in Hai Phong, Vietnam developing a Geographical Information System to enable better management of the UNESCO-listed Ha Long Bay. Upon completion of this project, he returned to Australia and worked in the Department of Sustainability, Environment, Water, Population and Communities developing tools to protect Australia's natural aquatic ecosystems. He later returned to academia at Nanyang Technological University as a post-doctoral research fellow and senior post-doctoral research fellow where he examined modern and past coastal hazards (storms and tsunami) from India, Thailand, Vietnam and Indonesia.

Abstract

To understand our present climate and the changes that humans are causing, it is imperative that we know how past climate has changed. Although many environments record past climate change, e.g. oceans, corals, cave deposits and tree rings, lakes offer an opportunity to understand how climate has impacted one of man's primary needs – accessible fresh water.

The floor of a lake is composed of a stacked sequence of sediments that have accumulated over time. These sediments record both what the lake has experienced, that is, what has happened within the lake, but also what the environment surrounding the lake has experienced.

Under the effects of a changing climate, the water of a lake will change its chemistry, with drying conditions resulting in the lake water becoming more shallow and salty and in wet conditions the water becoming less salty and deeper. This change in saltiness dictates what sorts of animals and plants can survive in the lake. Many of these plants and animals leave fossils as they complete their life cycles and these fossils can indicate the water conditions when the animals and plants were alive. Similarly, the animals and plants take up the chemistry of the water and store these elements in their body walls. Geochemical analysis of plant and animal fossils can also provide detailed information about changes in water chemistry through time.

Climate change can significantly affect the landscape surrounding lakes, causing plant communities to change, forest fires to burn vegetation and flooding that brings sediment from different sources into the lakes. All of these changes can be recorded in lake sediments.

In this presentation, I will discuss a few examples of these processes and show how we can reconstruct past climate change, and in particular droughts and floods using records from lakes.

08 August, Tuesday | Nanyang Polytechnic | 17:00 – 18:00
11 August, Friday | School of Science & Technology | 14:00 – 15:00

"**An Overview of NASA Earth Sciences: From Satellites to Computer Models**"
This will be the main theme of the talks but the emphasis for each will vary according to the schools' requests.

Steven E PLATNICK, *Earth Sciences Division, NASA*

Steven Platnick's research includes theoretical/experimental studies of satellite, aircraft, and ground-based cloud remote sensing. He has been involved extensively with remote sensing field studies, including use of the MODIS Airborne Simulator instrument flown on the NASA ER-2 along with flight scientist roles in a number of field campaigns. He is a member of the MODIS and S-NPP Atmosphere Science Team working on operational cloud optical and microphysical products, as well as the MODIS Atmosphere Team Lead.

Platnick became a civil servant in the Climate and Radiation Branch in the Laboratory for Atmospheres in 2002 and then moved to the Earth Science Division in 2009. He has served as the head EOS Project Science Office since 2008, and as Deputy Director for Atmospheres in the Earth Science Division since January 2015. Prior to becoming a civil servant, Platnick was a research associate professor in the Joint Center for Earth Systems Technology, University of Maryland Baltimore County - an affiliation begun in 1996. During this time he led the development of a comprehensive set of graduate-level atmospheric physics courses within the Department of Physics of which he taught several. He previously held a National Research Council Research Associate position at the NASA Ames Research Center as well as a research and development position at the Hewlett-Packard Co. for six years. His work with Hewlett-Packard included two years as a visiting faculty in the Department of Electrical Engineering at North Carolina A&T State University.

He received B.S. and M.S. degrees in electrical engineering from Duke University and the University of California, Berkeley, respectively, and a Ph.D. in atmospheric sciences from the University of Arizona.

Abstract
Since its beginning in 1958, the mission of the U.S. National Aeronautics and Space Administration (NASA) has included "the expansion of human knowledge of the Earth".

The Earth is comprised of diverse systems (atmosphere, lithosphere, hydrosphere, cryosphere, and biosphere) that can interact physically, chemically, and dynamically with each other in complex ways. The goal of NASA's Earth science program is to further develop a scientific understanding of the Earth as an integrated system and its response to natural and human-induced changes. This is accomplished through a variety of measurements (satellite, airborne, ground-based), computer models, and related research activities. NASA efforts, in combination with the agency's domestic and international partners, improve our ability to predict climate change, forecast weather, and respond to natural hazards for the benefit of all. NASA will continue to pioneer the use of spaceborne technology and measurements to study the Earth in the coming decade.

NASA is committed to bringing information about its Earth science activities to the public, including students engaged in science and technical studies. This presentation will provide a broad overview of NASA Earth science efforts, discuss satellite orbit concepts, and show examples of satellite observations and modeling studies. A special emphasis with be on tropical cyclones. Satellite observations are essential for fully understanding the spatial organization and dynamics of these powerful storms.

2. Workshops

a. "Physical Modeling of Gps and Insar Data with Unicycle"

09 August, Wednesday | MR335, Level 3 | 16:00 – 18:00

About the Workshop

Several decades of space geodetic monitoring has brought a wealth of data documenting the cycle of strain accumulation and release around plate boundaries. The short-term tectonic deformation is well understood in terms of the activation of fault slip, viscoelastic flow in the lower crust and mantle and the diffusion of pore fluids. In this hands-on workshop, we will describe how to build physical models of plate boundaries strain evolution. We will describe from the ground up how to simulate postseismic deformation data, in particular, GPS and InSAR data. We will describe several cases of interest including the 2012 Mw 8.6 Indian Ocean earthquake, the 2015 Mw 7.8 Gorkha, Nepal earthquake and the 2009 Mw 7.8 Dusky Sound, New Zealand earthquake. We will first recall the main rheological assumptions: How does friction govern fault slip? How do creep mechanisms control viscoelastic flow? We will show how to simulate geodetic time series based on physical assumptions about stress release mechanisms. Finally, we will describe how to create numerical simulations of earthquake cycles. We will describe the basic characteristics of fault friction that allow earthquake ruptures to occur spontaneously. The workshop will be designed for geologists, and geodesists interested in earthquake mechanics who have limited experience in physics and programming. The simulations will be carried out in Matlab using the Unicycle software.

Organizers

Sylvain BARBOT, *Assistant Professor*
Asian School of the Environment, Nanyang Technological University
James Daniel Paul MOORE
Research Fellow, Nanyang Technological University

Dr Sylvain Barbot studied earthquake physics and geodesy at the Institut de Physique du Globe de Paris, France and at the Institute of Geophysics and Planetary Physics at the Scripps Institution of Oceanography. As a graduate, his research focused on transient lithosphere deformation following earthquakes on strike-slip faults. During his postdoc at the California Institute of Technology, he studied the dynamics of earthquake cycles using rate-and-state friction. Today, as a Nanyang Assistant Professor at the Earth Observatory of Singapore and the Asian School of the Environment, his research focus is to understand the physics of crustal and lithosphere dynamics across many temporal and spatial scales. His main interests are to understand the role of geometry and chemistry and of fault and off-fault deformation in the generation of earthquakes. He is also developing technology to conduct geodetic surveys in the ocean using autonomous unmanned surface vehicles, to reduce the cost of seafloor geodesy.

Dr James Daniel Paul Moore is a Research Fellow at the Earth Observatory of Singapore investigating Lithosphere Dynamics across multiple timescales. Prior to his current position he was a postdoctoral researcher in the Marine Geophysics group at Oxford and completed his DPhil as a member of the COMET research group. His research interests include viscoelastic relaxation of the crust under loading, earthquake cycle processes, and deformation driven by volcanic systems. He examines these systems using a combination of analytic and numerical methods. His current research areas include the effect of non-linear deformation mechanisms on the earthquake cycle, with rate and state friction and off fault non-linear ductile deformation, imaging material properties of the mantle and ductile regions of the lower crust, regional compensation in dynamic topography, and nascent rifting.

Workshop Facilitators
Sagar MASUTI, *PhD Student*
Earth Observatory of Singapore, Nanyang Technological University
James Daniel Paul MOORE
Research Fellow, Nanyang Technological University
Dongju PENG
Research Fellow, *Nanyang Technological University*

Sagar Masuti is a PhD Candidate at the Earth Observatory of Singapore, the Asian School of the Environment of the Nanyang Technological University. Sagar obtained a Masters of Sc. from NTU in Embedded Systems in 2012. He joined the Earth Observatory of Singapore in 2013 and focused his work on the mechanics of deformation of the oceanic asthenosphere. His work involves modelling of postseismic deformation with geodetic data and understanding the microstructure of olivine deformation from laboratory experiments. He uses inverse theory and sophisticated numerical models to infer the mechanical properties of the lithosphere-asthenosphere system.

Dr Dongju Peng studied precise orbit determination for Low Earth Orbiting satellite using high-precision geodetic data (e.g. Global Navigation Satellite System, Doppler Orbitography and Radio-positioning Integrated by Satellite, space-borne accelerometer) at the Shanghai Astronomical Observatory, Chinese Academy of Science and Royal Melbourne Institute of Technology, Australia. Her research focused on improving the accuracy of orbit determination by developing models to mitigate the errors in observation data and algorithms to combine data from multi-techniques in orbit calculation. She became interested in sea-level studies after successfully obtaining centimeter-level orbit accuracy for an altimetry satellite Jason- 1 and investigated the short- and long-term sea level changes in the South China Sea region from satellite altimetry data and tide-gauge records at Laboratoire d'Etudes en Géophysique et Océanographie Spatiales, Toulouse, France. After joining the Earth Observatory of Singapore, Nanyang Technological University in 2015, her research now focusses on studying (1) postseismic deformation from observations (GNSS and Interferometric synthetic aperture radar) and dynamic models, and (2) sea-level changes in Singapore and the surrounding regions from a novel technique – GPS tide gauges - to identify the driving mechanisms responsible for the regional variability.

b. "Space Shuttle Orbiter & FORMOSAT Satellite"
11 August, Friday | MR331, Level 3 | 14:00 – 15:00
Specially designed for space science enthusiasts 12 years & above
I-Te LEE, *Associate Researcher at the Central Weather Bureau*

Dr. I-Te Lee, Associate Researcher at the Central Weather Bureau is in charge of preparations for space weather operations office in Taiwan. Dr Lee received his Ph. D. from the Institute of Space Science, National Central University in 2013. His research interest is focused on ionospheric radio science and data assimilation. Since 2005, Dr. Lee participated actively in many outreach education activities on space sciences. He has extensive experience in delivering workshops to a wide audience ranging from elementary school students to the general public.

About the Workshop
The Ionospheric Radio Science Laboratory (IRSL) at the Institute of Space Science, National Central University lead by Dr. J. Y. Liu in Taiwan has been conducting a series of programs on space science since 1991. These are public education and outreach programs designed to increase participant interests in space science, highlight latest findings, and equip students with better knowledge through hands-on activities.

On top of learning more about space science, students attending the workshop will also be required to complete two paper models - the space shuttle orbiter and the FORMOSAT satellite. Redesigned by IRSL and created by the National Space Organization in Taiwan, these paper models can illustrate how a real shuttle orbiter glides and lands on the base. The FORMOSAT model's realistic exterior appearance also pictures the main payload onboard the Taiwanese satellites.

3. Field Trip to St John's Island National Marine Laboratory (SJINML)
12 August, Saturday | 08:00 – 12:00 | Price per Person: SGD60

One of the Southern Islands in Singapore, St John's Island was the anchorage site of Sir Stamford Raffles in 1819. It was then used as a quarantine station during the late 19th century and presently houses multiple chalets for a popular weekend getaway.

The Tropical Marine Science Institute also has coastal facilities located on the island and as part of TMSI's public education programme to create awareness in the marine sciences; the institute conducts organized short visits to their marine research facility.

So be a part of this tour and step off the beaten track to explore a different side of Singapore!

3 Hour SJINML Tour
This three hour programme will introduce visitors to marine science research at SJINML. The program will also include a short talk highlighting some of their research along with a mini-tour of their facility.

Meetings

06 August, Sunday

Time	Function	Meeting Room
11:00 – 12:30	Student Volunteer Training	304
14:00 – 15:30	Briefing – General Election Candidates	304
16:00 – 18:00	Council Meeting	304
18:00 – 20:30	Adjourn to Dinner	-

07 August, Monday

Time	Function	Meeting Room
12:30 – 14:00	AOGS-SEG Lunch Meeting	304
12:30 – 14:00	GL Editors Lunch Meeting	303
15:30 – 18:30	AOGS2017 Opening, Axford Lectures & General Assembly	Nicoll
18:30 – 20:30	Welcome Reception/Exhibition Opens	Summit

08 August, Tuesday

Time	Function	Meeting Room
12:45 – 13:30	Info Session & Networking Lunch AOGS-EGU Joint Conference on Natural Hazards	304
12:30 – 14:00	HS Section Meeting & Networking Lunch ST Section Meeting & Networking Lunch	330 331
18:30 – 21:30	AOGS2018 Planning & Networking Dinner	-

09 August, Wednesday

Time	Function	Meeting Room
12:30 – 14:00	AS Section Meeting & Networking Lunch BG Section Meeting & Networking Lunch	331 335
18:00 – 21:00	AOGS2020 Venue Proposals & Working Dinner	304

10 August, Thursday

Time	Function	Meeting Room
12:30 – 14:00	OS Section Meeting & Networking Lunch SE Section Meeting & Networking Lunch	330 331
17:00 – 18:00	GL Editors Meeting	303
	AOGS-AGU-EGU-JPGU Partner Meeting	304
18:30 – 22:00	Convener's Dinner (By Invitation Only)	-

11 August, Friday

Time	Function	Meeting Room
12:30 – 14:00	IG Section Meeting & Networking Lunch PS Section Meeting & Networking Lunch	330 331
14:30 – 17:00	Vote Counting (Witnesses & Section Reps Only)	304
15:30 – 19:00	Closing	Nicoll
	Special Lectures, Award Presentations & Farewell Reception	

12 August, Saturday

Time	Function	Meeting Room
09:00 – 12:30	Council Meeting & Networking Lunch	304

Program - Opening

07 August, Monday | Nicoll Room, Level 3 | 15:30 - 18:30

From

15:30 Arrivals, Coffee/Tea Service

16:00 Opening Address
Benjamin Fong CHAO, *AOGS President*

16:15 Axford Lecture 1
"Competing Influences of Greenhouse Warming and Aerosols on Asian Monsoon Climate Change"
William K. M. LAU, *University of Maryland*

17:00 Axford Lecture 2
"Long-term Drivers of Aboveground-Belowground Linkages and Ecosystem Functioning"
David WARDLE, *Nanyang Technological University*

17:45 General Assembly
Secretary General's Report
Treasurer's Report
Publication Committee's Report
Award Presentations
Ratification
- Honorary Members
- Honorary Auditor

General Election – Introduction and Briefing
- Meet the Candidates
- Voting Rules & Regulations

18:30 Adjourn to Welcome Reception – *Exhibition Hall at Summit on Level 3*

Program - Closing
11 August, Friday | Nicoll Room, Level 3 | 15:30 - 19:00

From

15:30	Arrivals, Coffee/Tea Service
16:00	Axford Medal Special Lecture **"Challenges and Perspectives in Regional Climate Modeling"** Dong-Kyou LEE, *Seoul National University*
16:45	AOGS2017 Special Lecture **"Remote Sensing of Aerosols, Air Quality and Assessment of their Global and Regional Impacts"** Jack A. KAYE, *AOGS Honorary Member* *Earth Science Division, NASA Headquarters*
17:30	Award Presentations - Honorary Members - Best Student Posters
17:45	Next Meeting Destination Presentation - AOGS2018 in Hawaii
17:55	Announce General Election Results
18:00	Adjourn to Farewell Reception **-** *Nicoll Foyer*

General Election - Voting Instructions

1. Every AOGS member will receive a "General Election" coupon upon check-in
2. Casting of votes will be done at Balloting Station (Near the Registration Counter).
3. Voting Procedure:
   a. Each AOGS Member can exchange the "General Election" coupon for 4 voting slips:
      - President
      - Secretary General
      - Treasurer
      - (*) Section Presidents
        *where * represents their Primary Section*
   b. Every candidate from the respective offices will have 1 ballot box
   c. Voters are to drop the voting slips into the box of their selected candidate for each office

Cast Your Vote

Ballot Box Location - AOGS Balloting Booth (Near the Registration Counter)
Ballot Box Opens - 08 August, Tuesday | 09:00
Ballot Box Closes - 11 August, Friday | 14:30

Vote Counting: 11 August, Friday from 14:30
Announcement of Results: 11 August, Friday after 17:00

Office Bearers

Executive Committee



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Presentation Time Slots (Actual may vary – please check session schedules)

AM1 – 08:30 to 10:30 PM1 – 14:00 to 15:30

AM2 – 11:00 to 12:30 PM2 – 16:00 to 18:00

Breaks – Coffee/Tea (Summit Room, Level 3)

AM Break – 10:30 to 11:00 PM Break – 15:30 to 16:00

Lunch Break – 12:30 to 14:00

1. **Presentation ID – How to Read**

SE27 - D1 - AM2 – 311 - 002				
Session Code	Conference Day 1	AM Session 2	Meeting Room	Presentation No. 2
SE27	D1	AM2	311	002

2. **Prepare Your Presentation**
   Length of presentation material should be in accordance with your time allotted. Total duration including Q&A and speaker changeover is 15 minutes for each talk. Please refer to the Final Program for actual presentation schedules. You are kindly requested to be at the presentation room at least 15 minutes before the session starts.

3. **Determine Your Audio-Visual Needs**
   Each meeting room comes equipped with a laser pointer, computer, LCD projector and screen. The computers in the meeting rooms are being provided to Windows-based PC users. The PC will be configured with Windows Operating System. Please bring your presentation files in thumb drives. For MAC-laptop users, please bring your own VGA adapter cable.

4. **Create a Backup Copy of Your Presentation**
   We recommend that you bring at least 2 copies of your presentation to the meeting for backup purposes. Thumbdrives are acceptable.

5. **Give Your Presentation**
   Be considerate to the other speakers and audience by staying within your allocated time. The allocated time for your presentation includes a discussion and changeover to the next speaker. Session Chairs will hold you to the allotted time. This is essential to ensure adequate time for questions and discussion as well as adherence to the schedule. Please discuss the same material as reported in your abstract submission. At the end of the meeting, all presentation files will be destroyed.

1. Locate Your Poster Board

Poster presentations will be held from Tue – Fri, 08 – 11 Aug 2017 at the Exhibition/Poster Hall (Summit Room, Level 3). Poster boards are pre-assigned and marked with your Abstract ID. Please feel free to approach the Poster Help Desk for assistance.

2. Poster Set-up, Question and Answer (Q & A) Session and Tear-down

Day, Date	Sections	Poster Set-up	Poster Q & A	Poster Tear-down
Tuesday, 8 August	HS and ST	10:30 to 12:30	14:00 to 16:00 (Presenter attendance required)	16:30 to 17:00
Wednesday, 9 August	AS and BG			
Thursday, 10 August	OS and SE			
Friday, 11 August	IG and PS			

Submitted digital poster files will be uploaded to 43" Touch Screen Panels (Digital Boards) placed around the Exhibition/Poster Hall for visitor viewing throughout the conference but they are **not a substitution** for the actual poster presentation.

3. Prepare Your Poster

Please note that changes have been made to the poster dimensions for AOGS2017. Each presenter is provided with a 2.4m wide x 1m high poster panel. The presentation must cover the same material as the abstract submitted. The poster should be 1 x A0 size in landscape format, measuring 1189 mm length x 841 mm height maximum.

- Place your Abstract ID, Abstract Title and Authors' names prominently at the top of the poster to allow viewers to identify your abstract easily.
  Presenter's Name must be underlined and in Bold Letterings.
- Authors' names, e-mails and address information must be provided in case the viewer is interested in contacting you for more information.
- You have complete freedom in displaying your information in figures, tables, text, photographs, etc in the poster.
- A successful poster presentation depends on how well you convey information to an interested (but not expert) audience. You may wish to structure your poster by including the background of your research followed by results and conclusions.

4. Set Up Your Poster (See also 2 above)

- Posters should be set-up by 12:30 of the assigned day.
- Posters are scheduled to be on display from 12:30 to 16:00 for a day.
- Poster Q & A Session is as scheduled and presenter attendance is required during the session.
- Adhesive tapes are available at the Poster Help Desk, nearby the poster boards. If you have special needs for your poster presentation, please bring those supplies with you to the meeting.

5. Remove Your Poster

- Posters must be removed after the viewing time by 17:00.
- After this time, posters remaining on the boards may be removed and discarded by cleaners. AOGS will not be responsible for posters and materials left on poster boards after the stated hours.

6. Best Student Poster Competition

To qualify for this competition, participants have to submit a digital copy of their poster via MARS by **19 July 2017**. Awards shall be in the form of Certificates, to be signed by the AOGS President and the Section President, and Complimentary Registrations for the Winners to attend AOGS Annual Meeting in the following year.

- One award minimum per Section, and 1 additional award for every 20 student posters.
- If won, Best Student Poster Award will be awarded to only the Presenting Author during the closing ceremony.
- Presenter Attendance is Required during the Poster Q & A Session (See point 2 for your Section's Poster Session Schedule)
- The criteria for evaluating poster presentations are
  a. Scientific quality and novelty
  b. Poster design, and
  c. Ability of student presenter to answer question

Program Overview
(Refer to attachment)

Venue Floorplan
(Refer to attachment)

Presentations
07 Aug, 2017
Monday

Day 1 - 07 Aug 2017, Monday
Program Overview

07 Aug 2017, Monday					
Time / Room	**AM1**	**AM2**	**PM1**	**PM2**	**Evening**
	08:30 - 10:30	**11:00 - 12:30**	**14:00 - 15:30**	**16:00 - 18:00**	**18:30 – 20:30**
MR308	ST04-13-21 (p81)	ST04-13-21 (p81)	ST25 (p85)		
MR309	ST14-20-24 (p84)	ST09 (p82)	ST09 (p83)		
MR310	PS11 (p78)	PS11 (p79)	PS15 (p79)		
MR311	SE05 (p86)	SE27 (p90)	SE24 (p89)		
MR327	SE10 (p87)	SE06 (p86)	SE19 (p88)		
MR328	OS01 (p75)	OS04 (p76)	OS10 (p77)		
MR329	AS19 (p60)	AS19 (p61)	AS19 (p62)		
MR330	AS34 (p63)	AS34 (p64)	AS34 (p64)		
MR331	AS03 (p55)	AS03 (p56)	AS03 (p57)		
MR332	IG10 (p73)	IG03 (p72)	IG03 (p72)		
MR333	HS01 (p66)	HS01 (p67)	HS07 (p68)		
MR334	HS16-04 (p69)	HS03 (p67)	HS17 (p70)		
MR335	AS15 (p59)	AS11-38 (p58)	AS11-38 (p58)		
Summit					Welcome Reception
Nicoll				Opening (p37)	

Sessions & Conveners
* Main Convener

AS03 **Asian Haze: Sources, Transformation and Its Impacts from Regional to Global Scales**
*Hsiang-He LEE *Singapore-MIT Alliance for Research and Technology*, Jianmin CHEN *Fudan University*, Tong ZHU *Peking University*, Mikinori KUWATA *Nanyang Technological University*

AS11-38 **Monsoon Climates over South, East and Southeast Asia and Its Tele-connections**
*Ramesh KRIPALANI *Indian Institute of Tropical Meteorology*, Jaiho OH *Pukyong National University*, Kyung-Ja HA *Pusan National University*, Amita PRABHU *Indian Institute of Tropical Meteorology*, Sheeba Nettukandy CHENOLI *University of Malaya*

AS15 **Satellite Remote Sensing Methods and Data Applications for Air Quality Monitoring and Research in Asia**
*Pawan GUPTA *Universities Space Research Association/ NASA Goddard Space Flight Center*, Robert LEVY *NASA Goddard Space Flight Center*, Jhoon KIM *Yonsei University*, Sachin GHUDE *Indian Institute of Tropical Meteorology*, Lok LAMSAL *Universities Space Research Association/ NASA Goddard Space Flight Centre*

AS19 **The Science and Prediction of Heavy Rainfall and Floods**
*Yali LUO *China Meteorological Administration*, Johnny CHAN *City University of Hong Kong*, Pradeep MANDAPAKA VENKATA *Nanyang Technological University*, Edmond LO *Nanyang Technological University*, Xiaosheng QIN *Nanyang Technological University*

AS34 **Atmospheric Chemistry in Highly Polluted Environments**
*Jianlin HU *Nanjing University of Information Science & Technology*, Hongliang ZHANG *Louisiana State University*, Sri H. KOTA *Indian Institute of Technology Guwahati*

HS01 **Challenges in Hydrologic Modeling**
*Bellie SIVAKUMAR *University of New South Wales*, Shie-Yui LIONG *National University of Singapore*, Ji CHEN *The University of Hong Kong*, Dawen YANG *Tsinghua University*

HS03 **Near Surface Investigation and Modeling for Groundwater Resources Assessment**
*Ping-Yu CHANG *National Central University*, Jui-Pin TSAI *National Chiao Tung University*, Chuen-Fa NI *National Central University*, Liang-Cheng CHANG *National Chiao Tung University*, Hwa-Lung YU *National Taiwan University*

HS07 **Water-related Hazards and Their Forecasting and Warning**
*Gwo-Fong LIN *National Taiwan University*, Jui-Yi HO *National Applied Research Laboratories*, Bing-Chen JHONG *National Taiwan University*

HS16-04 **Hydrometeorological Analysis of Natural Hazards**
*Hung Soo KIM *Inha University*, Ji CHEN *The University of Hong Kong*, Soojun KIM *Inha University*, C.G. CUI *China Meteorological Administration*, Tao PENG *China Meteorological Administration*

HS17 **Interactions Between Water and Ecosystem**
*Gene J-Y YOU *National Taiwan University*, Jian-Ping SUEN *National Cheng Kung University*, Ting Fong May CHUI *The University of Hong Kong*, Kyungrock PAIK *Korea University*

IG03 **Remote Sensing of Essential Climate Variables and Its Applications**
*Wei YANG *Chiba University*, Xin CAO *Beijing Normal University*, Hikeki KOBAYASHI *Japan Agency for Marine-Earth Science and Technology*, Xiaolin ZHU *The Hong Kong Polytechnic University*

IG10 **Satellite Gravimetry and Climate Change**
*Jianli CHEN *University of Texas at Austin*, Kosuke HEKI *Hokkaido University*, Henryk DOBSLAW *Helmholtz Centre Potsdam GFZ German Research Centre for Geosciences*, Ki-Weon SEO *Seoul National University*, Di LONG *Tsinghua University*

OS01 **Dynamics of Indonesian Seas and Indo-Pacific Climate Variability**
*Intan Suci NURHATI *Indonesian Institute of Sciences*, Edvin ALDRIAN *Agency for Meteorology Climatology and Geophysics*, Fadli SYAMSUDIN *Agency for Assessment and Application of Technology*, Anna KUSWARDANI *Ministry of Marine Affairs and Fisheries*, Fredolin T. TANGANG *National University of Malaysia*

OS04 **Indonesian Seas: Insights from Observations, Models, and Theory**
*Robin ROBERTSON *University of New South Wales*, Agus ATMADIPOERA *Bogor Agricultural University*

OS10 **Ocean Salinity Variability and Its Impact on Weather, Climate and Biogeochemistry**
*Hailong LIU *Shanghai Jiao Tong University*, Nathalie GOODKIN *Nanyang Technological University*, Sung-Hyun NAM *Seoul National University*, Xidong WANG *Hohai University*

PS11 **Exploring the Solar System Primitive Bodies**
*Jian-Yang LI *Planetary Science Institute*, Makoto YOSHIKAWA *Japan Aerospace Exploration Agency*, Eleonora AMMANNITO *University of California, Los Angeles*, Bin YANG *Chinese Academy of Sciences*

PS15 **Volcanism and Tectonism Across the Solar System**
*Anezina SOLOMONIDOU *Jet Propulsion Laboratory, California Institute of Technology*, Thomas PLATZ *Max-Planck Institute for Solar System Research*, Florian M. SCHWANDNER *Jet Propulsion Laboratory/ California Institute of Technology (Caltech)*

ST04-13-21 **Global Solar Wind-planetary Interactions: A Comparative View of Recent Observations, Modeling and Numerical Simulations**
*Bertrand LEMBEGE *National Centre for Scientific Research*, Gurbax LAKHINA *Indian Institute of Geomagnetism*, Ramon LOPEZ *University of Texas at Arlington*, Chi WANG *Chinese Academy of Sciences*, Dongsheng CAI *University of Tsukuba*

ST09 **Magnetic Reconnection in Space Plasma: Observations and Simulations**
*Quanming LU *University of Science and Technology of China*, Jiansen HE *Peking University*, Shiyong HUANG *Wuhan University*, Huishan FU *Beihang University*, Keizo FUJIMOTO *Beihang University*

ST14-20-24 **Sun and Heliosphere General Session Including Broadband Radio Physics, Helioseismology and Solar Diagnostic Techniques**
*Mario BISI *Science & Technology Facilities Council*, Alessandra GIUNTA *Science & Technology Facilities Council - Rutherford Appleton Laboratory*, Bernard JACKSON *University of California, San Diego*, Richard FALLOWS *The Netherlands Institute for Radio Astronomy*, Jasmina MAGDALENIC ZHUKOV *Royal Observatory of Belgium*

ST25 **New Perspectives of the Magnetosphere-ionosphere System from Numerical Models and Synoptic Observations**
*Anthony LUI *Johns Hopkins University*, Gang LU *National Center for Atmospheric Research*

SE05 **Geodetic Observations and Applications in Earth Sciences and Geohazards**
*Shuanggen JIN *Chinese Academy of Sciences*, Harald SCHUH *GFZ German Research Centre for Geosciences*, Cheinway HWANG *National Chiao Tung University*, Hasanuddin ABIDIN *Institute of Technology Bandung*, Michael PEARLMAN *Harvard-Smithsonian Center for Astrophysics*

SE06 **Long-term Rheological Behavior of the Crust and Mantle Inferred from Observations and Models at Laboratory and Geological Time and Spatial Scales**
*James Daniel Paul MOORE *Nanyang Technological University*, Tony WATTS *University of Oxford*

SE10 **Connecting Field, Laboratory, and Volcanic Monitoring Data to Magmatic Processes**
*Helena ALBERT *Nanyang Technological University*, Lauriane CHARDOT *Earth Observatory of Singapore, Nanyang Technological University*, Dawn SWEENEY RUTH *Nanyang Technological University*, Florian M. SCHWANDNER *Jet Propulsion Laboratory/ California Institute of Technology (Caltech)*, Fidel COSTA *Nanyang Technological University*

SE19 **Geodynamics at Active Plate Convergence Belt in East Asia**
*Kuo-En CHING *National Cheng Kung University*, Teresito BACOLCOL *Philippine Institute of Volcanology and Seismology*, Po-Fei CHEN *National Central University*

SE24 **Crustal Dynamics and Seismogensis Beneath Seismically Active Regions of South Asia**
*O P MISHRA *Ministry of Earth Sciences*, Jianshe LEI *China Earthquake Administration*, Neloy KHARE *Ministry of Earth Sciences*

SE27 **Magmatism from Mantle Through Crust: Asian Perspectives**
*Carlo ARCILLA *University of the Philippines Diliman*, Florian SCHWANDNER *NASA-JPL*, Hoang NGUYEN *Geological Survey of Japan*

AS03 / Asian Haze: Sources, Transformation and Its Impacts from Regional to Global Scales

Mon - 07 Aug | MR331

Session Chair(s) Hsiang-He LEE, *Singapore-MIT Alliance for Research and Technology*

08:30
AS03-D1-AM1-331-001
AS03-A002
Chemical Characteristic of Low-Molecular-Weight Dicarboxylic Acids and Related Organic Compounds in Biomass-Burning Aerosols in Northeast China
Fang CAO[1#+], Yanlin ZHANG[1]
[1]Nanjing University of Information Science & Technology

08:45
AS03-D1-AM1-331-002
AS03-A032
Wavelength-Dependent Aerosol Absorption in the North China Plain
Liang RAN[1#+], Zhaoze DENG[2], Pucai WANG[1], Xiangao XIA[1]
[1]Chinese Academy of Sciences, [2]Institute of Atmospheric Physics, Chinese Academy of Sciences

09:00
AS03-D1-AM1-331-003
Invited
AS03-A023
Sources of Haze in Beijing During Winter 2016
Mei ZHENG[1#+], Caiqing YAN[1], Tian ZHOU[1], Yanan ZHAO[1]
[1]Peking University

09:15
AS03-D1-AM1-331-004
AS03-A001
High Contribution of Non-Fossil Sources to Sub-Micron Organic Aerosols in Beijing, China
Yanlin ZHANG[1#+]
[1]Nanjing University of Information Science & Technology

09:30
AS03-D1-AM1-331-005
AS03-A012
Direct Observations of Organic Aerosols in Common Wintertime Hazes in North China: Insights Into Direct Emissions from Chinese Residential Stoves
Weijun LI[1#+]
[1]Shandong University

09:45
AS03-D1-AM1-331-006
AS03-A020
Characterization of Pollutants and Aerosol Chemical Components in Situ Ship Cruise During Yangtze River Campaign
Zhong LI[1#+], Jianmin CHEN[1], Hongli WANG[2], Lan YAO[1]
[1]Fudan University, [2]Shanghai Academy of Environmental Sciences

10:00
AS03-D1-AM1-331-007
AS03-A016
Air Pollutant Emissions from Chinese Households: A Major and Underappreciated Ambient Pollution Source
Tong ZHU[1#+], Jun LIU[2], Denise MAUZERALL[3], Kirk SMITH[4], Qi CHEN[1], Qiang ZHANG[5], Yu SONG[1], Wei PENG[6], Zbigniew KLIMONT[2], Xinghua QIU[1], Shiqiu ZHANG[1], Min HU[1], Weili LIN[7]
[1]Peking University, [2]International Institute for Applied Systems Analysis, [3]Princeton University, [4]University of California, Berkeley, [5]Tsinghua University, [6]Harvard University, [7]Chinese Academy of Meteorological Sciences

10:15
AS03-D1-AM1-331-008
AS03-A013
Comparing the Effects of El Nino Southern Oscillation and Relative Humidity on the Relationship Between Aerosol Optical Depth and Precipitation Over Southeast Asia
Ruimin LI[1,2#+], Daniel Hui Loong NG[1,2], Srivatsan RAGHAVAN[1], Shie-Yui LIONG[1]
[1]National University of Singapore, [2]Tropical Marine Science Institute

Session Chair(s) Mikinori KUWATA, *Nanyang Technological University*

11:00
AS03-D1-AM2-331-009
Invited
AS03-A008
Regional-Scale PM2.5 Air Pollution Reaching Japan: Scientific Knowledge and Challenges
Yugo KANAYA[1#+]
[1]Japan Agency for Marine-Earth Science and Technology

11:15
AS03-D1-AM2-331-010
AS03-A009
Impacts of Fire and Non-Fire Pollutants on the Regional Air Quality in Southeast Asia
Hsiang-He LEE[1#+], Oussama IRAQUI[2], Chien WANG[3]
[1]Singapore-MIT Alliance for Research and Technology, [2]National Institute of Applied Science of Lyon (INSA Lyon), [3]Massachusetts Institute of Technology

11:30
AS03-D1-AM2-331-011
Invited
AS03-A031
Improving Air Quality Models Through Better Understanding of Reactive Nitrogen Chemistry and Radical Sources
Tao WANG[1#+]
[1]The Hong Kong Polytechnic University

11:45
AS03-D1-AM2-331-012
AS03-A015
Radiative Effects of Anthropogenic Aerosol Emissions Across Different Source Regions in Asia
Benjamin GRANDEY[1#+], Chien WANG[2]
[1]Singapore-MIT Alliance for Research and Technology, [2]Massachusetts Institute of Technology

12:00
AS03-D1-AM2-331-013
AS03-A007
Understanding the Relationship Between Aerosol Optical Depth and Precipitation Over Southeast Asia Through Daily Averaged Remote Sensing Data
Daniel Hui Loong NG[1,2#+], Ruimin LI[1,2], Srivatsan RAGHAVAN[1], Shie-Yui LIONG[1]
[1]National University of Singapore, [2]Tropical Marine Science Institute

12:15
AS03-D1-AM2-331-014
AS03-A030
Simulation of Trans-Boundary Haze Over South East Asia in 2015 Using WRF Chem
Xing YU[1,2#+], Daniel Hui Loong NG[2,3], Jina HUR[2], Shie-Yui LIONG[2], Srivatsan RAGHAVAN[2]
[1]Sun Yat-sen University, [2]National University of Singapore, [3]Tropical Marine Science Institute

Session Chair(s) Tong ZHU, *Peking University*
Hsiang-He LEE, *Singapore-MIT Alliance for Research and Technology*

14:00 AS03-A011
AS03-D1-PM1-331-015
The Impact of Various Aerosol Emission Scenarios on Precipitation and its Effects on Lower Mekong River Hydrology
Lik Khian YEO[1#+], Hsiang-He LEE[1], Chien WANG[2], Shie-Yui LIONG[3]
[1]Singapore-MIT Alliance for Research and Technology, [2]Massachusetts Institute of Technology, [3]National University of Singapore

14:15 AS03-A034
AS03-D1-PM1-331-016
Evaluation of PM10 Emission Ratio of Tropical Peatland Burning by Continuous Air Quality Monitoring Data
Mikinori KUWATA[1#+], Gautham GIRI[2], Osamu KOZAN[3], Takuma MIYAKAWA[4], Syahrial SUMIN[5], Talib LATIF[6], Md Firoz KHAN[6], Windy IRIANA[7], Kenichi TONOKURA[7]
[1]Nanyang Technological University, [2]Yonsei University, [3]Kyoto University, [4]Japan Agency for Marine-Earth Science and Technology, [5]Pekanbaru City, [6]National University of Malaysia, [7]The University of Tokyo

14:30 AS03-A033
AS03-D1-PM1-331-017
Size Distribution of Submicron Aerosol Absorptive Properties in the North China Plain
Zhaoze DENG[1#+], Liang RAN[2], Pucai WANG[2]
[1]Institute of Atmospheric Physics, Chinese Academy of Sciences, [2]Chinese Academy of Sciences

14:45 AS03-A027
AS03-D1-PM1-331-018
Source Characterization of Ambient Fine Aerosol in Singapore During a Haze Episode in 2015
Sri Hapsari BUDISULISTIORINI[1#+], Matthieu RIVA[2], Michael WILLIAMS[3], Takuma MIYAKAWA[4], Yuichi KOMAZAKI[4], Jing CHEN[1], Jason SURRATT[3], Mikinori KUWATA[1]
[1]Nanyang Technological University, [2]University of Helsinki, [3]University of North Carolina at Chapel Hill, [4]Japan Agency for Marine-Earth Science and Technology

15:00 AS03-A029
AS03-D1-PM1-331-019
Combining AOD and Trace Gasses to Identify the Spatial and Temporal Pattern of Asian Aerosol Loadings and Emissions
Jason COHEN[1#+]
[1]Sun Yat-sen University

15:15 AS03-A021
AS03-D1-PM1-331-020
The Impact of Aerosol Physicochemical Properties on Atmospheric Visibility During Haze Events in Shanghai
Lina WANG[1#+], Jianmin CHEN[2], Lin WANG[2], Hongli WANG[3], Li LI[3], Liping QIAO[3], Jing LIU[4]
[1]East China University of Science and Technology, [2]Fudan University, [3]Shanghai Academy of Environmental Sciences, [4]Harbin Institute of Technology

AS11-38 / Monsoon Climates over South, East and Southeast Asia and Its Tele-connections

Mon - 07 Aug | MR335

Session Chair(s) Jai-Ho OH, *Pukyong National University*
R.H.KRIPALANI, *Indian Institute of Tropical Meteorology*

11:00 AS11-38-A011
AS11-38-D1-AM2-335-001 Invited
Perspectives on the Non-Stationarity of the South and East Asian Summer Rainfall Relationship
Renguang WU[1#+]
[1]*Chinese Academy of Sciences*

11:20 AS11-38-A005
AS11-38-D1-AM2-335-002
Thermodynamic and Dynamic Influences in the Far East–Okhotsk Region on Meiyu–Baiu Evolution
Chi-Hua WU[1#+]
[1]*Academia Sinica*

11:35 AS11-38-A020
AS11-38-D1-AM2-335-003
Simultaneous Modulations of Precipitation and Temperature Extremes in Southern Parts of China by the Boreal Summer Intraseasonal Oscillation
Yang CHEN[1#+]
[1]*Chinese Academy of Meteorological Sciences*

11:50 AS11-38-A029
AS11-38-D1-AM2-335-004
Distribution of Extreme Rainfall Events and the Associated Mesoscale Features Over the Peninsular Malaysia
Siti SALEHA[1#+], Azizan Abu SAMAH[1], Sheeba Nettukandy CHENOLI[1]
[1]*University of Malaya*

12:05 AS11-38-A034
AS11-38-D1-AM2-335-005
Regional Simulation of Monsoon Intraseasonal Oscillations at Gray Zone Resolution
Olivier PAULUIS[1#+], Xingchao CHEN[1]
[1]*New York University*

12:20 AS11-38-A046
AS11-38-D1-AM2-335-006
Variability and Trends of Maritime Continent Annual Rainfall from the Perspective of Large-Scale Weather States
Muhammad Eeqmal HASSIM[1#+], Bertrand TIMBAL[2]
[1]*Meteorological Service Singapore,* [2]*National Environment Agency*

Session Chair(s) Renguang WU, *Chinese Academy of Sciences*
R.H. KRIPALANI, *Indian Institute of Tropical Meteorology*

14:00 AS11-38-A039
AS11-38-D1-PM1-335-007
Long-Term Variability of Indian Summer Monsoon Rainfall
Qinjian JIN[1#+], Chien WANG[1]
[1]*Massachusetts Institute of Technology*

14:15 AS11-38-A045
AS11-38-D1-PM1-335-008
Linkage of Antarctic Sea Ice Extent with the Indian Summer Monsoon Rainfall
Siti Syairah Atiqah AZHAR[1#+], Sheeba Nettukandy CHENOLI[1], Azizan Abu SAMAH[1]
[1]*University of Malaya*

14:30 AS11-38-A032
AS11-38-D1-PM1-335-009
Dominant Synoptic Disturbance in the Extreme Rainfall at Cherrapunji, North East India
Fumie MURATA[1#+], Toru TERAO[2], Hatsuki FUJINAMI[3], Taiichi HAYASHI[4], Haruhisa ASADA[5], Jun MATSUMOTO[6], Hiambok SYIEMLIEH[7]
[1]Kochi University, [2]Kagawa University, [3]Nagoya University, [4]Kyoto University, [5]Nara Women's University, [6]Tokyo Metropolitan University, [7]North-Eastern Hill University

14:45 AS11-38-A010
AS11-38-D1-PM1-335-010
An Observational Study of the Diurnal Variation of Precipitation Over Coastal Southeast China and Underlying Processes–Using Hong Kong as a Representative Site
Xiuzhen LI[1#+], Gabriel LAU[2], T. C. LEE[3]
[1]Sun Yat-sen University, [2]Chinese University of Hong Kong, [3]Hong Kong Observatory

15:00 AS11-38-A036
AS11-38-D1-PM1-335-011
Understanding of Consecutive Droughts of the Indian Summer Monsoon
Raju PATHAK[1#+], Sandeep SAHANY[1], Saroj Kanta MISHRA[1]
[1]Indian Institute of Technology Delhi

AS15 / Satellite Remote Sensing Methods and Data Applications for Air Quality Monitoring and Research in Asia

Mon - 07 Aug | MR335

Session Chair(s) Pawan GUPTA, *USRA/NASA Goddard*

08:30 AS15-A005
AS15-D1-AM1-335-001
Invited
Developing Future Air Quality Observing Strategies: Contributions from KORUS-AQ
James CRAWFORD[1#+]
[1]NASA Langley Research Center

08:45 AS15-A021
AS15-D1-AM1-335-002
Invited
Applications of Satellite-Derived Products to Short-Term Air Quality Forecasts Over East Asia
Chul Han SONG[1#+], Kyunghwa LEE[1], Sojin LEE[2]
[1]Gwangju Institute of Science and Technology, [2]National Center for Atmospheric Research

09:00 AS15-A024
AS15-D1-AM1-335-003
Using the Difference in Lifetime of Multiple Remotely Sensed Species to Identify Primary and Secondary Contributions to East and Southeast Asian Haze
Jason COHEN[1#+], Daniel Hui Loong NG[2,3]
[1]Sun Yat-sen University, [2]National University of Singapore, [3]Tropical Marine Science Institute

09:15 AS15-A011
AS15-D1-AM1-335-004
Adjoint Inversion of Chinese Non-Methane Volatile Organic Compounds Sources Using Space-Based Observations of Formaldehyde and Glyoxal
Hansen CAO[1#+], Tzung-May FU[1], Lin ZHANG[1], Daven K. HENZE[2], Christophe LEROT[3], Christopher MILLER[4], Yuanhong ZHAO[1]
[1]Peking University, [2]University of Colorado Boulder, [3]Belgian Institute for Space Aeronomy, [4]Harvard University

09:30 AS15-A015
AS15-D1-AM1-335-005
Creating a Long-Term Aerosol Dataset from Multiple Satellite Sensors
Robert LEVY[1#+], Shana MATTOO[1], Virginia SAWYER[1], Falguni PATADIA[1], Pawan GUPTA[2], Lorraine REMER[3]
[1]NASA Goddard Space Flight Center, [2]Universities Space Research Association/ NASA Goddard Space Flight Center, [3]University of Maryland Baltimore County

09:45 AS15-A006
AS15-D1-AM1-335-006
Estimating Ground-Level NO2 from Aura OMI Observations Using Geographically and Temporally Weighted Regression
Kai QIN[1#+], Lanlan RAO[1], Jian XU[2], Yang BAI[3], Luyao WANG[1], Nan HAO[2]
[1]China University of Mining and Technology, [2]German Aerospace Center, [3]Central South University

10:00 AS15-A014
AS15-D1-AM1-335-007
GOCI Yonsei Aerosol Retrieval Algorithm Version 2 and Long-Term Validation Using Ground-Based Remote Sensing Observations
Myungje CHOI[1#+], Jhoon KIM[1], Jaehwa LEE[2], Mijin KIM[1], Young-Je PARK[3], Brent HOLBEN[2], Thomas ECK[2], Zhengqiang LI[4]
[1]Yonsei University, [2]NASA Goddard Space Flight Center, [3]Korean Institute of Ocean Science and Technology, [4]Chinese Academy of Sciences

10:15 AS15-A007
AS15-D1-AM1-335-008
Spatiotemporal Variation in PM2.5 Concentration for Administrative Regions in China from 2001 to 2015 Using 1-km Satellite Data
Changqing LIN[1#+], Alexis LAU[1], Ying LI[2]
[1]Hong Kong University of Science and Technology, [2]Southern University of Science and Technology

AS19 / The Science and Prediction of Heavy Rainfall and Floods

Mon - 07 Aug | MR329

Session Chair(s) Pradeep Mandapaka VENKATA, *Nanyang Technological University*
Johnny CHAN, *City University of Hong Kong*

08:30 AS19-A028
AS19-D1-AM1-329-001
Factors Affecting Precipitation Development in Complex Terrain, Mt. Jiri, Korea
Yunhee KANG[1+], Dong-In LEE[1#], Dong-Kyun KIM[1], Mi-Young KANG[1], Jong-Hoon JEONG[2]
[1]Pukyong National University, [2]Korea Meteorological Administration

08:45 AS19-A023
AS19-D1-AM1-329-002
Heavy Rainfall Episodes Over the East Coast of Peninsular Malaysia During November and December 2014
Kumarenthiran SUBRAMANIAM[1#+], Johnny CHAN[2]
[1]Malaysian Meteorological Department, [2]City University of Hong Kong

09:00 AS19-A027
AS19-D1-AM1-329-003
Observations of a Quasi-Stationary Convective Line in the Taipei Basin During Taiwan Mei-Yu Season
Shou Liang YU[1#+], Ben JOU[1]
[1]National Taiwan University

09:15
AS19-D1-AM1-329-004
AS19-A017
Synoptic Analyses of Extreme Hourly Precipitation in Taiwan During 2003-2012
Mengwen WU[1+], Yen TZU-HSIUNG[2], Yali LUO[1], Chun-Chieh WU[2#]
[1]China Meteorological Administration, [2]National Taiwan University

09:30
AS19-D1-AM1-329-005
AS19-A030
Rapid Flood Extent Delineation via Regional Dimensionless Rating Curve
Sangeetha SANTHAPPAN VENKATACHALAM[1#+], Charng Ning CHEN[1], Edmond LO[1]
[1]Nanyang Technological University

09:45
AS19-D1-AM1-329-006
AS19-A031
Large-Scale Atmospheric Conditions Associated with Extreme Wet Spells in Peninsular Malaysia
Pradeep MANDAPAKA VENKATA[1#+], Tracy SIM[1], Edmond LO[1]
[1]Nanyang Technological University

10:00
AS19-D1-AM1-329-007
AS19-A006
The Southern China Monsoon Rainfall Experiment
Yali LUO[1#+], Renhe ZHANG[1]
[1]China Meteorological Administration

Session Chair(s)
Yali LUO, *Chinese Academy of Meteorological Sciences*
Ben JOU, *National Taiwan University*

11:00
AS19-D1-AM2-329-008
Invited
AS19-A026
Key Microphysical Factors Impact the Simulation of a Squall Line
Yanluan LIN[1#+], Qifeng QIAN[1], Xi ZHAO[1]
[1]Tsinghua University

11:15
AS19-D1-AM2-329-009
AS19-A009
Investigation of the Physical Mechanisms of an Extreme Rainfall Event During the SCMREX-2014 Field Campaign
Yangruixue CHEN[1+], Yali LUO[2#]
[1]Chinese Academy of Meteorological Sciences, [2]China Meteorological Administration

11:30
AS19-D1-AM2-329-010
AS19-A012
An Extreme Rainfall Event Associated with a Mesoscale Outflow Boundary and Multiple Rainbands over Guangdong Coastal Areas During SCMREX-2014
Xi LIU[1+], Yali LUO[2#], Zhaoyong GUAN[1]
[1]Nanjing University of Information Science & Technology, [2]China Meteorological Administration

11:45
AS19-D1-AM2-329-011
AS19-A004
Statistical Characteristics of Raindrop Size Distributions and Their Retrieved Polarimetric Parameters During the Southern China Monsoon Rainfall Experiment
Xiantong LIU[1#+], Huijun HUANG[1], Yali LUO[1], Wan QILIN[1], Hong WANG[1], Hui XIAO[1], Lu FENG[1]
[1]China Meteorological Administration

12:00
AS19-D1-AM2-329-012
AS19-A001
Evaluation of Quantitative Precipitation Forecast by TIGGE Ensembles for South China During the Pre-Summer Rainy Season
Ling HUANG[1#+], Yali LUO[2]
[1]Chinese Academy of Meteorological Sciences, [2]China Meteorological Administration

12:15
AS19-D1-AM2-329-013

AS19-A005
Assimilating Doppler Radar Observations with an Ensemble Kalman Filter for Convection-Permitting Prediction of Convective Development in a Heavy Rainfall Event During SCMREX
Xinghua BAO[1#+], Yali LUO[2]
[1]*Chinese Academy of Meteorological Sciences*, [2]*China Meteorological Administration*

Session Chair(s)
Xiaosheng QIN, *Nanyang Technological University*
Edmond LO, *Nanyang Technological University*

14:00
AS19-D1-PM1-329-014
Invited

AS19-A029
Spatial Spread-Skill Relationship in Terms of Agreement Scales for Precipitation Forecasts in a Convection-Allowing Ensemble
Huiling YUAN[1#+], Xi CHEN[1], Ming XUE[2]
[1]*Nanjing University*, [2]*The University of Oklahoma*

14:15
AS19-D1-PM1-329-015

AS19-A015
An Improved Index for West African Summer Monsoon Rainfall
Akintomide Afolayan AKINSANOLA[1#+], Wen ZHOU[1]
[1]*City University of Hong Kong*

14:30
AS19-D1-PM1-329-016

AS19-A016
Ensemble Simulations of a Severe Flood Over South China with a General Circulation Model IAP AGCM4.1
He ZHANG[1#+]
[1]*Chinese Academy of Sciences*

14:45
AS19-D1-PM1-329-017

AS19-A033
Urban Regional Precipitation Simulations - Comparison of Pseudo-Global-Warming with Local Forcing
Christopher Claus HOLST[1#+], Johnny CHAN[1]
[1]*City University of Hong Kong*

15:00
AS19-D1-PM1-329-018

AS19-A034
Assessment of Changes in Daily Rainfall Extremes in Jakarta Using Climate Projections and Nonstationary Extreme Value Analysis
Velautham DAKSIYA[1#+], Pradeep MANDAPAKA VENKATA[1], Edmond LO[1]
[1]*Nanyang Technological University*

15:15
AS19-D1-PM1-329-019

AS19-A036
Analysing Hydro-Meteorological Scenario During 2015 Chennai Flood Event and Possible Role of Urbanization
Jagabandhu PANDA[1#+], Sudhansu Sekhar RATH[1]
[1]*National Institute of Technology Rourkela*

AS34 / Atmospheric Chemistry in Highly Polluted Environments

Mon - 07 Aug | MR330

Session Chair(s) Sri H. KOTA, *Indian Institute of Technology Guwahati*
Xinlei GE, *Nanjing University of Information Science and Technology*

08:30
AS34-D1-AM1-330-001
Invited

AS34-A004
Chemical Characterization of Fine Particulate Matter in Changzhou, China and Source Apportionment with Offline Aerosol Mass Spectrometry
Xinlei GE[1#+], Zhaolian YE[2]
[1]Nanjing University of Information Science & Technology, [2]Jiangsu University of Science and Technology

08:45
AS34-D1-AM1-330-002
Invited

AS34-A035
Long-Term Changes of Ozone at Mount Tai in North China Plain: Measurement and Simulation
Likun XUE[1#+], Lei SUN[1], Jintai LIN[2], Ruijing NI[2], Tao WANG[3], Wenxing WANG[1]
[1]Shandong University, [2]Peking University, [3]The Hong Kong Polytechnic University

09:00
AS34-D1-AM1-330-003
Invited

AS34-A013
Aqueous-Phase Aerosols on the Air-Water Interface: Response of Fatty Acid Langmuir Monolayers to Atmospheric Inorganic Ions
Lin DU[1#+], Siyang LI[1]
[1]Shandong University

09:15
AS34-D1-AM1-330-004

AS34-A027
Mass Closure of PM2.5 Measurements During Mace 2015
Grethyl CATIPAY[1#+], Grace BETITO[1], Simonas KECORIUS[2], Thomas MUELLER[2], Preciosa Corazon PABROA[3], Melliza CRUZ[4], James SIMPAS[4], Maria Obiminda CAMBALIZA[1,4], Genevieve LORENZO[4], Sherdon Niño UY[4], Jackie IBAÑEZ[1], Arvin JAGONOY[3], Eduard STELCER[5], David COHEN[5], Armand ATANACIO[5], Alfred WIEDENSOHLER[2]
[1]Ateneo de Manila University, [2]Leibniz Institute for Tropospheric Research, [3]Philippine Nuclear Research Institute-DOST, [4]Manila Observatory, [5]Australian Nuclear Science and Technology Organisation

09:30
AS34-D1-AM1-330-005

AS34-A032
Observational Study of Aerosol Profiles in the Near Surface Layer in Highly Polluted Region
Yuxuan BIAN[1+], Wanyun XU[1], Gang ZHAO[2], Chunsheng ZHAO[2#]
[1]Chinese Academy of Meteorological Sciences, [2]Peking University

09:45
AS34-D1-AM1-330-006

AS34-A034
Daytime Sources of Nitrous Acid in the Urban Atmosphere of Ji'nan in North China
Rongrong GU[1+], Likun XUE[1#], Dandan LI[1], Liang WEN[1], Tianshu CHEN[1], Abdelwahid MELLOUKI[2], Wenxing WANG[1]
[1]Shandong University, [2]Centre National de la Recherche Scientifique

10:00
AS34-D1-AM1-330-007

AS34-A028
The Long Range Transports of Trace Gases and Aerosols at Bachok Marine Research Station
Noraini MOHYEDDIN[1#+], Azizan Abu SAMAH[1], Sheeba Nettukandy CHENOLI[1]
[1]University of Malaya

10:15
AS34-D1-AM1-330-008
AS34-A023
Methane Fingerprinting: Isotopic Methane and Ethane-To-Methane Ratio Analysis Using a Cavity Ringdown Spectrometer
David KIM-HAK[1#+]
[1]*Picarro Inc.*

Session Chair(s)
Hongliang ZHANG, *Louisiana State University*
Weijun LI, *Shandong University*

11:00
AS34-D1-AM2-330-009
Invited
AS34-A030
A New Parameterization Scheme of the Light Scattering Enhancement Factor f(Rh, λ) with Aerosol Chemical Components
Yingli YU[1+], Ye KUANG[1], Chunsheng ZHAO[1#]
[1]*Peking University*

11:15
AS34-D1-AM2-330-010
Invited
AS34-A011
A Conceptual Framework for Mixing Structures in Individual Aerosol Particles
Weijun LI[1#+]
[1]*Shandong University*

11:30
AS34-D1-AM2-330-011
AS34-A001
Effects of Black Carbon Mixing State on Aerosol-Climate Interaction in China
Hongliang ZHANG[1#+], Jianlin HU[2], Qi YING[3]
[1]*Louisiana State University,* [2]*Nanjing University of Information Science & Technology,* [3]*Texas A&M University*

11:45
AS34-D1-AM2-330-012
AS34-A017
The Climatic Impacts of Black Carbon Aerosols in the Philippines
Byron Terenz LEAÑO[1#+], Gemma NARISMA[1,2]
[1]*Ateneo de Manila University,* [2]*Manila Observatory*

12:00
AS34-D1-AM2-330-013
AS34-A031
Light-Absorbing Brown Carbon Aerosol Constituents from Combustion of Indonesian Peat and Biomass
Sri Hapsari BUDISULISTIORINI[1#+], Matthieu RIVA[2], Michael WILLIAMS[3], Jing CHEN[1], Masayuki ITOH[4], Jason SURRATT[3], Mikinori KUWATA[1]
[1]*Nanyang Technological University,* [2]*University of Helsinki,* [3]*University of North Carolina at Chapel Hill,* [4]*Kyoto University*

Session Chair(s)
Jianlin HU, *Nanjing University of Information Science and Technology*
Sri H. KOTA, *Indian Institute of Technology Guwahati*

14:00
AS34-D1-PM1-330-014
Invited
AS34-A010
Modeling of Rapid Formation of a Severe Winter Haze Over the North China Plain
Huiyun DU[1#+], Jie LI[1]
[1]*Chinese Academy of Sciences*

14:15
AS34-D1-PM1-330-015
AS34-A003
Yearlong Simulation of Gaseous and Particulate Air Pollutants in India During 2015
Sri H. KOTA[1#+], Hao GUO[2], Jianlin HU[3], Shovan SAHU[1], Qi YING[4], Hongliang ZHANG[2]
[1]*Indian Institute of Technology Guwahati,* [2]*Louisiana State University,* [3]*Nanjing University of Information Science & Technology,* [4]*Texas A&M University*

14:30
AS34-D1-PM1-330-016

AS34-A005
Unintentional Ozone Increase Due to Particulate Matter Controls in China
Jianlin HU[1#+], Qi YING[2], Hongliang ZHANG[3]
[1]Nanjing University of Information Science & Technology, [2]Texas A&M University, [3]Louisiana State University

14:45
AS34-D1-PM1-330-017

AS34-A012
Parameterized Yields of Semi-Volatile Products from Isoprene Oxidation Under Different NOx Levels: Impacts of Chemical Aging and Gas Wall-Loss
Li XING[1+], Tzung-May FU[2#], Manish SHRIVASTAVA[3]
[1]Chinese Academy of Sciences, [2]Peking University, [3]Pacific Northwest National Laboratory

HS01 / Challenges in Hydrologic Modeling

Mon - 07 Aug | MR333

Session Chair(s) Bellie SIVAKUMAR, *University of New South Wales / University of California, Davis*
Shie-Yui LIONG, *National University of Singapore*

08:30
HS01-D1-AM1-333-001
Invited
HS01-A015
Support Vector Machines as a Tool for Issuing Flood Warning
A.W. JAYAWARDENA[1#+]
[1]*The University of Hong Kong*

08:45
HS01-D1-AM1-333-002
HS01-A011
Assessment of the Suitability of Rainfall–Runoff Models by Coupling Performance Statistics and Sensitivity Analysis
Chungsoo KIM[1#+], Cho-Rong KIM[1]
[1]*Korea Institute of Civil Engineering and Building Technology*

09:00
HS01-D1-AM1-333-003
HS01-A002
Complex Networks and Hydrology: Current Status and Future Directions
Bellie SIVAKUMAR[1,2#+]
[1]*University of New South Wales,* [2]*University of California, Davis*

09:15
HS01-D1-AM1-333-004
HS01-A025
Improved Joint Approaches for Model Calibration and Prediction Uncertainty Estimation Over the Huaihe River Basin
Huiling YUAN[1#+], Ruochen SUN[1]
[1]*Nanjing University*

09:30
HS01-D1-AM1-333-005
HS01-A007
Catchment Classification Using Complex Networks
Siti Aisyah TUMIRAN[1#+], Bellie SIVAKUMAR[1,2]
[1]*University of New South Wales,* [2]*University of California, Davis*

09:45
HS01-D1-AM1-333-006
HS01-A012
A Novel Complex Networks-Based Method for Catchment Classification
Prashant ISTALKAR[1], Pothuganti PRASANNA[1], Basudev BISWAL[1#+], Bellie SIVAKUMAR[2,3]
[1]*Indian Institute of Technology Hyderabad,* [2]*University of New South Wales,* [3]*University of California, Davis*

10:00
HS01-D1-AM1-333-007
HS01-A009
Nonlinear Dynamic Concepts for Catchment Classification
Shakera Karim KHAN[1], Bellie SIVAKUMAR[1,2#+]
[1]*University of New South Wales,* [2]*University of California, Davis*

10:15
HS01-D1-AM1-333-008
HS01-A024
Improving Land Surface Hydrological Simulation with Remote Sensing Data and Surrogate Model-Based Multi-Objective Optimization
Wei GONG[1#+], Qingyun DUAN[1], Xueli HUO[1]
[1]*Beijing Normal University*

10:30
HS01-D1-AM1-333-009
HS01-A022
Enhanced Topmodel for Simulating Soil Erosion and Sediment Transport in the Lai Chi Wo Catchment in Hong Kong, China
Qian XU[1#+], Ho Pan CHAU[1], Ji CHEN[1], Mervyn PEART[1], Yi LU[1], Haiyun SHI[1,2]
[1]*The University of Hong Kong,* [2]*Qinghai University*

Session Chair(s) Ji CHEN, *The University of Hong Kong*
Dawen YANG, *Tsinghua University*

11:00 HS01-A023
HS01-D1-AM2-333-010 Copula Theory for Multivariate Stochastic Modeling in Water Engineering
Invited Vijay SINGH[1#+]
[1]*Texas A&M University*

11:15 HS01-A016
HS01-D1-AM2-333-011 An 'Instantaneous Dryness-Index' Based Universal Dynamic Zero-Parameter Budyko Model for Prediction in Ungauged Basins
Swagat PATNAIK[1], Vimal SHARMA[1], Basudev BISWAL[1#+]
[1]*Indian Institute of Technology Hyderabad*

11:30 HS01-A018
HS01-D1-AM2-333-012 Water Level Changes of Lake Nam Co in South-Central Tibetan Plateau
Binquan LI[1#+], Zhongmin LIANG[1], Jianyun ZHANG[2]
[1]*Hohai University,* [2]*Nanjing Hydraulic Research Institute*

11:45 HS01-A020
HS01-D1-AM2-333-013 Challenge and Difficulty of Achieving Accurate Simulation of Streamflow from a Large River Basin, the Pearl River Basin, in South China
Xiao FENG[1#+], Ji CHEN[1]
[1]*The University of Hong Kong*

12:00 HS01-A014
HS01-D1-AM2-333-014 Assessments of Sub-Hourly Extreme Rainfall Intensity in the Future Climate
Ngoc Son NGUYEN[1#+], Bhupendra RAUT[2], Srivatsan RAGHAVAN[1], Jiandong LIU[1], Shie-Yui LIONG[1]
[1]*National University of Singapore,* [2]*Monash University*

12:15 HS01-A031
HS01-D1-AM2-333-015 Estimation of Atmospheric Vapor Convergence Based on GRACE Water Storage and Streamflow Data Over Global River Basins
Pat J.-F. YEH[1#+], Min-Hui LO[2], Yadu POKHREL[3]
[1]*National University of Singapore,* [2]*National Taiwan University,* [3]*Michigan State University*

HS03 / Near Surface Investigation and Modeling for Groundwater Resources Assessment

Mon - 07 Aug | MR334

Session Chair(s) Ping-Yu CHANG, *National Central University*

11:00 HS03-A015
HS03-D1-AM2-334-001 Near-Surface Soil Moisture and its Rules in Hydrological Cycle
Invited Minjiao LU[1,2#+]
[1]*Nagaoka University of Technology,* [2]*Chongqing Jiaotong University*

11:15 HS03-A010
HS03-D1-AM2-334-002 The Reproducibility of Real Pumping Tests
Invited Yong-Lin CHEN[1#], Hong Ru LIN[1], Shao-Yang HUANG[1], Jim YEH[2], Jet-Chau WEN[1+]
[1]*National Yunlin University of Science and Technology,* [2]*University of Arizona*

11:30
HS03-D1-AM2-334-003
HS03-A013
Utilization of Reclaimed Land as Groundwater Reservoir
Aurelie BIRONNE[1#+], Abhishek SAHA[1], Wei Kit LEE[1], Vladan BABOVIC[1], Laura VONHOGEN[2], Esther VAN BAAREN[2], Peter VERMEULEN[2], Gualbert OUDE ESSINK[2], Ger DE LANGE[2], Bob HOOGENDOORN[2]
[1]National University of Singapore, [2]Deltares

11:45
HS03-D1-AM2-334-004
HS03-A011
Hydrogeochemical Characteristics of Groundwater and its Suitability for Drinking and Irrigation Purposes in Sonbhadra District, Uttar Pradesh, India
Amit Kumar SINGH[1#+], Sugnadha AGNIHOTRI[1], N. Janardhana RAJU[1]
[1]Jawaharlal Nehru University

12:00
HS03-D1-AM2-334-005
HS03-A006
Comparison of Soil Moisture Estimation Models by Digital Image Analysis
Cheng-Ying CHUANG[1#+], Hong Ru LIN[1], Yong-Lin CHEN[1], Shao-Yang HUANG[1], Jet-Chau WEN[1]
[1]National Yunlin University of Science and Technology

12:15
HS03-D1-AM2-334-006
HS03-A003
Plant-Assisted Bioremediation of LNAPL Contaminated Groundwater Using Practical Experiments
Brijesh Kumar YADAV[1#+], Shreejita BASU[2], Faiz ANSARI[2]
[1]Indian Institute of Technology Roorkee, [2]Indian Institute of Technology Delhi

HS07 / Water-related Hazards and Their Forecasting and Warning

Mon - 07 Aug | MR333

Session Chair(s)
Gwo-Fong LIN, *National Taiwan University*
Jui-Yi HO, *National Applied Research Laboratories*

14:00
HS07-D1-PM1-333-001
HS07-A001
Residence Time and Purification of Groundwater Contaminated by the Tsunami of the 2011 Tohoku Earthquakes
Ichirow KAIHOTSU[1#+], Shin-Ichi ONODERA[1], Akihiko KONDOH[2]
[1]Hiroshima University, [2]Chiba University

14:15
HS07-D1-PM1-333-002
HS07-A002
Simulation and Disaster Management for Suburban Landslide Under Extreme Weather Conditions
Jui-Yi HO[1#+], Kwan Tun LEE[2], Xiu-Man HWANG[1], Yu-Feng LIN[1], Gwo-Fong LIN[3]
[1]National Applied Research Laboratories, [2]National Taiwan Ocean University, [3]National Taiwan University

14:30
HS07-D1-PM1-333-003
HS07-A003
Probabilistic Monthly Flood Forecasting Models Using Statistical and Machine Learning Approaches
Mark Daniel SILVA[1#+], Willem VERVOORT[1], Floris VAN OGTROP[1]
[1]The University of Sydney

14:45
HS07-D1-PM1-333-004
HS07-A006
Fast Inundation Modeling Using the Integrated 1-D and 2-D Flooding Model
Hong-Ming KAO[1#+]
[1]National Applied Research Laboratories, Taiwan Typhoon and Flood Research Institute

15:00 HS07-A005
HS07-D1-PM1-333-005 Optimization of Predictors and Parameters for Hourly Typhoon Rainfall Forecasting Models – A Case Study in Taiwan
Kun-Hsiang LIN[1#+], Pao-Shan YU[1]
[1]*National Cheng Kung University*

15:15 HS07-A009
HS07-D1-PM1-333-006 The Development of Loss Functions for the Estimation of Damage to Rivers
Yeon Su KIM[1#+], Sang Ho KIM[1], Shinbum HWANG[1], Changhee LEE[2]
[1]*Sangji University*, [2]*Jungwon University*

HS16-04 / Hydrometeorological Analysis of Natural Hazards

Mon - 07 Aug | MR334

Session Chair(s) Kyungrock PAIK, *Korea University*

08:30 HS16-04-A005
HS16-04-D1-AM1-334-001 Modelling High-Resolution Inland Flood Risk from Typhoons in Taiwan and South Korea
Sourima GHOSH[1#+], Anongnart ASSTEERAWATT[1], Kechi NZEREM[1], Maximiliano SASSI[1], Francesca TERENZI[1], Sagar BORA[1], Ingrid CHARVET[1]
[1]*Risk Management Solutions*

08:45 HS16-04-A006
HS16-04-D1-AM1-334-002 Development of Damage Prediction Function Based on Heavy Rain Damage Risk Index
Jongsung KIM[1+], Changhyun CHOI[1], Myungjin LEE[1], Soojun KIM[1], Hung Soo KIM[1#]
[1]*Inha University*

09:00 HS16-04-A007
HS16-04-D1-AM1-334-003 Changes of Urban Extreme Precipitation and Climate Change Impact in Northwest of China : 1954-2013
Rengui JIANG[1#+], Jiancang XIE[1], Shengdong CHENG[1]
[1]*Xi'an University of Technology*

09:15 HS16-04-A012
HS16-04-D1-AM1-334-004 Cause Resolving of Typhoon Rainfall by Using Spatiotemporal Principle Components Analysis and Artificial Neural Network
Chien-Lin HUANG[1+], Nien-Sheng HSU[1#]
[1]*National Taiwan University*

09:30 HS16-04-A014
HS16-04-D1-AM1-334-005 Decadal Variations in Surface Humidity Over South Korea
Yin San WOO[1+], Kyungrock PAIK[1#]
[1]*Korea University*

09:45 HS16-04-A015
HS16-04-D1-AM1-334-006 Teleconnection Influence on Droughts in Singapore Region
Linghua QIU[1+], Ji CHEN[1#]
[1]*The University of Hong Kong*

10:00 HS16-04-A025
HS16-04-D1-AM1-334-007
Improvement of Satellite-Based Rainfall for Flood Forecasting System in Chao Phraya River Basin, Thailand
Ticha LOLUPIMAN[1#+], Watin THANATHANPHON[1], Piyamarn SISOMPHON[1], Teerawat RAM-INDRA[2], Piyatida RUANGRASSAMEE[2]
[1]Hydro and Agro Informatics Institute, [2]Chulalongkorn University

10:15 HS16-04-A020
HS16-04-D1-AM1-334-008
Study on Heavy Rain QPE of C-band Polarimetric Radar in Combination with Disdrometers Network Observation
Bin WANG[1#+], Zhikang FU[1], Muyun DU[1], Liang LENG[1]
[1]China Meteorological Administration

10:30 HS16-04-A018
HS16-04-D1-AM1-334-009
A Study for Hydrochemical Interpretation of Groundwater System and its Circulation Period with Isotopic Data of Deep-circulating Groundwater in Korea
Hanna CHOI[1#+], Nam C. WOO[2]
[1]Seoul National University, [2]Yonsei University

HS17 / Interactions Between Water and Ecosystem

Mon - 07 Aug | MR334

Session Chair(s) Kyungrock PAIK, *Korea University*
Jian-Ping SUEN, *National Cheng Kung University*
Ting Fong May CHUI, *The University of Hong Kong*

14:00 HS17-A001
HS17-D1-PM1-334-001 Invited
A Rainfall-Stream Depth-Water Turbidity Monitoring Approach to Understand Suspended Sediment Transport During Large Storm Events in a Pristine Fiji Rainforest Stream
James TERRY[1#+], Arishma RAM[2]
[1]Zayed University, [2]University of Auckland

14:15 HS17-A004
HS17-D1-PM1-334-002
Developing Empirical Equations to Characterize Hyporheic Exchange in a Single Pool-Riffle Sequence
Ting Fong May CHUI[1#+], Peng HUANG[1]
[1]The University of Hong Kong

14:30 HS17-A005
HS17-D1-PM1-334-003
The Full Annual Carbon Balance of a Subtropical Coniferous Plantation is Highly Sensitive to Autumn Precipitation
Mingjie XU[1,2+], Huimin WANG[3#], Tao ZHANG[2], Yidong WANG[4], Xuefa WEN[3]
[1]Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences, [2]Shenyang Agricultural University, [3]Chinese Academy of Sciences, [4]Tianjin Normal University

14:45 HS17-A007
HS17-D1-PM1-334-004
Natural and Artificial Spawning Shelter Selection by the Red-Spotted Goby in Spring-Fed Wetland Area
Jian-Ping SUEN[1#+], Chung-Yu KO[1]
[1]National Cheng Kung University

15:00
HS17-D1-PM1-334-005
HS17-A009
The Development of Spatial-Temporal Framework for Regional Precipitation Simulation
Kuan-Cheng FU[1#+], Gene J-Y YOU[1]
[1]*National Taiwan University*

15:15
HS17-D1-PM1-334-006
HS17-A010
The Impact of the Uncertainty of Probabilistic Forecast in Water Resource Management
Chi Chun CHANG[1#+], Gene J-Y YOU[1]
[1]*National Taiwan University*

15:30
HS17-D1-PM1-334-007
HS17-A011
The Competition and Interaction Among Agents in Groundwater Exploitation
Kuan-Yu WU[1#+], Gene J-Y YOU[1]
[1]*National Taiwan University*

IG03 / Remote Sensing of Essential Climate Variables and Its Applications

Mon - 07 Aug | MR332

Session Chair(s) Wei YANG, *Chiba Univeristy*
Xin CAO, *Bejing Normal University*

11:00 IG03-A003
IG03-D1-AM2-332-001
Long Term Time Series of Terrestrial Essential Climate Variables: Challenges and Lesson Learnt from SPOT/VGT to Sentinel-3
Fernando CAMACHO DE COCA[1#+], Roselyne LACAZE[2], Bruno SMETS[3], Else SWINNEN[3], Aleixander VERGER[4]
[1]EOLAB / CEOS LPV, [2]HYGEOS, [3]ViTo, [4]CREAF

11:15 IG03-A007
IG03-D1-AM2-332-002
A Series of Automated Techniques to Generate Dense Satellite Time-Series with High Spatial Resolutions for Land Surface Monitoring
Xiaolin ZHU[1#+]
[1]The Hong Kong Polytechnic University

11:30 IG03-A009
IG03-D1-AM2-332-003
Estimation of Land Surface Temperature from Sentinel-3 SLSTR: Algorithm Training and Comparison
Ji ZHOU[1#+], Yujia WANG[1], Jin MA[1], Xiaodong ZHANG[1]
[1]University of Electronic Science and Technology of China

11:45 IG03-A010
IG03-D1-AM2-332-004
Simulating the Forest Canopy Sun-Induced Chlorophyll Florescence Using a 3D Canopy Radiative Transfer Model
Hikeki KOBAYASHI[1#+], Tomomichi KATO[2], Yuma SAKAI[2], Wei YANG[3]
[1]Japan Agency for Marine-Earth Science and Technology, [2]Hokkaido University, [3]Chiba University

12:00 IG03-A017
IG03-D1-AM2-332-005
A Dynamic Threshold Cloud Shadow Setection Algorithm with the Support of Surface Reflectance
Lin SUN[1], Quan WANG[1#+], Xueying ZHOU[1], Xu YANG[1], Kai WANG[1], Tingting CHEN[1], Yanci MA[1]
[1]Shandong University of Science and Technology

Session Chair(s) Hideki KOBAYASHI, *Japan Agency for Marine-Earth Science and Technology*
Xiaolin ZHU, *The Hong Kong Polytechnic University*

14:00 IG03-A008
IG03-D1-PM1-332-006
Characterising Ocean Phytoplankton Biomass for Different ENSO Flavors
Priya SHARMA[1], Awnesh SINGH[2#+], Irina MARINOV[1], Tihomir KOSTADINOV[3]
[1]University of Pennsylvania, [2]The University of the South Pacific, [3]University of Richmond

14:15 IG03-A011
IG03-D1-PM1-332-007
Comparison the Daily and Monthly Products of Climate Hazards Group Infrared Precipitation with Station Data (CHIRPS) Using Rain Gauge Data Over Taiwan
Lamtupa NAINGGOLAN[1#+], Chuen-Fa NI[1]
[1]National Central University

14:30 IG03-A002
IG03-D1-PM1-332-008 Mapping Understory Vegetation in High Northern Forests and Analyzing its Decadal Changes Based on Satellite Observations
Wei YANG[1#+], Hikeki KOBAYASHI[2], Akihiko KONDOH[1]
[1]Chiba University, [2]Japan Agency for Marine-Earth Science and Technology

14:45 IG03-A013
IG03-D1-PM1-332-009 Evaluation of the Degree of Karstification of the Carbonate Units in South Central Palawan
Samantha Claire ATIVO[1#+], Ralph Lauren ABAINZA[2], Jogie Vera YEE[1], Richard YBAÑEZ[1], Carlo ARCILLA[1]
[1]University of the Philippines Diliman, [2]University of the Philippines

15:00 IG03-A005
IG03-D1-PM1-332-010 Automatic Extraction of Impervious Surface Fraction from GlobeLand30 Using Fisher-Discriminant
Xin CAO[1#+]
[1]Beijing Normal University

IG10 / Satellite Gravimetry and Climate Change

Mon - 07 Aug | MR332

Session Chair(s) Jianli CHEN, *University of Texas at Austin*
Kosuke HEKI, *Hokkaido University*
Henryk DOBSLAW, *Helmholtz Centre Potsdam*

08:30 IG10-A017
IG10-D1-AM1-332-001 The Status and Current Contributions of the Grace Mission
Byron TAPLEY[1#+]
Invited *[1]University of Texas at Austin*

08:50 IG10-A015
IG10-D1-AM1-332-002 The Global Groundwater Crisis
James FAMIGLIETTI[1#+], Matthew RODELL[2], Alexandra RICHEY[3], John REAGER[1]
Invited *[1]Jet Propulsion Laboratory, California Institute of Technology, [2]NASA Goddard Space Flight Center, [3]Washington State University*

09:10 IG10-A004
IG10-D1-AM1-332-003 Advances in Isolating the Sources of 21st Century Climate Change and Sea-Level Rise Using Grace, GNSS and Earth Rotation
Erik IVINS[1#+], Surendra ADHIKARI[1]
Invited *[1]Jet Propulsion Laboratory, California Institute of Technology*

09:30 IG10-A003
IG10-D1-AM1-332-004 Long-Term Consistency of the Atmospheric Background Model AOD1B for Climate Monitoring From Satellite Gravimetry
Henryk DOBSLAW[1#+]
[1]GFZ Helmholtz Centre Potsdam

09:45 IG10-A001
IG10-D1-AM1-332-005 Emerging Instability in Global Land Water Storage
Shuang YI[1#+], Kosuke HEKI[1], Le CHANG[2]
[1]Hokkaido University, [2]University of Chinese Academy of Sciences

10:00 IG10-A011

IG10-D1-AM1-332-006 Estimation of Amazon River Discharge Based on EOF Analysis of Grace Gravity Data

Jooyoung EOM[1], Ki-Weon SEO[2#+], Dongryeol RYU[3]

[1]Korea Polar Research Institute, [2]Seoul National University, [3]The University of Melbourne

OS01 / Dynamics of Indonesian Seas and Indo-Pacific Climate Variability

Mon - 07 Aug | MR328

Session Chair(s) Edvin ALDRIAN, *Agency for the Assessment and Application of Technology (BPPT)*
Fred TANGANG, *University Kebangsaan Malaysia*

08:30
OS01-D1-AM1-328-001
OS01-A009
The Maritime Continent as Anti-MJO
Manabu D. YAMANAKA[1,2#+]
[1]Japan Agency for Marine-Earth Science and Technology, [2]Kobe University

08:45
OS01-D1-AM1-328-002
Invited
OS01-A001
The Indonesian Throughflow, a Product and a Driver of the Larger Scale System
Arnold L. GORDON[1#+]
[1]Columbia University

09:00
OS01-D1-AM1-328-003
OS01-A010
Indonesian Throughflow in the Eastern Indonesian Seas During 2014-2016
Dongliang YUAN[1#+], Xiang LI[1], Zheng WANG[1], Yao LI[1], Jing WANG[1]
[1]Chinese Academy of Sciences

09:15
OS01-D1-AM1-328-004
OS01-A003
Indonesian Throughflow Proxy and Tidal Mixing
R. Dwi SUSANTO[1#+], Richard RAY[2], Tony SONG[3]
[1]University of Maryland, [2]NASA Goddard Space Flight Center, [3]California Institute of Technology

09:30
OS01-D1-AM1-328-005
Invited
OS01-A008
What Determines the Warming Trend in the Indonesian Seas?
Iskhaq ISKANDAR[1#+]
[1]Sriwijaya University

09:45
OS01-D1-AM1-328-006
OS01-A007
High Resolution Records of Climate Change and Coral Calcification in Indonesia
Intan Suci NURHATI[1#+], Edward BOYLE[2], Sri Yudawati CAHYARINI[1], Merlene WALL[3], Jan FIETZKE[3], Fadel MUHAMMAD[4]
[1]Indonesian Institute of Sciences, [2]Massachusetts Institute of Technology, [3]GEOMAR Helmholtz for Ocean Research Kiel, [4]Universitas Brawijaya

10:00
OS01-D1-AM1-328-007
OS01-A005
Eastern Indian Ocean Hydrographic Data Analysis Based on Various Research Vessels Cruises 1990 – 2015
Anastasia KUSWARDANI[1#+], Wahyu Widodo PANDOE[2]
[1]Agency for Marine and Fisheries Research and Human Resources, [2]Agency for the Assessment and Application of Technology (BPPT)

10:15
OS01-D1-AM1-328-008
OS01-A004
The Origin of the Suspended Particulate Matter in the Seagrass Meadow, An Evidence of the Stable Isotope Signatures
Aan Johan WAHYUDI[1#+]
[1]Indonesian Institute of Sciences

OS04 / Indonesian Seas: Insights from Observations, Models, and Theory

Mon - 07 Aug | MR328

Session Chair(s) Agus ATMADIPOERA, *Bogor Agricultural University*
Robin ROBERTSON, *UNSW Canberra*

11:00 OS04-A005
OS04-D1-AM2-328-001
Detection of Pacific Water Masses Around the Lembeh Strait
Aijun PAN[1#+]
[1]*State Oceanic Administration*

11:15 OS04-A006
OS04-D1-AM2-328-002
The Effects of Tidally-Induced Mixing in the Halmahera Sea on the Transformation of the Indonesian Throughflow Waters
Taira NAGAI[1#+], Toshiyuki HIBIYA[1]
[1]*The University of Tokyo*

11:30 OS04-A007
OS04-D1-AM2-328-003
Stratification and Turbulent Mixing of Water Masses in Selayar Slope - Southern Makassar Strait
Isnaini PRIHATININGSIH[1+], Indra JAYA[1#], Agus ATMADIPOERA[1], Rina ZURAIDA[2]
[1]*Bogor Agricultural University,* [2]*Marine Geological Institute*

11:45 OS04-A001
OS04-D1-AM2-328-004
Surface Chlorophyll-a Bloom in the Southeastern Tropical Indian Ocean (SETIO) During Various Types of the Positive Indian Ocean Dipole (IOD)
Qurnia Wulan SARI[1+], Indra YUSTIAN[1], Dedi SETIABUDIDAYA[1], Eko SISWANTO[2], Iskhaq ISKANDAR[1#]
[1]*Sriwijaya University,* [2]*Japan Agency for Marine-Earth Science and Technology*

12:00 OS04-A002
OS04-D1-AM2-328-005
Fate of Internal Solitary Wave in Manado Bay, Sulawesi, Indonesia
Adi PURWANDANA[1,2#+], Yannis CUYPERS[1], Pascale BOURUET-AUBERTOT[1], Daniel BOURGAULT[3]
[1]*Université Pierre et Marie Curie (UPMC),* [2]*Indonesian Institute of Sciences (LIPI),*
[3]*Université du Québec à Rimouski*

12:15 OS04-A003
OS04-D1-AM2-328-006
Multi-Decadal Time Series of the Indonesian Throughflow
Mingting LI[1,2#+], Arnold L. GORDON[2], Guoqing JIANG[1], Laura GRUENBURG[2], Jun WEI[1]
[1]*Peking University,* [2]*Columbia University*

OS10 / Ocean Salinity Variability and Its Impact on Weather, Climate and Biogeochemistry

Mon - 07 Aug | MR328

Session Chair(s) Nathalie GOODKIN, *Nanyang Technical University*
Hailong LIU, *Shanghai Jiaotong University*
SungHyun NAM, *Seoul National University*

14:00
OS10-D1-PM1-328-001
OS10-A001
Surface Density Decadal Change Controlled by Salinity in the North Pacific Ocean in the Past 34 Years
Baolan WU[1#+], Xiaopei LIN[1]
[1]*Ocean University of China*

14:15
OS10-D1-PM1-328-002
OS10-A002
Freshwater Plume Pathways in the Bay of Bengal Using a Regional Ocean Circulation Model
Vimlesh PANT[1#+], K. K. SANDEEP[1]
[1]*Indian Institute of Technology Delhi*

14:30
OS10-D1-PM1-328-003
OS10-A003
A Multi-Century Seasonal Sea Surface Salinity Reconstruction from the Lombok Strait
Sujata MURTY[1#+], Nathalie GOODKIN[1], J. Stephen LANSING[1], Alit WIGUNA[2]
[1]*Nanyang Technological University,* [2]*Balai Pengkajian Teknologi Pertanian (BPTP) Bali*

14:45
OS10-D1-PM1-328-004
OS10-A004
Impacts of Sea-Surface Salinity in an Eddy-Resolving Semi-Global OGCM
Ryo FURUE[1,2#+], Kohei TAKATAMA[2], Hideharu SASAKI[1], Niklas SCHNEIDER[2], Masami NONAKA[1], Bunmei TAGUCHI[1]
[1]*Japan Agency for Marine-Earth Science and Technology,* [2]*University of Hawaii*

15:00
OS10-D1-PM1-328-005
OS10-A007
Revisiting the Future Projections of Tropical Cyclones Intensity
Hailong LIU[1#+]
[1]*Shanghai Jiao Tong University*

15:15
OS10-D1-PM1-328-006
OS10-A008
Variability of Salinity in the Karimata Strait-Indonesia: In-situ Observations and Satellite Salinity
R. Dwi SUSANTO[1#+], Agus SETIAWAN[2], Budi SULISTYO[2], Trameyo ADI[2], Teguh AGUSTIADI[2], Mukti TRENGGONO[2], Triyono TRIYONO[2], Anna KUSWARDANI[2]
[1]*University of Maryland,* [2]*Ministry of Marine Affairs and Fisheries*

PS11 / Exploring the Solar System Primitive Bodies

Mon - 07 Aug | MR310

Session Chair(s) Hsing-Wen LIN, *National Central University*

08:30
PS11-D1-AM1-310-001
Invited

PS11-A019
Status of the Transneptunian Automated Occultation Survey (TAOS II)
Shiang-Yu WANG[1#+]
[1]*Academia Sinica*

08:45
PS11-D1-AM1-310-002
Invited

PS11-A007
On the Inclination Distrubtion of the Neptune Trojans
Hsing-Wen LIN[1#+], Wing-Huen IP[1]
[1]*National Central University*

09:00
PS11-D1-AM1-310-003
Invited

PS11-A001
Temporary Capture of Asteroids by an Eccentric Planet
Arika HIGUCHI[1#+], Shigeru IDA[1]
[1]*Tokyo Institute of Technology*

09:15
PS11-D1-AM1-310-004

PS11-A017
Asteroid Surfaces: Irradiation and VIS-IR Micro-Spectroscopy in the Laboratory
Rosario BRUNETTO[1#+]
[1]*National Center for Scientific Research*

09:30
PS11-D1-AM1-310-005

PS11-A024
The Various Ages of Occator Crater, Ceres. Results of a Comprehensive Study in Contrast to Swiftly Crater-Based Absolute Model Age Estimates in Literature
Adrian NEESEMANN[1#+], Stephan VAN GASSELT[2], Nico SCHMEDEMANN[1], Thomas KNEISSL[1], Gregory MICHAEL[1], Sebastian WALTER[1], Frank PREUSKER[3], Harald HIESINGER[4], Ralf JAUMANN[3], Carol RAYMOND[5], Christopher RUSSELL[6]
[1]*Freie Universität Berlin,* [2]*University of Seoul,* [3]*German Aerospace Center (DLR),* [4]*University of Münster,* [5]*Jet Propulsion Laboratory, California Institute of Technology,* [6]*University of California, Los Angeles*

09:45
PS11-D1-AM1-310-006
Invited

PS11-A009
Hayabusa2 Multi-Scale Asteroid Science
Hikaru YABUTA[1#+], Ralf JAUMANN[2], Jean-Pierre BIBRING[3], Tatsuaki OKADA[4], Sei-Ichiro WATANABE[5]
[1]*Hiroshima University,* [2]*German Aerospace Center (DLR),* [3]*University of Paris-Sud,* [4]*Japan Aerospace Exploration Agency,* [5]*Nagoya University*

10:00
PS11-D1-AM1-310-007

PS11-A008
Overview of Jovian Trojan Asteroid Exploration Mission by Solar-Power-Sail Spacecraft
Jun MATSUMOTO[1#+], Osamu MORI[1], Hideki KATO[1], Takanao SAIKI[1], Yuichi TSUDA[1], Yuya MIMASU[1], Naoko OGAWA[1], Takahiro IWATA[1], Tatsuaki OKADA[1], Hajime YANO[1], Makoto YOSHIKAWA[1], Jun-Ichiro KAWAGUCHI[1]
[1]*Japan Aerospace Exploration Agency*

10:15
PS11-D1-AM1-310-008

PS11-A021
The Dependence of Gamma-Ray and Neutron Emission on Hydrogen Concentration
Masayuki NAITO[1#+], Junya ISHII[1], Hiroshi NAGAOKA[1], Daisuke AOKI[1], Nobuyuki HASEBE[1]
[1]*Waseda University*

Session Chair(s) Makoto YOSHIKAWA, *Japan Aerospace Exploration Agency*
Masatoshi HIRABAYASHI, *Auburn University*

11:00 PS11-A018
PS11-D1-AM2-310-009 The Rotational Evolution of the Bilobate Nucleus of 67P/Churyumov-Gerasimenko Due to Sublimation
Invited
Masatoshi HIRABAYASHI[1#+], Daniel SCHEERES[2], Steve CHESLEY[3], Simone MARCHI[4], Jay MCMAHON[2]
[1]*Auburn University,* [2]*University of Colorado Boulder,* [3]*Jet Propulsion Laboratory, California Institute of Technology,* [4]*Southwest Research Institute*

11:15 PS11-A003
PS11-D1-AM2-310-010 Surface Composition of Comet Churyumov-Gerasimenko as Revealed by the Rosetta Mission
Invited
Eric QUIRICO[1#+]
[1]*Centre Nationnal de la Recherche Scientifique*

11:30 PS11-A010
PS11-D1-AM2-310-011 Chemical Composition of the Semi-Volatile Grains of Comet 67P / Churyumov-Gerasimenko
Peter WURZ[1#+], Kathrin ALTWEGG[1], Hans BALSIGER[1], Jean-Jacques BERTHELIER[2], Johan DE KEYSER[3], Björn FIETHE[4], Stephen FUSELIER[5], Sebastien GASC[1], Tamas GOMBOSI[6], Axel KORTH[7], Lena LE ROY[1], Urs MALL[7], Henri REME[8], Rubin MARTIN[1], Chia-Yu TZOU[1]
[1]*University of Bern,* [2]*Laboratoire Atmosphères, Milieux, Observations Spatiales (LATMOS),* [3]*Belgian Institute for Space Aeronomy,* [4]*Technische Universität Braunschweig,* [5]*Southwest Research Institute,* [6]*University of Michigan,* [7]*Max Planck Institute for Solar System Research,* [8]*Centre d'Études Supérieures de la Renaissance*

11:45 PS11-A023
PS11-D1-AM2-310-012 Physical Properties of Dust in Comets: A Post-Rosetta Understanding
Anny-Chantal LEVASSEUR-REGOURD[1#+]
[1]*Université Pierre et Marie Curie*

12:00 PS11-A011
PS11-D1-AM2-310-013 Melting and Differentiation History of Planetesimals
Wladimir NEUMANN[1,2#+]
[1]*University of Münster,* [2]*German Aerospace Center (DLR)*

12:15 PS11-A006
PS11-D1-AM2-310-014 Oort Cloud and Scattered Disc Formation During a Late Dynamical Instability in the Solar System
Invited
Ramon BRASSER[1#+], Alessandro MORBIDELLI[2]
[1]*Earth Life Science Institute,* [2]*Observatoire de la Cote d'Azur*

PS15 / Volcanism and Tectonism Across the Solar System

Mon - 07 Aug | MR310

Session Chair(s) Anezina SOLOMONIDOU, *NASA-JPL, Caltech*
Florian SCHWANDNER, *NASA-JPL, Caltech*

14:00 PS15-A001
PS15-D1-PM1-310-001 Cryovolcanism Across the Solar System
Invited
Rosaly LOPES[1#+]
[1]*Jet Propulsion Laboratory, California Institute of Technology*

14:15
PS15-D1-PM1-310-002
Invited

PS15-A002
A 15 Year Record of Thermal Emission from Earth's Volcanoes
Robert WRIGHT[1#+]
[1]*University of Hawaii at Manoa*

14:30
PS15-D1-PM1-310-003

PS15-A010
Spectral Characterization of Volcanic Units in the Serenitatis Basin
Megha BHATT[1#+], Urs MALL[2], Christian WOEHLER[3], Anil BHARDWAJ[1]
[1]*Vikram Sarabhai Space Centre,* [2]*Max Planck Institute for Solar System Research,* [3]*Technical University of Dortmund*

14:45
PS15-D1-PM1-310-004

PS15-A009
Sampling and Sensing of Prebiotic Compounds in Terrestrial and Planetary Volcanic Gases
Florian M. SCHWANDNER[1,2#+]
[1]*Jet Propulsion Laboratory, California Institute of Technology,* [2]*University of California, Los Angeles*

15:00
PS15-D1-PM1-310-005

PS15-A003
Habitable Environments in the Icy Moons of Giant Planets
Athena COUSTENIS[1#+], Anezina SOLOMONIDOU[2], Rosaly LOPES-GAUTIER[2], Sébastien RODRIGUEZ[3], Pierre DROSSART[1], Bernard SCHMITT[4], Sylvain PHILIPPE[4], Ralf JAUMANN[5], Katrin STEPHAN[5], Robert H. BROWN[6]
[1]*Paris Observatory,* [2]*Jet Propulsion Laboratory, California Institute of Technology,* [3]*CEA Saclay,* [4]*Joseph Fourier University,* [5]*German Aerospace Center (DLR),* [6]*University of Arizona*

15:15
PS15-D1-PM1-310-006

PS15-A008
Tectonic Landforms of Titan Reveal Recent History of Contraction and Extension
Jani RADEBAUGH[1#+], Zac Yung-Chun LIU[1]
[1]*Brigham Young University*

ST04-13-21 / Global Solar Wind-planetary Interactions: A Comparative View of Recent Observations, Modeling and Numerical Simulations

Mon - 07 Aug | MR308

Session Chair(s) Ramon LOPEZ, *University of Texas at Arlington*

08:30
ST04-13-21-D1-AM1-308-001
ST04-13-21-A002
Effect of Field-Aligned-Beam in Parallel Diffusion of Energetic Particles in Earth's Foreshock
Shuichi MATSUKIYO[1#+], Fumiko OTSUKA[1], Arpad KIS[2], Tohru HADA[1]
[1]Kyushu University, [2]Hungarian Academy of Sciences

08:45
ST04-13-21-D1-AM1-308-002
ST04-13-21-A005
Identifying 3D Vortices Structures At/Around the Magnetopause Using the Tetrahedral Satellite Configuration
Dongsheng CAI[1#+], Bertrand LEMBEGE[2]
[1]University of Tsukuba, [2]National Centre for Scientific Research

09:00
ST04-13-21-D1-AM1-308-003
Invited
ST04-13-21-A010
Particle in Cell Simulations of the Terrestrial Magnetopause: Current Results, Future Perspectives
Maria Elena INNOCENTI[1#+], Emanuele CAZZOLA[2], Giovanni LAPENTA[1]
[1]KU Leuven, [2]University of Surrey

09:20
ST04-13-21-D1-AM1-308-004
Invited
ST04-13-21-A007
Innovative Technology for the Study of Planetary Plasma Environments
Jorge AMAYA[1#+], Diego GONZALEZ-HERRERO[1], Elisabetta BOELLA[1], Fabio BACCHINI[1], Anke ZITZ[2], Estela SUAREZ[2], Giovanni LAPENTA[1]
[1]KU Leuven, [2]Juelich Supercomputing Centre

09:40
ST04-13-21-D1-AM1-308-005
Invited
ST04-13-21-A008
Vlasiator – From Local to Global Magnetospheric Hybrid-Vlasov Simulations
Yann PFAU-KEMPF[1#+], Sanni HOILIJOKI[1], Urs GANSE[1], Liisa JUUSOLA[2], Riku JARVINEN[2], Sebastian VON ALFTHAN[3], Heli HIETALA[4], Markus BATTARBEE[5], Alexandr AFANASIEV[6], Rami VAINIO[6], Minna PALMROTH[1]
[1]University of Helsinki, [2]Finnish Meteorological Institute, [3]CSC – IT Center for Science, [4]University of California Los Angeles, [5]University of Central Lancashire, [6]University of Turku

10:00
ST04-13-21-D1-AM1-308-006
ST04-13-21-A019
Simulation of the Geomagntically Induced Currents in Low-Latitude Power Network During Storms
Jiaojiao ZHANG[1#+], Chi WANG[1], Yiqun YU[2]
[1]Chinese Academy of Sciences, [2]Beihang University

Session Chair(s) Dongsheng CAI, *University of Tsukuba*

11:00
ST04-13-21-D1-AM2-308-007
Invited
ST04-13-21-A016
Distribution of FTE Periods on the Dayside Magnetopause Under Constant Solar Wind Condition: Global MHD Simulation Results
Tianran SUN[1#+]
[1]Chinese Academy of Sciences

11:20 ST04-13-21-A014
ST04-13-21-D1-AM2-308-008 Characterizing the Meso-Scale Flows in Earth's Coupled Magnetosphere-Ionosphere-Thermosphere System
Invited
Christine GABRIELSE[1#+], Yukitoshi NISHIMURA[1], Larry LYONS[1], Bea GALLARDO-LACOURT[1], Yue DENG[2]
[1]University of California, Los Angeles, [2]University of Texas at Arlington

11:40 ST04-13-21-A017
ST04-13-21-D1-AM2-308-009 Two Important Scientific Aspects of SMILE Mission: Energy Transfer and Open Flux
Chi WANG[1#+], Tianran SUN[1], Jinpeng HAN[2], Zhiyang XIA[3]
[1]Chinese Academy of Sciences, [2]Academy of Launch Vehicle Technology, [3]University of Texas at Dallas

11:55 ST04-13-21-A020
ST04-13-21-D1-AM2-308-010 Magnetospheric Balance of Solar Wind Dynamic Pressure
Ramon LOPEZ[1#+], Jiangyan WANG[2], Chi WANG[2], Richard BONDE[1], Walter GONZALEZ[3]
[1]University of Texas at Arlington, [2]Chinese Academy of Sciences, [3]National Institute For Space Research

12:10 ST04-13-21-A001
ST04-13-21-D1-AM2-308-011 Role of the Electron Diffusion Region in the Magnetic Reconnection: Themis Observations in the Magnetotail
Invited
Mitsuo OKA[1#+]
[1]University of California, Berkeley

ST09 / Magnetic Reconnection in Space Plasma: Observations and Simulations

Mon - 07 Aug | MR309

Session Chair(s) Quanming LU, *University of Science and Technology of China*
Keizo FUJIMOTO, *University of Tokyo*
Huishan FU, *Beihang University*

11:00 ST09-A018
ST09-D1-AM2-309-001 MMS Observations of Electron Heating Near the Reconnection X-Line Versus in the Downstream Exhaust
Invited
Tai PHAN[1#+], Colby HAGGERTY[2], Michael SHAY[2], Masaki FUJIMOTO[3], James BURCH[4], Jonathan EASTWOOD[5], Kevin GENESTRETI[6], Barbara GILES[7], Daniel GERSHMAN[7], John DORELLI[7], Thomas MOORE[7], Levon AVANOV[7]
[1]University of California, Berkeley, [2]University of Delaware, [3]Japan Aerospace Exploration Agency, [4]Southwest Research Institute, [5]Imperial College London, [6]Austrian Academy of Sciences, [7]NASA Goddard Space Flight Center

11:20 ST09-A002
ST09-D1-AM2-309-002 Quadrupolar Structure of the Reconnection Hall Magnetic Field at Magnetopause
Invited
Rongsheng WANG[1#+]
[1]University of Science and Technology of China

11:35
ST09-D1-AM2-309-003
Invited

ST09-A008
Event Study of Vortex-Induced Reconnection at the Magnetopause Using MMS Observations and Fully Kinetic Simulations
Takuma NAKAMURA[1#+], Hiroshi HASEGAWA[2], Stefan ERIKSSON[3], William DAUGHTON[4], Wenya LI[5], Rumi NAKAMURA[1]
[1]Austrian Academy of Sciences, [2]Japan Aerospace Exploration Agency, [3]University of Colorado Boulder, [4]Los Alamos National Laboratory, [5]Swedish Institute of Space Physics

11:50
ST09-D1-AM2-309-004

ST09-A004
Intermittent Energy Dissipation by Turbulent Reconnection
Huishan FU[1#+], Andris VAIVADS[2], Yuri KHOTYAINTSEV[2], Mats ANDRE[2], Jinbin CAO[1], Vyacheslav OLSHEVSKY[3], Jonathan EASTWOOD[4], Alessandro RETINO[5]
[1]Beihang University, [2]Swedish Institute of Space Physics, [3]KU Leuven, [4]Imperial College London, [5]Plasma Physics Laboratory

12:05
ST09-D1-AM2-309-005

ST09-A009
In-situ Observations of Whistler-Mode Waves in the Reconnection Diffusion Region
Shiyong HUANG[1#+], Huishan FU[2], Zhigang YUAN[1], Andris VAIVADS[3], Yuri KHOTYAINTSEV[3], Alessandro RETINO[4], Meng ZHOU[5], Daniel GRAHAM[3], Keizo FUJIMOTO[6], Fouad SAHRAOUI[4], Xiaohua DENG[1], Ni BINBIN[1], Ye PANG[5], Fu SONG[1], Dedong WANG[1]
[1]Wuhan University, [2]Beihang University, [3]Swedish Institute of Space Physics, [4]Plasma Physics Laboratory, [5]Nanchang University, [6]National Astronomical Observatory of Japan

12:20
ST09-D1-AM2-309-006

ST09-A023
Particle in Cell Simulations of Magnetic Reconnection in Partially Ionized Plasmas: Chromospheric Applications?
Maria Elena INNOCENTI[1#+], Wei JIANG[2], He-Ping LI[3], Giovanni LAPENTA[1]
[1]KU Leuven, [2]Huazhong University of Science & Technology, [3]Tsinghua University

Session Chair(s)
Huishan FU, *Beihang University*
Jiansen HE, *Peking University*
Shiyong HUANG, *Wuhan University*

14:00
ST09-D1-PM1-309-007
Invited

ST09-A014
Ion and Electron Acceleration in Driven Magnetic Reconnection
Masahiro HOSHINO[1#+]
[1]The University of Tokyo

14:20
ST09-D1-PM1-309-008
Invited

ST09-A022
Temperature Anisotropy Enables Reconnection to Be Triggered in a Thick Current Sheet
Masaki FUJIMOTO[1#+], Kenya SHIMIZU[1], Iku SHINOHARA[1]
[1]Japan Aerospace Exploration Agency

14:35
ST09-D1-PM1-309-009
Invited

ST09-A012
Kinetic Alfven Wave Explanation of the Hall Fields in Magnetic Reconnection
Lei DAI[1#+], Chi WANG[1], Yong Cun ZHANG[1], Benoit LAVRAUD[2], James BURCH[3], Craig POLLOCK[4], Roy B. TORBERT[5]
[1]Chinese Academy of Sciences, [2]National Centre for Scientific Research, [3]Southwest Research Institute, [4]Denali Scientific, [5]University of New Hampshire

14:50 ST09-A020

ST09-D1-PM1-309-010

Evidence of Kinetic Alfvén Eigenmode in the Near-Earth Magnetotail During Substorm Expansion Phase

Suping DUAN[1#+], Lei DAI[2], Chi WANG[2], Jun LIANG[3], Anthony LUI[4], Lunjin CHEN[5], Zhaohai HE[2], Yong Cun ZHANG[2], Vassilis ANGELOPOULOS[6]

[1]National Space Science Center,Chinese Academy of Sciences, [2]Chinese Academy of Sciences, [3]University of Calgary, [4]Johns Hopkins University, [5]University of Texas at Dallas, [6]University of California, Los Angeles

15:05 ST09-A013

ST09-D1-PM1-309-011

Generation of the Bursty Bulk Flows in Collisionless Magnetic Reconnection

Keizo FUJIMOTO[1#+]

[1]Beihang University

15:20 ST09-A001

ST09-D1-PM1-309-012

Electron Acceleration in Turbulent Magnetic Island

Quanming LU[1#+], Can HUANG[1]

[1]University of Science and Technology of China

ST14-20-24 / Sun and Heliosphere General Session Including Broadband Radio Physics, Helioseismology and Solar Diagnostic Techniques

Mon - 07 Aug | MR309

Session Chair(s) Mario M. BISI, *Science & Technology Facilities Council*

08:30 ST14-20-24-A023

ST14-20-24-D1-AM1-309-002 Invited

Probing the Corona and Heliosphere with the Murchison Widefield Array

Colin LONSDALE[1#+]

[1]Massachusetts Institute of Technology

08:50 ST14-20-24-A021

ST14-20-24-D1-AM1-309-003

Real-time Prediction of GSM Bz Fields at Earth Using the CSSS Model and UCSD IPS Tomography

Hsiu-Shan YU[1#+], Bernard JACKSON[1], Paul HICK[1], Andrew BUFFINGTON[1], Munetoshi TOKUMARU[2], Nobuhiko NISHIMURA[2], Nishiki NOZAKI[2], Ken'ichi FUJIKI[2], Keiji HAYASHI[2,3]

[1]University of California, San Diego, [2]Nagoya University, [3]Chinese Academy of Sciences

09:05 ST14-20-24-A002

ST14-20-24-D1-AM1-309-004

Project for Solar-Terrestrial Environment Prediction: Predicting Solar Cycle 25 Using Surface Flux Transport Model

Shinsuke IMADA[1#+], Haruhisa IIJIMA[1], Hideyuki HOTTA[2], Masashi FUJIYAMA[1], Daiko SHIOTA[1], Kanya KUSANO[1]

[1]Nagoya University, [2]Chiba University

09:20 ST14-20-24-A004

ST14-20-24-D1-AM1-309-005

Solar Flares, CMEs, and Space Weather Measurements from the Surface of Mars with the RAD Instrument on the Mars Science Laboratory

Donald M. HASSLER[1#+]

[1]Southwest Research Institute

ST25 / New Perspectives of the Magnetosphere-ionosphere System from Numerical Models and Synoptic Observations

Mon - 07 Aug | MR308

Session Chair(s) Gang LU, *National Center for Atmospheric Research*
Guan LE, *NASA Goddard Space Flight Center*

14:00 ST25-A001
ST25-D1-PM1-308-001
Invited
Global Observations of High-M Poloidal Waves in the Magnetosphere During the Recovery Phase of the June 2015 Magnetic Storm
Guan LE[1#+], Peter CHI[2], Robert STRANGEWAY[2], Christopher RUSSELL[2], James SLAVIN[3], Kazue TAKAHASHI[4], Howard SINGER[5], Vassilis ANGELOPOULOS[2], Brian ANDERSON[4], K BROMUND[1], David FISCHER[6], E. Larry KEPKO[1], Werner MAGNES[6], Rumi NAKAMURA[6], Ferdinand PLASCHKE[6], Roy B. TORBERT[7]
[1]National Aeronautics and Space Administration (NASA), [2]University of California, Los Angeles, [3]University of Michigan, [4]Johns Hopkins University, [5]National Oceanic and Atmospheric Administration, [6]Austrian Academy of Sciences, [7]University of New Hampshire

14:15 ST25-A007
ST25-D1-PM1-308-002
Invited
Dynamic Evolution of the Ionospheric Storm Enhanced Density (SED) and its Role in Preconditioning Intense Ion Upflow Fluxes
Shasha ZOU[1#+]
[1]University of Michigan

14:30 ST25-A008
ST25-D1-PM1-308-003
Invited
The Effect of Precipitating Particles on Ionospheric Conductance and Inner Magnetospheric Electric Fields
Margaret CHEN[1#+], Colby LEMON[1], James HECHT[1], Joseph EVANS[2]
[1]The Aerospace Corporation, [2]Computational Physics, Inc.

14:45 ST25-A004
ST25-D1-PM1-308-004
Dayside Plasma Blob: A Different High-Density Structure from Patches in the Polar Cap
Qinghe ZHANG[1#+], Yu-Zhang MA[1], P. T. JAYACHANDRAN[2], Jøran Idar MOEN[3], Michael LOCKWOOD[4], Yongliang ZHANG[5], Yong WANG[1], David THEMENS[2]
[1]Shandong University, [2]University of New Brunswick, [3]University of Olso, [4]Rutherford-Appleton Laboratory, [5]Johns Hopkins University

15:00 ST25-A005
ST25-D1-PM1-308-005
Partitioning of High-Latitude Energy Input: Polar Cap Versus Auroral Zone
Gang LU[1#+]
[1]National Center for Atmospheric Research

15:15 ST25-A009
ST25-D1-PM1-308-006
Evidence of IMF by Control on the Prompt Penetration Electric Field Over Equatorial Ionosphere
Dibyendu CHAKRABARTY[1#+], Debrup HUI[1]
[1]Physical Research Laboratory

SE05 / Geodetic Observations and Applications in Earth Sciences and Geohazards

Mon - 07 Aug | MR311

Session Chair(s) Harald SCHUH, *Helmholtz Centre Potsdam GFZ German Research Centre for Geosciences*
Shuanggen JIN, *Chinese Academy of Sciences*

08:30
SE05-D1-AM1-311-001
SE05-A001
Terrestrial Water Storage Variations in Southwestern US from Continuous GPS Observations
Shuanggen JIN[1#+], Tengyu ZHANG[1]
[1]Chinese Academy of Sciences

08:45
SE05-D1-AM1-311-002
SE05-A018
Transient Deformation Signals Detected by Continuous GPS Observations Before 2016 Menyuan Ms 6.4 Earthquake, Qinghai Province, China
Weijun GAN[1#+], Keliang ZHANG[1], Shiming LIANG[1], Yuebin WANG[1]
[1]China Earthquake Administration

09:00
SE05-D1-AM1-311-003
SE05-A005
Exploiting Sentinel-1 TOPS Data for Retrieving Large-Scale Surface Displacement
Teng WANG[1#+], Dongju PENG[1], Sylvain BARBOT[1]
[1]Nanyang Technological University

09:15
SE05-D1-AM1-311-004
SE05-A016
A New Approach to Model Interseismic Crustal Deformation Using Fault Network and Back-Slip Algorithm
Zheng-Kang SHEN[1#+]
[1]Peking University

09:30
SE05-D1-AM1-311-005
SE05-A020
Isolating Interseismic Displacement from Multi-Temporal Insar Measurements
Lei ZHANG[1#+], Xiaoli DING[1], Zhong LU[2], Yangmao WEN[3], Jun HU[4]
[1]The Hong Kong Polytechnic University, [2]Southern Methodist University, [3]Wuhan University, [4]Central South University

09:45
SE05-D1-AM1-311-006
SE05-A019
Evaluating the Effective Elastic Thickness of the Lithosphere in South China Sea and Surrounding Area Using the Satellite-Only Gravity Field Model
Zheng GONG[1#+], Zhigang LI[1], Jianguo XIONG[1], Tao LI[1], Qingying TIAN[1]
[1]Sun Yat-sen University

SE06 / Long-term Rheological Behavior of the Crust and Mantle Inferred from Observations and Models at Laboratory and Geological Time and Spatial Scales

Mon - 07 Aug | MR327

Session Chair(s) James MOORE, *Earth Observatory of Singapore*

11:00
SE06-D1-AM2-327-001
SE06-A006
The Effect of High-Pressure Fracture on the Rheological Structure of the Lithosphere
Yonggang LIU[1#+], Rongqiang WEI[2], Jieyuan NING[1], Shaoxian ZANG[1]
[1]Peking University, [2]University of Chinese Academy of Sciences

11:15 SE06-A001
SE06-D1-AM2-327-002 Experimental Study on Pressure Solution Creep and Micro-Crack Healing of Carrara Marble
Juan SONG[1#+], Yongsheng ZHOU[2], Jiaxiang DANG[2]
[1]China University of Petroleum, [2]China Earthquake Administration

11:30 SE06-A002
SE06-D1-AM2-327-003 Thermal-Induced Mid-Lithosphere Discontinuity Beneath Western and Central North China Craton
Weijia SUN[1#+], Brian KENNETT[2]
[1]Chinese Academy of Sciences, [2]Australian National University

11:45 SE06-A005
SE06-D1-AM2-327-004 Estimation of the Rheological Properties of the Indian Ocean Upper Mantle Using Geodetic Data
Sagar MASUTI[1#+], Sylvain BARBOT[1], Hang YU[1], Justin DAUWELS[1], Lujia FENG[1], Shun-Ichiro KARATO[2], Paramesh BANERJEE[1]
[1]Nanyang Technological University, [2]Yale University

SE10 / Connecting Field, Laboratory, and Volcanic Monitoring Data to Magmatic Processes

Mon - 07 Aug | MR327

Session Chair(s) Florian M. SCHWANDNER, *Jet Propulsion Laboratory/ California Institute of Technology (Caltech)*

08:30 SE10-A002
SE10-D1-AM1-327-001 Recent Uplift of Iwo-Yama Volcano, Kirishima Volcanic Complex, Southwest Japan, Derived from ALOS-2 Images
Invited
Yosuke AOKI[1#+], Hiroki ARAI[1]
[1]The University of Tokyo

08:45 SE10-A024
SE10-D1-AM1-327-002 Necking and Fracking May Explain Stationary Seismicity and Full Degassing in Volcanic Silicic Spine Extrusion
Liqing JIAO[1#+], Paul TAPPONNIER[1], Fidel COSTA[1], Frederic Victor DONZE[2], Luc SCHOLTES[3], Benoit TAISNE[1], Shengji WEI[1]
[1]Nanyang Technological University, [2]Université Joseph Fourier, [3]University of Lorraine

09:00 SE10-A022
SE10-D1-AM1-327-003 WOVOdat Online Tools: Improving and Promoting Their Use for Eruption Forecasts
Christina WIDIWIJAYANTI[1#+], Fidel COSTA[1], Nang Tin Zar WIN[1], Erickson FAJICULAY[1], Chris NEWHALL[2], Antonius RATDOMOPURBO[3]
[1]Nanyang Technological University, [2]Mirisbiris Garden and Nature Center, [3]Geological Agency

09:15 SE10-A026
SE10-D1-AM1-327-004 Eruption Forecasting When Migrating Seismicity: What Does the Material Failure Forecast Method Tell Us?
Lauriane CHARDOT[1#+], Benoit TAISNE[2]
[1]Earth Observatory of Singapore, Nanyang Technological University, [2]Nanyang Technological University

09:30
SE10-D1-AM1-327-005
Invited

SE10-A028
Gas and Water Geochemical Role on Monitoring of Papandayan Volcano Activities
Hanik HUMAIDA[1#+], Sri SUMARTI[1], Euis SUTANINGSIH[1], Harry CAHYONO[1], Agung DAMAYANTI[1]
[1]Geological Agency of Indonesia

09:45
SE10-D1-AM1-327-006

SE10-A015
The Effusive-Explosive Transitions at Rokatenda 2012-2013: Unloading by Extrusion of Degassed Magma with Lateral Gas Flow
Philipson BANI[1#+]
[1]CVGHM / IRD

10:00
SE10-D1-AM1-327-007

SE10-A025
Characterization of Basaltic Lava and Identification of Magmatic Processes Through Petrogenesis and Rock Magnetic Methods in Ijen Volcanic Complex, Banyuwangi, East Java, Indonesia
Satria BIJAKSANA[1#], Aditya PRATAMA[1+], Mirzam ABDURRAHMAN[1]
[1]Institut Teknologi Bandung

10:15
SE10-D1-AM1-327-008

SE10-A021
Time Scales of the Processes Related to the 2007 Caldera-Forming Eruption of Piton De La Fournaise (La Réunion Island)
Helena ALBERT[1#+], Fidel COSTA[1], Jason HERRIN[1], Andrea DI MURO[2], Nicole MÉTRICH[2]
[1]Nanyang Technological University, [2]Sorbonne Paris Cité/ Université Paris Diderot

SE19 / Geodynamics at Active Plate Convergence Belt in East Asia

Mon - 07 Aug | MR327

Session Chair(s)
Kuo-En CHING, *National Cheng Kung University*
Po-Fei CHEN, *National Central University*

14:00
SE19-D1-PM1-327-001

SE19-A011
Upper Mantle Seismic Velocity Structures Beneath Northwest Mindoro as Revealed by Teleseismic Relative Arrival Times
Po-Fei CHEN[1#+], Erlington OLAVERE[2], Po-Li SU[1], Bartolome BAUTISTA[2], Renato SOLIDUM[2], Bor-Shouh HUANG[3]
[1]National Central University, [2]Philippine Institute of Volcanology and Seismology, [3]Academia Sinica

14:15
SE19-D1-PM1-327-002

SE19-A003
Mantle S Wave Tomography Beneath China and Surrounding Areas Using Absolute Travel Time Residual
Yongsheng LIU[1#+], Masayuki OBAYASHI[2], Fenglin NIU[3], Ping TONG[1]
[1]Nanyang Technological University, [2]Japan Agency for Marine-Earth Science and Technology, [3]Rice University

14:30
SE19-D1-PM1-327-003

SE19-A009
Studying Deformation and Fault Development in Southwestern Taiwan with 3-D Numerical Model
Eh TAN[1#+], Emmy Tsui-Yu CHANG[2], Fang-Yi LEE[2]
[1]Academia Sinica, [2]National Taiwan University

14:45 SE19-A007

SE19-D1-PM1-327-004 Re-Examination of the 1990 Ms=7.8 Luzon Earthquake Sequence Based on Seismic Observations Recorded by a Dense Regional Seismic Network in Taiwan

Bor-Shouh HUANG[1#+], Win-Gee HUANG[1]

[1]Academia Sinica

SE24 / Crustal Dynamics and Seismogensis Beneath Seismically Active Regions of South Asia

Mon - 07 Aug | MR311

Session Chair(s) O P MISHRA, *Ministry of Earth Sciences*

14:00 SE24-A002

SE24-D1-PM1-311-001 Late-Quaternary Fluvial Landforms and Their Response to the Regional Stress Scenario in the Kachchh Peninsula, Western India

Falguni BHATTACHARJEE[1#+]

[1]Institute of Seismological Research

14:15 SE24-A007

SE24-D1-PM1-311-002 Electrical Structure of Gaoligong Shear Zone in West Yunnan, China

Qinghua HUANG[1#+], Tao YE[1], Xiaobin CHEN[2]

[1]Peking University, [2]China Earthquake Administration

14:30 SE24-A005

SE24-D1-PM1-311-003 Signatures of Paleo-Earthquake from the South Wagad Fault (SWF), Wagad Island, Kachchh, Gujarat, Western India: A Potential Seismic Hazard

Javed MALIK[1#+], Mahendrasinh GADHAVI[2], Sravanthi S[1]

[1]Indian Institute of Technology Kanpur, [2]L. D. College of Engineering

14:45 SE24-A008

SE24-D1-PM1-311-004 Invited The Role of the Burma Slab on the Coherent Deformation Around the Eastern Himalayan Syntaxis

Eric SANDVOL[1#+], Hrin NEI THIAM[2], Phyo Maung MAUNG[3], Yin Myo Min HTWE[2], James NI[4]

[1]University of Missouri, Columbia, [2]Department of Meteorology and Hydrology, [3]Nanyang Technological University, [4]New Mexico State University

SE27 / Magmatism from Mantle Through Crust: Asian Perspectives

Mon - 07 Aug | MR311

Session Chair(s) Florian SCHWANDNER, *NASA Jet Propulsion Laboratory*
Carlo ARCILLA, *University of the Philippines Diliman*

11:00 SE27-A005
SE27-D1-AM2-311-001
Contrasting Petrological Characteristics of Adjacent Ophiolites: The Case of the Samar and Leyte Ophiolites in Central Philippines
Juan Miguel GUOTANA[1#+], Betchaida PAYOT[1], Carla DIMALANTA[1], Noelynna RAMOS[1], Decibel FAUSTINO-ESLAVA[1], Karlo QUEAÑO[2], Graciano YUMUL, JR.[3,4]
[1]University of the Philippines Diliman, [2]Mines and Geosciences Bureau, [3]Monte Oro Resources & Energy, Inc., [4]Apex Mining Co. Inc.

11:15 SE27-A002
SE27-D1-AM2-311-002
Structure of Asthenosphere Interpreted by Submarine Petit-Spot Volcanoes
Yuki SATO[1#+], Naoto HIRANO[1]
[1]Tohoku University

11:30 SE27-A009
SE27-D1-AM2-311-003
Young Basaltic Volcanism in Northern Palawan: Implications on Mineralogical and Geochemical Mantle Source Heterogeneities in South China Sea Region
James Cesar REFRAN[1#+], Carlo ARCILLA[1]
[1]University of the Philippines Diliman

11:45 SE27-A007
SE27-D1-AM2-311-004
Well-Preserved Layered Ultramafic Cumulates in Palawan, Philippines
Betchaida PAYOT[1#+], Jeanne Myrtia MACALALAD[1], Gabriel Theophilus VALERA[1], Valerie Shayne OLFINDO[1], Juan Miguel GUOTANA[1]
[1]University of the Philippines Diliman

12:00 SE27-A004
SE27-D1-AM2-311-005
Petrological Records of Island Arc Lower Crust Processes: Insights from Xenoliths of Sabtang Island, Luzon Arc
Gabriel Theophilus VALERA[1#+], Betchaida PAYOT[1], Shoji ARAI[2], Satoko ISHIMARU[3], Miyuki TAKEUCHI[2]
[1]University of the Philippines Diliman, [2]Kanazawa University, [3]Kumamoto University

Presentations
08 Aug, 2017
Tuesday

Day 2 - 08 Aug 2017, Tuesday
Program Overview

08 Aug 2017, Tuesday					
Time / Room	**AM1**	**AM2**	**Lunch**	**PM1**	**PM2**
	08:30 - 10:30	**11:00 - 12:30**	**12:30 - 14:00**	**14:00 - 15:30**	**16:00 - 18:00**
MR308	AS01 (p97)	AS01 (p98)		AS28 (p109)	AS28 (p110)
MR309	AS07 (p98)	AS14 (p106)		AS14 (p107)	AS20 (p108)
MR310	PS05-13 (p126)	PS05-13 (p127)		PS05-13 (p127)	PS05-13 (p128)
MR311	SE12 (p131)	SE04 (p129)		SE04 (p130)	SE25 (p136)
MR327	SE21 (p134)	SE21 (p135)		SE13 (p132)	SE13 (p133)
MR328	OS12 (p119)	OS17 (p123)		OS19 (p124)	OS19 (p124)
MR329	OS14 (p121)	OS13 (p120)		OS13 (p121)	OS14 (p122)
MR330	HS21 (p114)	HS DL (p10)	HS Meeting	SS07 (p138)	SS08 (p139)
MR331	Kamide Award Special Lecture (p22)	ST DL (p18)	ST Meeting	SS10 (p140)	SS04 (p137)
MR332	IG28 (p117)	IG25 (p116)		IG15 (p116)	IG05 (p115)
MR333	AS10 (p99)	AS10 (p100)		AS10 (p100)	AS10 (p101)
MR334	AS13 (p104)	AS13 (p105)		AS13 (p105)	AS32 (p111)
MR335	AS11-38 (p102)	AS11-38 (p103)		AS35 (p112)	AS35 (p113)
Summit				HS Posters (p141) ST Posters (p152)	

Sessions & Conveners
* Main Convener

AS01 **Climate Change, Tropical Climatic Hazards and Meridional Circulation Changes in Asia-Oceania**
*Yuriy KULESHOV *Bureau of Meteorology*, David JONES *Bureau of Meteorology*, Bertrand TIMBAL *National Environment Agency*

AS07 **Atmospheric and Space Electricity**
*Gaopeng LU *Chinese Academy of Sciences*, Yaov YAIR *The Open University of Israel*, Tai-Yin HUANG *Penn State Lehigh Valley*, Cheng-Liing KUO *National Central University*, Xianghui XUE *School of Earth and Space Sciences, University of Science and Technology of China*

AS10 **The Science and Prediction of Tropical Cyclones**
*Chun-Chieh WU *National Taiwan University*, Zhuo WANG *University of Illinois at Urbana-Champaign*, Yuqing WANG *University of Hawaii at Manoa*, Jeff KEPERT *Centre for Australian Weather and Climate Research*, Kosuke ITO *University of the Ryukyus*

AS11-38 **Monsoon Climates over South, East and Southeast Asia and Its Tele-connections**
*Ramesh KRIPALANI *Indian Institute of Tropical Meteorology*, Jaiho OH *Pukyong National University*, Kyung-Ja HA *Pusan National University*, Amita PRABHU *Indian Institute of Tropical Meteorology*, Sheeba Nettukandy CHENOLI *University of Malaya*

AS13 **Seasonal to Decadal Climate Variability in Southeast Asia and Indo-pacific: Impact and Predictions**
*R. Kartika LESTARI *Centre for Climate Research Singapore*, Jianping LI *Beijing Normal University*, Yukiko IMADA *Japan Meteorological Agency*, Renguang WU *Chinese Academy of Sciences*, Song YANG *Sun Yat-sen University*

AS14 **Theory, Observations and Modelling of Maritime Continent Convection**
*Muhammad Eeqmal HASSIM *Meteorological Service Singapore*, Masaki KATSUMATA *Japan Agency for Marine-Earth Science and Technology*, Jayakrishnan P. R. *University of Malaya*, Azizan Abu SAMAH *University of Malaya*

AS20 **10th Sasaki Symposium on Data Assimilation for Atmospheric, Oceanic, and Hydrologic Applications**
*Seon Ki PARK *Ewha Womans University*, Liang XU *Naval Research Laboratory*, Ibrahim HOTEIT *King Abdullah University of Science and Technology*

AS28 **Precipitation Science and Application of Satellite Data**
*Yukari TAKAYABU *The University of Tokyo*, Gail JACKSON *NASA Goddard Space Flight Center*, Geun-Hyeok RYU *Korea Meteorological Administration*, Kenji NAKAMURA *Dokkyo University*, Kusuma RAO *Indian Space Research Organization*

AS32 **Satellite Data Assimilation and Applications for the Weather Forecasting**
*Myoung Hwan AHN *Ewha Womans University*, Kozo OKAMOTO *Japan Meteorological Agency*, Chian-Yi LIU *National Central University*, Wei HAN *Chinese Meteorological Administration*, Hyun-Cheol SHIN *Korea Meteorological Administration*

AS35 **Atmospheric Pollution and Its Effects on Cryospheric Changes Over the Himalayas and the Tibetan Plateau**
*Shichang KANG *Chinese Academy of Sciences*, Arnico PANDAY *International Centre for Integrated Mountain Development (ICIMOD)*, Orjan GUSTAFSSON *Stockholm University*, Maheswar RUPAKHETI *Institute for Advanced Sustainability Studies (IASS)*, Qianggong ZHANG *Chinese Academy of Sciences*

HS21 **Monthly to Seasonal Projection of Extreme Hydrologic Events**
*Ji CHEN *The University of Hong Kong*, Hung Soo KIM *Inha University*, Bellie SIVAKUMAR *University of New South Wales*

IG05 **Coupling in the Whole Earth System**
*Toshiro TANIMOTO *University of California, Santa Barbara*, Kosuke HEKI *Hokkaido University*, Emmy Tsui-Yu CHANG *National Taiwan University*, Mei XUE *Tongji University*

IG15 **Challenges in Precise Geodetic Data Analysis and Applications**
*Junping CHEN *Chinese Academy of Sciences*, Jianhua ZHOU *Beijing Satellite Navigation Center*, Haojun LI *Tongji University*, Jan DOUSA *Geodetic Observatory of Pecny*

IG25 **Multi-dimensional Aspects of Climate Change Over South Asian Region**
*Neloy KHARE *Ministry of Earth Sciences*, Shilpa PANDEY *Birbal Sahni Institute of Palaeosciences*, Ak SAHAI *Indian Institute of Tropical Meteorology*, O P MISHRA *Ministry of Earth Sciences*, Leszek MARKS *Faculty of Geology of the University of Warsaw,ul. Żwirki i Wigury 93, 02-089 Warsaw, Poland*

IG28 **Satellite Land Product Development, Applications and Validation**
*Yunyue YU *National Oceanic and Atmospheric Administration*, Qinhuo LIU *Chinese Academy of Sciences*, Shunlin LIANG *Beijing Normal University*

OS12 **Air-sea Interaction Over the Surrounding Waters of the Maritime Continent**
*Dongxiao WANG *South China Sea Institute of Oceanology*, Wen ZHOU *City University of Hong Kong*, Weidong YU *First Institute of Oceanography*, Lei ZHOU *Shanghai Jiao Tong University*

OS13 **Dynamics, Change, and Regional Impacts of Indo-pacific Climate Variability**
*Wenju CAI *Ocean University of China and Qingdao National Laboratory for Marine Science and Technology*, Guojian WANG *Center for Southern Hemisphere Ocean Research, Commonwealth Scientific and Industrial Research Organisation*, Xiao-Tong ZHENG *Ocean University of China*, Swadhin BEHERA *Japan Agency for Marine-Earth Science and Technology*, Toshio YAMAGATA *Japan Agency for Marine-Earth Science and Technology*

OS14 **Tropical Cyclone-ocean Interactions**
*Guihua WANG *Fudan University*, Chunzai WANG *South China Sea Institute of Oceanology*, Dake CHEN *State Oceanic Administration*, I-I LIN *National Taiwan University*

OS17 **Challenges in Coastal Management Under Variable Oceanographic Forcings**
*Fernando PINHEIRO ANDUTTA *Griffith University*, Xiao WANG *Sino-Australian Research Centre for Coastal Management (SARCCM)*, Pavel TKALICH *National University of Singapore*, Charles LEMCKERT *University of Canberra*

OS19 **Estuarine and Coastal Oceanography: Modelling, Observations, Physics and Biogeochemistry**
*Chai Heng LIM *University of Malaya*, Sung Yong KIM *Korea Advanced Institute of Science and Technology*, Emil STANEV *Helmholtz-Zentrum Geesthacht (HZG)*, Atsushi FUJIMURA *University of Guam*

PS05-13 **Science and Exploration of Mars and Venus**
*Varun SHEEL *Physical Research Laboratory*, Shuanggen JIN *Chinese Academy of Sciences*, Takeshi IMAMURA *The University of Tokyo*, Hideaki MIYAMOTO *University of Tokyo*, Juergen OBERST *German Aerospace Center (DLR)*

SE04 **Geomorphology and Neotectonics of Asia-Pacific Regions**
*Xuhua SHI *Nanyang Technological University*, Huiping ZHANG *China Earthquake Administration*, Wenjun ZHENG *Sun Yat-sen University*, Xiwei XU *China Earthquake Administration*, Renjie ZHOU *University of Queensland*

SE12 **Preparation Process of Great Earthquakes and Related Phenomena: Observations and Debates on Potential Precursory Anomalies at Different Spatial-temporal Scales**
*Fuqiong HUANG *China Earthquake Network Center*, Paresh Nath SINGHA ROY *Indian School of Mines*, Vladimir KOSSOBOKOV *Institute of Earthquake Prediction Theory and mathematical Geophysics, Russian Academy of Sciences*, Qi YAO *Chinese Earthquake Networks Center*

SE13 **Tectonics, Geochronology and Mineral Resources of Asia Pacific Region**
*Mega Fatimah ROSANA *Padjadjaran University*, Kotaro YONEZU *Kyushu University*, Cho Cho AYE *East Yangon University*, Khin ZAW *University of Tasmania*

SE21 **Fault Ruptures, Active Tectonics and Seismic Hazard of Southeast and East Asia**
*Yu WANG *Nanyang Technological University*, J. Bruce H. SHYU *National Taiwan University*, Myo THANT *Monywa University*, Chung-Han CHAN *Nanyang Technological University*, Noelynna RAMOS *University of the Philippines Diliman*

SE25 **General Solid Earth Section**
*Hai Thanh TRAN *Hanoi University of Mining and Geology*, Khin ZAW *University of Tasmania*, Carlo ARCILLA *University of the Philippines Diliman*, Long Van HOANG *Hanoi University of Mining and Geology*, Kyaw THU *Macle Gem Trade Laboratory*

SS04 **A Water Rich World Revealed**
*Jian-Yang LI *Planetary Science Institute*, Eleonora AMMANNITO *University of California, Los Angeles*

SS07 **Geoscientists Without Borders®: Geoscience Applications for Humanitarian Benefit**
*Linda FORD *Society of Exploration Geophysicists*, John BRADFORD *Boise State University*

SS08 **UNESCO Water Security Initiatives for Enhanced Resilience and 2030 Agenda Delivery in Asia and the Pacific Region**
*Ai SUGIURA *UNESCO*, Sharizad SULAIMAN *UNESCO*

SS10 **Environmental Research with Global Navigation Satellite System (GNSS) Data**
*Jack A. KAYE *National Aeronautics and Space Administration (NASA)*

AS01 / Climate Change, Tropical Climatic Hazards and Meridional Circulation Changes in Asia-Oceania

Tue - 08 Aug | MR308

Session Chair(s) Yuriy KULESHOV, *Bureau of Meteorology*
Bertrand TIMBAL, *Centre for Climate Research Singapore*

08:30 AS01-A015
AS01-D2-AM1-308-001
Invited
Building Capacity and Improving Resilience to Weather and Climate Extremes in the Philippines
Ian MACADAM[1], Joseph DARON[1], David CORBELLI[1], Thelma CINCO[2], Marcelino VILLAFUERTE II[2], Claire SCANNELL[1], Florian GALLO[1#+], Erasmo BUONOMO[1], David HEIN[1], Richard JONES[1]
[1]Met Office, [2]Philippine Atmospheric, Geophysical and Astronomical Services Administration

08:45 AS01-A009
AS01-D2-AM1-308-002
Tropical Cyclone Rapid Intensification in Relation to Storm Surge Depth, Extent and Flow Velocity in the Philippines
Lea DASALLAS[1#+], John Kenneth SUAREZ[1]
[1]Nationwide Operational Assessment of Hazards (Project NOAH)

09:00 AS01-A008
AS01-D2-AM1-308-003
A Climatological Perspective of Tropical Cyclone Activity and Landfalling Trend in North Indian Ocean Region
Jagabandhu PANDA[1#+], Kasturi SINGH[1]
[1]National Institute of Technology Rourkela

09:15 AS01-A016
AS01-D2-AM1-308-004
Changes in Return Levels of Precipitation Extremes Under a Warming Climate
Pao-Shin CHU[1#+], Hanpei ZHANG[1], Hui-Ling CHANG[2,3], Kristine TOFTE[1], Tsui-Ling CHEN[2]
[1]University of Hawaii, [2]Central Weather Bureau, [3]National Central University

09:30 AS01-A017
AS01-D2-AM1-308-005
Changes in Precipitation Recycling Depending on Terrestrial Evaporation Over East Asia from RCP8.5
Jinuk KIM[1#+], Johan LEE[1], Kyung-On BOO[1], Sungbo SHIM[1], Young-Hwa BYUN[1]
[1]Korea Meteorological Administration

09:45 AS01-A002
AS01-D2-AM1-308-006
Persistent Heat Waves Over Central-Eastern China: Dynamical Processes and Trends
Nicolas FREYCHET[1#+], Simon TETT[1], Jun WANG[2], Gabriel HEGERL[1]
[1]The University of Edinburgh, [2]Institute of Atmospheric Physics

10:00 AS01-A005
AS01-D2-AM1-308-007
A Dynamics Modeling of the Interaction Between Weather Components Based on the Granger-Causality Analysis
Fajar ADI-KUSUMO[1#+], Herni UTAMI[1], Gunardi GUNARDI[1], Irwan ENDRAYANTO ALUICIUS[1]
[1]Universitas Gadjah Mada

Session Chair(s) Yuriy KULESHOV, *Bureau of Meteorology*
Bertrand TIMBAL, *Centre for Climate Research Singapore*

11:00 AS01-A024
AS01-D2-AM2-308-008 Tropical Circulation Change from LGM To ECP Scenarios
Invited Seok-Woo SON[1#+], Seo-Yeon KIM[1], Seung-Ki MIN[2]
[1]Seoul National University, [2]Pohang University of Science and Technology

11:15 AS01-A022
AS01-D2-AM2-308-009 Possible Mechanisms Influencing Tropical Precipitation and Circulation in the Anthropogenic Aerosol Cooling Simulations
Chia-Chi WANG[1#+], Wei-Liang LEE[2], Chi-Chieh CHEN[1]
[1]Chinese Culture University, [2]Academia Sinica

11:30 AS01-A023
AS01-D2-AM2-308-010 Attribution of the Local Hadley Cell Widening in the Southern Hemisphere
Yeon-Hee KIM[1#+], Seung-Ki MIN[1], Seok-Woo SON[2], Jung CHOI[2]
[1]Pohang University of Science and Technology, [2]Seoul National University

11:45 AS01-A025
AS01-D2-AM2-308-011 Variability and Trends in Singapore Rainfall in Relation to the Mean Meridional Circulation Changes
Bertrand TIMBAL[1#+]
[1]National Environment Agency

AS07 / Atmospheric and Space Electricity

Tue - 08 Aug | MR309

Session Chair(s) Tai-Yin HUANG, *Penn State Lehigh Valley*

08:30 AS07-A010
AS07-D2-AM1-309-001 The ISUAL 427.8 nm-Filtered Imager Recorded Transient Luminous Events
Cheng-Liing KUO[1#+], Jung-Kung CHOU[2], Shu-Chun CHANG[2], Alfred B. CHEN[2], Han-Tzong SU[2], Ruei-Ron HSU[2]
[1]National Central University, [2]National Cheng Kung University

08:45 AS07-A002
AS07-D2-AM1-309-002 On the Lightning-Induced Transient Emissions (LITEs) of Airglow
Tai-Yin HUANG[1#+]
[1]Penn State Lehigh Valley

09:00 AS07-A003
AS07-D2-AM1-309-003 Properties of Winter Thunderstorms Observed in the West Mediterranean
Invited Ivana KOLMASOVA[1,2#+], Alzbeta KUIZOVA[2], Ondrej SANTOLIK[2,3], Stéphane PEDEBOY[4], Radek LAN[3], Ludek UHLIR[3]
[1]IAP CAS, [2]Charles University, [3]Czech Academy of Sciences, [4]Météorage

09:20 AS07-A007
AS07-D2-AM1-309-004 The Enhancement of Neutral Metal Na Layer Above Thunderstorms
Bingkun YU[1#+], Xianghui XUE[1], Gaopeng LU[2], Cheng-Liing KUO[3], Xiankang DOU[1], Qi GAO[1], Xiushu QIE[2], Jianfei WU[1], Yihuan TANG[1]
[1]University of Science and Technology of China, [2]Chinese Academy of Sciences, [3]National Central University

09:35
AS07-D2-AM1-309-005
AS07-A012
Research on Magnetic Energy Harvesting Techniques
Congzheng HAN[1#+]
[1]*Chinese Academy of Sciences*

AS10 / The Science and Prediction of Tropical Cyclones

Tue - 08 Aug | MR333

Session Chair(s)
Chun-Chieh WU, *National Taiwan University*
Kosuke ITO, *University of the Ryukyus*

08:30
AS10-D2-AM1-333-001
Invited
AS10-A007
A Self-Weakening Mechanism for Tropical Cyclones
Ralf TOUMI[1#+]
[1]*Imperial College London*

08:45
AS10-D2-AM1-333-002
Invited
AS10-A046
Reconstruction of the Thermodynamic Cycles in a High Resolution Simulation of a Tropical Cyclone
Olivier PAULUIS[1#+], Fuqing ZHANG[2]
[1]*New York University*, [2]*Pennsylvania State University*

09:00
AS10-D2-AM1-333-003
AS10-A010
Short Time-Scale Variation in Structure and Intensity of Typhoon Lionrock (1610) Revealed by Himawari-8 Super Rapid Scan Observations
Ryo OYAMA[1#+], Kazuki SHIMOJI[1], Akiyoshi WADA[1]
[1]*Japan Meteorological Agency*

09:15
AS10-D2-AM1-333-004
AS10-A029
The Role of the WISHE Mechanism in Secondary Eyewall Formation
Chieh-Jen CHENG[1#+], Chun-Chieh WU[1]
[1]*National Taiwan University*

09:30
AS10-D2-AM1-333-005
AS10-A033
The Internal Boundary Layer of Tropical Cyclone
Eric K. W. NG[1#+], Johnny CHAN[1]
[1]*City University of Hong Kong*

09:45
AS10-D2-AM1-333-006
AS10-A041
Ekman Downwelling from the Lower Troposphere in the Intense Tropical Cyclones
Tomoki OHNO[1#+], Masaki SATOH[1]
[1]*The University of Tokyo*

10:00
AS10-D2-AM1-333-007
AS10-A038
The Relation of Eyewall Asymmetries and Rapid Intensification for Super Typhoon Megi (2010)
Jae-Deok LEE[1#+], Chun-Chieh WU[1]
[1]*National Taiwan University*

10:15
AS10-D2-AM1-333-008
AS10-A056
Ka-Band Radar Observation of the Outflow-Layer Clouds of Typhoon Chaba (2016)
Tadayasu OHIGASHI[1#+], Kazuhisa TSUBOKI[1], Haruya MINDA[1], Moeto KYUSHIMA[1], Hiroyuki YAMADA[2], Hironori IWAI[3]
[1]*Nagoya University*, [2]*University of the Ryukyus*, [3]*National Institute of Information and Communications Technology*

Session Chair(s) Zhuo WANG, *University of Illinois*
Chun-Chieh WU, *National Taiwan University*

11:00
AS10-D2-AM2-333-009
Invited
AS10-A055
Response of Intense Tropical Cyclones to El Niño in Ensemble Simulations Using Global Nonhydrostatic Model
Masaki SATOH[1#+], Yohei YAMADA[2], Chihiro KODAMA[2], Masuo NAKANO[2], Tomoe NASUNO[2], Masato SUGI[3]
[1]*The University of Tokyo,* [2]*Japan Agency for Marine-Earth Science and Technology,* [3]*Japan Meteorological Agency*

11:15
AS10-D2-AM2-333-010
AS10-A019
Exploring the Key Features of Tropical Cyclogenesis Using Satellite Data
Zhuo WANG[1#+]
[1]*University of Illinois at Urbana-Champaign*

11:30
AS10-D2-AM2-333-011
Invited
AS10-A035
Recovery of Tropical Cyclone Activity in the Western North Pacific in 1950
Hisayuki KUBOTA[1#+]
[1]*Hokkaido University*

11:45
AS10-D2-AM2-333-012
AS10-A049
Role of Convectively Coupled Equatorial Waves and MJO on Cyclogenesis Over Bay of Bengal
Landu KIRANMAYI[1#+], Rishav GOYAL[1]
[1]*Indian Institute of Technology Bhubaneswar*

12:00
AS10-D2-AM2-333-013
AS10-A052
A Numerical Study of Typhoon Meranti (2010) Formation in an Inverted Monsoon Trough
Na WEI[1#+], Ying LI[1]
[1]*Chinese Academy of Meteorological Sciences*

12:15
AS10-D2-AM2-333-014
AS10-A053
Seasonal Prediction of the Typhoon Genesis Frequency Over the Western North Pacific
Shanshan ZHONG[1#+]
[1]*Nanjing University of Information Science & Technology*

Session Chair(s) Zhuo WANG, *University of Illinois*
Kosuke ITO, *University of the Ryukyus*

14:00
AS10-D2-PM1-333-015
Invited
AS10-A025
Variation in Tropical Cyclone Location of Lifetime Maximum Intensity and its Effect on Landfall Intensity Along the Coast of East Asia
Johnny CHAN[1#+], Kin Sik LIU[1]
[1]*City University of Hong Kong*

14:15
AS10-D2-PM1-333-016
Invited
AS10-A016
Intraseasonal Oscillation Enhances C5 Typhoon Occurrence Over the Tropical Western North Pacific
Huang-Hsiung HSU[1#+], Chun-Hsiung WENG[1]
[1]*Academia Sinica*

14:30
AS10-D2-PM1-333-017
AS10-A030
How Well Do Global Climate Model Detect Tropical Cyclones Considering Cyclone Phase?
Sinil YANG[1#+], Jaiho OH[1]
[1]*Pukyong National University*

14:45
AS10-D2-PM1-333-018
AS10-A006
Summer Tropical Cyclone Rainfall Variability in the Western North Pacific
Jau-Ming CHEN[1#+]
[1]*National Kaohsiung Marine University*

15:00
AS10-D2-PM1-333-019
AS10-A034
Modulation of Subseasonal Tropical Cyclone Genesis in the Western North Pacific by Wave Activities
Jianyun GAO[1], Kevin CHEUNG[2#+]
[1]*Fujian Climate Center,* [2]*Macquarie University*

15:15
AS10-D2-PM1-333-020
AS10-A018
Global Cloud-Permitting Simulations of Typhoon Fengshen (2008)
Tomoe NASUNO[1#+], Hiroyuki YAMADA[2], Masuo NAKANO[1], Hisayuki KUBOTA[3], Masahiro SAWADA[4], Ryuji YOSHIDA[5]
[1]*Japan Agency for Marine-Earth Science and Technology,* [2]*University of the Ryukyus,* [3]*The University of Tokyo,* [4]*Japan Meteorological Agency,* [5]*RIKEN Advanced Institute for Computational Science*

Session Chair(s) Kosuke ITO, *University of the Ryukyus*

16:00
AS10-D2-PM2-333-021
Invited
AS10-A021
A Category '6' Trio – Supertyphoons Meranti (2016), Haiyan (2013), and Hurricane Patricia (2015)
I-I LIN[1#+], Mong-Ming LU[2], Hsiao-Ching HUANG[1], Julien BOUCHAREL[3], Fei-Fei JIN[3,4], Chun-Chi LIEN[1]
[1]*National Taiwan University,* [2]*Central Weather Bureau,* [3]*University of Hawaii,* [4]*Chinese Meteorological Agency*

16:15
AS10-D2-PM2-333-022
Invited
AS10-A008
Simulations of Analogous Typhoons Haiyan (2013) and Mike (1990) Simulated by a Coupled Atmosphere-Wave-Ocean Model
Akiyoshi WADA[1#+]
[1]*Japan Meteorological Agency*

16:30
AS10-D2-PM2-333-023
AS10-A005
Horizontal Transport of Sea Spray Intensifying Tropical Cyclones
Kosuke ITO[1#+], Shota KANDA[1], Naohisa TAKAGAKI[2]
[1]*University of the Ryukyus,* [2]*University of Hyogo*

16:45
AS10-D2-PM2-333-024
AS10-A012
The Influence of the Tropical Cyclone Size on the Wind and Rainfall During Landfall
Kun-Hsuan CHOU[1#+], Sheng-Yu WU[1]
[1]*Chinese Culture University*

17:00
AS10-D2-PM2-333-025
AS10-A013
Rainfall Asymmetry of Landfalling Tropical Cyclone in South China Coast
Kelvin T. F. CHAN[1#+], Johnny CHAN[1]
[1]*City University of Hong Kong*

17:15 AS10-A015
AS10-D2-PM2-333-026
Eyewall Reconstruction of Typhoon Fanapi (2010) After Landfall on Taiwan
Ming-Jen YANG[1#+], Yao-Chu WU[2], Yu-Chieng LIOU[2]
[1]*National Taiwan University*, [2]*National Central University*

17:30 AS10-A054
AS10-D2-PM2-333-027
Large Eddy Simulation of Enitre Tropical Cyclones
Junshi ITO[1#+], Tsutao OIZUMI[2], Hiroshi NIINO[3]
[1]*Meteorological Research Institute*, [2]*Japan Agency for Marine-Earth Science and Technology*, [3]*The University of Tokyo*

AS11-38 / Monsoon Climates over South, East and Southeast Asia and Its Tele-connections

Tue - 08 Aug | MR335

Session Chair(s) Kyung-Ja HA, *Pusan National University*
Amita PRABHU, *Indian Institute of Tropical Meteorology*

08:30 AS11-38-A031
AS11-38-D2-AM1-335-012
Evaluation of CMIP5 Model Performance for the Rainy Season Evolution Over East Asia and the Future Change
Sang-Hoon KWON[1#+], Kyung-On BOO[2], Sungbo SHIM[2], Young-Hwa BYUN[2]
[1]*National Institute of Meteorological Sciences*, [2]*Korea Meteorological Administration*

08:45 AS11-38-A043
AS11-38-D2-AM1-335-013
Winter SST Variation Patterns in the Subtropical Northwestern Pacific Ocean Associated with Indian Ocean Dipole and Their Influences on East Asian Winter Climate
Shuanglin LI[1,2#+]
[1]*Institute of Atmospheric Physics, Chinese Academy of Sciences*, [2]*China University of Geosciences*

09:00 AS11-38-A026
AS11-38-D2-AM1-335-014
Potential for Long-Lead Prediction of the Western North Pacific Monsoon Circulation Beyond Seasonal Time Scales
Jung CHOI[1], Seok-Woo SON[1#], Kyong-Hwan SEO[2], June-Yi LEE[2], Hyun-Suk KANG[3], Kanghyun SONG[1+]
[1]*Seoul National University*, [2]*Pusan National University*, [3]*Korea Meteorological Administration*

09:15 AS11-38-A015
AS11-38-D2-AM1-335-015
Four Possible Mechanisms for Cold Events Over East Asia
Zifan YANG[1+], Wenyu HUANG[1#], Bin WANG[1,2], Ruyan CHEN[1], Jonathon WRIGHT[1], Wenqian MA[1]
[1]*Tsinghua University*, [2]*Chinese Academy of Sciences*

09:30 AS11-38-A007
AS11-38-D2-AM1-335-016
The Climatic Characteristics of Summer Convection Over the Tibetan Plateau Revealed by Geostationary Satellite
Bo LI[1#+], Shihao TANG[1]
[1]*China Meteorological Administration*

09:45
AS11-38-D2-AM1-335-017
AS11-38-A006
Divergent Global Monsoon Changes Induced by Natural Versus Anthropogenic Forcing
Jing CHAI[1+], Fei LIU[1#]
[1]*Nanjing University of Information Science & Technology*

10:00
AS11-38-D2-AM1-335-018
AS11-38-A002
The Climate Shift of Interannual Variability of the Winter Precipitation Over China
Jingwen GE[1#+], Xiaojing JIA[1], Hai LIN[2]
[1]*Zhejiang University*, [2]*Environment Canada*

Session Chair(s)
Shuanglin LI, *Chinese Academy of Sciences*
Sheeba CHENOLI, *University of Malaya*

11:00
AS11-38-D2-AM2-335-019
AS11-38-A022
Association of Greenland Sea Ice Variability with South and East Asian Summer Monsoon
Amita PRABHU[1#+], Jaiho OH[2], In-Won KIM[2], Ramesh KRIPALANI[1], G. PANDITHURAI[1]
[1]*Indian Institute of Tropical Meteorology*, [2]*Pukyong National University*

11:15
AS11-38-D2-AM2-335-020
AS11-38-A012
An Intensified Relationship Between the North Atlantic Oscillation in May and the Early Summer Rainfall in the Asian Inland Plateau in the Late 1970s
Jinling PIAO[1+], Wen CHEN[1#]
[1]*Chinese Academy of Sciences*

11:30
AS11-38-D2-AM2-335-021
AS11-38-A035
Climate Variability and its Teleconnections with Indian Summer Monsoon Rainfall: An Observational and Modeling Approach
Manish Kumar JOSHI[1#+], Kyung-Ja HA[2], June-Yi LEE[2], Ramesh KRIPALANI[1]
[1]*Indian Institute of Tropical Meteorology*, [2]*Pusan National University*

11:45
AS11-38-D2-AM2-335-022
AS11-38-A037
Link Between Preonset Land Atmospheric Conditions and the Indian Summer Monsoon Rainfall
Archana RAI[1#+], Subodh Kumar SAHA[1], Samir POKHREL[1], Sujith K.[1]
[1]*Indian Institute of Tropical Meteorology*

12:00
AS11-38-D2-AM2-335-023
AS11-38-A042
Changes in Observed Rainfall Seasonality Over India
Raju PATHAK[1#+], Sandeep SAHANY[1], Saroj Kanta MISHRA[1]
[1]*Indian Institute of Technology Delhi*

12:15
AS11-38-D2-AM2-335-024
AS11-38-A023
Tele-Connections of Summer Monsoons Over South, East and Southeast Asia: A Review
Ramesh KRIPALANI[1#+], Amita PRABHU[1], Preethi BHASKAR[1]
[1]*Indian Institute of Tropical Meteorology*

AS13 / Seasonal to Decadal Climate Variability in Southeast Asia and Indo-pacific: Impact and Predictions

Tue - 08 Aug | MR334

Session Chair(s) Song YANG, *Sun Yat-Sen University*
Renguang WU, *Chinese Academy of Science*

08:30
AS13-D2-AM1-334-001
AS13-A011
Processes for Abnormal Spring to Summer Transition Over the South China Sea
Renguang WU[1#+]
[1]*Chinese Academy of Sciences*

08:45
AS13-D2-AM1-334-002
AS13-A016
Influence of the May Southern Annular Mode on the South China Sea Summer Monsoon
Ting LIU[1#+], Jianping LI[2], Yanjie LI[3], Sen ZHAO[3], Fei ZHENG[3], Jiayu ZHENG[1]
[1]*Second Institute of Oceanography,* [2]*Beijing Normal University,* [3]*Chinese Academy of Sciences*

09:00
AS13-D2-AM1-334-003
AS13-A026
Potential Connections Between Summer Monsoon Rainfall Variability Over North East Regions of India, Eurasian Snow, Atlantic Sea Surface Temperature and Arctic Oscillation
Amita PRABHU[1#+], Jaiho OH[2], In-Won KIM[2], Ramesh KRIPALANI[1], G. PANDITHURAI[1]
[1]*Indian Institute of Tropical Meteorology,* [2]*Pukyong National University*

09:15
AS13-D2-AM1-334-004
AS13-A012
The AMO's Modulation on Intraseasonal Variability of Winter Ural Blocking and and Summer Euroasian Subtropical Wavetrain
Shuanglin LI[1,2#+]
[1]*Institute of Atmospheric Physics, Chinese Academy of Sciences,* [2]*China University of Geosciences*

09:30
AS13-D2-AM1-334-005
AS13-A004
Variations of Mid-Pacific Trough and Associated Climate Anomalies Over the Asian-Pacific-American Regions: Roles of Tropical SST and Arctic Sea Ice
Song YANG[1#+], Kaiqiang DENG[1], Mingfang TING[2], Mengmeng LU[1], Chundi HU[3]
[1]*Sun Yat-sen University,* [2]*Columbia University,* [3]*Chengdu University of Information Technology*

09:45
AS13-D2-AM1-334-006
AS13-A015
Impact of Tibetan Plateau Heating on the Climate Over Upstream Regions
Mengmeng LU[1+], Song YANG[1#], Shan HE[1], Zhenning LI[1]
[1]*Sun Yat-sen University*

10:00
AS13-D2-AM1-334-007
AS13-A035
Changes of Tropical Convective Zone Under Global Warming
Jia-Yuh YU[1#+], Hsiao-Wei LIU[2]
[1]*National Central University,* [2]*Chinese Culture University*

Session Chair(s) Jianping LI, *Beijing Normal University*

11:00
AS13-D2-AM2-334-008
Invited
AS13-A005
Tropical Pacific Variability as a Pacemaker of the Staircase-Like Global Warming
Yu KOSAKA[1#+], Shang-Ping XIE[2]
[1]The University of Tokyo, [2]University of California San Diego

11:20
AS13-D2-AM2-334-009
AS13-A025
Does Pacific Ocean Plays an Important Role in the Decadal Variability in Precipitation Over Western Maritime Continent?
R. Kartika LESTARI[1#+], Yu KOSAKA[2], Yukiko IMADA[3]
[1]Centre for Climate Research Singapore, [2]The University of Tokyo, [3]Japan Meteorological Agency

11:35
AS13-D2-AM2-334-010
AS13-A024
Cold Season Africa-Asia Multidecadal Teleconnection Pattern and its Relation to the Atlantic Multidecadal Variability
Jianping LI[1#+], Cheng SUN[1], Ruiqiang DING[2]
[1]Beijing Normal University, [2]Chinese Academy of Sciences

11:50
AS13-D2-AM2-334-011
AS13-A036
Uncertainty in the Tropical Pacific Multi-Decadal Climate Simulations Due to Internal Variability
Mohammad Hadi BORDBAR[1#+], Mojib LATIF[1], Wonsun PARK[1], Thomas MARTIN[1], Matthew ENGLAND[2], Alexander SEN GUPTA[2], Agus SANTOSO[2,3], Andréa S. TASCHETTO[2]
[1]GEOMAR Helmholtz Centre for Ocean Research Kiel, [2]University of New South Wales, [3]Commonwealth Scientific and Industrial Research Organisation

12:05
AS13-D2-AM2-334-012
AS13-A017
Recent Enhanced Seasonal Temperature Contrast in Japan Associated with Interdecadal Pacific Variability
Yukiko IMADA[1#+], Shuhei MAEDA[1], Masahiro WATANABE[2], Hideo SHIOGAMA[3], Ryo MIZUTA[1], Masayoshi ISHII[4], Masahide KIMOTO[2]
[1]Japan Meteorological Agency, [2]The University of Tokyo, [3]National Institute for Environmental Studies, [4]Japan Agency for Marine-Earth Science and Technology

Session Chair(s) R. Kartika LESTARI, *Centre for Climate Research Singapore*

14:00
AS13-D2-PM1-334-013
Invited
AS13-A032
Perspectives on Service Delivery of Seasonal Prediction in the Indonesian Maritime Continent: Present Status, Challenges, and Societal Impacts
Ardhasena SOPAHELUWAKAN[1#+], Robi MUHARSYAH[1], Ratna SATYANINGSIH[1], Kadarsah KADARSAH[1], Ajie LINARKA[1], Jose RIZAL[1], Ferdika AMSAL[1], Eko HERIYANTO[1], Tri Astuti NURAINI[1], Kharisma APRILINA[1]
[1]Agency for Meteorology Climatology and Geophysics

14:20
AS13-D2-PM1-334-014
AS13-A023
ENSO Modulation of Seasonal Rainfall and Extremes in Indonesia
Supari SUPARI[1#+], Fredolin T. TANGANG[2,3], Ester SALIMUN[2], Ardhasena SOPAHELUWAKAN[1], Ju Neng LIEW[2], Edvin ALDRIAN[1]
[1]Agency for Meteorology Climatology and Geophysics, [2]National University of Malaysia, [3]Ramkhamhaeng University

14:35 AS13-A003
AS13-D2-PM1-334-015
Comparison of Extended Medium-Range Forecast Skill Between KMA Ensemble and Ocean Coupled Ensemble and GloSea5
Sangwook PARK[1#+], Namjae JUNG[1]
[1]Korea Meteorological Administration

14:50 AS13-A014
AS13-D2-PM1-334-016
Subseasonal Skill in Capturing Most Predictable Patterns of Precipitation Over Indo-Pacific Region by the NCEP CFSv2
Shaorou DONG[1#+], Song YANG[1]
[1]Sun Yat-sen University

15:05 AS13-A009
AS13-D2-PM1-334-017
A Modified Algorithm for Identifying and Tracking Extratropical Closed Cyclone
Chuhan LU[1#+]
[1]Nanjing University of Information Science & Technology

AS14 / Theory, Observations and Modelling of Maritime Continent Convection

Tue - 08 Aug | MR309

Session Chair(s) Muhammad Eeqmal HASSIM, *Meteorological Service Singapore*
Masaki KATSUMATA, *Japan Agency for Marine-Earth Science and Technology*

11:00 AS14-A015
AS14-D2-AM2-309-001
Invited
Variability of Surface Forcing and Diurnal Cycle of Convection Over the Maritime Continent
Shuyi S. CHEN[1#+]
[1]University of Miami

11:20 AS14-A005
AS14-D2-AM2-309-002
Land-Ocean Surface Temperature Contrast and its Influence on the Diurnal Cycle of Convection Over Sumatra Island in an Active Phase of the MJO
Pei-Ming WU[1#+], Miki HATTORI[1], Dodi ARDIANSYAH[2], Shuichi MORI[1], Fadli SYAMSUDIN[3], Kunio YONEYAMA[1]
[1]Japan Agency for Marine-Earth Science and Technology, [2]Agency for Meteorology, Climatology and Geophysics, [3]Agency for Assessment and Application of Technology

11:35 AS14-A007
AS14-D2-AM2-309-003
Disturbances of Gravity-Wave Class Observed Near Western Coast of Maritime Continent During MJO Landing and QBO Modification
Manabu D. YAMANAKA[1,2#+], Shin-Ya OGINO[1,2], Pei-Ming WU[1], Jun-Ichi HAMADA[3], Satoru YOKOI[1], Ayako SEIKI[1], Hugo BELLENGER[1], Tomoshige INOUE[3], Shuichi MORI[1], Biao GENG[1], Qoosaku MOTEKI[1], Masaki KATSUMATA[1], Kunio YONEYAMA[1], Reni SULISTYOWATI[2,4], Sopia LESTARI[4], Fadli SYAMSUDIN[4]
[1]Japan Agency for Marine-Earth Science and Technology, [2]Kobe University, [3]Tokyo Metropolitan University, [4]Agency for Assessment and Application of Technology

11:50
AS14-D2-AM2-309-004

AS14-A001
Diurnal Offshore Migration of Precipitation Zone Over Western Coastal Waters of Sumatra Island Observed During Pre-YMC Field Campaign
Satoru YOKOI[1#+], Shuichi MORI[1], Masaki KATSUMATA[1], Biao GENG[1], KazuakI YASUNAGA[2], Fadli SYAMSUDIN[3], Nurhayati NURHAYATI[4], Kunio YONEYAMA[1]
[1]Japan Agency for Marine-Earth Science and Technology, [2]University of Toyama, [3]Agency for Assessment and Application of Technology, [4]Agency for Meteorology, Climatology, and Geophysics

Session Chair(s) Jayakrishnan P.R, *University of Malaya*

14:00
AS14-D2-PM1-309-005

AS14-A003
Observations of Diurnal Convective Activities in Association with the Passage of Mixed Rossby-Gravity Waves Around the Maritime Continent
Biao GENG[1#+], Masaki KATSUMATA[1]
[1]Japan Agency for Marine-Earth Science and Technology

14:15
AS14-D2-PM1-309-006

AS14-A018
Role of Mesoscale Vortices Over Andaman Sea on the Extreme Rainstorm Events During Northeast Monsoons in 2014 and 2017 Over Peninsular Malaysia
Sheeba Nettukandy CHENOLI[1#+], See Hai OOI[1], Azizan Abu SAMAH[1], Muhammad Yunus AHMAD MAZUKI[1], Siti SALEHA[1], Jayakrishnan P. R.[1]
[1]University of Malaya

14:30
AS14-D2-PM1-309-007

AS14-A013
Intraseasonal Variation of Morphology of the Vertical Structure of Precipitation Over Sumatra and Adjoining Oceans Based on Long-Term Measurements of TRMM PR
Marzuki MARZUKI[1#+], Hiroyuki HASHIGUCHI[2], Mutya VONNISA[1], Harmadi HARMADI[1], Elfira SAUFINA[1]
[1]Andalas University, [2]Kyoto University

14:45
AS14-D2-PM1-309-008

AS14-A004
Microphysical Features of Tropical Convection by Videosonde Observations During Pre-YMC Field Campaign
Kenji SUZUKI[1#+], Katsuhiro NAKAGAWA[2], Tetsuya KAWANO[3], Shuichi MORI[4], Masaki KATSUMATA[4], Kunio YONEYAMA[4]
[1]Yamaguchi University, [2]National Institute of Information and Communications Technology, [3]Kyushu University, [4]Japan Agency for Marine-Earth Science and Technology

15:00
AS14-D2-PM1-309-009

AS14-A014
A Convective Rainfall Case Study Using a Regional Ensemble Forecast System
Song GUITING[1#+], Xiang-Yu HUANG[1], Jeff LO[1], Xiangming SUN[1], Aurore PORSON[2], Susanna HAGELIN[2], Douglas BOYD[2]
[1]Centre for Climate Research Singapore, [2]Met Office

15:15
AS14-D2-PM1-309-010

AS14-A009
Understanding Model Rainfall Bias Through its Representation of Tropical Convection During a Cold Surge Event Over Singapore
Muhammad Eeqmal HASSIM[1#+]
[1]Meteorological Service Singapore

AS20 / 10th Sasaki Symposium on Data Assimilation for Atmospheric, Oceanic, and Hydrologic Applications

Tue - 08 Aug | MR309

Session Chair(s) Ibrahim HOTEIT, *King Abdullah University of Science and Technolog*
Xiang-Yu HUANG, *Centre for Climate Research Singapore*

16:00 AS20-A004
AS20-D2-PM2-309-001
Invited
"Big Data Assimilation" for 30-Second-Update 100-m-Mesh Numerical Weather Prediction
Takemasa MIYOSHI[1,2#+], Guo-Yuan LIEN[1], Masaru KUNII[3], Juan RUIZ[4], Yasumitsu MAEJIMA[1], Shigenori OTSUKA[1], Keiichi KONDO[1], Toshiki TERAMURA[1], Hiromu SEKO[3], Shinsuke SATOH[5], Tomoo USHIO[6], Kotaro BESSHO[3], Kazumi KAMIDE[3], Hirofumi TOMITA[1], Seiya NISHIZAWA[1], Tsuyoshi YAMAURA[1], Yutaka ISHIKAWA[1]
[1]RIKEN Advanced Institute for Computational Science, [2]University of Maryland, [3]Japan Meteorological Agency, [4]University of Buenos Aires, [5]National Institute of Information and Communications Technology, [6]Osaka University

16:15 AS20-A001
AS20-D2-PM2-309-002
An EnVAR System With its Own Analysis Perturbations Using the Block GMRES Algorithm
Le DUC[1#+], Kazuo SAITO[2]
[1]Japan Agency for Marine-Earth Science and Technology, [2]Japan Meteorological Agency

16:30 AS20-A008
AS20-D2-PM2-309-003
Representing the Background Error of TC Intensity and its Impact on TC Assimilation and Prediction
Thi Hoan NGUYEN[1+], Shu-Chih YANG[1#], Kuan-Jen LIN[1], Yi-Leng CHEN[2], Hiep NGUYEN[3]
[1]National Central University, [2]University of Hawaii at Manoa, [3]Vietnam Academy of Science and Technology

16:45 AS20-A014
AS20-D2-PM2-309-004
Ensemble Kalman Filtering with One-Step-Ahead Smoothing: Application to State-Parameter Estimation and One-Way Coupled Models
Naila RABOUDI[1], Boujemaa AIT-EL-FQUIH[1], Ibrahim HOTEIT[1#+]
[1]King Abdullah University of Science and Technology

17:00 AS20-A007
AS20-D2-PM2-309-005
A Comparison of GSI and WRF 3DVar Data Assimilation Using Conventional Observations and Radar for a Rainstorm During the Annually First Rainy Season of South China
Xing YU[1,2#+]
[1]Sun Yat-sen University, [2]National University of Singapore

17:15 AS20-A006
AS20-D2-PM2-309-006
Impact of Assimilating Thermodynamic Variables in the ENKF System at Convective Scale: An Observing System Simulation Experiments
Kaoshen CHUNG[1#+], Chingyin KE[1]
[1]National Central University

17:30
AS20-D2-PM2-309-007
Invited

AS20-A013
SINGV Data Assimilation Development and Progress
Xiang-Yu HUANG[1#+], Sijin ZHANG[1], Bruce MACPHERSON[2], Martin MCMILLAN[2], Adam MAYCOCK[2], Robert TUBBS[2], Graeme KELLY[2], Xiangming SUN[1]
[1]Centre for Climate Research Singapore, [2]Met Office

17:45
AS20-D2-PM2-309-008

AS20-A003
Ensemble Transform Sensitivity and Warm-Sector Heavy Rainfall Adaptive Observation: An Osse Case Study
Yu ZHANG[1#+], Donghai WANG[1], Yuanfu XIE[2]
[1]Sun Yat-sen University, [2]NOAA Earth System Research Laboratory

AS28 / Precipitation Science and Application of Satellite Data

Tue - 08 Aug | MR308

Session Chair(s) Yukari TAKAYABU, *University of Tokyo*

14:00
AS28-D2-PM1-308-001

AS28-A005
Upgrades to IMERG in the New Versions
George HUFFMAN[1#+], David BOLVIN[2], Dan BRAITHWAITE[3], Kuolin HSU[3], Robert JOYCE[4], Chris KIDD[5], Eric NELKIN[2], Soroosh SOROOSHIAN[3], Jackson TAN[6], Pingping XIE[7], Gail JACKSON[1]
[1]NASA Goddard Space Flight Center, [2]Science Systems and Applications Incorporated (SSAI), [3]University of California, Irvine, [4]Innovim LLC, [5]University of Maryland, College Park, [6]Universities Space Research Association (USRA), [7]National Oceanic and Atmospheric Administration

14:15
AS28-D2-PM1-308-002

AS28-A010
Three-Year Results of the Global Precipitation Measurement (GPM) Mission in Japan
Takuji KUBOTA[1#+], Riko OKI[1], Kinji FURUKAWA[1], Yuki KANEKO[1], Moeka YAMAJI[1], Toshio IGUCHI[2], Yukari TAKAYABU[3], Kenji NAKAMURA[4]
[1]Japan Aerospace Exploration Agency, [2]National Institute of Information and Communications Technology, [3]The University of Tokyo, [4]Dokkyo University

14:30
AS28-D2-PM1-308-003
Invited

AS28-A002
Assessment of High-Resolution TRMM-Based Precipitation Data Over Singapore
Jina HUR[1#+], Srivatsan RAGHAVAN[1], Ngoc Son NGUYEN[1], Shie-Yui LIONG[1]
[1]National University of Singapore

14:45
AS28-D2-PM1-308-004

AS28-A004
Evaluation of GSMaP Rainfall Satellite Data in Association with TC Landing at the Central Coast of Vietnam
Nga Thi Thanh PHAM[1#+], Hang VU THANH[2], Kenji NAKAMURA[3], Hong Quang NGUYEN[1], Duc Anh NGO[1]
[1]Vietnam National Satellite Center, [2]Vietnam National University, [3]Dokkyo University

15:00
AS28-D2-PM1-308-005

AS28-A006
A-Priori Database Characteristics Over the Korean Peninsula for Passive Microwave Rainfall Retrieval
Hwayoung JEOUNG[1#+], Yunbok LEE[1], Geun-Hyeok RYU[1], Jaedong JANG[1]
[1]Korea Meteorological Administration

15:15
AS28-D2-PM1-308-006
AS28-A016
APHRODITE-2: Asian Precipitation – Highly Resolved Observational Data Integration Towards Evaluation of Extreme Events -- Targets and Initial Products –
Akiyo YATAGAI[1#+], Minami MASUDA[1], Kenji KAMIGUCHI[2], Kenji TANAKA[3], Atsushi HIGUCHI[4], Koichi TOYOSHIMA[4]
[1]Hirosaki University, [2]Japan Meteorological Agency, [3]Kyoto University, [4]Chiba University

Session Chair(s) Yukari TAKAYABU, *University of Tokyo*

16:00
AS28-D2-PM2-308-007
Invited
AS28-A008
Enhancing Data Assimilation of GPM Observations
Takemasa MIYOSHI[1,2#+], Shunji KOTSUKI[1], Koji TERASAKI[1], Keiichi KONDO[1], Guo-Yuan LIEN[1], Masaki SATOH[3], Hirofumi TOMITA[1], Eugenia KALNAY[2]
[1]RIKEN Advanced Institute for Computational Science, [2]University of Maryland, [3]The University of Tokyo

16:15
AS28-D2-PM2-308-008
AS28-A001
Annual Occurrence of Pre-Monsoon Drought Over India
W. Timothy LIU[1#+], Xiaosu XIE[1]
[1]Jet Propulsion Laboratory

16:30
AS28-D2-PM2-308-009
Invited
AS28-A020
Goddard Latent Heating Algorithm for GPM: Frontal and Snow Events
Wei-Kuo TAO[1#+], Stephen LANG[1], Takamichi IGUCHI[1,2]
[1]NASA Goddard Space Flight Center, [2]University of Maryland

16:45
AS28-D2-PM2-308-010
AS28-A023
GPM SLH Latent Heating Algorithm for Extratropical Precipitation Systems
Yukari TAKAYABU[1#+], Chie YOKOYAMA[1], Atsushi HAMADA[1], Shoichi SHIGE[2], Munehisa K. YAMAMOTO[2], Moeka YAMAJI[3], Takuji KUBOTA[3], Yasutaka IKUTA[4]
[1]The University of Tokyo, [2]Kyoto University, [3]Japan Aerospace Exploration Agency, [4]Japan Meteorological Agency

17:00
AS28-D2-PM2-308-011
Invited
AS28-A014
Ground Validation of Satellite Precipitation Data: Recent Advances and New Opportunities Using the 1-km-Scale Network Wegenernet and Radar
Gottfried KIRCHENGAST[1,2#+], Sungmin O.[1], Juergen FUCHSBERGER[1], Ulrich FOELSCHE[1], Katharina SCHROEER[1], Alexander KANN[3], Reinhard TESCHL[4], Walter PETERSEN[5], Pierre-Emmanuel KIRSTETTER[6]
[1]University of Graz, [2]Chinese Academy of Sciences, [3]Zentralanstalt für Meteorologie und Geodynamik, [4]Graz University of Technology, [5]NASA Goddard Space Flight Center, [6]University of Oklahoma

17:15
AS28-D2-PM2-308-012
AS28-A003
Wet Snow Observation with Ground-Based Ka-Radar for GPM DPR Algorithm Improvement
Kenji NAKAMURA[1#+], Yuki KANEKO[2], Katsuhiro NAKAGAWA[3], Kinji FURUKAWA[2], Kenji SUZUKI[4], Riko OKI[2]
[1]Dokkyo University, [2]Japan Aerospace Exploration Agency, [3]National Institute of Information and Communications Technology, [4]Yamaguchi University

AS32 / Satellite Data Assimilation and Applications for the Weather Forecasting

Tue - 08 Aug | MR334

Session Chair(s)
Myoung Hwan AHN, *Ewha Womans University*
Kozo OKAMOTO, *Japan Meteorological Agency*
Chian-Yi LIU, *National Central University*

16:00
AS32-D2-PM2-334-001
AS32-A004
Use of Upper Tropospheric Atmospheric Motion Vectors Derived from Himawari-8 Super Rapid Scans for Tropical Cyclone Nowcasting
Ryo OYAMA[1#+], Kazuki SHIMOJI[1], Kozo OKAMOTO[1]
[1]Japan Meteorological Agency

16:15
AS32-D2-PM2-334-002
AS32-A009
The Characteristics of the Real-Time Land Surface Emissivity of the ATMs Data for Numerical Weather Prediction Model
Jisoo KIM[1+], Myoung Hwan AHN[1#], Eunjin KIM[1]
[1]Ewha Womans University

16:30
AS32-D2-PM2-334-003
AS32-A001
A Preliminary Result of the Global MPAS-GSI Model on the Typhoon Predictions
Shu-Ya CHEN[1#+], Ching-Yuang HUANG[1], Cheng-Peng SHIH[1], Wen-Hsin TENG[1], Hsiu-Wen LI[1]
[1]National Central University

16:45
AS32-D2-PM2-334-004
AS32-A002
Investigation of the Bias Correction of Satellite Data in Regional Numerical Weather Simulation
Shen-Cha HSU[1#+], Chian-Yi LIU[1]
[1]National Central University

17:00
AS32-D2-PM2-334-005
AS32-A005
Preliminary Results of Observing System Simulation Experiment (OSSE) for Future Space-Based Doppler Wind Lidar
Kozo OKAMOTO[1#+], Toshiyuki ISHIBASHI[1], Shoken ISHII[2], Philippe BARON[2], Gamo KYOKA[3], Taichu TANAKA[1], Takuji KUBOTA[4]
[1]Japan Meteorological Agency, [2]National Institute of Information and Communications Technology, [3]Fujitsu FIP Corporation, [4]Japan Aerospace Exploration Agency

17:15
AS32-D2-PM2-334-006
AS32-A008
Assimilation of High-Frequency Microwave Brightness Temperature for Improving Hydrometeors in Numerical Weather Prediction Model
Kenji TANIGUCHI[1#+]
[1]Kanazawa University

17:30
AS32-D2-PM2-334-007
AS32-A006
Satellite Data Assimilation in KMA Convective Scale Model
Hyun-Cheol SHIN[1#+], Eun Hee LEE[1], Jung-Rim LEE[1], Eun-Hee KIM[1], Hye Young KIM[1], Heejung KANG[1], Sangwon JOO[1]
[1]Korea Meteorological Administration

17:45
AS32-D2-PM2-334-008
AS32-A012
The Impacts of IASI Radiance Assimilation in the KMA Local Model
Hee Jung KANG[1#+], Jung-Rim LEE[1], Eun-Hee LEE[1], Hyun-Cheol SHIN[1], Sei Young PARK[1], Sangwon JOO[1]
[1]Korea Meteorological Administration

AS35 / Atmospheric Pollution and Its Effects on Cryospheric Changes Over the Himalayas and the Tibetan Plateau

Tue - 08 Aug | MR335

Session Chair(s) Shichang KANG, *Northwest Institute of Eco-Environment and Resources,Chinese Academy of Sciences*
Qianggong ZHANG, *Chinese Academy of Sciences*

14:00 AS35-A013
AS35-D2-PM1-335-001
Linking Atmospheric Pollution to Cryospheric Changes Over the Third Pole
Shichang KANG[1#+], Qianggong ZHANG[1], Zhenming JI[1], Yang LI[1], Jizu CHEN[1], Guoshuai ZHANG[1], Chaoliu LI[1], Zhiyuan CONG[1], Pengfei CHEN[1], Junming GUO[1], Jie HUANG[1], Lekhendra TRIPATHEE[1], Dipesh RUPAKHETI[1], Xiaofei LI[1], Yulan ZHANG[1], Arnico PANDAY[2], Maheswar RUPAKHETI[3]
[1]Chinese Academy of Sciences, [2]International Centre for Integrated Mountain Development (ICIMOD), [3]Institute for Advanced Sustainability Studies (IASS)

14:15 AS35-A021
AS35-D2-PM1-335-002
Invited
Air Pollution in South Asia and its Effects on the Cryosphere in the Tibetan Plateau
Zhiyuan CONG[1#+]
[1]Chinese Academy of Sciences

14:35 AS35-A010
AS35-D2-PM1-335-003
Carbonaceous Aerosol Composition and Their Effect on Atmosphere Over the Central Himalayas
Pengfei CHEN[1#+], Shichang KANG[1], Zhenming JI[1], Chaoliu LI[1], Qianggong ZHANG[1], Junming GUO[1]
[1]Chinese Academy of Sciences

14:50 AS35-A022
AS35-D2-PM1-335-004
Particulate and Gaseous Air Pollutants in Lumbini, Nepal (Birthplace of the Buddha) During Pre-Monsoon Season
Dipesh RUPAKHETI[1+], Bhupesh ADHIKARY[2], Siva Praveen PUPPALA[2], Maheswar RUPAKHETI[3], Shichang KANG[1#], Qianggong ZHANG[1], Zhiyuan CONG[1], Lekhendra TRIPATHEE[1], Manish NAJA[4], Arnico PANDAY[5], Khadak MAHATA[6], Mark LAWRENCE[6]
[1]Chinese Academy of Sciences, [2]International Centre for Integrated Mountain Development, [3]Institute for Advanced Sustainability Studies (IASS), [4]Aryabhatta Research Institute of Observational Sciences, [5]International Centre for Integrated Mountain Development (ICIMOD), [6]Institute for Advanced Sustainability Studies (IASS), Potsdam

15:05 AS35-A012
AS35-D2-PM1-335-005
Seasonal Variations of Organic Molecular Tracers in Atmospheric Aerosols from Lumbini in the Northern Indo-Gangetic Plain: Influence of Biomass Burning
Xin WAN[1,2+], Shichang KANG[1], Dipesh RUPAKHETI[1], Lekhendra TRIPATHEE[1], Qianggong ZHANG[1], Junming GUO[1], Pengfei CHEN[1], Maheswar RUPAKHETI[3], Arnico PANDAY[4], Kimitaka KAWAMURA[5], Guangming WU[1], Zhiyuan CONG[1#]
[1]Chinese Academy of Sciences, [2]University of Chinese Academy of Sciences, [3]Institute for Advanced Sustainability Studies (IASS), [4]International Centre for Integrated Mountain Development (ICIMOD), [5]Chubu University

Session Chair(s) Maheswar RUPAKHETI, *Institute for Advanced Sustainability Studies (IASS)*

16:00
AS35-D2-PM2-335-006
Invited

AS35-A002
Modeling of Light Absorbing Particles Effects in the Himalayas
Zhenming JI[1#+], Junhua YANG[1], Pengfei CHEN[1], Zhiyuan CONG[1]
[1]Chinese Academy of Sciences

16:20
AS35-D2-PM2-335-007

AS35-A027
Impacts of Transport on Seasonal and Interannual Variations on Black Carbon Over the Tibetan Plateau
Jingxian LIU[1#+], Yue WU[1], Bingliang ZHUANG[1], Tianliang ZHAO[2], Ye ZHU[1], Han HAN[1]
[1]Nanjing University, [2]Nanjing University of Information Science & Technology

16:35
AS35-D2-PM2-335-008

AS35-A001
Characteristics of SO2 Over North China Plain Based on the MAX-DOAS Measurement
Ting WANG[1#+], Pucai WANG[1], Francois HENDRICK[2], Van Roozendael MICHEL[2]
[1]Chinese Academy of Sciences, [2]Belgian Institute for Space Aeronomy

16:50
AS35-D2-PM2-335-009

AS35-A006
Distribution and Climate Effects of Light-Absorbing Impurities in Snow of Glacier on Mt. Yulong, Southeastern Tibetan Plateau
Hewen NIU[1#+]
[1]Chinese Academy of Sciences

17:05
AS35-D2-PM2-335-010

AS35-A005
Black Carbon and Other Light-Absorbing Impurities from Snow Cover and Glaciers Over the Third Pole Region
Yulan ZHANG[1#+]
[1]Chinese Academy of Sciences

17:20
AS35-D2-PM2-335-011

AS35-A003
Reevaluating Black Carbon Concentration in the Himalayas and Tibetan Plateau
Chaoliu LI[1#+], Shichang KANG[1], Pengfei CHEN[1], Fangping YAN[2], Mika SILLANPÄÄ[2]
[1]Chinese Academy of Sciences, [2]Lappeenranta University of Technology

17:35
AS35-D2-PM2-335-012

AS35-A017
Progresses of Study on Geochemistry of Mercury Over the Cryosphere of Western China
Jie HUANG[1+], Shichang KANG[1#], Qianggong ZHANG[1], Junming GUO[1], Zhiyuan CONG[1]
[1]Chinese Academy of Sciences

HS21 / Monthly to Seasonal Projection of Extreme Hydrologic Events

Tue - 08 Aug | MR330

Session Chair(s) Ji CHEN, *The University of Hong Kong*
Hung Soo KIM, *Inha University*

08:30
HS21-D2-AM1-330-001
HS21-A013
Global Precipitation Seasonal Forecast Skills Using Teleconnection Techniques
Linghua QIU[1+], Ji CHEN[1#]
[1]*The University of Hong Kong*

08:45
HS21-D2-AM1-330-002
HS21-A011
Seasonal Flood Forecasts Using Climate Information
Soojun KIM[1#+], Upmanu LALL[2], Hung Soo KIM[1]
[1]*Inha University*, [2]*Columbia University*

09:00
HS21-D2-AM1-330-003
HS21-A007
Spatio-Temporal Variation of Drought and Flood Events in the East River, South China
Kairong LIN[1#+], Kangming WANG[1], Yanhu HE[1]
[1]*Sun Yat-sen University*

09:15
HS21-D2-AM1-330-004
HS21-A010
Evaluation the Impact of Climate Change on Waterlogging Risk in Guangzhou City
Han ZHANG[1#+], Guoru HUANG[1]
[1]*South China University of Technology*

09:30
HS21-D2-AM1-330-005
HS21-A006
Long-Term Streamflow Forecasting with Integration of SWAT Model and a Random Forest Precipitation Generator
Zhongmin LIANG[1#+], Binquan LI[1], Tiantian TANG[1]
[1]*Hohai University*

09:45
HS21-D2-AM1-330-006
HS21-A002
Different Orders of Markov Chain Models for Precipitation Occurence Simulation: A Non-Stationary Approach
Pa Ousman BOJANG[1+], Pao-Shan YU[1#], Chen-Min KUO[1], Hung-Wei TSENG[1], Tao-Chang YANG[1]
[1]*National Cheng Kung University*

10:00
HS21-D2-AM1-330-007
HS21-A012
Seasonal Forecasting of Air Quality in Hong Kong, China
Ji CHEN[1#+], Xiaocan SUN[1]
[1]*The University of Hong Kong*

10:15
HS21-D2-AM1-330-008
HS21-A016
Unusual Seasonal and Diurnal Characteristics of Surface Urban Heat Island Intensity in India
Hiteshri SHASTRI[1#+], Subimal GHOSH[2], Beas BARIK[2]
[1]*Charotar University of Science and Technology*, [2]*Indian Institute of Technology Bombay*

IG05 / Coupling in the Whole Earth System

Tue - 08 Aug | MR332

Session Chair(s) Annie VALOVCIN, *University of California, Santa Barbara*
Toshiro TANIMOTO, *University of California, Santa Barbara*

16:00
IG05-D2-PM2-332-001
Invited
IG05-A004
Dynamic Couplings in Rotational Modes of Free Oscillation in Earth's Cores: Free-Core Nutation and Axial Torsional Libration
Benjamin Fong CHAO[1#+]
[1]*Academia Sinica*

16:15
IG05-D2-PM2-332-002
Invited
IG05-A014
Inferring Environmental Source Properties from Seismic Noise Data
Victor TSAI[1#+]
[1]*California Institute of Technology*

16:30
IG05-D2-PM2-332-003
IG05-A001
Land-Atmosphere Coupling as Revealed in Seismic Noise
Toshiro TANIMOTO[1#+], Annie VALOVCIN[1], Jiong WANG[1]
[1]*University of California, Santa Barbara*

16:45
IG05-D2-PM2-332-004
IG05-A005
Probing into the Signal Sources of the OBS Data
Emmy Tsui-Yu CHANG[1#+], Benjamin Fong CHAO[2], Char-Shine LIU[1], Yuancheng GUNG[1], Guan-Yu CHEN[3]
[1]*National Taiwan University,* [2]*Academia Sinica,* [3]*National Sun Yat-sen University*

17:00
IG05-D2-PM2-332-005
IG05-A009
The Characteristics of Microseisms in South China
Han XIAO[1+], Mei XUE[1#]
[1]*Tongji University*

17:15
IG05-D2-PM2-332-006
Invited
IG05-A011
Mechanism of Hydroacoustic to Seismic Wave Conversion from Analysis of Seismic Array Data
Sidao NI[1#+]
[1]*Chinese Academy of Sciences*

17:30
IG05-D2-PM2-332-007
IG05-A006
Pre-, Co-, And Postseismic Ionospheric Disturbances
Kosuke HEKI[1#+], Liming HE[1]
[1]*Hokkaido University*

17:45
IG05-D2-PM2-332-008
Invited
IG05-A017
Electrical Coupling Between Ionosphere and Surface Charges in the Earthquake Fault Zone
Cheng-Liing KUO[1#+], L. C. LEE[2], Yi-Ying HO[2]
[1]*National Central University,* [2]*Academia Sinica*

IG15 / Challenges in Precise Geodetic Data Analysis and Applications

Tue - 08 Aug | MR332

Session Chair(s) Junping CHEN, *Shanghai Astronomical Observatory*

14:00 IG15-A002
IG15-D2-PM1-332-001 Invited
Multi-GNSS Precise Orbit and Clock Determination at GFZ
Zhiguo DENG[1#+], Benjamin MAENNEL[1], Harald SCHUH[1,2]
[1]GFZ German Research Centre for Geosciences, [2]Technical University of Berlin

14:15 IG15-A011
IG15-D2-PM1-332-002
Analysis of Beidou Satellite Clocks in Orbit Through Two-Way Satellite Time and Frequency
Xiuqiang GONG[1#+], Junping CHEN[1], Shanshi ZHOU[1]
[1]Chinese Academy of Sciences

14:30 IG15-A008
IG15-D2-PM1-332-003
Beidou Wide Area Augmentation System Status: Design and Performance
Yueling CAO[1#+], Xiaogong HU[1], Shanshi ZHOU[1], Ran LI[1], Chengpan TANG[1]
[1]Chinese Academy of Sciences

14:45 IG15-A003
IG15-D2-PM1-332-004
Evaluation of the BDS SIS Performance
Qian CHEN[1#+], Junping CHEN[1], Yize ZHANG[2], Sainan YANG[1]
[1]Chinese Academy of Sciences, [2]Tongji University

15:00 IG15-A006
IG15-D2-PM1-332-005 Invited
The Residual Scatters Analysis of the GPS Data from Crustal Movement Observation Network of China
Qu WEIJING[1#+], Dong DANAN[2], Junping CHEN[1], Bin WU[1], Xuhua ZHOU[1]
[1]Chinese Academy of Sciences, [2]East China Normal University

15:15 IG15-A014
IG15-D2-PM1-332-006
Common-Mode Component Analysis in CMONOC GPS Time Series
Weijie TAN[1#+], Junping CHEN[2], Dong DANAN[3], Bin WU[2]
[1]Shanghai Astronomical Observatory of Chinese Academy of Sciences, [2]Chinese Academy of Sciences, [3]East China Normal University

IG25 / Multi-dimensional Aspects of Climate Change Over South Asian Region

Tue - 08 Aug | MR332

Session Chair(s) Neloy KHARE, *Ministry of Earth Sciences*

11:00 IG25-A004
IG25-D2-AM2-332-001
Late Quaternary Global Climate and Kachchh Intra-Plate Tectonics Have Engendered a Young Geological Basin: The Ranns of Kachchh, Western India
Mahesh THAKKAR[1#+]
[1]Krantiguru Shyamji Krishna Verma Kachchh University

11:15 IG25-A005
IG25-D2-AM2-332-002
Introduction to the Stratigraphic Records of Authigenic Beryllium Isotopes from the IODP Site U1430 of the East Sea
Kyeong Ja KIM[1#+], Yire CHOI[1], Gil Young KIM[1]
[1]Korea Institute of Geoscience and Mineral Resources

11:30
IG25-D2-AM2-332-003

IG25-A002
Mangrove Dynamics and Environmental Changes in the Ganga-Brahmaputra Delta, India Since Mid-Holocene
Shilpa PANDEY[1#+]
[1]Birbal Sahni Institute of Palaeosciences

IG28 / Satellite Land Product Development, Applications and Validation

Tue - 08 Aug | MR332

Session Chair(s)
Yunyue YU, *NOAA/NESDIS/STAR*
Qinhuo LIU, *Chinese Academy of Sciences*

08:30
IG28-D2-AM1-332-001

IG28-A007
Validation of Terrestrial Satellite-Derived Essential Climate Variables: Best Practices Proposed by the CEOS WGCV Land Product Validation Sub-Group
Fernando CAMACHO DE COCA[1#+], Miguel ROMAN[2], Jaime NICKESON[2], Pierre GUILLEVIC[2], Gabriela SHAEPMAN-STRUB[3], Zhousen WANG[2]
[1]EOLAB / CEOS LPV, [2]National Aeronautics and Space Administration (NASA), [3]University of Zurich

08:45
IG28-D2-AM1-332-002
Invited

IG28-A014
Environment Monitoring and Assessment Synergizing Multi-Source Remote Sensing Data
Qinhuo LIU[1#+], Jing LI[1], Bo ZHONG[1]
[1]Chinese Academy of Sciences

09:00
IG28-D2-AM1-332-003

IG28-A011
Evaluation of Land Surface Temperature in the NCEP Numerical Weather Prediction Systems with the VIIRS and GOES Products
Weizhong ZHENG[1#+], Yihua WU[1], Michael EK[1], Yunyue YU[1], Zhen SONG[2]
[1]National Oceanic and Atmospheric Administration, [2]University of Maryland, College Park

09:15
IG28-D2-AM1-332-004

IG28-A008
GOES-R ABI LST Development and Evaluation
Peng YU[1#+], Yunyue YU[2], Yuling LIU[3]
[1]University of Maryland/ National Oceanic and Atmospheric Administration, [2]National Oceanic and Atmospheric Administration, [3]University of Maryland, College Park

09:30
IG28-D2-AM1-332-005

IG28-A001
Incorporate Satellite Green Vegetation Fraction and Leaf Area Index Products into NOAA NEMS System
Yihua WU[1#+], Weizhong ZHENG[1], Michael EK[1], Yunyue YU[1], Marco VARGAS[1]
[1]National Oceanic and Atmospheric Administration

09:45
IG28-D2-AM1-332-006

IG28-A012
Evaluation of MODIS, AATSR and FY-3 VIRR Land Surface Temperature Products Across the Chinese Landmass
Jin MA[1+], Ji ZHOU[1#], Xiaodong ZHANG[1]
[1]University of Electronic Science and Technology of China

10:00
IG28-D2-AM1-332-007
Invited

IG28-A015
Joint Retrieval of Aerosol Optical Depth and Surface Reflectance Over Land Using Geostationary Satellite Data
Yong XUE[1#+]
[1]Chinese Academy of Sciences

10:15 IG28-A010

IG28-D2-AM1-332-008 Status of Land Surface Temperature and Albedo Production for JPSS Satellite Mission

Yunyue YU[1#+], Yuling LIU[2], Dongdong WANG[2], Ivan CSISZAR[1], Lihang ZHOU[1]

[1]National Oceanic and Atmospheric Administration, [2]University of Maryland, College Park

OS12 / Air-sea Interaction Over the Surrounding Waters of the Maritime Continent

Tue - 08 Aug | MR328

Session Chair(s) Lei ZHOU, *Second Institute of Oceanography*
Wen ZHOU, *City University of Hong Kong*

08:30 OS12-A016
OS12-D2-AM1-328-001 Invited
Extreme Warm Sea Surface Temperature Anomalies in the Indonesian Australian Basin
Ming FENG[1#+]
[1]Commonwealth Scientific and Industrial Research Organisation

08:45 OS12-A002
OS12-D2-AM1-328-002 Invited
Impacts of Global Oceanic Eddies on Precipitation and Sea Surface Wind
Changming DONG[1,2#+], Jin-Lin JI[3]
[1]Nanjing University of Information Science & Technology, [2]University of California, Los Angeles, [3]Xiamen University

09:00 OS12-A004
OS12-D2-AM1-328-003 Invited
Biases of Five Latent Heat Flux Products and Their Impacts on Mixed-Layer Temperature Estimate in the South China Sea
Xin WANG[1#+]
[1]Chinese Academy of Sciences

09:15 OS12-A003
OS12-D2-AM1-328-004
Watermass Analysis in the Molucca Sea and the Halmahera Sea
Lei ZHOU[1#+], Lu WANG[2], Lingling XIE[2]
[1]Shanghai Jiao Tong University, [2]Guangdong Ocean University

09:30 OS12-A008
OS12-D2-AM1-328-005
A New Synoptic Scale Resolving Model FAMIL and its Performance in Tropical Cyclones Simulation: Climatology, Variability, and a Case Study
Jinxiao LI[1+], Qing BAO[1#], Yimin LIU[1], Guoxiong WU[1]
[1]Chinese Academy of Sciences

09:45 OS12-A009
OS12-D2-AM1-328-006
Water Vapor Transport and Moisture Budget Over East China: Remote Forcing from the Two Types of El Niño
Xiuzhen LI[1#+], Wen ZHOU[2], Deliang CHEN[3], Chongyin LI[4], Jie SONG[4]
[1]Sun Yat-sen University, [2]City University of Hong Kong, [3]University of Gothenburg, [4]Chinese Academy of Sciences

10:00 OS12-A006
OS12-D2-AM1-328-007
Coupling Between Sea Surface Temperature and Wind Speed Over the Mesoscale Eddies in the South China Sea
Shuangwen SUN[1], Yue FANG[2#+]
[1]State Oceanic Administration, [2]First Institute of Oceanography, State Oceanic Administration

10:15 OS12-A012
OS12-D2-AM1-328-008
Maritime Continent Modulation on Eastern Indian Ocean - Western Pacific Ocean Atmospheric Bridge
King Yeung CHEUNG[1+], Wen ZHOU[1#]
[1]City University of Hong Kong

OS13 / Dynamics, Change, and Regional Impacts of Indo-pacific Climate Variability

Tue - 08 Aug | MR329

Session Chair(s) Wenju CAI, *Qingdao National Laboratory for Marine Science and Technology*

11:00
OS13-D2-AM2-329-001
Invited

OS13-A013
Characteristics of ENSO Extremes and the Strong 2015/16 El Niño
Agus SANTOSO[1,2#+], Michael MCPHADEN[3]
[1]University of New South Wales, [2]Commonwealth Scientific and Industrial Research Organisation, [3]National Oceanic and Atmospheric Administration

11:20
OS13-D2-AM2-329-002

OS13-A004
Continued Increase of Extreme El Niño Frequency Long After 1.5°C Warming Stabilization
Guojian WANG[1,2+], Wenju CAI[2,3#], Bolan GAN[4], Lixin WU[4], Agus SANTOSO[5,6], Michael MCPHADEN[7], Xiaopei LIN[4]
[1]Center for Southern Hemisphere Ocean Research, Commonwealth Scientific and Industrial Research Organisation, [2]Commonwealth Scientific and Industrial Research Organisation Oceans and Atmosphere, [3]Ocean University of China and Qingdao National Laboratory for Marine Science and Technology, [4]Ocean University of China, [5]University of New South Wales, [6]Commonwealth Scientific and Industrial Research Organisation, [7]National Oceanic and Atmospheric Administration

11:35
OS13-D2-AM2-329-003

OS13-A003
Risks of Extreme Positive Indian Ocean Dipole Associated with a 1.5°C Warming Target
Wenju CAI[1,2#+], Guojian WANG[2,3], Lixin WU[4], Agus SANTOSO[5,6]
[1]Ocean University of China and Qingdao National Laboratory for Marine Science and Technology, [2]Commonwealth Scientific and Industrial Research Organisation Oceans and Atmosphere, [3]Center for Southern Hemisphere Ocean Research, Commonwealth Scientific and Industrial Research Organisation, [4]Ocean University of China, [5]University of New South Wales, [6]Commonwealth Scientific and Industrial Research Organisation

11:50
OS13-D2-AM2-329-004

OS13-A002
The Role of Ocean Dynamical Thermostat in Delaying the El Niño-Like Response Over the Equatorial Pacific to Climate Warming
Yiyong LUO[1#+]
[1]Ocean University of China

12:05
OS13-D2-AM2-329-005

OS13-A006
La Niña Modoki Enhances Precipitation Over the Maritime Continent
Deni Okta LESTARI[1+], Edy SUTRIYONO[1], Sabaruddin SABARUDDIN[1], Iskhaq ISKANDAR[1#]
[1]Sriwijaya University

12:20
OS13-D2-AM2-329-006

OS13-A010
Inter-Member Variability of the Summer Northwest Pacific Subtropical Anticyclone in the Ensemble Forecast
Jing MA[1#+], Shang-Ping XIE[2], Haiming XU[1]
[1]Nanjing University of Information Science & Technology, [2]University of California San Diego

Session Chair(s) Wenju CAI, *Qingdao National Laboratory for Marine Science and Technology*
Guojian WANG, *Center for Southern Hemisphere Ocean Research, Commonwealth Scientific and Industrial Research Organisation*

14:00 OS13-A018
OS13-D2-PM1-329-007 A Western-Pole Controlled Indian Ocean Dipole Event in 2015 Modulated by Long-Term Variability
Invited
Yan DU[1#+], Lianyi ZHANG[1]
[1]*Chinese Academy of Sciences*

14:20 OS13-A015
OS13-D2-PM1-329-008 Variability of Sea Level Anomalies in Western Pacific During La Nina Events with Negative Indian Ocean Dipole
Fuwen QIU[1#+]
[1]*State Oceanic Administration*

14:35 OS13-A014
OS13-D2-PM1-329-009 Possible Roles of IODM, ENSO and SAM on Monsoon Variability
Ramesh KRIPALANI[1#+], Amita PRABHU[1], Preethi BHASKAR[1]
[1]*Indian Institute of Tropical Meteorology*

14:50 OS13-A008
OS13-D2-PM1-329-010 Upper Ocean Response to Tropical Cyclone Phailin (2013) Over the Freshwater Plume in the Northern Bay of Bengal
Yun QIU[1#+], Xinyu LIN[1]
[1]*State Oceanic Administration*

15:05 OS13-A007
OS13-D2-PM1-329-011 Evaluation of Sea Surface Temperature Diurnal Variation Models Against MTSAT-1R Data in the Tropical Warm Pool
Haifeng ZHANG[1#+], Helen BEGGS[2], Hua WANG[1], Jose RODRIGUEZ[3], Livia THORPE[4], Michael BRUNKE[5], Leon MAJEWSKI[2], Andrew KISS[1]
[1]*University of New South Wales,* [2]*Australian Bureau of Meteorology,* [3]*Met Office Hadley Centre,* [4]*UK Met Office,* [5]*University of Arizona*

OS14 / Tropical Cyclone-ocean Interactions

Tue - 08 Aug | MR329

Session Chair(s) Chunzai WANG, *South China Sea Institute of Oceanography*
Guihua WANG, *Fudan University*

08:30 OS14-A014
OS14-D2-AM1-329-001 Effect of Air-Sea Interaction on Tropical Cyclone Intensity: An Idealized Model Study
Invited
Johnny CHAN[1#+], Xiaohui ZHAO[1]
[1]*City University of Hong Kong*

08:45 OS14-A015
OS14-D2-AM1-329-002 Is the Observed Poleward Migration of Maximum Intensity Position of Tropical Cyclones Linked with the Natural Variability or Anthropogenic Warming?
Invited
Il-Ju MOON[1#+], Jihui KIM[1], Sung Hun KIM[2]
[1]*Jeju National University,* [2]*National Typhoon Center*

09:00
OS14-D2-AM1-329-003
OS14-A012
Tropical Cyclone-Ocean Interaction and Global Warming
I-I LIN[1#+], Ping HUANG[2], Chun-An SHI[1], Chun-Chi LIEN[1]
[1]National Taiwan University, [2]Chinese Academy of Sciences

09:15
OS14-D2-AM1-329-004
OS14-A025
Air-Sea Interaction in Tropical Cyclones: Integrated Observation and Modeling Approach
Shuyi S. CHEN[1#+]
[1]University of Miami

09:30
OS14-D2-AM1-329-005
OS14-A017
Ocean Internal Tide as a Killer for Intense Tropical Cyclones in the South China Sea
Shoude GUAN[1#+], Jiwei TIAN[2], Fei-Fei JIN[3,4], I-I LIN[5], Iam Fei PUN[5], John HUTHNANCE[6]
[1]Chinese Academy of Sciences, [2]Ocean University of China, [3]University of Hawaii, [4]Chinese Meteorological Agency, [5]National Taiwan University, [6]National Oceanography Centre

09:45
OS14-D2-AM1-329-006
OS14-A006
Tropical Cyclone Intensity Forecasts in the Western North Pacific with a High-Resolution Coupled Model
Kosuke ITO[1#+], Masahiro SAWADA[2], Munehiko YAMAGUCHI[2]
[1]University of the Ryukyus, [2]Japan Meteorological Agency

10:00
OS14-D2-AM1-329-007
OS14-A001
Co-Variability of Tropical Cyclones in the Western Hemisphere
Chunzai WANG[1#+]
[1]South China Sea Institute of Oceanology

Session Chair(s) I-I LIN, *National Taiwan University*

16:00
OS14-D2-PM2-329-008
OS14-A008
Intensified Inter-Annual Relationship Between Summer Tropical Cyclone Frequency Over the Western North Pacific and El Niño-Southern Oscillation After the Late-1990s
Haikun ZHAO[1#+], Chunzai WANG[2]
[1]Nanjing University of Information Science & Technology, [2]South China Sea Institute of Oceanology

16:15
OS14-D2-PM2-329-009
OS14-A011
Observed Evidence of the Upper Ocean Responses and Interactions of Super Typhoon Soudelor (2015) with Mesoscale Ocean Features
Lei ZHOU[1#+], Zenghong LIU[2], Minjie CAO[2], Chaohui SUN[2], Shaolei LU[2]
[1]Shanghai Jiao Tong University, [2]Second Institute of Oceanography

16:30
OS14-D2-PM2-329-010
OS14-A003
Upper Ocean Response to Typhoon Kalmaegi (2014) and Rammasun (2014)
Han ZHANG[1,2#+], Dake CHEN[1], Lei ZHOU[3], Xiaohui LIU[1], Daoxun KE[1]
[1]State Oceanic Administration, [2]Xiamen University, [3]Shanghai Jiao Tong University

16:45
OS14-D2-PM2-329-011
OS14-A019
Observed Three-Dimensional Structure of Ocean Cooling Induced by Pacific Tropical Cyclones
Guihua WANG[1#+], Linwei WU[2], Nathaniel JOHNSON[3], Zheng LING[2]
[1]Fudan University, [2]State Oceanic Administration, [3]University of Hawaii

17:00 OS14-A009
OS14-D2-PM2-329-012
Development of a Regional Coupled Atmosphere-Ocean Assimilation System Based on NHM-LETKF
Akiyoshi WADA[1#+], Masaru KUNII[1]
[1]*Japan Meteorological Agency*

17:15 OS14-A010
OS14-D2-PM2-329-013
Parameterizing SST Cooling Induced by Tropical Cyclones
Jun WEI[1#+]
[1]*Peking University*

17:30 OS14-A020
OS14-D2-PM2-329-014
The Development of Operational Multi-Scale Storm Surge Inundated Model and the Boulders Moved by Storm Waves
Tso-Ren WU[1#+], Yu-Lin TSAI[1], Chuen-Teyr TERNG[2]
[1]*National Central University,* [2]*Central Weather Bureau*

17:45 OS14-A023
OS14-D2-PM2-329-015
Modelling Sea Spray Fluxes Using a Coupled Atmosphere-Wave Model
Nikhil GARG[1#+], Ng Yin KWEE[1], Srikanth NARASIMALU[1]
[1]*Nanyang Technological University*

OS17 / Challenges in Coastal Management Under Variable Oceanographic Forcings

Tue - 08 Aug | MR328

Session Chair(s) Charles LEMCKERT, *University of Canberra*
Pavel TKALICH, *National University of Singapore*

11:00 OS17-A001
OS17-D2-AM2-328-001
A Comparison of Eutrophication Impacts in Two Contrasting Coastal Waters
Jie XU[1#+]
[1]*Chinese Academy of Sciences*

11:15 OS17-A003
OS17-D2-AM2-328-002
Wind-Induced Dynamics in the Persian Gulf
Md Mobassarul HASAN[1#+], Quang-Hung LUU[1], Jungwook LEE[2], Myung Eun LEE[2], Pavel TKALICH[1]
[1]*National University of Singapore,* [2]*Hyundai Engineering & Construction Co. Ltd*

11:30 OS17-A004
OS17-D2-AM2-328-003
Predicting 100-Year Changes in Storm Surge Flood Risk Due to the Interplay of Coastal Oceanographic Forcing, Estuary Morphological Change, and Adaptive Management
Jon FRENCH[1#+]
[1]*University College London*

11:45 OS17-A005
OS17-D2-AM2-328-004
Optimal Design and Nearshore Hydro-Morphodynamic Modelling by Minimization Principle
Frederic BOUCHETTE[1#+], Bijan MOHAMMADI[1]
[1]*University of Montpellier*

12:00 OS17-A007
OS17-D2-AM2-328-005 In Situ Observations of the Shelf Bottom Boundary Layer and Implications for the Catchability of Spanner Crabs (Ranina Ranina)
David SPENCER[1#], Charles LEMCKERT[1,2+], Shing Yip LEE[1], Ian BROWN[3]
[1]Griffith University, [2]University of Canberra, [3]Fisheries Queensland

OS19 / Estuarine and Coastal Oceanography: Modelling, Observations, Physics and Biogeochemistry

Tue - 08 Aug | MR328

Session Chair(s) Chai Heng LIM, *University of Malaya*
Emil STANEV, *Helmholtz-Zentrum Geesthacht Centre for Materials and Coastal Research*

14:00 OS19-A028
OS19-D2-PM1-328-001 Field Measurement of Boundary Layer Flow Over a Reef
Anabel GAMMARU[1#+], Cesar VILLANOY[1], Leilani SOLERA[1]
[1]University of the Philippines

14:15 OS19-A016
OS19-D2-PM1-328-002 Oceanographic Observations in Pago Bay, Guam
Atsushi FUJIMURA[1#+], Margaret MCMANUS[2], Christina COMFORT[2], Gordon WALKER[2], Chris OSTRANDER[2], Terry DONALDSON[1]
[1]University of Guam, [2]University of Hawaii

14:30 OS19-A006
OS19-D2-PM1-328-003 Impacts of Tide-River Dynamics on the Change of Flood Stage Profile in the Pearl River Channel Networks
Huayang CAI[1#+], Xin WANG[2], Qingshu YANG[1]
[1]Sun Yat-sen University, [2]Guangdong Hydropower Planning and Design Institute

14:45 OS19-A010
OS19-D2-PM1-328-004 Simulation on the Effects of Suspended Sediment Matters Induced by High Riverine Discharge on Coastal Mixing
Yasuhiro HOSHIBA[1#+], Yoshimasa MATSUMURA[2], Hiroyasu HASUMI[1], Sachihiko ITOH[1], Yoh YAMASHITA[3]
[1]The University of Tokyo, [2]Hokkaido University, [3]Kyoto University

15:00 OS19-A011
OS19-D2-PM1-328-005 Seasonal Variability of Wave and Current Induced by High Waves in Haeundae
Hak Soo LIM[1#+], Mujong KIM[1], Jae-Seol SIM[1]
[1]Korea Institute of Ocean Science & Technology

15:15 OS19-A026
OS19-D2-PM1-328-006 Generation of Internal Waves by a Semidiurnal Barotropic Kelvin Wave Over Wide Continental Shelves
Alexander YANKOVSKY[1#+]
[1]University of South Carolina

Session Chair(s) Sung Yong KIM, *Korea Advanced Institute of Science and Technology*
Atsushi FUJIMURA, *University of Guam*

16:00 OS19-A009
OS19-D2-PM2-328-007 Sea Surface Wind Vector Correction Using HF Radar
Yukiharu HISAKI[1#+]
[1]University of the Ryukyus

16:15 OS19-A024
OS19-D2-PM2-328-008
Spectral Descriptions of Submesoscale Surface Circulation in a Coastal Region Off the East Coast of Korea
Jang Gon YOO[1], Sung Yong KIM[1#+]
[1]*Korea Advanced Institute of Science and Technology*

16:30 OS19-A022
OS19-D2-PM2-328-009
Response of Phytoplankton Biomass in NSCS to Dynamic Nutrients Inputs in Summer
Zeting XU[1#+], Shiyu LI[1], Jia-Tang HU[1]
[1]*Sun Yat-sen University*

16:45 OS19-A007
OS19-D2-PM2-328-010
Secondary Circulation Asymmetry in a Meandering, Partially Stratified Estuary
Emil STANEV[1#+], Johannes PEIN[1], Arnoldo VALLE-LEVINSON[2]
[1]*Helmholtz-Zentrum Geesthacht (HZG),* [2]*University of Florida*

17:00 OS19-A017
OS19-D2-PM2-328-011
Physical Processes on Oxygen Dynamics in the North-Eastern Baltic Sea
Taavi LIBLIK[1#+], Stella-Theresa STOICESCU[1], Urmas LIPS[1], Maris SKUDRA[2]
[1]*Tallinn University of Technology,* [2]*Latvian Institute of Aquatic Ecology*

17:15 OS19-A003
OS19-D2-PM2-328-012
A Cabled Observatory System to Monitor Biological, Chemical, Physical Parameter for Understanding Planktonic Biodiversity
Hidekatsu YAMAZAKI[1#+], Scott GALLAGER[2], Mamoru TANAKA[1], Kunihisa YAMAGUCHI[3]
[1]*Tokyo University of Marine Science and Technology,* [2]*Woods Hole Oceanographic Institution,* [3]*Tokyo Metropolitan Government*

17:30 OS19-A029
OS19-D2-PM2-328-013
Spatio-Temporal Characterization of Dissolved Organic Carbon for Coastal Waters Off Sarawak, Borneo from Space
Nivedita SANWLANI[1#+], Nagur CHERUKURU[2], Patrick MARTIN[1], Moritz MULLER[3], Aazani MUJAHID[4]
[1]*Nanyang Technological University,* [2]*Commonwealth Scientific and Industrial Research Organisation,* [3]*Swinburne University,* [4]*Universiti Malaysia Sarawak*

17:45 OS19-A018
OS19-D2-PM2-328-014
Effects of Turbulent Bursting Events on High Suspended Sediment Concentrations of the Southern Yellow Sea, China
Jilian XIONG[1+], Ya Ping WANG[1#]
[1]*Nanjing University*

PS05-13 / Science and Exploration of Mars and Venus

Tue - 08 Aug | MR310

Session Chair(s) Shuanggen JIN, *Shanghai Astronomical Observatory*

08:30
PS05-13-D2-AM1-310-001

PS05-13-A001
Long-Term Variability of Martian Thermospheric Density from Multi-Satellite Accelerometers Observations
Shuanggen JIN[1#+], Jiandong LIU[1]
[1]*Chinese Academy of Sciences*

08:45
PS05-13-D2-AM1-310-002

PS05-13-A026
Science Highlights from MAVEN/IUVS After Two Years in Mars Orbit
Sonal JAIN[1#+], Nick SCHNEIDER[1], Justin DEIGHAN[1], Arnaud STIEPEN[2], Franck LEFÈVRE[3], Hannes GRÖLLER[4], Matteo CRISMANI[1], Michael CHAFFIN[1], Ian STEWART[1], John CLARKE[5], Majd MAYYASI[5], Joseph EVANS[6], Michael STEVENS[7], Jean-Yves CHAUFRAY[3], William MCCLINTOCK[1], Gregory HOLSCLAW[1], Franck MONTMESSIN[8], Roger YELLE[4], Daniel LO[4], Bruce JAKOSKY[1]
[1]*University of Colorado Boulder,* [2]*Université de Liège,* [3]*University Pierre et Marie Curie,* [4]*University of Arizona,* [5]*Boston University,* [6]*Computational Physics, Inc.,* [7]*Naval Research Laboratory,* [8]*University of Versailles Saint-Quentin-en-Yvelines*

09:00
PS05-13-D2-AM1-310-003
Invited

PS05-13-A004
Effects of X-Ray Flares on the Ionosphere and Human Exploration to Mars
S.A. HAIDER[1#+], Inez BATISTA[2], Mangalathayil ABDU[3], Thirupathaiah POTHURAJU[1], Siddhi Y. SHAH[1]
[1]*Physical Research Laboratory,* [2]*National Institute for Space Research,* [3]*Instituto Nacional de Pesquisas Espaciais*

09:15
PS05-13-D2-AM1-310-004

PS05-13-A016
Vertical and Lateral Electron Content in the Martian Ionosphere as Observed by the MEX Radio Science Experiment MaRS
Martin PATZOLD[1#+], Kerstin PETER[1], Silvia TELLMANN[2], Michael K. BIRD[3], Bernd HAEUSLER[4]
[1]*University of Cologne,* [2]*Rhenish Institute for Environmental Research,* [3]*University of Bonn,* [4]*Universität der Bundeswehr München*

09:30
PS05-13-D2-AM1-310-005
Invited

PS05-13-A022
Data Assimilation of the Martian Atmosphere Using the LMD GCM and a Kalman Filter
Ehouarn MILLOUR[1#+], Francois FORGET[1], Thomas NAVARRO[1]
[1]*University Pierre et Marie Curie*

09:45
PS05-13-D2-AM1-310-006

PS05-13-A009
Modeling Of Dust Climate On Mars
Keith K. C. CHOW[1#+], Kwing Lam CHAN[1], Jing XIAO[1]
[1]*Macau University of Science & Technology*

10:00
PS05-13-D2-AM1-310-007
Invited

PS05-13-A010
High Altitude Dust at Mars and Its Detection from Future Orbiter Platform
Jayesh PABARI[1#], S.A. HAIDER[1], Kinsuk ACHARYYA[1+], Rajesh Kumar SINGH[2], Ajai KUMAR[2], Abhigna JADAV[3], Bhavinkumar PANDYA[4]
[1]*Physical Research Laboratory,* [2]*Institute for Plasma Research,* [3]*VVP Engineering College,* [4]*C. U. Shah Science College*

10:15
PS05-13-D2-AM1-310-008

PS05-13-A006
Mars Rover and Orbiter Joint Positioning with Same-Beam VLBI Technique
Yong HUANG[1#+], Peijia LI[1], Qinghui LIU[1]
[1]*Chinese Academy of Sciences*

Session Chair(s) Prakash CHAUHAN, *Space Application Centre*

11:00
PS05-13-D2-AM2-310-009
Invited

PS05-13-A030
Prototype Development of Langmuir Probe Experiment (LPEX) for a Future Mars Mission
Durga Prasad KARANAM[1#+], Sanjeev MISHRA[1], Chandan KUMAR[1], S.A. HAIDER[1]
[1]*Physical Research Laboratory*

11:15
PS05-13-D2-AM2-310-010

PS05-13-A021
An Improved Retarding Potential Analyzer (RPA) for Future Mars Missions
Chandan KUMAR[1#+], Sanjeev MISHRA[1], Durga Prasad KARANAM[1], Thirupathaiah POTHURAJU[1], S.A. HAIDER[1]
[1]*Physical Research Laboratory*

11:30
PS05-13-D2-AM2-310-011
Invited

PS05-13-A035
Cloud Variability Over Martian Volcanoes Observed by Indian Mars Orbiter Mission (MOM) Using Mars Colour Camera
Prakash CHAUHAN[1#+], Nirmala JAIN[1], Nivedita SANWLANI[2]
[1]*Indian Space Research Organisation,* [2]*Nanyang Technological University*

11:45
PS05-13-D2-AM2-310-012

PS05-13-A029
Morphologic and Morphometric Study of Pitted Mounds in Southern Acidalia Planitia, Mars
Ryodo HEMMI[1#+], Hideaki MIYAMOTO[1]
[1]*The University of Tokyo*

12:00
PS05-13-D2-AM2-310-013

PS05-13-A015
The Lonar Crater, India-An Analog for Mars and Its Basaltic Alteration
Dwijesh RAY[1#+]
[1]*Physical Research Laboratory*

12:15
PS05-13-D2-AM2-310-014

PS05-13-A037
Carbon Reservoir History of Mars Constrained by Atmospheric Isotopic Measurements and Carbonate Remote Sensing
Renyu HU[1#+]
[1]*Jet Propulsion Laboratory, California Institute of Technology*

Session Chair(s) Juergen OBERST, *German Aerospace Center*

14:00
PS05-13-D2-PM1-310-015

PS05-13-A032
The Cool and Distant Formation of Mars
Ramon BRASSER[1#+], Stephen MOJZSIS[2], Soko MATSUMURA[3], Shigeru IDA[4]
[1]*Earth Life Science Institute,* [2]*University of Colorado Boulder,* [3]*University of Dundee,* [4]*Tokyo Institute of Technology*

14:15
PS05-13-D2-PM1-310-016

PS05-13-A036
TES Footprint Mapping to Mars
Eman ALTENEIJI[1#+], Michael SMITH[2], Christopher EDWARDS[3]
[1]*Mohammed Bin Rashid Space Centre,* [2]*NASA Goddard Space Flight Center,* [3]*Northern Arizona University*

14:30
PS05-13-D2-PM1-310-017
Invited

PS05-13-A041
MMX in the Context of ISAS Small Body Mission Series
Masaki FUJIMOTO[1#+]
[1]*Japan Aerospace Exploration Agency*

14:45
PS05-13-D2-PM1-310-018

PS05-13-A039
MAVEN/IUVS Observations of the Reflectance Spectrum of Phobos
Michael CHAFFIN[1#+], Justin DEIGHAN[1], Nick SCHNEIDER[1], William MCCLINTOCK[1], Ian STEWART[1], Gregory HOLSCLAW[1], Sonal JAIN[1], Matteo CRISMANI[1], Arnaud STIEPEN[2], John CLARKE[3], Franck MONTMESSIN[4], Bruce JAKOSKY[1]
[1]*University of Colorado Boulder,* [2]*Université de Liège,* [3]*Boston University,* [4]*University of Versailles Saint-Quentin-en-Yvelines*

15:00
PS05-13-D2-PM1-310-019

PS05-13-A038
Dephine – The Deimos and Phobos Interior Explorer – A Proposal to ESA's Cosmic Vision Program
Juergen OBERST[1#+], Kai WICKHUSEN[1], Konrad WILLNER[1]
[1]*German Aerospace Center (DLR)*

15:15
PS05-13-D2-PM1-310-020

PS05-13-A042
Observation Plans for Hydrated Minerals and Carbonaceous Materials on Phobos and Deimos by Near-Infrared Hyperspectral Imager Macromega
Takahiro IWATA[1#+], Tomoki NAKAMURA[2], Jean-Pierre BIBRING[3], Vincent HAMM[3], Cedric PILORGET[3], Takeshi SAKANOI[2], Hiromu NAKAGAWA[2], Sarah CRITES[1]
[1]*Japan Aerospace Exploration Agency,* [2]*Tohoku University,* [3]*University of Paris-Sud*

Session Chair(s) Takeshi IMAMURA, *University of Tokyo*

16:00
PS05-13-D2-PM2-310-021
Invited

PS05-13-A027
Cloud-Top Altimetry of Venus with Akatsuki IR2
Takehiko SATOH[1#+], Takao M. SATO[1], Yeon Joo LEE[1], George HASHIMOTO[2], Kosuke TAKAMI[3], Yasumasa KASABA[3]
[1]*Japan Aerospace Exploration Agency,* [2]*Okayama University,* [3]*Tohoku University*

16:15
PS05-13-D2-PM2-310-022

PS05-13-A034
Radio Holographic Analysis of Venus Radio Occultation Data
Takeshi IMAMURA[1#+], Mayu MIYAMOTO[1], Hiroki ANDO[2], Bernd HÄUSLER[3], Martin PÄTZOLD[4], Silvia TELLMANN[4], Toshitaka TSUDA[5], Yuichi AOYAMA[6]
[1]*The University of Tokyo,* [2]*Kyoto Sangyo University,* [3]*University of the Bundeswehr Munich,* [4]*Rhenish Institute for Environmental Research,* [5]*Kyoto University,* [6]*National Institute of Polar Research*

16:30
PS05-13-D2-PM2-310-023

PS05-13-A005
Radio Occultation Measurements in Akatsuki Mission
Hiroki ANDO[1#+], Takeshi IMAMURA[2]
[1]*Kyoto Sangyo University,* [2]*The University of Tokyo*

16:45
PS05-13-D2-PM2-310-024

PS05-13-A023
Fine Structures in the Venus Cloud Layer Revealed by Vera on Venus Express
Silvia TELLMANN[1#+], Bernd HÄUSLER[2], Martin PÄTZOLD[1], Stefan REMUS[3], Michael K. BIRD[4], Janusz OSCHLISNIOK[1]
[1]*Rhenish Institute for Environmental Research,* [2]*University of the Bundeswehr Munich,* [3]*European Space Agency,* [4]*University of Bonn*

17:00
PS05-13-D2-PM2-310-025

PS05-13-A033
The Venusian Crustal Thickness and its Implication for the Formation of Tesserae
Jinshui HUANG[1#+], An YANG[1], Daiyun WEI[1]
[1]*University of Science and Technology of China*

17:15
PS05-13-D2-PM2-310-026

PS05-13-A025
The Electric Wind of Venus: A Global and Persistent "Polar Wind" Like Ambipolar Electric Field Sufficient for the Direct Escape of Heavy Ionospheric Ions
Glyn COLLINSON[1#+], Rudy FRAHM[2], Alex GLOCER[1], Andrew COATES[3], Joseph GREBOWSKY[4], Stas BARABASH[5], Andrei FEDOROV[6], Yoshifumi FUTAANA[5], Lin GILBERT[3], George KHAZANOV[1], Tom NORDHEIM[7], David MITCHELL[8], Thomas MOORE[1], William PETERSON[9], Tielong ZHANG[10,11], John WINNINGHAM[2]
[1]*NASA Goddard Space Flight Center,* [2]*Southwest Research Institute,* [3]*University College London,* [4]*National Aeronautics and Space Administration,* [5]*Swedish Institute of Space Physics,* [6]*National Center for Scientific Research/ University of Toulouse,* [7]*Jet Propulsion Laboratory, California Institute of Technology,* [8]*University of California, Berkeley,* [9]*University of Colorado Boulder,* [10]*Austrian Academy of Sciences,* [11]*University of Science and Technology of China*

17:30
PS05-13-D2-PM2-310-027

PS05-13-A013
Characteristic of Polar Dipoles Seen by LIR Onboard the Venus Orbiter Akatsuki
Mao TAKAMURA[1#+], Makoto TAGUCHI[1], Tetsuya FUKUHARA[1], Toru KOUYAMA[2], Takeshi IMAMURA[3], Takao M. SATO[4], Masahiko FUTAGUCHI[5], Takeru YAMADA[1], Masato NAKAMURA[4], Naomoto IWAGAMI[6], Makoto SUZUKI[4], Munetaka UENO[7], Mitsuteru SATO[8], George HASHIMOTO[9], Seiko TAKAGI[10]
[1]*Rikkyo University,* [2]*National Institute of Advanced Industrial Science and Technology,* [3]*The University of Tokyo,* [4]*Japan Aerospace Exploration Agency,* [5]*Toho University,* [6]*Senshu University,* [7]*Kobe University,* [8]*Hokkaido University,* [9]*Okayama University,* [10]*Tokai University*

17:45
PS05-13-D2-PM2-310-028

PS05-13-A018
Ballooning for Venus Mission
Kinsuk ACHARYYA[1#+], S.A. HAIDER[1], Shiv Kumar GOYAL[1]
[1]*Physical Research Laboratory*

SE04 / Geomorphology and Neotectonics of Asia-Pacific Regions

Tue - 08 Aug | MR311

Session Chair(s) Xuhua SHI, *Nanyang Technological University*
Huiping ZHANG, *China Earthquake Administration*

11:00
SE04-D2-AM2-311-001
Invited

SE04-A018
Variable Coupling and Moderate Ruptures at the Boundary Between the 2004 and 2005 Great Ruptures of the Sunda Megathrust Off Sumatra
Aron MELTZNER[1#+], Paul MORGAN[1], Louisa TSANG[1], Lujia FENG[1], Eric LINDSEY[1], Emma HILL[1]
[1]*Nanyang Technological University*

11:15
SE04-D2-AM2-311-002

SE04-A016
Late Quaternary Slip Rates and Vectors on the Median Tectonic Line Active Fault Zone in Eastern Shikoku, Southwest Japan
Hideaki GOTO[1#+]
[1]*Hiroshima University*

11:30
SE04-D2-AM2-311-003
SE04-A023
Are Sediment Loads of Insular South East Asia Overestimated? - Clues from Borneo
Edgardo LATRUBESSE[1#+], Edward PARK[1], Samia AQUINO[1], Jana LIM[1]
[1]*Nanyang Technological University*

11:45
SE04-D2-AM2-311-004
SE04-A007
Cenozoic Uplift of the Qilian Shan in the Northeastern Margin of the Tibetan Plateau
Weitao WANG[1#+], Dewen ZHENG[1], Zhang PEI-ZHEN[1], Caicai LIU[1], Wenjun ZHENG[2], Daoyang YUAN[1], Huiping ZHANG[1], Jianzhang PANG[1]
[1]*China Earthquake Administration,* [2]*Sun Yat-sen University*

12:00
SE04-D2-AM2-311-005
SE04-A010
Characterizing the Transient Geomorphic Response to Base Level Fall in the Northeastern Tibetan Plateau
Huiping ZHANG[1#+], Eric KIRBY[2], John PITLICK[3], Robert ANDERSON[3], Peizhen ZHANG[4]
[1]*China Earthquake Administration,* [2]*Oregon State University,* [3]*University of Colorado Boulder,* [4]*Sun Yat-Sen University*

12:15
SE04-D2-AM2-311-006
SE04-A008
Earthquake Spatio-Temporal Migration in Northeastern Tibetan Plateau: Insights from a Geodynamic Model
Yunqiang SUN[1+], Gang LUO[1#]
[1]*University of Chinese Academy of Sciences*

Session Chair(s)
Huiping ZHANG, *China Earthquake Administration*
Renjie ZHOU, *The University of Queensland*

14:00
SE04-D2-PM1-311-007
Invited
SE04-A020
Multiple Seismic Terrace Uplifts Along the MFT, in Eastern Nepal, Imaged by a 100km-Long Lidar Survey
Cagil KARAKAS[1#+], Paul TAPPONNIER[1], Soma Nath SAPKOTA[2], Paramesh BANERJEE[1], Sorvigenaleon ILDEFONSO[1], Laurent BOLLINGER[3], Yann KLINGER[4], Magali RIZZA[5], Aurelie COUDURIER-CURVEUR[1]
[1]*Nanyang Technological University,* [2]*Department of Mines and Geology,* [3]*Commission for Atomic Energy and Alternative Energies,* [4]*Institut de Physique du Globe de Paris,* [5]*European Centre for Research and Teaching of Geosciences of the Environment (CEREGE)*

14:15
SE04-D2-PM1-311-008
SE04-A022
River Longitudinal Profiles and Basin-Wide Erosion Rates Along the Ailao Shan Shear Zone, SE Tibetan Plateau
Yang WANG[1#+], Lindsay SCHOENBOHM[2], Bo ZHANG[1], Darryl GRANGER[3], Renjie ZHOU[4], Jinjiang ZHANG[1], Jianjun HOU[1]
[1]*Peking University,* [2]*University of Toronto,* [3]*Purdue University,* [4]*University of Queensland*

14:30
SE04-D2-PM1-311-009
SE04-A011
Pleistocene Rapid Exhumation of the Diancang Shan, Southeast of the Eastern Himalayan Syntaxis: Implications for the Episodic Acceleration of the Red River Fault
Xuhua SHI[1#+], Erchie WANG[2], Rafael ALMEIDA[1], Dewen ZHENG[3], Chun FAN[4], Gang WANG[5]
[1]*Nanyang Technological University,* [2]*Chinese Academy of Sciences,* [3]*China Earthquake Administration,* [4]*China University of Geosciences,* [5]*Chengdu University of Technology*

14:45 SE04-A006
SE04-D2-PM1-311-010 Tectonic and Topographic Evolution of the Namche Barwa Syntaxis, Eastern Himalayan
Invited
Rong YANG[1#+]
[1]*Zhejiang University*

15:00 SE04-A021
SE04-D2-PM1-311-011 Investigating How the Fault Geometries and Fold Growth Affect the Surface Process Using 3D Numerical Models and Natural Examples
Zhigang LI[1#+], Dong JIA[2], Wei CHEN[3], Wenjun ZHENG[1], Zhang PEI-ZHEN[4], Shiqin LI[3], Chuang SUN[2], Tao LI[1], Jianguo XIONG[1], Zheng GONG[1], Yipeng ZHANG[1]
[1]*Sun Yat-sen University,* [2]*Nanjing University,* [3]*Southwest Petroleum University,* [4]*China Earthquake Administration*

SE12 / Preparation Process of Great Earthquakes and Related Phenomena: Observations and Debates on Potential Precursory Anomalies at Different Spatial-temporal Scales

Tue - 08 Aug | MR311

Session Chair(s) Hongfeng YANG, *Chinese University of Hong Kong*
Bin CHEN, *Institute of Geophysics, China Earthquake Administration*

08:30 SE12-A001
SE12-D2-AM1-311-001 A Mechanism for Slow Slip Prior to Devastating Earthquakes
Deepa MELE VEEDU[1#+], Sylvain BARBOT[1]
[1]*Nanyang Technological University*

08:45 SE12-A005
SE12-D2-AM1-311-002 GPS and InSAR Imaging of Early Afterslip Evolution of the 2015 Mw 7.8 Gorkha Earthquake
Guoyan JIANG[1#+], Yuebin WANG[2], Yangmao WEN[3], Yajing LIU[4], Caijun XU[3], Xiwei XU[2]
[1]*The Chinese University of Hongkong,* [2]*China Earthquake Administration,* [3]*Wuhan University,* [4]*McGill University*

09:00 SE12-A013
SE12-D2-AM1-311-003 Seismogenic Width Controls Aspect Ratios of Earthquake Ruptures
Invited
Hongfeng YANG[1#+], Huihui WENG[1]
[1]*Chinese University of Hong Kong*

09:15 SE12-A016
SE12-D2-AM1-311-004 Postseismic Process of Moderate and Large Interplate Earthquakes within the Source Area of the Megathrust Earthquakes Along the Nankai Trough
Mamoru HYODO[1], Ryoichiro AGATA[1], Tsuyoshi ICHIMURA[2], Takane HORI[1#+]
[1]*Japan Agency for Marine-Earth Science and Technology,* [2]*The University of Tokyo*

09:30 SE12-A002
SE12-D2-AM1-311-005 Interseismic Crustal Deformation in Central Nepal Himalaya Prior to 25 April Gorkha, Mw 7.8 Earthquake
Invited
P.S. SUNIL[1#+], Sreejith K. M.[2], Ajish P. SAJI[1], D.S. RAMESH[1]
[1]*Indian Institute of Geomagnetism,* [2]*Indian Space Research Organisation*

09:45 SE12-A006
SE12-D2-AM1-311-006 Complete Implementation of Green's Function Based Time Reverse Imaging in Tsunami Source Inversion
Md Jakir HOSSEN[1#+], Phil CUMMINS[2], Kenji SATAKE[3]
[1]BRAC University, [2]Australian National University, [3]The University of Tokyo

10:00 SE12-A011
SE12-D2-AM1-311-007 Chinese Mobile Geomagnetic Monitoring Array
Bin CHEN[1#+], Jiehao YUAN[1], Zhe NI[2], Shuanggui CHEN[3], Zhendong WANG[1]
[1]China Earthquake Administration, [2]Earthquake Administration of Yunnan Province, [3]Earthquake Administration of Gansu Province

SE13 / Tectonics, Geochronology and Mineral Resources of Asia Pacific Region

Tue - 08 Aug | MR327

Session Chair(s) Khin ZAW, *Tasmania University*
Kotaro YONEZU, *Kyushu University*

14:00 SE13-A001
SE13-D2-PM1-327-001 Mineralogical Studies of Gold Ores from the Kyaukpazat Mine, Kawlin-Wuntho District, Northern Myanmar
Cho Cho AYE[1#+], Ye Myint SWE[2]
[1]East Yangon University, [2]Ministry of Mines

14:15 SE13-A021
SE13-D2-PM1-327-002 Multiple Magma Generation in East Central Indochina Block During Phanezozoic and its Significance to the Regional Tectonic Evolution
Hai Thanh TRAN[1#+], Khin ZAW[2], Jacqueline HALPIN[2], Giang TRUONG NGUYEN[3], Men Thi BUI[4]
[1]Hanoi University of Mining and Geology, [2]University of Tasmania, [3]General Department of Geology and Minerals of Viet Nam, [4]National Taiwan Normal University

14:30 SE13-A018
SE13-D2-PM1-327-003 Relationship Between Gold Mineralization and Skarn Formation in Luntho Gold Deposit, Shwe Min Bon Area, Kalaw, Central Myanmar
Kotaro YONEZU[1#+], Keisuke IKEDA[1], Nyein NYEIN SINT[1], May THWE AYE[2], Koichiro WATANABE[1]
[1]Kyushu University, [2]University of Yangon

14:45 SE13-A014
SE13-D2-PM1-327-004 Alteration and Mass Changes of the Host Rocks in the Masara Gold District, Compostela Valley, Philippines
Barbie Ross VILLAPLAZA[1#+], Alfred Elmer BUENA[1], Nichole Anthony PACLE[1], Betchaida PAYOT[1], Jillian Aira GABO[1], Noelynna RAMOS[1], Carla DIMALANTA[1], Decibel FAUSTINO-ESLAVA[1], Karlo QUEAÑO[2], Walter BROWN[3], Graciano YUMUL, JR.[3,4]
[1]University of the Philippines Diliman, [2]Mines and Geosciences Bureau, [3]Apex Mining Co. Inc., [4]Monte Oro Resources & Energy, Inc.

15:00 SE13-A019
SE13-D2-PM1-327-005 Characteristics, Types and Origin of Copper Deposits in Myanmar
Khin ZAW[1#+], Ye Myint SWE[2], Tin Aung MYINT[3], Joe KNIGHT[1]
[1]University of Tasmania, [2]Ministry of Mines, [3]Mandalay University

Session Chair(s) Chocho AYE, *Yangoon University*
Kotaro YONEZU, *Kyushu University*

16:00 SE13-A002
SE13-D2-PM2-327-006 Mineralogy and Genesis of Sapphire Deposits from the Yenya-U Area in Mogok Metamorphic Belt, Thabeikkyin Township, Mandalay Division, Myanmar
Khin Mar PHYU[1#+]
[1]*Ministry of Education*

16:15 SE13-A013
SE13-D2-PM2-327-007 Host Rock Petrogenesis of the Masara Gold District, Eastern Mindanao, Philippines: Implications on Epithermal Gold Mineralization
Alfred Elmer BUENA[1#+], Barbie Ross VILLAPLAZA[1], Betchaida PAYOT[1], Jillian Aira GABO[1], Noelynna RAMOS[1], Decibel FAUSTINO-ESLAVA[1], Karlo QUEAÑO[2], Carla DIMALANTA[1], Walter BROWN[3], Graciano YUMUL, JR.[3,4]
[1]*University of the Philippines Diliman,* [2]*Mines and Geosciences Bureau,* [3]*Apex Mining Co. Inc.,* [4]*Monte Oro Resources & Energy, Inc.*

16:30 SE13-A003
SE13-D2-PM2-327-008 The Southeast Asian Tin Belt
Than HTUN[1#+]
[1]*Myanmar Precious Resources Group*

16:45 SE13-A015
SE13-D2-PM2-327-009 Mineralization of Ag-Rich Sulfide Minerals in Chimney Samples at Bayonnaise Knoll, Izu-Bonin Arc, West Pacific Ocean
Shinji KAWAGUCHI[1#+], Kotaro YONEZU[1], Thomas TINDELL[1], Koichiro WATANABE[1], Jun-Ichiro ISHIBASHI[1], Kazuhiro SHIMADA[1], Tatsuo NOZAKI[2]
[1]*Kyushu University,* [2]*Japan Agency for Marine-Earth Science and Technology*

17:00 SE13-A009
SE13-D2-PM2-327-010 Superplume Activity in Precambrian Shield of Karbi Hills, Ne India: Impact on Metallogeny
Dilip MAJUMDAR[1#+]
[1]*Dibrugarh University*

17:15 SE13-A012
SE13-D2-PM2-327-011 Initial Study on the Zonation of Mineral Assemblages, DMLZ Deposit, Ertsberg Mining District, Papua, Indonesia
Shota NAKAO[1#+], Kotaro YONEZU[1], Thomas TINDELL[1], Mega Fatimah ROSANA[2], Benny BENSAMAN[3]
[1]*Kyushu University,* [2]*Padjadjaran University,* [3]*PT. Eksplorasi Nusa Jaya Freeport Indonesia*

17:30 SE13-A011
SE13-D2-PM2-327-012 Origin of Diagenetic Signal in Hydrogenetic Ferromanganese Crusts from Petit-Spot Volcanoes
Keishiro AZAMI[1#+], Naoto HIRANO[1], Naoya TAKAHASHI[2], Takahiro WATANABE[2]
[1]*Tohoku University,* [2]*Japan Atomic Energy Agency*

17:45 SE13-A017
SE13-D2-PM2-327-013 The Composition of Quartz Veins in Pasir Karang Gold Prospect, Kerta Area, Banten Province, Indonesia
Febby Yudhi PRATAMA[1#+], Kotaro YONEZU[1], Mega Fatimah ROSANA[2]
[1]*Kyushu University,* [2]*Padjadjaran University*

SE21 / Fault Ruptures, Active Tectonics and Seismic Hazard of Southeast and East Asia

Tue - 08 Aug | MR327

Session Chair(s) Yu WANG, *Nanyang Technological University*

08:30
SE21-D2-AM1-327-001
SE21-A043
A Report of the December 6, 2016 MW 6.5 Pidie Jaya, Aceh Earthquake
Muzli MUZLI[1,2+], Gatut DANIARSYAD[2], Andri Dian NUGRAHA[3], Muksin UMAR[4], Sri WIDIYANTORO[3], Kyle BRADLEY[1], Teng WANG[1], Philippe JOUSSET[5], Kemal ERBAS[5], Irwandi NURDIN[4], Shengji WEI[1#]
[1]Nanyang Technological University, [2]Meteorological Climatological and Geophysical Agency of Indonesia, [3]Bandung Institute of Technology, [4]Syiah Kuala University, [5]GFZ-Potsdam

08:45
SE21-D2-AM1-327-002
SE21-A011
Implications of the Seismo-Tectonics Damage Patterns of the 2014 Chiang Rai, Thailand, Earthquake
Passakorn PANANONT[1#+], Matthew HERMAN[2], Patinya PORNSOPIN[1], Kevin P. FURLONG[2], Felix WALDHAUSER[3], Suwith KOSUWAN[4]
[1]Kasetsart University, [2]Penn State University, [3]Columbia University, [4]Department of Mineral Resources

09:00
SE21-D2-AM1-327-003
SE21-A006
A New Seismic Hazard Model for Mainland China
Yufang RONG[1#+], Xiwei XU[2], Guihua CHEN[2], Jia CHENG[2], Harold MAGISTRALE[1], Zheng-Kang SHEN[3]
[1]FM Global, [2]China Earthquake Administration, [3]University of California, Los Angeles

09:15
SE21-D2-AM1-327-004
SE21-A009
Seismic Site Conditions of China Based on Geology
Guihua CHEN[1], Harold MAGISTRALE[2#+], Sait BINSELAM[2], Yufang RONG[2], Jia CHENG[1], Xiwei XU[1]
[1]China Earthquake Administration, [2]FM Global

09:30
SE21-D2-AM1-327-005
SE21-A018
Reconciling Short and Long Term Observations of Megathrust Cycles Along the Sumatra-Andaman Margin and Other Subduction Zones
Rob GOVERS[1#+], Kevin P. FURLONG[2]
[1]Utrecht University, [2]Penn State University

09:45
SE21-D2-AM1-327-006
SE21-A004
Geometrically Different Attractors with Heat, Fluid Pressure and Dilatancy and its Seismological Implications
Takehito SUZUKI[1#+]
[1]Aoyama Gakuin University

10:00
SE21-D2-AM1-327-007
SE21-A008
Ground Motion Prediction Equations for China
Donny DANGKUA[1], Yufang RONG[1], Harold MAGISTRALE[1#+]
[1]FM Global

Session Chair(s) Myo THANT, *Monywa University*

11:00
SE21-D2-AM2-327-008
SE21-A014
The Role of Social Media in Macroseismic Mapping of the MW 6.9 Kani and MW 6.8 Chauk Earthquakes of 2016 in Myanmar
Lin Thu AUNG[1,2#+], Yu WANG[1], Stacey MARTIN[1], Myo THANT[3,4], Khaing Nyein HTAY[2], Saw Ngwe KHAING[4,5], Soe MIN[6], Kaung SITHU[7], Hla Myo AUNG[8], Ei Mhon Nathar MYO[9], Phyo Maung MAUNG[1], Tezar KYAW[3], Tun NAING[10]
[1]Nanyang Technological University, [2]Myanmar Geosciences Society, [3]Monywa University, [4]Myanmar Earthquake Committee, [5]Hinthada University, [6]Taungoo University, [7]Pathein University, [8]Mandalay Technological University, [9]University of Yangon, [10]Yangon Technological University

11:15
SE21-D2-AM2-327-009
SE21-A015
Characterization of Seismicity of the Recent Magnitude 6.8 Earthquakes in Myanmar
Myo THANT[1,2#+]
[1]Monywa University, [2]Myanmar Earthquake Committee

11:30
SE21-D2-AM2-327-010
SE21-A016
Geology and Structural Significance of Yazagyo Area, Western Ranges, Myanmar
Saw Ngwe KHAING[1,2#+], Win NAING[3], Soe Thura TUN[2], Myo THANT[2,3], Aung Myat KYAW[4], Cho OO[4]
[1]Hinthada University, [2]Myanmar Earthquake Committee, [3]Monywa University, [4]Myanmar Geosciences Society

11:45
SE21-D2-AM2-327-011
SE21-A020
Seismic Hazard Assessment Over Time: Modelling Earthquakes in Taiwan
Chung-Han CHAN[1#+], Yu WANG[1], Yu-Ju WANG[2], Ya-Ting LEE[3]
[1]Nanyang Technological University, [2]Institute of Nuclear Energy Research, [3]National Central University

12:00
SE21-D2-AM2-327-012
SE21-A023
Coulomb Stress Changes by the 2016 Mw 6.7 Imphal, Manipur Earthquake and its Impact on Regional Seismicity in Northeast India
R.B.S. YADAV[1#+], Chung-Han CHAN[2], Ajay Pratap SINGH[3], Sumer CHOPRA[3]
[1]Kurukshetra University, [2]Nanyang Technological University, [3]Institute of Seismological Research

12:15
SE21-D2-AM2-327-013
SE21-A033
Revisiting the 1976 MW8.1 Moro Gulf Earthquake and Tsunami in Western Mindanao Island, Philippines
Noelynna RAMOS[1#+], Sheinna May CLARO[1], Kathrine MAXWELL[1], Daisuke ISHIMURA[2]
[1]University of the Philippines Diliman, [2]Tokyo Metropolitan University

SE25 / General Solid Earth Section

Tue - 08 Aug | MR311

Session Chair(s) Hai Thanh TRAN, *Hanoi University of Mining and Geology*
Khin ZAW, *CODES ARC Centre of Excellence in Ore Deposits*

16:00
SE25-D2-PM2-311-001
SE25-A004
Hydrothermal Recrystallization of Dunitic Olivine in Peridotite from Pyaung-Gaung, Mogok, Myanmar
Kyaw THU[1#+], George E. HARLOW[2]
[1]Macle Gem Trade Laboratory, [2]American Museum of Natural History

16:15
SE25-D2-PM2-311-002
SE25-A008
Rupture of a Dilatant Geological Interface
A.P.S. SELVADURAI[1#+]
[1]McGill University

16:30
SE25-D2-PM2-311-003
SE25-A015
Near-Source Effect on Ground Motions Across a Semi-Cylindrical Convex Topography
Kao-Hao CHANG[1#+]
[1]Chung Yuan Christian University

16:45
SE25-D2-PM2-311-004
SE25-A038
Applications of Iterative Cross-Correlation on Data of Borehole Broadband Array in Taiwan
Po-Li SU[1#+], Po-Fei CHEN[1], Chien-Hsin CHANG[2]
[1]National Central University, [2]Central Weather Bureau

SS04 / A Water Rich World Revealed

Tue - 08 Aug | MR331

Session Chair(s)
Jian-Yang LI, *Planetary Science Institute*
Adrian NEESEMANN, *Freie Universitat Berlin*
Andrea RAPONI, *National Institute for Astrophysics*

16:00
SS04-D2-PM2-331-001
Invited

SS04-A004
Paradigm Shift in the Main Belt: Dawn Reveals a Once Frozen Ocean World
Chris RUSSELL[1#+], Carol RAYMOND[2], Julie CASTILLO-ROGEZ[2], Andreas NATHUES[3], Maria Cristina DE SANCTIS[4], Thomas PRETTYMAN[5,6], Harry MCSWEEN[7], Ralf JAUMANN[8], Carle PIETERS[9], Michael TOPLIS[10], Debra BUCZKOWSKI[11], David WILLIAMS[12], Harald HIESINGER[13], Ryan PARK[2], Jian-Yang LI[5], Eleonora AMMANNITO[1]
[1]University of California, Los Angeles, [2]Jet Propulsion Laboratory, California Institute of Technology, [3]Max-Planck Institute for Solar System Research, [4]National Institute for Astrophysics (INAF), [5]Planetary Science Institute, [6]University of New Mexico, [7]University of Tennessee at Knoxville, [8]German Aerospace Center (DLR), [9]Brown University, [10]National Centre of Scientific Research, [11]Johns Hopkins University Applied Physics Laboratory, [12]Arizona State University, [13]University of Münster

16:20
SS04-D2-PM2-331-002
Invited

SS04-A006
The Geological Mapping of Ceres from NASA's Dawn Mission
David WILLIAMS[1#+], Scott MEST[2], Debra BUCZKOWSKI[3], Jennifer SCULLY[4], Ralf JAUMANN[5], Carol RAYMOND[4], Christopher RUSSELL[6]
[1]Arizona State University, [2]Planetary Science Institute, [3]Johns Hopkins University Applied Physics Laboratory, [4]Jet Propulsion Laboratory, California Institute of Technology, [5]German Aerospace Center (DLR), [6]University of California, Los Angeles

16:40
SS04-D2-PM2-331-003
Invited

SS04-A001
The Mineralogy of Ceres' Surface
Andrea RAPONI[1#+], Maria Cristina DE SANCTIS[2], Eleonora AMMANNITO[3], Carol RAYMOND[4], Christopher RUSSELL[3]
[1]National Institute for Astrophysics, [2]National Institute for Astrophysics (INAF), [3]University of California, Los Angeles, [4]Jet Propulsion Laboratory, California Institute of Technology

17:00
SS04-D2-PM2-331-004
Invited

SS04-A002
Origins and Evolution of Ceres – Clues from Surface Chemistry
Thomas PRETTYMAN[1,2#+], Naoyuki YAMASHITA[1], Michael TOPLIS[3], Harry MCSWEEN[4], Julie CASTILLO-ROGEZ[5], Norbert SCHORGHOFER[1], Simone MARCHI[6], William FELDMAN[1], David LAWRENCE[7], Eleonora AMMANNITO[8], Bethany EHLMANN[5], Olivier FORNI[3], Hanna SIZEMORE[1], Steve JOY[8], Carol POLANSKEY[5], Marc RAYMAN[5], Carol RAYMOND[5], Chris RUSSELL[8]
[1]Planetary Science Institute, [2]University of New Mexico, [3]National Centre of Scientific Research, [4]University of Tennessee at Knoxville, [5]Jet Propulsion Laboratory, California Institute of Technology, [6]Southwest Research Institute, [7]Johns Hopkins University, [8]University of California, Los Angeles

17:20
SS04-D2-PM2-331-005
Invited

SS04-A003
The Formation and Evolution of the Bright Faculae in Occator Crater on Ceres
Jennifer SCULLY[1#], Debra BUCZKOWSKI[2], Paul SCHENK[3], Adrian NEESEMANN[4+], Carol RAYMOND[1], Christopher RUSSELL[5], Michael BLAND[6], Julie CASTILLO-ROGEZ[1], Lynnae QUICK[7], Ottaviano RUESCH[8], Britney SCHMIDT[9]
[1]Jet Propulsion Laboratory, California Institute of Technology, [2]Johns Hopkins University Applied Physics Laboratory, [3]Universities Space Research Association, [4]Freie Universität Berlin, [5]University of California, Los Angeles, [6]United States Geological Survey, [7]Planetary Science Institute, [8]NASA Goddard Space Flight Center/Oak Ridge Associated Universities, [9]Georgia Institute of Technology

SS07 / Geoscientists Without Borders®: Geoscience Applications for Humanitarian Benefit

Tue - 08 Aug | MR330

Session Chair(s) Nancy HOUSE, *Society of Exploration Geophysicists*

14:00
SS07-D2-PM1-330-001
Invited

SS07-A002
Securing Water Supplies for the Remote Aboriginal Community of Milingimbi Island, NT
Eddie BANKS[1], Vincent POST[1], Joanna ELLIS[2], Lauren HOUTHUYSEN[1], William DEAN[1], Sylvester YAKAI[1], Kevin CAHILL[3], Okke BATELAAN[1#+]
[1]Flinders University, [2]Power and Water Corporation, [3]Commonwealth Scientific and Industrial Research Organisation

14:15
SS07-D2-PM1-330-002
Invited

SS07-A004
Bridge Over Troubled Water: Tsunami Disaster Prevention in Java
Carolus PRASETYADI[1#+], Ron HARRIS[2], Sarah HALL[3], Jessica PETTERSSON[3], Chad EMMETT[2], Eko PARIPURNO[4], Irina RAFLIANA[4], Hanif IBADURRAHMAN[2], Gelong SETIAD[1], Allayna MCFARLANE[2], Sara WHITE[2], Rachel DUNN[5], Ade SUMARIYAH[1], Nova ROOSMAWATI[1]
[1]University Pembangan National, [2]Brigham Young University, [3]Utah Valley University, [4]Indonesian Institute of Science, [5]In Harm's Way

14:30
SS07-D2-PM1-330-003
Invited

SS07-A003
Establishing Earthquake Monitoring in Timor-Leste
Meghan MILLER[1#+], Leland J O'DRISCOLL[2], Eugenio SOARES[3], Luis TEOFILO[3], Cooper HARRIS[4], Helio GUTERRES[3]
[1]Australian National University, [2]University of Oregon, [3]Institute of Petroleum and Geology, [4]University of Southern California

14:45
SS07-D2-PM1-330-004
Invited

SS07-A001
Mapping the Warrens of Southern Hairy-Nosed Wombats (Lasiorhinus Latifrons) Using Ground Penetrating Radar (GPR): An Effective Tool to Assist Wildlife Managers
Michael SWINBOURNE[1], Michael HATCH[1#+], David TAGGART[1], Elissa SPARROW[2], Bertram OSTENDORF[1]
[1]The University of Adelaide, [2]South Australian Department of Environment, Water and Natural Resources

SS08 / UNESCO Water Security Initiatives for Enhanced Resilience and 2030 Agenda Delivery in Asia and the Pacific Region

Tue - 08 Aug | MR330

Session Chair(s) Ai SUGIURA, *UNESCO Regional Science Bureau for Asia and the Pacific*
Sharizad SULAIMAN, *UNESCO Regional Science Bureau for Asia and the Pacific*

16:00 SS08-A002
SS08-D2-PM2-330-001 Catalogues of Hydrologic Analysis for Hydro-Resilient Asia Pacific Region
Invited Kenichiro KOBAYASHI[1#+]
[1]*Kobe University*

16:20 SS08-A003
SS08-D2-PM2-330-002 Development of a National Water Security Atlas to Support Sustainable Water Governance in Iran
Invited Ali CHAVOSHIAN[1#+], Shahab ARAGHINEJAD[2]
[1]*Regional Centre on Urban Water Management (RCUWM),* [2]*University of Tehran*

16:40 SS08-A004
SS08-D2-PM2-330-003 UNESCO Water Security Initiatives for Enhanced Resilience and 2030 Agenda Delivery in Asia and the Pacific Region
Invited Shahbaz KHAN[1#+]
[1]*United Nations Educational, Scientific and Cultural Organization (UNESCO)*

17:00 SS08-A005
SS08-D2-PM2-330-004 Malaysia's Water Security and SDG: Development of a National Water Balance Management System: Case Study of the Muda River Basin
Invited Nor Hisham BIN MOHD GHAZALI[1+], Asnor Muizan ISHAK[1#]
[1]*Department of Irrigation and Drainage Malaysia*

17:20 SS08-A006
SS08-D2-PM2-330-005 New Strategy and Implementation Framework of International Flood Initiative
Invited Mamoru MIYAMOTO[1#+]
[1]*International Center for Water Hazards and Risk Management (ICHARM)*

SS10 / Environmental Research with Global Navigation Satellite System (GNSS) Data

Tue - 08 Aug | MR331

Session Chair(s) Jack A. KAYE, *National Aeronautics and Space Administration (NASA)*

14:00 SS10-A004
SS10-D2-PM1-331-001
Invited
Scientific Accomplishments of the COSMIC Mission After Ten Years in Orbit
Bill KUO[1#+], William SCHREINER[1], Sergey SOKOLOVSKIY[1], Shu-Peng HO[1]
[1]University Corporation for Atmospheric Research

14:15 SS10-A002
SS10-D2-PM1-331-002
Invited
Advancing Atmospheric Science Using GNSS Radio Occultation: Recent Progress and Future Outlook
Chi AO[1#+], Anthony MANNUCCI[1], Panagiotis VERGADOS[1], Olga VERKHOGLYADOVA[1], Byron IIJIMA[1], Kuo-Nung WANG[1]
[1]Jet Propulsion Laboratory, California Institute of Technology

14:30 SS10-A003
SS10-D2-PM1-331-003
Invited
Atmospheric Climate Monitoring with GNSS Radio Occultation
Andrea K. STEINER[1#+]
[1]University of Graz

14:45 SS10-A001
SS10-D2-PM1-331-004
Invited
Status of a Formosat GNSS-R Mission
Jyh-Ching JUANG[1#+]
[1]National Cheng Kung University

HS Poster Presentations

Tue - 08 Aug, 14:00 - 15:30 | Summit

HS01-D2-PM1-P-016
HS01-A001
A Set of Metrics for the Effective Evaluation of Point Forecasting Methods Used for Hydrological Tasks
Georgia PAPACHARALAMPOUS[1#+], Hristos TYRALIS[1], Demetris KOUTSOYIANNIS[1]
[1]National Technical University of Athens

HS01-D2-PM1-P-017
HS01-A003
Applicability of a Flood Forecasting Method Utilizing Radar Rainfall Estimates to a River Basin: A Case Study in the Jinzu River Basin, Japan
Danang Dwi ADMOJO[1#+], Taichi TEBAKARI[1], Mamoru MIYAMOTO[2]
[1]Toyama Prefectural University, [2]International Center for Water Hazards and Risk Management (ICHARM)

HS01-D2-PM1-P-018
HS01-A004
Floods Simulation in Ungauged Small Catchments Based on a Distributed Model
Ying GUO[1#+], Huimin LEI[1]
[1]Tsinghua University

HS01-D2-PM1-P-019
HS01-A005
Impact of Climate Change on Runoff and Uncertainty Analysis
Yimin WANG[1#+], Jianxia CHANG[1], Hongxue ZHANG[1], Shuhong MO[1]
[1]Xi'an University of Technology

HS01-D2-PM1-P-020
HS01-A010
Component Combination Test to Investigate the Improvement of the Model Performance
Chungsoo KIM[1#+], Cho-Rong KIM[1]
[1]Korea Institute of Civil Engineering and Building Technology

HS01-D2-PM1-P-021
HS01-A017
A Novel Stream-Burning Method Based on Land-Cover Data
Tao WU[1#+], Tiejian LI[1]
[1]Tsinghua University

HS01-D2-PM1-P-022
HS01-A019
Numerical Modeling of Influences of Point Source and Non-Point Source Pollution on Water Quality in the Pearl River Basin in South China
Xiao FENG[1#+], Ji CHEN[1]
[1]The University of Hong Kong

HS01-D2-PM1-P-023
HS01-A026
Innovative Applications of Satellite Data and Data Mining Techniques: Flood Risk Assessment
Dongeon KIM[1#+], Philippe GOURBESVILLE[2], Shie-Yui LIONG[1]
[1]National University of Singapore, [2]University of Nice Sophia Antipolis

HS01-D2-PM1-P-024
HS01-A028
Groundwater Variation Prediction Concept Model Depending on Rock Type and Geological Structure During Excavation
Woo-Seok KIM[1#+], Oil KWON[1], Jang-Hwan CHA[2], Dong-Min KIM[1]
[1]Korea Institute of Civil Engineering and Building Technology, [2]Incity Co. Ltd

HS01-D2-PM1-P-025
HS01-A029
Development of a Reclaimed-Water Scheme for Global Hydrological Models
Sayaka YOSHIKAWA[1#+], Shinjiro KANAE[1]
[1]Tokyo Institute of Technology

HS01-D2-PM1-P-026
HS01-A032
Irrawaddy River: An Initial Assessment on Suspended Sediment Transport and Spatiotemporal Suspended Sediment Distribution Patterns
Edward PARK[1#+], Edgardo LATRUBESSE[1], Samia AQUINO[1]
[1]Nanyang Technological University

HS03-D2-PM1-P-007
HS03-A002
Development of Deep Learning Technique for Analyzing Sandstone CT Images
I-Hsien LEE[1+], Chuen-Fa NI[1#], Yun-Chen YU[2], Yun An WU[1], Wei-Ci LI[1], Chi-Ping LIN[1]
[1]National Central University, [2]Atomic Energy Council

HS03-D2-PM1-P-008
HS03-A004
Numerical Modeling of Dual Domain Flow and Transport in Fractured Formations
Chuen-Fa NI[1#+], I-Hsien LEE[1], Fang-Pang LIN[2], Wei-Ci LI[1], Chi-Ping LIN[1]
[1]National Central University, [2]National Center for High Performance Computing

HS03-D2-PM1-P-009
HS03-A008
A Study of Building the Hydrogeological Apparent Model for the Chia-Nan Coastal Plain of the SW Taiwan Using the Resistivity Measurements
Ping-Yu CHANG[1#+], Jui-Pin TSAI[2], Liang-Cheng CHANG[2]
[1]National Central University, [2]National Chiao Tung University

HS03-D2-PM1-P-010
HS03-A009
Implementation of Particle Tracking Approach to Asses Radionuclide Transport at a Large-Scale Test Area
I-Hsien LEE[1+], Chuen-Fa NI[1#], Yun-Chen YU[2], Yuan-Chieh WU[2]
[1]National Central University, [2]Atomic Energy Council

HS03-D2-PM1-P-011
HS03-A014
Benchmark Tests of Simulating Steady-State Flow and Particle Tracking in Large-Scale Test Area
Yun-Chen YU[1+], Yuan-Chieh WU[1], I-Hsien LEE[2#], Chuen-Fa NI[2]
[1]Atomic Energy Council, [2]National Central University

HS03-D2-PM1-P-012
HS03-A016
Estimation of Spatial Distribution of Specific Yield by Fusion of Hydraulic Tomography and Gravity Measurements
Jui-Pin TSAI[1#+], C.C CHENG[1], Yuanyuan ZHA[2], Liang-Cheng CHANG[1], Cheinway HWANG[1], Jim YEH[3]
[1]National Chiao Tung University, [2]Wuhan University, [3]University of Arizona

HS03-D2-PM1-P-013
HS03-A017
Underground Water Flow Monitoring Using Self-Potential Method
Kaiyan HU[1#+], Qinghua HUANG[1], Katsumi HATTORI[2]
[1]Peking University, [2]Chiba University

HS03-D2-PM1-P-014
HS03-A018
An Extended Kalman Filter Method for the Groundwater Parameter Estimation
Ting-Hsin CHANG[1+], Hwa-Lung YU[1#]
[1]National Taiwan University

HS06-D2-PM1-P-009
HS06-A003
An Extensive Review and Comparison of R Packages on the Long-Range Dependence Estimators
Hristos TYRALIS[1#+], Panayiotis DIMITRIADIS[1], Demetris KOUTSOYIANNIS[1]
[1]*National Technical University of Athens*

HS06-D2-PM1-P-010
HS06-A006
Evaluation of Regional Snow Distribution Effect by Using Chemical Feature Data
Ayami SUZUKI[1#+], Shiho YABUSAKI[2], Ken SUZUKI[1], Seiki KAWAGOE[1]
[1]*Fukushima University,* [2]*Research Institute of Humanity and Nature*

HS06-D2-PM1-P-011
HS06-A007
Influence of External Loads on Characteristic Reservoir Upstream as Climate Condition
Ken SUZUKI[1#+], Izumi ARAKAKI[1], Seiki KAWAGOE[1]
[1]*Fukushima University*

HS06-D2-PM1-P-012
HS06-A008
Short-Term Characteristics of Chlorophyll-A Concentration in Summer in Guanting Reservoir, China
Zhanjie LI[1#+], Jingshan YU[1], Jingyu ZHANG[1]
[1]*Beijing Normal University*

HS06-D2-PM1-P-013
HS06-A013
Half-Truncated Gaussian Fitting for Parameters Estimation of Radar Rainfall Estimator
Gildo KIM[1#+], Yonghun RO[2], Minseok KANG[2], Chulsang YOO[2]
[1]*KOREA UNVIERSITY,* [2]*Korea University*

HS06-D2-PM1-P-014
HS06-A014
Accuracy of the Radar Rainfall Estimation for Korean X-band Radar (KXR)
Jungsoo YOON[1#+], Seok Hwan HWANG[1], Byunghwa OH[1]
[1]*Korea Institute of Civil Engineering and Building Technology*

HS06-D2-PM1-P-015
HS06-A016
Further Development of Radar Rainfall Ensemble Simulator Using Bayesian Quantile Regression and Copula Function Method
Tae Jeong KIM[1#+], Dong-Ryul LEE[2], Hyun-Han KWON[1]
[1]*Chonbuk National University,* [2]*Korea Institute of Civil Engineering and Building Technology*

HS06-D2-PM1-P-016
HS06-A017
Assessment for Estimating Surface Soil Moisture Based on Apparent Thermal Inertia from MODIS Products in Northeast Asia
Seongkyun KIM[1+], Jongjin BAEK[1], Minha CHOI[1,2#]
[1]*Sungkyunkwan University,* [2]

HS06-D2-PM1-P-017
HS06-A020
Evaluation of SMAP Soil Moisture in Northeast Asia Using Ground-Based Observations
Jeong Yeong KIM[1+], Daeun KIM[1], Jaehwan JEONG[1], Minha CHOI[1,2#]
[1]*Sungkyunkwan University,* [2]

HS06-D2-PM1-P-018
HS06-A021
Uncertainties in QPE of Radar-Rainfall : A Case Study on Biseulsan Radar in Korea
Hui-Seong NOH[1#+], Bong-Joo JANG[1], Seok Hwan HWANG[1], Dong-Ryul LEE[1]
[1]*Korea Institute of Civil Engineering and Building Technology*

HS07-D2-PM1-P-007 HS07-A004
Development of Regional Slope Failure Probability Model Due to Climate Change
Saito YOSUKE[1#+], Thi Thanh Thuy LE[1], Seiki KAWAGOE[1]
[1]Fukushima University

HS07-D2-PM1-P-008 HS07-A007
Mean-Field-Bias Correction of Radar Rainfall by Backward Storm Tracking Method
Wooyoung NA[1#+], Minseok KANG[1], Jungmo KU[1], Chulsang YOO[1]
[1]Korea University

HS07-D2-PM1-P-009 HS07-A010
Dam Break Analysis for Flood Management – A Case Study of Hirakud Dam, India
Rhythm PATEL[1+], Dhiraj JHUNJHUNWALA[1], PC NAYAK[2], Roshan Karan SRIVASTAV[1#]
[1]VIT University, [2]National Institute of Hydrology

HS07-D2-PM1-P-010 HS07-A011
Development of Flood Warning and Snowfall Estimation System Using Hydrological Radars
Myoungsun HAN[1#+], Dong-Ryul LEE[1], Jeongho CHOI[2]
[1]Korea Institute of Civil Engineering and Building Technology, [2]Korea University

HS08-D2-PM1-P-007 HS08-A004
Estimation of Actual Groundwater Pumping Amount Using Electricity Use Data in the Haean Basin of Korea
Han-Sun RYU[1+], Woo-Hyun JEON[1], Jin-Yong LEE[1#]
[1]Kangwon National University

HS08-D2-PM1-P-008 HS08-A006
Investigation of Groundwater Recharge from a Paddy Rice Field During Rice Growing Season in the Haean Basin of Korea
Gyeong Seon SHIN[1+], Sang Woong YUN[1], Jin-Yong LEE[1#]
[1]Kangwon National University

HS08-D2-PM1-P-009 HS08-A008
Non-Point Source Phosphate and Nitrate Modelling Using Swat in San Jacinto Basin, Texas, USA
Prachi RANA[1+], Shreya BHUSNUR[1], Sayantan SAMANTA[2#], Nikhil BHATIA[2], Roshan Karan SRIVASTAV[1]
[1]VIT University, [2]Texas A&M University

HS09-D2-PM1-P-005 HS09-A004
Experimental Study of Flow Over Trench Weir with T-Shaped Bars
Swati BHAVE[1#+], Zulfequar AHMAD[1], Sanjeev KUMAR[2]
[1]Indian Institute of Technology Roorkee, [2]Graphic Era University

HS09-D2-PM1-P-006 HS09-A005
Multi-Objective Reservoir Operation Based on Improved NSGA-Ⅱ
Jianxia CHANG[1#+], Yimin WANG[1], Xuebin WANG[1], Xuejiao MENG[1], Shuhong MO[1]
[1]Xi'an University of Technology

HS09-D2-PM1-P-007 HS09-A007
Estimation of In-Situ Bioremediation System Cost Using a Hybrid Extreme Learning Machine (ELM)-Particle Swarm Optimization Approach
Basant YADAV[1#+], Shashi MATHUR[1], Sudheer CH[2], Jan ADAMOWSKI[3]
[1]Indian Institute of Technology Delhi, [2]Ministry of Environment, Forest & Climate Change, [3]McGill University

HS09-D2-PM1-P-008
HS09-A010
Examining the Impact of Operational Flexibility on the Performance and Expansion of Urban Water Supply Systems
Stefano GALELLI[1#+], Xin TIAN[1]
[1]*Singapore University of Technology and Design*

HS10-D2-PM1-P-013
HS10-A002
Spatio-Temporal Distribution of Surface Soil Moisture Derived from Thermal Inertia Using Multi-Satellite Data Over a Semi-Arid Steppe in Central Mongolia
Dai MATSUSHIMA[1#+], Ichirow KAIHOTSU[2], Jun ASANUMA[3]
[1]*Chiba Institute of Technology,* [2]*Hiroshima University,* [3]*University of Tsukuba*

HS10-D2-PM1-P-014
HS10-A003
Cloud Shading Effects on the Atmospheric Boundary Layer on the Tibetan Plateau
Maoshan LI[1#+]
[1]*Chengdu University of Information Technology*

HS11-D2-PM1-P-015
HS11-A004
Hydrological Response Simulation for River Basin Under Climate Change Scenario
Brij Kishor PANDEY[1#+], Deepak KHARE[1]
[1]*Indian Institute of Technology Roorkee*

HS11-D2-PM1-P-016
HS11-A006
Monitoring of Soil Moisture Variation Depending on Rainfall Patterns in a Hill Slope of the Haean Basin in Korea
Jeong Jik KIM[1+], Woo-Hyun JEON[1], Jin-Yong LEE[1#]
[1]*Kangwon National University*

HS11-D2-PM1-P-017
HS11-A007
Quantifying the Effects of Climate Variability and Direct Human Activities on the Change in Mean Annual Runoff for the Bahe River in Northwest China
Shuhong MO[1#+], Zilong LI[1], Jianxia CHANG[1], Yimin WANG[1], Wenyu YANG[2]
[1]*Xi'an University of Technology,* [2]*State Grid Shaanxi Power Company*

HS11-D2-PM1-P-018
HS11-A009
Reducing Model Uncertainty Through a Comprehensive Ranking Approach for Climate Change Impact Assessment in Water Resources
C. T. DHANYA[1#+], Manjula DEVAK[1], Shailesh SINGH[2]
[1]*Indian Institute of Technology Delhi,* [2]*National Institute of Water and Atmospheric Research*

HS11-D2-PM1-P-019
HS11-A012
Impact of Climate and Land Cover Change on the Hydrological Regime of the Wainganga River Basin, Central India
Arun TAXAK[1#+], Dhyan ARYA[1]
[1]*Indian Institute of Technology Roorkee*

HS11-D2-PM1-P-020
HS11-A015
Impact of North Korea's Economic Policy Failures on Hydrological Cycle
Sunguk SONG[1#+], Eunsaem CHO[1], Youngju LEE[1], Chulsang YOO[1]
[1]*Korea University*

HS11-D2-PM1-P-021
HS11-A024
Temporal and Spatial Analysis of Hydrochemical Characteristics in the Whole Basin of the Yalu Tsangpo River
Fengrong ZHANG[1+], Guozhu MAO[1#], Xiang HUANG[2], Yindong TONG[1], Xin TAN[3]
[1]*Tianjin University,* [2]*Tibet University,* [3]*Tianjin University/ Tibet University*

HS11-D2-PM1-P-022
HS11-A027
Groundwater-Level Trends in Edwards Aquifer, Texas: Influence of Precipitation Variability and Water Usage
Nikhil BHATIA[1#], Vivek VERMA[1], Sayantan SAMANTA[1+], Roshan Karan SRIVASTAV[2]
[1]Texas A&M University, [2]VIT University

HS11-D2-PM1-P-023
HS11-A030
Sensitivity Analysis of Swat Model Parameters Using Surrogate Models
Nandhakumar G.[1], Debayan MANDAL[1+], Venkatesh B.[1], Roshan Karan SRIVASTAV[1#]
[1]VIT University

HS12-D2-PM1-P-004
HS12-A002
Application of Water Management Analysis Module for Design of Low Impact Development Practice
Jae Yeol SONG[1], Eun Sung CHUNG[1#+], Shamsuddin SHAHID[2], Kamal AHMED[2]
[1]Seoul National University of Science and Technology, [2]University Technology Malaysia

HS12-D2-PM1-P-005
HS12-A007
An Adaptable Framework to Reduce the Flood Risk Under Climate Change Scenarios – A Case Study in Taipei Basin
Pei-Yu WU[1#+], Kun-Hsiang LIN[1]
[1]National Cheng Kung University

HS13-D2-PM1-P-014
HS13-A005
Intercomparison of Stochastic Weather Generators Using Rainfall Data in Taiwan
Shao Chun TSENG[1#+], Chia-Jeng CHEN[1]
[1]National Chung Hsing University

HS13-D2-PM1-P-015
HS13-A006
Probability Modeling of High Flow Over the Heihe River Basin (China) Using the AM and POT Data
Zhanling LI[1#+], Yuehua WANG[1], Zhanjie LI[2]
[1]China University of Geosciences, [2]Beijing Normal University

HS13-D2-PM1-P-016
HS13-A013
Bayesian Quantile Regression Based Distributional Changes of Annual Extreme Rainfall in Korea
Sumiya URANCHIMEG[1+], Hyun-Han KWON[1#], Min-Ji KIM[1], Hong-Geun CHOI[1]
[1]Chonbuk National University

HS13-D2-PM1-P-017
HS13-A016
An Hourly Extreme Data Estimation Method Developed Using Nonstationary Bayesian Beta Distribution
Yong-Tak KIM[1+], Sumiya URANCHIMEG[1], Hyun-Han KWON[1#], Tae Jeong KIM[1]
[1]Chonbuk National University

HS13-D2-PM1-P-018
HS13-A017
Analysis of Hydrological Extremes on River Discharge in Japan Under Future Climate Condition
Yoshinobu SATO[1#+]
[1]Ehime University

HS13-D2-PM1-P-019
HS13-A019
Transferable Water Based on Multi-Objective Optimal Operation Model
Bai TAO[1#+]
[1]Xi'an University of Technology

HS14-D2-PM1-P-015
HS14-A003
Comparison of Characteristic on Frequent Inland Inundation Areas Among the Three Metropolitan Areas in Japan
Kota NAKAGUCHI[1#+], Daisuke KOMORI[1], So KAZAMA[1]
[1]*Tohoku University*

HS14-D2-PM1-P-016
HS14-A007
Study of the Gap Between the Rainfall Patterns Which Brings Disasters and the Perception of Local Residents
Sakiko TAKAHASHI[1#+], Hyuga HOSHI[1], Kota NAKAGUCHI[2], Daisuke KOMORI[2]
[1]*Miyagi Prefecture Sendai Nika Senior High School,* [2]*Tohoku University*

HS14-D2-PM1-P-017
HS14-A008
Restoration of Salt-Affected Soils Utilizing Halophiles Retained in Rice Bran
Shigetatsu NISHIGAI[1#+], Kiriko YOSHIOKA[2], Chiharu KOMATSU[2]
[1]*Miyagi Prefecture Sendai Nika Senior High School,* [2]*Tohoku University*

HS14-D2-PM1-P-018
HS14-A009
Creating Plans to Improve Safety and Popularity of River
Riku SATO[1#+], So KAZAMA[2]
[1]*Miyagi Prefecture Sendai Nika Junior High School,* [2]*Tohoku University*

HS14-D2-PM1-P-019
HS14-A010
Storm Inundation Simulation for an Urban Small Watershed by the Tokyo Storm Runoff Model
Hideo AMAGUCHI[1#+], Akira KAWAMURA[1]
[1]*Tokyo Metropolitan University*

HS14-D2-PM1-P-020
HS14-A022
A Study on the Influence of Spatiotemporal Resolution of Rainfall on Runoff Simulation in Urban Area
Naoki KOYAMA[1#+]
[1]*Chuo University*

HS14-D2-PM1-P-021
HS14-A026
Assessing Effectiveness of Traditional Ecological Knowledge for Reducing Urban Flood Risks in Hanoi, Vietnam
Ngoc Huan TRAN [1], Tien T.L. DU[2], Hao T. DO[1], T.N. Minh HOANG[1], Nuong Thi BUI[3], Duong Du BUI[4#+]
[1]*Hanoi University of Natural Resources and Environment,* [2]*Danang Institute for Socio-Economic Development,* [3]*Tokyo Metropolitan University,* [4]*National Center for Water Resources Planning and Investigation*

HS15-D2-PM1-P-004
HS15-A002
Integrated Watershed in Han River Vulnerability Using a MCDM Technique with Multiple Weighting Methods
Hyesun PARK[1+], Ho Cheol SEO[1], Jaehyeong LEE[1], Yeonjoo KIM[1#]
[1]*Yonsei University*

HS15-D2-PM1-P-005
HS15-A005
A Comparison of Rainstorm Events Between Historical (1777-1907) and Modern (1961-2010) Data in Seoul, Korea
Changhyun JUN[1#+], Xiaosheng QIN[1]
[1]*Nanyang Technological University*

HS15-D2-PM1-P-006

HS15-A006
Development of Reservoir Operation Rules with Linkages to Drought Mitigation Management on Multi Purpose Dams in Korea
Jinhyeog PARK[1#+], Suhyung JANG[1], Youngteck HUR[1], Jungmin KIM[1], Hyeongung KANG[1]
[1]K-water Institute

HS16-04-D2-PM1-P-010

HS16-04-A003
Simulation of Optimal Runoff Hydrograph Using Ensemble of Radar Rainfall and Blending of Runoffs
Myungjin LEE[1+], Narae KANG[1], Jongsung KIM[1], Soojun KIM[1], Hung Soo KIM[1#]
[1]Inha University

HS16-04-D2-PM1-P-011

HS16-04-A011
Spatio-Temporal Analysis of Standardized Precipitation Index for India Using Gridded Data
Ramasamy THULASIRAM[1+], Roshan Karan SRIVASTAV[1#]
[1]VIT University

HS16-04-D2-PM1-P-012

HS16-04-A016
Analysis of the Storms and Floods Due to Typhoon in the Lai Chi Wo Catchment in Hong Kong, China
Qian XU[1#+], Ji CHEN[1], Mervyn PEART[1]
[1]The University of Hong Kong

HS16-04-D2-PM1-P-013

HS16-04-A017
Relationship Between Sediment Transport and Water Turbidity in Lai Chi Wo River in Hong Kong, China
Yi LU[1#+], Qian XU[1], Ji CHEN[1], Mervyn PEART[1]
[1]The University of Hong Kong

HS16-04-D2-PM1-P-014

HS16-04-A019
Towards Quantitatively Monitoring the Hydrological Droughts Over Tibetan Plateau: Reconstruction of Historical Evapotranspiration at Four Large Basins
Xiuping LI[1#+], Lei WANG[1]
[1]Chinese Academy of Sciences

HS16-04-D2-PM1-P-015

HS16-04-A021
Error Analysis of Precipitation Measurement by Thies Laser Precipitation Monitor
Zhikang FU[1#+], Bin WANG[1]
[1]China Meteorological Administration

HS16-04-D2-PM1-P-016

HS16-04-A026
Rainfall Estimation and Nowcasting Using Composite Weather Radar Data in Thailand
Narongrit LUANGDILOK[1#+], Watin THANATHANPHON[1], Siriluk CHUMCHEAN[2], Piyamarn SISOMPHON[1]
[1]Hydro and Agro Informatics Institute, [2]Mahanakorn University of Technology

HS16-04-D2-PM1-P-017

HS16-04-A027
Evaluation of QPE of Ground-Based Radar Data After Correction With TRMM Precipitation Radar
Liang LENG[1#+], Jing HAN[2]
[1]China Meteorological Administration, [2]Nanjing University of Information Science & Technology

HS16-04-D2-PM1-P-018

HS16-04-A029
A Development of Hierarchical Bayesian Model for Changing Point Analysis of Hydrologic Data at Watershed Scale
Jin-Guk KIM[1#+], Jin-Young KIM[1], Hyun-Han KWON[1]
[1]*Chonbuk National University*

HS17-D2-PM1-P-008

HS17-A002
Seasonal Variation of Thermal Characteristics at Different Depths in a Hyporheic Zone of Korea
Woo-Hyun JEON[1+], Jin-Yong LEE[1#]
[1]*Kangwon National University*

HS17-D2-PM1-P-009

HS17-A006
Assessment of Seasonal Variability of Environmental Flows in Eastern Himalayan Rivers, India
Vinay CHEMBOLU[1#+], Suman Kumar PADHEE[1], Subashisa DUTTA[1]
[1]*Indian Institute of Technology Guwahati*

HS17-D2-PM1-P-010

HS17-A013
Chromium Occurrence and Speciation in River Waters Dissecting Rio Tuba, Palawan
Ruth Esther DELINA[1#+], Roxanne SAMOSA[1], Carmela Alen TUPAZ[1], Carlo ARCILLA[1]
[1]*University of the Philippines Diliman*

HS18-D2-PM1-P-006

HS18-A004
Analysis on Rainfall Kinetic Energy of Various Rainfall Types
Jie-Lun CHIANG[1#+], Guo-Ming CHEN[1]
[1]*National Pingtung University of Science and Technology*

HS19-D2-PM1-P-007

HS19-A003
A Study on Estimation of Regional Scaling of the Parameters an Extreme Value Distribution
Younghun JUNG[1#+], Kyungwon JOO[1], Hanbeen KIM[1], Jun-Haeng HEO[1]
[1]*Yonsei University*

HS19-D2-PM1-P-008

HS19-A007
A Study on the Assessment of Right-Tail Prediction Ability of Extreme Distributions According to Skewness Coefficient and Sample Size
Jinseok JUNG[1+], Hongjoon SHIN[1], Hyunjun AHN[1], Jun-Haeng HEO[1#]
[1]*Yonsei University*

HS19-D2-PM1-P-009

HS19-A011
Analysis of Head Loss Coefficients at Surcharged Four-Way Circular Combining Manhole with Change of Invert Shape
Jun Beom JO[1#+], Jung Soo KIM[2], Sei Eui YOON[1]
[1]*University of Kyonggi,* [2]*University of Bucheon*

HS19-D2-PM1-P-010

HS19-A012
Analysis of Safety Factor Due to the Change of Stream Water Level
Hoo Sang LEE[1#+], Jae Joon LEE[1], Jun-Haeng HEO[2], Sung Ho LEE[1], Shin Tae KIM[1]
[1]*Kumoh National Institute of Technology,* [2]*Yonsei University*

HS19-D2-PM1-P-011

HS19-A013
Selection Criteria of Rational Branch Sewer System for Inundation Analysis with XP-SWMM
Chae Rin KIM[1#+], Jung Soo KIM[2], Sei Eui YOON[1]
[1]*University of Kyonggi,* [2]*University of Bucheon*

HS19-D2-PM1-P-012 HS19-A014
Prediction of Long Term Hydraulic Characteristics from Short Ones for River Management
Kwang Ik SON[1#+], Won Bum KIM[1], Yoo Jung KWON[1]
[1]Yeungnam University

HS19-D2-PM1-P-013 HS19-A017
Sensitivity Analysis of Urban Drainage System and Inundation Area Considering Catchment Subdivision
Beom Jin KIM[1+], Kun-Yeun HAN[1#], Chang Young HA[2], Byunghyun KIM[1], Ho Jun KEUM[1]
[1]Kyungpook National University, [2]Korea Rural Community Corporation

HS19-D2-PM1-P-014 HS19-A018
Application of ASAR Imagery and LiDAR DEM for Improved Flood Prediction and Validation
Byunghyun KIM[1+], Kun-Yeun HAN[1#]
[1]Kyungpook National University

HS19-D2-PM1-P-015 HS19-A019
Multi-Site Calibration for Improving Flood Forecast Accuracy of a Distributed Rainfall-Runoff Model
Gwangseob KIM[1#+], Cho HYUNGON[1], Do YEONSU[1], Myojeong KIM[1]
[1]Kyungpook National University

HS19-D2-PM1-P-016 HS19-A020
Multi-Muskingum Channel Routing for Improving the Large Area Applicability of a Distributed Rainfall-Runoff Model
Do YEONSU[1+], Gwangseob KIM[1#], Cho HYUNGON[1], Myojeong KIM[1]
[1]Kyungpook National University

HS19-D2-PM1-P-017 HS19-A021
Development of a Flood Risk Index Using Multiple Regression Methods
Myojeong KIM[1+], Cho HYUNGON[1], Do YEONSU[1], Gwangseob KIM[1#]
[1]Kyungpook National University

HS19-D2-PM1-P-018 HS19-A022
Analysis of Optimal Flood Defense Measures to the Change of Extreme Rainfall Characteristics
Myojeong KIM[1+], Do YEONSU[1], Cho HYUNGON[1], Gwangseob KIM[1#]
[1]Kyungpook National University

HS19-D2-PM1-P-019 HS19-A023
The Development of a Simple Equation for Calculating Average Velocity Using Flow Rates and River Channel Slopes
Sang Ho KIM[1#+], Shinbum HWANG[1], Taeho JUNG[1], Changhee LEE[2]
[1]Sangji University, [2]Jungwon University

HS19-D2-PM1-P-020 HS19-A026
A Development of Multisite Hourly Rainfall Simulation Technique Based on Neyman-Scott Rectangular Pulse Model
Jang-Gyeong KIM[1#+], Hong-Geun CHOI[1], Hyun-Han KWON[1]
[1]Chonbuk National University

HS20-D2-PM1-P-008
HS20-A004
Hydrological Change and Critical Zone Study in the Haean Basin of Korea
Arim SEO[1+], Jin-Yong LEE[1#], Woo-Hyun JEON[1], Sang Woong YUN[1], Ho Geon LEE[1]
[1]Kangwon National University

HS20-D2-PM1-P-009
HS20-A005
Analysis of Improving Techniques for Water Cycle in the Context of Climate Change in Korea
Cheol Hee JANG[1#+]
[1]Korea Institute of Civil Engineering and Building Technology

HS20-D2-PM1-P-010
HS20-A013
Analysis and Evaluation of Soil Moisture Data Simulated by the VIC Model: Application to the Korean Peninsula
Eunsaem CHO[1#+], Sunguk SONG[1], Jinwook LEE[1], Chulsang YOO[1]
[1]Korea University

HS20-D2-PM1-P-011
HS20-A018
Spatio-Temporal Variation of Change Factors in Precipitation and Temperature Using CMIP5 Data for Indian Subcontinent
Parthiban LOGANATHAN[1+], Roshan Karan SRIVASTAV[1#]
[1]VIT University

HS21-D2-PM1-P-009
HS21-A004
Seasonal Terrestrial Temperature Response to Climate Changes
Liqun SUN[1#+], Ji CHEN[2], Qinglan LI[1]
[1]Chinese Academy of Sciences, [2]The University of Hong Kong

HS21-D2-PM1-P-010
HS21-A005
A Recursive Strategy for Long-Term Prediction of Future Monthly Precipitation in the Three-River Headwaters Region in China
Haiyun SHI[1,2#+], Ji CHEN[1], Tiejian LI[3]
[1]The University of Hong Kong, [2]Qinghai University, [3]Tsinghua University

HS23-D2-PM1-P-013
HS23-A006
The Warming Effects on Carbon and Water Cycle of Alpine Cold Ecosystem, A Case Study in Upper Heihe River Basin, China
Mingyang SHENG[1#+], Dawen YANG[1], Bing GAO[2]
[1]Tsinghua University, [2]China University of Geosciences

HS23-D2-PM1-P-014
HS23-A008
Change in Winter Ichthyoplankton Community Possibly Influenced by the Thermal Front on the Continental Shelf of Southern East China Sea
Yi Chen WANG[1+], Ming-An LEE[1#]
[1]National Taiwan Ocean University

HS23-D2-PM1-P-015
HS23-A019
Fractal Dimension of Watershed Vegetation Pattern and its Effect on Soil and Water Loss on Loess Plateau,china
Shengdong CHENG[1#+], Peng LI[1], Rengui JIANG[1], Tian WANG[1]
[1]Xi'an University of Technology

HS23-D2-PM1-P-016
HS23-A020
Assessment of the Impact of Deforestation in Phnom Kulen Mountains on Siem Reap River Basin, Cambodia
Ai SUGIURA[1#+], Maria INIGUEZ DE HEREDIA[1], Chamroeun SOK[1]
[1]UNESCO

ST Poster Presentations

Tue - 08 Aug, 14:00 - 15:30 | Summit

ST02-D2-PM1-P-015

ST02-A006

Modeling Particle Acceleration and Transport at a 2D CME-Driven Shock

Gang LI[1#+], Junxiang HU[1]

[1]*The University of Alabama in Huntsville*

ST02-D2-PM1-P-016

ST02-A008

Capability of the Accelerated Protons as the Origin of White-Light Flare

Kyoko WATANABE[1#+], Satoshi MASUDA[2]

[1]*National Defense Academy of Japan,* [2]*Nagoya University*

ST02-D2-PM1-P-017

ST02-A010

Discrete Energetic (~50-200 KeV) Electron Events in the High-Altitude Cusp/Polar Cap/Lobe

Linghua WANG[1,2#+], Qiugang ZONG[1], Quan-Qi SHI[3], Yongfu WANG[1], Jiansen HE[1], Chuanyi TU[1], Hui TIAN[1], Robert WIMMER-SCHWEINGRUBER[4]

[1]*Peking University,* [2]*University of California, Berkeley,* [3]*Shandong University,* [4]*University of Kiel*

ST02-D2-PM1-P-018

ST02-A014

Statistical Studies of Superthermal (~0.5 -100 keV) Electrons Near the ICME-Driven Shocks at 1 AU

Liu YANG[1], Linghua WANG[1,2#+], Gang LI[3], Robert WIMMER-SCHWEINGRUBER[4], Jiansen HE[1], Chuanyi TU[1], Jiawei TAO[1]

[1]*Peking University,* [2]*University of California, Berkeley,* [3]*The University of Alabama in Huntsville,* [4]*University of Kiel*

ST02-D2-PM1-P-019

ST02-A019

Quiet-Time Suprathermal (~0.1-1.5 keV) Electrons in the Solar Wind

Jiawei TAO[1#+], Linghua WANG[1,2], Qiugang ZONG[1], Gang LI[3], Chadi SALEM[2], Robert WIMMER-SCHWEINGRUBER[4], Jiansen HE[1], Chuanyi TU[1], Stuart BALE[2]

[1]*Peking University,* [2]*University of California, Berkeley,* [3]*The University of Alabama in Huntsville,* [4]*University of Kiel*

ST02-D2-PM1-P-020

ST02-A020

Effects of Relative Core-Halo Drift Velocity on the Strahl Formation in the Solar Wind Electron Velocity Distribution Functions

Jungjoon SEOUGH[1#+]

[1]*Korea Astronomy and Space Science Institute*

ST04-13-21-D2-PM1-P-012

ST04-13-21-A003

Statistical Study of Ion Heating at the Quasi-Perpendicular Bow Shock with Respect to the Upstream Solar Wind Conditions

Hee-Eun KIM[1+], Ensang LEE[1#], George PARKS[2], Naiguo LIN[2], Khan-Hyuk KIM[1], Dong-Hun LEE[1]

[1]*Kyung Hee University,* [2]*University of California, Berkeley*

ST04-13-21-D2-PM1-P-013

ST04-13-21-A004

Impact of the Variation of Solar Wind Mach Number on the Formation of High Speed Jets in the Downstream Region of Quasi-Parallel Shock

Bertrand LEMBEGE[1#+], Petr HELLINGER[2]

[1]*National Centre for Scientific Research,* [2]*Astronomical Institute and Institute of Atmospherics Physics*

ST04-13-21-D2-PM1-P-014	ST04-13-21-A011 Global Structure of Magnetosphere in Northward Interplanetary Magnetic Field: Magnetic Reconnection, Kelvin-Helmholtz Vortices, Karman Vortex Street, Vortex Breakdown, Coherency Dongsheng CAI[1#+], Bertrand LEMBEGE[2], Ken-Ichi NISHIKAWA[3] *[1]University of Tsukuba, [2]National Centre for Scientific Research, [3]National Space Science and Technology Center*
ST04-13-21-D2-PM1-P-015	ST04-13-21-A015 Development of High Resolution Jovian Magnetospheric Simulation Keiichiro FUKAZAWA[1#+], Yuto KATOH[2] *[1]Kyoto University, [2]Tohoku University*
ST05-15-D2-PM1-P-011	ST05-15-A009 Global Lightning Generated Whistlers and the Effects on Ionosphere and Magnetosphere Robert HOLZWORTH[1#+], Hao ZHENG[1], James BRUNDELL[2], Michael MCCARTHY[1], Abram JACOBSON[1], George HOSPODARSKY[3] *[1]University of Washington, [2]UltraMSK, [3]The University of Iowa*
ST05-15-D2-PM1-P-012	ST05-15-A011 Electron Dropout Echoes Induced by Interplanetary Shock: A Statistical Study Qiugang ZONG[1#+] *[1]Peking University*
ST05-15-D2-PM1-P-013	ST05-15-A012 The Roles of Ionospheric Conductance in Magnetospheric Dynamics Mei-Ching FOK[1#+], Natalia BUZULUKOVA[1,2], Alex GLOCER[1], Suk-Bin KANG[1] *[1]NASA Goddard Space Flight Center, [2]University of Maryland*
ST05-15-D2-PM1-P-014 Invited	ST05-15-A015 Variation of Plasmapause Location During Magnetic Storms Wenlong LIU[1#+] *[1]Beihang University*
ST05-15-D2-PM1-P-015	ST05-15-A016 Charged Particle Behavior in the Localized Ultralow Frequency Waves:Theory and Observation Li LI[1+], Xuzhi ZHOU[1#], Qiugang ZONG[1], Hong ZOU[1], Ying LIU[1], Xingran CHEN[1], Yixin HAO[1] *[1]Peking University*
ST06-D2-PM1-P-009	ST06-A005 Direct Observations of Magnetic Flux Rope Formation During a Solar Coronal Mass Ejection Hongqiang SONG[1#+], Yao CHEN[1] *[1]Shandong University*
ST06-D2-PM1-P-010	ST06-A014 Microwave Imaging of a Hot Flux Rope Structure During the Pre-Impulsive Stage of an Eruptive M7.7 Solar Flare Yao CHEN[1#], Zhao WU[1+] *[1]Shandong University*
ST07-D2-PM1-P-009	ST07-A008 Dissipative Instability in Partially Ionised Compressible Prominence Plasma James MATHER[1#+] *[1]University of Sheffield*

ST08-D2-PM1-P-009 ST08-A001
A Scheme for Forecasting Severe Space Weather
Nanan BALAN[1#+]
[1]*Nagoya University*

ST08-D2-PM1-P-010 ST08-A009
Efficacy of Co-Seismic Ionospheric Perturbations in Indentifying Crustal Deformation Pattern: Case Study Based on Mw 7.3 May Nepal 2015 Earthquake
Mala BAGIYA[1#+], Sunil A. S.[1], P.S. SUNIL[1], Sreejith K. M.[2], Lucie ROLLAND[3], D.S. RAMESH[1]
[1]*Indian Institute of Geomagnetism,* [2]*Space Application Centre (ISRO),* [3]*Université Côte d'Azur*

ST08-D2-PM1-P-011 ST08-A010
Ionosphere Data Assimilation Modeling of 2015 St. Patrick's Day Geomagnetic Storm
Charles LIN[1#+], Chia-Hung CHEN[1], Tomoko MATSUO[2]
[1]*National Cheng Kung University,* [2]*University of Colorado Boulder*

ST08-D2-PM1-P-012 ST08-A013
Ionospheric Disturbances Associated with Strong Earthquakes
Sergey PULINETS[1], Jann-Yenq (Tiger) LIU[2#+], Dmitry DAVIDENKO[1]
[1]*Russian Academy of Sciences,* [2]*National Central University*

ST09-D2-PM1-P-013 ST09-A005
The Structures of Magnetic Islands Formed During Collisionless Magnetic Reconnections in a Force Free Current Sheet
Feibin FAN[1#+], Can HUANG[1], Quanming LU[1], Jinlin XIE[1]
[1]*University of Science and Technology of China*

ST09-D2-PM1-P-014 ST09-A007
Electron Acceleration in a Secondary Magnetic Island Formed During Magnetic Reconnection with a Guide Field
Huanyu WANG[1#+], Quanming LU[1], Can HUANG[1], Jianhua WANG[1]
[1]*University of Science and Technology of China*

ST09-D2-PM1-P-015 ST09-A010
Magnetospheric Multiscale Observations of the Hall System in the Exhaust of Asymmetric Magnetic Reconnection
Yong Cun ZHANG[1#+], Benoit LAVRAUD[2], Lei DAI[1], Chi WANG[1], Aurelie MARCHAUDON[2]
[1]*Chinese Academy of Sciences,* [2]*National Centre for Scientific Research*

ST09-D2-PM1-P-016 ST09-A015
Multiple Flow Channels as Evidence of Three-Dimensional Reconnection
Yin XU[1+], Huishan FU[1#], Chengming LIU[1]
[1]*Beihang University*

ST09-D2-PM1-P-017	ST09-A016 Structure and Evolution of Flux Transfer Events Near Magnetic Reconnection Dissipation Region Xiangcheng DONG[1+], Malcolm DUNLOP[2#], Karlheinz TRATTNER[3], Tai PHAN[4], Huishan FU[1], Jinbin CAO[1], Chris RUSSELL[5], Barbara GILES[6], Roy B. TORBERT[7], Guan LE[6], James BURCH[8] *[1]Beihang University, [2]Rutherford Appleton Laboratory, [3]University of Colorado Boulder, [4]University of California, Berkeley, [5]University of California, Los Angeles, [6]NASA Goddard Space Flight Center, [7]University of New Hampshire, [8]Southwest Research Institute*
ST09-D2-PM1-P-018	ST09-A017 Proton and Electron Kinetics in and Out of Solar Wind Magnetic Reconnection Exhaust Region Jiansen HE[1#+] *[1]Peking University*
ST09-D2-PM1-P-019	ST09-A021 Mass and Energy Supply of a Cool Coronal Loop Limei YAN[1+], Hardi PETER[2], Jiansen HE[3#], Lidong XIA[4], Linghua WANG[3,5], Yong WEI[1] *[1]Chinese Academy of Sciences, [2]Max-Planck Institute for Solar System Research, [3]Peking University, [4]Shandong University, [5]University of California, Berkeley*
ST10-03-17-19-D2-PM1-P-013	ST10-03-17-19-A004 Advances in Multi-Spacecraft Analysis for Estimating Gradients Gerard CHANTEUR[1,2#+] *[1]Ecole Polytechnique, [2]National Center for Scientific Research*
ST10-03-17-19-D2-PM1-P-014	ST10-03-17-19-A005 An Improvement Technique of the Signal-To-Noise Ratio for Ground-Based VLF Observation by Audio Signal Processing Takumi DEJIMA[1#+], Mitsunori OZAKI[1], Satoshi YAGITANI[1], Kazuo SHIOKAWA[2], Yoshizumi MIYOSHI[2], Martin CONNORS[3] *[1]Kanazawa University, [2]Nagoya University, [3]Athabasca University*
ST10-03-17-19-D2-PM1-P-015	ST10-03-17-19-A008 Polar Cap Ionospheric Outflow Response to the Solar Wind Energy Input Kun LI[1#+] *[1]Institute of Geology and Geophysics, Chinese Academy of Sciences*
ST10-03-17-19-D2-PM1-P-016	ST10-03-17-19-A009 Multi-Instrument Observations of Periodic Poleward Moving Polar Cap Arcs Zanyang XING[1#+], Qinghe ZHANG[1], Desheng HAN[2], Yongliang ZHANG[3], Jun LIANG[4], Jøran Idar MOEN[5], Zejun HU[2], P. T. JAYACHANDRAN[6], Natsuo SATO[7], Shunrong ZHANG[8], Keisuke HOSOKAWA[9], Yong WANG[1], Yu-Zhang MA[1] *[1]Shandong University, [2]Polar Research Institute of China, [3]Johns Hopkins University, [4]University of Calgary, [5]University of Olso, [6]University of New Brunswick, [7]National Institute of Polar Research, [8]Massachusetts Institute of Technology, [9]University of Electro-Communications*

ST10-03-17-19-D2-PM1-P-017

ST10-03-17-19-A017

Two Fundamental Mechanisms in Generating Magnetic Dipolarization in Saturn's Magnetosphere: In-situ Evidence from Cassini

Z. H. YAO[1#+], Denis GRODENT[1], Licia RAY[2], Jonathan RAE[3], Andrew COATES[3], Zuyin PU[4], Anthony LUI[5], Aikaterini RADIOTI[1], J. Hunter WAITE, JR.[6], Geraint JONES[3], Ruilong GUO[7], William DUNN[3]

[1]University of Liege, [2]Lancaster University, [3]University College London, [4]Peking University, [5]Johns Hopkins University, [6]Southwest Research Institute, [7]Chinese Academy of Sciences

ST12-D2-PM1-P-015

ST12-A002

Decay of Nonlinear Whistler Waves: 1D versus 2D

Takayuki UMEDA[1#+], Shinji SAITO[1], Yasuhiro NARIYUKI[2]

[1]Nagoya University, [2]University of Toyama

ST12-D2-PM1-P-016

ST12-A005

Fast Sausage Modes in Transversely Continuous Coronal Tubes and Their Seismological Applications

Bo LI[1#+], Shao-Xia CHEN[1], Hui YU[1], Mingzhe GUO[1], Ming XIONG[2]

[1]Shandong University, [2]Center for Space Science and Applied Research

ST12-D2-PM1-P-017

ST12-A016

Resonant Mode Conversion of Alfven Waves with Finite Frequency Effect in Two-Temperature Plasmas

Liang XIANG[1#+], De-Jin WU[1]

[1]Chinese Academy of Sciences

ST12-D2-PM1-P-018

ST12-A017

Electron Cyclotron Maser Emissions from Evolving Fast Electron Beams

Jianfei TANG[1#+]

[1]Xinjiang Astronomical Observatory,CAS

ST12-D2-PM1-P-019

ST12-A020

Comparison of Conditional Probability Distribution Functions for "Energy Transfer Rate" and Temperature at the Same Fluctuation Level

Jiansen HE[1#+], Ying WANG[1], Zhongtian PEI[1], Lei ZHANG[2], Chuanyi TU[1], Linghua WANG[1,3], Hui TIAN[1]

[1]Peking University, [2]Chinese Academy of Sciences, [3]University of California, Berkeley

ST12-D2-PM1-P-020

ST12-A021

The Evolution of Magnetic Turbulence as Carried/Induced by a Coronal Mass Ejection During its Journey in the Heliosphere

Limei YAN[1#+], Yong WEI[1], Jiansen HE[2], Zhaojin RONG[1], Lihui CHAI[1], Jun ZHONG[1], Weixing WAN[1]

[1]Chinese Academy of Sciences, [2]Peking University

ST12-D2-PM1-P-021

ST12-A023

Walen Slope and Amplitude Ratio of Inward to Outward Alfven Waves in the Solar Wind

De-Jin WU[1#+], Lei YANG[1]

[1]Chinese Academy of Sciences

ST12-D2-PM1-P-022

ST12-A025

PIC Simulation of Heat Flux Instability with a Large Relative Drift Between Core and Halo Electrons

Sang-Yun LEE[1#+], Ensang LEE[1], Peter H. YOON[2]

[1]Kyung Hee University, [2]University of Maryland

ST12-D2-PM1-P-023

ST12-A028

Angular Independence of Break Position for Magnetic Power Spectra Density in High-Speed Solar Wind Turbulence

Die DUAN[1#+], Jiansen HE[1], Zhongtian PEI[1], Shiyong HUANG[2], Christopher CHEN[3], Linghua WANG[1,4], Hui TIAN[1], Chuanyi TU[1]

[1]Peking University, [2]Wuhan University, [3]Imperial College London, [4]University of California, Berkeley

ST14-20-24-D2-PM1-P-006

ST14-20-24-A020

ASHI: An all Sky Heliospheric Imager for Viewing Thomson-Scattered Light

Bernard JACKSON[1#+], Andrew BUFFINGTON[1], Hsiu-Shan YU[1], Paul HICK[1], Mario BISI[2]

[1]University of California, San Diego, [2]Science & Technology Facilities Council

ST14-20-24-D2-PM1-P-007

ST14-20-24-A024

A 3D-MHD Model Interface Using Interplanetary Scintillation (IPS) Observations

Bernard JACKSON[1#+], Hsiu-Shan YU[1], Paul HICK[1], Andrew BUFFINGTON[1], Munetoshi TOKUMARU[2], Dusan ODSTRCIL[3], Tae KIM[4], Nikolai POGORELOV[4], Mario BISI[5], Jaehun KIM[6], Jongyeon YUN[7]

[1]University of California, San Diego, [2]Nagoya University, [3]NASA Goddard Space Flight Center, [4]The University of Alabama in Huntsville, [5]Science & Technology Facilities Council, [6]Korean Space Weather Center, [7]Space Environment Laboratory

ST14-20-24-D2-PM1-P-008

ST14-20-24-A025

Characteristics of the Ionospheric Mid-Latitude Trough Measured by Topside Sounders in 1960-70s

Junseok HONG[1#+], Yongha KIM[1]

[1]Chungnam National University

ST14-20-24-D2-PM1-P-009

ST14-20-24-A027

The Worldwide Interplanetary Scintillation (IPS) Stations (WIPSS) Network October 2016 Campaign: LOFAR IPS Data Analyses

Mario BISI[1#+], Richard FALLOWS[2], Bernard JACKSON[3], Munetoshi TOKUMARU[4], Hsiu-Shan YU[3], John MORGAN[5], David BARNES[1]

[1]Science & Technology Facilities Council, [2]The Netherlands Institute for Radio Astronomy, [3]University of California, San Diego, [4]Nagoya University, [5]Curtin University

ST14-20-24-D2-PM1-P-010

ST14-20-24-A028

The EU HELCATS Project, WP7, Task 7.1: Combining Observations of Interplanetary Scintillation (IPS) and Heliospheric Visible-Light Imaging of CMEs and SIRs

Mario BISI[1#+], David BARNES[1], Jonathan EASTWOOD[2], Vratislav KRUPAR[3], Jasmina MAGDALENIC ZHUKOV[4], Richard FALLOWS[5], Richard HARRISON[1], Jackie DAVIES[1]

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ST14-20-24-D2-PM1-P-011

ST14-20-24-A029

Temporal Variation of Zebra Stripes in Type IV Solar Radio Bursts

Kazutaka KANEDA[1#+], Hiroaki MISAWA[1], Kazumasa IWAI[2], Satoshi MASUDA[3], Fuminori TSUCHIYA[1], Takahiro OBARA[1], Yuto KATOH[1]

[1]Tohoku University, [2]National Institute of Information and Communications Technology, [3]Nagoya University

ST16-D2-PM1-P-012
ST16-A005
Correlation of Magnetic Fields with Solar Wind Plasma Parameters at 1AU
Fang SHEN[1#+], Zicai YANG[1], Jie ZHANG[2], Yi YANG[1], Xueshang FENG[1], Ian G. RICHARDSON[3]
[1]Chinese Academy of Sciences, [2]George Mason University, [3]University of Maryland

ST16-D2-PM1-P-013
ST16-A006
Stastical Comparison of the Geoeffectiveness of Different Types ICMEs from 1995 to 2014
Chenglong SHEN[1#+], Yutian CHI[1], Yuming WANG[1], Mengjiao XU[1]
[1]University of Science and Technology of China

ST16-D2-PM1-P-014
ST16-A015
Investigation of Interplanetary Shocks Structure with Plasma Spectrometer BMSW Onboard the SPEKTR-R
Natalia BORODKOVA[1#+], Victor ESELEVICH[1], Georgy ZASTENKER[1], Olga SAPUNOVA[1], Yuri YERMOLAEV[1]
[1]Russian Academy of Sciences

ST18-D2-PM1-P-013
ST18-A003
ULF Wave Modulation on the Generation Process of Whistler-Mode Chorus Emissions
Yuto KATOH[1#+], Lunjin CHEN[2]
[1]Tohoku University, [2]University of Texas at Dallas

ST18-D2-PM1-P-014
ST18-A004
Nonlinear Dynamics of Electrons Interacting with Oblique Whistler Mode Chorus in the Magnetosphere
Yikai HSIEH[1#+], Yoshiharu OMURA[1]
[1]Kyoto University

ST18-D2-PM1-P-015
ST18-A015
A 3D Layer Method Modeling of Radiation Belt Diffusion Processes
Xin TAO[1#+], Chenyu WANG[1]
[1]University of Science and Technology of China

ST18-D2-PM1-P-016
ST18-A016
Software-Type Wave-Particle Interaction Analyzer on Board the Arase Satellite
Mitsuru HIKISHIMA[1#+], Hirotsugu KOJIMA[2], Yuto KATOH[3], Takeshi TAKASHIMA[1], Kazushi ASAMURA[1], Yoshizumi MIYOSHI[4], Yoshiya KASAHARA[5], Satoshi KASAHARA[6], Takefumi MITANI[1], Nana HIGASHIO[1], Ayako MATSUOKA[1], Iku SHINOHARA[1]
[1]Japan Aerospace Exploration Agency, [2]Kyoto University, [3]Tohoku University, [4]Nagoya University, [5]Kanazawa University, [6]The University of Tokyo

ST22-D2-PM1-P-009
ST22-A002
Space Science Payloads on Board NGSS-1
Kyoung Wook MIN[1#+]
[1]Korea Advanced Institute of Science and Technology

ST22-D2-PM1-P-010	ST22-A012 Role of Equatorial Anomaly in Identifying an Impending Earthquake and System Dynamics Study Over West Pacific and South East Asia Devi MINAKSHI[1#+], Samiran PATGIRI[1], Ananda BARBARA[1], Koichiro OYAMA[2,3], Kwangsun RYU[4], Tetsuya KODAMA[5] *[1]Gauhati University, [2]National Cheng Kung University, [3]Asia Space Environment Research Consortium, [4]Korea Advanced Institute of Science and Technology, [5]Japan Aerospace Exploration Agency*
ST22-D2-PM1-P-011	ST22-A014 Planetary Boundary Layer Height Detection Using COSMIC Satellites Bo HAN[1#+], Erry GUNAWAN[1] *[1]Nanyang Technological University*
ST22-D2-PM1-P-012	ST22-A017 Observations of Ionospheric Irregularities by the Korean Snipe Mission Jaeheung PARK[1#], Jaejin LEE[1+], Young-Sil KWAK[1] *[1]Korea Astronomy and Space Science Institute*
ST25-D2-PM1-P-007	ST25-A002 Evaluating the Mechanism for the Substorm Current Circuits with Magnetosphere-Ionosphere System Anthony LUI[1#+] *[1]Johns Hopkins University*
ST25-D2-PM1-P-008	ST25-A003 GPS Phase Fluctuate Associated with High Speed Flows in the Cusp Ionosphere Yong WANG[1#+], Qinghe ZHANG[1], P. T. JAYACHANDRAN[2], Richard CHADWICK[2], Jøran Idar MOEN[3], J. M. RUOHONIEMI[4], Zanyang XING[1], Yuzhang MA[1], Mark LESTER[5] *[1]Shandong University, [2]University of New Brunswick, [3]University of Olso, [4]Virginia Tech., [5]University of Leicester*
ST25-D2-PM1-P-009	ST25-A006 Effects of Solar Wind Dynamic Pressure Enhancements on the Coupled Magnetosphere-Ionosphere System During the March 17, 2015 Event: Observations and Global MHD Simulation Doga OZTURK[1], Shasha ZOU[1#+], James SLAVIN[1] *[1]University of Michigan*
ST25-D2-PM1-P-010	ST25-A010 On the Self-Consistent Electric Field Newly Developed in the Ram-SCB-E Model: Effects of Electric Fields on the Mid-Latitude Ionosphere and Inner Magnetosphere Dynamics Yiqun YU[1#+], Vania JORDANOVA[2], Aaron RIDLEY[3], Gabor TOTH[3], Roderick HEELIS[4] *[1]Beihang University, [2]Los Alamos National Laboratory, [3]University of Michigan, [4]Uinversity Texas at Dallas*
ST26-27-D2-PM1-P-008	ST26-27-A009 Global Distribution of Summer NmF2 Dusk-to-Nighttime Enhancement at Solar Minimum Yiding CHEN[1#+], Libo LIU[2], Huijun LE[2], Weixing WAN[2] *[1]Institute of Geology and Geophysics, Chinese Academy of Sciences, [2]Chinese Academy of Sciences*

ST26-27-D2-PM1-P-009 ST26-27-A011
Electrodynamics of an Auroral Streamer Followed by a Substorm Expansion
Kan LIOU[1#+], Thomas SOTIRELIS[1]
[1]*Johns Hopkins University Applied Physics Laboratory*

ST26-27-D2-PM1-P-010 ST26-27-A014
Global Synoptic Climatology of Low Latitude F-Region Irregularity Using Formosat-3/COSMIC GPS Radio Occultation Data
Ankur KEPKAR[1#+], Christina ARRAS[2], Jens WICKERT[2]
[1]*Technical University of Berlin,* [2]*GFZ Potsdam*

ST26-27-D2-PM1-P-011 ST26-27-A016
Sporadic E Layer as a Wind Profiler in the Mid-Latitude Ionosphere
Eun-Byeol JO[1#+], Yongha KIM[1]
[1]*Chungnam National University*

Presentations
09 Aug, 2017 Wednesday

Day 3 - 09 Aug 2017, Wednesday
Program Overview

09 Aug 2017, Wednesday					
Time / Room	**AM1**	**AM2**	**Lunch**	**PM1**	**PM2**
	08:30 - 10:30	**11:00 - 12:30**	**12:30 - 14:00**	**14:00 - 15:30**	**16:00 - 18:00**
MR308	ST06 (p198)	ST05-15 (p197)		ST05-15 (p198)	ST08 (p200)
MR309	ST07 (p199)	ST26-27 (p202)		ST26-27 (p203)	ST22 (p201)
MR310	PS07 (p194)	PS04 (p193)		PS04 (p193)	PS07 (p195)
MR311	SE25 (p208)	SE21 (p206)		SE20 (p205)	SE25 (p209)
MR327	SE09 (p204)	SE22 (p207)		SE22 (p208)	SE14 (p205)
MR328	OS18 (p190)	OS02 (p186)		OS02 (p186)	OS02 (p187)
MR329	OS08 (p188)	OS22 (p191)		OS22 (p192)	OS08 (p189)
MR330	HS23 (p176)	HS23 (p177)		HS19 (p176)	HS08 (p173)
MR331	AS10 (p168)	AS DL (p6)	AS Meeting	SS06 (p211)	Public Lecture 1 (p25)
MR332	IG21 (p182)	IG11 (p179)		IG11 (p179)	IG26 (p184)
MR333	IG19 (p181)	IG24 (p183)		IG12 (p180)	IG27 (p185)
MR334	HS06 (p172)	HS10 (p174)		HS10 (p175)	HS09 (p173)
MR335	BG03 (p170)	BG DL (p8)	BG Meeting	BG08 (p171)	Workshop 1 (p33)
Summit				AS Posters (p212) BG Posters (p240)	

Sessions & Conveners
* Main Convener

AS10 **The Science and Prediction of Tropical Cyclones**
*Chun-Chieh WU *National Taiwan University*, Zhuo WANG *University of Illinois at Urbana-Champaign*, Yuqing WANG *University of Hawaii at Manoa*, Jeff KEPERT *Centre for Australian Weather and Climate Research*, Kosuke ITO *University of the Ryukyus*

BG03 **Biogeochemical Cycling of Carbon and Nitrogen in Freshwater and Marine Ecosystems**
*Punyasloke BHADURY *Indian Institute of Science Education and Research, Kolkata*, Ajcharaporn PIUMSOMBOON *Chulalongkorn University*

BG08 **Ghg Budgets (co2, Ch4, N2o) of Asia-oceanian Terrestrial Ecosystem - Responses to Climate Change and Disturbances**
*Naishen LIANG *National Institute for Environmental Studies*, Yingping WANG *Commonwealth Scientific and Industrial Research Organisation*, Derrick LAI *The Chinese University of Hong Kong*

HS06 **Hydroinformatics**
*Dawei HAN *University of Bristol*, Jeanne Jinhui HUANG *Nankai University*, Ben JARIHANI *University of the Sunshine Coast*

HS08 **Hydrological Processes in Agricultural Lands**
*Jun NIU *China Agricultural University*, Ji CHEN *The University of Hong Kong*, Yiping WU *Xi'an Jiaotong University*, Bellie SIVAKUMAR *University of New South Wales*

HS09 **Advances in Optimisation and Control of Water Resources Systems**
*Stefano GALELLI *Singapore University of Technology and Design*, Christine Ann SHOEMAKER *National University of Singapore*

HS10 **Water Cycle Satellite Remote Sensing Data Products and Their Applications**
*Xiwu ZHAN *National Oceanic and Atmospheric Administration*, Jeffrey WALKER *Monash University*, Jun WEN *Chinese Academy of Sciences*, Christopher HAIN *University of Maryland College Park*

HS19 **Hydrologic Prediction and Measures Considering Extreme Climate Conditions**
*Kun-Yeun HAN *Kyungpook National University*, Jun-Haeng HEO *Yonsei University*, Jaeeung YI *Ajou University*

HS23 **Ecohydrology**
*Dawen YANG *Tsinghua University*, Huade GUAN *Flinders University*, Bellie SIVAKUMAR *University of New South Wales*, Ji CHEN *The University of Hong Kong*

IG11 **Hydroclimate Variation in the Tropical Indo-pacific Since the Late Pleistocene**
*Hong-Wei CHIANG *National Taiwan University*, Liangcheng TAN *Chinese Academy of Sciences*, Xianfeng WANG *Nanyang Technological University*

IG12 **Geoscience Education**
*Hoe Teck TAN *School of Science and Technology*, Koichiro OYAMA *National Cheng Kung University*, I-Te LEE *Central Weather Bureau*

IG19 **Landslide Identification, Prediction, and Monitoring Using Multi-disciplinary Technologies**
*Chih-Chung CHUNG *National Central University*, Wen-Chao HUANG *National Central University*, wei HU *Chengdu University of Technology*, Thi To Ngan NGUYEN *University of Science*, Yu-Feng WANG *National Central University*

IG21 **Carbon Dioxide Capture and Storage (CCS) in Asia & Oceania Regions**
*Qi LI *Chinese Academy of Sciences*, Masao SORAI *National Institute of Advanced Industrial Science and Technology*, Andrew FEITZ *Geoscience Australia*, Cheon DAE-SUNG *Korea Institute of Geoscience and Mineral Resources*

IG24 **Geophysical and Geological Evidences of Submarine Landslides**
*Chih-Chieh SU *National Taiwan University*, Jing-Yi LIN *National Central University*, Leo ARMADA *University of the Philippines*

IG26 **Interdisciplinary Research on Tropical Cyclone Induced Coastal Flooding: from Modeling Perspective**
*Philip Li-Fan LIU *National University of Singapore*, Linlin LI *Nanyang Technological University*, Xiping YU *Tsinghua University*, Shinji SATO *The University of Tokyo*, Mahar LAGMAY *University of the Philippines Diliman*

IG27 **Insights of Landslide Process, from Field Observation, Physical Modelling and Numerical Simulation**
*Wen-Yi HUNG *National Central University*, Koji ICHII *Kansai University*, Idrus Muhammad ALATAS *National Institute of Science and Technology*, *Indonesian Society for Geotechnical Engineering (ISGE/HATTI)*, Pintor T. SIMATUPANG *Universitas Mercu Buana*, Sugeng KRISNANTO *Bandung Institute of Technology (ITB)*, *Indonesian Society for Geotechnical Engineering (ISGE/HATTI)*

OS02 **Regional Oceanic Numerical Modeling and Observations**
*Changming DONG *Nanjing University of Information Science & Technology*, Leo OEY *National Central University*, Yusuke UCHIYAMA *Kobe University*, Jae Hak LEE *Korea Institute of Ocean Science and Technology*, Hui WU *East China Normal University*

OS08 **Future Coastal Oceans Under Climatic and Anthropogenic Scenarios**
*Daidu FAN *Tongji University*, Jingping XU *Ocean University of China*, Jingpu (Paul) LIU *North Carolina State University*, Xiao Hua WANG *University of New South Wales*, Ping YIN *Qingdao Institute of Marine Geology*

OS18 **Advances in Oceanic Data Assimilation Methodologies, Forecasting and Reanalysis**
*Zhijin LI *Jet Propulsion Laboratory*, *California Institute of Technology*, Youmin TANG *University of Northern British Columbia*, Shiqiu PENG *Chinese Academy of Sciences*, Fei ZHENG *Chinese Academy of Sciences*, Yasumasa MIYAZAWA *Japan Agency for Marine-Earth Science and Technology*

OS22 **Sea-level Changes from Minutes to Millennia**
*Adam SWITZER *Nanyang Technological University*, Charles LEMCKERT *University of Canberra*, Simon ENGELHART *University of Rhode Island*, Noelynna RAMOS *University of the Philippines Diliman*

PS04 **Microwave and Infrared Remote Sensing of Solar System Objects**
*Paul HARTOGH *Max Planck Institute for Solar System Research*, Yasuko KASAI *National Institute of Information and Communications Technology*, Scott BOLTON *Southwest Research Institute*, Yi-Jehng KUAN *National Taiwan Normal University*

PS07 **Outer Planetes and Their Satellites**
*Wing-Huen IP *National Central University*, Jun KIMURA *Osaka University*, Sushil ATREYA *University of Michigan*, Athena COUSTENIS *Paris Observatory*, Xianzhe JIA *University of Michigan*

ST05-15 **New and Recent Results on Radiation Belt and Inner Magnetosphere Physics**
*Craig KLETZING *The University of Iowa*, Allison JAYNES *University of Colorado Boulder*, Qiugang ZONG *Peking University*, Mei-Ching FOK *NASA Goddard Space Flight Center*, Yoshi MIYOSHI *Nagoya University*

ST06 **Origin, Eruption, Propagation and Space Weather Effect of Magnetic Flux Ropes**
*Hongqiang SONG *Shandong University*, Chenglong SHEN *University of Science and Technology of China*, Xin CHENG *Nanjing University*, Qiang HU *The University of Alabama in Huntsville*

ST07 **The Wave Coupling Between the Lower Solar Atmosphere and Corona: MHD Approach**
*Viktor FEDUN *The University of Sheffield*, Gary VERTH *The University of Sheffield*, Marcel GOOSSENS *KU Leuven*, Sergiy SHELYAG *University of Northumbria*

ST08 **Sun-earth System Response to Extreme Solar and Seismic Events**
*Nanan BALAN *Nagoya University*, Jann-Yenq (Tiger) LIU *National Central University*, Nat GOPALSWAMY *NASA Goddard Space Flight Center*, Yoshiharu OMURA *Kyoto University*, Zuo XIAO *Peking University*

ST22 **Use of Nano/microsatellites for Solar-terrestrial Studies**
*Kyoung Wook MIN *Korea Advanced Institute of Science and Technology*, Koichiro OYAMA *National Cheng Kung University*, Alfred CHEN *National Cheng Kung University*, Devi MINAKSHI *Gauhati University*, Andrew YAU *University of Calgary*

ST26-27 **General Session for Upper Atmosphere and Ionosphere**
*Zahra BOUYA *Space Weather Services - The Australian Bureau of Meteorology*, Mario BISI *Science & Technology Facilities Council*

SE09 **Earth Rotation and Reference Frame**
*Jianli CHEN *University of Texas at Austin*, Richard GROSS *NASA's Jet Propulsion Laboratory*, Olivier DE VIRON *La Rochelle University*, Haoming YAN *Institute of Geodesy and Geophysics, Chinese Academy of Sciences*

SE14 **Geophysical Investigations in Geotechnical Engineering**
*Mukat SHARMA *Indian Institute of Technology Roorkee*, Ku TAESEO *National University of Singapore*

SE20 **Tephrochronology and Lake Studies of Environmental Change**
*Caroline BOUVET DE MAISONNEUVE *Nanyang Technological University*, Christos GOURAMANIS *National University of Singapore*, Sean PYNE-O'DONNELL *Nanyang Technological University*

SE21 **Fault Ruptures, Active Tectonics and Seismic Hazard of Southeast and East Asia**
*Yu WANG *Nanyang Technological University*, J. Bruce H. SHYU *National Taiwan University*, Myo THANT *Monywa University*, Chung-Han CHAN *Nanyang Technological University*, Noelynna RAMOS *University of the Philippines Diliman*

SE22 **Biotic Evolution During India's Norhward Drift from Gondwana to Asia**
*Sunil BAJPAI *Birbal Sahni Institute of Palaeosciences*, Sankar CHATTERJEE *Texas Tech University*, Ashu KHOSLA *Panjab University*

SE25 **General Solid Earth Section**

*Hai Thanh TRAN *Hanoi University of Mining and Geology*, Khin ZAW *University of Tasmania*, Carlo ARCILLA *University of the Philippines Diliman*, Long Van HOANG *Hanoi University of Mining and Geology*, Kyaw THU *Macle Gem Trade Laboratory*

SS06 **High Power Space Exploration**

*Frank JANSEN *German Aerospace Center*, Ikkoh FUNAKI *JAXA*

AS10 / The Science and Prediction of Tropical Cyclones

Wed - 09 Aug | MR331

Session Chair(s) Chun-Chieh WU, *National Taiwan University*

08:30
AS10-D3-AM1-331-028
Invited

AS10-A020
A Tropical Cyclone Dynamic Initialization Technique Using High Temporal and Spatial Density Atmospheric Motion Vectors and Airborne Field Campaign Data
Eric HENDRICKS[1#+], Michael BELL[2], Russell ELSBERRY[1], Chris VELDEN[3], Eleanor DELAP[2]
[1]Naval Postgraduate School, [2]Colorado State University, [3]Cooperative Institute for Meteorological Satellite Studies

08:45
AS10-D3-AM1-331-029
Invited

AS10-A051
Satellite Radiance Data Assimilation for Binary Tropical Cyclone Cases Over the Western North Pacific
Dong-Hyun CHA[1#+], Yong-Han CHOI[2], Myong-In LEE[1], Joowan KIM[3], Chun-Sil JIN[1], Sang-Hun PARK[4], Minsu JOH[5]
[1]Ulsan National Institute of Science and Technology, [2]Seoul National University, [3]Kongju National University, [4]Yonsei University, [5]Korea Institute of Science and Technology Information

09:00
AS10-D3-AM1-331-030

AS10-A001
A New Technique for Landfalling Tropical Cyclone Quantitative Precipitation Forecast
Fumin REN[1#+], Wenyu QIU[1], Xianling JIANG[2], Lianshou CHEN[1], Liguang WU[3], Yinglong XU[4]
[1]Chinese Academy of Meteorological Sciences, [2]Hainan Meteorological Observatory, [3]Nanjing University of Information Science & Technology, [4]National Typhoon and Marine Weather Forecast Center

09:15
AS10-D3-AM1-331-031

AS10-A003
Implementation of a Dynamic Equation Constraint Based on the Steady State Momentum Equations within the WRF Hybrid Ensemble-3DVar Data Assimilation System and Test with Radar T-TREC Wind Assimilation for Tropical Cyclone Chanthu (2010)
Jie MING[1#+], Xin LI[1], Yuan WANG[1], Ming XUE[2], Kun ZHAO[1]
[1]Nanjing University, [2]The University of Oklahoma

09:30
AS10-D3-AM1-331-032

AS10-A044
The Effect of Multiple Moving Nests on Typhoon Track Predictions: Case Study for Typhoon Chanhom (1509)
Chul Min KO[1#+], Il-Ju MOON[1]
[1]Jeju National University

09:45
AS10-D3-AM1-331-033

AS10-A009
Rainfall Forecast in Guangdong Coastal Area Induced by Landfalling Tropical Cyclones
Binrong LIU[1], Qinglan LI[1#+], Wan QILIN[2], Tiejian LI[3], Hongping LAN[4], Shengzhong FENG[1], Chunxia LIU[5]
[1]Chinese Academy of Sciences, [2]China Meteorological Administration, [3]Tsinghua University, [4]Shenzhen Meteorological Bureau, [5]Guangzhou Institute of Tropical and Marine Meteorology

10:00
AS10-D3-AM1-331-034

AS10-A036

Analysis and Real-Time Visualization of Tropical Cyclones Using Global Lightning and Satellite Microwave Radiometrics

Natalia SOLORZANO[1#+], Jeremy THOMAS[1], Connor BRACY[1]
[1]*DigiPen Institute of Technology*

BG03 / Biogeochemical Cycling of Carbon and Nitrogen in Freshwater and Marine Ecosystems

Wed - 09 Aug | MR335

Session Chair(s) Punyasloke BHADURY, *Indian Institute of Science Education and Research Kolkata*
Ajcharaporn PIUMSOMBOON, *Chulalongkorn University*

08:30 BG03-A007
BG03-D3-AM1-335-001
Fluxes and Processing of Dissolved Organic Carbon from Tropical Peatlands in Coastal Waters of Borneo as Diagnosed from Absorption and Fluorescence Spectra, and Activity of Hydrolytic Enzymes
Patrick MARTIN[1#+], Denise MÜLLER[2], Claire EVANS[3], Joost BRANDSMA[4], Ashleen TAN[1], Aazani MUJAHID[5], Moritz MÜLLER[6]
[1]Nanyang Technological University, [2]University of Bremen, [3]National Oceanography Centre, [4]University of Southampton, [5]Universiti Malaysia Sarawak, [6]Swineburne University of Technology

08:45 BG03-A009
BG03-D3-AM1-335-002
Dynamics of Dissolved Organic Matter in the Northern South China Sea: Comparison Between Continental Shelf Area and Ocean Basin
Chao WANG[1#+], Weidong GUO[1]
[1]Xiamen University

09:00 BG03-A011
BG03-D3-AM1-335-003
Temporal Variations in Methylated Sulphur Compounds in a Tropical Intertidal Estuarine Sediment Ecosystem in India
Sunita PANDEY[1,2#+], Loka Bharathi P. A[2]
[1]Indian Institute of Science Education and Research, Kolkata, [2]National Institute of Oceanography

09:15 BG03-A001
BG03-D3-AM1-335-004
Spatio-Temporal Variation of Bacterioplankton Communities in a Mangrove Ecosystem- Implication in Aquatic Biogeochemical Cycling
Anwesha GHOSH[1#+], Punyasloke BHADURY[1]
[1]Indian Institute of Science Education and Research, Kolkata

09:30 BG03-A005
BG03-D3-AM1-335-005
Seasonal Variations in Nitrogen Fixation Rate by Sulfate Reducing Bacterial Communities of a Tropical Estuary
Jabir THAJUDEEN[1#+], Mohamed Hatha A. A.[1]
[1]Cochin University of Science and Technology

09:45 BG03-A002
BG03-D3-AM1-335-006
Elucidating Heterogeneity of Free-Living Nematode Communities in Geographically Distant Mangrove Ecosystems in Link with Prevailing Environmental Gradients
Kapuli Gani Mohamed Thameemul ANSARI[1#+], Punyasloke BHADURY[1]
[1]Indian Institute of Science Education and Research, Kolkata

BG08 / Ghg Budgets (co2, Ch4, N2o) of Asia-oceanian Terrestrial Ecosystem - Responses to Climate Change and Disturbances

Wed - 09 Aug | MR335

Session Chair(s) Naishen LIANG, *National Institute for Environmental Studies*
Yingping WANG, *Commonwealth Scientific and Industrial Research Organisation*

14:00
BG08-D3-PM1-335-001
Invited

BG08-A002
Net Ecosystem Methane (CH4) Exchange from Tropical Peatlands in Sumatra, Indonesia
Chandrashekhar DESHMUKH[1#+], Adly FIRMA[1], Nardi NARDI[1], Dony JULIUS[1], Anthony GREER[1]
[1]*APRIL Group*

14:15
BG08-D3-PM1-335-002

BG08-A004
Linear and Nonlinear Effects of Dominant Drivers on the Trends in Global and Regional Land Carbon Uptake: 1959 to 2013
Yingping WANG[1#+], Xuanze ZHANG[2], Peter RAYNER[3], Jeremy SILVER[3], Xingjie LU[4], Bernard PAK[1], Xiaogu ZHENG[5]
[1]*Commonwealth Scientific and Industrial Research Organisation,* [2]*Peking University,* [3]*Melbourne University,* [4]*Oklahoma University,* [5]*Beijing Normal University*

14:30
BG08-D3-PM1-335-003

BG08-A005
Effects of Litter Manipulation on Soil Greenhouse Gas Fluxes in a Subtropical Secondary Forest
Jinglan CUI[1], Derrick LAI[1#+]
[1]*The Chinese University of Hong Kong*

14:45
BG08-D3-PM1-335-004
Invited

BG08-A007
Snow Damage Strongly Reduces the Strength of the Carbon Sink in a Primary Subtropical Evergreen Broadleaved Forest
Qing-Hai SONG[1#+]
[1]*Xishuangbanna Tropical Botanical Garden, Chinese Academy of Sciences*

15:00
BG08-D3-PM1-335-005

BG08-A006
A Comparison of Partitioning Methods in Estimating the Sources of Soil CO2 Efflux in a Subtropical Forest
Louis-Pierre COMEAU[1], Derrick LAI[1#+], Jinglan CUI[1]
[1]*The Chinese University of Hong Kong*

15:15
BG08-D3-PM1-335-006

BG08-A003
Control and Response of Soil Carbon and Methine Fluxes of Asian Tropical Forest Ecosystems
Naishen LIANG[1#+], Munemasa TERAMOTO[1], Christine FLETCHER[2]
[1]*National Institute for Environmental Studies,* [2]*Forest Research Institute of Malaysia*

HS06 / Hydroinformatics

Wed - 09 Aug | MR334

Session Chair(s) Jeanne JINHUI, *Nankai University*
Ben JARIHANI, *University of the Sunshine Coast*
Dawei HAN, *University of Bristol*

08:30 HS06-A001
HS06-D3-AM1-334-001
The Study of the Impacts of the Agriculture Practices on ET by In-Situ Measurement and Numeric Modeling in Southern China
Jeanne Jinhui HUANG[1#+], Chen HAN[2]
[1]Nankai University, [2]Chongqing Jiaotong University

08:45 HS06-A018
HS06-D3-AM1-334-002
The Study of the Dynamics of Urbanization for Small Town in Northern China by Time Series Remote Sensing Images
Jeanne Jinhui HUANG[1#+], Yubin GAO[1,2]
[1]Nankai University, [2]Chongqing Jiaotong University

09:00 HS06-A010
HS06-D3-AM1-334-003
Complex Network Characteristics of Watershed Water Quality System
Jiping JIANG[1#+], Na WU[1], Bellie SIVAKUMAR[2,3], Tianrui PANG[1]
[1]Harbin Institute of Technology, [2]University of New South Wales, [3]University of California, Davis

09:15 HS06-A015
HS06-D3-AM1-334-004
Development of Flood and Drought Web Portal for Drought Management and Planning in Thailand
Ticha LOLUPIMAN[1#+], Watin THANATHANPHON[1], Narongrit LUANGDILOK[1], Piyamarn SISOMPHON[1], Surajate BOONYA-AROONNET[1]
[1]Hydro and Agro Informatics Institute

09:30 HS06-A005
HS06-D3-AM1-334-005
Three-Dimensional Water Quality Modeling in the Subalpine Lake of Taiwan
Hao-Hua LIN[1#], Wen-Cheng LIU[1+], Hong-Ming LIU[1], Wei-Bo CHEN[2]
[1]National United University, [2]National Science and Technology Center for Diaster Reduction

09:45 HS06-A011
HS06-D3-AM1-334-006
Prediction of Groundwater Storage Changes in the Korean Peninsula Using GRACE Satellite and Artificial Neural Network
Jae Young SEO[1#+], Sang-Il LEE[1]
[1]Dongguk University

10:00 HS06-A002
HS06-D3-AM1-334-007
Large Scale Simulation Experiments for the Assessment of One-Step Ahead Forecasting Properties of Stochastic and Machine Learning Point Estimation Methods
Georgia PAPACHARALAMPOUS[1#+], Hristos TYRALIS[1], Demetris KOUTSOYIANNIS[1]
[1]National Technical University of Athens

10:15 HS06-A004
HS06-D3-AM1-334-008
Integrated System Modelling for Increasing Resilience to Water Related Multiple Hazards in the Anninghe Basin of China
Dawei HAN[1#+], Lu ZHUO[1], Ningsheng CHEN[2]
[1]University of Bristol, [2]Institute of Mountain Hazards and Environment

HS08 / Hydrological Processes in Agricultural Lands

Wed - 09 Aug | MR330

Session Chair(s) Jun NIU, *China Agricultural University*
Yiping WU, *Xi'an Jiaotong University*

16:00
HS08-D3-PM2-330-001
HS08-A001
The Interplay Between Farming and Groundwater Natural Radioactivity
Ahmed MURAD[1#+], D. ALSHAMSI[1], Saber HUSSEIN[1], Ala ALDAHAN[1], Xiaolin HOU[2]
[1]United Arab Emirates University, [2]Technical University of Denmark

16:15
HS08-D3-PM2-330-002
HS08-A003
Effects of Irrigation on Water and Energy Balance in the Heihe Agricultural Land, Northwest China
Jun NIU[1#+], Shaozhong KANG[1]
[1]China Agricultural University

16:30
HS08-D3-PM2-330-003
HS08-A002
Numerical Modeling of Effect of Groundwater Velocities on Efficiency of Ground Source Heat Exchanger
Narendra Kumar YADAV[1#+], Brijesh Kumar YADAV[2], Jogendra PAL[2]
[1]Government Irrigation Workshop, Roorkee, [2]Indian Institute of Technology Roorkee

16:45
HS08-D3-PM2-330-004
HS08-A012
Spatial-Temporal Characteristics of Potential Evaporation and the Driving Mechanism Over Tibet in China
Haiyun SHI[1,2#+], Tiejian LI[3], Guangqian WANG[3]
[1]The University of Hong Kong, [2]Qinghai University, [3]Tsinghua University

17:00
HS08-D3-PM2-330-005
HS08-A011
Evaluating Seasonal Variation in Evapotranspiration Partitioning and Water Uptake Patterns to Improve Water Use Efficiency of Winter Wheat Using Stable Isotopes
Ying MA[1#+]
[1]Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences

17:15
HS08-D3-PM2-330-006
HS08-A007
Quantitative Attribution Analysis on Runoff Changes in an Arid Region, Northwest China
Liu LIU[1#+], Lili LIU[2], Rong LI[1]
[1]China Agricultural University, [2]Changchun Water Conservancy Bureau

HS09 / Advances in Optimisation and Control of Water Resources Systems

Wed - 09 Aug | MR334

Session Chair(s) Stefano GALELLI, *Singapore University of Technology and Design*

16:00
HS09-D3-PM2-334-001
HS09-A001
Coupling Desalination Plant and Multipurpose Reservoir Operation for Enhanced Hydropower Production to Offset Desalination Energy Use
Rashi BHUSHAN[1+], Tze Ling NG[1#]
[1]Hong Kong University of Science and Technology

16:15
HS09-D3-PM2-334-002
HS09-A002
Comparison of Climate Change Adaptation Strategies for a Water Supply and Flood Control Reservoir
Tze Ling NG[1#+], Rashi BHUSHAN[1], Pan YANG[1]
[1]Hong Kong University of Science and Technology

16:30
HS09-D3-PM2-334-003
HS09-A009
A Probabilistic Analysis of Metro Manila Water Supply System Vulnerability to Hydro-Climatic Variability
Stefano GALELLI[1#+], Hung NGUYEN[1], Christoph LIBISCH[2]
[1]Singapore University of Technology and Design, [2]University of Natural Resources and Life Sciences

16:45
HS09-D3-PM2-334-004
HS09-A008
A Response Surface Approach for the Optimal Deployment of Check Dams in Erosion-Prone Areas
Debasish PAL[1#+], Stefano GALELLI[1]
[1]Singapore University of Technology and Design

HS10 / Water Cycle Satellite Remote Sensing Data Products and Their Applications

Wed - 09 Aug | MR334

Session Chair(s)
Xiwu ZHAN, *NOAA-NESDIS*
Marouane TEMIMI, *Masdar Institute, United Arab Emirates*

11:00
HS10-D3-AM2-334-001
Invited
HS10-A016
NASA Soil Moisture Active Passive Mission Status, Products and Applications
Simon YUEH[1#+], Dara ENTEKHABI[2], Peggy O'NEILL[3], Jared ENTIN[4]
[1]Jet Propulsion Laboratory, California Institute of Technology, [2]Massachusetts Institute of Technology, [3]NASA Goddard Space Flight Center, [4]National Aeronautics and Space Administration

11:15
HS10-D3-AM2-334-002
Invited
HS10-A008
Upscaling Evapotranspiration by Combining Remote Sensing and Flux-Tower Data Through Support Vector Regression in the North China Plain
Beijing FANG[1#+], Huimin LEI[1]
[1]Tsinghua University

11:30
HS10-D3-AM2-334-003
HS10-A005
Can Optical/thermal Remote Sensing Capture the Global Land Wetness and its Trends?
Jun WEN[1,2#+]
[1]Chinese Academy of Sciences, [2]Chengdu University of Information Technology

11:45
HS10-D3-AM2-334-004
HS10-A007
Inversion of Vegetation Optical Depth and Water Content in the Source Region of the Yellow River Using FY-3B Microwave Data
Rong LIU[1#+]
[1]Chinese Academy of Sciences

12:00 HS10-A015

HS10-D3-AM2-334-005 Assessment of the Consistency Among Satellite Estimates of Precipitation Soil Moisture and Water Storage Over the Arabian Peninsula

Marouane TEMIMI[1#+], Youssef WEHBE[1], Dawit GHEBREYESUS[1], Adam MILEWSKI[2], Hamidreza NOROUZI[3]

[1]Masdar Institute, [2]University of Georgia, [3]City University of New York

12:15 HS10-A001

HS10-D3-AM2-334-006 Analysis of Global Satellite Soil Moisture Time Series Data Products Toward a Climate Data Record for Water Cycle Studies

Xiwu ZHAN[1#+], Jifu YIN[2], Jicheng LIU[1], Li FANG[2], Christopher HAIN[3], Ralph FERRARO[1], Fuzhong WENG[1]

[1]National Oceanic and Atmospheric Administration, [2]University of Maryland, [3]NASA Marshall Space Flight Center

Session Chair(s) Xiwu ZHAN, *NOAA-NESDIS*
Rong LIU, *Chinese Academy of Science*

14:00 HS10-A014

HS10-D3-PM1-334-007 Invited Multivariate, Multi-Sensor Assimilation of Land Remote Sensing Datasets for National Climate Assessment

Sujay KUMAR[1#+], Michael JASINSKI[1], David MOCKO[1], Jordan BORAK[1], Matthew RODELL[1], Bailing LI[1], Christa PETERS-LIDARD[1]

[1]NASA Goddard Space Flight Center

14:15 HS10-A017

HS10-D3-PM1-334-008 Invited Global Inundation Mapping Using Satellite Remote Sensing and Hydrological Modeling Approaches

Zhijun HUANG[1+], Huan WU[1,2#]

[1]Sun Yat-sen University, [2]University of Maryland

14:30 HS10-A010

HS10-D3-PM1-334-009 "All Weather" Land Surface Temperature Generation by Merging Thermal Infrared and Passive Microwave Remote Sensing Data

Xiaodong ZHANG[1], Ji ZHOU[1#+], Jin MA[1]

[1]University of Electronic Science and Technology of China

14:45 HS10-A009

HS10-D3-PM1-334-010 Estimation Of Green Water Footprint Of Rice Paddies Using Modis Data

Shih-Yuan LIN[1#+], Tzu-Yu HUANG[1], Chun-Te LIN[2], Chih-Da WU[3]

[1]National Chengchi University, [2]National Chiao Tung University, [3]National Chiayi University

15:00 HS10-A004

HS10-D3-PM1-334-011 Analysis on Energy Balance Closure of Wetlands in Different Latitudes: The Role of Surface Heterogeneity

Ting Fong May CHUI[1#+], Wenhui CUI[1]

[1]The University of Hong Kong

15:15 HS10-A006

HS10-D3-PM1-334-012 Study on Landslide Detection Using Spatial Normalized Differences Indexes Variation in Some Provinces in Northern Vietnam Using Landsat 8 Satellite Images

Thi Thanh Thuy LE[1#+], Seiki KAWAGOE[1]

[1]Fukushima University

HS19 / Hydrologic Prediction and Measures Considering Extreme Climate Conditions

Wed - 09 Aug | MR330

Session Chair(s) Jun Haeng HOE, *Yonsei University*

14:00 HS19-A016
HS19-D3-PM1-330-001
Parameter Estimation Using Optimization Model Urban Inundation Analysis
Ho Jun KEUM[1+], Kun-Yeun HAN[1#], HyunIl KIM[1], Chang Young HA[2], Byunghyun KIM[1]
[1]Kyungpook National University, [2]Korea Rural Community Corporation

14:15 HS19-A004
HS19-D3-PM1-330-002
Assessment of the Parameter Estimation Method in Bivariate Frequency Analysis for Rainfall Data
Kyungwon JOO[1#+], Younghun JUNG[1], Sunghun KIM[1], Jun-Haeng HEO[1]
[1]Yonsei University

14:30 HS19-A010
HS19-D3-PM1-330-003
A Study of Spatial Multi-Criteria Decision Making for Selection of Optimal Flood Defense Measures
Eunkyung LEE[1#+], Jungwon JI[1], Youngje CHOI[1], Jaeeung YI[1]
[1]Ajou University

14:45 HS19-A005
HS19-D3-PM1-330-004
Seasonal Prediction of Monthly Total Precipitation in South Korea Using Global Climate Indices
Taereem KIM[1#+], Hanbeen KIM[1], Younghun JUNG[1], Jun-Haeng HEO[1]
[1]Yonsei University

15:00 HS19-A006
HS19-D3-PM1-330-005
Comparison of Eemd and Maximum Likelihood Method for Parameter Estimation in Nonstationary Frequency Analysis
Hanbeen KIM[1#+], Taereem KIM[1], Younghun JUNG[1], Jun-Haeng HEO[1]
[1]Yonsei University

15:15 HS19-A015
HS19-D3-PM1-330-006
Integrated Flood Risk Analysis By Applying 2-D Model in Urban Area
Jae Yeong LEE[1+], Je Ryong JUNG[2], Jun Hyung PARK[1], Kun-Yeun HAN[1#]
[1]Kyungpook National University, [2]Ministry of Public Safety and Security

HS23 / Ecohydrology

Wed - 09 Aug | MR330

Session Chair(s) Dawen YANG, *Tsinghua University*
Bellie SIVAKUMAR, *University of New South Wales*

08:30 HS23-A011
HS23-D3-AM1-330-001
Invited
Ecohydrology: Past, Present, Future
Okke BATELAAN[1#+], Randall HUNT[2], Masaki HAYASHI[3]
[1]Flinders University, [2]United States Geological Survey, [3]University of Calgary

08:45
HS23-D3-AM1-330-002
Invited

HS23-A001
Impact of Warming Trend on the Ecohydrology of Tundra-Forest Ecotone
Jingfeng WANG[1#+], Husayn EL SHARIF[1], Valeriy IVANOV[2], Stepan SHIYATOV[3], Valeriy MAZEPA[3]
[1]Georgia Institute of Technology, [2]University of Michigan, [3]The Ural Branch of the Russian Academy Sciences

09:00
HS23-D3-AM1-330-003

HS23-A004
Multi-Sphere Hydrological Modeling Over the Tibetan Plateau
Lei WANG[1#+], Jing ZHOU[1], Xiuping LI[1], Guangpeng WANG[1], Jia QI[1]
[1]Chinese Academy of Sciences

09:15
HS23-D3-AM1-330-004

HS23-A002
Analyzing Eco-Hydrological Changes in a Headwater Catchment on the Qinghai-Tibetan Plateau Using a Distributed Model
Bing GAO[1#+], Dawen YANG[2], Yuhan WANG[2]
[1]China University of Geosciences, [2]Tsinghua University

09:30
HS23-D3-AM1-330-005

HS23-A015
Frozen Ground Change and its Impacts on Runoff Pattern and Vegetation Growth in the Upper Yellow River
Taihua WANG[1#+], Dawen YANG[1], Yue QIN[1]
[1]Tsinghua University

09:45
HS23-D3-AM1-330-006
Invited

HS23-A007
Impacts of Ecological Restoration Activities on Vegetation Growth and Streamflow in the Loess Plateau, China
Huimin LEI[1#+]
[1]Tsinghua University

Session Chair(s) Ji CHEN, *The University of Hong Kong*

11:00
HS23-D3-AM2-330-007
Invited

HS23-A016
Ecological Sensitivity and Functional Responses of Australian Landscapes to Extreme Hydro-Meteorological Conditions
Alfredo HUETE[1#+], Xuanlong MA[1], Leandro GIOVANNINI[1], Zunyi XIE[1]
[1]University of Technology Sydney

11:15
HS23-D3-AM2-330-008
Invited

HS23-A017
Estimation of Pan Evaporation Over China
Minjiao LU[1,2#+]
[1]Nagaoka University of Technology, [2]Chongqing Jiaotong University

11:30
HS23-D3-AM2-330-009

HS23-A018
The Changing Precipitation Pattern and its Impacts on Terrestrial Ecosystems Across Biomes
Hong SHEN[1#+], Zhentao CONG[1]
[1]Tsinghua University

11:45
HS23-D3-AM2-330-010

HS23-A021
Influences of River Water Turbidity and Other Physical Properties on Biodiversity in the Lai Chi Wo Catchment in Hong Kong, China
Ji CHEN[1#+], Ka Chun LIU[1], Qian XU[1], Yi LU[1], Mervyn PEART[1], Billy HAU[1], Hung Hong HUI[1], Ying Kin SO[1]
[1]The University of Hong Kong

12:00 HS23-A022

HS23-D3-AM2-330-011 Evaluating the Performance of ABC Waters Design Features Using In-situ Monitoring and Numerical Modelling

Yabin SUN[1#+], Ze JIANG[1], Wing Ken YAU[2], Dongeon KIM[1], Enid Yingru CHEN[2], Geok Suat ONG[2], Shie-Yui LIONG[1]

[1]National University of Singapore, [2]Public Utilities Board

12:15 HS23-A013

HS23-D3-AM2-330-012 Quantifying the Impacts of Slopping Land Conversion Program on Hydrological Cycle in a Loessal-Hilly Watershed of China

Linjing QIU[1+], Yiping WU[1#]

[1]Xi'an Jiaotong University

IG11 / Hydroclimate Variation in the Tropical Indo-pacific Since the Late Pleistocene

Wed - 09 Aug | MR332

Session Chair(s) Hong-Wei CHIANG, *National Taiwan University*
Xianfeng WANG, *Nanyang Technological University*

11:00
IG11-D3-AM2-332-001
Invited
IG11-A015
Obliquity Control on Asian Summer Monsoon
Shihyu LEE[1#+], Chi-Hua WU[1]
[1]*Academia Sinica*

11:20
IG11-D3-AM2-332-002
IG11-A001
Tropical Rainfall Variations During the Last 2700 Years
Liangcheng TAN[1#+], Chuan-Chou SHEN[2], Xianfeng WANG[3], Yanjun CAI[1], Sakonvan CHAWCHAI[4], Ludvig LOEWEMARK[4], R. Lawrence EDWARDS[5], Hai CHENG[6]
[1]*Chinese Academy of Sciences,* [2]*National Taiwan University,* [3]*Nanyang Technological University,* [4]*Stockholm University,* [5]*University of Minnesota,* [6]*Xi'an Jiaotong University*

11:35
IG11-D3-AM2-332-003
Invited
IG11-A013
Isotopic Compositions of Fluid Inclusions Water from Stalagmites in Okinawa, Japan
Ryu UEMURA[1#+], Satoru MISHIMA[1], Kanako OMINE[1], Ryuji ASAMI[1], Chen JIN-PING[2], Chuan-Chou SHEN[2]
[1]*University of the Ryukyus,* [2]*National Taiwan University*

11:55
IG11-D3-AM2-332-004
IG11-A003
A Severe Drought Happened in Central China Ca. 600 Years Ago
Houyun ZHOU[1#+], Shuhua LIU[1]
[1]*South China Normal University*

12:10
IG11-D3-AM2-332-005
Invited
IG11-A006
Late Holocene Hydroclimatic Contrasts Between EASM and ISM Areas
Hai XU[1#+]
[1]*Chinese Academy of Sciences*

Session Chair(s) Liangcheng TAN, *Chinese Academy of Sciences*
Hong-Wei CHIANG, *National Taiwan University*

14:00
IG11-D3-PM1-332-006
IG11-A011
Indian Monsoon Variability Dominated by Glacial Boundary Conditions: Evidenced by Speleothem Records from Southern Myanmar and Western Thailand
Guangxin LIU[1#+], Xianfeng WANG[1], Hong-Wei CHIANG[2], Sakonvan CHAWCHAI[3], Lin Thu AUNG[1,4]
[1]*Nanyang Technological University,* [2]*National Taiwan University,* [3]*Chulalongkorn University,* [4]*Myanmar Geosciences Society*

14:15 IG11-A005

IG11-D3-PM1-332-007 The Hydroclimate Change Over the Indo-Pacific Warm Pool During the Last 30,000 Years

Shufang YUAN[1#+], Xianfeng WANG[1], Guangxin LIU[1], Hong-Wei CHIANG[2], Satria BIJAKSANA[3], Xiuyang JIANG[4], Andi Muhammad IMRAN[5], Satrio WICAKSONO[6]

[1]Nanyang Technological University, [2]National Taiwan University, [3]Institut Teknologi Bandung, [4]Fujian Normal University, [5]Hasanuddin University, [6]Brown University

14:30 IG11-A007

IG11-D3-PM1-332-008 Pacific North American Circulation Pattern Links External Forcing and North American Hydroclimatic Change Over the Past Millennium

Zhongfang LIU[1#+], Zhimin JIAN[1], Gabriel BOWEN[2]

[1]Tongji University, [2]University of Utah

14:45 IG11-A021

IG11-D3-PM1-332-009 Kinetic Isotope Effects in Modern Speleothem Calcite at the Seasonal Time Scale in Yongxing Cave, Central China: Implications for Interpretation of Paleoclimate Records

Quan WANG[1+], Yongjin WANG[1#]

[1]Nanjing Normal University

15:00 IG11-A017

IG11-D3-PM1-332-010 PMIP3 Simulation of ENSO Impact on Tropical Precipitation During the Mid-Holocene

Yudha DJAMIL[1#+], Xianfeng WANG[1]

[1]Nanyang Technological University

IG12 / Geoscience Education

Wed - 09 Aug | MR333

Session Chair(s) Hoe Teck TAN, *School of Science and Technology*
I-Te LEE, *Meteorological Information Center*

14:00 IG12-A001

IG12-D3-PM1-333-001 Satellite Design Contest in Japan- Present and Future

Koichiro OYAMA[1,2#+], Takeshi ORI[3]

[1]National Cheng Kung University, [2]Asia Space Environment Research Consortium, [3]Japan Space Forum

14:15 IG12-A004

IG12-D3-PM1-333-002 Teleplaneta: A Pioneer Educational Television Program on Geosciences

David CALVO[1#+], Nemesio PEREZ[2], Domingo ALVAREZ[3], Nieves MARRERO[3], Raúl DEL CASTILLO[3], Gustavo JIMENEZ[3], Elena ALONSO[3], Casimiro MENESES[3]

[1]Volcanological Institute of the Canary Islands (INVOLCAN), [2]Technological Institute of Renewable Energy (ITER), [3]Radio Television Española

14:30 IG12-A006

IG12-D3-PM1-333-003 Geo-Sciences Education Through AOGS

Hoe Teck TAN[1#+]

[1]School of Science and Technology

14:45 IG12-A008

IG12-D3-PM1-333-004 Empowering Urban Poor Communities in Jakarta Through Geosciences Teaching

Anggun ARMIA[1#+]

[1]Pertamina EP

15:00 IG12-A009
IG12-D3-PM1-333-005
In-School Service for the Field of Meteorology, Seismology, and Space Weather
I-Te LEE[1,2#+], Jia-Chi CHEN[1], Fu-Yu WU[1], Mark CHENG[1]
[1]Central Weather Bureau, [2]National Taiwan University

15:15 IG12-A010
IG12-D3-PM1-333-006
Canary Islands: A Volcanic Window in the Atlantic Ocean
David CALVO[1#+], Nemesio PEREZ[2], Gladys MELIAN[2], Fátima RODRÍGUEZ[3], Pedro HERNANDEZ[2]
[1]Volcanological Institute of the Canary Islands (INVOLCAN), [2]Technological Institute of Renewable Energy (ITER), [3]Volcanological Institute of the Canary Islands

IG19 / Landslide Identification, Prediction, and Monitoring Using Multi-disciplinary Technologies

Wed - 09 Aug | MR333

Session Chair(s) Chih-Chung CHUNG, *National Central University*
Jia-Jyun DONG, *National Central University*

08:30 IG19-A011
IG19-D3-AM1-333-001
Invited
Rapid Susceptibility Mapping of Coseismic Landslides Triggered by the 2014 Ms 6.5 Ludian Earthquake, Yunan, China
Weile LI[1#+], Runqiu HUANG[1], Qiang XU[1], Chuan TANG[1]
[1]Chengdu University of Technology

08:50 IG19-A013
IG19-D3-AM1-333-002
Invited
Susceptibility and Early Warning Thresholds for Rainfall-Induced Landslides in Taiwan
Lun-Wei WEI[1#+], Chuen-Ming HUANG[1], Wei-Kai HUANG[1], Ching-Fang LEE[1], Ting-Chi TSAO[1], Chung-Chi CHI[2]
[1]Sinotech Engineering Consultants, INC., [2]Central Geological Survey

09:10 IG19-A015
IG19-D3-AM1-333-003
Invited
Construction of National Landslide Susceptibility/Hazard Maps in Taiwan
Chyi-Tyi LEE[1#+]
[1]National Central University

09:30 IG19-A014
IG19-D3-AM1-333-004
Sediment-Budget-Based Debris-Flow Susceptibility
Chyi-Tyi LEE[1#+], Jia-Jyun DONG[1]
[1]National Central University

09:45 IG19-A005
IG19-D3-AM1-333-005
Rapid Hazard Assessment of Rainfall and Earthquake Induced Landslide Dam - A Review
Jia-Jyun DONG[1#+]
[1]National Central University

10:00 IG19-A009
IG19-D3-AM1-333-006
Noncontact Detection of Earthquake-Induced Landslides Using Improved Image Thresholding Method
Zheng HAN[1#+], Yange LI[1], Weidong WANG[1]
[1]Central South University

10:15 IG19-A001
IG19-D3-AM1-333-007 A Modified Monitoring Platform with TDR Sensing Capability and Sensor Observation Service
Chih-Chung CHUNG[1#+], Chih-Ray GUAN[1], Chih-Ping LIN[2]
[1]National Central University, [2]National Chiao Tung University

IG21 / Carbon Dioxide Capture and Storage (CCS) in Asia & Oceania Regions

Wed - 09 Aug | MR332

Session Chair(s) Qi LI, *Chinese Academy of Sciences*
Andrew FEITZ, *Geoscience Australia*
Masao SORAI, *National Institute of Advanced Industrial Science and Technology*

08:30 IG21-A012
IG21-D3-AM1-332-001 Research and Development of Safety Assessment Technology for Saline Aquifer Storage
Invited
Ziqiu XUE[1#+]
[1]Research Institute of Innovative Technology for the Earth

08:45 IG21-A014
IG21-D3-AM1-332-002 Shallow Release Experiments: Where are the Gaps for Future Sites?
Invited
Linda STALKER[1#+], Jennifer ROBERTS[2]
[1]Commonwealth Scientific and Industrial Research Organisation, [2]University of Strathclyde

09:00 IG21-A002
IG21-D3-AM1-332-003 Sealing Efficiency Analysis for Multilayer Caprocks in CO2 Geological Storage
Jianguo WANG[1#+], Huimin WANG[1]
[1]China University of Mining and Technology

09:15 IG21-A010
IG21-D3-AM1-332-004 Site Suitability Assessment for the Planned CO2CRC Otway Shallow Fault Experiment
Andrew FEITZ[1#+], Roman PEVZNER[2], Milovan UROSEVIC[2], Brett HARRIS[2], Adam BAILEY[1], Ulrike SCHACHT[3], Tim RANSLEY[1], Ralf SCHAA[2], Merrie-Ellen GUNNING[1], Eamon LAI[1], Bruce RADKE[1], Muhammad HOSSAIN[2], Kok Piang TAN[1], Ross SPULAK[1], Eric TENTHOREY[1], Tanya FOMIN[1]
[1]Geoscience Australia, [2]Curtin University, [3]University of Adelaide

09:30 IG21-A005
IG21-D3-AM1-332-005 Reservoir Screening Criteria of Cyclic CO2 Injection Process for Enhanced Gas Recovery and CO2 Storage in Depleted Carbonate Gas Reservoir
Edo PRATAMA[1#+], Edo PRATAMA[1], Syahrir RIDHA[1]
[1]Universiti Teknologi Petronas

09:45 IG21-A009
IG21-D3-AM1-332-006 Investigation of Sealing Ability on Heterogeneous Multilayered Caprock: Simulation Study of a Potential Storage System in Central Taiwan
Chien-Hao SHEN[1], Bieng-Zih HSIEH[1#+], Kenn-Ming YANG[1], Chung-Hui CHIAO[2], Chung HUANG[2], Ming-Wei YANG[2], Yuan-Heng LI[1]
[1]National Cheng Kung University, [2]Taiwan Power Company

10:00
IG21-D3-AM1-332-007
IG21-A004
Molecular Dynamics Study on Wettability Change of CO2-Brine-Calcite Three Phase System
Masashige SHIGA[1#+], Masao SORAI[2], Weiren LIN[1], Liang YUNGFENG[3]
[1]Kyoto University, [2]National Institute of Advanced Industrial Science and Technology, [3]The University of Tokyo

10:15
IG21-D3-AM1-332-008
IG21-A006
International Collaboration Activities of the CO2GeoNet European Network of Excellence on CO2 Geological Storage
Isabelle CZERNICHOWSKI-LAURIOL[1#+], Roman BERENBLYUM[2], Sabina BIGI[3], Marjeta CAR[4], Sergio PERSOGLIA[5], Niels POULSEN[6], Conny SCHMIDT-HATTENBERGER[7], Rowena STEAD[8], Ceri VINCENT[9], Ton WILDENBORG[10]
[1]CO2GeoNet / BRGM, [2]International Research Institute of Stavanger (IRIS), [3]Sapienza University of Rome, [4]Geoinženiring d.o.o., [5]National Institute of Oceanography and Experimental Geophysics, [6]Geological Survey of Denmark and Greenland, [7]GFZ Helmholtz Centre Potsdam, [8]Bureau of Geological and Mining Research, [9]British Geological Survey, [10]Netherlands Organisation for Applied Scientific Research

IG24 / Geophysical and Geological Evidences of Submarine Landslides

Wed - 09 Aug | MR333

Session Chair(s)
Leo ARMADA, *University of Philippines*
Jing-Yi Lin, *National Central University*

11:00
IG24-D3-AM2-333-001
IG24-A009
Submarine Mass Movements in the Eastern South China Sea: Geomorphic and Seismic Reflection Evidence from the Manila Trench Region
Leo ARMADA[1#+], Shu-Kun HSU[2], Carla DIMALANTA[3], Yi-Ching YEH[2], Noelynna RAMOS[3], Teresito BACOLCOL[4], Graciano YUMUL, JR.[5,6]
[1]University of the Philippines, [2]National Central University, [3]University of the Philippines Diliman, [4]Philippine Institute of Volcanology and Seismology, [5]Monte Oro Resources & Energy, Inc., [6]Apex Mining Co. Inc.

11:15
IG24-D3-AM2-333-002
Invited
IG24-A002
Seabed Gas Emissions and Submarine Landslides off SW Taiwan
Shu-Kun HSU[1#+], Song-Chuen CHEN[2], Shiao-Shan LIN[1], Ching-Hui TSAI[1], Shiou-Ya WANG[1], Wen-Bin DOO[1]
[1]National Central University, [2]Ministry of Economic Affairs

11:30
IG24-D3-AM2-333-003
IG24-A004
Characteristics and Features of the Submarine Landslides in Passive and Active Margin Southwestern Offshore Taiwan
Yi-Ching YEH[1#+], Jing-Yi LIN[1], Shu-Kun HSU[1], Song-Chuen CHEN[2], Ching-Hui TSAI[1]
[1]National Central University, [2]Ministry of Economic Affairs

11:45
IG24-D3-AM2-333-004
IG24-A005
Seismic Site Response of Submarine Slope Offshore Southwestern Taiwan
Jing-Yi LIN[1#+], Yi-Ching YEH[1], Chih-Chieh SU[2], Win-Bin CHENG[3], Shao-Jinn CHIN[2], Yen-Fu CHEN[2]
[1]National Central University, [2]National Taiwan University, [3]Jinwen university of science & technology

IG26 / Interdisciplinary Research on Tropical Cyclone Induced Coastal Flooding: from Modeling Perspective

Wed - 09 Aug | MR332

Session Chair(s) Xiping YU, *Tsinghua University*

16:00
IG26-D3-PM2-332-001
Invited

IG26-A016
Dynamically Downscaled Climate Projections Over Southeast Asia
Shie-Yui LIONG[1#+], Srivatsan RAGHAVAN[1], Ngoc Son NGUYEN[1], Jina HUR[1], Jiandong LIU[1], Yu XING[1]
[1]National University of Singapore

16:15
IG26-D3-PM2-332-002

IG26-A011
Evaluating Future Variations of Tropical Cyclone and Induced Ocean Waves in Fiji by Pseudo Global Warming Numerical Simulations
Kenji TANIGUCHI[1#+], Yoshimitsu TAJIMA[2]
[1]Kanazawa University, [2]The University of Tokyo

16:30
IG26-D3-PM2-332-003

IG26-A005
Modeling of Wind Stress Under Storm Conditions and its Effect on Waves and Surges
Xiping YU[1#+], Yingjian CHEN[2]
[1]Tsinghua University, [2]State Key Laboratory of Hydroscience and Engineering

16:45
IG26-D3-PM2-332-004

IG26-A007
Development of an Integrated Model for Urbanized Coastal Area Flooding Due to Typhoons
Hiroshi SANUKI[1#+], Yoshihiro SHIBUO[2], Sungae LEE[3], Kouhei YOSHIMURA[4], Hiroaki FURUMAI[3], Yoshimitsu TAJIMA[3], Shinji SATO[3]
[1]Penta-ocean Construction Co Ltd, [2]International Centre for Water Hazard and Risk Management, [3]The University of Tokyo, [4]Kochi University of Technology

17:00
IG26-D3-PM2-332-005

IG26-A013
Modeling Typhoon Induced Waves and Storm Surge in the South China Sea: Case Studies of the Super Typhoon Haiyan and Typhoon Hagupit Using Wind-Wave Coupled Models
Jie YANG[1#+], Linlin LI[2], Hongjun ZHAO[1], Philip Li-Fan LIU[3]
[1]Hohai University, [2]Nanyang Technological University, [3]National University of Singapore

17:15
IG26-D3-PM2-332-006

IG26-A004
SPH Simulations of Storm Surge and Wave Overtopping of Coastal Structures
Huabin SHI[1#+], Xiping YU[1]
[1]Tsinghua University

17:30
IG26-D3-PM2-332-007

IG26-A001
Analytical Study of Hydrodynamic Properties of Dam-Break Flooding
Xiaohu DENG[1#+]
[1]Zhejiang University

17:45
IG26-D3-PM2-332-008

IG26-A014
Wave Overtopping Against Sea Dikes Under Extreme Conditions
Hua LIU[1#+], Wei WU[1], Yongliu FANG[1]
[1]Shanghai Jiao Tong University

IG27 / Insights of Landslide Process, from Field Observation, Physical Modelling and Numerical Simulation

Wed - 09 Aug | MR333

Session Chair(s) Wen-Chao HUANG, *National Central University*

16:00
IG27-D3-PM2-333-001
Invited

IG27-A001
Characteristics of Causative Factors Causing Landslides in a Part of the Indian Himalaya
Alok BHARDWAJ[1#+], Alan ZIEGLER[1], Robert WASSON[1], Winston CHOW[1], Y.P. SUNDRIYAL[2]
[1]National University of Singapore, [2]Hemwati Nandan Bahuguna Garhwal University

16:15
IG27-D3-PM2-333-002

IG27-A002
Performance of the Portable Signal Transmitter (Beacon) at Buried Condition in the Soil
Shohei DOHI[1#+], Koji ICHII[2]
[1]Hiroshima University, [2]Kansai University

16:30
IG27-D3-PM2-333-003
Invited

IG27-A003
The Analysis of Landslides Using Broadband Seismic Network
Ching-Tang HUANG[1+], Chi-Chia TANG[2#]
[1]China University of Geosciences (Wuhan), [2]China University of Geosciences

16:45
IG27-D3-PM2-333-004

IG27-A006
The Failure Behaviours of Sandy Slope by Centrifuge Modelling Under Gravity and Earthquake Condition
Minh Canh TRAN[1#+], Wen-Yi HUNG[1]
[1]National Central University

17:00
IG27-D3-PM2-333-005

IG27-A008
Velocity Dependent Frictional Weakening of Large Rock Avalanche Basal Facies: Implications for Rock Avalanche Hypermobility?
Yu-Feng WANG[1#+], Jia-Jyun DONG[1], Qiang-Gong CHENG[2]
[1]National Central University, [2]Southwest Jiaotong University

17:15
IG27-D3-PM2-333-006
Invited

IG27-A009
Relationship of Frictional Characteristics and Pore Pressure of Kaolin Clay Under Different Slip Rates and Drainage Conditions
Jia-Jyun DONG[1#+], Yi-Wei LEE[1], Che-Ming YANG[1], Yu-Feng WANG[1]
[1]National Central University

17:30
IG27-D3-PM2-333-007

IG27-A010
Sliding and Deformation Characteristics of Several High Slopes in Indonesia
Sugeng KRISNANTO[1#+], Masyhur IRSYAM[2], Idrus Muhammad ALATAS[3], Pintor T. SIMATUPANG[4]
[1]Bandung Institute of Technology (ITB), Indonesian Society for Geotechnical Engineering (ISGE/HATTI), [2]Bandung Institute of Technology, [3]National Institute of Science and Technology, Indonesian Society for Geotechnical Engineering (ISGE/HATTI), [4]Universitas Mercu Buana

17:45
IG27-D3-PM2-333-008
Invited

IG27-A012
Dynamic Frictional Characteristics of High-Speed Rolling Limestone
Gang LUO[1#+], Xiewen HU[1]
[1]Southwest Jiaotong University

OS02 / Regional Oceanic Numerical Modeling and Observations

Wed - 09 Aug | MR328

Session Chair(s) Jae Hak LEE, *Korea Institue of Ocean Science and Technology*

11:00
OS02-D3-AM2-328-001
Invited
OS02-A037
Recent Progress on the Observations and Modeling of Ocean Currents in Eastern Indian Ocean
Dongxiao WANG[1#+], Gengxin CHEN[2], Qin-Yan LIU[1], Ke HUANG[1]
[1]South China Sea Institute of Oceanology, [2]Chinese Academy of Sciences

11:15
OS02-D3-AM2-328-002
OS02-A002
Numerical Simulations of the Interaction Between Internal Waves and the Kuroshio Current Over the Izu-Ogasawara Ridge
Eiji MASUNAGA[1#+], Guillaume AUGER[2], Matt RAYSON[3], Oliver FRINGER[4], Yusuke UCHIYAMA[5], Hidekatsu YAMAZAKI[6]
[1]Ibaraki University, [2]IBM Research Watson, [3]University of Western Australia, [4]Stanford University, [5]Kobe University, [6]Tokyo University of Marine Science and Technology

11:30
OS02-D3-AM2-328-003
OS02-A026
Impact of Diurnal Tides on General Circulation and Mixing in a Mid-Latitude Basin
Dong WANG[1#+]
[1]Nanjing University of Information Science & Technology

11:45
OS02-D3-AM2-328-004
OS02-A012
The Influence of the Kuroshio on Typhoon-Driven Waves in the East China Sea
Jin WANG[1], Changming DONG[1,2]
[1]Nanjing University of Information Science & Technology, [2]University of California, Los Angeles

12:00
OS02-D3-AM2-328-005
OS02-A029
Eco-Adaptation in the Southern Pacific Ocean and the Role of Regional Ocean Modelling
Serena LEE[1#+], Charles LEMCKERT[1,2], Rodger TOMLINSON[1]
[1]Griffith University, [2]University of Canberra

Session Chair(s) Yusuke UCHIYAMA, *Kobe University*
Hui WU, *East China Normal University*

14:00
OS02-D3-PM1-328-006
Invited
OS02-A044
Oceanic Channel Dynamics of the IOD-ENSO Precursory Relation Over the Tropical Indo-Pacific Ocean
Dongliang YUAN[1#], Jing WANG[1], Xia ZHAO[1], Hui ZHOU[1]
[1]Chinese Academy of Sciences

14:15
OS02-D3-PM1-328-007
OS02-A003
Turbulent Kinetic Energy of the Ocean Winds Over the Kuroshio Extension from QuikSCAT Winds (1999-2009)
Kai YU[1#+], Changming DONG[1,2], Gregory KING[3]
[1]Nanjing University of Information Science & Technology, [2]University of California, Los Angeles, [3]Institut de Ciencies del Mar (ICM-CSIC)

14:30
OS02-D3-PM1-328-008
OS02-A013
Effect of a Fast-Moving Tropical Storm Washi on Phytoplankton in the Northwestern South China Sea
Hui ZHAO[1#+]
[1]Guangdong Ocean University

14:45
OS02-D3-PM1-328-009
OS02-A017
Submesoscale Fronts Observed by Satellites Over the Northern South China Sea Shelf
Jihai DONG[1#+], Yishen ZHONG[2], Changming DONG[1,3], Jiwei TIAN[4]
[1]Nanjing University of Information Science & Technology, [2]Shanghai Jiao Tong University, [3]University of California, Los Angeles, [4]Ocean University of China

15:00
OS02-D3-PM1-328-010
OS02-A020
Bottom-Trapped Characteristics of Changjiang River Plume Along the Zhe-Min Coast
Hui WU[1#+]
[1]East China Normal University

15:15
OS02-D3-PM1-328-011
OS02-A023
Submesoscale Eddy-Induced Mixing and Dispersion of Radioactive Tracer Off the Northeastern Pacific Coast of Japan
Yuki KAMIDAIRA[1,2#+], Hideyuki KAWAMURA[1], Takuya KOBAYASHI[1], Yusuke UCHIYAMA[2], Akiko FURUNO[1]
[1]Japan Atomic Energy Agency, [2]Kobe University

Session Chair(s) Leo OEY, *National Central University*

16:00
OS02-D3-PM2-328-012
Invited
OS02-A043
Storm Surges Remote Sensing from Chinese HY-2A Satellite Radar Altimetry
Jingsong YANG[1#+], Xiaohui LI[1], Guoqi HAN[2], Nan CHEN[1], Dake CHEN[1]
[1]State Oceanic Administration, [2]Fisheries and Oceans Canada

16:15
OS02-D3-PM2-328-013
OS02-A030
Intrinsic Low-Frequency Variability in Transient Three-Dimensional Rip Currents
Yusuke UCHIYAMA[1#+], James C. MCWILLIAMS[2], Cigdem AKAN[2]
[1]Kobe University, [2]University of California, Los Angeles

16:30
OS02-D3-PM2-328-014
OS02-A008
Anthropogenic and Climatic Impacts on the Water and Sediment Flux of the Yellow, Yangtze and Pearl River Basins Over the Past 60 Years
Qing TIAN[1#+], Changming DONG[1,2], Shilun YANG[3]
[1]Nanjing University of Information Science & Technology, [2]University of California, Los Angeles, [3]East China Normal University

16:45
OS02-D3-PM2-328-015
OS02-A016
Impact of the Kuroshio on Dispersal of Coral Spawn and Larvae Around Ryukyu Islands in the East China Sea
Sachika ODANI[1#+], Yusuke UCHIYAMA[1], Motohiko KASHIMA[2], Yuki KAMIDAIRA[1,3], Satoshi MITARAI[4]
[1]Kobe University, [2]Kobe Gakuin University, [3]Japan Atomic Energy Agency, [4]Okinawa Institute of Science and Technology Graduate University

17:00 OS02-A031
OS02-D3-PM2-328-016
Eddy Analysis in the North Pacific Based on Altimetry-Derived Surface Currents
Nobue OKADA[1#+], Yusuke UCHIYAMA[1], Yu LIU[2], Changming DONG[2,3]
[1]Kobe University, [2]Nanjing University of Information Science & Technology, [3]University of California, Los Angeles

17:15 OS02-A028
OS02-D3-PM2-328-017
Spatial Adjustment Dynamics of the On-Shelf Intrusion of the Kuroshio Northeast of Taiwan
Xiaohui LIU[1#+], Jilan SU[2], Dake CHEN[1], Changming DONG[3,4]
[1]State Oceanic Administration, [2]State Key Laboratory of Satellite Ocean Environment Dynamics (SOED), [3]Nanjing University of Information Science & Technology, [4]University of California, Los Angeles

17:30 OS02-A006
OS02-D3-PM2-328-018
Antisymmetry of Oceanic Eddies Across the Kuroshio Over a Shelfbreak
Yu LIU[1#+], Changming DONG[1,2], Xiaohui LIU[3]
[1]Nanjing University of Information Science & Technology, [2]University of California, Los Angeles, [3]State Oceanic Administration

17:45 OS02-A032
OS02-D3-PM2-328-019
Inter-Annual and Seasonal Variability of Upper-Ocean Primary Production Along the Kuroshio Off Japan
Xu ZHANG[1#+], Yusuke UCHIYAMA[1]
[1]Kobe University

OS08 / Future Coastal Oceans Under Climatic and Anthropogenic Scenarios

Wed - 09 Aug | MR329

Session Chair(s) Jingping XU, *Ocean University of China*
Jingpu (Paul) LIU, *North Carolina State University*

08:30 OS08-A013
OS08-D3-AM1-329-001
Invited
Recent Sedimentation in the East China Sea Inner Shelf and its Response to Natural Environment Change and Human Activities
Anchun LI[1#+], Kaidi ZHANG[1]
[1]Chinese Academy of Sciences

08:50 OS08-A027
OS08-D3-AM1-329-002
Long Term In-situ Observation of Dynamic Evolution of Bottom Boundary Layers in Yellow River Estuary
Mingzheng WEN[1#+], Yonggang JIA[1], Shaotong ZHANG[1]
[1]Ocean University of China

09:05 OS08-A005
OS08-D3-AM1-329-003
An Analysis of Sediment Dynamics on Large-Scale Clear Saline Water Dominating the Sea Area Off the Qinhuangdao All Year Round
Chongguang PANG[1#+]
[1]Chinese Academy of Sciences

09:20 OS08-A002
OS08-D3-AM1-329-004
The Role of Tidal Asymmetry in Regulating Estuarine Sedimentation and Morphology
Daidu FAN[1#+]
[1]Tongji University

09:35
OS08-D3-AM1-329-005
OS08-A025
Variations in Quantity, Composition and Grain Size of Changjiang Sediment Discharging Into the Sea in Response to Human Activities
Hui SHENG[1#+], Jianhua GAO[1]
[1]*Nanjing University*

09:50
OS08-D3-AM1-329-006
OS08-A008
Interaction Between Saltmarsh Vegetation Patches and Sediment Dynamics Under a High Sediment Supply
Yining CHEN[1#+], Yan LI[2], Tinglu CAI[1]
[1]*State Oceanic Administration,* [2]*Xiamen University*

10:05
OS08-D3-AM1-329-007
OS08-A012
Effects of Vertical Varied Vegetation Density on Wave Attenuation and Turbulence Energy
Sha LOU[1+], Shuguang LIU[1#], Ming CHEN[1], Guihui ZHONG[1]
[1]*Tongji University*

Session Chair(s)
Daidu FAN, *Tongji University*
Ping YIN, *Qingdao Institute of Marine Geolgoy*
Chongguang PANG, *Chinese Academy of Sciences*

16:00
OS08-D3-PM2-329-008
OS08-A028
The Mekong River Delta's Past and Recent Shoreline Shanges
Jingpu (Paul) LIU[1#+]
[1]*North Carolina State University*

16:15
OS08-D3-PM2-329-009
OS08-A021
Influence of Wind, Sedimentary Discharge and Some Hydrological Factors on the Coastal Zone in the Red River Delta, Vietnam
Vuong BUI VAN[1#+]
[1]*Vietnam Academy of Science and Technology*

16:30
OS08-D3-PM2-329-010
OS08-A017
Sedimentary Systems Evolution in the East China Sea Shelf Since the Last Glacial Maximum (LGM): A New Hypothesis
Jianfeng SU[1#+], Daidu FAN[1]
[1]*Tongji University*

16:45
OS08-D3-PM2-329-011
OS08-A010
Morphological Evolution of the Active Yellow River (Huanghe) Delta Lobe (1976-2013): Dominance of Flux and Composition of Riverine Sediment
Xiao WU[1+], Houjie WANG[1#], Jingping XU[1]
[1]*Ocean University of China*

17:00
OS08-D3-PM2-329-012
OS08-A006
Morphodynamics of Inside Sandbar in a Convergent Estuary: With Emphasis on the Roles of River Discharge and Coriolis Effects
Dongfeng XIE[1#+]
[1]*Zhejiang Institute of Hydraulics and Estuary*

17:15
OS08-D3-PM2-329-013
OS08-A026
Contribution of Wave-Induced Pore Pressure Build-Ups to Sediment Re-Suspension
Shaotong ZHANG[1#+], Yonggang JIA[1], Yaqi ZHANG[1]
[1]*Ocean University of China*

OS18 / Advances in Oceanic Data Assimilation Methodologies, Forecasting and Reanalysis

Wed - 09 Aug | MR328

Session Chair(s) Yasumasa MIYAZAWA, *Japan Agency for Marine-Earth Science and Technology*

08:30 OS18-A014
OS18-D3-AM1-328-001 Invited
Four-Dimensional Variational Ocean Reanalysis: A 30-Year High-Resolution Dataset in the Western North Pacific (FORA-WNP30)
Norihisa USUI[1#+], Tsuyoshi WAKAMATSU[2], Yusuke TANAKA[2], Nariaki HIROSE[1], Takahiro TOYODA[1], Shiro NISHIKAWA[2], Yosuke FUJII[1], Yasushi TAKATSUKI[1], Hiromichi IGARASHI[2], Haruka NISHIKAWA[2], Yoichi ISHIKAWA[2], Tsurane KURAGANO[1], Masafumi KAMACHI[2]
[1]Japan Meteorological Agency, [2]Japan Agency for Marine-Earth Science and Technology

08:45 OS18-A005
OS18-D3-AM1-328-002
Seasonal Predictions with the Norwegian Climate Prediction Model
Yiguo WANG[1#], Stephanie GLEIXNER[2], Noel KEENLYSIDE[2], Francois COUNILLON[1], Shunya KOSEKI[2+], Thomas TONIAZZO[3]
[1]Nansen Environmental and Remote Sensing Center, [2]University of Bergen, [3]Uni Research Klima

09:00 OS18-A002
OS18-D3-AM1-328-003
Data Assimilation for Massive Autonomous Systems Based on a Second-Order Adjoint Method
Hiromichi NAGAO[1#+], Shin-Ichi ITO[1]
[1]The University of Tokyo

09:15 OS18-A016
OS18-D3-AM1-328-004
Applications of Ocean Data Assimilation into a Coupled Climate Model to East Asian Summer Monsoon Simulations
Renping LIN[1+], Jiang ZHU[1#], Fei ZHENG[1]
[1]Chinese Academy of Sciences

09:30 OS18-A004
OS18-D3-AM1-328-005
A Pearl River Estuary Salinity Observing System Constructed by LEnKF Combined with Gappy POD Method : A Twin Experiment
Bo LIANG[1#+], Shiyu LI[1], Jia-Tang HU[1]
[1]Sun Yat-sen University

09:45 OS18-A015
OS18-D3-AM1-328-006
Performance of the New Version of Experimental Platform of Marine Environment Forecasting (EPMEF) for South China Sea
Yineng LI[1#+], Shiqiu PENG[1], Yuhang ZHU[1], Pinqiang WANG[1], Fenghua ZHOU[1], Jing YAN[1]
[1]Chinese Academy of Sciences

10:00 OS18-A013
OS18-D3-AM1-328-007
Reanalysis/Forecast of the North Western Pacific Ocean Utilizing the AVHRR/ MODIS/ Himawari-8 Sea Surface Temperature Data
Yasumasa MIYAZAWA[1#+], Sergey VARLAMOV[1], Toru MIYAMA[1], Tsutomu HIHARA[1], Miho ISHIZU[1], Xinyu GUO[2]
[1]Japan Agency for Marine-Earth Science and Technology, [2]Ehime University

10:15
OS18-D3-AM1-328-008
OS18-A011
A Multiscale Data Assimilation Algorithm for Coastal Ocean Applications
Zhijin LI[1#+]
[1]*Jet Propulsion Laboratory, California Institute of Technology*

OS22 / Sea-level Changes from Minutes to Millennia

Wed - 09 Aug | MR329

Session Chair(s) Adam SWITZER, *Nanyang Technological University*
Charles LEMCKERT, *Griffith University*

11:00
OS22-D3-AM2-329-001
OS22-A002
First Study of Coral Microatolls to Reconstruct the Relative Sea-Level Changes Over the Past Centuries in the Ryukyu Arc
Jennifer WEIL-ACCARDO[1#+], Kenji SATAKE[1], Nathalie FEUILLET[2], Tomoko GOTO[1], Hajime KAYANNE[1], Jean-Marie SAUREL[2], Noelynna RAMOS[3], Tomoya HARADA[1], Kazuhisa GOTO[4], Sowa KOHKI[5], Mamoru NAKAMURA[6]
[1]*The University of Tokyo,* [2]*Institut de Physique du Globe de Paris,* [3]*University of the Philippines Diliman,* [4]*Tohoku University,* [5]*Toho University,* [6]*University of the Ryukyus*

11:15
OS22-D3-AM2-329-002
OS22-A005
Relative Sea Level Proxy Records from Fossil Coral Microatolls in Western Borneo, South China Sea: Sea-Level Stability by 7 Ka and Possible Holocene Faulting
Jedrzej MAJEWSKI[1#+], Adam SWITZER[1], Peter PARHAM[2], Sarah BRADLEY[3], Jeremy PILE[4], Ben HORTON[1,5], Aron MELTZNER[1], Xianfeng WANG[1], Hong CHIANG[6], Tyiin CHIEW[7], Moritz MULLER[8], Aazani MUJAHID[7], Jani TANZIL[1]
[1]*Nanyang Technological University,* [2]*National University of Malaysia,* [3]*Delft University of Technology,* [4]*Bournemouth University,* [5]*Rutgers University,* [6]*National Taiwan University,* [7]*Universiti Malaysia Sarawak,* [8]*Swinburne University*

11:30
OS22-D3-AM2-329-003
OS22-A015
Periodic Relative Sea-Level Changes During the Last 4000 Years
Timothy SHAW[1#+], Ben HORTON[1,2], Andrew KEMP[3], Niamh CAHILL[4], Michael MANN[5], Simon ENGELHART[6], Robert KOPP[1], Matthew BRAIN[7], Jennifer CLEAR[8], Reide CORBETT[9], Daria NIKITINA[10], Ane GARCÍA-ARTOLA[1,2], Jennifer WALKER[1]
[1]*Rutgers University,* [2]*Nanyang Technological University,* [3]*Tufts University,* [4]*University of Massachusetts Amherst,* [5]*Penn State University,* [6]*University of Rhode Island,* [7]*Durham University,* [8]*Hope University,* [9]*East Carolina University,* [10]*West Chester University*

11:45
OS22-D3-AM2-329-004
OS22-A019
Inception of a Global Atlas of Holocene Sea Levels
Nicole KHAN[1#], Alessio ROVERE[2], Simon ENGELHART[3], Ben HORTON[4,5+], Erica ASHE[4], Robert KOPP[4]
[1]*United States Geological Survey,* [2]*University of Bremen,* [3]*University of Rhode Island,* [4]*Rutgers University,* [5]*Nanyang Technological University*

12:00
OS22-D3-AM2-329-005
OS22-A020
Contribution of Internal Variability to the Dynamic Sea Level Changes in the Tropical Pacific During the Recent Decades
Mohammad Hadi BORDBAR[1#+], Thomas MARTIN[1], Mojib LATIF[1], Wonsun PARK[1]
[1]*GEOMAR Helmholtz Centre for Ocean Research Kiel*

Session Chair(s) Noelynna RAMOS, *University of the Philippines-Diliman*
Adam DEVLIN, *Chinese University of Hong Kong*

14:00 OS22-A021
OS22-D3-PM1-329-006 Shallow Water Tides, Tide Gauges, and Satellite Altimetry in the Maritime Continent
Paul HARTLIPP[1#+], Angela MAHARAJ[1], Zlatko JOVANOSKI[1]
[1]University of New South Wales

14:15 OS22-A009
OS22-D3-PM1-329-007 Sedimentological Recorders of the 2013 Typhoon Haiyan Storm Surge from Contrasting Philippine Coastal Landscapes
Janneli Lea SORIA[1#+], Adam SWITZER[1], Jessica PILARCZYK[2], Fernando SIRINGAN[3], Hui TANG[4], Robert WEISS[5], Nicole KHAN[6], Hermann FRITZ[7], Michelle MANGLICMOT[8], Adonis GALLENTES[8], Annie LAU[9], Amanda Yee Lin CHEONG[1], Tracy KOH[1]
[1]Nanyang Technological University, [2]University of Southern Mississippi, [3]University of the Philippines, [4]Virginia Polytechnic Institute and State University, [5]Virginia Tech, [6]United States Geological Survey, [7]Georgia Institute of Technology, [8]University of the Philippines Diliman, [9]University of Queensland

14:30 OS22-A022
OS22-D3-PM1-329-008 Anomalous Tidal Behavior in the South China Sea and Hong Kong with Implications for Peak Water Levels
Adam DEVLIN[1#+], Jiayi PAN[1]
[1]Chinese University of Hong Kong

14:45 OS22-A011
OS22-D3-PM1-329-009 Relative Sea Level Changes and Historical Wave Events in Southwest Luzon Island, Philippines Constrained from 230-th-Dated Corals
Kathrine MAXWELL[1#+], Noelynna RAMOS[1], Hiroyuki TSUTSUMI[2], Chuan-Chou SHEN[3]
[1]University of the Philippines Diliman, [2]Kyoto University, [3]National Taiwan University

15:00 OS22-A018
OS22-D3-PM1-329-010 Differentiating Flood (2015) and Fluvial Deposits from Adyar River and Coovum River, Chennai, India
Anandasabari KARTHIKEYAN[1#+], Srinivasalu SESHACHALAM[2], Krishna Kumar RAMACHANDRAN[3]
[1]Jawaharlal Nehru Centre for Advance Scientific Research, [2]Anna University, [3]National Geophysical Research Institute

PS04 / Microwave and Infrared Remote Sensing of Solar System Objects

Wed - 09 Aug | MR310

Session Chair(s)
Scott BOLTON, *South West Research Institute*
Yi-Jehng KUAN, *National Taiwan Normal University*

11:00
PS04-D3-AM2-310-001
Invited
PS04-A021
Determining the Depth of Atmospheric and Interior Flows on Jupiter from the Juno Gravity Measurements
Eli GALANTI[1#+], Yohai KASPI[1]
[1]Weizmann Institute of Science

11:15
PS04-D3-AM2-310-002
Invited
PS04-A005
Radio Occultation Experiment for Future Indian Space Missions
Varun SHEEL[1#+], Jayesh PABARI[1]
[1]Physical Research Laboratory

11:30
PS04-D3-AM2-310-003
PS04-A020
A THz Small Spacecraft for Oxygen and Water Observation in Mars Atomosphere
Yasuko KASAI[1#+], Richard LARSSON[1], Shinichi NAKASUKA[2], Hiroyuki MAEZAWA[3], Toshiyuki NISHIBORI[4], Takeshi MANABE[3], Takeshi KURODA[1], Akifumi WACHI[2]
[1]National Institute of Information and Communications Technology, [2]The University of Tokyo, [3]Osaka Prefecture University, [4]Japan Aerospace Exploration Agency

11:45
PS04-D3-AM2-310-004
PS04-A004
The Herschel Catalogue of Solar System Object Observations
Mark KIDGER[1#+], Cristina ROMERO[2], Jürgen OBERST[2], Miriam RENGEL[1]
[1]European Space Astronomy Centre, [2]Technische Universität Berlin

12:00
PS04-D3-AM2-310-005
PS04-A009
Tracing the Composition of Titan Stratosphere at Far-Infrared and Sub-Millimetre Waves: A Successful Case of Study of Cross-Comparisons Between Space and Ground-Based Platforms
Miriam RENGEL[1,2#+], Paul HARTOGH[1]
[1]Max Planck Institute for Solar System Research, [2]European Space Astronomy Centre

12:15
PS04-D3-AM2-310-006
PS04-A010
Status of JUICE-SWI
Paul HARTOGH[1#+]
[1]Max Planck Institute for Solar System Research

Session Chair(s)
Paul HARTOGH, *Max Planck Institute for Solar System Research*
Yasuko KASAI, *National Institute of Information and Communications Technology*

14:00
PS04-D3-PM1-310-007
PS04-A003
The Diviner Lunar Radiometer: A Cornerstone to Thermal Infrared Studies of Airless Bodies
Benjamin GREENHAGEN[1#+], David PAIGE[2]
[1]Johns Hopkins University Applied Physics Laboratory, [2]University of California, Los Angeles

14:15 PS04-A008
PS04-D3-PM1-310-008 Thermal Infrared Imaging of Rocky Bodies in the Solar System: Earth and Moon Observations by TIR on Hayabusa2
Tatsuaki OKADA[1#+], Tetsuya FUKUHARA[2], Satoshi TANAKA[1], Takehiko ARAI[3], Hirohide DEMURA[4], Hiroki SENSHU[5], Naoya SAKATANI[6], Yoshiko OGAWA[4], Toru KOUYAMA[7], Makoto TAGUCHI[2]
[1]Japan Aerospace Exploration Agency, [2]Rikkyo University, [3]National Institute of Environmental Studies, [4]The University of Aizu, [5]Chiba Institute of Technology, [6]Meiji University, [7]National Institute of Advanced Industrial Science and Technology

14:30 PS04-A017
PS04-D3-PM1-310-009 Submillimeter Observations of the Dwarf Planet Ceres
Yi-Jehng KUAN[1#+], Yo-Ling CHUANG[1], Iain M. COULSON[2], Wei-Ling TSENG[1], Ming-Chi CHUNG[1], Ya-Wen YO[1]
[1]National Taiwan Normal University, [2]East Asian Observatory

14:45 PS04-A014
PS04-D3-PM1-310-010 Study on 3D Radiation Transfer Model in the Coma of 67P / CG Using Lime
Yuhui ZHAO[1#+], Ladislav REZAC[2], Paul HARTOGH[2]
[1]Purple Mountain Observatory, Chinese Academy of Sciences, [2]Max Planck Institute for Solar System Research

15:00 PS04-A006
PS04-D3-PM1-310-011 Is Near-Surface Ice the Driver of Dust Activity on 67P/CG?
Ladislav REZAC[1#+], Yuri SKOROV[1], Paul HARTOGH[1], Horst Uwe KELLER[1]
[1]Max Planck Institute for Solar System Research

15:15 PS04-A015
PS04-D3-PM1-310-012 Spatially Resolved Evolution of the Local H2O Production Rates of Comet 67P/Churyumov-Gerasimenko from MIRO/Rosetta
David MARSHALL[1#+], Paul HARTOGH[1], Ladislav REZAC[1]
[1]Max Planck Institute for Solar System Research

PS07 / Outer Planetes and Their Satellites

Wed - 09 Aug | MR310

Session Chair(s) Sushil ATREYA, *University of Michigan*
Jun KIMURA, *University of Osaka*

08:30 PS07-A014
PS07-D3-AM1-310-001 Invited Science Highlights from Cassini's Grand Finale
Linda SPILKER[1#+], Scott EDGINGTON[2], Nicolas ALTOBELLI[3]
[1]California Institute of Technology, [2]Jet Propulsion Lab / California Institute of Technology, [3]European Space Agency

08:50 PS07-A012
PS07-D3-AM1-310-002 Invited Structure and Dynamics of Saturn's Rings
Larry ESPOSITO[1#+]
[1]University of Colorado Boulder

09:10 PS07-A005
PS07-D3-AM1-310-003 Invited The Saturnian Near-Ring Plasma Environment
Wei-Ling TSENG[1#+], Robert E. JOHNSON[2], Meredith ELROD[3]
[1]National Taiwan Normal University, [2]University of Virginia, [3]NASA Goddard Space Flight Center

09:25
PS07-D3-AM1-310-004
Invited

PS07-A002
The Cassini/Mimi First Energetic Particle Results of the Grand Finale Orbits
Peter KOLLMANN[1#+], Don MITCHELL[1], Elias ROUSSOS[2], Norbert KRUPP[2], Douglas HAMILTON[3], Chris PARANICAS[1]
[1]Johns Hopkins University Applied Physics Laboratory, [2]Max Planck Institute for Solar System Research, [3]University of Maryland

09:40
PS07-D3-AM1-310-005
Invited

PS07-A015
Energetic Electron Observations fom Cassini/MIMI During the F-ring and the First Proximal Orbits
Elias ROUSSOS[1#+], Norbert KRUPP[1], Peter KOLLMANN[2], Chris PARANICAS[2], Don MITCHELL[2], Stamatios KRIMIGIS[2]
[1]Max Planck Institute for Solar System Research, [2]Johns Hopkins University Applied Physics Laboratory

09:55
PS07-D3-AM1-310-006

PS07-A021
Detection of Charged Nano-Grains in the Near Proximity of the Jovian and Saturnian Rings
Wing-Huen IP[1#+], Kun Cing PAN[1], Hsiang-Wen HSU[2], Mihaly HORANYI[2]
[1]National Central University, [2]University of Colorado Boulder

10:10
PS07-D3-AM1-310-007

PS07-A017
Properties of Plasmoids in Saturn's Magnetotail: Global Simulations and Comparisons with Cassini Observations
Xianzhe JIA[1#+], Margaret KIVELSON[2]
[1]University of Michigan, [2]University of California, Los Angeles

Session Chair(s) Athena COUSTENIS, *Observatorie de Meudon*

16:00
PS07-D3-PM2-310-008

PS07-A007
Formation of the Ice Giant Planets: Compositional Constraints and Challenges
Sushil ATREYA[1#+], Joong HYUN-IN[1], Mark HOFSTADTER[2]
[1]University of Michigan, [2]Jet Propulsion Laboratory, California Institute of Technology

16:15
PS07-D3-PM2-310-009
Invited

PS07-A001
Satellite Formation Around Giant Planets
Sebastien CHARNOZ[1#+]
[1]Universite Paris Diderot

16:30
PS07-D3-PM2-310-010

PS07-A022
Seasonal Evolution of Organic Chemistry in Titan's Stratosphere from Cassini CIRS
Athena COUSTENIS[1#+], Donald JENNINGS[2], Richard ACHTERBERG[3], Panayiotis LAVVAS[4], Conor NIXON[2], Georgios BAMPASIDIS[5], F. Michael FLASAR[2]
[1]Paris Observatory, [2]NASA Goddard Space Flight Center, [3]University of Maryland, [4]Universite Reims Champargne-Ardennes, [5]National and Kapodistrian University of Athens

16:45
PS07-D3-PM2-310-011

PS07-A023

Interesting Geologic Features on Titan Using Cassini VIMS Analysis and Atmospheric Contributions

Anezina SOLOMONIDOU[1#+], Athena COUSTENIS[2], Rosaly LOPES-GAUTIER[1], Michael MALASKA[1], Sébastien RODRIGUEZ[3], Pierre DROSSART[2], Michael JANSSEN[1], Bernard SCHMITT[4], Sylvain PHILIPPE[4], Kenneth LAWRENCE[1], Emmanuel BRATSOLIS[5], Katrin STEPHAN[6], Ralf JAUMANN[6], Robert H. BROWN[7], Alice LE GALL[8], Edward VILLANUEVA[1], Christos MATSOUKAS[9], Ashley SCHOENFELD[1]

[1]Jet Propulsion Laboratory, California Institute of Technology, [2]Paris Observatory, [3]CEA Saclay, [4]Joseph Fourier University, [5]National and Kapodistrian University of Athens, [6]German Aerospace Center (DLR), [7]University of Arizona, [8]Université de Versailles Saint-Quentin-en-Yvelines (UVSQ), [9]KTH-Royal Institute of Technology

17:00
PS07-D3-PM2-310-012
Invited

PS07-A010

Estimating Icy Satellite Oceanic Metabolic Potential from In Situ Gas Ratios

J. Hunter WAITE, JR.[1#+], Chris GLEIN[1], Christine RAY[2], Jonathan LUNINE[3], Rebecca PERRYMAN[1], Ben TEOLIS[1]

[1]Southwest Research Institute, [2]University of Texas San Antonio, [3]Corenll University

17:15
PS07-D3-PM2-310-013

PS07-A026

Is Thermal Convection Responsible for Polygonal Structures on Pluto's Surface?

Kenny VILELLA[1#+], Frederic DESCHAMPS[1]

[1]Academia Sinica

17:30
PS07-D3-PM2-310-014

PS07-A024

Thermal History and Stability of Subsurface Ocean in Pluto

Jun KIMURA[1#+], Shunichi KAMATA[2]

[1]Osaka University, [2]Hokkaido University

17:45
PS07-D3-PM2-310-015
Invited

PS07-A009

The Planned Europa Mission: The Next Step in Exploring Habitability of an Icy World

David SENSKE[1#+], Robert PAPPALARDO[1], Haje KORTH[2], Rachel KLIMA[2], Steven VANCE[1], Kate CRAFT[2]

[1]Jet Propulsion Laboratory, California Institute of Technology, [2]Johns Hopkins University Applied Physics Laboratory

ST05-15 / New and Recent Results on Radiation Belt and Inner Magnetosphere Physics

Wed - 09 Aug | MR308

Session Chair(s)

Allison JAYNES, *University of Colorado Boulder*
Ondrej SANTOLIK, *Institute of Atmospheric Physics, Czech Academy of Sciences, Czech Republic / Faculty of Mathematics and Physics, Charles University*

11:00
ST05-15-D3-AM2-308-001
Invited

ST05-15-A002
Geospace Exploration Project: Arase (ERG)
Yoshizumi MIYOSHI[1#+], Iku SHINOHARA[2], Takeshi TAKASHIMA[2], Kazushi ASAMURA[2], Nana HIGASHIO[2], Takefumi MITANI[2], Shoichiro YOKOTA[2], Satoshi KASAHARA[2], Yoich KAZAMA[3], Shiang-Yu WANG[3], Masafumi HIRAHARA[1], Yoshiya KASAHARA[4], Yasumasa KASABA[5], Satoshi YAGITANI[4], Ayako MATSUOKA[2], Hirotsugu KOJIMA[6], Yuto KATOH[5], Mitsuru HIKISHIMA[2], Kazuo SHIOKAWA[1], Kanako SEKI[7]
[1]Nagoya University, [2]Japan Aerospace Exploration Agency, [3]Academia Sinica, [4]Kanazawa University, [5]Tohoku University, [6]Kyoto University, [7]The University of Tokyo

11:20
ST05-15-D3-AM2-308-002
Invited

ST05-15-A006
Charged Particle Measurements in the Radiation Belt by ERG
Kazushi ASAMURA[1], Nana HIGASHIO[1], Masafumi HIRAHARA[2], Satoshi KASAHARA[3#+], Yoich KAZAMA[4], Haruhisa MATSUMOTO[1], Takefumi MITANI[1], Wataru MIYAKE[5], Yushi SUTO[3], Takeshi TAKASHIMA[1], Bo-Jhou WANG[4], Shiang-Yu WANG[4], Kazuhiro YAMAMOTO[6], Shoichiro YOKOTA[1]
[1]Japan Aerospace Exploration Agency, [2]Nagoya University, [3]The University of Tokyo, [4]Academia Sinica, [5]Tokai University, [6]Kyoto University

11:40
ST05-15-D3-AM2-308-003

ST05-15-A010
Studying Relativistic Particle Acceleration and Loss in Our Cosmic Backyard: Van Allen Probes Radiation Belt Exploration
Daniel BAKER[1#+]
[1]University of Colorado Boulder

11:55
ST05-15-D3-AM2-308-004

ST05-15-A001
Characteristics of Radiation Belt Electrons Revealed by Measurements of SAMPEX, CSSWE, and Van Allen Probes
Xinlin LI[1#+], Daniel BAKER[1], Hong ZHAO[1], Kun ZHANG[1], Allison JAYNES[1], Quintin SCHILLER[2], Shri KANEKAL[2], Berhard BLAKE[3], Michael TEMERIN[4]
[1]University of Colorado Boulder, [2]NASA Goddard Space Flight Center, [3]The Aerospace Corporation, [4]University of California, Berkeley

12:10
ST05-15-D3-AM2-308-005

ST05-15-A017
Drift and Drift-Bounce Resonance Between Ions and Poloidal Mode ULF Waves
Robert RANKIN[1#+], Chengrui WANG[1], Qiugang ZONG[2], Yongfu WANG[2]
[1]University of Alberta, [2]Peking University

Session Chair(s) Xinlin LI, *University of Colorado Boulder*

14:00
ST05-15-D3-PM1-308-006
ST05-15-A003
Recent Results from the Electric and Magnetic Field Instrument Suite and Integrated Science (EMFISIS) on the Van Allen Probes
Craig KLETZING[1#+]
[1]*The University of Iowa*

14:15
ST05-15-D3-PM1-308-007
Invited
ST05-15-A005
Van Allen Probe Measurements of EMIC Wave Detailed Properties and Electric Fields
Lauren BLUM[1#+], Oleksiy AGAPITOV[2], Anton ARTEMYEV[3], John BONNELL[4]
[1]*NASA Goddard Space Flight Center,* [2]*Space Sciences Laboratory,* [3]*University of California, Los Angeles,* [4]*University of California, Berkeley*

14:35
ST05-15-D3-PM1-308-008
ST05-15-A008
The Impressive Correlation Between Substorm Activity and the Rebuilding of Earth's Radiation Belts
Allison JAYNES[1#+], David MALASPINA[1], Veronica DIKE[2], Dan BAKER[1], Xinlin LI[1], Hong ZHAO[1], Shri KANEKAL[3]
[1]*University of Colorado Boulder,* [2]*University of New Mexico,* [3]*NASA Goddard Space Flight Center*

14:50
ST05-15-D3-PM1-308-009
Invited
ST05-15-A014
A Statistical Investigation of Plasmaspheric Plasma by Using Global GPS TEC Data
Qinghe ZHANG[1#+], Gun LI[2], Yanqiu REN[1], Yong WANG[1], John FOSTER[3], Michael LOCKWOOD[4], Shunrong ZHANG[3]
[1]*Shandong University,* [2]*University of Science and Technology of China,* [3]*Massachusetts Institute of Technology,* [4]*Rutherford-Appleton Laboratory*

15:10
ST05-15-D3-PM1-308-010
ST05-15-A004
Two-Point Measurements of Plasmaspheric Hiss by Van Allen Probes
Ondrej SANTOLIK[1,2#+], George HOSPODARSKY[3], William KURTH[3], Craig KLETZING[3]
[1]*Czech Academy of Sciences,* [2]*Charles University,* [3]*The University of Iowa*

ST06 / Origin, Eruption, Propagation and Space Weather Effect of Magnetic Flux Ropes

Wed - 09 Aug | MR308

Session Chair(s) Hongqiang SONG, *Shandong University*
Qiang HU, *University of Alabama in Huntsville*

08:30
ST06-D3-AM1-308-001
Invited
ST06-A007
Formation and Dynamics of the Solar Eruptive Flux Tube
Satoshi INOUE[1#+]
[1]*Institute for Space-Earth Environmental Research, Nagoya University*

08:45
ST06-D3-AM1-308-002
ST06-A011
Connection Between the CMEs in the Coronagraph and the MCs Near the Earth
Chenglong SHEN[1#+], Yuming WANG[1], Bin ZHUANG[1], Yutian CHI[1], Jiajia LIU[1]
[1]*University of Science and Technology of China*

09:00
ST06-D3-AM1-308-003
ST06-A004
The Origin of Solar Filament Plasma Inferred from In-situ Observations of Elemental Abundances
Hongqiang SONG[1#+], Yao CHEN[1]
[1]Shandong University

09:15
ST06-D3-AM1-308-004
Invited
ST06-A010
An Eruptive Hot-Channel Structure Observed at Metric Wavelength as a Moving Type-IV Solar Radio Burst
Yao CHEN[1#+], V. VASANTH[1]
[1]Shandong University

09:30
ST06-D3-AM1-308-005
Invited
ST06-A009
The Causes of Quasi-Homologous CMEs
Lijuan LIU[1+], Yuming WANG[1#], Rui LIU[1], Zhenjun ZHOU[1], Manuela TEMMER[2], Julia THALMANN[2], Jiajia LIU[1], Kai LIU[1], Quanhao ZHANG[1], Astrid VERONIG[2]
[1]University of Science and Technology of China, [2]University of Graz

09:45
ST06-D3-AM1-308-006
ST06-A008
CME Dynamics Using Stereo and Lasco Observations: The Relative Importance of Lorentz Forces and Solar Wind Drag
Nishtha SACHDEVA[1#+], Prasad SUBRAMANIAN[1], Angelos VOURLIDAS[2], Volker BOTHMER[3]
[1]Indian Institute of Science Education and Research, [2]Applied Physics Laboratory, [3]University of Göttingen

10:00
ST06-D3-AM1-308-007
ST06-A017
A Comparison Between the Geoeffectiveness of North-South and South-North Magnetic Clouds, and an Associated Prediction
Chin-Chun WU[1#+], Ronald LEPPING[2], Daniel BERDICHEVSKY[3], Kan LIOU[4]
[1]U.S. Naval Research Laboratory, [2]NASA Goddard Space Flight Center, [3]University of the District of Columbia, [4]Johns Hopkins University Applied Physics Laboratory

10:15
ST06-D3-AM1-308-008
ST06-A012
Detection, Characterization and Origination of Small-Scale Magnetic Flux Ropes
Jinlei ZHENG[1], Qiang HU[1#+]
[1]The University of Alabama in Huntsville

ST07 / The Wave Coupling Between the Lower Solar Atmosphere and Corona: MHD Approach

Wed - 09 Aug | MR309

Session Chair(s) Marcel GOOSSENS, *KU Leuven*

08:30
ST07-D3-AM1-309-001
Invited
ST07-A002
Impulsively Generated Kink Waves in Coronal Slabs as an Explanation for Large-Scale Streamer Waves
Bo LI[1#+], Hui YU[1], Mingzhe GUO[1]
[1]Shandong University

08:45
ST07-D3-AM1-309-002
ST07-A001
Mixed Dynamics and Resonant Absorption of Axisymetric MHD Waves
Marcel GOOSSENS[1#+], Tom VAN DOORSSELAERE[1], Daejung YU[1]
[1]KU Leuven

09:00 ST07-A004
ST07-D3-AM1-309-003
Peculiar EUV Waves and Their Diagnostics Capability
Abhishek Kumar SRIVASTAVA[1#+]
[1]Indian Institute of Technology (BHU)

09:15 ST07-A009
ST07-D3-AM1-309-004
Invited
Slow Magnetoacoustic Oscillations of Coronal Loops
Valery NAKARIAKOV[1#+]
[1]University of Warwick

09:30 ST07-A015
ST07-D3-AM1-309-005
Dissipation of Alfvén Wave Through Ion-neutral Interactions in the Solar Chromosphere
Damien PRZYBYLSKI[1#], Sergiy SHELYAG[2+]
[1]Max Planck Institute for Solar System Research, [2]University of Northumbria

09:45 ST07-A006
ST07-D3-AM1-309-006
2-3D Numerical Model of Jet Formation in Solar Atmosphere
José Juan GONZÁLEZ[1#+], Viktor FEDUN[2], Gary VERTH[2], Sergiy SHELYAG[3], Stephane REGNIER[3], Francisco GUZMÁN[1]
[1]Universidad Michoacana de San Nicolás de Hidalgo, [2]The University of Sheffield, [3]University of Northumbria

10:00 ST07-A005
ST07-D3-AM1-309-007
High-Resolution Techniques for Magnetohydrodynamic Seismology of the Solar Atmosphere
David PASCOE[1#+]
[1]University of Warwick

10:15 ST07-A014
ST07-D3-AM1-309-008
Nonlinear Damping of Transverse Oscillations in Coronal Loops
Norbert MAGYAR[1#+], Tom VAN DOORSSELAERE[1]
[1]KU Leuven

ST08 / Sun-earth System Response to Extreme Solar and Seismic Events

Wed - 09 Aug | MR308

Session Chair(s) Nanan BALAN, *University of Sheffield*
Zuo XIAO, *Peking University*

16:00 ST08-A003
ST08-D3-PM2-308-001
Invited
The Solar Storms July 2012: Examining Extreme Space Weather Scenarios
Daniel BAKER[1#+]
[1]University of Colorado Boulder

16:20 ST08-A005
ST08-D3-PM2-308-002
Invited
Geospace Extreme Space Weather Events
Natalia BUZULUKOVA[1,2#+]
[1]NASA Goddard Space Flight Center, [2]University of Maryland

16:35 ST08-A014
ST08-D3-PM2-308-003
Invited
Modeling Extreme Solar Energetic Particle Events Using Physics-Based Models
Gary ZANK[1#+], Gang LI[1], Olga VERKHOGLYADOVA[2], Junxiang HU[1]
[1]The University of Alabama in Huntsville, [2]Jet Propulsion Laboratory, California Institute of Technology

16:50
ST08-D3-PM2-308-004
Invited

ST08-A016
Superdarn Observations of Ionospheric Disturbances Triggered by Big Earthquakes
Nozomu NISHITANI[1#+], Pavlo PONOMARENKO[2]
[1]Nagoya University, [2]University of Saskatchewan

17:05
ST08-D3-PM2-308-005

ST08-A017
Magnetosphere-Ionosphere-Thermosphere Coupling During Large Magnetic Storms and Superstorms: Enhanced Molecular Ion Outflows and Hot Oxygen Atom Production
Andrew YAU[1#+], Victoria FOSS[1], Bernard SHIZGAL[2]
[1]University of Calgary, [2]University of British Columbia

17:20
ST08-D3-PM2-308-006

ST08-A011
A Modeling Study of Global Ionospheric and Thermospheric Responses to Extreme Solar Flare
Huijun LE[1#+], Libo LIU[1], Zhipeng REN[1], Yiding CHEN[2], Hui ZHANG[1], Weixing WAN[1]
[1]Chinese Academy of Sciences, [2]Institute of Geology and Geophysics, Chinese Academy of Sciences

17:35
ST08-D3-PM2-308-007

ST08-A012
Ionospheric Solar Activity Effects of the Mid-Latitude Trough and the Plasmapause Probed by Demeter During 2006-2009
Jann-Yenq (Tiger) LIU[1#+], Chao-Yen CHEN[1]
[1]National Central University

17:50
ST08-D3-PM2-308-008

ST08-A007
Effect of Equatorial Electrodynamics and Lower Atmospheric Forcing on Optical Neutral Dayglow Emission as a Function of Solar Activity
Duggirala PALLAMRAJU[1#+], Deepak KARAN[1]
[1]Physical Research Laboratory

ST22 / Use of Nano/microsatellites for Solar-terrestrial Studies

Wed - 09 Aug | MR309

Session Chair(s) Kyoung Wook MIN, *Korea Advanced Institute of Science and Technology*

16:00
ST22-D3-PM2-309-001

ST22-A001
Small Satellite Constellation to Study Ionosphere Precursor Due to Earthquake
Koichiro OYAMA[1,2#+]
[1]National Cheng Kung University, [2]Asia Space Environment Research Consortium

16:15
ST22-D3-PM2-309-002

ST22-A003
The Cubesat Mission for Studying Solar Particles
Mihir DESAI[1#+]
[1]Southwest Research Institute

16:30
ST22-D3-PM2-309-003
Invited

ST22-A004
The Snipe (Small Scale Magnetospheric Ionospheric Plasma Experiments) Mission
Jaejin LEE[1#+], Young-Sil KWAK[1], Junga HWANG[1], Jaeheung PARK[1], Jongdae SOHN[1]
[1]Korea Astronomy and Space Science Institute

16:45 ST22-A005
ST22-D3-PM2-309-004 Problems Associated with Ionospheric Electron Measurements Onboard Cubesats
Invited Hui-Kuan FANG[1#+], K. OYAMA[1], Alfred B. CHEN[1]
[1]National Cheng Kung University

17:00 ST22-A010
ST22-D3-PM2-309-005 Micro/Nano/Pico-Satellite Challenge Towards Science Applications - History of Japanese Activities and Future Vision
Invited Shinichi NAKASUKA[1#+]
[1]The University of Tokyo

17:15 ST22-A011
ST22-D3-PM2-309-006 The Experience of Designing the International University Microsatellite
Oleg BREKHOV[1#+], Pavel ZHDANOV[1]
[1]Moscow Aviation Institute (National Research University)

17:30 ST22-A013
ST22-D3-PM2-309-007 Upper Atmospheric Dynamics Through Forcing from Below & Above with Special Reference to Magnetic Storm: Need of Multi-Sensor Satellite Observations
Devi MINAKSHI[1#+], Ananda BARBARA[1], Koichiro OYAMA[2,3], Anna DEPUEVA[4], Ya Yu RUZHIN[4]
[1]Gauhati University, [2]National Cheng Kung University, [3]Asia Space Environment Research Consortium, [4]IZMIRAN

17:45 ST22-A015
ST22-D3-PM2-309-008 Study of the Vertical TEC in Tropical Region with Velox-CI Data
Invited Wending YAN[1#+], Bingxuan LI[1], Benjamin LIM[1]
[1]Nanyang Technological University

ST26-27 / General Session for Upper Atmosphere and Ionosphere

Wed - 09 Aug | MR309

Session Chair(s) Wai-Leong TEH, *Universiti Kebangsaan Malaysia*

11:00 ST26-27-A008
ST26-27-D3-AM2-309-001 The Role of Substorms During Storm Time Over Low Latitudes
Debrup HUI[1#], Dibyendu CHAKRABARTY[1+]
[1]Physical Research Laboratory

11:15 ST26-27-A005
ST26-27-D3-AM2-309-002 Modeling the Ionospheric Electric Fields Using Coupled Thermosphere-Ionosphere Data Assimilation
Charles LIN[1#+], Chia-Hung CHEN[1], Tomoko MATSUO[2]
[1]National Cheng Kung University, [2]University of Colorado Boulder

11:30 ST26-27-A012
ST26-27-D3-AM2-309-003 Ionospheric Responses to Geomagnetic Storms in the Equatorial Region Over Malaysia
Wai-Leong TEH[1#+], W. S. CHEN[2], Mardina ABDULLAH[1]
[1]Universiti Kebangsaan Malaysia, [2]Chien Hsin University of Science and Technology

11:45 ST26-27-A017
ST26-27-D3-AM2-309-004 Thermosphere and Ionosphere Coupling Viewed from TIMED/GUVI Observations
Yongliang ZHANG[1#+], Larry PAXTON[1]
[1]Johns Hopkins University

Session Chair(s) Zahra BOUYA, *Space Weather Services - The Australian Bureau of Meteorology*
Mario BISI, *Science & Technology Facilities Council*

14:00
ST26-27-D3-PM1-309-005
ST26-27-A001
Global Observation of Sporadic E Layer Properties from GPS Radio Occultation Measurements
Christina ARRAS[1#+], Jens WICKERT[1]
[1]GFZ Potsdam

14:15
ST26-27-D3-PM1-309-006
ST26-27-A004
Longitudinal Variation of Equatorial Spread F in Southeast Asia
Prayitno ABADI[1#+], Yuichi OTSUKA[1], Kazuo SHIOKAWA[1], Hiroyuki SHINAGAWA[2]
[1]Nagoya University, [2]National Institute of Information and Communications Technology

14:30
ST26-27-D3-PM1-309-007
ST26-27-A018
First Three Dimensional Waves in the Daytime Obtained from Dayglow Emissions and Their Comparison with Those Derived from Ionospheric Measurements
Duggirala PALLAMRAJU[1#+], Deepak KARAN[1], Subir MANDAL[1], Ravindra SINGH[1]
[1]Physical Research Laboratory

SE09 / Earth Rotation and Reference Frame

Wed - 09 Aug | MR327

Session Chair(s) Jianli CHEN, *University of Texas at Austin*
Richard GROSS, *NASA Jet Propulsion Laboratory*

08:30
SE09-D3-AM1-327-001
Invited
SE09-A002
Coseismic Influences of Great Earthquakes on the Polar Drift in the 21st Century
Benjamin Fong CHAO[1#+]
[1]Academia Sinica

08:50
SE09-D3-AM1-327-002
Invited
SE09-A004
Operational Simulation of Short-Term Predictions of Earth Rotation Excitation
Maik THOMAS[1#+], Robert DILL[1], Henryk DOBSLAW[1]
[1]GFZ Helmholtz Centre Potsdam

09:10
SE09-D3-AM1-327-003
Invited
SE09-A005
Earth's Polar Motion Excited by the Convective Outer Core from Numerical Geodynamo Simulations
Weijia KUANG[1#+]
[1]NASA Goddard Space Flight Center

09:30
SE09-D3-AM1-327-004
SE09-A001
Towards More Frequent Updates of the ITRF
Richard GROSS[1#+], Claudio ABBONDANZA[1], T. Mike CHIN[1], Mike HEFLIN[1], Jay PARKER[1], Benedikt SOJA[1], Xiaoping WU[1]
[1]Jet Propulsion Laboratory, California Institute of Technology

09:45
SE09-D3-AM1-327-005
SE09-A007
International Laser Ranging Service: Recent Progress and Future Challenges
Michael PEARLMAN[1#+], Giuseppe BIANCO[2], Stephen MERKOWITZ[3], Carey NOLL[3], Erricos PAVLIS[4], Victor SHARGORODSKY[5], Zhang ZHONGPING[6]
[1]Harvard-Smithsonian Center for Astrophysics, [2]Agenzia Spaziale Italiana, [3]NASA Goddard Space Flight Center, [4]University of Maryland, Baltimore County, [5]Joint-Stock Company "Research-and-Production Corporation "Precision Systems and Instruments", [6]Shanghai Astronomical Observatory

10:00
SE09-D3-AM1-327-006
SE09-A010
Earth Rotation in Sight of Climate Modulations
Leonid ZOTOV[1#+], Nikolay SIDORENKOV[2], Christian BIZOUARD[3]
[1]Higher School of Economics, Russia, [2]Hydrometcenter of Russia, [3]Paris Observatory

10:15
SE09-D3-AM1-327-007
SE09-A003
Multi-Sensor Monitoring of Long-Term Polar Motion
Jianli CHEN[1#+]
[1]University of Texas at Austin

SE14 / Geophysical Investigations in Geotechnical Engineering

Wed - 09 Aug | MR327

Session Chair(s) Ku TAESEO, *National University of Singapore*
Chih-Ping LIN, *National Chiao Tung University*

16:00
SE14-D3-PM2-327-001
SE14-A010
Stress-Induced Borehole Breakout in Sedimentary Rocks
Kang DUAN[1+], Yinlin JI[1], Wei WU[1#]
[1]Nanyang Technological University

16:15
SE14-D3-PM2-327-002
Invited
SE14-A009
Seismic Impedance Reconstruction Using Speckle Correlations in Random Media
Yunyue LI[1#+]
[1]National University of Singapore

16:30
SE14-D3-PM2-327-003
Invited
SE14-A006
Uncertainties in Site Characterization Using Surface Wave Methods and Their Consequences Over Seismic Site Response
Ravi S. JAKKA[1#+]
[1]Indian Institute of Technology Roorkee

16:45
SE14-D3-PM2-327-004
SE14-A004
Site Characterization and Site Amplification Studies for Strong Motion Recording Stations of Kumaun Region of Uttarakhand
Bhavesh PANDEY[1#+], Ravi S. JAKKA[2], Ashok KUMAR[2], Mukat SHARMA[2]
[1]Indian Institute of Technology, [2]Indian Institute of Technology Roorkee

17:00
SE14-D3-PM2-327-005
Invited
SE14-A007
Integrating Engineering Geophysics into Dam's Assessment
Chih-Ping LIN[1#+], Chun-Hung LIN[1], Po-Ling WU[1], Hsin-Chang LIU[1], Chih-Chung CHUNG[2]
[1]National Chiao Tung University, [2]National Central University

17:15
SE14-D3-PM2-327-006
SE14-A002
Seismic Site Characterization of Roorkee for Deep Soil
Priyanka SHARMA[1#+], V. A. SAWANT[1]
[1]Indian Institute of Technology Roorkee

17:30
SE14-D3-PM2-327-007
SE14-A003
Estimation of Bedrock Depth for a Part of Garhwal Himalayas Using Two Different Geophysical Techniques
Mukat SHARMA[1#+]
[1]Indian Institute of Technology Roorkee

SE20 / Tephrochronology and Lake Studies of Environmental Change

Wed - 09 Aug | MR311

Session Chair(s) Caroline BOUVET DE MAISONNEUVE, *Nanyang Technological University*
Gouramanis CHRISTOS, *National University of Singapore*

14:00
SE20-D3-PM1-311-001
SE20-A001
Occurrence, Nature and Lithological Architecture of Toba Ash in Quaternary Sediments of Purna Alluvial Basin, Central India
Ashok K. SRIVASTAVA[1#+], Ajab SINGH[1]
[1]SGB Amravati University

14:15 SE20-A006
SE20-D3-PM1-311-002 Invited
The Towuti Drilling Project and the Challenges in Reconstructing the Climate and Environmental History of Central Indonesia
Satria BIJAKSANA[1#+], James RUSSELL[2], Hendrik VOGEL[3], Martin MELLES[4]
[1]Institut Teknologi Bandung, [2]Brown University, [3]University of Bern, [4]University of Cologne

14:30 SE20-A009
SE20-D3-PM1-311-003
Application of Surface Related Multiple Elimination (SRME) to Enhance Seismic Resolutions: Case Study, Towuti Lake, South Sulawesi Indonesia
Abdul HAFIDZ[1#+], Satria BIJAKSANA[1], Wahyu TRIYOSO[1], James RUSSELL[2], Nigel WATTRUS[3], Hendrik VOGEL[4]
[1]Institut Teknologi Bandung, [2]Brown University, [3]Large Lakes Observatory, [4]University of Bern

14:45 SE20-A010
SE20-D3-PM1-311-004
Magnetic Characteristics of Surface Sediments from Lake Towuti, Sulawesi, Indonesia
Silvia FAJAR[1#+], Satria BIJAKSANA[1], Kartika KIRANA[1], Ida Bagus KRESNA[1], James RUSSELL[2], Hendrik VOGEL[3], Martin MELLES[4]
[1]Institut Teknologi Bandung, [2]Brown University, [3]University of Bern, [4]University of Cologne

15:00 SE20-A007
SE20-D3-PM1-311-005
Relative Magnetic Paleointensity Record from Lake Towuti Sediments During 60 KYR BP
Kartika KIRANA[1#+], Satria BIJAKSANA[1], John W. KING[2], Gerald TAMUNTUAN[3], James RUSSELL[4], La Ode NGKOIMANI[5], Darharta DAHRIN[1], Silvia FAJAR[1]
[1]Institut Teknologi Bandung, [2]University of Rhode Island, [3]Sam Ratulangi University, [4]Brown University, [5]Halu Oleo University

SE21 / Fault Ruptures, Active Tectonics and Seismic Hazard of Southeast and East Asia

Wed - 09 Aug | MR311

Session Chair(s) Noelynna T. RAMOS, *University of the Philippines*
J. Bruce H. SHYU, *National Taiwan University*

11:00 SE21-A005
SE21-D3-AM2-311-014
Influences of Different Factors on the Fault Dynamic Rupture Propagation
Lifen ZHANG[1#+], Jinggang LI[1], Yannan ZHAO[1]
[1]China Earthquake Administration

11:15 SE21-A021
SE21-D3-AM2-311-015
Focal Mechanism and Seismogenic Structure of the M4.9 and M5.1 Litang Earthquake Sequence on 23 Sept. 2016, Southwestern China
Guixi YI[1#+], Feng LONG[2], Mingjian LIANG[2]
[1]Sichuan Earthquake Administration, [2]Earthquake Administration of Sichuan Province

11:30
SE21-D3-AM2-311-016
SE21-A041
Unraveling the Source and Mechanism of the Great (M8.7) Surface-Rupturing Assam Earthquake (15/08/1950), Eastern Himalayas
Aurelie COUDURIER-CURVEUR[1#+], Elise KALI[1], Paul TAPPONNIER[1], Jerome VAN DER WOERD[2], Emile OKAL[3], Swapnamita VAIDESWARAN[4], Saurabh BARUAH[5], Cagil KARAKAS[1], Paramesh BANERJEE[1], Sorvigenaleon ILDEFONSO[1]
[1]Nanyang Technological University, [2]Université de Strasbourg, [3]Northwestern University, [4]Wadia Institute of Himalayan Geology, [5]CSIR North-East Institute of Science and Technology

11:45
SE21-D3-AM2-311-017
SE21-A037
Preliminary Crustal Thickness in Myanmar from the National Seismic Monitoring Network
Phyo Maung MAUNG[1#+], Wang XIN[1], Shengji WEI[1]
[1]Nanyang Technological University

12:00
SE21-D3-AM2-311-018
SE21-A028
Frontal Pop-Ups Structures are Responsible for Tsunami Generation in Tsunami Earthquakes of 2010 Mentawai Earthquake, Indonesia
Nugroho D. HANANTO[1#+], Satish C. SINGH[2], Yanfang QIN[3], Paul TAPPONNIER[4], Bertrand BEUNAICHE[5], Praditya AVIANTO[1], Linlin LI[4], Fredeique LECLERC[6], Helene CARTON[3], Haryadi PERMANA[1]
[1]Indonesian Institute of Sciences, [2]Institute of Earth Physics of Paris, [3]Institut de Physique du Globe de Paris, [4]Nanyang Technological University, [5]ENSTA Bretagne, [6]University of Nice Sophia Antipolis

12:15
SE21-D3-AM2-311-019
SE21-A010
Rupture Model of the 2016 Meinong, Taiwan, Earthquake Determined from Near-Source Strong Motion and High-Rate GPS Waveform Data
Ruey-Juin RAU[1#+], Yi-Ying WEN[2], Po-Ching TSENG[1], Wei-Cheng CHEN[1], Ming-Che HSIEH[3], Kuo-En CHING[4]
[1]National Cheng Kung University, [2]National Chung Cheng University, [3]Sinotech Engineering Consultants Inc., [4]National Chiao Tung University

SE22 / Biotic Evolution During India's Norhward Drift from Gondwana to Asia

Wed - 09 Aug | MR327

Session Chair(s) Sunil BAJPAI, *Birbal Sahni Institute of Palaeosciences*
Ashu KHOSLA, *Panjab University*

11:00
SE22-D3-AM2-327-001
SE22-A013
Fossil Evidence for Decline of Gondwanan Vegetation Due to Early Paleogene Hyperthermal Events: A Case Study from the Indian Subcontinent
Vandana PRASAD[1#+], Sunil BAJPAI[1]
[1]Birbal Sahni Institute of Palaeosciences

11:15
SE22-D3-AM2-327-002
SE22-A006
Northward Drifting Indian Plate: The Cradle of Origin and Early Evolution of Mammals
Sunil BAJPAI[1#+]
[1]Birbal Sahni Institute of Palaeosciences

11:30 SE22-A002

SE22-D3-AM2-327-003 Upper Cretaceous-Lower Paleocene Biota of the Deccan Volcano-Sedimentary Sequences: Paleoenvironmental, Biostratigraphical and Paleobiogeographical Implications in Context of Northward Drift of the Indian Plate

Ashu KHOSLA[1#+]

[1]*Panjab University*

11:45 SE22-A007

SE22-D3-AM2-327-004 Calcareous Nannofossils from Indus Suture Zone, Ladakh, NW Himalaya:clues to the Timing of India-Asia Collision

Jyotsana RAI[1#+], Vivesh V. KAPUR[1], Sunil BAJPAI[1]

[1]*Birbal Sahni Institute of Palaeosciences*

Session Chair(s) Vandana PRASAD, *Birbal Sahni Institute of Palaeosciences*

14:00 SE22-A001

SE22-D3-PM1-327-005 Early Eocene Adapisoriculids (Mammalia, Eutheria) from Western India: Evidence for Continuation of a Gondwanan Lineage Across the K-Pg Interval in the Indian Subcontinent

Vivesh V. KAPUR[1#+], Sunil BAJPAI[1], Debasis P DAS[2], G. V. R. PRASAD[3]

[1]*Birbal Sahni Institute of Palaeosciences,* [2]*Shell Technology India Pvt. Ltd,* [3]*University of Delhi*

14:15 SE22-A011

SE22-D3-PM1-327-006 Paleobiogeographic History of Plant Family Dipterocarpaceae Based on the Earliest Eocene Fossil Pollen Records from Indian Subcontinent

Ashish MISHRA[1], Jeyakumar S[1], Mahi BANSAL[1], Vandana PRASAD[1#+]

[1]*Birbal Sahni Institute of Palaeosciences*

14:30 SE22-A008

SE22-D3-PM1-327-007 Palynofloral Diversity Changes Across the Palaeogene Warming Event (ETM2, ~53.7 Ma) in the Palaeo-Equatorial Region: Evidences from Panandhro Lignite Mine, Western Indian

Poonam VERMA[1#+], M. R. RAO[1]

[1]*Birbal Sahni Institute of Palaeosciences*

SE25 / General Solid Earth Section

Wed - 09 Aug | MR311

Session Chair(s) Carlo ARCILLA, *University of the Philippines*
Kyaw THU, *Macle Gem Trade Laboratory*

08:30 SE25-A032

SE25-D3-AM1-311-005 Difficulty of the Determination of Hypocenters in Early 20 Century

Yuzo ISHIKAWA[1#+]

[1]*National Institute of Advanced Industrial Science and Technology*

08:45 SE25-A066

SE25-D3-AM1-311-006 Active Tectonic Movements Along the Thu Bon River Basin, Central Vietnam and its Implication to Geological Harzards

Hai Thanh TRAN[1#+], Hung QUOC NGUYEN[1], Do Tu Ngo HOANG[2], Nam NGUYEN XUAN[3], Hieu Minh LE[1], Dao Anh VU[1]

[1]*Hanoi University of Mining and Geology,* [2]*Hue University of Sciences,* [3]*Vietnam Institute of Geosciences and Mineral Resources*

09:00
SE25-D3-AM1-311-007
SE25-A020
Micro-Texture and Chemical Composition of Jasper in West Java, Indonesia
Kemala WIJAYANTI[1#+], Mega Fatimah ROSANA[1], Euis TINTIN YUNINGSIH[1], Isnu HAJAR SULISTYAWAN[2], Kurnia ARFIANSYAH[1], Erick SANJAYA[1]
[1]Padjadjaran University, [2]Geological Survey Institute of Indonesia

09:15
SE25-D3-AM1-311-008
SE25-A003
Modeling Repeating Earthquake Interactions: Triggering Effect from Nearby Microseismicity
Kate Huihsuan CHEN[1#+], Roland BURGMANN[2], K. JOHNSON[3], Robert NADEAU[2]
[1]National Taiwan Normal University, [2]University of California, Berkeley, [3]Indiana University

09:30
SE25-D3-AM1-311-009
SE25-A027
Geochemical and Sr-Nd Isotope Composition of Late Miocene Volcanic Rocks Associated with the Chah Zard Epithermal Gold-Silver Deposit, Sw Yazd, Iran
Majid GHADERI[1#+], Hossein KOUHESTANI[1], Mohammad Hashem EMAMI[2], Sebastien MEFFRE[3], Vadim KAMENETSKY[3], Jocelyn MCPHIE[3], Khin ZAW[3], Rasoul NASIRI BEZENJANI[4]
[1]Tarbiat Modares University, [2]Research Institute for Earth Sciences, [3]University of Tasmania, [4]Stockholm University

Session Chair(s)
Kyaw THU, *Macle Gem Trade Laboratory*
Carlo ARCILLA, *University of the Philippines*

16:00
SE25-D3-PM2-311-010
SE25-A069
Multiple Constraints on the Timescales of Sediment Source-to-Sink Processes in East Asia
Shouye YANG[1#+], Kai DENG[1], Chao LI[1]
[1]Tongji University

16:15
SE25-D3-PM2-311-011
SE25-A024
Crustal Structure of the Sikhote-Alin Orogenic Belt from Spectral Analysis of Magnetic and Gravity Data
Alexei DIDENKO[1#+], Mihkail NOSYREV[1], Boris SHEVCHENKO[1], Gulshat GILMANOVA[1]
[1]Far Eastern Branch of Russian Academy of Sciences

16:30
SE25-D3-PM2-311-012
SE25-A035
The Influence of Sea Level Change to the Development of Late Miocene Isolated Carbonate Platform in North West Java Basin, Indonesia
Anggun ARMIA[1#+]
[1]Pertamina EP

16:45
SE25-D3-PM2-311-013
SE25-A005
Spatio-Temporal Variation of the Postseismic Deformation Associated with the 2011 Tohoku Earthquake (M9.0) Based on Terrestrial and Seafloor Observations
Takeshi IINUMA[1#+], Yusaku OHTA[2], Satoshi MIURA[2], Jun MUTO[2], Fumiaki TOMITA[2], Motoyuki KIDO[2], Ryota HINO[2]
[1]Japan Agency for Marine-Earth Science and Technology, [2]Tohoku University

17:00 SE25-A063

SE25-D3-PM2-311-014

Nature of Mineralization and Beneficiation Approach of Low Grade Chromite Ores in Sukinda Ultramafic Complex, Odisha, Eastern India

Yudhisthir MOHANTA[1#+], Prabodha SAHOO[1], A.S. VENKATESH[1], Rama Murthy YANAMANDRA[2]

[1]Indian Institute of Technology (Indian School of Mines), Dhanbad, [2]Tata Steel Limited

17:15 SE25-A012

SE25-D3-PM2-311-015

Application of a New Method of Sediment Identification to Geoarchaeology: Morphologi G3

Nelum KANTHILATHA[1#+], William BOYD[2], Nigel CHANG[3], Sumanajith KUMARA[1]

[1]University of Sri Jayewardenepura, [2]Southern Cross University, [3]James Cook University

SS06 / High Power Space Exploration

Wed - 09 Aug | MR331

Session Chair(s) Frank JANSEN, *German Aerospace Center*
Ikkoh FUNAKI, *Japan Aerospace Exploration Agency*

14:00
SS06-D3-PM1-331-001
Invited

SS06-A002

Democritos: Demostrator Project for a MW Class Nuclear Electric Spacecraft

Jean-Claude WORMS[1#+], Frank JANSEN[2], Emmanouil DETSIS[1], Alexander SOLODUKHIN[3], Alexander SEMENKIN[3], Maria TOSI[4], Frederic MASSON[5], Stephane ORIOL[5], Michel MUSZYNSKI[6], Richard GRANJON[7], Zara HODGSON[8], Richard STAINSBY[8], Simana FERRARIS[4]

[1]European Science Foundation, [2]German Aerospace Center, [3]Keldysh Research Center, [4]Thales Alenia Space Italia, [5]Centre National d'Études Spatiales (CNES), [6]Airbus Safran Launchers, [7]SAGEM, [8]National Nuclear Laboratory

14:20
SS06-D3-PM1-331-002
Invited

SS06-A003

Potential Contributions of DLR to DEMOCRITOS INPPS Flagship: Robotics, Assembly, Test and Simulation of Electric Thrusters

Andreas RITTWEGER[1#+]

[1]German Aerospace Center

14:40
SS06-D3-PM1-331-003
Invited

SS06-A004

Development of High Power Electric Propulsion Systems for Space Use

Rod BOSWELL[1#+], Christine CHARLES[1]

[1]The Australian National University

15:00
SS06-D3-PM1-331-004
Invited

SS06-A001

Exploration of Europa: Search of Ingredients for Life

Varun SHEEL[1#+]

[1]Physical Research Laboratory

AS Poster Presentations

Wed - 09 Aug, 14:00 - 15:30 | Summit

AS01-D3-PM1-P-012
AS01-A010
Climate Change as a Trigger for "Response Divergence" and Tree Mortality: Evidenced by Tree Ring Width in Southwest China
Jiajia SU[1+], Xiaohua GOU[1#]
[1]*Lanzhou University*

AS02-D3-PM1-P-014
AS02-A002
Mechanisms of Secondary Convection Within a Mei-Yu Frontal Mesoscale Convective System in Eastern China
Xin XU[1+], Ming XUE[2#], Yuan WANG[1], Hao HUANG[1]
[1]*Nanjing University,* [2]*The University of Oklahoma*

AS02-D3-PM1-P-015
AS02-A004
Variability of Localized Rainfall from a Dense Data Network in Metro Manila
Ellice Dane ANCHETA[1#+], James SIMPAS[1], Genevieve LORENZO[1], Maria Obiminda CAMBALIZA[1]
[1]*Manila Observatory*

AS02-D3-PM1-P-016
AS02-A006
Numerical Simulation of Heat Wave Over the Southeastern Korea in 2015 Summer Using High-Resolution WRF Model
Dong Hyuck YOON[1+], Dong-Hyun CHA[1#]
[1]*Ulsan National Institute of Science and Technology*

AS02-D3-PM1-P-017
AS02-A007
Diagnosing Wind Roads Near High Rise Buildings and Evaluating Thermal Comfort Using Micrometeorological Data
Woo-Sik JUNG[1,2#+]
[1]*Inje University,* [2]*The Korean Environmental Sciences Society*

AS02-D3-PM1-P-018
AS02-A012
A Study on the Optimization of Meteorological Initial Input in the Weather Research and Forecasting (WRF) Model for Accuracy of Meteo-Tsunami Prediction
Yo-Hwan CHOI[1+], Hyunsu KIM[1#], Yoo-Keun KIM[1]
[1]*Pusan National University*

AS02-D3-PM1-P-019
AS02-A015
Impacts of Land Cover Change of Coastal Wetlands on Meteorological Fields in Gyeonggi Bay, West Sea of Korea
Hye Yeon AN[1+], Ju-Hee JEONG[1#], Yoo-Keun KIM[1]
[1]*Pusan National University*

AS02-D3-PM1-P-020
AS02-A022
Evaluation of Cloud Microphysics Schemes Based on In-Situ Videosonde Observations
Youko YOSHIZUMI[1+], Tetsuya KAWANO[1#], Ryuichi KAWAMURA[1], Kenji SUZUKI[2], Yasuhiro SAITOH[3]
[1]*Kyushu University,* [2]*Yamaguchi University,* [3]*Japan Aerospace Exploration Agency*

AS02-D3-PM1-P-021
AS02-A027
The Use of WRF-ARW Model to Simulate Fog Conditions Using Different PBL Schemes
Marouane TEMIMI[1#+]
[1]*Masdar Institute*

AS02-D3-PM1-P-022 AS02-A029
A Horizontal Index for the Influence of Upper-Level Environmental Flow on TC's Intensity
Yu-Kun QIAN[1#+], Shiqiu PENG[2], Chang-Xia LIANG[3]
[1]South China Sea Institute of Oceanology, [2]Chinese Academy of Sciences, [3]State Oceanic Administrative

AS03-D3-PM1-P-021 AS03-A005
Characteristics of Heavy Polluted Days in Shanghai During 2013-2016
Lan YAO[1+], Jianmin CHEN[1#], Liping QIAO[2], Hongli WANG[2], Wenwen SUN[1]
[1]Fudan University, [2]Shanghai Academy of Environmental Sciences

AS03-D3-PM1-P-022 AS03-A010
Understanding the Haze Events in Singapore Through Machine Learning
Hsiang-He LEE[1#+], Apisada CHULAKADABBA[2], Zhengyu YANG[3], Chien WANG[2]
[1]Singapore-MIT Alliance for Research and Technology, [2]Massachusetts Institute of Technology, [3]National University of Singapore

AS03-D3-PM1-P-023 AS03-A014
Impacts of Anthropogenic Aerosols on Springtime Mesoscale Convective Systems in South China
Lijuan ZHANG[1+], Tzung-May FU[1#]
[1]Peking University

AS03-D3-PM1-P-024 AS03-A022
Seasonal Variation of CCN Chemical Composition and Cloud Droplet Activation Kinetics: A Long-Term Observation at Noto Peninsula, Japan
Kento KINOUCHI[1#+], Hiroyuki HYONO[1], Masaki FURUYA[1], Hiroshi TSURUMARU[1], Atsushi MATSUKI[1]
[1]Kanazawa University

AS03-D3-PM1-P-025 AS03-A026
Haze Transport by Tropical Intra-Seasonal Variability During the 2015 Haze Event in South East Asia
Ritvik DOBRIYAL[1#+], Yudha DJAMIL[1], Wen-Chien LEE[1], Mikinori KUWATA[1], Dat PHAM TIEN[1]
[1]Nanyang Technological University

AS03-D3-PM1-P-026 AS03-A028
Atmospheric Nitrogen Deposition Over China Adjcent Seas During Heavy Haze Days
Xiaohuan LIU[1#+]
[1]Ocean University of China

AS04-D3-PM1-P-022 AS04-A004
Review to the Rocket-Borne Wind Sounding Technology in the Middle Atmosphere
Shudao ZHOU[1#+], Huijun LI[2]
[1]University of Science and Technology of China, [2]Nanjing University of Aeronautics and Astronautics

AS04-D3-PM1-P-023 AS04-A011
Total Ozone Properties Associated with Meteorological Conditions in the Western Antarctica
Ja-Ho KOO[1#+], Taejin CHOI[2], Hana LEE[1], Jhoon KIM[1], Dha Hyun AHN[1], Joonghee PARK[1], Jaemin KIM[3], Yun Gon LEE[3]
[1]Yonsei University, [2]Korea Polar Research Institute, [3]Chungnam National University

AS04-D3-PM1-P-024
AS04-A022
Momentum Flux of Convective Gravity Waves and its Impact to the Large-Scale Flow in the Stratosphere: An Off-Line Calculation of Gravity Wave Parameterization
Min-Jee KANG[1], Hye-Yeong CHUN[1#+], Young-Ha KIM[2]
[1]Yonsei University, [2]Ewha Womans University

AS04-D3-PM1-P-025
AS04-A027
Evaluation of Medium-Range Predictablilty in KMA Ensemble Prediction System
Soon Il KWON[1#+], Jeong-Hyun PARK[1], Hyun-Cheol SHIN[1], Seung-Woo LEE[2]
[1]Korea Meteorological Administration, [2]Numerical Modeling Center

AS04-D3-PM1-P-026
AS04-A031
Abnormal Temperature Events in Northeastern Eurasia in the Summer of 2002 Under Different Wave Propagation Patterns
Enkhbat ERDENEBAT[1#+]
[1]Hokkaido University

AS04-D3-PM1-P-027
AS04-A033
Seasonal Variations of Different Tides in the Mesosphere and Lower Thermosphere Revealed by a Meteor Radar Chain
You YU[1#+], Weixing WAN[2]
[1]Institute of Geology and Geophysics, Chinese Academy of Sciences, [2]Chinese Academy of Sciences

AS06-D3-PM1-P-006
AS06-A005
Optical Characteristics of Aerosols in the Floodplains of Northern India
Prayagraj SINGH[1], Aditya VAISHYA[2#+], Shantanu RASTOGI[1]
[1]Deen Dayal Upadhyay Gorakhpur University, [2]Vikram Sarabhai Space Centre

AS06-D3-PM1-P-007
AS06-A006
Forenoon and Afternoon Aerosol Radiative Forcing During Premonsoon-2016 at Varanasi
Manoj K. SRIVASTWA[1#+], Rajeev SINGH[1], Bharat Ji MEHROTRA[1], Pravash TIWARI[1], Sahil SHARMA[1], Anila H. BHENGRA[1], N. P. SINGH[1], Abhay K. SINGH[1], Suresh TIWARI[2], Atul K. SRIVASTAVA[2]
[1]Banaras Hindu University, [2]Indian Institute of Tropical Meteorology

AS06-D3-PM1-P-008
AS06-A009
Microphysical Characteristics of Aerosols and Associated Radiative Forcing Over Tropical Indian Ocean - Results of International Indian Ocean Expedition - II
Harilal MENON[1#+], Shrivardhan HULSWAR[1]
[1]Goa University

AS07-D3-PM1-P-006
AS07-A006
Low-Frequency Magnetic Pulses from the Positive Leader in Two Natural Lightning Flashes
Gaopeng LU[1#+]
[1]Chinese Academy of Sciences

AS07-D3-PM1-P-007
AS07-A008
The Influence of the Return Stroke Models on the Lightning Radiated Field in Earth-Ionosphere Modeling
Dongshuai LI[1#+], Gaopeng LU[2], Fei LIU[1]
[1]Nanjing University of Information Science & Technology, [2]Chinese Academy of Sciences

AS07-D3-PM1-P-008 AS07-A009
Abnormal Occurrence of Negative Narrow Bipolar Events in the Parent Thunderstorm of Blue Jets
Feifan LIU[1+], Baoyou ZHU[1], Gaopeng LU[2#], Zilong QIN[3], Alfred B. CHEN[4]
[1]University of Science and Technology of China, [2]Chinese Academy of Sciences, [3]The Hong Kong Polytechnic University, [4]National Cheng Kung University

AS07-D3-PM1-P-009 AS07-A011
Sprite Observation Result at Lulin Observatory in 2016 by National Central University
Pei-Yu CHEN[1#+], Min-Ruey LU[1], Cheng-Liing KUO[1], Chien-Chung CHOU[1], Jung-Kung CHOU[2], Shu-Chun CHANG[2], Alfred B. CHEN[2], Han-Tzong SU[2], Ruei-Ron HSU[2]
[1]National Central University, [2]National Cheng Kung University

AS10-D3-PM1-P-035 AS10-A011
A Study on the Influences of Low-Frequency Vorticity on Tropical Cyclone Formation in the Western North Pacific
Yi-Huan HSIEH[1#+], Cheng-Shang LEE[2], Chung-Hsiung SUI[1]
[1]National Taiwan University, [2]Taiwan Typhoon and Flood Research Institute

AS10-D3-PM1-P-036 AS10-A017
Changes of Tropical Cyclone Landfalls in the Southern China Throughout the 21st Century
Charlie C. F. LOK[1#+], Johnny CHAN[1]
[1]City University of Hong Kong

AS10-D3-PM1-P-037 AS10-A022
Tropical Cyclone Activities Over the Western North Pacific During El Nino and La Nina Simulated by an Axis-Symmetric Model
Chinh TA HUU[1#+]
[1]National Center for Hydro-Meteorological Forecasting

AS10-D3-PM1-P-038 AS10-A023
Large Errors in Tropical Cyclone Track Forecasts: The Causes
Chi Kit TANG[1#+], Johnny CHAN[1]
[1]City University of Hong Kong

AS10-D3-PM1-P-039 AS10-A024
Northward Expansion of Tropical Cyclone Tracks in the Western North Pacific During the Fall Season
Minkyu LEE[1#+], Dong-Hyun CHA[1]
[1]Ulsan National Institute of Science and Technology

AS10-D3-PM1-P-040 AS10-A026
Influential Role of the Moisture Conveyor Belt in Tropical Cyclone Intensity Over the Western North Pacific
Keita FUJIWARA[1#+]
[1]Kyushu University

AS10-D3-PM1-P-041 AS10-A027
Visibility Analysis in Shenzhen Under the Influence of Tropical Cyclones
Guangxin LI[1#+], Qinglan LI[2], Li ZHANG[3], Lei LI[3]
[1]Shenzhen Institutes of Advanced Technology，Chinese Academy of Sciences, [2]Chinese Academy of Sciences, [3]Shenzhen Meteorological Bureau

AS10-D3-PM1-P-042
AS10-A028
Rapid Intensification of Typhoon Goni (2015) After Eyewall Replacement: Doppler Radar Analysis
Udai SHIMADA[1#+], Masahiro SAWADA[1], Hiroyuki YAMADA[2]
[1]Japan Meteorological Agency, [2]University of the Ryukyus

AS10-D3-PM1-P-043
AS10-A031
A 31-Year Climatology of Tropical Cyclone Size from NCEP Climate Forecast System Reanalysis
Derek K. H. MOK[1#+], Johnny CHAN[1], Kelvin T. F. CHAN[1]
[1]City University of Hong Kong

AS10-D3-PM1-P-044
AS10-A032
A Comprehensive Study of the Precipitation and Airflow Structure of Outer Tropical Cyclone Rainbands Near Taiwan During 2003-2015
Jhang-Shuo LUO[1#+], Cheng-Ku YU[1]
[1]National Taiwan University

AS10-D3-PM1-P-045
AS10-A042
A Coupled Typhoon-Ocean Model for the Western North Pacific
Minghua SUN[1#+], Suhong MA[1], Jin ZHANG[1]
[1]China Meteorological Administration

AS10-D3-PM1-P-046
AS10-A043
Typhoon Intensity Consensus Predictions in the Western North Pacific
You Jung OH[1#+], Il-Ju MOON[1], Woojeong LEE[2]
[1]Jeju National University, [2]Korea Meteorological Administration

AS10-D3-PM1-P-047
AS10-A045
Statistical Prediction of Typhoon-Induced Accumulated Rainfall Over the Korean Peninsula Based on Historical Storm and Rainfall Database
Hyeji KIM[1+], Il-Ju MOON[1#]
[1]Jeju National University

AS10-D3-PM1-P-048
AS10-A047
Global 7-km Mesh Nonhydrostatic Model Intercomparison Project for Improving Typhoon Forecast (TYMIP-G7)
Masuo NAKANO[1#+], Akiyoshi WADA[2], Masahiro SAWADA[2], Hiromasa YOSHIMURA[2], Ryo ONISHI[1], Shintaro KAWAHARA[1], Wataru SASAKI[1], Tomoe NASUNO[1], Munehiko YAMAGUCHI[2], Takeshi IRIGUCHI[2], Masato SUGI[2], Yoshiaki TAKEUCHI[2]
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AS10-D3-PM1-P-049
AS10-A048
Impacts of Air-Sea Interaction and Spectral Nudging on Seasonal Tropical Cyclone Simulation
Jihong MOON[1+], Jinyoung PARK[1], Dong-Hyun CHA[1#]
[1]Ulsan National Institute of Science and Technology

AS10-D3-PM1-P-050
Invited
AS10-A050
Development of Typhoon Regional Unified Model (TRUM)
Dong-Hyun CHA[1#+], Jihong MOON[1], Woojeong LEE[2], Hyeonjin SHIN[2], Nam-Young KANG[2], Youngsin CHUN[2]
[1]Ulsan National Institute of Science and Technology, [2]Korea Meteorological Administration

AS10-D3-PM1-P-051
AS10-A057
The Role of the Boundary Layer in Secondary Eyewall Formation
Kuan Yu LU[1#+], Chun-Chieh WU[1]
[1]*National Taiwan University*

AS10-D3-PM1-P-052
AS10-A058
Sensitivity Analysis of Tropical Cyclone Track and Intensity Based on Ensemble Forecasts
Chih-Chi HU[1#+], Chun-Chieh WU[1]
[1]*National Taiwan University*

AS11-38-D3-PM1-P-025
AS11-38-A001
The Intraseasonal Variation of Wind and Surface Temperature Over East Asia in Boreal Winter
Yang JIAO[1+], Renguang WU[1#]
[1]*Chinese Academy of Sciences*

AS11-38-D3-PM1-P-026
AS11-38-A014
An Evaluation of Boreal Summer Intra-Seasonal Oscillation Simulated by BCC_AGCM
Yongjie FANG[1#+]
[1]*Beijing Climate Center*

AS11-38-D3-PM1-P-027
AS11-38-A016
On the Co-Occurrence of Wintertime Temperature Anomalies Over Eastern Asia and Eastern North America
Ruyan CHEN[1+], Wenyu HUANG[1#], Bin WANG[1,2], Zifan YANG[1], Jonathon WRIGHT[1], Wenqian MA[1]
[1]*Tsinghua University,* [2]*Chinese Academy of Sciences*

AS11-38-D3-PM1-P-028
AS11-38-A017
Seasonal March of Rainfall at Manila for the Late 19th Century - The Early 20th Century
Ikumi AKASAKA[1#+], Masumi ZAIKI[2], Hisayuki KUBOTA[3], Jun MATSUMOTO[4]
[1]*Senshu University,* [2]*Seikei University,* [3]*Japan Agency for Marine-Earth Science and Technology,* [4]*Tokyo Metropolitan University*

AS11-38-D3-PM1-P-029
AS11-38-A018
Spatial Analysis of Monthly Mean Stable Isotopes in Precipitation Across Japan Throughout 2013
Kimpei ICHIYANAGI[1,2#+], Masahiro TANOUE[3], Kei YOSHIMURA[3], Tsuyoshi KUMANOMIDO[1]
[1]*Kumamoto University,* [2]*Japan Agency for Marine-Earth Science and Technology,* [3]*The University of Tokyo*

AS11-38-D3-PM1-P-030
AS11-38-A021
Unique Relationship Between Tropical Rainfall and SST to the Northwest of Madagascar in Boreal Winter
Shunya KOSEKI[1#+], Bhuwan BHATT[1]
[1]*University of Bergen*

AS11-38-D3-PM1-P-031
AS11-38-A025
Possible Mechanism of Korean and Indian Summer Monsoon by Greenland Sea Ice Variability in CAM5
In-Won KIM[1#+], Amita PRABHU[2], Jaiho OH[1], Ramesh KRIPALANI[2]
[1]*Pukyong National University,* [2]*Indian Institute of Tropical Meteorology*

AS11-38-D3-PM1-P-032
AS11-38-A030
A Comparison of Two Intraseasonal Cooling Events in 2007/08 and 2015/16 Winter
Mingyue QIN[1#+], Shuanglin LI[2,3]
[1]*Chinese Academy of Sciences,* [2]*Institute of Atmospheric Physics, Chinese Academy of Sciences,* [3]*China University of Geosciences*

AS11-38-D3-PM1-P-033
AS11-38-A041
Phase Transition of the Pacific Decadal Oscillation and Decadal Variation of the East Asian Summer Monsoon in the 20th Century
Xiao DONG[1+], Feng XUE[1#]
[1]*Chinese Academy of Sciences*

AS13-D3-PM1-P-018
AS13-A002
Comparison of Ensemble Forecast Skill with Single Forecast Skill by Using Nonlinear Local Lyapunov Vectors in Lorenz63 Model
Liang DING[1+], Ruiqiang DING[1#], Li JIANPING[2], Bin GU[3]
[1]*Chinese Academy of Sciences,* [2]*Beijing Normal University,* [3]*Nanjing University of Information Science and Technology*

AS13-D3-PM1-P-019
AS13-A007
Interannual Variability of East Asian Winter Monsoon and its Dynamical and Statistical Prediction
Daehyun KANG[1+], Myong-In LEE[1#], Jungho IM[1]
[1]*Ulsan National Institute of Science and Technology*

AS13-D3-PM1-P-020
AS13-A010
Multi-Scale Cyclone Activity in the Changjiang River-Huaihe River Valleys During Spring and its Relationship with Rainfall Anomalies
Chuhan LU[1#+], Yujing QIN[1]
[1]*Nanjing University of Information Science & Technology*

AS13-D3-PM1-P-021
AS13-A013
Teleconnection Over Afro-Eurasia and Influence of Subtropical Westerly Jet on it
Shan HE[1#+], Song YANG[1]
[1]*Sun Yat-sen University*

AS13-D3-PM1-P-022
AS13-A019
Influence of the North Pacific Victoria Mode on the Pacific ITCZ Summer Precipitation
Jiao LI[1#+], Ruiqiang DING[1], Jianping LI[2]
[1]*Chinese Academy of Sciences,* [2]*Beijing Normal University*

AS13-D3-PM1-P-023
AS13-A022
Effect of Excessive Equatorial Pacific Cold Tongue Bias on Northwest Pacific Anticyclone
Yuntao JIAN[1#+], Song YANG[1], Gen LI[2]
[1]*Sun Yat-sen University,* [2]*Chinese Academy of Sciences*

AS13-D3-PM1-P-024
AS13-A027
Variability of Wind Energy in Korea Using Regional Climate Model Ensemble Projection
Yeon-Hee KIM[1#+], Geon-Hwa RYU[1], Baek-Jo KIM[2], Yumi KIM[3]
[1]*National Institute of Meteorological Sciences,* [2]*National Institute of Meteorological Research,* [3]*Kongju National University*

AS13-D3-PM1-P-025
AS13-A030
Understanding the Mechanism Leading to a Heat Wave Event in South Korea During August 2016
Youjin WON[1#+], Sang-Wook YEH[1]
[1]Hanyang University

AS13-D3-PM1-P-026
AS13-A031
Understanding the Mechanisms Leading to Heat Waves and Tropical Nights in Korea
Jinsil HONG[1#+], Sang-Wook YEH[1]
[1]Hanyang University

AS13-D3-PM1-P-027
AS13-A037
Abrupt Shift in the Response of Northern Hemisphere Winter Climate to the 11-Year Solar Cycle in the Mid-1970s
Hedi MA[1#+], Haishan CHEN[1], Xing LI[1], Shanlei SUN[1]
[1]Nanjing University of Information Science & Technology

AS14-D3-PM1-P-011
AS14-A002
Response of Precipitation Extremes to Absorbing Aerosols Using a Cloud-Resolving Model
Xin Rong CHUA[1#+], Yi MING[2]
[1]Princeton University, [2]National Oceanic and Atmospheric Administration

AS14-D3-PM1-P-012
AS14-A006
Rain Drop Size Distribution in Pre-YMC Under the Coastal Heavy Rainfall in Western Sumatra
Masaki KATSUMATA[1#+], Shuichi MORI[1], Ryuichi SHIROOKA[1], Katsuhiro NAKAGAWA[2], Biao GENG[1], Kyoko TANIGUCHI[1]
[1]Japan Agency for Marine-Earth Science and Technology, [2]National Institute of Information and Communications Technology

AS14-D3-PM1-P-013
AS14-A010
Lightning Activities Over the Coastal Region of Sumatra During the Pre-YMC Observations in 2015
Jun-Ichi HAMADA[1#+], Shuichi MORI[2], Masaki KATSUMATA[2], Jun MATSUMOTO[1], Fadli SYAMSUDIN[3], Kunio YONEYAMA[2]
[1]Tokyo Metropolitan University, [2]Japan Agency for Marine-Earth Science and Technology, [3]Agency for Assessment and Application of Technology

AS14-D3-PM1-P-014
AS14-A011
Simultaneous Measurements of Stable Isotope Composition in Precipitation and Vapour During NE Monsoon in Singapore
Dominik JACKISCH[1#+], Shaoneng HE[2], Maria Rosabelle ONG[2], Nathalie GOODKIN[2]
[1]EOS, [2]Nanyang Technological University

AS14-D3-PM1-P-015
AS14-A012
Intreaseasonal and Diurnal Variations of Precipitation Microstructure Over Indian Ocean During CINDY Field Campaign
Marzuki MARZUKI[1#+], Masaki KATSUMATA[2], Mutya VONNISA[1], Harmadi HARMADI[1], Hiroyuki HASHIGUCHI[3], Elfira SAUFINA[1]
[1]Andalas University, [2]Japan Agency for Marine-Earth Science and Technology, [3]Kyoto University

AS14-D3-PM1-P-016

AS14-A017
Inter-Decadal Variation of the Tropical Atlantic-Korea Teleconnection During the Boreal Summer
Yeon Ji HWANG[1+], Yoo-Geun HAM[1#]
[1]*Chonnam National University*

AS15-D3-PM1-P-009

AS15-A008
High Resolution Aerosol Product from MODIS: Algorithm, Validation and Applications
Pawan GUPTA[1#+], Robert LEVY[2], Shana MATTOO[2], Lorraine REMER[3], Yingxi SHI[1]
[1]*Universities Space Research Association/ NASA Goddard Space Flight Center,* [2]*NASA Goddard Space Flight Center,* [3]*University of Maryland Baltimore County*

AS15-D3-PM1-P-010

AS15-A010
A High-Resolution Global Chemical Data Assimilation of Multiple Satellite Measurements from OMI, GOME-2, MOPITT, and MLS During KORUS-AQ Aircraft Campaign
Takashi SEKIYA[1#+], Kazuyuki MIYAZAKI[1], Koji OGOCHI[1], Kengo SUDO[2], Masayuki TAKIGAWA[1]
[1]*Japan Agency for Marine-Earth Science and Technology,* [2]*Nagoya University*

AS15-D3-PM1-P-011

AS15-A016
Improvement of GOME-2 Retrieval on the Study of Tropospheric Air Pollutants Over China
Rocio MONTES RUBIO[1#+], Nan HAO[1], Thomas TRAUTMANN[1]
[1]*German Aerospace Center*

AS15-D3-PM1-P-012

AS15-A017
Aerosol Detection and Retrieval by the Multi-Spectral Geostationary Sensor Himawari-8/AHI
Kwon Ho LEE[1#+], Gi-Hoon HONG[1]
[1]*Gangneung-Wonju National University*

AS16-D3-PM1-P-012

AS16-A001
A Case Study on a Rare Persistent Heavy Pollution in Ningbo City
Risheng YAO[1], Xiaoping TU[1#+], Xiaowei ZHANG[2], Difeng XU[1], Dong YANG[1], Xiaoli GU[1]
[1]*Ningbo Meteorological Observatory,* [2]*Zhejiang Provincial Climate Center*

AS16-D3-PM1-P-013

AS16-A002
Diurnal and Seasonal Variations of the Direct Radiative Forcing Due to Different Aerosol Components in Urban and Remote Areas, South Korea
Sang-Keun SONG[1#+], Yeon-Hee PARK[1]
[1]*Jeju National University*

AS16-D3-PM1-P-014

AS16-A007
Optical Properties for HULIS Aerosols at Anmyeon Island, Korea
Chang Hoon JUNG[1#+], Jiyi LEE[2], Yong Pyo KIM[3]
[1]*Kyungin Women's University,* [2]*Chosun University,* [3]*Ewha Womans University*

AS16-D3-PM1-P-015

AS16-A009
An Investigation of the Antecedent Characteristics of Ozone Precursor on High Ozone Days in Busan, Korea
Woo-Sik JUNG[1,2#+], W. G. DO[3]
[1]*Inje University,* [2]*The Korean Environmental Sciences Society,* [3]*Busan Metropolitan City Institute of Health and Environment*

AS16-D3-PM1-P-016 AS16-A012
Modeling and Interpretation of Aerosol-Cloud-Radiation Interaction Effect Over East Asia
Jeong-Eon KANG[1+], Hyo-Jung LEE[1], Shin-Young PARK[1], Cheol-Hee KIM[1#]
[1]*Pusan National University*

AS16-D3-PM1-P-017 AS16-A014
Seasonal Variation of Chemical Composition of PM2.5 Over South Korea and its Validation Against In-situ Surface Measurements
Jong Jae LEE[1+], Yu-Jin JO[1], Youngsook LYU[2], Daniel CHOI[1], Cheol-Hee KIM[1#]
[1]*Pusan National University,* [2]*National Institute of Environmental Research*

AS16-D3-PM1-P-018 AS16-A017
Analysis of Near Infrared Aerosol and Ozone Observations at a Southwest Peninsular Coastal Station Using Microtops Sunphotometer
Sivaprasad P.[1#+], Babu C. A.[1,2], Jayakrishnan P. R.[1]
[1]*University of Malaya,* [2]*Cochin University of Science and Technology*

AS17-D3-PM1-P-009 AS17-A003
Investigation of the Bias Correction of Satellite Data in Regional Numerical Weather Simulation
Shen-Cha HSU[1#+], Chian-Yi LIU[1]
[1]*National Central University*

AS17-D3-PM1-P-010 AS17-A005
Optimal Use of Space-Borne Advanced Infrared and Microwave Soundings for Regional Numerical Weather Prediction
Chian-Yi LIU[1#+], Shen-Cha HSU[1], Tang-Huang LIN[1], Liu GIN-RONG[1]
[1]*National Central University*

AS17-D3-PM1-P-011 AS17-A006
Improvement of Hydrometeor Classification Algorithm Using Dual-Polarimetric Radar by Applying Temperature from NWP Model
In-Hae CHO[1#+], Sung-A JUNG[1], Sung-Hwa JUNG[1], Sun-Ki LEE[1]
[1]*Korea Meteorological Administration*

AS17-D3-PM1-P-012 AS17-A008
Sensitivity Experiment of Radar-Based Nowcasting System (MAPLE) with Different Bondary Condition and Weighting Factors
Jong-Hoon JEONG[1#+], Sung-Hwa JUNG[1], Mi-Kyung SUK[1], Sun-Ki LEE[1]
[1]*Korea Meteorological Administration*

AS17-D3-PM1-P-013 AS17-A009
Impact of the TWRF Model Resolutions on Tropical Cyclones Track, Intensity and Rainfall Predictions Over the Western North Pacific
Der Song CHEN[1#+], Tien-Chiang YEH[1], Ling-Feng HSIAO[2], Jing-Shan HONG[1], Chin-Tzu FONG[1]
[1]*Central Weather Bureau,* [2]*Taiwan Typhoon and Flood Research Institute*

AS17-D3-PM1-P-014 AS17-A011
Observational Analysis of a Landfalling Typhoon Using Polarimetric Radar: Typhoon Soudelor (2015)
Shiou Rong CHU[1#+], Ben JOU[1]
[1]*National Taiwan University*

AS17-D3-PM1-P-015 AS17-A012
The Assessment of Taiwan Central Weather Bureau GFS Cloud Properties by Using Satellite Data
Meng-Yue LIN[1#+], Mei-Yu CHANG[2], Jen-Her CHEN[2], Chian-Yi LIU[1]
[1]National Central University, [2]Central Weather Bureau

AS17-D3-PM1-P-016 AS17-A016
Improvement of Radar Snowfall Rate by Adjusting Z-S Relationship with Surface Air Temperature
Chang-Hwan PARK[1#+], Sung-Hwa JUNG[1], Sung-A JUNG[1], Sun-Ki LEE[1]
[1]Korea Meteorological Administration

AS18-D3-PM1-P-009 AS18-A002
Effects of Land Cover Change from Mixed Wood to Irrigated Cropland on Regional Climate Over Northeast Asia with a Regional Climate Model
Seok-Geun OH[1+], Myoung-Seok SUH[1#]
[1]Kongju National University

AS18-D3-PM1-P-010 AS18-A004
Snow Variation Patterns Related to the Atmospheric Annular Modes
Liang ZHAO[1#+], Ziniu XIAO[1]
[1]Chinese Academy of Sciences

AS18-D3-PM1-P-011 AS18-A008
The Impact of Land-Use Change Caused by Urban Growth on Regional Climate in Seoul Metropolitan Area
Hyunsu KIM[1#+], Yoo-Keun KIM[1]
[1]Pusan National University

AS18-D3-PM1-P-012 AS18-A010
Effects of Land-Use Change on Aerosols, Clouds and Climate
Alan LIM[1#+], Amos TAI[1]
[1]The Chinese University of Hong Kong

AS18-D3-PM1-P-013 AS18-A013
The Impact of Irrigation on Regional Climate Over Eastern China
Suchul KANG[1#+], Elfatih ELTAHIR[2]
[1]Singapore-MIT Alliance for Research and Technology, [2]Massachusetts Institute of Technology

AS18-D3-PM1-P-014 AS18-A016
Dynamics Evapotranspiration Fluxes Over the Heterogeneous Land Covers
Masafumi KON[1#+], Daisuke KOMORI[1], Pimsri SUWANNAPAT[1], Ananya SRITAWAN[1], Nanami SAKAI[1]
[1]Tohoku University

AS18-D3-PM1-P-015 AS18-A017
The Effect of Irrigation on Precipitation Variation in Saudi Arabia Using a Regional Climate Model
Eun-Soon IM[1#+], Min-Hui LO[2], Thanh NGUYEN-XUAN[1]
[1]Hong Kong University of Science and Technology, [2]National Taiwan University

AS18-D3-PM1-P-016 AS18-A020
Effects of Historical Land Cover Change on Temperature Extremes
Xing LI[1#+], Haishan CHEN[1], Wenjian HUA[1], Hedi MA[1], Shanlei SUN[1]
[1]Nanjing University of Information Science & Technology

AS19-D3-PM1-P-020

AS19-A011

The Impact of Assimilation of Doppler Radar Velocity on Forecast of Tropic Cyclone Nida (2016) by Using the Ensemble Kalman Filter (EnKF)

Hui XIAO[1#+]

[1]*Guangzhou Institute of Tropical and Marine Meteorology*

AS19-D3-PM1-P-021

AS19-A013

The Precipitation Micro-Physical Structure Over South China Based on Micro Rain Radar

Lu FENG[1#+]

[1]*China Meteorological Administration*

AS19-D3-PM1-P-022

AS19-A018

Mesoscale Observational Analysis of Lifting Mechanism of a Warm-Sector Convective System Producing the Maximal Daily Precipitation in China Mainland During Pre-Summer Rainy Season of 2015

Mengwen WU[1+], Yali LUO[1#]

[1]*China Meteorological Administration*

AS19-D3-PM1-P-023

AS19-A019

Analysis on Mesoscale Convective System and Impact of Low-Level Wind in a Meiyu Heavy Rainfall Event

Shunan YANG[1#+]

[1]*National Meteorological Center*

AS19-D3-PM1-P-024

AS19-A022

Heavy Rainfall Related Weather Patterns During the Baiu Season and Their Future Changes

Masamichi OHBA[1#+]

[1]*Central Research Institute of Electric Power Industry (CRIEPI)*

AS19-D3-PM1-P-025

AS19-A024

Contrasting Impacts of Developing Phases of Two Types of El Niño on Southern China Rainfall

Jianping LI[1#+], Juan FENG[1], Fei ZHENG[2], Fei XEI[1], Cheng SUN[1]

[1]*Beijing Normal University,* [2]*Chinese Academy of Sciences*

AS19-D3-PM1-P-026

AS19-A025

Morphology and Evolution of Heavy-Rain-Producing Mesoscale Convective Systems in South China During SCMREX 2013-16

Yangruixue CHEN[1+], Yali LUO[2#]

[1]*Chinese Academy of Meteorological Sciences,* [2]*China Meteorological Administration*

AS19-D3-PM1-P-027

AS19-A032

CMIP5 Multi-Model Projections of Extreme Weather Events in the Humid Subtropical Gangetic Plain Region of India

Reshmita NATH[1#+], Wen CHEN[1], Xuefeng CUI[2], Hans F. GRAF[3], Debashis NATH[1]

[1]*Chinese Academy of Sciences,* [2]*Beijing Normal University,* [3]*University of Cambridge*

AS19-D3-PM1-P-028

AS19-A035

250 m Resolution Synthetic Precipitation Data for Ungauged Sites

Hong-Joong KIM[1#+]

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AS20-D3-PM1-P-009

AS20-A009

Geostatistical Analysis of Spatial Characteristics of Heavy Rainfall in Korea: Implications for Data Assimilation

Sojung PARK[1+], Ebony LEE[1], Seon Ki PARK[1#], Yunho PARK[2], Jeung Whan LEE[3]

[1]Ewha Womans University, [2]National Meteorological Satellite Center, [3]Korea Meteorological Administration

AS20-D3-PM1-P-010

AS20-A010

Geostatistical Approach of Analyzing Water Vapor Imagery from Himawari-8 and its Applicability to Data Assimilation

Ebony LEE[1], Sojung PARK[1+], Seung Yeon LEE[1], Seon Ki PARK[1#], Yunho PARK[2], Jeung Whan LEE[3]

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AS20-D3-PM1-P-011

AS20-A011

Intercomparison of Land Surface Models in WRF and Optimal Estimation of Parameters for Predicting the Eurasian Snow Depth

Da-Eun KIM[1+], Sojung PARK[1], Ebony LEE[1], Seon Ki PARK[1#]

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AS20-D3-PM1-P-012

AS20-A012

Assessing Potential Impact of Atmospheric Composition Observations from GEMS Geostationary Satellite Mission on Air Quality Prediction Through OSSEs

Ebony LEE[1+], Da-Eun KIM[1], Sojung PARK[1], Seung Yeon LEE[1], Yujin JUHN[1], Seon Ki PARK[1#]

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AS20-D3-PM1-P-013

AS20-A015

An Adaptive Hybrid EnKF-OI for Efficient Data Assimilation in the Red Sea

Habib TOYE[1+], Peng ZHAN[1], Furrukh SANA[1], Ibrahim HOTEIT[1#]

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AS21-D3-PM1-P-018

AS21-A001

The Impact of Boreal Summer Intraseasonal Oscillations on Intraseasonal Summer Monsoon Rainfall Over Eastern China

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AS21-D3-PM1-P-019

AS21-A006

Barrier Effect of the Indo-Pacific Maritime Continent on the MJO: Perspectives From Tracking MJO Precipitation

Jian LING[1#+], Chidong ZHANG[2]

[1]Chinese Academy of Sciences, [2]National Oceanic and Atmospheric Administration

AS21-D3-PM1-P-020

AS21-A011

Climatological Intraseasonal Oscillation Signals Near the Tropopause Preceding Persistent Strong Precipitation Events in South China

Liang ZHAO[1#+], Ziniu XIAO[1]

[1]Chinese Academy of Sciences

AS21-D3-PM1-P-021

AS21-A021

Can all Global Models Simulate the Madden Julian Oscillation?

Chidong ZHANG[1#], Jian LING[2+]

[1]National Oceanic and Atmospheric Administration, [2]Chinese Academy of Sciences

AS21-D3-PM1-P-022
AS21-A026
Investigation of a Formation of the Southern Hemisphere Teleconnection Pattern in Response to the Intraseasonal Variability During the Austral Wintertime
Hyunju LEE[1#+], Kyong-Hwan SEO[1]
[1]*Pusan National University*

AS21-D3-PM1-P-023
AS21-A030
Simulation of the November 2011 Madden - Julian Oscillation Event in Cloud-Permitting Model
Jinho CHOI[1+], Hae-Li PARK[1], Kyong-Hwan SEO[1#]
[1]*Pusan National University*

AS21-D3-PM1-P-024
AS21-A031
Impact of the Interannual Variability of the Tropical Low-Frequency Oscillation Intensity on the Wintertime Rainfall Over East China
Ziniu XIAO[1#+]
[1]*Chinese Academy of Sciences*

AS21-D3-PM1-P-025
AS21-A034
Mean and Intraseasonal Variability of MJO Simulated by NCEP Climate Forecast System Model (Version 2.0): Impact of Horizontal Resolution
Shilpa MALVIYA[1#+], Parthasarathi MUKHOPADHYAY[1], R.P.M KRISHNA[1], Kiran SALUNKE[1], Ashish DHAKATE[1], Suryachandra A. RAO[1]
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AS22-D3-PM1-P-007
AS22-A001
Linear Interference of the East Asian Winter Monsoon in the Tropical Pacific Rainfall Variability Associated with ENSO
Tianjiao MA[1+], Wen CHEN[1#], Debashis NATH[1], Lin WANG[1]
[1]*Chinese Academy of Sciences*

AS22-D3-PM1-P-008
AS22-A002
Distinct Patterns of Tropical Pacific Convection Anomaly and the Associated Extratropical Wave Trains in the Northern Hemisphere
Shuoyi DING[1+], Wen CHEN[1#]
[1]*Chinese Academy of Sciences*

AS22-D3-PM1-P-009
AS22-A003
Linking a Sea Level Pressure Anomaly Dipole Over North America to the Central Pacific El Niño
Ruiqiang DING[1#+], Jianping LI[2], Yu-Heng TSENG[3]
[1]*Chinese Academy of Sciences,* [2]*Beijing Normal University,* [3]*National Center for Atmospheric Research*

AS22-D3-PM1-P-010
AS22-A004
Influence of ENSO on Seasonal Rainfall Over the Western Maritime Continent
Boon Chong Peter HENG[1#+], Muhammad Eeqmal HASSIM[1]
[1]*Meteorological Service Singapore*

AS22-D3-PM1-P-011
AS22-A009
Genesis Of The 2014-2016 El Niño Events
Tao LIAN[1#+], Dake CHEN[1], Youmin TANG[1,2]
[1]*State Oceanic Administration,* [2]*University of Northern British*

AS23-D3-PM1-P-008

AS23-A010

Seasonal and Decadal-Scale Variability of Atomic Oxygen in the Mesosphere and Lower Thermosphere

Jeng-Hwa YEE[1#+]

[1]Johns Hopkins University

AS23-D3-PM1-P-009

AS23-A013

Measurement of Neutral Mesopause Density at Low Latitudes Using the Kunming Meteor Radar

Wen YI[1+], Xianghui XUE[1#], Jingsong CHEN[2], Xiankang DOU[1], Tingdi CHEN[1], Na LI[2]

[1]University of Science and Technology of China, [2]China Research Institute of Radio Wave Propagation

AS23-D3-PM1-P-010

AS23-A015

Measurements of Turbulence Heat Flux and Thermal Diffusivity in the Mesopause Region by a Na LIDAR

Yafang GUO[1#+], Alan LIU[1]

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AS23-D3-PM1-P-011

AS23-A016

Comparison of the Long-Term Mesospheric Temperatures Estimated from Meteor Radars in Northern and Southern High-Latitude Regions

Hosik KAM[1#+], Yongha KIM[1], N.J. MITCHELL[2], Jeong-Han KIM[3], Changsup LEE[3]

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AS24-D3-PM1-P-020

AS24-A003

Torrential Rainfall Responses to Radiative Processes During a Landfall of Typhoon Fitow (2013)

Xiaofan LI[1#+]

[1]Zhejiang University

AS24-D3-PM1-P-021

AS24-A004

RCEMIP: Radiative Convective Equilibrium Model Inter-Comparison Project

Masaki SATOH[1#+], Tomoki OHNO[1], Allison WING[2], Sandrine BONY[3], Bjorn STEVENS[4], Kevin REED[5]

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AS24-D3-PM1-P-022

AS24-A005

Simulated Convective-Radiative Interaction in SST-Driven Overturning Circulation

Ji-Jen SUN[1], Chien-Ming WU[1], Chung-Hsiung SUI[1#+]

[1]National Taiwan University

AS24-D3-PM1-P-023

AS24-A006

Thermodynamically and Dynamically Consistent Atmospheric Forcing Data Over the Tibetan Plateau

Donghai WANG[1#+], Xiaoling JIANG[2], Zhaoming LIANG[2], Shaocheng XIE[3], Minghua ZHANG[4]

[1]Sun Yat-sen University, [2]China Meteorological Administration, [3]Lawrence Livermore National Laboratory, [4]Stony Brook University

AS24-D3-PM1-P-024

AS24-A014

Preliminary Results of the High Resolution Model Guidance for the SCSTIMX

Ying-Jhen CHEN[1#+], Pay-Liam LIN[1], Jing-Shan HONG[2], Chin-Tzu FONG[2]

[1]National Central University, [2]Central Weather Bureau

AS24-D3-PM1-P-025 AS24-A015
Characteristics of Boundary Layer Jet Over South China Sea During the Early Summer Rainy Season of Taiwan
Chuan-Chi TU[1#+], Yi-Leng CHEN[2], Pay-Liam LIN[1]
[1]National Central University, [2]University of Hawaii at Manoa

AS24-D3-PM1-P-026 AS24-A016
Evaluations of Cloud Properties in a Global Cloud Systems Resolving Model Using CALIPSO and Satellite Simulator
Woosub ROH[1#+], Masaki SATOH[1], Tempei HASHINO[2]
[1]The University of Tokyo, [2]Kyushu University

AS24-D3-PM1-P-027 AS24-A019
Evaluating the Cloud Radiative Forcing Simulated by 15 CMIP5 Models
Yuxi WANG[1+], Zhaohui LIN[1#]
[1]Chinese Academy of Sciences

AS24-D3-PM1-P-028 AS24-A026
Evaluation of Stochastic Perturbed Parameterization Tendencies on Convective-Resolving Ensemble Forecasts of Heavy Rainfall Events in New York and Taiwan
Kevin LUPO[1#+], Shu-Chih YANG[2], Ryan TORN[1]
[1]University at Albany, State University of New York, [2]National Central University

AS27-D3-PM1-P-009 AS27-A001
1-Octanol-Water Partitioning as a Classifier of Water Soluble Organic Matters: Implication for Solubility Distribution
Wen-Chien LEE[1#+], Mikinori KUWATA[1]
[1]Nanyang Technological University

AS27-D3-PM1-P-010 AS27-A002
Observational Study of Fine and Coarse Aerosols During Haze-Fog Episodes in Kinmen, Southern China
Tse-Tsung HO[1#+], Charles C.-K. CHOU[1]
[1]Academia Sinica

AS27-D3-PM1-P-011 AS27-A008
Estimation of Cloud Condensation Nuclei Number Concentration Based on Measurements of a Humidified Nephelometer System
Jiangchuan TAO[1+], Chunsheng ZHAO[1#], Ye KUANG[1]
[1]Peking University

AS27-D3-PM1-P-012 AS27-A009
Numerical Investigation of Enhanced Sulfate Formation Over Mountain Areas in Central Taiwan
I-Chun TSAI[1#+], Jen-Ping CHEN[2], Charles C.-K. CHOU[1], Wei-Nai CHEN[1], Hui-Ming HUNG[2]
[1]Academia Sinica, [2]National Taiwan University

AS27-D3-PM1-P-013 AS27-A010
Characteristics and Sources of Aerosols on the Western Coast of Taiwan Strait in Spring 2015
Heng TIAN[1+], Tzung-May FU[1#], Hansen CAO[1], Jinxuan CHEN[1], Yaping MA[1], Aoxing ZHANG[1], Lijuan ZHANG[1], Charles C.K. CHOU[2], Po-Hsiung LIN[3], Wei-Nai CHEN[2], Hui-Ming HUNG[3], Shih-Yu CHANG[4], I-Chun TSAI[2], Chuan-Yao LIN[2], Wei-Ting CHEN[3]
[1]Peking University, [2]Academia Sinica, [3]National Taiwan University, [4]Chung Shan Medical University

AS27-D3-PM1-P-014 AS27-A013
A Novel Method to Estimate Supersaturation Ratio of a Fog Event Using Aerosol and Fog Measurements Data
Chuanyang SHEN[1+], Chunsheng ZHAO[1#]
[1]*Peking University*

AS27-D3-PM1-P-015 AS27-A014
The Hourly Characteristics of Aerosol Chemical Compositions in the Fog Season in Kinmen
Yu-Chieh CHEN[1], Yu-Chen TSAI[1], Charles C.K. CHOU[2], Chung-Te LEE[3], Shih-Yu CHANG[1#+]
[1]*Chung Shan Medical University,* [2]*Academia Sinica,* [3]*National Central University*

AS28-D3-PM1-P-013 AS28-A007
Applications of Global Satellite Mapping of Precipitation (GSMaP) Products for Flood Forecasting and Early Warning Activities in Sri Lanka
Mohamed RASMY[1,2#+], Yoichi IWAMI[1], Toshio KOIKE[3], Tomoki USHIYAMA[1,2]
[1]*Public Works Research Institute,* [2]*National Graduate Institute for Policy Studies,* [3]*The University of Tokyo*

AS28-D3-PM1-P-014 AS28-A009
Further Improvement in the Statistical Hurricane Intensity Prediction Scheme (SHIPS) Using Inner-Core Structure Information
Udai SHIMADA[1#+], Hiromi OWADA[1], Munehiko YAMAGUCHI[1], Takeshi IRIGUCHI[1], Masahiro SAWADA[1], Kazumasa AONASHI[1], Mark DEMARIA[2]
[1]*Japan Meteorological Agency,* [2]*National Hurricane Center*

AS28-D3-PM1-P-015 AS28-A011
Correction of the Rain Rate Estimates of Ground Radar Using GPM/DPR Data
Tatsuya SHIMOZUMA[1#+], Shinta SETO[1]
[1]*Nagasaki University*

AS28-D3-PM1-P-016 AS28-A013
The Universal Scaling Characteristics of Tropical Oceanic Rain Clusters
Chee-Kiat TEO[1#+], Hoai Nguyen HUYNH[2], Tieh-Yong KOH[1], Kevin CHEUNG[3], Bernard LEGRAS[4], Lock Yue CHEW[5], Leslie NORFORD[6]
[1]*Singapore University of Social Sciences,* [2]*Agency for Science, Technology and Research (A*STAR),* [3]*Macquarie University,* [4]*National de la Recherche Scientifique (CNRS) / Ecole Normale Supérieure,* [5]*Nanyang Technological University,* [6]*Massachusetts Institute of Technology*

AS28-D3-PM1-P-017 AS28-A015
The Analysis of GPM Rainfall and its Application in Numerical Weather Prediction Model Evaluation
Xiangming SUN[1#+], Xiang-Yu HUANG[1], Christopher GORDON[1], Sijin ZHANG[1], Jerry Liu JIANYU[1], Song GUITING[1], Marion MITTERMAIER[2], Rachel NORTH[2]
[1]*Centre for Climate Research Singapore,* [2]*Met Office*

AS28-D3-PM1-P-018 AS28-A018
Land/Ocean Contrasts in Precipitation Characteristics Observed with the GPM DPR in Relationship to Column Relative Humidity
Yukari TAKAYABU[1#+], Marika ONO[1]
[1]*The University of Tokyo*

AS28-D3-PM1-P-019 AS28-A019
The Effect of Atmospheric Rivers on Japanese Heavy Precipitation
Naho SUETO[1#+], Akiyo YATAGAI[1], Yukari TAKAYABU[2]
[1]Hirosaki University, [2]The University of Tokyo

AS28-D3-PM1-P-020 AS28-A022
Reevaluation of the Orographic/Nonorographic Rainfall Classification Scheme in the GSMaP Algorithm for Microwave Radiometers
Munehisa K. YAMAMOTO[1#], Shoichi SHIGE[1+], Cheng-Ku YU[2], Lin-Wen CHENG[2]
[1]Kyoto University, [2]National Taiwan University

AS29-D3-PM1-P-015 AS29-A003
The Adjoint Sensitivity of Heavy Rainfall to Initial Conditions in Debris Flow Areas in China
Feifan ZHOU[1#+], Xiaopeng CUI[1]
[1]Chinese Academy of Sciences

AS29-D3-PM1-P-016 AS29-A006
Thermally Driven Circulations in Central Mountainous Area of Taiwan
Chia-Ying LIN[1#+], Fang-Yi CHENG[1]
[1]National Central University

AS29-D3-PM1-P-017 AS29-A007
Persistent Increase of Temperature and its Impact on Apple Cultivation: Study of Himachal Himalaya
Atul SAINI[1#+], Netrananda SAHU[1]
[1]University of Delhi

AS29-D3-PM1-P-018 AS29-A009
Case Study of a Long-Lived Taiwan Rainband During 1-3 March 2003
Cheng-Ku YU[1#+], Che-Yu LIN[1]
[1]National Taiwan University

AS29-D3-PM1-P-019 AS29-A010
Spatial Structure of Wind Resources Over Complex Terrain in Jeju Island, Korea
Dae-Young KIM[1#+], Yeon-Hee KIM[1], Baek-Jo KIM[2]
[1]National Institute of Meteorological Sciences, [2]National Institute of Meteorological Research

AS29-D3-PM1-P-020 AS29-A012
Observational Relationship Between the Precipitation and Terrain Features Over Taiwan in the Typhoon Environment
Jia-Cheng SYU[1#+], Cheng-Ku YU[1]
[1]National Taiwan University

AS29-D3-PM1-P-021 AS29-A017
The Changes of Summer Heavy Rainfall Frequency Associated with Typhoon in Taiwan
Jien-Yi TU[1#+], Chia-Zhen CHI[2]
[1]National Changhua University of Education, [2]Chinese Culture University

AS29-D3-PM1-P-022 AS29-A020
Topographic Effects on Structural Changes of Outer Tropical Cyclone Rainband in Northern Taiwan
Chia-Lun TSAI[1#+], Cheng-Ku YU[2]
[1]Kyungpook National University, [2]National Taiwan University

AS29-D3-PM1-P-023

AS29-A024

Numerical Investigation of Dynamic and Thermodynamic Effects on Formation of Convection Lines Off the Eastern Coast of Taiwan

Chien-Chuan CHAN[1], Pay-Liam LIN[1#], MuQun HUANG[1+], Shih-Chun CHOU[1]

[1]National Central University

AS31-D3-PM1-P-020

AS31-A003

Past and Future Changes of Wind Power Over the Bohai Sea and the Yellow Sea in China

Delei LI[1#+], Zhenhua XU[2], Baoshu YIN[2]

[1]Institute of Oceanology, Chinese Academy of Sciences, [2]Chinese Academy of Sciences

AS31-D3-PM1-P-021

AS31-A011

Evaluating Summer Climate Extremes Using Multiple High-Resolution Regional Climate Models Over Far East Asia

Changyong PARK[1#+], Dong-Hyun CHA[1], Seung-Ki MIN[2], Gayoung KIM[1], Gil LEE[1], Myoung-Seok SUH[3], Joong-Bae AHN[4], Hyun-Suk KANG[5], Dong-Kyou LEE[5,6], Song-You HONG[7]

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AS31-D3-PM1-P-022

AS31-A015

Future Projection of Summer Extreme Precipitation from High-Resolution Multi-RCMs Over East Asia

Gayoung KIM[1+], Changyong PARK[1], Dong-Hyun CHA[1#], Dong-Kyou LEE[2,3], Myoung-Seok SUH[4], Joong-Bae AHN[5], Seung-Ki MIN[6], Song-You HONG[7], Hyun-Suk KANG[3]

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AS31-D3-PM1-P-023

AS31-A025

Evaluation of SEACLID/CORDEX-SEA Multi-Model Simulations of Temperature Over Southeast Asia

Rochelle CORONEL[1#+], Lyndon OLAGUERA[2], Angela Monina MAGNAYE[1,2], Jennifer TIBAY[1,2], Darwin PEREZ[2], Shane Marie VISAGA[1], Emil GOZO[1], Gemma NARISMA[1,2], Faye Abigail CRUZ[1], Fredolin T. TANGANG[3,4], Juneng LIEW[3], Jerasron SANTISIRISOMBOON[4], Patama SINGHRUCK[5], Tan Van PHAN[6], Thanh NGO-DUC[6], Edvin ALDRIAN[7], Dodo GUNAWAN[7]

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AS31-D3-PM1-P-024

AS31-A028

Evaluation of Rainfall Simulations Over West Africa in Dynamically Downscaled CMIP5 Global Circulation Models

Akintomide Afolayan AKINSANOLA[1#+], Vicent Olanrewaju AJAYI[2], Adeyemi Temitope ADEJARE[2], Oluwafemi Ebenezer ADEYERI[2], Imole Ezekiel GBODE[2], Kehinde Olufunso OGUNJOBI[2], Grigory NIKULIN[3], Akintayo Temiloluwa ABOLUDE[1]

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AS31-D3-PM1-P-025

AS31-A029

Evaluation of Simulation Skills of RegCM4 for the Extreme Climate Over CORDEX East Asia Phase 2 Domain Including South Korea

Tae Jun KIM[1+], Myoung-Seok SUH[1#], Seok-Geun OH[1]

[1]Kongju National University

AS31-D3-PM1-P-026

AS31-A030

Sea Surface Temperature Influence in Regional Climate Downscaling: Analysis of SST Representation Using SEACLID/CORDEX-Southeast Asia Simulations

Angela Monina MAGNAYE[1,2+], Gemma NARISMA[1,2#], Faye Abigail CRUZ[2], Fredolin T. TANGANG[3,4]

[1]Ateneo de Manila University, [2]Manila Observatory, [3]National University of Malaysia, [4]Ramkhamhaeng University

AS31-D3-PM1-P-027

AS31-A035

Statistical Downscaling of CMIP5 GCMs for Projection of Future Climate Over Thailand Using Artificial Neural Network

Jerasron SANTISIRISOMBOON[1#+], Fredolin T. TANGANG[1,2], Jaruthat MILINDALEKHA S.[1], Waranyu WONGSAREE[3], Kamphol PROMJIRAPRAWAT[1], Yod SUKAMONGKOL[1], Prayat LEWAN[1]

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AS31-D3-PM1-P-028

AS31-A036

Changes in Mean Climate and Extremes Over Malaysia Based on Multi-Model Simulations of SECALID/CORDEX Southeast Asia

Ester SALIMUN[1#+], Fredolin T. TANGANG[1,2], Jing Xiang CHUNG[1], Ju Neng LIEW[1], Supari SUPARI[3], Gemma NARISMA[4], Tan Van PHAN[5], Thanh NGO-DUC[5], Jerasron SANTISIRISOMBOON[2], Patama SINGHRUCK[6], Dodo GUNAWAN[3], Edvin ALDRIAN[3], Grigory NIKULIN[7], Hongwei YANG[8]

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AS31-D3-PM1-P-029

AS31-A037

Bias Correction of Global and CORDEX East Asia Regional Climate Models Daily Precipitation and Surface Mean Temperature Simulations Over Southeast Asia Using Trend Preserving Quantile Mapping Method

Sheau Tieh NGAI[1#+], Fredolin T. TANGANG[1,2], Ju Neng LIEW[1]

[1]National University of Malaysia, [2]Ramkhamhaeng University

AS31-D3-PM1-P-030

AS31-A038

Variance Characteristics of Tropical Radiosonde Winds

Jing-Jin TIEO[1#+], Tieh-Yong KOH[2], Martin SKOTE[1], Srikanth NARASIMALU[1]

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AS31-D3-PM1-P-031

AS31-A043

Future Projection of Drought Characteristics in South Korea Simulated by Multi Regional Climate Models

Joong-Bae AHN[1#+], Yeon-Woo CHOI[1], Dong-Hyun CHA[2], Myoung-Seok SUH[3], Dong-Kyou LEE[4,5], Song-You HONG[6], Seung-Ki MIN[7], Hyun-Suk KANG[5], S.C. PARK[5]

[1]Pusan National University, [2]Ulsan National Institute of Science and Technology, [3]Kongju National University, [4]Seoul National University, [5]Korea Meteorological Administration, [6]Yonsei University, [7]Pohang University of Science and Technology

AS32-D3-PM1-P-009 AS32-A007
Investigation of the Sea Surface Fluxes for the Tropical Cyclone Evolution
Chian-Yi LIU[1#+], You-Cheng LAI[1], Shen-Cha HSU[1]
[1]National Central University

AS32-D3-PM1-P-010 AS32-A011
The Assessment of Taiwan Central Weather Bureau GFS Cloud Properties by Using Satellite Data
Meng-Yue LIN[1#+], Mei-Yu CHANG[2], Jen-Her CHEN[2], Chian-Yi LIU[1]
[1]National Central University, [2]Central Weather Bureau

AS32-D3-PM1-P-011 AS32-A013
Possibility of an Improved Total Ozone Information from the High Performance Geostationary Imager Data
Seung Min HA[1#+], Myoung Hwan AHN[1], Su Jeong LEE[1]
[1]Ewha Womans University

AS34-D3-PM1-P-018 AS34-A002
Characteristics and Sources of Summertime Ozone in China
Hao GUO[1], Jianlin HU[2], Qi YING[3], Hongliang ZHANG[1#+]
[1]Louisiana State University, [2]Nanjing University of Information Science & Technology, [3]Texas A&M University

AS34-D3-PM1-P-019 AS34-A007
Trends of Surface PM2.5 Over Beijing-Tianjin-Hebei in 2013-2015 and Their Causes: Emission Controls vs. Meteorological Conditions
Ying WEI[1#+], Jie LI[1]
[1]Chinese Academy of Sciences

AS34-D3-PM1-P-020 AS34-A008
Characterization of Black Carbon-Containing Fine Particles in Beijing During Wintertime
Junfeng WANG[1#+], Xinlei GE[1], Mindong CHEN[1], Yangzhou WU[1], Qingqing WANG[2], Jian ZHAO[2], Conghui XIE[2], Yingjie ZHANG[2], Weiqi XU[2], Hugh COE[3], James ALLAN[3], Dantong LIU[3], Rutambhara JOSHI[3], Douglas WORSNOP[4], P. FU[2], Yele SUN[2]
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AS34-D3-PM1-P-021 AS34-A009
Trans-Boundary Transport of Air Pollutants Over Northern China During the Summer Monsoon Season - A Case Study
Jiarui WU[1+], Guohui LI[1#], Junji CAO[1]
[1]Chinese Academy of Sciences

AS34-D3-PM1-P-022 AS34-A014
Relative Importance of Regional and Local Pollutant Sources in Deep Street Canyons
Gantuya GANBAT[1#+], Keith NGAN[1], K.K. HON[2]
[1]City University of Hong Kong, [2]Hong Kong Observatory

AS34-D3-PM1-P-023

AS34-A018

Accessing the Impact of Sea-Salt Emissions on Aerosol Chemical Formation and Deposition Over Pearl River Delta, China

Yiming LIU[1+], Shuting ZHANG[2], Qi FAN[1#], Dui WU[3], P.W. CHAN[4], Xuemei WANG[1], Shaojia FAN[1], Yerong FENG[5], Yingying HONG[6]

[1]Sun Yat-sen University, [2]Shenzhen Meteorological Service Center, [3]China Meteorological Administration, [4]Hong Kong Observatory, [5]Key Laboratory of Regional Numerical Weather Prediction, [6]Guangdong Ecological Meteorology Center

AS34-D3-PM1-P-024

AS34-A020

Distribution and Formation Mechanism of Vertical Ozone During High Tropospheric Ozone Event

Xiaoyang CHEN[1+], Yiming LIU[1], Anqi LAI[1], Shuangshuang HAN[2], Qi FAN[1#], Fuxiang HUANG[3]

[1]Sun Yat-sen University, [2]China University of Geosciences, [3]China Meteorological Administration

AS34-D3-PM1-P-025

AS34-A021

A Real-Time Emergency Response System for Maritime HNS Exposure Accident Near Korean Peninsula

Jiwon OH[1#+], Jaiho OH[1], Sinil YANG[1]

[1]Pukyong National University

AS34-D3-PM1-P-026

AS34-A029

Impacts of Local Circulations on the Air Pollution in Beijing-Tian-Hebei (BTH): A Case Study

Xiaopei LI[1#+]

[1]Xi'an Jiaotong University

AS35-D3-PM1-P-013

AS35-A004

Glacier Melt in the Central Tibetan Plateau

Xiaofei LI[1+], Shichang KANG[1#], Xiaobo HE[1], Bin QU[2], Lekhendra TRIPATHEE[1], Zhefan JING[1], Rukumesh PAUDYAL[1], Yang LI[1], Yulan ZHANG[1], Pangping YAN[2], Gang LI[3], Chaoliu LI[1]

[1]Chinese Academy of Sciences, [2]Lappeenranta University of Technology, [3]China Meteorological Administration

AS35-D3-PM1-P-014

AS35-A009

Modeling the Origin of Anthropogenic Black Carbon and its Radiative Feedback Over the Tibetan Plateau and Surrounding Regions

Junhua YANG[1#+], Zhenming JI[1], Shichang KANG[1]

[1]Chinese Academy of Sciences

AS35-D3-PM1-P-015

AS35-A011

Characterizations of Atmospheric Particulate-Bound Mercury in the Kathmandu Valley of Nepal, South Asia

Junming GUO[1#+], Shichang KANG[1], Jie HUANG[1], Qianggong ZHANG[1], Maheswar RUPAKHETI[2], Shiwei SUN[1], Lekhendra TRIPATHEE[1], Dipesh RUPAKHETI[1], Arnico PANDAY[3,4], Mika SILLANPÄÄ[5], Rukumesh PAUDYAL[1]

[1]Chinese Academy of Sciences, [2]Institute for Advanced Sustainability Studies (IASS), [3]International Centre for Integrated Mountain Development, [4]University of Virginia, [5]Lappeenranta University of Technology

AS35-D3-PM1-P-016

AS35-A015

The Role of Melting Alpine Glaciers in Mercury Export and Transport: An Intensive Sampling Campaign in the Qugaqie Basin, Inland Tibetan Plateau

Xuejun SUN[1#+], Qianggong ZHANG[1]

[1]*Chinese Academy of Sciences*

AS35-D3-PM1-P-017

AS35-A016

Surface Ozone at Nam Co (4730 m a.s.l.) in the Inland of the Tibetan Plateau: Variation, Synthesis Comparison and Regional Representativeness

Xiufeng YIN[1], Shichang KANG[1], Jiali LUO[2], Lang ZHANG[1], Yaoming MA[1], Zhiyuan CONG[1], Guoshuai ZHANG[1], Benjamin DE FOY[3], Qianggong ZHANG[1#+]

[1]*Chinese Academy of Sciences,* [2]*Lanzhou University,* [3]*Saint Louis University*

AS35-D3-PM1-P-018

AS35-A018

Humic-Like Substances in the Aerosols of Central Tibetan Plateau (Nam Co, 4730 M A.s.l.): Abundance, Light Absorption Properties, Climatic Impact

Guangming WU[1#+], Xin WAN[1,2], Shichang KANG[1], Zhiyuan CONG[1]

[1]*Chinese Academy of Sciences,* [2]*University of Chinese Academy of Sciences*

AS35-D3-PM1-P-019

AS35-A019

Chemical and Physical Characteristics of Long-Range Transport Submicron Particles at the Central Tibet Plateau

Jianzhong XU[1#+], Qi ZHANG[2], Jinsen SHI[3], Xinlei GE[4], Conghui XIE[1], Junfeng WANG[4]

[1]*Chinese Academy of Sciences,* [2]*University of California, Davis,* [3]*Lanzhou University,* [4]*Nanjing University of Information Science & Technology*

AS35-D3-PM1-P-020

AS35-A020

Chemical Composition of Dissolved Organic Matter During Ablation Season in a Glacier of Central Tibet Plateau

Lin FENG[1#+], Yanqing AN[1], Jianzhong XU[1], Shichang KANG[1], Xiaofei LI[1]

[1]*Chinese Academy of Sciences*

AS35-D3-PM1-P-021

AS35-A023

Spatial and Temporal Variations of Chemical Components in Aerosols Collected at Four Sites Over the Central Himalayas, Nepal

Lekhendra TRIPATHEE[1+], Shichang KANG[1#], Qianggong ZHANG[1], Dipesh RUPAKHETI[1], Jie HUANG[1]

[1]*Chinese Academy of Sciences*

AS35-D3-PM1-P-022

AS35-A024

Spatial Distribution and Variation of Mercury in Xiao Dongkemadi Glacier, Central Tibetan Plateau

Rukumesh PAUDYAL[1+], Shichang KANG[1#], Jie HUANG[1], Qianggong ZHANG[1], Lekhendra TRIPATHEE[1], Xiaofei LI[1], Junming GUO[1], Mika SILLANPÄÄ[2]

[1]*Chinese Academy of Sciences,* [2]*Lappeenranta University of Technology*

AS35-D3-PM1-P-023

AS35-A025

Concentration of Light Absorbing Aerosol in Snow/Ice, Albedo Reduction, Possible Source Regions and Uncertainties

Chaman GUL[1+], Shichang KANG[2#], Siva Praveen PUPPALA[3], Bhupesh ADHIKARY[3], Inka KOCH[3], Yulan ZHANG[2]

[1]*CAREERI and International Centre for Integrated Mountain Development,* [2]*Chinese Academy of Sciences,* [3]*International Centre for Integrated Mountain Development*

AS35-D3-PM1-P-024 AS35-A026
Fukushima Accident Radioactive Fallout a New Dating Horizon for High Altitude Glacier Studies in Central Asia
Feiteng WANG[1#+]
[1]*Chinese Academy of Sciences*

AS36-D3-PM1-P-018 AS36-A004
The Relationship Between Lasting Heavy Precipitation Events and Location of Mei-Yu Fronts
Wei-Ting HUNG[1#+], Sarah LU[1], Yi-Chiang YU[2], Yi-Chao WU[2]
[1]*University at Albany, State University of New York,* [2]*National Science and Technology Center for Disaster Reduction*

AS36-D3-PM1-P-019 AS36-A005
Marginal Sea Variation as a Pre-Cursor of Heat Waves Over the Korean Peninsula
Hyeyun NA[1+], Yoo-Geun HAM[1#]
[1]*Chonnam National University*

AS36-D3-PM1-P-020 AS36-A008
Ultra-High Resolution Numerical Weather Prediction with a Large Model Domain
Tsutao OIZUMI[1#+], Kazuo SAITO[2], Le DUC[1], Junshi ITO[3]
[1]*Japan Agency for Marine-Earth Science and Technology,* [2]*Japan Meteorological Agency,* [3]*Meteorological Research Institute*

AS36-D3-PM1-P-021 AS36-A010
Simulation of Aerosol Effect on Tropical Cyclones Using the NTU Cloud Microphysics Scheme
Yi-Chiu LIN[1#+], Jen-Ping CHEN[2]
[1]*Taiwan Typhoon and Flood Institute, National Applied Research Laboratories,* [2]*National Taiwan University*

AS36-D3-PM1-P-022 AS36-A012
Droughts and Floods Over South Korea: Synoptic and Large-Scale Atmospheric Circulation Structure and Their Mechanisms
Jina PARK[1#+]
[1]*Gwangju Institute of Science and Technology*

AS36-D3-PM1-P-023 AS36-A013
A Study on Estimating Maximum Wind Speed by Typhoons Affecting the Korean Peninsula
Jong-Kil PARK[1], Woo-Sik JUNG[1,2#+], Eun-Byul KIM[1], Hana NA[1]
[1]*Inje University,* [2]*The Korean Environmental Sciences Society*

AS36-D3-PM1-P-024 AS36-A014
Analysis and Retrieval of Drop Size Distribution in 2016 Taipei Summer Storm Experiment
Zhao-Cheng ZENG[1#+], Pay-Liam LIN[1], Tai-Chi CHEN WANG[1]
[1]*National Central University*

AS36-D3-PM1-P-025 AS36-A015
Simulations of Tropical Cyclones with a Vortex Initialization Scheme Using the Weather Research and Forecasting Model (WRF)
Shih-Chun CHOU[1#+], Pay-Liam LIN[1], Yi-Leng CHEN[2], Chuan-Chi TU[1]
[1]*National Central University,* [2]*University of Hawaii at Manoa*

AS36-D3-PM1-P-026 AS36-A016
Assess the Power Generation Performance of Wind Turbines Using Lidar Observation and WRF Simulations
Syuan-Cing WU[1#+], Pay-Liam LIN[1], Ren-Yow TZENG[1]
[1]National Central University

AS36-D3-PM1-P-027 AS36-A020
Evaluating the Performance of Microphysics Schemes in Cloud-Resolving Ensemble Forecasts: A Case Study of Mei-Yu Front Over Taiwan Area
Chin-Hung CHEN[1#+]
[1]National Central University

AS36-D3-PM1-P-028 AS36-A022
Impact on Users' Economic Value When Decision is Based on Biased Forecasts
Hui-Ling CHANG[1,2#+], Shu-Chih YANG[2]
[1]Central Weather Bureau, [2]National Central University

AS36-D3-PM1-P-029 AS36-A023
Trends of Precipitation in Different Seasons Over Taiwan During 1961-2015
Yi-Chen TSAI[1#+], Shaw Chen LIU[2], Pay-Liam LIN[1]
[1]National Central University, [2]Academia Sinica

AS36-D3-PM1-P-030 AS36-A025
Examination of Forecast Errors at Mesoscale and Convective Scale in the Context of the Ensemble Scheme: A Case Study of the Mei-Yu Front Over Taiwan Area
Li-Hsin CHEN[1], Ching-Yin KE[1#+], Kaoshen CHUNG[1]
[1]National Central University

AS36-D3-PM1-P-031 AS36-A027
High Resolution Urban Data Construction and Application to WRF-UCM and WRF-LES Simulations
Shuwei HSU[1#+], Wei-Ching WANG[1], Syuan-Cing WU[1], Pay-Liam LIN[1]
[1]National Central University

AS36-D3-PM1-P-032 AS36-A029
Diurnal Variation Analysis of Mesonet Data in New York State – PIRE Student Research Project
Syuan-Cing WU[1#+], Everette JOSEPH[2], Pay-Liam LIN[1], Nick BASSILL[2]
[1]National Central University, [2]University at Albany, State University of New York

AS36-D3-PM1-P-033 AS36-A030
Low Level Jets Measurements with Doppler LIDAR at SUNY, Albany
Zhao-Cheng ZENG[1#+], Bhupal SHRESTHA[2], Everette JOSEPH[2], Pay-Liam LIN[1]
[1]National Central University, [2]University at Albany, State University of New York

AS36-D3-PM1-P-034 AS36-A033
The Sensitivity of Nucleation Parameterization on Non-Spherical Ice Growth: Consequences for Extreme Precipitation
Kara SULIA[1#+], Lauriana GAUDET[1]
[1]University at Albany, State University of New York

AS40-D3-PM1-P-018

AS40-A004

The Dynamics of Fine Mode Aerosol Optical Properties in South Korea from Aeronet Observations with a Focus on Cases with Large Cloud Fraction And/Or Fog During KORUS-AQ

Thomas ECK[1#+], Brent HOLBEN[1], Jhoon KIM[2], Myungje CHOI[2], David GILES[1,3], Joel SCHAFER[1], Alexander SMIRNOV[1,3], Aliaksandr SINYUK[1], Ilya SLUTSKER[1,3], Mikhail SOROKIN[1], Jason KRAFT[1], James CRAWFORD[4]

[1]NASA Goddard Space Flight Center, [2]Yonsei University, [3]Sigma Space Corporation, [4]NASA Langley Research Center

AS40-D3-PM1-P-019

AS40-A011

Additional Cloud Masking of GOCI Yonsei Aerosol Optical Properties Retrieval Using AHI IR Cloud Masking and Analysis During the 2016 KORUS-AQ Campaign

Myungje CHOI[1#+], Hyunkwang LIM[1], Jhoon KIM[1], Seoyoung LEE[1], Jaehwa LEE[2], Mijin KIM[1], Brent HOLBEN[2], Thomas ECK[2]

[1]Yonsei University, [2]NASA Goddard Space Flight Center

AS40-D3-PM1-P-020

AS40-A017

GeoTASO Measurements of NO2, HCHO, O3, SO2, and HCOHCO During the KORUS-AQ Campaign

Scott JANZ[1#+], Matthew KOWALEWSKI[1], Caroline NOWLAN[2], Laura JUDD[3]

[1]NASA Goddard Space Flight Center, [2]Harvard University, [3]NASA Langley Research Center

AS40-D3-PM1-P-021

AS40-A018

Diurnal and Vertical Structure: Interlocking Issues for Aerosol Forecasting in the KORUS Domain

Edward HYER[1#+], James CAMPBELL[1], Peng XIAN[1], David PETERSON[1], Mayra OYOLA[2]

[1]Naval Research Laboratory, [2]American Society for Engineering Education

AS40-D3-PM1-P-022

AS40-A023

Surface Meteorology and Boundary-Layer Structures in Seoul, Korea During the KORUS-AQ

Moon-Soo PARK[1#+], Jung-Hoon CHAE[1], Min-Hyeok CHOI[1], Yunyoung SONG[1], Sung-Hwa PARK[1], Joon-Woo ROH[1]

[1]Hankuk University of Foreign Studies

AS40-D3-PM1-P-023

AS40-A026

Validation of Aerosol Optical Depth from MI Yonsei Aerosol Retrieval Algorithm (YAER) During KORUS-AQ Campaign

Mijin KIM[1#+], Jhoon KIM[1], Jong-Min YOON[2], Chu-Yong CHUNG[3], Sung-Rae CHUNG[3]

[1]Yonsei University, [2]Max Planck Institute of Chemistry, [3]Korea Meteorological Administration

AS40-D3-PM1-P-024

AS40-A029

Description of Advanced Himawari Imager (AHI) Yonsei Aerosol Retrieval Algorithm Version 1

Hyunkwang LIM[1#+], Jhoon KIM[1], Myungje CHOI[1], Sujung GO[1], P.W. CHAN[2], Yasuko KASAI[3]

[1]Yonsei University, [2]Hong Kong Observatory, [3]National Institute of Information and Communications Technology

AS40-D3-PM1-P-025 AS40-A031
Analysis of Pandora NO2 Measurements in South Korea During the KORUS-AQ Campaign
Heesung CHONG[1#+], Jhoon KIM[1], Woogyung KIM[1], Hana LEE[1], Jung Hyun KIM[1], Myungje CHOI[1], Ukkyo JEONG[2], Ja-Ho KOO[1], Jay HERMAN[2], Nader ABUHASSAN[2], Seungun LEE[3], Rokjin J. PARK[3], Jun-Young AHN[4], Jeong-Hoo PARK[4], Ji-Hyung HONG[4], Sang-Kyun KIM[4]
[1]Yonsei University, [2]NASA Goddard Space Flight Center, [3]Seoul National University, [4]National Institute of Environmental Research

AS40-D3-PM1-P-026 AS40-A034
Update and Evaluation of Biogenic Emission Modeling in South Korea Using KORUS-AQ Campaign Observations
Jinhyeok YU[1+], Kyunghwa LEE[1], Sojin LEE[2], Chul Han SONG[1#]
[1]Gwangju Institute of Science and Technology, [2]National Center for Atmospheric Research

AS40-D3-PM1-P-027 AS40-A037
The Scene Inhomogeneity Impact on the Wavelength Calibration of GeoTASO Measurement
Mina KANG[1#+], Myoung Hwan AHN[1], Xiong LIU[2]
[1]Ewha Womans University, [2]Harvard University

AS41-D3-PM1-P-016 AS41-A001
Total Column Ozone, Water Vapor and Aersol Optical Thickness Over Ahmedabad and Mt. Abu Region
Som Kumar SHARMA[1#+], Krishna SHUKLA[1], Rajesh VAISHNAV[1]
[1]Physical Research Laboratory

AS41-D3-PM1-P-017 AS41-A022
Identifying Carbonaceous Contents in Rainwater at an Urban Background Site, Delhi, India
Saurabh SONWANI[1#+], Umesh KULSHRESTHA[1]
[1]Jawaharlal Nehru University

AS41-D3-PM1-P-018 AS41-A023
Middle Atmospheric Thermal Structure Variations Over Western Indian Region
Rajesh VAISHNAV[1#+], Som Kumar SHARMA[1], Prashant KUMAR[2], Shikha RAIZADA[3], Saurabh SONWANI[4]
[1]Physical Research Laboratory, [2]Space Applications Centre, [3]SRI International, [4]Jawaharlal Nehru University

AS41-D3-PM1-P-019 AS41-A028
Size Segregated Aerosols Chemistry in Ambient Atmosphere of New Delhi, India
Pawan KUMAR[1], Sushil KUMAR[1], Sudesh YADAV[1#+]
[1]Jawaharlal Nehru University

AS42-D3-PM1-P-013 AS42-A003
Information Content Analysis of Space-Borne Polarization Measurements for Aerosol Retrievals
Weizhen HOU[1+], Zhengqiang LI[1#], Xingfeng CHEN[1], Lili QIE[1]
[1]Chinese Academy of Sciences

AS42-D3-PM1-P-014	AS42-A008 Air Particulate Matter (APM) Emissions from Agricultural Waste (Rice Straw) Burning in the Philippines: Emission Factor Testing and Estimation of Nationwide PM2.5 Emissions Hezron GIBE[1#+], Mylene CAYETANO[1] *[1]University of the Philippines Diliman*
AS42-D3-PM1-P-015 Invited	AS42-A014 Volatile Organic Compound Emissions in South China Sea/East Sea During the 2011 Vasco Cruise: Emission Ratios and Source Apportionment Gabrielle Frances LEUNG[1#+], Annelle Raphayette CHUA[1], Maria Obiminda CAMBALIZA[1,2], Melliza CRUZ[2], Jeffrey REID[3], James SIMPAS[2], Nofel LAGROSAS[2,4], Donald BLAKE[5], Sherdon Niño UY[2] *[1]Ateneo de Manila University, [2]Manila Observatory, [3]Naval Research Laboratory, [4]Chiba University, [5]University of California, Irvine*
AS42-D3-PM1-P-016 Invited	AS42-A018 Fine Particulate Matter During New Year from 2003 to 2017 Around Marikina Valley, Metro Manila Genevieve LORENZO[1#+], James SIMPAS[1], Nofel LAGROSAS[1,2], Melliza CRUZ[1], Maria Obiminda CAMBALIZA[1,3], Paola Angela BANAGA[3], Jose Ramon VILLARIN[3] *[1]Manila Observatory, [2]Chiba University, [3]Ateneo de Manila University*
AS42-D3-PM1-P-017	AS42-A024 Global Evaluation of MODIS 10km Aerosol Product Over Land Qingxin WANG[1+], Yanfang MING[1#], Lin SUN[1], Jing WEI[1], Ruibo LI[1], Yikun YANG[1] *[1]Shandong University of Science and Technology*

BG Poster Presentations

Wed - 09 Aug, 14:00 - 15:30 | Summit

BG01-02-D3-PM1-P-009	BG01-02-A008 Nitrous Oxide and Methane Emissions from Paddy Soils as Affected by Wet Irrigation and Dicyandiamide Application Guangbin ZHANG[1#+] *[1]Chinese Academy of Sciences*
BG01-02-D3-PM1-P-010	BG01-02-A009 The Characteristics of Methane Flux with Eddy Covariance Method Over Irrigated Rice Fields in East China Hongxing GE[1+], Hongsheng ZHANG[1#], He ZHANG[1], Xuhui CAI[1], Yu SONG[1], Ling KANG[1] *[1]Peking University*
BG01-02-D3-PM1-P-011	BG01-02-A010 Methane Soil Flux Estimates Using Mobile and High Precision Cavity Ring-Down Spectroscopy David KIM-HAK[1#+] *[1]Picarro Inc.*
BG03-D3-PM1-P-007	BG03-A003 Chromophoric Dissolved Organic Matter (CDOM) Distribution and Dynamics in the Indian Sundarbans Mangrove Wetland – A Baseline Report During November, 2016 Prasun SANYAL[1+], Vandana KUMARI GUPTA[1], Sayan DEY[1], Sandip MUKHOPADHYAY[1#] *[1]University of Calcutta*
BG03-D3-PM1-P-008	BG03-A006 Nitrogen Fixing Heterotrophic Bacterial Community Along the South Eastern Arabian Sea (Seas) Mohamed Hatha A. A.[1#+], Jabir THAJUDEEN[1], Jesmi YOUSUF[1], Vipindas T. V.[1] *[1]Cochin University of Science and Technology*
BG03-D3-PM1-P-009	BG03-A008 Theoretical Solution of Nitracline with the Evolution of Subsurface Chlorophyll Maximum in South China Sea Xiang GONG[1#+] *[1]Qingdao University of Science and Technology*
BG03-D3-PM1-P-010	BG03-A010 Monitoring of Increased Pollutant Loading and its Impact on the Environmental Condition of a Coastal Lagoon with Ammonia as a Proxy Areen SEN[1#+], Punyasloke BHADURY[1] *[1]Indian Institute of Science Education and Research, Kolkata*
BG04-D3-PM1-P-008	BG04-A001 Dissolution Behavior of Natural Origin Heavy Metals from Soils by Microbial Consortium Yoshishige KAWABE[1#+], Suto KOICHI[2] *[1]National Institute of Advanced Industrial Science and Technology, [2]Tohoku University*

BG04-D3-PM1-P-009
BG04-A005
Temporal Variability of Canopy Light Use Efficiency and its Environmental Controls in a Subtropical Mangrove Wetland
Xudong ZHU[1#+]
[1]*Xiamen University*

BG04-D3-PM1-P-010
BG04-A006
Spatial and Temporal Variations of Surface Chlorophyll and Particulate Organic Carbon Concentrations in the Bohai-Yellow Sea
Hang FAN[1+], Xiujun WANG[1,2#], Zhitong YU[1,3]
[1]*Beijing Normal University,* [2]*University of Maryland,* [3]*Xinjiang Institute of Ecology and Geography, Chinese Academy of Sciences*

BG04-D3-PM1-P-011
BG04-A007
Vernal Distribution and Turnover of Dimethylsulfide (DMS) in the Surface Water of the Yellow Sea
Chengxuan LI[1#+]
[1]*The First Institute of Oceanography, State Oceanic Administration*

BG04-D3-PM1-P-012
BG04-A008
Biogenic Emission of Short-Lived Halocarbons by Selected Tropical Marine Microalgae
Yong Kian LIM[1+], Siew Moi PHANG[1#], Fiona Seh-Lin KENG[1], Nurain Nasuha MUSTAZA[1], Noorsaadah ABDUL RAHMAN[1], Emma LEEDHAM ELVIDGE[2], William STURGES[2], Gill MALIN[2]
[1]*University of Malaya,* [2]*University of East Anglia*

BG04-D3-PM1-P-013
BG04-A009
The Effect of Temperature on Halocarbon Emission by Selected Tropical Marine Microalgae
Nurain Nasuha MUSTAZA[1+], Siew Moi PHANG[1#], Fiona Seh-Lin KENG[1], Yong Kian LIM[1], Noorsaadah ABDUL RAHMAN[1], Emma LEEDHAM ELVIDGE[2], William STURGES[2], Gill MALIN[2]
[1]*University of Malaya,* [2]*University of East Anglia*

BG04-D3-PM1-P-014
BG04-A010
Production of Haloperoxidases in Selected Tropical Seaweeds
Thillai PUNITHA[1+], Siew Moi PHANG[1#], Fiona Seh-Lin KENG[1], Noorsaadah ABDUL RAHMAN[1], Emma LEEDHAM ELVIDGE[2], William STURGES[2], Gill MALIN[2], Joon Ching JUAN[1]
[1]*University of Malaya,* [2]*University of East Anglia*

BG04-D3-PM1-P-015
BG04-A011
Relative Turbulent Transport Efficiency and Flux-Variance Relationships of Temperature, Humidity, and CO2
Cheng-I HSIEH[1#+]
[1]*National Taiwan University*

BG04-D3-PM1-P-016
BG04-A013
Geochemical Settings of Microbial Biomes in Serpentinizing Springs of the Philippines
D'Arcy MEYER-DOMBARD[1#+], Dawn CARDACE[2], Kristin WOYCHEESE[3], Emmanuel CODILLO[4], Timothy IRINGAN[4], Nicole PELLEJERA-ORUGA[4], Gamaliel Lysander CABRIA[4], Carlo ARCILLA[4]
[1]*University of Illinois at Chicago,* [2]*University of Rhode Island,* [3]*Massachusetts Institute of Technology,* [4]*University of the Philippines Diliman*

BG04-D3-PM1-P-017

BG04-A014

Agent-Based Model of Mangrove Forest Regrowth

Andrew Vince LORBIS[1#], Vincent Paul FIESTADA[1+], Vena Pearl BONGOLAN[1]

[1]University of the Philippines Diliman

BG04-D3-PM1-P-018

BG04-A016

Serpentinizing Springs in the Philippines as Astrobiology Analogs for Mars and Beyond

Kristin WOYCHEESE[1,2#+], D'Arcy MEYER-DOMBARD[3], Dawn CARDACE[4], Emmanuel CODILLO[5], Gamaliel Lysander CABRIA[5], Timothy IRINGAN[5], Carlo ARCILLA[5], Shuhei ONO[1]

[1]Massachusetts Institute of Technology, [2]National Aeronautics and Space Administration, [3]University of Illinois at Chicago, [4]University of Rhode Island, [5]University of the Philippines Diliman

BG04-D3-PM1-P-019

BG04-A017

Dynamics of Soil Organic and Inorganic Carbon in Wheat-Maize Cropland of North China Plain

Huijin SHI[1#+], Xiujun WANG[1,2]

[1]Beijing Normal University, [2]University of Maryland

BG04-D3-PM1-P-020

BG04-A023

Prevalence and Ecological Risk of Antibiotics in Peninsular Malaysian Aquaculture

Ee Lean THIANG[1#+], Choon Weng LEE[1], Lay Ching CHAI[1], Rui Jie ZHANG[2], Gan ZHANG[3], Chui Wei BONG[1]

[1]University of Malaya, [2]Guangxi University, [3]Chinese Academy of Sciences

BG04-D3-PM1-P-021

BG04-A024

Spatial Clustering of Dengue Epidemic in the Southern Taiwan and its Association with Surrounding Greenness

Yinq-Rong CHERN[1], Chi-Chieh HUANG[1+], Nai-Tzu CHEN[2], Chih-Da WU[1#]

[1]National Chiayi University, [2]National Health Research Institutes

BG04-D3-PM1-P-022

BG04-A025

Effects of Surrounding Greenness on Asthma - A Case Study of Kaohsiung Area

Yi-Tsai CHANG[1+], Wen-Chi PAN[2], Yinq-Rong CHERN[1], Chih-Da WU[1#]

[1]National Chiayi University, [2]National Yang-Ming University

Presentations
10 Aug, 2017
Thursday

Day 4 - 10 Aug 2017, Thursday
Program Overview

10 Aug 2017, Thursday					
Time / Room	AM1	AM2	Lunch	PM1	PM2
	08:30 - 10:30	11:00 - 12:30	12:30 - 14:00	14:00 - 15:30	16:00 - 18:00
MR308	AS02 (p250)	AS02 (p251)		AS29 (p260)	AS29 (p261)
MR309	AS40 (p263)	AS40 (p264)		AS40 (p265)	AS27 (p259)
MR310	PS09 (p283)	PS12-ST23 & PS12-ST23 (p289)		PS12-ST23 & PS12-ST23 (p289)	PS10 (p284)
MR311	PS14-16 (p287)	PS03 (p281)		PS03 (p282)	PS14-16 (p287)
MR327	HS14 (p272)	HS14 (p273)		HS18 (p273)	HS20 (p274)
MR328	ST02 (p291)	ST02 (p292)		ST10-03-17-19 (p293)	ST10-03-17-19 (p293)
MR329	ST18 (p296)	ST18 (p297)		ST12 (p294)	ST12 (p295)
MR330	OS03 (p280)	OS DL (p14)	OS Meeting	Public Lecture 2 (p26)	SS11 (p301)
MR331	SE16 (p299)	SE DL (p20)	SE Meeting	SS09 (p300)	SS02 (p300)
MR332	IG01 (p276)	IG01 (p277)		IG06 (p278)	IG04 (p277)
MR333	AS21 (p254)	AS21 (p255)		AS21 (p255)	AS36 (p262)
MR334	AS04 (p251)	AS04 (p252)		AS04 (p253)	AS41 (p266)
MR335	BG01-02 (p268)	BG06-07 (p270)		BG06-07 (p271)	BG04 (p269)
MR336	AS24 (p257)	AS24 (p258)		AS24 (p259)	AS23 (p256)
Summit				OS Posters (p302) SE Posters (p314)	

Sessions & Conveners
* Main Convener

AS02 **Mesoscale Meteorology and High-impact Weather**
*Tieh-Yong KOH *Singapore University of Social Sciences*, Chung-Chieh WANG *National Taiwan Normal University*, Kevin CHEUNG *Macquarie University*, Chee-Kiat TEO *Singapore University of Social Sciences*

AS04 **Middle Atmosphere Science**
*Shigeo YODEN *Kyoto University*, Zeyu CHEN *Chinese Academy of Sciences*, Hye-Yeong CHUN *Yonsei University*, S. K. DHAKA *University of Delhi*

AS21 **Madden - Julian Oscillation and Its Impacts**
*Ziniu XIAO *Chinese Academy of Sciences*, Jian LING *Chinese Academy of Sciences*, Shuguang WANG *Columbia University*, Wen ZHOU *City University of Hong Kong*, Chidong ZHANG *National Oceanic and Atmospheric Administration*

AS23 **Passive and Active Remote Sensing of the Chemistry and Dynamics of the Middle and Upper Atmosphere**
*Patrick ESPY *Norwegian University of Science and Technology*, Iain REID *ATRAD Pty Ltd*, Jeng-Hwa YEE *Johns Hopkins University*

AS24 **Utilizing the Cloud-resolving Models for Studying Cloud-related Processes in Global Model / Climate Simulation**
*Chung-Hsiung SUI *National Taiwan University*, Masaki SATOH *The University of Tokyo*, Wei-Kuo TAO *NASA Goddard Space Flight Center*, Pay-Liam LIN *National Central University*, Chuanfeng ZHAO *Beijing Normal University*

AS27 **Aerosol-Fog Interactions: Theoretical, Observational and Modeling Studies**
*Charles C.K. CHOU *Academia Sinica*, Tzung-May FU *Peking University*

AS29 **Mountain Effects on Airflow, Precipitation, and Weather Systems**
*Cheng-Ku YU *National Taiwan University*, Tetsuya TAKEMI *Kyoto University*, Gyu Won LEE *Kyungpook National University*, Zhiyong MENG *Peking University*, Ching-Yuang HUANG *National Central University*

AS36 **Extreme Weather Resiliency: Prediction and Response Strategies**
*Everette JOSEPH *University at Albany, State University of New York*, Pay-Liam LIN *National Central University*, Ming-Jen YANG *National Taiwan University*, Shanka Lal GARG *Disaster Advances*, Ashwajeet GARG *World Research Journals*

AS40 **Results from the 2016 KORUS-AQ and Related Field Studies in Asia**
*James CRAWFORD *NASA Langley Research Center*, Cheol-Hee KIM *Pusan National University*, Louisa EMMONS *National Center for Atmospheric Research*, Chang-Keun SONG *National Institute of Environmental Research*, Xinrong REN *NOAA Air Resources Laboratory*

AS41 **Exploration and Science of the Earth's Lower and Middle Atmosphere: Past, Present and Future Perspectives**
*Som Kumar SHARMA *Physical Research Laboratory*, Shikha RAIZADA *Arecibo Observatory, Puerto Rico, USA*, Krishna SHUKLA *Physical Research Laboratory*, Sumit Kumar MISHRA *CSIR-National Physical Laboratory*, P K RAJESH *National Central University*

BG01-02 **Current Status of Greenhouse Gases Emissions in Asian and World Terrestrial Ecosystems**
*Masayuki KONDO *Chiba University*, Hiroshi TAKAGI *National Institute for Environmental Studies*, Xianglan LI *Beijing Normal University*, Guangbin ZHANG *Chinese Academy of Sciences*

BG04 **General Session**
*Xiujun WANG *Beijing Normal University*, Prabir PATRA *Japan Agency for Marine-Earth Science and Technology*, Choon Weng LEE *University of Malaya*, Chui Wei BONG *University of Malaya*

BG06-07 **Monitoring and Understanding the State of the Biosphere through Satellites and Modeling**
*Prabir PATRA *Japan Agency for Marine-Earth Science and Technology*, Florian M. SCHWANDNER *Jet Propulsion Laboratory/ California Institute of Technology (Caltech)*, Long CAO *Zhejiang University*, Yongfu XU *Chinese Academy of Sciences*, Atul JAIN *University of Iliinois*

HS14 **Urban Water-related Disasters**
*Akira KAWAMURA *Tokyo Metropolitan University*, So KAZAMA *Tohoku University*, Sudhindra PANDA *National Institute of Technical Teachers Training and Research*

HS18 **Assessment of Extreme Erosion Processes and Hydrological Drivers in Austral-Asia**
*Roy SIDLE *University of the Sunshine Coast*, Alan ZIEGLER *National University of Singapore*, Ben JARIHANI *University of the Sunshine Coast*

HS20 **Modeling and Analysis of Hydrologic Processes in the Context of Climate Change**
*Van-Thanh-Van NGUYEN *McGill University*, Shie-Yui LIONG *National University of Singapore*, Philippe GOURBESVILLE *University of Nice Sophia Antipolis*

IG01 **Natural Hazards: Understanding Disaster Risk**
*James TERRY *Zayed University*, James GOFF *University of New South Wales*, Nigel WINSPEAR *SCOR Global P&C*, Vena Pearl BONGOLAN *University of The Philippines, Diliman*, Vena Pearl BONGOLAN *University of the Philippines Diliman*

IG04 **General Session**
*Kazuhisa GOTO *Tohoku University*, James GOFF *University of New South Wales*

IG06 **Research-based Practical Techniques and Applications in Earthquake and Tsunami Risk Reduction**
*Anawat SUPPASRI *Tohoku University*, Natt LEELAWAT *Chulalongkorn University*, Panon LATCHAROTE *Tohoku University*, Mongkonkorn SRIVICHAI *Rajamangala University of Technology Lanna*

OS03 **Oceanic Energy Cascade and Mixing**
*Zhiyu LIU *Xiamen University*, Robin ROBERTSON *University of New South Wales*, Chuanyu LIU *Chinese Academy of Sciences*, Taira NAGAI *The University of Tokyo*

PS03 **Solar Wind Interaction with Planetary Environments**
*Dominique DELCOURT *French National Centre for Scientific Research*, Kanako SEKI *The University of Tokyo*, Robert LILLIS *University of California, Berkeley*, Pontus BRANDT *The Johns Hopkins University Applied Physics Laboratory*, Yasumasa KASABA *Tohoku University*

PS09 **Atmospheres and Interiors of Jupiter and Saturn**
*Keke ZHANG *University of Exeter*, Kwing Lam CHAN *Macau University of Science & Technology*

PS10 **Comparative Aeronomy of Solar System Bodies**
*Jun CUI *Sun Yat-sen University*, Robert LILLIS *University of California, Berkeley*, Anne WELLBROCK *University College London*, Wei-Ling TSENG *National Taiwan Normal University*

PS12-ST23 **Future and Current Space Missions and Instrumentation for Space and Planetary Science**
*Takeshi SAKANOI *Tohoku University*, Yoshifumi SAITO *Japan Aerospace Exploration Agency*, Andrew YAU *University of Calgary*, Jongho SEON *Kyung Hee University*

PS14-16 **Science and Exploration of the Moon and Mercury**
*Jorn HELBERT *German Aerospace Center (DLR)*, Makiko OHTAKE *Japan Aerospace Exploration Agency*, Gordon CHIN *NASA Goddard Space Flight Center*, Kyeong Ja KIM *Korea Institute of Geoscience and Mineral Resources*, Long XIAO *China University of Geosciences*

PS12-ST23 **Future and Current Space Missions and Instrumentation for Space and Planetary Science**
*Takeshi SAKANOI *Tohoku University*, Yoshifumi SAITO *Japan Aerospace Exploration Agency*, Andrew YAU *University of Calgary*, Jongho SEON *Kyung Hee University*

ST02 **Energetic Particle Acceleration and Transport in the Heliosphere**
*Linghua WANG *Peking University*, Gang LI *The University of Alabama in Huntsville*, Kyoko WATANABE *National Defense Academy of Japan*

ST10-03-17-19 **General Session on the Magnetosphere**
*Masahito NOSE *Kyoto University*, George PARKS *University of California, Berkeley*, Xuzhi ZHOU *Peking University*, Hui ZHANG *University of Alaska Fairbanks*, Qiugang ZONG *Peking University*

ST12 **Waves and Turbulence in the Solar Atmosphere and Solar Wind**
*Bo LI *Shandong University*, Christopher CHEN *Imperial College London*, Jiansen HE *Peking University*, Leon OFMAN *Catholic University of America*, De-Jin WU *Chinese Academy of Sciences*

ST18 **ULF, ELF, and VLF Waves and Their Effects on Particles in the Inner Magnetosphere**
*Yuto KATOH *Tohoku University*, Xin TAO *University of Science and Technology of China*, Lunjin CHEN *University of Texas at Dallas*, Eun-Hwa KIM *Princeton University*

SE16 **Dynamic System of Earth: Interactions from Surface to Core**
*Takashi NAKAGAWA *Japan Agency for Marine-Earth Science and Technology*, Eh TAN *Academia Sinica*, Daoyuan SUN *University of Science and Technology of China*, Weijia KUANG *NASA Goddard Space Flight Center*, Xiaodong SONG *University of Illinois U-C & Wuhan U*

SS02 **Interdisciplinary Geosciences in Natural Hazards**
*Kazuhisa GOTO *Tohoku University*, James GOFF *University of New South Wales*

SS09 **A Dialog with Future Earth**
*Wing-Huen IP *National Central University*, Tom BEER *Safe System Solutions Pty Ltd*, Dong-Kyou LEE *Seoul National University*, Kenji SATAKE *The University of Tokyo*

*Jack A. KAYE *National Aeronautics and Space Administration (NASA),*

AS02 / Mesoscale Meteorology and High-impact Weather

Thu - 10 Aug | MR308

Session Chair(s) Kevin CHEUNG, *Macquarie University*

08:30
AS02-D4-AM1-308-001
AS02-A010
A High-Resolution Modeling Study of the 19 June 2002 Convective Initiation Case During IHOP: The Role of Localized Forcing
Qiwei WANG[1+], Ming XUE[2#]
[1]Nanjing University, [2]The University of Oklahoma

08:45
AS02-D4-AM1-308-002
AS02-A008
Effect of Mesoscale Perturbations on Pollutant Ventilation in an Urban LES Model
Ghar Ek LAU[1#], Gantuya GANBAT[1+], Keith NGAN[1], K.K. HON[2]
[1]City University of Hong Kong, [2]Hong Kong Observatory

09:00
AS02-D4-AM1-308-003
AS02-A028
Development of a Relocatable Atmospheric Forecast System for Defence Applications
Tatiana RYKOVA[1#+], Marcus THATCHER[1,2], Uwe ROSEBROCK[1]
[1]Commonwealth Scientific and Industrial Research Organisation (CSIRO), [2]The Centre for Australian Weather and Climate Research

09:15
AS02-D4-AM1-308-004
AS02-A009
A Comparison of LETKF and Downscaling in a Convective Scale Ensemble Prediction System in KMA
Younhee KANG[1#+], Seung-Woo LEE[2], Hyeri JEONG[1]
[1]Korea Meteorological Administration, [2]Numerical Modeling Center

09:30
AS02-D4-AM1-308-005
AS02-A016
Organization of Mesoscale Convective Clusters Over the Tropical Oceans
Chee-Kiat TEO[1#], Hoai Nguyen HUYNH[2], Tieh-Yong KOH[1+], Kevin CHEUNG[3], Bernard LEGRAS[4], Lock Yue CHEW[5], Leslie NORFORD[6]
*[1]Singapore University of Social Sciences, [2]Agency for Science, Technology and Research (A*STAR), [3]Macquarie University, [4]National de la Recherche Scientifique (CNRS) / Ecole Normale Supérieure, [5]Nanyang Technological University, [6]Massachusetts Institute of Technology*

09:45
AS02-D4-AM1-308-006
Invited
AS02-A025
Explosive Cyclogenesis Over the North Atlantic and North Pacific Basins: Progress, Challenges and New Research Opportunities
John GYAKUM[1#+]
[1]McGill University

10:05
AS02-D4-AM1-308-007
AS02-A017
Influence of Synoptic Scale Features on the Sea/ Land Breeze Circulation During Monsoon Over Northeast Coastal Station in Peninsular Malaysia
Jayakrishnan P. R.[1#+], Azizan Abu SAMAH[1], Babu C. A.[1,2], Sheeba Nettukandy CHENOLI[1], Sivaprasad P.[1]
[1]University of Malaya, [2]Cochin University of Science and Technology

Session Chair(s) Chee-Kiat TEO, *Singapore University of Social Sciences*

11:00 AS02-A026
AS02-D4-AM2-308-008 The Next Generation of Airborne Polarimetric Doppler Weather Radar: NCAR/EOL Airborne Phased Array Radar (APAR) Development
Invited
Wenchau LEE[1#+], James MOORE[1], Eric LOEW[1], Jothiram VIVEKANANDAN[1], Vanda GRUBISIC[1], Peisang TSAI[1], Michael DIXON[1], Jonathan EMMETT[1], Mark LORD[1], Louis LUSSIER[1], Bernard HWANG[1]
[1]*National Center for Atmospheric Research*

11:15 AS02-A021
AS02-D4-AM2-308-009 Rainfall and Vertical Velocity Characteristics Derived from Parsivel Disdrometer Measurements
Dong-In LEE[1#+], Dong-Kyun KIM[1], Yunhee KANG[1], Hyeonjoon KIM[1]
[1]*Pukyong National University*

11:30 AS02-A024
AS02-D4-AM2-308-010 Use of Subseasonal-To-Seasonal Predictions for Extreme Temperature Forecasts Over Singapore and the Surrounding Region
Invited
Raizan RAHMAT[1#+], Thea TURKINGTON[1]
[1]*Centre for Climate Research Singapore*

11:45 AS02-A031
AS02-D4-AM2-308-011 Spatial Characteristics of Extreme Rainfall Over China with Hourly Through 24-Hour Accumulation Periods Based on National-Level Hourly Rain Gauge Data
Yongguang ZHENG[1#+]
[1]*China Meteorological Administration*

12:00 AS02-A011
AS02-D4-AM2-308-012 Meteorological Precursors of Localized Rain Events in Metro Manila
Erica BAÑARES[1#+], Genevieve LORENZO[2], James SIMPAS[2]
[1]*Ateneo de Manila University,* [2]*Manila Observatory*

12:15 AS02-A030
AS02-D4-AM2-308-013 Temporal Variation of the Surface Layer Parameters Over Shillong During the Winter Season
Nilamoni BARMAN[1#+], Arup BORGOHAIN[1], Shyam Sundar KUNDU[1], Rakesh ROY[2], Biswajit SAHA[2], Kirankumar NADIMAPLLY[3], K. RAJEEV[3], P. L. N RAJU[1]
[1]*North Eastern Space Applications Centre,* [2]*National Institute of Technology Agartala,* [3]*Vikram Sarabhai Space Centre*

AS04 / Middle Atmosphere Science

Thu - 10 Aug | MR334

Session Chair(s) Shigeo YODEN, *Kyoto University*

08:30 AS04-A010
AS04-D4-AM1-334-001 A Study of Different Frequencies of Major Stratospheric Sudden Warmings in CMIP5 Historical Simulations
Invited
Masakazu TAGUCHI[1#+]
[1]*Aichi University of Education*

08:45
AS04-D4-AM1-334-002
Invited

AS04-A018
Dynamical Coupling of the Stratosphere and the Troposphere at High Latitudes
Wenshou TIAN[1#+], Jinlong HUANG[1], Yuanpu LI[1]
[1]Lanzhou University

09:00
AS04-D4-AM1-334-003

AS04-A029
Duration and Decay of Extreme Vortex Events in the Polar Stratosphere: Comparison of the ECMWF Seasonal Forecast Model with Reanalyses
Yvan ORSOLINI[1#+], Kazuaki NISHII[2], Hisashi NAKAMURA[2,3]
[1]Norwegian Institute for Air Research, [2]The University of Tokyo, [3]Japan Agency for Marine-Earth Science and Technology

09:15
AS04-D4-AM1-334-004

AS04-A015
Dynamics of 2013 Sudden Stratospheric Warming Event and its Impact on Cold Weather Over Eurasia: Role of Planetary Wave Reflection
Debashis NATH[1#+], Wen CHEN[1]
[1]Chinese Academy of Sciences

09:30
AS04-D4-AM1-334-005

AS04-A017
Does Stratospheric Sudden Warming Occur More Frequently During ENSO Winters Than During ENSO-Neutral Winters?
Kanghyun SONG[1+], Seok-Woo SON[1#]
[1]Seoul National University

09:45
AS04-D4-AM1-334-006

AS04-A008
Decadal Variation of the Northern Hemisphere Annular Mode and its Influence on the East Asian Trough
Chunhui LU[1#+]
[1]China Meteorological Administration

10:00
AS04-D4-AM1-334-007

AS04-A007
Persistent Shift of the Arctic Polar Vortex Towards the Eurasian Continent in Recent Decades
Jiankai ZHANG[1+], Wenshou TIAN[1#], Martyn CHIPPERFIELD[2], Fei XEI[3], Jinlong HUANG[1]
[1]Lanzhou University, [2]University of Leeds, [3]Beijing Normal University

10:15
AS04-D4-AM1-334-008

AS04-A021
A Formulation of Three-Dimensional Residual Mean Flow Balanced with Nonconservative Terms
Takenari KINOSHITA[1#+], Kaoru SATO[2]
[1]Japan Agency for Marine-Earth Science and Technology, [2]The University of Tokyo

Session Chair(s) Zeyu CHEN, *Chinese Academy of Sciences*

11:00
AS04-D4-AM2-334-009
Invited

AS04-A005
Tracking the Delayed Response of the Northern Winter Stratosphere to ENSO Using Multi Reanalyses and Model Simulations
Rongcai REN[1#+]
[1]Chinese Academy of Sciences

11:15
AS04-D4-AM2-334-010

AS04-A003
A Connection from Arctic Stratospheric Ozone to El Nino-Southern Oscillation
Fei XEI[1#+]
[1]Beijing Normal University

11:30
AS04-D4-AM2-334-011
AS04-A026
Solar Cycle Modulation of the ENSO Impact on the East Asian Climate and Possible Mechanisms
Wen CHEN[1#+]
[1]*Chinese Academy of Sciences*

11:45
AS04-D4-AM2-334-012
AS04-A002
Longitudinal Asymmetric Trends of Tropical Cold-Point Tropopause Temperature and Their Link to Strengthened Walker Circulation
Dingzhu HU[1+], Wenshou TIAN[2], Zhaoyong GUAN[1#], Yipeng GUO[3], Sandip DHOMSE[4]
[1]*Nanjing University of Information Science & Technology,* [2]*Lanzhou University,* [3]*Chinese Academy of Sciences,* [4]*University of Leeds*

12:00
AS04-D4-AM2-334-013
AS04-A025
Decadal Variability of Tropical Tropopause Temperatures and Lower Stratospheric Water Vapour: Links to the 11-Year Solar Cycle and Sea Surface Temperatures
Wuke WANG[1#+], Katja MATTHES[2], Ming SHANGGUAN[3]
[1]*Nanjing University,* [2]*GEOMAR Helmholtz Centre for Ocean Research Kiel,* [3]*Southeast University*

12:15
AS04-D4-AM2-334-014
AS04-A009
Downward Influence of QBO-Like Oscillation to Convection in a Two Dimensional Minimal Framework
Shigeo YODEN[1#+], Hoang-Hai BUI[2], Eriko NISHIMOTO[1]
[1]*Kyoto University,* [2]*Vietnam National University*

Session Chair(s) Hye-Yeong CHUN, *Yonsei University*

14:00
AS04-D4-PM1-334-015
Invited
AS04-A023
Seasonal MLT-Region Nightglow Intensities, Temperatures and Emission Heights at a Southern Hemisphere Mid-Latitude Site
Iain REID[1,2#+], Andrew SPARGO[2], Jonathan WOITHE[1], Andrew KLEKOCIUK[3], Joel YOUNGER[1], Abas SIVJEE[4]
[1]*ATRAD Pty Ltd,* [2]*University of Adelaide,* [3]*Australian Antarctic Division,* [4]*Embry-Riddle Aeronautical University*

14:15
AS04-D4-PM1-334-016
AS04-A016
Microphysical and Chemical Effects in the Lower Stratosphere Induced by a Moderate Volcanic Eruption in the Northern Hemisphere - Comparisons Between Two Chemistry-Transport Models and Observations
Gwenael BERTHET[1#+], Thibaut LURTON[1], Fabrice JEGOU[1], Tjarda ROBERTS[1], Jean-Baptiste RENARD[1], Valéry CATOIRE[1], Gisèle KRYSZTOFIA[1]
[1]*Laboratoire de Physique et Chimie de l'Environnement et de l'Espace, Centre National de la Recherche Scientifique, Université Orléans*

14:30
AS04-D4-PM1-334-017
AS04-A034
Impact of Interactive Ozone Chemistry on Earth-System-Model Simulation of Last Glacial Maximum
Shigeo YODEN[1#+], Satoshi NODA[1], Ryo MIZUTA[2], Makoto DEUSHI[2], Kunihiko KODERA[3], Kohei YOSHIDA[2], Akio KITOH[4], Shigenori MURAKAMI[2], Yukimasa ADACHI[2]
[1]*Kyoto University,* [2]*Japan Meteorological Agency,* [3]*Nagoya University,* [4]*University of Tsukuba*

14:45 AS04-A014
AS04-D4-PM1-334-018
On the Progress of Quasi-2 Day Wave in the Middle Atmosphere
Sheng-Yang GU[1#+]
[1]*University of Science and Technology of China*

15:00 AS04-A019
AS04-D4-PM1-334-019
Vertical and Meridional Propagations of 6.5DWs and 2DWs from Stratosphere to the Lower Thermosphere
Yingying HUANG[1#+], Chongyin LI[2], Huijun LI[3], Lingqi ZENG[4]
[1]*PLA University of Science and Technology,* [2]*Chinese Academy of Sciences,* [3]*Nanjing University of Aeronautics and Astronautics,* [4]*Wuhan University*

15:15 AS04-A024
AS04-D4-PM1-334-020
The Typhoon Related Stratospheric Gravity Waves Revealed by a Joint Investigation with Contemporary Radiosoundings at Multi-Tropical Pacific Islands
Liji WANG[1], Zeyu CHEN[1#+], Daren LU[1]
[1]*Chinese Academy of Sciences*

15:30 AS04-A006
AS04-D4-PM1-334-021
Initial Results from the Stratospheric Aerosol and Gas Experiment III / International Space Station Mission
Richard ECKMAN[1#+]
[1]*National Aeronautics and Space Administration (NASA)*

AS21 / Madden - Julian Oscillation and Its Impacts

Thu - 10 Aug | MR333

Session Chair(s) Ziniu XIAO, *LASG/IAP*
Zhaohui LIN, *ICCES/IAP*

08:30 AS21-A022
AS21-D4-AM1-333-001
Invited
The Characteristics of Madden-Julian Oscillation During El Niño Event
Chongyin LI[1#+]
[1]*Chinese Academy of Sciences*

08:50 AS21-A003
AS21-D4-AM1-333-002
Impacts of Boreal Summer Intraseasonal Oscillation on the Western North Pacific Typhoons and Rainfall in Taiwan
Chih-Wen HUNG[1#+]
[1]*National Taiwan Normal University*

09:05 AS21-A015
AS21-D4-AM1-333-003
The Impacts of MJO on TC Activities Over South China Sea in Recent Decades
Wen ZHOU[1#+]
[1]*City University of Hong Kong*

09:20 AS21-A027
AS21-D4-AM1-333-004
Future Changes of the Madden-Julian Oscillation Using CNRM-CM5 Simulations
Eun-Ji SONG[1+], Kyong-Hwan SEO[1#]
[1]*Pusan National University*

09:35 AS21-A014
AS21-D4-AM1-333-005
Subseasonal Scale Interactions During Winter Monsoon Over Southeast Asia
Prince XAVIER[1#+], See Yee LIM[2]
[1]*Met Office,* [2]*Centre for Climate Research Singapore*

09:50
AS21-D4-AM1-333-006
AS21-A007
Definition of a New East Asian Subtropical Summer Monsoon Index
Hongming YAN[1#+]
[1]*Yunnan Meteorological Bureau*

10:05
AS21-D4-AM1-333-007
AS21-A008
Influence of Madden-Julian Oscillation on Indonesian Rainfall Variability in Asian Winter Monsoon
Eddy HERMAWAN[1#+]
[1]*Indonesian National Institute of Aeronautics and Space (LAPAN)*

10:20
AS21-D4-AM1-333-008
AS21-A012
Effect of Intraseasonal Oscillations on South China Sea Summer Monsoon Onset
Hui WANG[1#+], Fei LIU[1]
[1]*Nanjing University of Information Science & Technology*

Session Chair(s)
Masuo NAKANO, *apan Agency for Marine-Earth Science and Technology*
Wen ZHOU, *City University of Hong Kong*

11:00
AS21-D4-AM2-333-009
Invited
AS21-A005
Changes in the 30–60-day Boreal Summer Intraseasonal Oscillation Under the Global Warming Condition: A Study in CNRM-CM5
Jiangyu MAO[1#+], Jianying LI[2]
[1]*Chinese Academy of Sciences,* [2]*China University of Geosciences (Wuhan)*

11:20
AS21-D4-AM2-333-010
AS21-A032
Impact of Madden Julian Oscillation to Rainfall Characteristic in Indonesia
Dava AMRINA[1], Nelly Florida RIAMA[1#+], Andri RAMDHANI[1]
[1]*Agency for Meteorology, Climatology and Geophysics*

11:35
AS21-D4-AM2-333-011
AS21-A018
Influence of Springtime Atlantic SST on ENSO Events: Role of the Madden-Julian Oscillation
Yan XIN[1+], Juzhang REN[2], Jian-Hua JU[3#], Song YANG[1]
[1]*Sun Yat-sen University,* [2]*Yunnan Research Institute of Meteorology,* [3]*China Meteorological Administration Training Centre*

11:50
AS21-D4-AM2-333-012
AS21-A025
MJO Modulation of Diurnal Cycles and Sea Breezes Over Peninsular Malaysia
Fredolin T. TANGANG[1,2#+], Ahmad Fairudz JAMALUDDIN[1], Ester SALIMUN[1], Ju Neng LIEW[1]
[1]*National University of Malaysia,* [2]*Ramkhamhaeng University*

Session Chair(s)
Jian LING, *LASG/IAP*
Jiangyu MAO, *LASG/IAP*

14:00
AS21-D4-PM1-333-013
AS21-A029
Simulation of the Madden-Julian Oscillation in the IAP AGCM4
Zhaohui LIN[1#+], Kun WANG[1], Ziniu XIAO[1]
[1]*Chinese Academy of Sciences*

14:15 AS21-A023

AS21-D4-PM1-333-014 Genesis of Super Cyclone Pam (2015): Modulation of Low-Frequency Large-Scale Circulations and the Madden–Julian Oscillation by Sea Surface Temperature Anomalies

Masuo NAKANO[1#+], Hisayuki KUBOTA[2], Tomoki MIYAKAWA[2], Tomoe NASUNO[1], Masaki SATOH[2]

[1]Japan Agency for Marine-Earth Science and Technology, [2]The University of Tokyo

14:30 AS21-A037

AS21-D4-PM1-333-015 Initiation Processes of the Tropical Intraseasonal Variability Simulated with Aqua-Planet Experiments: Implication for MJO Onset

Daisuke TAKASUKA[1#+], Masaki SATOH[1]

[1]The University of Tokyo

14:45 AS21-A019

AS21-D4-PM1-333-016 Modeling of Convective Gravity Waves Forced During the Madden Julian Oscillation in the Indian Ocean and Western Pacific Region

Silvio KALISCH[1#], Hye-Yeong CHUN[1+], Min-Jee KANG[1]

[1]Yonsei University

15:00 AS21-A036

AS21-D4-PM1-333-017 Tropical Intraseasonal Oscillation in a New Generation AGCM FAMIL and Coupled GCM FGOALS-f

Qing BAO[1#+]

[1]Chinese Academy of Sciences

AS23 / Passive and Active Remote Sensing of the Chemistry and Dynamics of the Middle and Upper Atmosphere

Thu - 10 Aug | MR336

Session Chair(s) Patrick ESPY, *Norwegian University of Science and Technology*
Jeng-Hwa (Sam) YEE, *Johns Hopkins University Applied Physics Laboratory*

16:00 AS23-A014

AS23-D4-PM2-336-001 Invited Performances Assessment of the Sub-Millimeter Limb Sounder Projects: SIW and SMILES-2

Philippe BARON[1#+], Donal MURTAGH[2], Satoshi OCHIAI[1], Makoto SUZUKI[3]

[1]National Institute of Information and Communications Technology, [2]Chalmers University of Technology, [3]Japan Aerospace Exploration Agency

16:20 AS23-A011

AS23-D4-PM2-336-002 Terahertz Limb Sounder for Lower Thermosphere Wind, Temperature, and Atomic Oxygen Density Measurements

Jeng-Hwa YEE[1#+], Dong WU[2], Imran MEHDI[3], Erich SCHLECHT[3]

[1]Johns Hopkins University, [2]NASA Goddard Space Flight Center, [3]Jet Propulsion Laboratory/ California Institute of Technology

16:35 AS23-A005

AS23-D4-PM2-336-003 Small-Scale Dynamical Structures Using Oh Airglow from Astronomical Observations

Patrick ESPY[1,2#+], Christoph FRANZEN[1], Amanda DJUPVIK[3]

[1]Norwegian University of Science and Technology, [2]University of Bergen, [3]Nordic Optical Telescope

16:50
AS23-D4-PM2-336-004
Invited
AS23-A012
Production and Transport of Nitric Oxide in the Mesosphere - Lower Thermosphere: Comparison of Satellite Observations with Model
Yvan ORSOLINI[1#+]
[1]*Norwegian Institute for Air Research*

17:10
AS23-D4-PM2-336-005
AS23-A017
Variations in Thermospheric Composition: TIMED/GUVI Observations
Yongliang ZHANG[1#+], Larry PAXTON[1], Jeng-Hwa YEE[1]
[1]*Johns Hopkins University*

17:25
AS23-D4-PM2-336-006
Invited
AS23-A004
Thermosphere Response to Doubling of CO2: GAIA Simulation Results
Huixin LIU[1#+], Yasunobu MIYOSHI[1]
[1]*Kyushu University*

17:45
AS23-D4-PM2-336-007
AS23-A018
Energy and Heat Flux by Dissipating Gravity Waves
Alan LIU[1#+]
[1]*Embry-Riddle Aeronautical University*

AS24 / Utilizing the Cloud-resolving Models for Studying Cloud-related Processes in Global Model / Climate Simulation

Thu - 10 Aug | MR336

Session Chair(s) Pay-Liam LIN, *National Central University*

08:30
AS24-D4-AM1-336-001
AS24-A029
Cloud Microphysical Processes and its Parameterization in a Shallow Cumulus Cloud from a Lagrangian Cloud Model
Donggun OH[1], Yign NOH[1#+], Fabian HOFFMANN[2], Siegfried RAASCH [2]
[1]*Yonsei University,* [2]*Leibniz Universität Hannover*

08:45
AS24-D4-AM1-336-002
Invited
AS24-A017
Effect of Cloud Microphysics on Scale Interactions Over the Maritime Continent
Jen-Ping CHEN[1#+], Tzu-Chin TSAI[1], Chein-Jung SHIU[2], Chia-Jung PI[1]
[1]*National Taiwan University,* [2]*Academia Sinica*

09:00
AS24-D4-AM1-336-003
Invited
AS24-A012
Cloud Microphysical Processes Measured by Aircraft Against Cloud-Resolving Model
Xueliang GUO[1#+]
[1]*Chinese Academy of Meteorological Sciences*

09:15
AS24-D4-AM1-336-004
AS24-A009
Evaluation of Retrieved Cloud Microphysical Properties Between Himawari-8 and MODIS Observations
Chi-Hao CHIU[1#+], Chian-Yi LIU[1]
[1]*National Central University*

09:30
AS24-D4-AM1-336-005
AS24-A020
Evaluations of the Goddard Cumulus Ensemble Model Simulations During DYNAMO
Myong-In LEE[1#+], Sung-Yoon KIM[1], Wei-Kuo TAO[2]
[1]*Ulsan National Institute of Science and Technology,* [2]*NASA Goddard Space Flight Center*

09:45
AS24-D4-AM1-336-006
AS24-A008
Improving Simulation of Tropical Diurnal Precipitation by the Superparameterized CAM Coupled to a Slab Ocean Model
Wei-Ting CHEN[1#+], Kuan-Ting KUO[1], Chien-Ming WU[1]
[1]National Taiwan University

10:00
AS24-D4-AM1-336-007
AS24-A001
Impact of Mesoscale Convective Systems on Global Precipitation: A Multi-Scale Modeling Study
Wei-Kuo TAO[1#+], Jiun-Dar CHERN[2]
[1]NASA Goddard Space Flight Center, [2]University of Maryland Baltimore County

10:15
AS24-D4-AM1-336-008
AS24-A007
Evaluation of Global Nonhydrostatic Simulations for the Recent Field Campaigns Over the Tropical Indian Ocean
Tomoe NASUNO[1#+], Kazuyoshi KIKUCHI[2], Masuo NAKANO[1], Yohei YAMADA[1], Mikiko IKEDA[1], Hiroshi TANIGUCHI[3]
[1]Japan Agency for Marine-Earth Science and Technology, [2]University of Hawaii at Manoa, [3]Kobe City College of Technology

Session Chair(s)
Wei-Kuo TAO, *NASA Goddard Space Flight Center*
Yign NOH, *Yonsei University*

11:00
AS24-D4-AM2-336-009
Invited
AS24-A021
Mean State Dependence of Radiative Convective Instability
Zhiming KUANG[1#+]
[1]Harvard University

11:15
AS24-D4-AM2-336-010
AS24-A018
Sensitivity Studies of Cloud Responses on SSTs in RCE Experiments Using a High-Resolution Global Nonhydrostatic Model
Tomoki OHNO[1#+], Masaki SATOH[1]
[1]The University of Tokyo

11:30
AS24-D4-AM2-336-011
Invited
AS24-A011
Simulated Response to +4K Warming in Global Cloud-Resolving Model
Marat KHAIROUTDINOV[1#+]
[1]Stony Brook University

11:45
AS24-D4-AM2-336-012
AS24-A013
Diurnal Variation of Regional Circulation and Precipitation During Mei-Yu Season Over Taiwan and Surrounding Area
Pay-Liam LIN[1#+], Chung-Yin WANG[1], Yi-Leng CHEN[2], Chuan-Chi TU[1]
[1]National Central University, [2]University of Hawaii at Manoa

12:00
AS24-D4-AM2-336-013
AS24-A025
The Bias of South China Sea Summer Monsoon Precipitation Associated with Physical Processes in Global Climate Models: The Multi-Year Hindcast Approach
Chien-Ming WU[1#+], Wei-Ting CHEN[1], Hsi-Yen MA[2]
[1]National Taiwan University, [2]Lawrence Livermore National Laboratory

12:15
AS24-D4-AM2-336-014
AS24-A024
Transition from Shallow Convection to Deep Convection in the ITCZs - Horizontal Resolution Dependence
Hien BUI[1#+], Jia-Yuh YU[1]
[1]National Central University

Session Chair(s) Chuanfeng ZHAO, *Beijing Normal University*
Wei-Ting CHEN, *National Taiwan University*

14:00 AS24-A002
AS24-D4-PM1-336-015
Coupling Spectral-Bin Cloud Microphysics with the MOSAIC Aerosol Model in WRF-Chem: Methodology and Results for Marine Stratocumulus Clouds
Wenhua GAO[1+], Jiwen FAN[2#], Richard EASTER[2], Qing YANG[2], Chun ZHAO[2], Steve GHAN[2]
[1]China Meteorological Administration, [2]Pacific Northwest National Laboratory

14:15 AS24-A022
AS24-D4-PM1-336-016
Invited
The Observed Climatology of Planetary Boundary Layer and its Association with Meteorology Over the Eastern China
Jianping GUO[1#+]
[1]Chinese Academy of Meteorological Sciences

14:30 AS24-A027
AS24-D4-PM1-336-017
Invited
Differences in the Hydrological Cycle and Sensitivity Between Multiscale Modeling Frameworks with and Without a Higher-Order Turbulence Closure and Implications for Conventional GCMs
Kuan-Man XU[1#+]
[1]NASA Langley Research Center

14:45 AS24-A028
AS24-D4-PM1-336-018
Studying Potential Link Between Phytoplankton and Water Cloud Microphysics at High Latitudes Using 11 Year Calipso Lidar Measurements
Yongxiang HU[1#+], Kuan-Man XU[1]
[1]NASA Langley Research Center

15:00 AS24-A030
AS24-D4-PM1-336-019
Different Mechanism of Aerosol Indirect Effects on Cloud and Radiation in the Infrared in South East Asia and Amazon Regions
Yiran PENG[1#+], Minqi WANG[1], Xiaoning XIE[2], Yangang LIU[3]
[1]Tsinghua University, [2]Chinese Academy of Sciences, [3]Brookhaven National Laboratory

AS27 / Aerosol-Fog Interactions: Theoretical, Observational and Modeling Studies

Thu - 10 Aug | MR309

Session Chair(s) Charles C.-K. CHOU, *Academia Sinica*
Tzung-May FU, *Peking University*

16:00 AS27-A016
AS27-D4-PM2-309-001
Invited
A Novel Method to Derive the Aerosol Hygroscopicity Parameter Based Only on Measurements from a Humidified Nephelometer System
Chunsheng ZHAO[1#+], Ye KUANG[1], Jiangchuan TAO[1]
[1]Peking University

16:15 AS27-A011
AS27-D4-PM2-309-002
Predicting Occurrence of Liquid-Liquid Phase Separation in Mixed Organic/Inorganic Particles Using 1-Octanol Water Partition Coefficient
Liudongqing YANG[1+], Mikinori KUWATA[1#]
[1]Nanyang Technological University

16:30 AS27-A005
AS27-D4-PM2-309-003 Interactions Between Aerosols and Boundary Layer Meteorology During a Severe Haze Event in Winter 2015 in Northern China
Yaping MA[1+], Tzung-May FU[1#], Jian GAO[2]
[1]Peking University, [2]Chinese Research Academy of Environmental Sciences

16:45 AS27-A015
AS27-D4-PM2-309-004 Overview of the Fog and Aerosol Characterization Experiment for the Taiwan Strait Area (Facets)
Charles C.K. CHOU[1#+], Tzung-May FU[2], Chih-Chung CHANG[1], Shih-Yu CHANG[3], Jen-Ping CHEN[4], Wei-Nai CHEN[1], Wei-Ting CHEN[4], Joe H.C. CHEUNG[1], Tse-Tsung HO[1], Hui-Ming HUNG[4], Chuan-Yao LIN[1], Po-Hsiung LIN[4], Shih-Chun Candice LUNG[1], I-Chun TSAI[1]
[1]Academia Sinica, [2]Peking University, [3]Chung Shan Medical University, [4]National Taiwan University

17:00 AS27-A007
AS27-D4-PM2-309-005 Numerical Study of a Spring Heavy Fog Event Over Kinmen Island in 2015: A Preliminary Result
Chuan-Yao LIN[1#+], Wan Chin CHEN[1], Charles C.K. CHOU[1], Yangfan SHENG[1]
[1]Academia Sinica

17:15 AS27-A012
AS27-D4-PM2-309-006 Large-Eddy Simulations of Springtime Marine Advection Fog Over the Taiwan Strait
Invited
Wei-Ting CHEN[1#+], Chin-An LIN[1], Chien-Ming WU[1], Po-Hsiung LIN[1]
[1]National Taiwan University

17:30 AS27-A003
AS27-D4-PM2-309-007 Boundary Layer Structure and Aerosol Optical Properties Observed in Kinmen During Fog Season
Wei-Nai CHEN[1#+], Charles C.-K. CHOU[1], Po-Hsiung LIN[2], Hui-Ming HUNG[2], Chuan-Yao LIN[1], I-Chun TSAI[1]
[1]Academia Sinica, [2]National Taiwan University

17:45 AS27-A018
AS27-D4-PM2-309-008 Observational Study of Particle Number Concentrations and Size Distributions of Fog Droplets at Coastal Site of Kinmen Island
Joe H.C. CHEUNG[1+], Charles C.-K. CHOU[1#], Tse-Tsung HO[1]
[1]Academia Sinica

AS29 / Mountain Effects on Airflow, Precipitation, and Weather Systems

Thu - 10 Aug | MR308

Session Chair(s) Cheng-Ku YU, *National Taiwan University*
Gyu Won LEE, *Kyungpook National University*

14:00 AS29-A005
AS29-D4-PM1-308-001 Role of Orography, Diurnal Cycle, and Intraseasonal Oscillation in Summer Monsoon Rainfall Over Western Ghats and Myanmar Coast
Invited
Shoichi SHIGE[1#+], Yuki NAKANO[1], Munehisa K. YAMAMOTO[1]
[1]Kyoto University

14:15
AS29-D4-PM1-308-002
AS29-A001
Characteristic Rainfall of Tropical Cyclones Across a Mountain Range as Highlighted by Idealized Experiments
Ching-Yuang HUANG[1#+]
[1]*National Central University*

14:30
AS29-D4-PM1-308-003
AS29-A015
What Causes the Precipitation Hotspots of Afternoon Thunderstorms Over Taipei Basin?
Chien-Ming WU[1#+], Kuan-Ting KUO[1]
[1]*National Taiwan University*

14:45
AS29-D4-PM1-308-004
AS29-A011
Observational Investigation of Wintertime Orographic Precipitation Over the Da-Tun Mountain
Lin-Wen CHENG[1#+], Cheng-Ku YU[1]
[1]*National Taiwan University*

15:00
AS29-D4-PM1-308-005
AS29-A023
Effects of Geometrical Features of Surface Roughness on Turbulent Flows Over an Actual Urban Area
Toshiya YOSHIDA[1+], Tetsuya TAKEMI[1#]
[1]*Kyoto University*

15:15
AS29-D4-PM1-308-006
AS29-A025
Orographic Precipitation Associated with Outer Rainband of Typhoon Fitow (2013)
Huaning DAI[1#+], Kun ZHAO[1], Xiaomin CHEN[1], Mingjun WANG[1]
[1]*Nanjing University*

Session Chair(s)
Tetsuya TAKEMI, *Kyoto University*
Ching-Yuang HUANG, *National Central University*

16:00
AS29-D4-PM2-308-007
Invited
AS29-A022
Convective Activity in Northern Cascade of Snow Mountain and Flash Floods in Taipei
Ben JOU[1#+], Pao-Liang CHANG[2], Pin-Fang LIN[2]
[1]*National Taiwan University,* [2]*Central Weather Bureau*

16:15
AS29-D4-PM2-308-008
Invited
AS29-A013
The Lagrangian Evolution of Water Budget and Precipitation Efficiency of a Squall Line Interacting with Terrain
Ming-Jen YANG[1#+], Yi-Chuan CHUNG[1], Yin-Mao WANG[1]
[1]*National Taiwan University*

16:30
AS29-D4-PM2-308-009
AS29-A014
Evaluating Surface Solar Radiation in Mountains and its Impact on GCM Simulations Over the Tibetan Plateau
Wei-Liang LEE[1#+], Kuo-Nan LIOU[2], Yu GU[2], Chia-Chi WANG[3], Huang-Hsiung HSU[1]
[1]*Academia Sinica,* [2]*University of California, Los Angeles,* [3]*Chinese Culture University*

16:45
AS29-D4-PM2-308-010
AS29-A002
On the Contrasting Decadal Changes of Diurnal Surface Temperature Range Between the Tibetan Plateau and Southeastern China During the 1980s–2000s
Yang YANG[1#], Rongcai REN[2+]
[1]*China Meteorological Administration,* [2]*Chinese Academy of Sciences*

17:00 AS29-A018
AS29-D4-PM2-308-011
Numerical Simulation on Lake-Land Breeze Over Poyang Lake Basin of China
Ying LI[1#+], Zi MAI[2], Na WEI[1]
[1]*Chinese Academy of Meteorological Sciences,* [2]*Chinese Academy of Sciences*

17:15 AS29-A004
AS29-D4-PM2-308-012
Topographic Effect on Modification of Airflow and Precipitation Structures in Pyeongchang Area
Chia-Lun TSAI[1#+], Kwonil KIM[1], Yu-Chieng LIOU[2], Gyu Won LEE[1]
[1]*Kyungpook National University,* [2]*National Central University*

17:30 AS29-A008
AS29-D4-PM2-308-013
Statistical Characteristics of Taiwan Rainband from Long-Term Radar Observations
Che-Yu LIN[1#+], Cheng-Ku YU[1]
[1]*National Taiwan University*

17:45 AS29-A019
AS29-D4-PM2-308-014
The Size Change of Tropical Cyclones Traversing the Philippines
Shu-Jeng LIN[1+], Kun-Hsuan CHOU[1#]
[1]*Chinese Culture University*

AS36 / Extreme Weather Resiliency: Prediction and Response Strategies

Thu - 10 Aug | MR333

Session Chair(s) Ming-Jen YANG, *National Taiwan University*
Pay-Liam LIN, *National Central University*

16:00 AS36-A038
AS36-D4-PM2-333-001
US-Taiwan Partnership for International Research and Education on Extreme Weather and Decision-Making
Everette JOSEPH[1+], Pay-Liam LIN[2#], Chris THORNCROFT[1], Huang-Hsiung HSU[3], Wei-Chyung WANG[1], Ryan TORN[1], Shu-Chih YANG[2], Ming-Jen YANG[4], Qilong MIN[1], Terri ADAMS[5], Li ZHANG[1]
[1]*University at Albany, State University of New York,* [2]*National Central University,* [3]*Academia Sinica,* [4]*National Taiwan University,* [5]*Howard University*

16:15 AS36-A007
AS36-D4-PM2-333-002
Invited
Simulating and Projecting Tropical Cyclone Activity in the Western North Pacific Using a High-Resolution AGCM
Huang-Hsiung HSU[1#+], Chia-Ying TU[1], Shian-Jiann LIN[2], Ping-Gin CHIU[1]
[1]*Academia Sinica,* [2]*National Oceanic and Atmospheric Administration*

16:35 AS36-A002
AS36-D4-PM2-333-003
Invited
Winter Extreme Precipitation Events Along the Coast of the Northeast United States and the Associated Large-Scale Circulations
Wei-Chyung WANG[1#+], Lijun TAO[1], Guoxing CHEN[1], Huang-Hsiung HSU[2], Chia-Ying TU[2], I-Chun TSAI[2], Chao-Tzuen CHENG[3]
[1]*University at Albany, State University of New York,* [2]*Academia Sinica,* [3]*National Science and Technology Center for Disaster Reduction (NCDR)*

16:55 AS36-A026
AS36-D4-PM2-333-004
Risk Management from the Ensemble Based Typhoon QPF
Jing-Shan HONG[1#+], Chin-Tzu FONG[1]
[1]*Central Weather Bureau*

17:10 AS36-A021
AS36-D4-PM2-333-005
Applying Ensemble Probabilistic Forecasts in Risk-Based Decision Making
Hui-Ling CHANG[1,2#+], Shu-Chih YANG[2], Huiling YUAN[3], Pay LIAM[2], Yu-Chieng LIOU[2]
[1]Central Weather Bureau, [2]National Central University, [3]Nanjing University

17:25 AS36-A009
AS36-D4-PM2-333-006
Urban Public Health Resilience to Extrem Heat Wave: A Case Study of Shanghai
Xiaochen LIU[1#+]
[1]Shanghai Climate Centre

AS40 / Results from the 2016 KORUS-AQ and Related Field Studies in Asia

Thu - 10 Aug | MR309

Session Chair(s) James CRAWFORD, *NASA Langley Research Center*
Saewung KIM, *University of California - Irvine*

08:30 AS40-A019
AS40-D4-AM1-309-001
Invited
Meteorology Influencing Pollution Regimes and Transport During KORUS-AQ
David PETERSON[1#+], Edward HYER[1], James CAMPBELL[1], Peng XIAN[1]
[1]Naval Research Laboratory

08:50 AS40-A014
AS40-D4-AM1-309-002
Invited
The Extensive Ground Measurements of Air Quality During the KORUS-AQ/Maps-Seoul 2016 Campaign
Lee GANGWOONG[1#+], Jun-Young AHN[2], Im-Suk JANG[2], Jeong-Hoo PARK[2], Youdeog HONG[2]
[1]Hankuk University of Foreign Studies, [2]National Institute of Environmental Research

09:10 AS40-A009
AS40-D4-AM1-309-003
Ground-, Airborne-, and Satellite-Based Remote Sensing of Aerosol and Gases During the KORUS-AQ Campaign
Jhoon KIM[1#+], Ja-Ho KOO[1], Jay AL-SAADI[2], Mijin KIM[1], Myungje CHOI[1], Woogyung KIM[1], Sujung GO[1], Hana LEE[1], Heesung CHONG[1], Seoyoung LEE[1], Hyunkwang LIM[1], Brent HOLBEN[3], Jay HERMAN[3], Scott JANZ[3], Matthew KOWALEWSKI[3], Gordon LABOW[3], Hitoshi IRIE[4], Jun-Young AHN[5], Im-Suk JANG[5], Ji-Hyung HONG[5], James CRAWFORD[6]
[1]Yonsei University, [2]National Aeronautics and Space Administration, [3]NASA Goddard Space Flight Center, [4]Chiba University, [5]National Institute of Environmental Research, [6]NASA Langley Research Center

09:25 AS40-A022
AS40-D4-AM1-309-004
Invited
Atmosphere- Aerosol-Boundary-Cloud Interactions Experiment in China
Zhanqing LI[1,2#+]
[1]University of Maryland, [2]Beijing Normal University

09:45 AS40-A010
AS40-D4-AM1-309-005
Invited
Source Attribution of PM2.5 in Korea During the KORUS-AQ Campaign Using GEOS-Chem Adjoint Model
Rokjin J. PARK[1#+]
[1]Seoul National University

10:05
AS40-D4-AM1-309-006

AS40-A008
Influences of Megacity and Natural Emissions on Ozone Photochemistry Over Korea
Louisa EMMONS[1#+], Gabriele PFISTER[1], Jerome BARRE[1], Benjamin GAUBERT[1], Arthur MIZZI[1], Rebecca BUCHHOLZ[1], Christoph KNOTE[2], James CRAWFORD[3], Jason SCHROEDER[3], Saewung KIM[4], Alex GUENTHER[4]
[1]National Center for Atmospheric Research, [2]Ludwig-Maximilians-Universität München, [3]NASA Langley Research Center, [4]University of California, Irvine

Session Chair(s)
James CRAWFORD, *NASA Langley Research Center*
Zhanqing LI, *University of Maryland*

11:00
AS40-D4-AM2-309-007

AS40-A001
The Influence of the Long-Range Transport to the Air Quality in South Korea
Ja-Ho KOO[1#+], Seoyoung LEE[1], Myungje CHOI[1], Jhoon KIM[1], Hyunkwang LIM[1], Jaemin HONG[1], Brent HOLBEN[2], Thomas ECK[2], Jun-Young AHN[3], Jeong-Hoo PARK[3], Ji-Hyung HONG[3], Sang-Kyun KIM[3]
[1]Yonsei University, [2]NASA Goddard Space Flight Center, [3]National Institute of Environmental Research

11:15
AS40-D4-AM2-309-008

AS40-A024
Hygroscopic Properties of Aerosols and Their CCN Activity in and Around the Korean Peninsula During the KORUS-AQ Campaign
Najin KIM[1#+], Minsu PARK[1], Seong Soo YUM[1], Hye Jung SHIN[2], Jongsung PARK[2], In Ho SONG[2], Lee THORNHILL[3], Bruce ANDERSON[3], Dong-Su KIM[4]
[1]Yonsei University, [2]National Institute of Environmental Research, [3]NASA Langley Research Center, [4]ABC Trading

11:30
AS40-D4-AM2-309-009

AS40-A021
Formaldehyde Distributions Over the Petrochemical & Industrial Complexes on Korea's Northwest Coast During the KORUS-AQ Study: Potential Effects on Seoul's Air Quality
Alan FRIED[1#+], James WALEGA[1], Petter WEIBRING[1], Dirk RICHTER[1], Jason SCHROEDER[2], James CRAWFORD[2], Christoph KNOTE[3], Donald BLAKE[4], Nicola BLAKE[4], Russell LONG[5], Andrew WHITEHILL[5], David WILLIAMS[5], Lukas VALIN[5]
[1]University of Colorado Boulder, [2]NASA Langley Research Center, [3]Ludwig-Maximilians-Universität München, [4]University of California, Irvine, [5]United States Environmental Protection Agency

11:45
AS40-D4-AM2-309-010

AS40-A012
When Fresh Air Pollution Meets Nature – Implication Towards Oxidation Capacity and Reactivity
Saewung KIM[1#+], Dianne SANCHEZ[1], Daun JEONG[1], Roger SECO[1], Dasa GU[1], Young Ro LEE[1], Alex GUENTHER[1]
[1]University of California, Irvine

12:00
AS40-D4-AM2-309-011

AS40-A032
Long Range Transport and Transformations of Air Pollutants Diagnosed from in Situ Aircraft Measurements and Model Simulations Over Yellow Sea During the KORUS-AQ Field Campaign
Hyo-Jung LEE[1#+], Hyun-Young JO[1], Sehwa LIM[1], Taehyoung LEE[2], Si-Wan KIM[3], Jung-Hun WOO[4], Jun-Young AHN[5], Jin-Soo PARK[5], Jin-Soo CHOI[5], Andrew WEINHEIMER[6], Greg HUEY[7], Cheol-Hee KIM[1]
[1]Pusan National University, [2]Hankuk University of Foreign Studies, [3]National Oceanic and Atmospheric Administration, [4]Konkuk University, [5]National Institute of Environmental Research, [6]National Center for Atmospheric Research, [7]Georgia Institute of Technology

Session Chair(s)
Louisa EMMONS, *National Center for Atmospheric Research*
Cheol-Hee KIM, *Pusan National University*

14:00
AS40-D4-PM1-309-012

AS40-A005
MAX-DOAS Observations at Fukue Island, Western Japan, During KORUS-AQ Period: Synergistic Analysis Using Ground Observations, Flight Data, and Model Simulations
Yugo KANAYA[1#+], Takashi SEKIYA[1], Kazuyuki MIYAZAKI[1], Kengo SUDO[2], Yasuhiro SADANAGA[3], Fumikazu TAKETANI[1], Takuma MIYAKAWA[1], Yuichi KOMAZAKI[1], Hitoshi IRIE[4], Hisahiro TAKASHIMA[5]
[1]Japan Agency for Marine-Earth Science and Technology, [2]Nagoya University, [3]Osaka Prefectural University, [4]Chiba University, [5]Fukuoka University

14:15
AS40-D4-PM1-309-013

AS40-A015
Reevaluating CFC-11 Emissions: Insights from 3-D GEOS-5 Model Analysis and Recent NASA Aircraft Missions
Qing LIANG[1#+], Paul NEWMAN[2], Donald BLAKE[3], Isobel SIMPSON[3]
[1]Universities Space Research Association, [2]NASA Goddard Space Flight Center, [3]University of California, Irvine

14:30
AS40-D4-PM1-309-014

AS40-A033
Improving Air Quality Forecasts with Satellite Observations Over Northeast Asia During the KORUS-AQ Campaign
Kyunghwa LEE[1+], Jinhyeok YU[1], Chul Han SONG[1#]
[1]Gwangju Institute of Science and Technology

14:45
AS40-D4-PM1-309-015

AS40-A006
Diurnal Aerosol Cycles from Geostationary Orbit During KORUS-AQ: Retrieval and Evaluation
Pawan GUPTA[1#+], Robert LEVY[2], Shana MATTOO[2], Virginia SAWYER[2], Falguni PATADIA[2]
[1]Universities Space Research Association/ NASA Goddard Space Flight Center, [2]NASA Goddard Space Flight Center

15:00
AS40-D4-PM1-309-016

AS40-A007
Application of Multiple-Species Satellite Data Assimilation for KORUS-AQ and Air Quality Monitoring Over East Asia
Kazuyuki MIYAZAKI[1#+], Dejian FU[2], Kevin BOWMAN[2], Susan KULAWIK[3], Takashi SEKIYA[1], Kengo SUDO[4], Yugo KANAYA[1], Louisa EMMONS[5], Benjamin GAUBERT[5], Jerome BARRE[5]
[1]Japan Agency for Marine-Earth Science and Technology, [2]Jet Propulsion Laboratory, California Institute of Technology, [3]Bay Area Environmental Research Institute, [4]Nagoya University, [5]National Center for Atmospheric Research

15:15 AS40-A036

AS40-D4-PM1-309-017

Synoptic A-Train Tropospheric Ozone Maps for KORUS-AQ

Dejian FU[1#], Kazuyuki MIYAZAKI[2+], Susan KULAWIK[3], Kevin BOWMAN[1], John WORDEN[1], Vivienne PAYNE[1], Benton DREW[1]

[1]Jet Propulsion Laboratory, California Institute of Technology, [2]Japan Agency for Marine-Earth Science and Technology, [3]Bay Area Environmental Research Institute

AS41 / Exploration and Science of the Earth's Lower and Middle Atmosphere: Past, Present and Future Perspectives

Thu - 10 Aug | MR334

Session Chair(s) Shikha RAIZADA, *Arceibo Observatory*
K K SHUKLA, *Physical Research Laboratory*

16:00 AS41-A020

AS41-D4-PM2-334-001
Invited

Estimation of Mesospheric Gravity Wave Momentum Flux Using Hybrid Doppler Interferometry

Andrew SPARGO[1], Iain REID[1,2#+], Andrew MACKINNON[1], David HOLDSWORTH[3]

[1]University of Adelaide, [2]ATRAD Pty Ltd, [3]Defence Science and Technology Group

16:20 AS41-A005

AS41-D4-PM2-334-002

Variations in the Vertical Wind at a High Altitude Site in the Himalayan Region Observed Using a Doppler Lidar

Krishna Kumar SHUKLA[1#+], D. V. PHANIKUMAR[2], Rob K. NEWSOM[3], K. Niranjan KUMAR[4], Narendra SINGH[2], Veerabhadra KOTAMARTHI[5], Som Kumar SHARMA[1], Taha B.M.J. OUARDA[6], Narendra OJHA[7]

[1]Physical Research Laboratory, [2]Aryabhatta Research Institute of Observational Sciences, [3]Pacific Northwest National Labarotory, [4]The University of Tokyo, [5]Argonne National Laboratory, [6]Masdar Institute of Science and Technology, [7]Max Planck Institute for Chemistry

16:35 AS41-A008

AS41-D4-PM2-334-003

Biogenic VOCs in Atmosphere – Good Producers of Tropospheric Ozone

Pallavi SAXENA[1#+]

[1]Jawaharlal Nehru University

16:50 AS41-A010

AS41-D4-PM2-334-004
Invited

Intriguing Aspects of Lower Atmospheric Wave Dynamics Over Central Himalayan Region

D. V. PHANIKUMAR[1#+], Niranjan Kumar KONDAPALLI[2]

[1]Aryabhatta Research Institute of Observational Sciences, [2]The University of Tokyo

17:10 AS41-A009

AS41-D4-PM2-334-005

Particle Composition and Morphology Over Urban Environment (New Delhi): Plausible Effects on Wheat Leaves

Sadaf FATIMA[1+], Akhilesh SEHGAL[2], Sumit MISHRA[1#], Usha MINA[3], Vikas GOEL[1], Narayanasamy VIJAYAN[1], Richa KOTHARI[2], C. SHARMA[1], R. K. KOTNALA[1]

[1]CSIR-National Physical Laboratory, [2]Babasaheb Bhimrao Ambedkar University, [3]Indian Agricultural Research Institute

17:25 AS41-A015

AS41-D4-PM2-334-006

Attenuation Due to Fog Particles: A Limitation to Free-Space Optical Communication

Prachi ARORA[1+], Sumit Kumar MISHRA[2#], Ajit Singh AHLAWAT[2], Som Kumar SHARMA[3], R. K. KOTNALA[2]

[1]National Institute of Technology Delhi, [2]CSIR-National Physical Laboratory, [3]Physical Research Laboratory

17:40 AS41-A014

AS41-D4-PM2-334-007

Enhancement of Tropospheric and Surface Ozone Observed During Orography Induced Gravity Waves Over Himalayan Region

D. V. PHANIKUMAR[1#+], Niranjan Kumar KONDAPALLI[2], Samaresh BHATTACHARJEE[1], Manish NAJA[1], Imran GIRACH[3]

[1]Aryabhatta Research Institute of Observational Sciences, [2]The University of Tokyo, [3]Vikram Sarabhai Space Centre

17:55 AS41-A025

AS41-D4-PM2-334-008

Explorations of the Troposphere and Lower Stratosphere Using Multichannel Raman Lidar Over a Western Indian Location

Som Kumar SHARMA[1#+], Krishna SHUKLA[1], Rajesh VAISHNAV[1], Prashant KUMAR[2], Utkarsh DEVA[1], Shyam LAL[1]

[1]Physical Research Laboratory, [2]Space Applications Centre

BG01-02 / Current Status of Greenhouse Gases Emissions in Asian and World Terrestrial Ecosystems

Thu - 10 Aug | MR335

Session Chair(s) Masayuki KONDO, *Chiba University*

08:30
BG01-02-D4-AM1-335-001
BG01-02-A001
Estimating Carbon Stock Differences in a Disturbed Tropical Peat Dome Between 2012 and 2016
Gusti ANSHARI[1,2#+], Evi GUSMAYANTI[1], M. AFIFUDIN[3], Randi CANDRA[1], M. NURIMAN[1]
[1]Universitas Tanjungpura, [2]Peat Restoration Agency, [3]Bappeda Kabupaten Tegal

08:45
BG01-02-D4-AM1-335-002
BG01-02-A014
Source and Rate of N2O Emissions Following Application of N Fertilizer in a Wheat-Maize Rotation System: An In-Situ 15N Tracing Study
Cong XU[1+], Xiao HAN[1], Jingsheng CHEN[1], Yongliang MA[1], Yuechen TAN[1], Wenliang WU[1], Fanqiao MENG[1#]
[1]China Agricultural University

09:00
BG01-02-D4-AM1-335-003
BG01-02-A007
Achieving High Economic Incomes with Low CH4 and N2O Emissions in a Rice-Based Cropping System
Guangbin ZHANG[1#+]
[1]Chinese Academy of Sciences

09:15
BG01-02-D4-AM1-335-004
BG01-02-A006
Endurance of Larch Forest Ecosystems in Eastern Siberia Under Warming Trends
Hisashi SATO[1#+], Hikeki KOBAYASHI[1], Go IWAHANA[2], Takeshi OHTA[3]
[1]Japan Agency for Marine-Earth Science and Technology, [2]University of Alaska Fairbanks, [3]Nagoya University

09:30
BG01-02-D4-AM1-335-005
BG01-02-A005
FLUXCOM Remote Sensing Data Based CO2 Flux Products: Overview and Synthesis
Kazuhito ICHII[1,2#+], Martin JUNG[3], Gianluca TRAMONTANA[4], Gustau CAMPS-VALLS[5], Christopher SCHWALM[6], Masayuki KONDO[1], Dario PAPALE[4], Markus REICHSTEIN[3], Ulrich WEBER[3], Yuji YANAGI[7]
[1]Chiba University, [2]National Institute for Environmental Studies, [3]Max Planck Institute for Biogeochemistry, [4]Tuscia University, [5]University of Valencia, [6]Woods Hole Research Center, [7]Japan Agency for Marine-Earth Science and Technology

09:45
BG01-02-D4-AM1-335-006
BG01-02-A004
An Overview: GOSAT-Based CO2 Observation and the Application of GOSAT Data in Understanding Changes in Surface CO2 Fluxes on Regional Scales
Hiroshi TAKAGI[1#+], Shamil MAKSYUTOV[1]
[1]National Institute for Environmental Studies

10:00
BG01-02-D4-AM1-335-007
BG01-02-A003
Current Status of Global and Regional Carbon Budgets: A Synthesis Analysis of Multiple Estimations Including Top-Down and Bottom-Up Approaches
Masayuki KONDO[1#+], Prabir PATRA[2,3], Stephen SITCH[4], Kazuhito ICHII[2], Tazu SAEKI[2]
[1]Chiba University, [2]Japan Agency for Marine-Earth Science and Technology, [3]Tohoku University, [4]Exeter University

10:15
BG01-02-D4-AM1-335-008

BG01-02-A013
Global Estimation of Methane and Nitrous Oxide Emissions from Penguins in Antarctic
Xianglan LI[1#+]
[1]*Beijing Normal University*

BG04 / General Session

Thu - 10 Aug | MR335

Session Chair(s) Xiujun WANG, *Beijing Normal University*
Choon Weng LEE, *University Malaya*

16:00
BG04-D4-PM2-335-001
Invited

BG04-A002
Biogeography of Marine Planktonic Cyanobacterial Assemblages in Coastal Habitats Based on Deep Phylogeny
Punyasloke BHADURY[1#+], Tarkeshwar SINGH[1]
[1]*Indian Institute of Science Education and Research, Kolkata*

16:20
BG04-D4-PM2-335-002

BG04-A020
Comparing Bacterial Production and Respiration in the West and East Coast of Peninsular Malaysia
Joon Hai LIM[1#+], Choon Weng LEE[1], Chui Wei BONG[1]
[1]*University of Malaya*

16:35
BG04-D4-PM2-335-003

BG04-A021
Viral Dynamics During a Phytoplankton Bloom Event
Choon Weng LEE[1#+], Joon Hai LIM[1], Yi You WONG[1]
[1]*University of Malaya*

16:50
BG04-D4-PM2-335-004

BG04-A022
Vibrio Dynamics in Coastal Waters of Peninsular Malaysia
Yi You WONG[1#+], Choon Weng LEE[1], Chui Wei BONG[1]
[1]*University of Malaya*

17:05
BG04-D4-PM2-335-005

BG04-A019
Spatial and Temporal Variations of Inorganic Carbon in the Sediment of Bosten Lake
Zhitong YU[1,2+], Xiujun WANG[2,3#], Chengyi ZHAO[1]
[1]*Xinjiang Institute of Ecology and Geography, Chinese Academy of Sciences,* [2]*Beijing Normal University,* [3]*University of Maryland*

17:20
BG04-D4-PM2-335-006

BG04-A012
Serpentinites and Associated Phases Showcase Water-Rock Reactions in the Mount Beaufort Ultramafics, Narra, Palawan
Dawn CARDACE[1#+], D'Arcy MEYER-DOMBARD[2], Carlo ARCILLA[3], Kristin WOYCHEESE[4], Emmanuel CODILLO[3]
[1]*University of Rhode Island,* [2]*University of Illinois at Chicago,* [3]*University of the Philippines Diliman,* [4]*Massachusetts Institute of Technology*

17:35
BG04-D4-PM2-335-007

BG04-A003
Boreal Vegetation Shows Different Seasonal Response to Global Warming Over the High-Latitude Northern Hemisphere
Liqun SUN[1#+], Qinglan LI[1], Ji CHEN[2]
[1]*Chinese Academy of Sciences,* [2]*The University of Hong Kong*

BG06-07 / Monitoring and Understanding the State of the Biosphere through Satellites and Modeling

Thu - 10 Aug | MR335

Session Chair(s) Long CAO, *Zhejiang University*

11:00
BG06-07-D4-AM2-335-001
BG06-07-A003
Detecting the Expected and the Unexpected with OCO-2: Atmospheric Carbon Dioxide Variability on Seasonal, Regional, and Point-Source Scales
Florian M. SCHWANDNER[1,2#+], David CRISP[1], Vincent REALMUTO[1], Annmarie ELDERING[1], Michael R. GUNSON[1]
[1]Jet Propulsion Laboratory, California Institute of Technology, [2]University of California, Los Angeles

11:15
BG06-07-D4-AM2-335-002
Invited
BG06-07-A001
The Orbiting Carbon Observatory (OCo-2) Tracks 2-3 Peta-gram Increase in Carbon Release to the Atmosphere During the 2014-2016 El Niño
Prabir PATRA[1,2#+], David CRISP[3]
[1]Japan Agency for Marine-Earth Science and Technology, [2]Tohoku University, [3]Jet Propulsion Laboratory, California Institute of Technology

11:30
BG06-07-D4-AM2-335-003
BG06-07-A007
Satellite-Based Monitoring of Biomass Burning Across Tropical Southeast Asia in 2015 El Nino Year
Kazuhito ICHII[1,2#+], Shinobu KANO[3], Yasuhiro YOSHIDA[3], Ko NISHIMURA[3], Noritaka FURUHASHI[3], Prabir PATRA[4,5]
[1]Chiba University, [2]National Institute for Environmental Studies, [3]Fujitsu FIP Corporation, [4]Japan Agency for Marine-Earth Science and Technology, [5]Tohoku University

11:45
BG06-07-D4-AM2-335-004
BG06-07-A005
Origin of the Seasonal Cycle of Columnar Methane Observed by GOSAT Over South Asia
Sachiko HAYASHIDA[1#+], Naveen CHANDRA[1], Prabir PATRA[2,3], Tazu SAEKI[2]
[1]Nara Women's University, [2]Japan Agency for Marine-Earth Science and Technology, [3]Tohoku University

12:00
BG06-07-D4-AM2-335-005
Invited
BG06-07-A011
Modeling the Carbon and Oxygen Cycles in the Equatorial Pacific: A Basin Scale Model Study
Xiujun WANG[1,2#+], Raghu MURTUGUDDE[2]
[1]Beijing Normal University, [2]University of Maryland

12:15
BG06-07-D4-AM2-335-006
BG06-07-A009
Different Responses of Tropical Pacific Air-Sea CO2 Flux to ENSO in 14 CMIP5 Models
Yangchun LI[1#+], Fang DONG[2], Bin WANG[1]
[1]Chinese Academy of Sciences, [2]Tsinghua University

Session Chair(s) Florian M. SCHWANDNER, *Jet Propulsion Laboratory/ California Institute of Technology (Caltech)*

14:00
BG06-07-D4-PM1-335-007
BG06-07-A012
Modeling the Effect of Global Warming on Oceanic Uptake of CO2
Long CAO[1#+]
[1]Zhejiang University

14:15
BG06-07-D4-PM1-335-008
BG06-07-A006
Accounting for CO2 Variability Over East Asia with a Regional Joint Inversion System and its Preliminary Evaluation
Xingxia KOU[1+], Meigen ZHANG[2#], Xiangjun TIAN[2], Zhen PENG[3]
[1]China Meteorological Administration, [2]Chinese Academy of Sciences, [3]Nanjing University

14:30
BG06-07-D4-PM1-335-009
BG06-07-A010
Influences of Anammox Process on the Ecosystem in the Model of the Pacific Ocean
Yongfu XU[1#+]
[1]Chinese Academy of Sciences

14:45
BG06-07-D4-PM1-335-010
BG06-07-A004
Land-Product Validation of the MODIS Derived FAPAR Product Over the Tropical Dry-Forest of Santa Rosa National Park, Guanacaste, Costa Rica
Iain SHARP[1#+]
[1]University of Alberta

15:00
BG06-07-D4-PM1-335-011
BG06-07-A008
Simulating Global Nitrogen Losses and Trade-Offs with Yields of Major Crops
Wenfeng LIU[1#+], Hong YANG[2]
[1]Eawag, Swiss Federal Institute of Aquatic Science and Technology, [2]Swiss Federal Institute of Aquatic Science and Technology

15:15
BG06-07-D4-PM1-335-012
BG06-07-A013
Impacts of Elevated Carbon Dioxide on the Net Irrigation Water Requirement in Northwest China
Jun NIU[1#+], Shaozhong KANG[1]
[1]China Agricultural University

HS14 / Urban Water-related Disasters

Thu - 10 Aug | MR327

Session Chair(s) Akira KAWAMURA, *Tokyo Metropolitan University*
Kei NAKAGAWA, *Nagasaki University*

08:30
HS14-D4-AM1-327-001
Invited
HS14-A002
Application of K Super Computer Kobe Japan on High-Resolution/Large-Scale Flood Inundation Simulations
Kenichiro KOBAYASHI[1#+]
[1]Kobe University

08:45
HS14-D4-AM1-327-002
HS14-A018
A Study on the Timing to Evacuate and the Situation of Inundation at Flooding
Katsuyuki GOZU[1#+], Shiori TERAI[1], Tadashi YAMADA[1], Morooka YOSHIMASA[1]
[1]Chuo University

09:00
HS14-D4-AM1-327-003
HS14-A016
Hydrological Model Development for Urban Flash Flood Early Warning System Using Weather Radar and TRMM Products as Input
Anjaneyulu AKKIMI[1#+], Kamaljit RAY[2], Subashisa DUTTA[1]
[1]Indian Institute of Technology Guwahati, [2]India Meteorological Department

09:15
HS14-D4-AM1-327-004
HS14-A015
Study on the Effect of Obstacle Information on Flood Evacuation
Shiun NISHIKAWA[1#+], Tomoharu HORI[1], Daisuke NOHARA[1]
[1]Kyoto University

09:30
HS14-D4-AM1-327-005
HS14-A017
Tendencies of High-Risk People on Floods Using Social Media
Satoshi ANZAI[1#+], So KAZAMA[1]
[1]Tohoku University

09:45
HS14-D4-AM1-327-006
HS14-A019
Adaptation Effect for Flood in Whole Using GCMs with Scenarios
So KAZAMA[1#+], Masahiro AKIMA[1]
[1]Tohoku University

10:00
HS14-D4-AM1-327-007
Invited
HS14-A023
Assessment of Flood Vulnerability Focusing on Directly Connected Impervious Areas: A Case Study of Shinwol Area in Seoul
Yongwon SEO[1#+], Junsik HWANG[1]
[1]Yeungnam University

10:15
HS14-D4-AM1-327-008
Invited
HS14-A027
Priority Area Identification Using Fuzzy-Based Analysis of Flood Risk Reduction Management Systems in Metro Manila, Philippines
Romeo GILBUENA[1#+]
[1]Woodfields Consultants Inc

Session Chair(s) So KAZAMA, *Tohoku University*
Kenichiro KOBAYASHI, *Kobe University*

11:00
HS14-D4-AM2-327-009
HS14-A014
Application of the Hydrological Prediction for the Environment (HYPE) Model for a Watershed Mixed Urban and Rural Area
Hiroto TANOUCHI[1#+], Nobuyuki EGUSA[1], Akira KAWAMURA[2], Hideo AMAGUCHI[2], Jonas OLSSON[3], Akihiro MORIMOTO[1]
[1]Wakayama University, [2]Tokyo Metropolitan University, [3]Swedish Meteorological and Hydrological Institute

11:15
HS14-D4-AM2-327-010
HS14-A020
Study on the Robustness of Runoff Model Considering Vertical Infiltration in a Slope
Yoshimasa MOROOKA[1#+], Tadashi YAMADA[1]
[1]Chuo University

11:30
HS14-D4-AM2-327-011
HS14-A004
Infection Risk in an Urban Watershed by the Compound Disaster of Flood and Earthquake
Naoko NAKAGAWA[1#+], Akira KAWAMURA[2], Hideo AMAGUCHI[2]
[1]Rikkyo University, [2]Tokyo Metropolitan University

11:45
HS14-D4-AM2-327-012
Invited
HS14-A012
Application of Unstructured Cartesian Grid Simulator to Tsunami Propagation in Urban Coastal Area
Tetsuya SHINTANI[1#+]
[1]Tokyo Metropolitan University

12:00
HS14-D4-AM2-327-013
HS14-A001
Assessment of the Disastrous Groundwater Resources in Hanoi, Vietnam from an Environmental Perspective
Nuong Thi BUI[1#+], Akira KAWAMURA[1], Hideo AMAGUCHI[1], Duong Du BUI[2], Ngoc Tu TRUONG[3]
[1]Tokyo Metropolitan University, [2]National Center for Water Resources Planning and Investigation, [3]East China University of Science and Technology

12:15
HS14-D4-AM2-327-014
Invited
HS14-A006
Status of Nitrate Pollution and Groundwater Chemistry in Shimabara, Nagasaki, Japan
Kei NAKAGAWA[1#+], Hiroki AMANO[1], Ronny BERNDTSSON[2]
[1]Nagasaki University, [2]Lund University

HS18 / Assessment of Extreme Erosion Processes and Hydrological Drivers in Austral-Asia

Thu - 10 Aug | MR327

Session Chair(s) Roy SIDLE, *University of the Sunshine Coast*

14:00
HS18-D4-PM1-327-001
HS18-A003
Assessment of Sediment Runoff During an Extreme Storm Event Using a Novel Monitoring Approach
Shusuke MIYATA[1#+]
[1]Kyoto University

14:15 HS18-A008
HS18-D4-PM1-327-002 Small-Scale Experimental Studies on Erosion and Runoff Processes: The Role of Soil Wettability
Sergio LOURENCO[1#+], Shuang ZHENG[1]
[1]The University of Hong Kong

14:30 HS18-A006
HS18-D4-PM1-327-003 Hydrological Modelling of Rangelands: A Review of Runoff and Erosion Processes
Ben JARIHANI[1#+], Roy SIDLE[1], Rebecca BARTLEY[2], Christian ROTH[2]
[1]University of the Sunshine Coast, [2]Commonwealth Scientific and Industrial Research Organisation

14:45 HS18-A005
HS18-D4-PM1-327-004 Shallow Landslide Model with Stream-Tube Topographical Divisions, and its Application to Widely Distributed Landslides in Japan
Daizo TSUTSUMI[1#+]
[1]Disaster Prevention Research Institute, Kyoto University

15:00 HS18-A002
HS18-D4-PM1-327-005 Landslides Triggered by the 2016 Kumamoto Earthquakes and Implications for Future Mass Wasting
Roy SIDLE[1#+], Takashi GOMI[2], Kenta KOYANAGI[2]
[1]University of the Sunshine Coast, [2]Tokyo University of Agriculture and Technology

HS20 / Modeling and Analysis of Hydrologic Processes in the Context of Climate Change

Thu - 10 Aug | MR327

Session Chair(s) Van-Thanh-Van NGUYEN, *McGill University*
Shie-Yui LIONG, *National University of Singapore*

16:00 HS20-A002
HS20-D4-PM2-327-001 The Bayesian Processor of Forecasts on the Probabilistic Forecasting of Long-Range Dependent Variables Using General Circulation Models
Hristos TYRALIS[1#+], Demetris KOUTSOYIANNIS[1]
[1]National Technical University of Athens

16:15 HS20-A014
HS20-D4-PM2-327-002 A Case Study on Rainfall Runoff Prediction Using Hydro Meteorological Linkage System
Jinhyeog PARK[1#+], Youngteck HUR[1], Suhyung JANG[1]
[1]K-water Institute

16:30 HS20-A006
HS20-D4-PM2-327-003 The Future Change of the Occurrence Frequency of Atmospheric Characteristics of Heavy Rainfall in Japanese Rainy Season by Using SOM Map
Yukari OSAKADA[1+], Eiichi NAKAKITA[1#]
[1]Kyoto University

16:45 HS20-A008
HS20-D4-PM2-327-004 Analysis of the Future Changes in the Frequency of the Small-Scale Torrential Rainfall Under Global Warming Using Very-Fine Mesh RCM in Japan
Eiichi NAKAKITA[1#], Keitaro MORIMOTO[1+], Yoshiya TOUGE[2]
[1]Kyoto University, [2]Tohoku University

17:00 HS20-A015

HS20-D4-PM2-327-005 Investigations on the Impact of Projected Sea Level Rise on the Groundwater Regime in a Coastal Aquifer

Sithara S[1+], Pramada S.K.[1#], Santosh G. THAMPI[1]

[1]*National Institute of Technology Calicut*

17:15 HS20-A017

HS20-D4-PM2-327-006 Impacts of More Extreme Climate on Long-Term Runoff in the Pearl River Basin, China

Jianfeng LI[1#+]

[1]*Hong Kong Baptist University*

17:30 HS20-A020

HS20-D4-PM2-327-007 Recent Advances in Statistical Downscaling of Rainfall Process for Impact and Adaptation Studies in Urban Areas

Van-Thanh-Van NGUYEN[1#+]

[1]*McGill University*

IG01 / Natural Hazards: Understanding Disaster Risk

Thu - 10 Aug | MR332

Session Chair(s) Vena Pearl BONGOLAN, *University of the Philippines Diliman*
Isaac KERLOW, *Nanyang Technological University*

08:30 IG01-A026
IG01-D4-AM1-332-001
Development of Multi-Scenario High-Resolution Hydro-Meteorological Hazard Maps in the Philippines for Disaster Risk Reduction and Management Planning
Jerico MENDOZA[1#+], Joy SANTIAGO[1], Alfredo Mahar LAGMAY[2,3]
[1]Nationwide Operational Assessment of Hazards (Project NOAH), [2]University of the Philippines Diliman, [3]UP Nationwide Operational Assessment of Hazards Center

08:45 IG01-A002
IG01-D4-AM1-332-002
Earth Girl Volcano: An Interactive Tablet Game to Mitigate Volcanic Disaster Risk
Isaac KERLOW[1#+]
[1]Nanyang Technological University

09:00 IG01-A001
IG01-D4-AM1-332-003
Understanding and Detecting Super-Extreme Droughts in Southwest China Through an Integrated Approach and Index
Lin WANG[1#+], Wen CHEN[2], Wen ZHOU[3], Gang HUANG[2]
[1]Institute of Atmospheric Physics, Chinese Academy of Sciences, [2]Chinese Academy of Sciences, [3]City University of Hong Kong

09:15 IG01-A022
IG01-D4-AM1-332-004
Assessing Climate Change Impacts on Wildfire Potential in the Korean Peninsula
Seung Hee KIM[1#+], Jinwon KIM[1], Woo-Kyun LEE[2], Chul-Hee LIM[2], Myoung-Seok SUH[3], Seok-Geun OH[3], Marcus CHONG[1], Menas KAFATOS[1]
[1]Chapman University, [2]Korea University, [3]Kongju National University

09:30 IG01-A030
IG01-D4-AM1-332-005
Development Features of the Post-Fire Debris Flow Located in Reneyong Ditch, Sichuan Province, China
Yan WANG[1+], Xiewen HU[1#]
[1]Southwest Jiaotong University

09:45 IG01-A018
IG01-D4-AM1-332-006
Debris Flows Triggered by Typhoon Koppu in Nueva Ecija, Philippines in October 2015
Francesca LLANES[1#+], Rodrigo ECO[1], Tatum Miko HERRERO[2], Jo BRIONES[3], Carmille ESCAPE[2], Jolly SULAPAS[2], Jan Albert Macario GALANG[2,3], Iris Jill ORTIZ[2,3], Jasmine SABADO[4], Alfredo Mahar LAGMAY[1,5], Kelvin RODOLFO[6]
[1]University of the Philippines Diliman, [2]National Institute of Geological Sciences, [3]Project NOAH, [4]Development Academy of the Philippines, [5]UP Nationwide Operational Assessment of Hazards Center, [6]University of Illinois at Chicago

10:00 IG01-A028
IG01-D4-AM1-332-007
Natural and Human-Induced Landslide Hazards in and Around Aizawl City, Mizoram, India
Raghupratim RAKSHIT[1#+], Devojit BEZBARUAH[1], Bubul BHARALI[2]
[1]Dibrugarh University, [2]Pachhunga University College

10:15
IG01-D4-AM1-332-008
IG01-A029
Some Key Problems on Survey and Design of Bebris Flow in Wenchuan Earthquake Area
Xiewen HU[1#+]
[1]*Southwest Jiaotong University*

Session Chair(s) James TERRY, *Zayed University*

11:00
IG01-D4-AM2-332-009
IG01-A017
Seismic Hazard and Risk Assessment of Himachal Pradesh and its Contiguous Area
Swati Singh RAJPUT[1#+], Mridula MRIDULA[1], Amita SINVHAL[1], Ravi S. JAKKA[1]
[1]*Indian Institute of Technology Roorkee*

11:15
IG01-D4-AM2-332-010
IG01-A011
Stochastic Storm Surge Modeling in the Philippine Archipelago Using ADCIRC+SWAN
Joshua Frankie RAYO[1#+], Vena Pearl BONGOLAN[1]
[1]*University of the Philippines Diliman*

11:30
IG01-D4-AM2-332-011
Invited
IG01-A004
Historical Reconstruction of River Avulsions in the Chiang Mai Basin, Thailand
Elisha TEO[1#+], Alan ZIEGLER[1], Robert WASSON[1], Paulramasamy MORTHEKAI[2]
[1]*National University of Singapore,* [2]*Birbal Sahni Institute of Palaeosciences*

11:50
IG01-D4-AM2-332-012
Invited
IG01-A023
Using a Geomicrobial Approach to Investigate the Geological Records of Coastal Hazards
Wenshu YAP[1#+], Federico LAURO[1], Adam SWITZER[1], Christos GOURAMANIS[2], Dale DOMINEY-HOWES[3], Maurizio LABBATE[4]
[1]*Nanyang Technological University,* [2]*National University of Singapore,* [3]*University of Sydney,* [4]*University of Technology Sydney*

12:10
IG01-D4-AM2-332-013
IG01-A019
Post-Tsunami Beach Recovery in Thailand: A Case for Punctuated Equilibrium in Coastal Dynamics
Adam SWITZER[1#+], Christos GOURAMANIS[2], Charles BRISTOW[3], Jeff YEO[1], Kruawun JANKAEW[4], Charles RUBIN[1], Ying Sin LEE[1], Dat PHAM[5]
[1]*Nanyang Technological University,* [2]*National University of Singapore,* [3]*University of London,* [4]*Chulalongkorn University,* [5]*Viet Nam Institute of Meteorology, Hydrology and Climate Change*

IG04 / General Session

Thu - 10 Aug | MR332

Session Chair(s) Kazuhisa GOTO, *Tohoku University*
Anawat SUPPASRI, *Tohoku University*

16:00
IG04-D4-PM2-332-001
IG04-A002
Using Animation to Communicate Earth Science and Natural Hazards
Isaac KERLOW[1#+]
[1]*Nanyang Technological University*

16:15 IG04-A006
IG04-D4-PM2-332-002 Linking Students' Language Academic Performance with the Surrounding Greenness of Schools in Massachusetts
Wing Tuen Veronica LEUNG[1+], Tuen Yee Tiffany TAM[2], Wen Chi PAN[3], Shih-Chun Candice LUNG[4], Chih-Da WU[2#]
[1]National Health Research Institutes, [2]National Chiayi University, [3]National Yang-Ming University, [4]Academia Sinica

16:30 IG04-A015
IG04-D4-PM2-332-003 Holocene Environmental Indicated by Stable Isotope Records of Mollusk Shells from the Bolgoda Lake, Sri Lanka
Horng-Sheng MII[1#+], Tsai-Wen LIN[1], Joyanto ROUTH[2], Shih-Wei WANG[3]
[1]National Taiwan Normal University, [2]Linköping University, [3]National Museum of Natural Science

16:45 IG04-A027
IG04-D4-PM2-332-004 Multi-Index Drought Monitoring Framework: To Assess Drought Impacts on Food Security
Tue VU[1#], Ze JIANG[2+], Srivatsan RAGHAVAN[2], Jina HUR[2], Shie-Yui LIONG[2]
[1]Clemson University, [2]National University of Singapore

17:00 IG04-A001
IG04-D4-PM2-332-005 Sustainability of a Geothermal System in Al-Ain Area, United Arab Emirates
Hakim SAIBI[1], Saber HUSSEIN[1], Ahmed MURAD[1#+], Ala ALDAHAN[1]
[1]United Arab Emirates University

17:15 IG04-A003
IG04-D4-PM2-332-006 Integrated Borehole Televiewer and Double Packer Test Data Applied to Rock Mass Permeability Classification
Shihmeng HSU[1#+], Yen-Tsu LIN[2], Chi Chao HUANG[2]
[1]National Taiwan Ocean University, [2]Central Geological Survey

17:30 IG04-A004
IG04-D4-PM2-332-007 Sandsheets Galore! High-Frequency Coastal Overwash Deposits from Phra Thong Island, Thailand
Christos GOURAMANIS[1#+], Adam SWITZER[2], Kruawun JANKAEW[3], Charles BRISTOW[4], Dat PHAM[5]
[1]National University of Singapore, [2]Nanyang Technological University, [3]Chulalongkorn University, [4]University of London, [5]Viet Nam Institute of Meteorology, Hydrology and Climate Change

IG06 / Research-based Practical Techniques and Applications in Earthquake and Tsunami Risk Reduction

Thu - 10 Aug | MR332

Session Chair(s) Anawat SUPPASRI, *Tohoku University*
Natt LEELAWAT, *Chulalongkorn University*

14:00 IG06-A004
IG06-D4-PM1-332-001 Tsunami Deposit in a V-Shaped Valley from the 2011 Tohoku and Older Earthquakes: Sediment Transport Modeling and Classification of Tsunamis
Kenji SATAKE[1#+], Tomoko GOTO[1], Takeo ISHIBE[2], Aditya GUSMAN[1]
[1]The University of Tokyo, [2]Association for the Development of Earthquake Prediction (ADEP)

14:15
IG06-D4-PM1-332-002
IG06-A003
The 2016 Fukushima Earthquake and Tsunami: Preliminary Research and New Considerations for Tsunami Disaster Risk Reduction
Anawat SUPPASRI[1#+], Natt LEELAWAT[2], Panon LATCHAROTE[1], Volker ROEBER[1], Kei YAMASHITA[1], Akihiro HAYASHI[1], Akifumi HISAMATSU[1], David NGUYEN[1], Fumihiko IMAMURA[1]
[1]Tohoku University, [2]Chulalongkorn University

14:30
IG06-D4-PM1-332-003
IG06-A010
An Appraisal of Probabilistic Tsunami Threat Based on Stochastic Modeling in the Western Pacific Tsunamigenic Region
Sandeep GUPTA[1#+], R.B.S. YADAV[1]
[1]Kurukshetra University

14:45
IG06-D4-PM1-332-004
IG06-A006
Marine City Inundation in Busan by Typhoon Chaba (2016)
Seung-Nam SEO[1#+], Young-Kwang CHOI[1]
[1]Korea Institute of Ocean Science and Technology

15:00
IG06-D4-PM1-332-005
IG06-A001
Practical Applications Based on Tsunami Research
Natt LEELAWAT[1#+], Anawat SUPPASRI[2], Panon LATCHAROTE[2], Sarunyoo LAMUNGKUN[3], Ingrid CHARVET[4], Yoshi ABE[2], Kazuya SUGIYASU[2], Jaehyun PARK[5], Junichi IIJIMA[5], Fumihiko IMAMURA[2]
[1]Chulalongkorn University, [2]Tohoku University, [3]Pasona Tquila Inc., [4]Risk Management Solutions, [5]Tokyo Institute of Technology

OS03 / Oceanic Energy Cascade and Mixing

Thu - 10 Aug | MR330

Session Chair(s) Zhiyu LIU, *Xiamen University*
Robin ROBERTSON, *UNSW Canberra*

08:30
OS03-D4-AM1-330-001
OS03-A008
The Decadal Variation of the Salinity in the Indonesian Seas and its Link to the Change of Tidal Mixing Strength
Shiqiu PENG[1#+], Yi LIU[2], Ping LI[2]
[1]*Chinese Academy of Sciences*, [2]*South China Sea Institute of Oceanology*

08:45
OS03-D4-AM1-330-002
OS03-A001
The Dependence of Tidal Effects Including Internal Tides and Mixing on Latitude
Robin ROBERTSON[1#+]
[1]*University of New South Wales*

09:00
OS03-D4-AM1-330-003
OS03-A005
Numerical Simulation Study of the Influence of Tidal Mixing on AMOC
Zipeng YU[1+], Hailong LIU[1#], Pengfei LIN[1]
[1]*Chinese Academy of Sciences*

09:15
OS03-D4-AM1-330-004
OS03-A006
Surface Layer Structure and Turbulent Kinetic Energy Dissipation Across the East Australian Current
Andrew FRIEDRICHS[1#+], Remo COSSU[2], David SPENCER[3], Alexander FORREST[1], Charles LEMCKERT[3,4], Larissa PEREZ[2]
[1]*University of California - Davis*, [2]*University of Queensland*, [3]*Griffith University*, [4]*University of Canberra*

09:30
OS03-D4-AM1-330-005
OS03-A002
Effects of Tropical Instability Waves (TIWs) in Inducing Thermocline Mixing in the Eastern Equatorial Pacific
Chuanyu LIU[1#+], Armin KOEHL[2], Zhiyu LIU[3], Fan WANG[1], Detlef STAMMER[2]
[1]*Chinese Academy of Sciences*, [2]*University of Hamburg*, [3]*Xiamen University*

09:45
OS03-D4-AM1-330-006
OS03-A007
Tidal Mixing Estimation and its Impacts on Water Mass Transformation and Circulation in the Indonesian Seas
Yi LIU[1+], Shiqiu PENG[2#]
[1]*South China Sea Institute of Oceanology*, [2]*Chinese Academy of Sciences*

PS03 / Solar Wind Interaction with Planetary Environments

Thu - 10 Aug | MR311

Session Chair(s)

Robert LILLIS, *Space Sciences Laboratory*
Dominique DELCOURT, *Laboratoire de Physique des Plasmas - French National Centre for Scientific Research*

11:00
PS03-D4-AM2-311-001
Invited

PS03-A003
Mars Solar Wind Interaction: Updates from Maven
Janet LUHMANN[1#+], Chaunfei DONG[2], Y.J. MA[3], Shannon CURRY[1], Shaosui XU[1], Gina DI BRACCIO[4], David MITCHELL[1], J. E. P. CONNERNEY[4], Jasper HALEKAS[5], James MCFADDEN[1], Mehdi BENNA[4], Paul MAHAFFY[4], David A. BRAIN[6], Bruce JAKOSKY[6]
[1]University of California, Berkeley, [2]Princeton Plasma Physics Laboratory, [3]University of California, Los Angeles, [4]NASA Goddard Space Flight Center, [5]University of Iowa, [6]University of Colorado Boulder

11:15
PS03-D4-AM2-311-002

PS03-A019
Magnetic Topology and Ion Outflow in Mars' Magnetotail
David MITCHELL[1#+], Shaosui XU[1], Takuya HARA[1], Janet LUHMANN[1], Christian MAZELLE[2], James MCFADDEN[1], Laila ANDERSSON[3], Gina DI BRACCIO[4], J. E. P. CONNERNEY[4]
[1]University of California, Berkeley, [2]Paul Sabatier University, [3]University of Colorado Boulder, [4]NASA Goddard Space Flight Center

11:30
PS03-D4-AM2-311-003

PS03-A010
Mapping Field-Aligned Potentials in the Martian Tail by Maven
Shaosui XU[1#+], David MITCHELL[1], James MCFADDEN[1], Glyn COLLINSON[2], Yuki HARADA[1], Robert LILLIS[1], Christian MAZELLE[3], J. E. P. CONNERNEY[2]
[1]University of California, Berkeley, [2]NASA Goddard Space Flight Center, [3]Paul Sabatier University

11:45
PS03-D4-AM2-311-004

PS03-A011
Transient Foreshock Phenomena at Mars and Venus and Their Effects on the Induced Magnetosphere and Ionosphere
Glyn COLLINSON[1#+], N. OMIDI[2], Jasper HALEKAS[3], David SIBECK[1]
[1]NASA Goddard Space Flight Center, [2]Solana Scientific Inc., [3]University of Iowa

12:00
PS03-D4-AM2-311-005
Invited

PS03-A014
Thermospheric Perturbations at Mars, Venus, and Earth: Solar Wind or Lower Atmosphere Forcing?
Naoki TERADA[1#+], Kaori TERADA[1], Hiromu NAKAGAWA[1], Francois LEBLANC[2], Alexander S. MEDVEDEV[3], Erdal YIĞIT[4], Takeshi KURODA[5], Takuya HARA[6], Scott ENGLAND[6], Hitoshi FUJIWARA[7], Paul MAHAFFY[8], Meredith ELROD[8], Mehdi BENNA[8], Joseph GREBOWSKY[9], Bruce JAKOSKY[10]
[1]Tohoku University, [2]French National Centre for Scientific Research, [3]Max Planck Institute for Solar System Research, [4]George Mason University, [5]National Institute of Information and Communications Technology, [6]University of California, Berkeley, [7]Seikei University, [8]NASA Goddard Space Flight Center, [9]National Aeronautics and Space Administration, [10]University of Colorado Boulder

12:15
PS03-D4-AM2-311-006
Invited

PS03-A006
Solar Wind Interaction with the Moon
Jasper HALEKAS[1#+], Andrew POPPE[2], William M. FARRELL[3]
[1]University of Iowa, [2]University of California, Berkeley, [3]NASA Goddard Space Flight Center

Session Chair(s)
Dominique DELCOURT, *Laboratoire de Physique des Plasmas - French National Centre for Scientific Research*
Robert LILLIS, *Space Sciences Laboratory*

14:00
PS03-D4-PM1-311-007
Invited
PS03-A012
Ion Composition and Circulation in the Magnetosphere of Mercury
Jim RAINES[1#+], James SLAVIN[1], Patrick TRACY[1], Daniel GERSHMAN[2], Ryan DEWEY[1], Menelaos SARANTOS[2]
[1]University of Michigan, [2]NASA Goddard Space Flight Center

14:15
PS03-D4-PM1-311-008
PS03-A005
Equatorial Distribution of Plasma Sheet Protons in the Near Mercury's Magnetotail: MESSENGER Observations
Weijie SUN[1#+], Jim RAINES[2], Suiyan FU[3], James SLAVIN[2], Yong WEI[1], Gangkai POH[2], Z. H. YAO[4], Weixing WAN[1]
[1]Chinese Academy of Sciences, [2]University of Michigan, [3]Peking University, [4]University of Liege

14:30
PS03-D4-PM1-311-009
PS03-A007
Transport of Mass and Energy in Mercury's Central Plasma Sheet
Gangkai POH[1#+], James SLAVIN[1], Xianzhe JIA[1], Suzanne IMBER[2], Jim RAINES[1], Gina DI BRACCIO[3], Daniel GERSHMAN[3], Weijie SUN[4]
[1]University of Michigan, [2]University of Leicester, [3]NASA Goddard Space Flight Center, [4]Chinese Academy of Sciences

14:45
PS03-D4-PM1-311-010
Invited
PS03-A004
Electron-Hybrid and MHD Cross-Reference Simulations of Whistler-Mode Chorus in the Inner Magnetosphere of Earth, Jupiter and Mercury
Yuto KATOH[1#+], Keiichiro FUKAZAWA[2], Manabu YAGI[1]
[1]Tohoku University, [2]Kyoto University

15:00
PS03-D4-PM1-311-011
PS03-A015
Solar Wind Interactions with Jupiter's Magnetosphere: Current Understanding and Future Observations
Robert EBERT[1#+], Frederic ALLEGRINI[1], Fran BAGENAL[2], David MCCOMAS[3], Jamey SZALAY[1], Michelle THOMSEN[4], Philip VALEK[1], Rob WILSON[2]
[1]Southwest Research Institute, [2]University of Colorado Boulder, [3]Princeton University, [4]Planetary Science Institute

15:15
PS03-D4-PM1-311-012
Invited
PS03-A002
Cassini View of Kronian Magnetospheric Dynamics
Norbert KRUPP[1#+], Elias ROUSSOS[1], Peter KOLLMANN[2], Krishan KHURANA[3], Xianzhe JIA[4]
[1]Max Planck Institute for Solar System Research, [2]The Johns Hopkins University Applied Physics Laboratory, [3]University of California, Los Angeles, [4]University of Michigan

PS09 / Atmospheres and Interiors of Jupiter and Saturn

Thu - 10 Aug | MR310

Session Chair(s) K. CHAN, *Macau University of Science and Technology*
D. KONG, *Exeter University*
X. WEI, *Shanghai Jiao Tong University*

08:30
PS09-D4-AM1-310-001
Invited
PS09-A004
Jovian Inner Radiation Belt and Quasi-Periodic Polar Activities
Yu-Qing LOU[1#+]
[1]*Tsinghua University*

08:45
PS09-D4-AM1-310-002
Invited
PS09-A005
Numerical Simulations of Overshooting Above a Convection Zone
Tao CAI[1#+]
[1]*Sun Yat-sen University*

09:00
PS09-D4-AM1-310-003
PS09-A006
Spontaneous Generation of Long-Lived Anticyclone in Low-Latitude Fast-Rotating Convection Zone - Structure and Dynamics of the Vortex
Kwing Lam CHAN[1#+]
[1]*Macau University of Science & Technology*

09:15
PS09-D4-AM1-310-004
PS09-A007
Rotational Effect on Surface Equatorial Zonal Flow of a Shell Convection Zone - Transition from Retrograde to Prograde
Keith K. C. CHOW[1#+], Kwing Lam CHAN[1]
[1]*Macau University of Science & Technology*

09:30
PS09-D4-AM1-310-005
Invited
PS09-A002
A Four-Layer, Non-Spheroidal Model of Jupiter with its Zonal Winds
Dali KONG[1#+]
[1]*Chinese Academy of Sciences*

09:45
PS09-D4-AM1-310-006
PS09-A008
The Local Time-Dependant Characteristics of Magnetic Flux Rope at Saturn
Ruilong GUO[1#+], Z. H. YAO[2], Yong WEI[1]
[1]*Chinese Academy of Sciences,* [2]*University of Liege*

10:00
PS09-D4-AM1-310-007
PS09-A001
Precession Dynamo and Dynamical Tides
Xing WEI[1#+]
[1]*Shanghai Jiao Tong Universeity*

10:15
PS09-D4-AM1-310-008
PS09-A003
Using Jupiter's Gravitational Field to Probe the Jovian Convective Dynamo
Keke ZHANG[1#+]
[1]*University of Exeter*

PS10 / Comparative Aeronomy of Solar System Bodies

Thu - 10 Aug | MR310

Session Chair(s) Robert LILLIS, *University of California at Berkeley*
Jun CUI, *Sun Yat-Sen University*

16:00
PS10-D4-PM2-310-001
Invited

PS10-A004
Pluto's Aeronomy: What We Learned from New Horizon and Comparsions with the Nitrogen Atmospheres of Titan and Triton
Darrell STROBEL[1#+], Xun ZHU[1]
[1]*Johns Hopkins University*

16:20
PS10-D4-PM2-310-002
Invited

PS10-A001
A Review of Diamagnetic Regions in the Solar System
Charlotte GOETZ[1#+]
[1]*Technische Universitaet Braunschweig*

16:40
PS10-D4-PM2-310-003
Invited

PS10-A012
New Insights into the Martian Ionosphere from the Maven Mission
Christopher FOWLER[1#+], Laila ANDERSSON[2], David ANDREWS[3], Mehdi BENNA[4], Jared ESPLEY[4], Matthew FILLINGIM[5], Jane FOX[6], Jasper HALEKAS[7], Bruce JAKOSKY[2], James MCFADDEN[5], David MITCHELL[5], Shotaro SAKAI[8], Morgane STECKIEWICZ[9], Marissa VOGT[10], Paul WITHERS[10], Shaosui XU[5]
[1]*Laboratory for Atmospheric and Space Physics / University of Colorado Boulder,* [2]*University of Colorado Boulder,* [3]*Swedish Institute of Space Physics,* [4]*NASA Goddard Space Flight Center,* [5]*University of California, Berkeley,* [6]*Wright State University,* [7]*University of Iowa,* [8]*University of Kansas,* [9]*Universite de Toulouse,* [10]*Boston University*

17:00
PS10-D4-PM2-310-004

PS10-A014
State of Martian Upper Atmosphere as Observed by Imaging Ultraviolet Spectroscope Onboard MAVEN
Sonal JAIN[1#+], Ian STEWART[1], Justin DEIGHAN[1], Nick SCHNEIDER[1], Michael CHAFFIN[1], Matteo CRISMANI[1], Michael STEVENS[2], Joseph EVANS[3], William MCCLINTOCK[1], Frank EPARVIER[1], Ed THIEMANN[1], Arnaud STIEPEN[4], Phillip CHAMBERLIN[5], Bruce JAKOSKY[1]
[1]*University of Colorado Boulder,* [2]*Naval Research Laboratory,* [3]*Computational Physics, Inc.,* [4]*Université de Liège,* [5]*NASA Goddard Space Flight Center*

17:15
PS10-D4-PM2-310-005

PS10-A013
Hydrogen Loss from Mars: Seasonal and Sourced from Upper Atmospheric Water
Michael CHAFFIN[1#+], Justin DEIGHAN[1], Ian STEWART[1], Nick SCHNEIDER[1], Jean-Yves CHAUFRAY[2], William MCCLINTOCK[1], Ed THIEMANN[1], Majd MAYYASI[3], John CLARKE[3], Gregory HOLSCLAW[1], Sonal JAIN[1], Matteo CRISMANI[1], Arnaud STIEPEN[4], Franck MONTMESSIN[5], Frank EPARVIER[1], Bruce JAKOSKY[1]
[1]*University of Colorado Boulder,* [2]*University Pierre et Marie Curie,* [3]*Boston University,* [4]*Université de Liège,* [5]*University of Versailles Saint-Quentin-en-Yvelines*

17:30 PS10-A019

PS10-D4-PM2-310-006

Photochemical Escape of Oxygen and Carbon from Mars, Today and Through Time

Robert LILLIS[1#+], Justin DEIGHAN[2], Jane FOX[3], Stephan W BOUGHER[4], Yuni LEE[4], Thomas E. CRAVENS[5], Ali RAHMATI[1], Paul MAHAFFY[6], Mehdi BENNA[6], James MCFADDEN[1], Christopher FOWLER[7], Jean-Yves CHAUFRAY[8], Laila ANDERSSON[2], Hannes GRÖLLER[9], Bruce JAKOSKY[2]

[1]University of California, Berkeley, [2]University of Colorado Boulder, [3]Wright State University, [4]University of Michigan, [5]University of Kansas, [6]NASA Goddard Space Flight Center, [7]Laboratory for Atmospheric and Space Physics / University of Colorado Boulder, [8]University Pierre et Marie Curie, [9]University of Arizona

17:45 PS10-A006

PS10-D4-PM2-310-007
Invited

Comparative Aeronomy of Earth and Mars with ICON and MAVEN

Scott ENGLAND[1#+]

[1]Virginia Tech

PS12-ST23 / Future and Current Space Missions and Instrumentation for Space and Planetary Science

Thu - 10 Aug | MR310

Session Chair(s) Yoshifumi SAITO, *Institute of Space and Astronautical Science / Japan Aerospace Exploration Agency*

11:00 PS12-ST23-A021

PS12-ST23-D4-AM2-310-001

A Novel Spacecraft with an Innovative Payload for Radiation Measurements Between Venus and Mars Orbits

Premkumar SAGANTI[1#+]

[1]Prairie View A&M University

11:15 PS12-ST23-A004

PS12-ST23-D4-AM2-310-002
Invited

Cubesat: Inner Radiation Belt Experiment (CIRBE)

Xinlin LI[1#+]

[1]University of Colorado Boulder

11:35 PS12-ST23-A007

PS12-ST23-D4-AM2-310-003
Invited

Planetary Science Missions and Participations at Nasa

James GREEN[1#+], Doris DAOU[1]

[1]NASA Headquarters

11:55 PS12-ST23-A011

PS12-ST23-D4-AM2-310-004

Aditya Solar Wind & Particle Experiment (ASPEX) Onboard Aditya - L1 Mission

Shiv Kumar GOYAL[1#+], Prashant KUMAR[1], Pranav ADHYARU[1], Arpit PATEL[1], Neeraj Kumar TIWARI[1], Hitesh ADALJA[1], M. SHANMUGAM[1], M. B. DADHANIA[1], Tinkal LADIYA[1], Mithun Neelakandan P. S.[1], S. B. BANERJEE[1], Santosh VADAWALE[1], K. P. SUBRAMANIAN[1], Janardhan PADMANABHAN[1], Dibyendu CHAKRABARTY[1], Aveek SARKAR[1], Bhas BAPAT[2], Arup Kumar HAIT[3], Mamta CHAUHAN[3], Rakesh R. BHAVSAR[3]

[1]Physical Research Laboratory, [2]Indian Institute of Science Education and Research, [3]Space Applications Centre

12:10
PS12-ST23-D4-AM2-310-005

PS12-ST23-A002
The Medium Energy Particle Detector in the Range of 20 - 400 KeV for the Research of Geomagnetic Storm on NEXTSat-1
Yongmyung SEO[1#+], Seyoung YOON[2], Ju WOO[1], Woohyung SEOL[1], Chaean LEE[1], Chanhaeng LEE[1], Jongho SEON[1], Jongdae SOHN[3], Kyoung Wook MIN[4], Kyungin KANG[5], Goohwan SHIN[5], Jangsoo CHAE[5]
[1]Kyung Hee University, [2]Satrec Initiative, [3]Korea Astronomy and Space Science Institute, [4]Korea Advanced Institute of Science and Technology, [5]Satellite Technology Research Center

Session Chair(s) Andrew YAU, *University of Calgary*

14:00
PS12-ST23-D4-PM1-310-006
Invited

PS12-ST23-A012
Emirates Mars Mission: 2020 Hope Probe
Omran SHARAF[1], Sarah AMIRI[1#+], Suhail AL-DHAFRI[1], Maryam AL-SHAMSI[1], Hessa AL-MATROUSHI[1], Pete WITHNELL[2], David A. BRAIN[2], Michael WOLFF[3], Michael SMITH[4], Robert LILLIS[5], Christopher EDWARDS[6], Justin DEIGHAN[2], Michael CHAFFIN[2]
[1]Mohamed bin Rashid Space Centre, [2]University of Colorado Boulder, [3]Space Science Institute, [4]NASA Goddard Space Flight Center, [5]University of California, Berkeley, [6]Northern Arizona University

14:20
PS12-ST23-D4-PM1-310-007
Invited

PS12-ST23-A018
Science and Exploration of Indian Mars Mission: MOM-2
S.A. HAIDER[1#+], Anil BHARDWAJ[1], Durga Prasad KARANAM[1], Chandan KUMAR[1], Sanjeev MISHRA[1], Varun SHEEL[1], Jayesh PABARI[1], Arpit PATEL[1], M. SHANMUGAM[1], Shiv Kumar GOYAL[1]
[1]Physical Research Laboratory

14:40
PS12-ST23-D4-PM1-310-008
Invited

PS12-ST23-A020
Coronagraph on the International Space Station
Kyungsuk CHO[1#+], Su-Chan BONG[1], Sunghwan CHOI[1], Yang HEESU[1], Jihun KIM[1], Ji-Hye BAEK[1], Young-Deuk PARK[1], Steven CLARKE[2], Joseph M. DAVILA[3], Natchimuthuk GOPALSWAMY[2], Yong-Jae MOON[4], Jongchul CHAE[5]
[1]Korea Astronomy and Space Science Institute, [2]National Aeronautics and Space Administration (NASA), [3]NASA Goddard Space Flight Center, [4]Kyung Hee University, [5]Seoul National University

15:00
PS12-ST23-D4-PM1-310-009

PS12-ST23-A017
Instrumentation for Space Coronal Magnetic Field Mission
Haosheng LIN[1#+]
[1]Institute for Astronomy, University of Hawaii

15:15
PS12-ST23-D4-PM1-310-010

PS12-ST23-A014
Alpha Particle X-ray Spectrometer for the Chandrayaan-2 Rover
Arpit PATEL[1#+], M. SHANMUGAM[1], Mithun Neelakandan P. S.[1], Shiv Kumar GOYAL[1], Tinkal LADIYA[1], Hitesh ADALJA[1], Santosh VADAWALE[1]
[1]Physical Research Laboratory

PS14-16 / Science and Exploration of the Moon and Mercury

Thu - 10 Aug | MR311

Session Chair(s) Kyeong Ja KIM, *Korea Institute of Geoscience and Mineral Resources*
Makiko OHTAKE, *Japan Aerospace Exploration Agency*

08:30 PS14-16-A010
PS14-16-D4-AM1-311-001
Mercury Surface Studies with Bepi-Colombo's Planetary Orbiter
Johannes BENKHOFF[1#+]
[1]*European Space Agency*

08:45 PS14-16-A004
PS14-16-D4-AM1-311-002
High-Resolution Topography from Messenger Orbital Stereo Imaging – Processing of Mercury's Map Quadrangles
Juergen OBERST[1#+], Frank PREUSKER[1], Alexander STARK[1]
[1]*German Aerospace Center (DLR)*

09:00 PS14-16-A005
PS14-16-D4-AM1-311-003
Probing the Interior of the Moon and Mercury: A Comparison of Spectrally Distinctive Material Excavated by Imbrium and Caloris Basins
Rachel KLIMA[1#+], Debra BUCZKOWSKI[1], Brett DENEVI[1], Carolyn ERNST[1], Benjamin GREENHAGEN[1]
[1]*Johns Hopkins University Applied Physics Laboratory*

09:15 PS14-16-A002
PS14-16-D4-AM1-311-004
Mercury is Not the Moon - The Spectral Perspective
Jorn HELBERT[1#+], Alessandro MATURILLI[1], Indhu VARATHARAJAN[1], Mario D'AMORE[1]
[1]*German Aerospace Center (DLR)*

09:30 PS14-16-A009
PS14-16-D4-AM1-311-005
Vertical Compositional Structure of the Lunar Highland Crust Based on Crater Central Peaks and Basin Interiors
Makiko OHTAKE[1#+]
[1]*Japan Aerospace Exploration Agency*

09:45 PS14-16-A001
PS14-16-D4-AM1-311-006
On the Importance of Self-Secondaries
Zhiyong XIAO[1#+]
[1]*China University of Geosciences*

10:00 PS14-16-A026
PS14-16-D4-AM1-311-007
Spectral Behaviors of Lunar Crater Wall Quadrants
Chae Kyung SIM[1#+], Sungsoo KIM[1]
[1]*Kyung Hee University*

Session Chair(s) Joern HELBERT, *The German Aerospace Center*
Zhiyong XIAO, *China University of Geosciences*

16:00 PS14-16-A003
PS14-16-D4-PM2-311-008
Potassium and Thorium Distributions on the Surface of the Moon: High Spatial Resolution Maps from KAGUYA Gamma-Ray Spectrometer
Nobuyuki HASEBE[1#+], Hiroshi NAGAOKA[1], Mayuko IMAZATO[1], Masayuki NAITO[1], Ryosuke HAYASHIDA[1]
[1]*Waseda University*

16:15
PS14-16-D4-PM2-311-009
PS14-16-A017
Iron and Titanium Distributions on the Surface of the Moon: New Results from KAGUYA Gamma-Ray Spectrometer
Hiroshi NAGAOKA[1#+], Masayuki NAITO[1], Ryosuke HAYASHIDA[1], Nobuyuki HASEBE[1]
[1]Waseda University

16:30
PS14-16-D4-PM2-311-010
PS14-16-A015
Korea Pathfinder Lunar Orbiter: An Overview of Mission and Science Instruments
Eunhyeuk KIM[1#+]
[1]Korea Aerospace Research Institute

16:45
PS14-16-D4-PM2-311-011
PS14-16-A014
Introduction of the Gamma-Ray Spectrometer for the Korea Pathfinder Lunar Orbiter and Current Development Status
Kyeong Ja KIM[1#+], Yire CHOI[1], Junghun PARK[1], Eung Seok YI[1], Sungsoon LEE[1], Young-Kwang YEON[1], Chang Wan SUN[1], K.B LEE[1], Yong-Kwon KIM[2], Kyoung Wook MIN[3], Kyungin KANG[4], Jin Yeon CHO[5], Jeong-Hun CHA[5], Nobuyuki HASEBE[6], Richard ELPHIC[7], Peter ENGLERT[8], Olivier GASNAULT[9], Eido SHIBAMURA[6], Hiroshi NAGAOKA[6], Lucy LIM[10]
[1]Korea Institute of Geoscience and Mineral Resources, [2]Nucare, [3]Korea Advanced Institute of Science and Technology, [4]Satellite Technology Research Center, [5]Inha University, [6]Waseda University, [7]National Aeronautics and Space Administration (NASA), [8]Quest University, [9]Research Institute in Astrophysics and Planetology, [10]NASA Goddard Space Flight Center

17:00
PS14-16-D4-PM2-311-012
PS14-16-A020
Leveraging Measurements from Kaguya and LRO For a Quantitative Approach to Assist in Geologic Mapping of Lunar Central Peaks
Sarah CRITES[1#+], Makiko OHTAKE[1], Paul LUCEY[2], Junichi HARUYAMA[1], Myriam LEMELIN[3]
[1]Japan Aerospace Exploration Agency, [2]University of Hawaii at Manoa, [3]York University

17:15
PS14-16-D4-PM2-311-013
PS14-16-A012
The Moon Viewed in Energetic Neutral Atoms: Review of the Science Learned from SARA/CENA on Board Chandrayaan-1
Audrey VORBURGER[1#+], Peter WURZ[1], Stas BARABASH[2], Martin WIESER[2], Yoshifumi FUTAANA[2], Anil BHARDWAJ[3], M.B. DHANYA[3], Kazushi ASAMURA[4]
[1]University of Bern, [2]Swedish Institute of Space Physics, [3]Vikram Sarabhai Space Centre, [4]Japan Aerospace Exploration Agency

17:30
PS14-16-D4-PM2-311-014
PS14-16-A023
Investigating Thermal Emission from the Lunar Epiregolith
Benjamin GREENHAGEN[1#+], Kerri DONALDSON HANNA[2], Neil BOWLES[2], Paul LUCEY[3], Paul HAYNE[4], David PAIGE[5]
[1]Johns Hopkins University Applied Physics Laboratory, [2]University of Oxford, [3]University of Hawaii at Manoa, [4]California Institute of Technology, [5]University of California, Los Angeles

17:45
PS14-16-D4-PM2-311-015
PS14-16-A024
Scientific Rationale and Potential Targets for Future Lunar Sample Return
Neeraj SRIVASTAVA[1#+], Durga Prasad KARANAM[1], Ramakant MAHAJAN[1], Dwijesh RAY[1], Dipak PANDA[1], Amit Basu SARBADHIKARI[1], Rajiv Ranjan BHARTI[1], Rishitosh Kumar SINHA[1], Vijayan SIVAPRAHASAM[1], S.A. HAIDER[1]
[1]Physical Research Laboratory

PS12-ST23 / Future and Current Space Missions and Instrumentation for Space and Planetary Science

Thu - 10 Aug | MR310

Session Chair(s) Yoshifumi SAITO, *Institute of Space and Astronautical Science / Japan Aerospace Exploration Agency*

11:00
PS12-ST23-D4-AM2-310-001
PS12-ST23-A021
A Novel Spacecraft with an Innovative Payload for Radiation Measurements Between Venus and Mars Orbits
Premkumar SAGANTI[1#+]
[1]Prairie View A&M University

11:15
PS12-ST23-D4-AM2-310-002
Invited
PS12-ST23-A004
Cubesat: Inner Radiation Belt Experiment (CIRBE)
Xinlin LI[1#+]
[1]University of Colorado Boulder

11:35
PS12-ST23-D4-AM2-310-003
Invited
PS12-ST23-A007
Planetary Science Missions and Participations at Nasa
James GREEN[1#+], Doris DAOU[1]
[1]NASA Headquarters

11:55
PS12-ST23-D4-AM2-310-004
PS12-ST23-A011
Aditya Solar Wind & Particle Experiment (ASPEX) Onboard Aditya - L1 Mission
Shiv Kumar GOYAL[1#+], Prashant KUMAR[1], Pranav ADHYARU[1], Arpit PATEL[1], Neeraj Kumar TIWARI[1], Hitesh ADALJA[1], M. SHANMUGAM[1], M. B. DADHANIA[1], Tinkal LADIYA[1], Mithun Neelakandan P. S.[1], S. B. BANERJEE[1], Santosh VADAWALE[1], K. P. SUBRAMANIAN[1], Janardhan PADMANABHAN[1], Dibyendu CHAKRABARTY[1], Aveek SARKAR[1], Bhas BAPAT[2], Arup Kumar HAIT[3], Mamta CHAUHAN[3], Rakesh R. BHAVSAR[3]
[1]Physical Research Laboratory, [2]Indian Institute of Science Education and Research, [3]Space Applications Centre

12:10
PS12-ST23-D4-AM2-310-005
PS12-ST23-A002
The Medium Energy Particle Detector in the Range of 20 - 400 KeV for the Research of Geomagnetic Storm on NEXTSat-1
Yongmyung SEO[1#+], Seyoung YOON[2], Ju WOO[1], Woohyung SEOL[1], Chaean LEE[1], Chanhaeng LEE[1], Jongho SEON[1], Jongdae SOHN[3], Kyoung Wook MIN[4], Kyungin KANG[5], Goohwan SHIN[5], Jangsoo CHAE[5]
[1]Kyung Hee University, [2]Satrec Initiative, [3]Korea Astronomy and Space Science Institute, [4]Korea Advanced Institute of Science and Technology, [5]Satellite Technology Research Center

Session Chair(s) Andrew YAU, *University of Calgary*

14:00
PS12-ST23-D4-PM1-310-006
Invited
PS12-ST23-A012
Emirates Mars Mission: 2020 Hope Probe
Omran SHARAF[1], Sarah AMIRI[1#+], Suhail AL-DHAFRI[1], Maryam AL-SHAMSI[1], Hessa AL-MATROUSHI[1], Pete WITHNELL[2], David A. BRAIN[2], Michael WOLFF[3], Michael SMITH[4], Robert LILLIS[5], Christopher EDWARDS[6], Justin DEIGHAN[2], Michael CHAFFIN[2]
[1]Mohamed bin Rashid Space Centre, [2]University of Colorado Boulder, [3]Space Science Institute, [4]NASA Goddard Space Flight Center, [5]University of California, Berkeley, [6]Northern Arizona University

14:20
PS12-ST23-D4-PM1-310-007
Invited

PS12-ST23-A018
Science and Exploration of Indian Mars Mission: MOM-2
S.A. HAIDER[1#+], Anil BHARDWAJ[1], Durga Prasad KARANAM[1], Chandan KUMAR[1], Sanjeev MISHRA[1], Varun SHEEL[1], Jayesh PABARI[1], Arpit PATEL[1], M. SHANMUGAM[1], Shiv Kumar GOYAL[1]
[1]Physical Research Laboratory

14:40
PS12-ST23-D4-PM1-310-008
Invited

PS12-ST23-A020
Coronagraph on the International Space Station
Kyungsuk CHO[1#+], Su-Chan BONG[1], Sunghwan CHOI[1], Yang HEESU[1], Jihun KIM[1], Ji-Hye BAEK[1], Young-Deuk PARK[1], Steven CLARKE[2], Joseph M. DAVILA[3], Natchimuthuk GOPALSWAMY[2], Yong-Jae MOON[4], Jongchul CHAE[5]
[1]Korea Astronomy and Space Science Institute, [2]National Aeronautics and Space Administration (NASA), [3]NASA Goddard Space Flight Center, [4]Kyung Hee University, [5]Seoul National University

15:00
PS12-ST23-D4-PM1-310-009

PS12-ST23-A017
Instrumentation for Space Coronal Magnetic Field Mission
Haosheng LIN[1#+]
[1]Institute for Astronomy, University of Hawaii

15:15
PS12-ST23-D4-PM1-310-010

PS12-ST23-A014
Alpha Particle X-ray Spectrometer for the Chandrayaan-2 Rover
Arpit PATEL[1#+], M. SHANMUGAM[1], Mithun Neelakandan P. S.[1], Shiv Kumar GOYAL[1], Tinkal LADIYA[1], Hitesh ADALJA[1], Santosh VADAWALE[1]
[1]Physical Research Laboratory

ST02 / Energetic Particle Acceleration and Transport in the Heliosphere

Thu - 10 Aug | MR328

Session Chair(s) Linghua WANG, *Peking University*
Kyoko WATANABE, *National Defense Academy of Japan*

08:30 ST02-A005
ST02-D4-AM1-328-001
Solar Flare Termination Shock and the Fe XXI 1354.08 Line
Gang LI[1#+], Lijia GUO[2]
[1]The University of Alabama in Huntsville, [2]Lockheed Martin

08:45 ST02-A001
ST02-D4-AM1-328-002
Invited
Coronal Mass Ejections in Solar Cycle 24 and Their Contribution to Particle Acceleration
Nat GOPALSWAMY[1#+]
[1]NASA Goddard Space Flight Center

09:00 ST02-A003
ST02-D4-AM1-328-003
Observations of the Coronal Shock Waves and the Production of Solar Energetic Particles
Chuan LI[1#+], Zigong XU[1], Ming-De DING[1]
[1]Nanjing University

09:15 ST02-A017
ST02-D4-AM1-328-004
A Statistical Analysis of the Solar Phenomena Associated with Global EUV Waves
David LONG[1#+], Pearse MURPHY[2], Georgina GRAHAM[1], Eoin CARLEY[2], David PÉREZ-SUÁREZ[1]
[1]University College London, [2]Trinity College Dublin

09:30 ST02-A007
ST02-D4-AM1-328-005
Applications of ENLIL and SEPMOD to the Interpretation of Planetary SEP Event Phenomena
Janet LUHMANN[1#+], M. Leila MAYS[2], Dusan ODSTRCIL[3], Y. LI[1], Hazel BAIN[1], C. LEE[1], Davin LARSON[1], Yoshifumi FUTAANA[4], Christina COHEN[5], Richard MEWALDT[5], Richard LESKE[5]
[1]University of California, Berkeley, [2]Catholic University of America, [3]George Mason University, [4]Swedish Institute of Space Physics, [5]California Institute of Technology

09:45 ST02-A012
ST02-D4-AM1-328-006
Energetic and Suprathermal Particles Variations Over Solar Cycle 24
George HO[1#+], Glenn MASON[1]
[1]Johns Hopkins University Applied Physics Laboratory

10:00 ST02-A015
ST02-D4-AM1-328-007
Case Studies of Superthermal (~0.2 -100 keV) Electrons Near the ICME-Driven Shocks at 1 AU
Liu YANG[1], Linghua WANG[1,2#+], Gang LI[3], Robert WIMMER-SCHWEINGRUBER[4], Jiansen HE[1], Chuanyi TU[1], Jiawei TAO[1]
[1]Peking University, [2]University of California, Berkeley, [3]The University of Alabama in Huntsville, [4]University of Kiel

10:15
ST02-D4-AM1-328-008
ST02-A002
Interplanetary Suprathermal Ion Distributions Throughout the Heliosphere Measured at New Horizons and Cassini
Peter KOLLMANN[1#+], Mathew HILL[1], Ralph MCNUTT[1], George CLARK[1], Robert DECKER[1], Jon VANDEGRIFF[1], Lawrence BROWN[1], Giuseppe ROMEO[1], Martha KUSTERER[1], Steve JASKULEK[1]
[1]Johns Hopkins University Applied Physics Laboratory

Session Chair(s)
Kyoko WATANABE, *National Defense Academy of Japan*
Linghua WANG, *Peking University*

11:00
ST02-D4-AM2-328-009
ST02-A009
Solar Wind Electron Microphysics and Kinetic-Scale Electromagnetic Fluctuations in the Solar Wind at 1 AU
Chadi SALEM[1#+], Marc PULUPA[1]
[1]University of California, Berkeley

11:15
ST02-D4-AM2-328-010
ST02-A018
Local Generation of a Narrow Strahl Component in the Solar Wind Electron Velocity Distribution Functions
Jungjoon SEOUGH[1#+]
[1]Korea Astronomy and Space Science Institute

11:30
ST02-D4-AM2-328-011
ST02-A016
Solar Wind ~0.1-1 keV Electrons in the Corotating Interaction Regions
Jiawei TAO[1#+], Linghua WANG[1,2], Jiansen HE[1], Chuanyi TU[1]
[1]Peking University, [2]University of California, Berkeley

11:45
ST02-D4-AM2-328-012
Invited
ST02-A004
Electron Energization in Magnetic Reconnection
Mitsuo OKA[1#+]
[1]University of California, Berkeley

12:00
ST02-D4-AM2-328-013
Invited
ST02-A011
Prompt Acceleration of Relativistic Electrons Associated with the Interplanetary Pressure Pulse
Yoshizumi MIYOSHI[1#+], Masahiro HAYASHI[1], Shinji SAITO[1], Yosuke MATSUMOTO[2], Takanobu AMANO[3], Kanako SEKI[3]
[1]Nagoya University, [2]Chiba University, [3]The University of Tokyo

12:15
ST02-D4-AM2-328-014
ST02-A013
Study of the Magnetic Field Between the Sun and the Earth by the Sun Shadow in Cosmic Rays with the Tibet Air Shower Array
Masato TAKITA[1#+]
[1]The University of Tokyo

ST10-03-17-19 / General Session on the Magnetosphere

Thu - 10 Aug | MR328

Session Chair(s) George PARKS, *University of California, Berkeley*
Xuzhi ZHOU, *Peking University*

14:00
ST10-03-17-19-D4-PM1-328-001
Invited
ST10-03-17-19-A020
Magnetosphere and Ionosphere Response to Dynamic Pressure Change/Disturbances in the Solar Wind and Foreshock Regions
Quanqi SHI[1#+]
[1]Shandong University

14:15
ST10-03-17-19-D4-PM1-328-002
Invited
ST10-03-17-19-A007
Investigation of the Differences in Onset Times for Hemispherically Conjugate Magnetometers
James WEYGAND[1#+], Eftyhia ZESTA[2], Robert MCPHERRON[1]
[1]University of California, Los Angeles, [2]NASA Goddard Space Flight Center

14:30
ST10-03-17-19-D4-PM1-328-003
ST10-03-17-19-A019
MMS Observations of Hot Flow Anomalies
Hui ZHANG[1#+]
[1]University of Alaska Fairbanks

14:45
ST10-03-17-19-D4-PM1-328-004
ST10-03-17-19-A001
Automatic Selection of DST Storms and Their Seasonal Variations in Two Versions of DST in 50 Years
Nanan BALAN[1#+]
[1]Nagoya University

15:00
ST10-03-17-19-D4-PM1-328-005
ST10-03-17-19-A003
Evolution of a Typical Ion-Scale Magnetic Flux Rope Caused by Thermal Pressure Enhancement
Wai-Leong TEH[1#+], Takuma NAKAMURA[2], Rumi NAKAMURA[2], Wolfgang BAUMJOHANN[2], Chris RUSSELL[3], Craig POLLOCK[4], P.-A LUNDQVIST[5], Robert ERGUN[6], James BURCH[7], Roy B. TORBERT[8], Barbara GILES[9]
[1]Universiti Kebangsaan Malaysia, [2]Austrian Academy of Sciences, [3]University of California, Los Angeles, [4]Denali Scientific, [5]Royal Institute of Technology, [6]University of Colorado, [7]Southwest Research Institute, [8]University of New Hampshire, [9]NASA Goddard Space Flight Center

Session Chair(s) Qiugang ZONG, *Peking University*
Hui ZHANG, *University of Alaska Fairbanks*

16:00
ST10-03-17-19-D4-PM2-328-006
Invited
ST10-03-17-19-A011
Extensive Electron Transport and Energization via Multiple Dipolarizing Flux Bundles
Christine GABRIELSE[1#+], Vassilis ANGELOPOULOS[1], Camilla HARRIS[1], Anton ARTEMYEV[1], E. Larry KEPKO[2], Andrei RUNOV[1]
[1]University of California, Los Angeles, [2]National Aeronautics and Space Administration (NASA)

16:15 ST10-03-17-19-A016
ST10-03-17-19-D4-PM2-328-007
Understanding the Ion Distributions Near the Boundaries of Reconnection Outflow Region
Dongxiao PAN[1#+], Xuzhi ZHOU[1], Vassilis ANGELOPOULOS[2], Andrei RUNOV[2], Qiugang ZONG[1], Zuyin PU[1]
[1]Peking University, [2]University of California, Los Angeles

16:30 ST10-03-17-19-A018
ST10-03-17-19-D4-PM2-328-008
Toward the Unified Model of Substorm
Shinobu MACHIDA[1#+], Kento FUKUI[1], Yukinaga MIYASHITA[1], Akimasa IEDA[1]
[1]Nagoya University

16:45 ST10-03-17-19-A014
ST10-03-17-19-D4-PM2-328-009
Investigation of Bursty Bulk Flows and Their Effects on Global Current Systems
Yiqun YU[1#+], Jinbin CAO[1], Huishan FU[1], Z. H. YAO[2], Haoyu LU[1]
[1]Beihang University, [2]University of Liege

17:00 ST10-03-17-19-A012
ST10-03-17-19-D4-PM2-328-010
Characteristics of High Latitude Precursor Flows Ahead of Dipolarization Fronts
Xuzhi ZHOU[1#+], Jiazheng LI[1], Andrei RUNOV[2], Vassilis ANGELOPOULOS[2], Jiang LIU[2], Dongxiao PAN[1], Qiugang ZONG[1]
[1]Peking University, [2]University of California, Los Angeles

17:15 ST10-03-17-19-A010
ST10-03-17-19-D4-PM2-328-011
Cluster Observation of the Field-Aligned Current at High-Altitude Auroral Region
Ensang LEE[1#+], George PARKS[2], Youra SHIN[1], Jinhy HONG[1]
[1]Kyung Hee University, [2]University of California, Berkeley

17:30 ST10-03-17-19-A021
ST10-03-17-19-D4-PM2-328-012
Determining the Statistical Significance of Particle Precipitation Related to EMIC Waves
Dae-Kyu SHIN[1#+], Dae-Young LEE[1], Sungjun NOH[1], Junga HWANG[2], Jaejin LEE[2]
[1]Chungbuk National University, [2]Korea Astronomy and Space Science Institute

ST12 / Waves and Turbulence in the Solar Atmosphere and Solar Wind

Thu - 10 Aug | MR329

Session Chair(s) Jiansen HE, *Peking University*

14:00 ST12-A018
ST12-D4-PM1-329-001
Invited
Nonlinear Evolution of Torsional Alfven Waves
Valery NAKARIAKOV[1#+]
[1]University of Warwick

14:15 ST12-A008
ST12-D4-PM1-329-002
Invited
Role of Torsional Alfvén Waves as an Energy Source in the Solar Corona
Abhishek Kumar SRIVASTAVA[1#+]
[1]Indian Institute of Technology (BHU)

14:30 ST12-A026
ST12-D4-PM1-329-003
Invited
Kink Wave Cut-Off Frequency Due to Longitudinal Stratification: New Insights
Viktor FEDUN[1#+], Gary VERTH[1], Ben SNOW[1], Frederick GENT[2], Michael RUDERMAN[1], Robertus ERDÉLYI[1], José Juan GONZÁLEZ[3], Francisco GUZMÁN[3]
[1]The University of Sheffield, [2]Aalto University, [3]Universidad Michoacana de San Nicolás de Hidalgo

14:45
ST12-D4-PM1-329-004
ST12-A003
Spectroscopic Observations of Decayless Kink Oscillations in Coronal Loops and Sausage Oscillations in Flare Loops
Hui TIAN[1#+]
[1]*Peking University*

15:00
ST12-D4-PM1-329-005
ST12-A012
Fast Magnetoacoustic Wave Trains in Magnetic Funnels of the Solar Atmosphere
David PASCOE[1#+]
[1]*University of Warwick*

15:15
ST12-D4-PM1-329-006
ST12-A011
Generalized Phase Mixing: Turbulent Behavior of Unidirectionally Propagating Waves
Norbert MAGYAR[1#+], Tom VAN DOORSSELAERE[1], Marcel GOOSSENS[1]
[1]*KU Leuven*

Session Chair(s)
Jiansen HE, *Peking University*
Bo LI, *Shandong University*

16:00
ST12-D4-PM2-329-007
Invited
ST12-A006
A Nearly Incompressible Description of Low-Frequency Turbulence in the Solar Wind
Gary ZANK[1#+], Laxman ADHIKARI[1], Peter HUNANA[1], Roberto BRUNO[2], Daniele TELLONI[2], Daikou SHIOTA[3]
[1]*The University of Alabama in Huntsville,* [2]*National Institute for Astrophysics (INAF),* [3]*Nagoya University*

16:15
ST12-D4-PM2-329-008
Invited
ST12-A007
Observing Turbulence in the Solar Wind: from Fluid to Kinetic Scales
Roberto BRUNO[1#+], Daniele TELLONI[1], Raffaella D'AMICIS[2]
[1]*National Institute for Astrophysics (INAF),* [2]*Serco for ESA*

16:30
ST12-D4-PM2-329-009
Invited
ST12-A013
Alfvénicity In The Slow Solar Wind
Raffaella D'AMICIS[1#+]
[1]*Serco for ESA*

16:45
ST12-D4-PM2-329-010
ST12-A014
Kinetic-Scale Electric and Magnetic Field Fluctuations in the Solar Wind at 1 AU: Themis/Artemis Observations
Chadi SALEM[1#+], Elizabeth HANSON[1], John BONNELL[1], Christopher CHASTON[1,2]
[1]*University of California, Berkeley,* [2]*University of Sydney*

17:00
ST12-D4-PM2-329-011
ST12-A027
The Character of Plasma Turbulence in the Solar Wind with Helium Abundance
Maria RIAZANTSEVA[1#+], Vyacheslav BUDAEV[2], Lyudmila RAKHMANOVA[1], Georgy ZASTENKER[1], Jana SAFRANKOVA[3], Zdenek NEMECEK[3], Lubomir PRECH[3]
[1]*Russian Academy of Sciences,* [2]*National Research Center Kurchatov Institute,* [3]*Charles University in Prague*

17:15 ST12-A024
ST12-D4-PM2-329-012 On the Existence of the Kolmogorov Inertial Range in the Terrestrial Magnetosheath Turbulence
Shiyong HUANG[1#+], Lina Z. HADID[2], Fouad SAHRAOUI[3], Zhigang YUAN[1], Xiaohua DENG[1]
[1]Wuhan University, [2]National Center for Scientific Research/ Ecole Polytechnique/ University Pierre et Marie Curie, [3]Plasma Physics Laboratory

17:30 ST12-A022
ST12-D4-PM2-329-013 On the Parallel and Oblique Firehose Instability in Fluid Models.
Peter HUNANA[1#+], Gary ZANK[1]
[1]The University of Alabama in Huntsville

17:45 ST12-A019
ST12-D4-PM2-329-014 A Self-Consistent Mechanism for Electron Cyclotron Maser Emission with the Alfven Wave and its Application to Type III Solar Radio Bursts
Ling CHEN[1#+], De-Jin WU[1]
[1]Chinese Academy of Sciences

ST18 / ULF, ELF, and VLF Waves and Their Effects on Particles in the Inner Magnetosphere

Thu - 10 Aug | MR329

Session Chair(s) Yuto KATOH, *Tohoku University*
Xin TAO, *University of Science and Technology of China*

08:30 ST18-A010
ST18-D4-AM1-329-001 Invited Plasma Wave Experiment (PWE) on Board the Arase (ERG) Satellite ~Specification and Initial Observation Report
Yoshiya KASAHARA[1#+], Yasumasa KASABA[2], Hirotsugu KOJIMA[3], Satoshi YAGITANI[1], Keigo ISHISAKA[4], Atsushi KUMAMOTO[2], Fuminori TSUCHIYA[2], Tomohiko IMACHI[1], Mitsunori OZAKI[1], Shoya MATSUDA[5], Mamoru OTA[1], Hiroki OKUDA[1], Mitsuru HIKISHIMA[6], Ayako MATSUOKA[6], Kazushi ASAMURA[6], Takeshi TAKASHIMA[6], Yoshizumi MIYOSHI[5], Iku SHINOHARA[6]
[1]Kanazawa University, [2]Tohoku University, [3]Kyoto University, [4]Toyama Prefectural University, [5]Nagoya University, [6]Japan Aerospace Exploration Agency

08:50 ST18-A012
ST18-D4-AM1-329-002 Invited Simulation of VLF Chorus Emissions and Comparison with THEMIS Spacecraft Data
Andrei DEMEKHOV[1#+], Ulrich TAUBENSCHUSS[2], Ondrej SANTOLIK[2,3]
[1]Polar Geophysical Institute, [2]Czech Academy of Sciences, [3]Charles University

09:10 ST18-A007
ST18-D4-AM1-329-003 Invited Wave Heating of the Plasmasphere
Craig KLETZING[1#+], Ivar CHRISTOPHER[1], Ondrej SANTOLIK[2,3], William KURTH[1], George HOSPODARSKY[1], Scott BOUNDS[1]
[1]The University of Iowa, [2]Czech Academy of Sciences, [3]Charles University

09:30 ST18-A011
ST18-D4-AM1-329-004 Whistler and Electrostatic Wave Emissions Correlated with Rapid Variations of Energetic Electron Pitch Angle Distributions
James ROEDER[1#+], David SCHRIVER[2], Nicole ECHTERLING[2], Joseph FENNELL[1]
[1]The Aerospace Corporation, [2]University of California, Los Angeles

09:45
ST18-D4-AM1-329-005
ST18-A013
Nonlinear Effect on Pitch Angle Scattering of Electrons Caused by Whistler Mode Chorus Emissions
Masahiro KITAHARA[1#+], Yuto KATOH[1]
[1]*Tohoku University*

10:00
ST18-D4-AM1-329-006
ST18-A005
Causal Relationship Between Relativistic Electron Acceleration and Microbursts Associated with Scattering by Whistler Chorus Elements
Shinji SAITO[1#+], Yoshizumi MIYOSHI[1], Satoshi KURITA[1]
[1]*Nagoya University*

10:15
ST18-D4-AM1-329-007
ST18-A001
A Statistical Study of Chorus Wave Source Region Size Using Van Allen Probes Data
Shangchun TENG[1+], Xin TAO[1#]
[1]*University of Science and Technology of China*

Session Chair(s)
Lunjin CHEN, *University of Texas at Dallas*
Claudia MARTINEZ-CALDERON, *Tohoku University*

11:00
ST18-D4-AM2-329-008
Invited
ST18-A002
ELF/VLF Conjugate Observations Between the Ground and Van Allen Probes A
Claudia MARTINEZ-CALDERON[1#+], Kazuo SHIOKAWA[2], Yoshizumi MIYOSHI[2], Kunihiro KEIKA[3], Mitsunori OZAKI[4], Ian SCHOFIELD[5], Martin CONNORS[5], Craig KLETZING[6], Miroslav HANZELKA[7], Ondrej SANTOLIK[8,9], William KURTH[6]
[1]*Tohoku University*, [2]*Nagoya University*, [3]*The University of Tokyo*, [4]*Kanazawa University*, [5]*Athabasca University*, [6]*The University of Iowa*, [7]*Institute of Atmospheric Physics*, [8]*Czech Academy of Sciences*, [9]*Charles University*

11:20
ST18-D4-AM2-329-009
Invited
ST18-A009
ULF Poloidal Waves and the Wave-Particle Interaction with Particles: Van Allen Probes and MMS Observations
Lei DAI[1#+]
[1]*Chinese Academy of Sciences*

11:40
ST18-D4-AM2-329-010
ST18-A014
Quantification of Electron Scattering Rate Based on Observed EMIC Wave Fields
Lunjin CHEN[1#+]
[1]*University of Texas at Dallas*

11:55
ST18-D4-AM2-329-011
ST18-A006
Role of Ultra-Low Frequency Plasma Waves in Energizing Particles in Earth's Radiation Belts
Frederick MENK[1#+], Asif SHAH[1], Colin WATERS[1], Murray SCIFFER[1]
[1]*University of Newcastle*

12:10
ST18-D4-AM2-329-012

ST18-A008

Pulsating Proton Aurora and Spiky CNA Associated with Pc1 Waves at Sub-Auroral Latitudes

Tomohiro INOUE[1#+], Mitsunori OZAKI[1], Satoshi YAGITANI[1], Kazuo SHIOKAWA[2], Yoshizumi MIYOSHI[2], Ryuho KATAOKA[3], Yusuke EBIHARA[4], Reiko NOMURA[5], Kaori SAKAGUCHI[6], Yuichi OTSUKA[2], Martin CONNORS[7], Donald DANSKIN[8]

[1]Kanazawa University, [2]Nagoya University, [3]Tokyo Institute of Technology, [4]Kyoto University, [5]Japan Aerospace Exploration Agency, [6]National Institute of Information and Communications Technology, [7]Athabasca University, [8]Natural Resources Canada

SE16 / Dynamic System of Earth: Interactions from Surface to Core

Thu - 10 Aug | MR331

Session Chair(s) Takashi NAKAGAWA, *Japan Agency for Marine-Earth Science and Technology*
Weijia KUANG, *NASA Goddard Space Flight Center*

08:30
SE16-D4-AM1-331-001
Invited
SE16-A019
A Generalized Theory of the Figure of the Earth: Application to the Core-Mantle Boundary and Global Dynamical Flattening
Cheng-Li HUANG[1#+]
[1]Chinese Academy of Sciences

08:45
SE16-D4-AM1-331-002
SE16-A005
Evidence for Strong Core-Mantle Coupling from Long-Wavelength Features of the Topmost Inner Core
Jing JIN[1], Xiaodong SONG[2#+]
[1]University of Illinois at Urbana-Champaign, [2]University of Illinois U-C & Wuhan U

09:00
SE16-D4-AM1-331-003
SE16-A017
Effects of Stably Stratified Layers in Earth's and Planetary Cores on Planetary Dynamos and Magnetic Fields
Weijia KUANG[1#+], Robert TYLER[2]
[1]NASA Goddard Space Flight Center, [2]University of Maryland

09:15
SE16-D4-AM1-331-004
SE16-A004
Effects of Spin State Transition on Long-Term Stability of LLSVPs
Kenny VILELLA[1#+], Yang LI[1], Frederic DESCHAMPS[1]
[1]Academia Sinica

09:30
SE16-D4-AM1-331-005
SE16-A001
High-Pressure Behavior of Carbonate in the Deep Earth: Implication for Melting in the Mantle
Zhu MAO[1#+], Xinyang LI[1], Ningyu SUN[1]
[1]University of Science and Technology of China

09:45
SE16-D4-AM1-331-006
SE16-A006
Development of Earth System Evolution Model in Global-Scale Mantle Convection Simulations
Takashi NAKAGAWA[1#+], Hikaru IWAMORI[1]
[1]Japan Agency for Marine-Earth Science and Technology

10:00
SE16-D4-AM1-331-007
SE16-A011
Subducted Slabs in a Convecting Mantle with Tectonic Plates
Jinshui HUANG[1#+], Bingcheng WU[1]
[1]University of Science and Technology of China

10:15
SE16-D4-AM1-331-008
Invited
SE16-A020
Isotopic Constraints on the Timescale of Earth Accretion and Core Formation
Qing-Zhu YIN[1#+]
[1]University of California, Davis

SS02 / Interdisciplinary Geosciences in Natural Hazards

Thu - 10 Aug | MR331

Session Chair(s) Kazuhisa GOTO, *Tohoku University*
James TERRY, *Zayed University*

16:00
SS02-D4-PM2-331-001
Invited
SS02-A001
Hurricane Track Morphometry in the North Atlantic Ocean
James TERRY[1#+], Ick-Hoi KIM[2]
[1]Zayed University, [2]National University of Singapore

16:20
SS02-D4-PM2-331-002
Invited
SS02-A003
Tropical Cyclone Risk
Doo-Sun R. PARK[1#+], Johnny CHAN[2]
[1]Korea Environment Institute, [2]City University of Hong Kong

16:40
SS02-D4-PM2-331-003
Invited
SS02-A007
Climate Extremes and Global Crop Production
Toshichika IIZUMI[1#+], Toshiyuki NAKAEGAWA[2], Wonsik KIM[3], Motoki NISHIMORI[1]
[1]National Agriculture and Food Research Organization, [2]Japan Meteorological Agency, [3]National Institute for Agro-Environmental Sciences

17:00
SS02-D4-PM2-331-004
Invited
SS02-A004
The Importance of Sea-Level Research
Ben HORTON[1,2#+]
[1]Rutgers University, [2]Nanyang Technological University

17:20
SS02-D4-PM2-331-005
Invited
SS02-A002
Spatio-Temporal Variation of Drought in China During the Past Half Century
Dawen YANG[1#+], Kai XU[1], Yue QIN[1]
[1]Tsinghua University

17:40
SS02-D4-PM2-331-006
Invited
SS02-A005
Environmental Perturbation Caused by a Large Meteorite Impact and its Implications to the K/Pg Mass Extinction
Sohsuke OHNO[1#+]
[1]Chiba Institute of Technology

SS09 / A Dialog with Future Earth

Thu - 10 Aug | MR331

Session Chair(s) Dong-Kyou LEE, *Seoul National University*
Kenji SATAKE, *The University of Tokyo*

14:00
SS09-D4-PM1-331-001
Invited
SS09-A005
Asian Perspectives, Research Priorities, and Capacity Building Focus of Future Earth Activities in Taiwan
Shih-Chun Candice LUNG[1#+]
[1]Academia Sinica

14:20
SS09-D4-PM1-331-002
Invited
SS09-A003
Progress of Future Earth in China
Lei HUANG[1#+]
[1]China Meteorological Administration

14:40 SS09-A006
SS09-D4-PM1-331-003 Key and Important Issues of Future Earth in Asia
Invited
Tetsuzo YASUNARI[1#+]
[1]*Research Institute for Humanity and Nature*

15:00 SS09-A002
SS09-D4-PM1-331-004 Recent Activities in Korea on Future Earth
Invited
Kyung-Ja HA[1#+], Soon-Chang YOON[2], Sang-Wook YEH[3], Jong-Seong KUG[4]
[1]*Pusan National University,* [2]*Seoul National University,* [3]*Hanyang University,* [4]*Pohang University of Science and Technology*

SS11 / The Quasi-biennial Oscillation and Its Role in the Climate System

Thu - 10 Aug | MR330

Session Chair(s) Jack A. KAYE, *National Aeronautics and Space Administration (NASA)*

16:00 SS11-A002
SS11-D4-PM2-330-001 The Representation of the QBO and its Effects in Modern Climate Models
Invited
Scott OSPREY[1#+], James ANSTEY[2], Neal BUTCHART[3], Kevin HAMILTON[4]
[1]*University of Oxford,* [2]*Environment Canada,* [3]*Met Office Hadley Centre,* [4]*University of Hawaii*

16:20 SS11-A004
SS11-D4-PM2-330-002 Quasi-Disruptions of the QBO: Tropical Wave Activity of 1987-88 and 2010-11 Compared to the 2015-16 NH Winter
Invited
Larry COY[1#+], Paul A. NEWMAN[1], Steven PAWSON[1]
[1]*NASA Goddard Space Flight Center*

16:40 SS11-A001
SS11-D4-PM2-330-003 QBO Modulation of the Interannual Variability of the Madden-Julian Oscillation
Invited
Seok-Woo SON[1#+]
[1]*Seoul National University*

17:00 SS11-A005
SS11-D4-PM2-330-004 The 2015-16 Disrupted Quasi-Biennial Oscillation's Impact on Stratospheric Trace Gases
Invited
Paul A. NEWMAN[1#+], Olga TWEEDY[2], Larry COY[1], Natalya KRAMAROVA[1], Leslie LAIT[1], Mijeong PARK[3], Steven PAWSON[1], William RANDEL[3], Susan STRAHAN[1]
[1]*NASA Goddard Space Flight Center,* [2]*Johns Hopkins Univesity,* [3]*National Center for Atmospheric Research*

OS Poster Presentations

Thu - 10 Aug, 14:00 - 15:30 | Summit

OS01-D4-PM1-P-009

OS01-A002

Variability of the Equatorial Zonal Currents in the Indian Ocean During Two Contrasting IOD Events: 2006 and 2010

Putri UTARI[1+], Iskhaq ISKANDAR[1#], Muhammad KHAKIM[1], Dedi SETIABUDIDAYA[1]

[1]Sriwijaya University

OS02-D4-PM1-P-020

OS02-A004

Numerical Simulation and Analysis of Wave in the Southern California Bight

Yuhan CAO[1,2#+], Changming DONG[1,3], Xunqiang YIN[2], Jin WANG[1]

[1]Nanjing University of Information Science & Technology, [2]State Oceanic Administration, [3]University of California, Los Angeles

OS02-D4-PM1-P-021

OS02-A007

Data Analysis of Air-Sea Interaction Between Typhoons and Kuroshio Region in the East China Sea

Yang YU[1#+], Changming DONG[1,2]

[1]Nanjing University of Information Science & Technology, [2]University of California, Los Angeles

OS02-D4-PM1-P-022

OS02-A009

Variation of River Islands in Nanjing Section of Yangtze River from Satellite Remote Sensing Images

Haiyun SHI[1+], Chao GAO[2], Changming DONG[1,3#]

[1]Nanjing University of Information Science & Technology, [2]Anhui Normal University, [3]University of California, Los Angeles

OS02-D4-PM1-P-023

OS02-A010

Generation and Evolution of Mesoscale Eddies in the Kuroshio Extension Region

Wenjin SUN[1#+], Changming DONG[2,3], Ruyun WANG[1], Jin-Lin JI[4]

[1]Hohai University, [2]Nanjing University of Information Science & Technology, [3]University of California, Los Angeles, [4]Xiamen University

OS02-D4-PM1-P-024

OS02-A011

Salinity Budget in the Bay of Bengal

Qingyue WANG[1#+], Changming DONG[1,2], Junde LI[3]

[1]Nanjing University of Information Science & Technology, [2]University of California, Los Angeles, [3]Second Institute of Oceanography

OS02-D4-PM1-P-025

OS02-A014

Oceanic Eddy Characteristics and Generation Mechanisms in the Kuroshio Extension Region

Jin-Lin JI[1+], Changming DONG[2,3#], Biao ZHANG[2], Yu LIU[2], Bin ZOU[4], Gregory P. KING[5], Dake CHEN[6]

[1]Xiamen University, [2]Nanjing University of Information Science & Technology, [3]University of California, Los Angeles, [4]National Satellite Ocean Application Center, [5]Institut de Ciències del Mar (ICM-CSIC), [6]State Oceanic Administration

OS02-D4-PM1-P-026

OS02-A018

The SST Anomaly in the Mozambique Channel

Guoqing HAN[1#+], Changming DONG[1,2], Junde LI[3]

[1]Nanjing University of Information Science & Technology, [2]University of California, Los Angeles, [3]Second Institute of Oceanography

OS02-D4-PM1-P-027

OS02-A019

Submesoscale Turbulence in the South California Bight

Yongchui ZHANG[1#+], Changming DONG[2,3]

[1]Institute of Meteorology and Oceanography, [2]Nanjing University of Information Science & Technology, [3]University of California, Los Angeles

OS02-D4-PM1-P-028

OS02-A021

Eddy Conservation and Passive Tracer Transport of Mesoscale Eddies in South China Sea

Xiayan LIN[1#+], Changming DONG[2,3], Dake CHEN[1]

[1]State Oceanic Administration, [2]Nanjing University of Information Science & Technology, [3]University of California, Los Angeles

OS02-D4-PM1-P-029

OS02-A024

A Simulation of Flow Passing the Deep Water Seamount: The Caiwei Seamount in the Northwest Pacific

Weiyuan DONG[1#+], Changming DONG[1,2], Chunsheng WANG[3], Weiyuan DONG[1]

[1]Nanjing University of Information Science & Technology, [2]University of California, Los Angeles, [3]State Oceanic Administration

OS02-D4-PM1-P-030

OS02-A027

Summer Distribution Characteristics of Suspended Sediment in Jiangsu Coastal Area

Chunhui LI[1#+], Changming DONG[1,2], Xiaoyan FU[3], Qianlu XIAO[3]

[1]Nanjing University of Information Science & Technology, [2]University of California, Los Angeles, [3]Hohai University

OS02-D4-PM1-P-031

OS02-A033

Physical-Biogeochemical Interaction in East China Sea Model Validation and Preliminary Study

Qiong WU[1#+], Xiaochun WANG[1], Yijun HE[1], Zhongxiao CHEN[1], Zhijin LI[2], Hongli LI[1], Fei CHAI[3], Peng XIU[4]

[1]Nanjing University of Information Science & Technology, [2]Jet Propulsion Laboratory, California Institute of Technology, [3]University of Maine, [4]South China Sea Institute of Oceanology

OS02-D4-PM1-P-032

OS02-A034

Numerical Study of the Kuroshio Intrusion into the South China Sea by a Passive Tracer Simulation

Tongya LIU[1#+]

[1]Zhejiang University

OS02-D4-PM1-P-033

OS02-A035

The Simulation of Three-Dimensional Ocean Circulation During Typhoon Passing in the Yellow Sea

Jin-Yong CHOI[1#+]

[1]Korean Institute of Ocean Science and Technology

OS02-D4-PM1-P-034

OS02-A039

Ocean Modelling and Early Warning System for the Gulf of Thailand

Narongrit LUANGDILOK[1#+], Watin THANATHANPHON[1], Piyamarn SISOMPHON[1]

[1]Hydro and Agro Informatics Institute

OS02-D4-PM1-P-035
OS02-A040
Origin of Massive Sargassum Horneri (Turner) C. Agardh Around Jeju Island in 2015 from the Numerical Experiments Using a Particle Tracking
Seung Yong LEE[1#+], Il-Ju MOON[1], Chul Min KO[1]
[1]Jeju National University

OS02-D4-PM1-P-036
OS02-A042
Using Multi-Satellite Data to Validate Primary Productivity Algorithm in the Water Around Taiwan
Kuo-Wei LAN[1#+], Li-Jhih LIAN[1], Sha-Yan CHENG[1]
[1]National Taiwan Ocean University

OS02-D4-PM1-P-037
OS02-A045
The SST–Wind Coupling Pattern in the East China Sea Based on a Regional Coupled Ocean–Atmosphere Model
Haixia SHAN[1#+], Changming DONG[1,2]
[1]Nanjing University of Information Science & Technology, [2]University of California, Los Angeles

OS02-D4-PM1-P-038
OS02-A046
Evaluation of Three Temperature Profiles of a Sublayer Scheme to Simulate SST Diurnal Cycle Based on a Global Ocean General Circulation Model
Xiaodan YANG[1], Zhenya SONG[2#+], Yu-Heng TSENG[3], Fangli QIAO[2], Qi SHU[2]
[1]The First Institute of Oceanography, [2]State Oceanic Administration, [3]National Center for Atmospheric Research

OS02-D4-PM1-P-039
OS02-A047
Mooring Measurement of the Abyssal Circulations in the Western Pacific Ocean
Jianing WANG[1#+], Fan WANG[1]
[1]Chinese Academy of Sciences

OS03-D4-PM1-P-007
OS03-A003
Characterizing Water Properties of Mesoscale Vortex Pairs in the Sea of Japan: Observations from an Underwater Glider
Taku WAGAWA[1#+], Yusuke KAWAGUCHI[2], Yosuke IGETA[3], Naoto HONDA[1], Takeshi OKUNISHI[1]
[1]Japan Fisheries Research and Education Agency, [2]Japan Agency for Marine-Earth Science and Technology, [3]Fisheries Research Agency

OS03-D4-PM1-P-008
OS03-A009
Numerical Study on the Submesoscale Physics in the Upper Ocean
Zhiyou JING[1#+], Shihao LUO[1]
[1]Chinese Academy of Sciences

OS03-D4-PM1-P-009
OS03-A014
Seasonal Variations of Sub-Mesoscale Eddies in the East Tropical Pacific Ocean as Revealed by an Eddy-Resolving OGCM
Shengpeng WANG[1,2+], Chen ZHAOHUI[1,2#], Lixin WU[1], Zhao JING[3]
[1]Ocean University of China, [2]Qingdao National Laboratory for Marine Science and Technology, [3]Texas A&M University

OS03-D4-PM1-P-010
OS03-A015
Enhanced Diapycnal Mixing from Double Diffusion in the Kuroshio Extension
Yongzheng LIU[1#+], Chen ZHAOHUI[1,2], Zhao JING[3], Lixin WU[1]
[1]Ocean University of China, [2]Qingdao National Laboratory for Marine Science and Technology, [3]Texas A&M University

OS03-D4-PM1-P-011
OS03-A016
Seasonality of Submesoscale Turbulence Observed in the Mixed Layer of the Northern South China Sea
Hongyang LIN[1#+], Zhiyu LIU[1], Quanan ZHENG[2], Jianyu HU[1], Zhenyu SUN[1], Jia ZHU[1]
[1]Xiamen University, [2]University of Maryland

OS05-D4-PM1-P-007
OS05-A005
Regional Changes in Arctic Ocean Circulation and its Impact on Sea Ice Variations
Byoung Woong AN[1#+], Hyomee LEE[2], Pilhun CHANG[2], Kiryong KANG[2]
[1]National Institute of Meteorological Sciences, [2]Korea Meteorological Administration

OS05-D4-PM1-P-008
OS05-A007
Sea Ice Edge Detection Using C-band Scatterometer ASCAT
Junghwan LEE[1+], Jun Dong PARK[1], Eun-Ha SOHN[2], Jaedong JANG[1#]
[1]Korea Meteorological Administration, [2]National Meteorological Satellite Center

OS05-D4-PM1-P-009
OS05-A008
The Correlation of Sea Ice Change with Sea Surface Temperature in Bering Sea
Weibo WANG[1#+]
[1]State Oceanic Administration

OS07-D4-PM1-P-008
OS07-A005
Fine Processing and Analysis of Seabed Topographic Features in the Outer Shelf of the North of the East China Sea
Qiuhua TANG[1#+], Xinghua ZHOU[1]
[1]State Oceanic Administration

OS07-D4-PM1-P-009
OS07-A008
Seasonal and Geographical Variations in the Quantified Relationship Between Significant Wave Heights and Microseisms: An Example from Taiwan
Jing-Yi LIN[1#+], Chien-Chih CHEN[1], Yen-Fu CHEN[2]
[1]National Central University, [2]National Taiwan University

OS07-D4-PM1-P-010
OS07-A009
Eddy Induced Nutrient Variability in the Eastern Equatorial Indian Ocean During Boreal Summer
Madhusudan PAUL[1#+], Jayu NARVEKAR[2], Prasanna Kumar S[2], Sandip MUKHOPADHYAY[1]
[1]University of Calcutta, [2]National Institute of Oceanography

OS07-D4-PM1-P-011
OS07-A013
Leveling Device Design Based on a Higher Deceleration Mechanism
Jia-Pu JANG[1#+], Hsu-Kuang CHANG[2], Po-Chi CHEN[1], Chau-Chang WANG[3], Ching-Ren LIN[4], Pei-Ying LIN[1]
[1]Taiwan Ocean Research Institute, [2]National Applied Research Laboratories / Taiwan Ocean Research Institute, [3]National Sun Yat-sen University, [4]Academia Sinica

OS07-D4-PM1-P-012
OS07-A014
The Development of Ocean-Bottom Seismographs in Taiwan
Hsu-Kuang CHANG[1#+], Jia-Pu JANG[2], Po-Chi CHEN[2], Ching-Ren LIN[3], Chau-Chang WANG[4], Ban-Yuan KUO[3], Kwanghee KIM [5], Pei-Ying LIN[2]
[1]National Applied Research Laboratories / Taiwan Ocean Research Institute, [2]Taiwan Ocean Research Institute, [3]Academia Sinica, [4]National Sun Yat-sen University, [5]Pusan National University

OS07-D4-PM1-P-013
OS07-A015
A Real-Time Ground Motion Monitoring System Via Raspberry Pi 3
Po-Chi CHEN[1#+], Jia-Pu JANG[1], Hsu-Kuang CHANG[2], Ching-Ren LIN[3], Chau-Chang WANG[4], Pei-Ying LIN[1]
[1]Taiwan Ocean Research Institute, [2]National Applied Research Laboratories / Taiwan Ocean Research Institute, [3]Academia Sinica, [4]National Sun Yat-sen University

OS07-D4-PM1-P-014
OS07-A018
Inter-Annual Fluctuations of Global Significant Wave Height
Yuchun LIN[1+], Lie-Yauw OEY[1#], Alejandro FÖRSTER[2]
[1]National Central University, [2]Institut Mediterrani d'Estudis Avançats

OS07-D4-PM1-P-015
OS07-A019
A Study of Calibration of Differential Pressure Gauge
Ching-Ren LIN[1#+], Ban-Yuan KUO[1], Kun-Hui CHANG[1], Yi-Wei LIN[1], Jia-Pu JANG[2], Feng-Sheng LIN[1]
[1]Academia Sinica, [2]National Applied Research Laboratories

OS07-D4-PM1-P-016
OS07-A021
Seasonal Variation of Visible and Short Wave Infrared Reflectance Spectrum of Sargassum Samples from Northwest Atlantic Ocean
Jinchun YUAN[1#+], Shevon VALENSKI[1], Lindsay DUBBS[2]
[1]Elizabeth City State University, [2]University of North Carolina at Chapel Hill

OS07-D4-PM1-P-017
OS07-A022
Long Term Variability of Wave Height in East Indian Ocean, South China Sea and Northwest Pacific Ocean Regions
Shaotian LI[1+], Yineng LI[1#], Shiqiu PENG[1]
[1]Chinese Academy of Sciences

OS07-D4-PM1-P-018
OS07-A023
A New Insight Into the Nature of Subduction Zone Earthquakesiin Myanmar
Hla Hla AUNG[1#+]
[1]Myanmar Earthquake Committee

OS07-D4-PM1-P-019
OS07-A027
Japan Sea Opening-Closing History Over the Last 10 Myr Inferred from Nd Isotopes
Yukiko KOZAKA[1#+], Keiji HORIKAWA[1], Yoshihiro ASAHARA[2]
[1]University of Toyama, [2]Nagoya University

OS07-D4-PM1-P-020
OS07-A029
SST Variability in the Bay of Bengal During the Younger Dryas
Champoungam PANMEI[1#+], Divakar NAIDU[1], Mahyar MOHTADI[2]
[1]National Institute of Oceanography, [2]University of Bremen

OS07-D4-PM1-P-021
OS07-A030
Cyclicity in Centennial Scale Reconstructed Paleomonsoon from the Western Bay of Bengal: A Foraminiferal Approach
Thejasino SUOKHRIE[1#+]
[1]National Institute of Oceanography

OS07-D4-PM1-P-022
OS07-A032
Impacts of Indonesian Throughflow on Seasonal Circulation in the Equatorial Indian Ocean
Jing WANG[1#+], Dongliang YUAN[1]
[1]Chinese Academy of Sciences

OS07-D4-PM1-P-023
OS07-A036
Sedimentary Record on the Paleoclimate in the Andaman Sea During the Last 26 Ka
Shengfa LIU[1#+], Xuefa SHI[1], Peng CAO[1], Somkiat KHOKIATTIWONG[2], Narumol KORNKANITNAN[3]
[1]State Oceanic Administration, [2]Phuket Marine Biology Center, [3]Marine and Coastal Resource Research Center

OS08-D4-PM1-P-014
OS08-A007
Variations of Suspended Sediment Concentration at the Changjiang River Plume Front After a Supper Typhoon Event
Yue ZHANG[1#+], Daidu FAN[1], Junbiao TU[1], Jianfeng SU[1], Jun LU[1]
[1]Tongji University

OS08-D4-PM1-P-015
OS08-A009
Suspended Sediment Transport in Xinghua Bay
Jinpeng ZHAO[1#+], Daidu FAN[1], Yue ZHANG[1], Wei LIU[1], Jun LU[1]
[1]Tongji University

OS08-D4-PM1-P-016
OS08-A011
Vegetation Effects on Wave Height and Turbulence Flow
Sha LOU[1+], Ming CHEN[1#], Shuguang LIU[1], Guihui ZHONG[1]
[1]Tongji University

OS08-D4-PM1-P-017
OS08-A015
Estimating Sediment Concentration in Turbidity Currents with Conductivity-Temperature (CT) Sensors
Zhiwen WANG[1+], Chenghao WANG[1], Jingping XU[1#], Xiao WU[1], Jianru LI[2], Roberto GWIAZDA[3], Charles K. PAULL[3], Katherine L. MAIER[4]
[1]Ocean University of China, [2]Tongji University, [3]Monterey Bay Aquarium Research Institute, [4]USGS Pacific Coastal and Marine Science Center

OS08-D4-PM1-P-018
OS08-A018
A Numerical Study of Suspended Sediment Transport Through Bohai Strait
Chenghao WANG[1+], Changwei BIAN[1], Jingping XU[1#], Houjie WANG[1], Zhiwen WANG[1], Haiqin DUAN[1], Xiao WU[1], Baoduo WANG[1]
[1]Ocean University of China

OS08-D4-PM1-P-019
OS08-A019
Rock-Magnetism and Paleomagnetism of the Quaternary Sediment Cores in the South Yellow Sea
Jianxing LIU[1#+], Xuefa SHI[1], Qingsong LIU[2], Xunhua ZHANG[3], Jian LIU[3]
[1]State Oceanic Administration, [2]Chinese Academy of Sciences, [3]Qingdao Institute of Marine Geology

OS10-D4-PM1-P-007
OS10-A005
Inter-Annual Variability of the Surface Salinity Over the SCS Inferred from Satellite Observations
Bijoy THOMPSON[1#+], Pavel TKALICH[1]
[1]National University of Singapore

OS10-D4-PM1-P-008
OS10-A006
Luzon Strait Corals Provide Record of the Pacific Decadal Oscillation and Possible Influence to Monsoon Variability
Riovie RAMOS[1#+], Nathalie GOODKIN[1], Tung-Yung FAN[2], Annette BOLTON[3]
[1]Nanyang Technological University, [2]National Museum of Marine Biology and Aquarium, [3]Institute of Environmental Science and Research

OS10-D4-PM1-P-009

OS10-A009

Subduction of North Pacific Tropical Water and its Equatorward Pathways as Shown by a Simulated Passive Tracer

Shan GAO[1#+], Xunwei NIE[1], Tangdong QU[2]

[1]Chinese Academy of Sciences, [2]University of California

OS11-D4-PM1-P-011

OS11-A006

Monitoring Tabular Icebergs C28a and C28b Calved from Mertz Ice Tongue Using Satellite Remote Sensing Data

Tian LI[1+], Mohammed SHOKR[2], Xiao CHENG[1#], Yan LIU[1], Fang WANG[3], Fengming HUI[1], Jiping LIU[4]

[1]Beijing Normal University, [2]Environment Canada, [3]Remote Sensing Technique Center of Heilongjiang Academy of Agricultural Sciences, [4]Institute of Atmospheric Physics, Chinese Academy of Sciences

OS11-D4-PM1-P-012

OS11-A007

The Suppression of Antarctic Bottom Water Formation by Melting Ice Shelves in Prydz Bay

Guy WILLIAMS[1], Laura HERRAIZ-BORREGUERO[2], Fabien ROQUET[3], Takeshi TAMURA[4], Kay OHSHIMA[5], Yasushi FUKAMACHI[5], Alexander FRASER[1], Libao GAO[6], Hongxia CHEN[6#+], Clive MCMAHON[7], Robert HARCOURT[7], Mark HINDELL[1]

[1]University of Tasmania, [2]University of Copenhagen, [3]Stockholm University, [4]National Institute of Polar Research, [5]Hokkaido University, [6]State Oceanic Administration, [7]Sydney Institute of Marine Science

OS11-D4-PM1-P-013

OS11-A009

Estimation of Annual Sea-Ice Production in the Terra Nova Bay Polynya Using AMSR-E Data

Yifan DING[1+], Xiao CHENG[1#]

[1]Beijing Normal University

OS11-D4-PM1-P-014

OS11-A011

The Evolution and Volcanic Forcing of the Southern Annular Mode During the Past 300 Years

Jiao YANG[1#+], Cunde XIAO[2]

[1]Chinese Academy of Sciences, [2]Beijing Normal University

OS11-D4-PM1-P-015

OS11-A022

Sources and Long-Term Changes of Antarctic Bottom Water in the Prydz Bay Region

Yongming SUN[1#+], Jiuxin SHI[1]

[1]Ocean University of China

OS12-D4-PM1-P-009

OS12-A010

Observed Evidence of the Anomalous South China Sea Western Boundary Current During the Summers of 2010 and 2011

Dongxiao WANG[1#+], Yeqiang SHU[1], Jinglong YAO[1]

[1]South China Sea Institute of Oceanology

OS12-D4-PM1-P-010

OS12-A011

Attribution of the Variability of Typhoon Landfalls in China Coasts to the Pacific Decadal Oscillation and Sea Surface Temperature in the Tropical Indian Ocean-Western Pacific

Lei YANG[1#+], Chunzai WANG[1], Xin WANG[2], Dongxiao WANG[1], Fenghua ZHOU[2]

[1]South China Sea Institute of Oceanology, [2]Chinese Academy of Sciences

OS12-D4-PM1-P-011
OS12-A013
The Coupling Reaction Between Ocean and Atmosphere in Great Whirl of the Northwest Indian Ocean
Changming DONG[1,2+], Sen WANG[1#], Qiong XIA[3], Weijun ZHU[1]
[1]Nanjing University of Information Science & Technology, [2]University of California, Los Angeles, [3]Chinese Academy of Sciences

OS12-D4-PM1-P-012
OS12-A015
Ocean Reanalyses Intercomparison from an ENSO Diagnosis Point of View
King Yeung CHEUNG[1+], Wen ZHOU[1#]
[1]City University of Hong Kong

OS13-D4-PM1-P-012
OS13-A009
Annual and Interannual Thermal Variability and Volume Transports in the Northwest Pacific Ocean and the Tropical Indo-Pacific Ocean
Myeong-Hee HAN[1#+], Sung-Hyun NAM[1], Yang Ki CHO[1]
[1]Seoul National University

OS13-D4-PM1-P-013
OS13-A011
Responses of the East Asian Jet Stream to the North Pacific Subtropical Front in Spring
Leying ZHANG[1#+], Haiming XU[1]
[1]Nanjing University of Information Science & Technology

OS13-D4-PM1-P-014
OS13-A017
Impact of ENSO on Rice Yields in Bihar, India
Netrananda SAHU[1#+], Atul SAINI[1]
[1]University of Delhi

OS14-D4-PM1-P-016
OS14-A002
Swell Generation and Propagation Due to Typhoon Herb (1996)
Kyeong Ok KIM[1#+], Kyung Tae JUNG[1]
[1]Korea Institute of Ocean Science and Technology

OS14-D4-PM1-P-017
OS14-A013
Air-Sea Fluxes for Hurricane Patricia (2015): Comparison with Supertyphoon Haiyan (2013) and Under Different ENSO Conditions
Hsiao-Ching HUANG[1#+], Julien BOUCHAREL[2], I-I LIN[1], Fei-Fei JIN[2,3], Chun-Chi LIEN[1], Iam Fei PUN[1]
[1]National Taiwan University, [2]University of Hawaii, [3]Chinese Meteorological Agency

OS14-D4-PM1-P-018
OS14-A016
The Response of Cyclonic and Anti-Cyclonic Eddies to Typhoon Forcing: Vertical Temperature-Salinity Structure Changes Associated with the Horizontal Motion
Shan Shan LIU[1+], Liang SUN[1#], Yuanjian YANG[2], Qiaoyan WU[3]
[1]University of Science and Technology of China, [2]Anhui Institute of Meteorological Sciences, [3]Second Institute of Oceanography

OS14-D4-PM1-P-019
OS14-A018
Different Effect of Tropical Cyclone Induced SST Cooling in Cyclonic and Anticyclonic Ocean Eddy
Xiaorong HUANG[1+], Guihua WANG[1#]
[1]Fudan University

OS14-D4-PM1-P-020
OS14-A021
Asymmetric Response of Tropical Cyclone Activity in the Western North Pacific to the Preceding Two Types of ENSO Events
Chunxiang LI[1#+], Chunzai WANG[2], Tianbao ZHAO[3]
[1]Institute of Atmospheric Physics, Chinese Academy of Sciences, [2]South China Sea Institute of Oceanology, [3]Chinese Academy of Sciences

OS14-D4-PM1-P-021
OS14-A022
Wave-Current Interaction Off the East Coast of India During the Passage of a Tropical Cyclone
Kumar Ravi PRAKASH[1#+], Vimlesh PANT[1]
[1]Indian Institute of Technology Delhi

OS17-D4-PM1-P-006
OS17-A002
An Atmosphere-Ocean Coupled Model Over the Western Maritime Continent
Bijoy THOMPSON[1#+], Claudio SANCHEZ[2], Xiangming SUN[3], Song GUITING[3], Jerry Liu JIANYU[3], Xiang-Yu HUANG[3], Pavel TKALICH[1]
[1]National University of Singapore, [2]UK Met Office, [3]Centre for Climate Research Singapore

OS18-D4-PM1-P-009
OS18-A003
A High-Resolution Coastal Forecasting System with a 3DVAR Assimilation Optimal for a Semi-Enclosed Estuary
Kenta KUROSAWA[1#+], Yusuke UCHIYAMA[1], Takemasa MIYOSHI[2,3]
[1]Kobe University, [2]RIKEN Advanced Institute for Computational Science, [3]University of Maryland

OS18-D4-PM1-P-010
OS18-A006
Oscar Data Assimilation in an Indian Ocean Circulation Model Using Optimal Statistical Interpolation
Manisha VITHALPURA[1#+], Smitha RATHEESH[2], Sujit BASU[2]
[1]Indus University, [2]Indian Space Research Organisation (ISRO)

OS18-D4-PM1-P-011
OS18-A007
Impact of Oscar Current Assimilation on Sea Level Anomaly in an Indian Ocean Circulation Model
Manisha VITHALPURA[1#+], Smitha RATHEESH[2], Sujit BASU[2]
[1]Indus University, [2]Indian Space Research Organisation (ISRO)

OS18-D4-PM1-P-012
OS18-A009
Accuracy of Satellite Composite and Model Reanalysis Daily SST at the Seas Adjacent to the Korean Peninsular
You-Hyun BAEK[1#+], Il-Ju MOON[1]
[1]Jeju National University

OS18-D4-PM1-P-013
OS18-A010
Accuracy of the KMA Global Ocean Data Assimilation System (NEMO/NEMOVAR) for the Upper-Ocean Simulation Over the Tropical Pacific and Western North Pacific
Eun Byeol KO[1#+], Il-Ju MOON[1], Pilhun CHANG[2]
[1]Jeju National University, [2]Korea Meteorological Administration

OS19-D4-PM1-P-015
OS19-A001
The Distribution Characteristics of Rare Metal Elements (RME) in Surface Sediments from Four Coastal Bays on the Northwestern South China Sea
Shuhong WANG[1#+], Wen YAN[1]
[1]Chinese Academy of Sciences

OS19-D4-PM1-P-016

OS19-A004

A Regional Modeling System of Predicting the Transport of Radionuclides in Coastal Sea Regions

Kyung Tae JUNG[1#+], Igor BROVCHENKO[2], Vladimir MADERICH[2], Kyeong Ok KIM[1], Fangli QIAO[3]

[1]Korea Institute of Ocean Science and Technology, [2]Institute of Mathematical Machine and System Problems, [3]State Oceanic Administration

OS19-D4-PM1-P-017

OS19-A005

The Contrasting Behaviors of CO2 Systems in the East China Sea and the Peter the Great Bay of the Japan/East Sea: Implications for the "River-Dominated Ocean Margin" and "Ocean-Dominated Ocean Margin" Hypothesis

Wen-Chen CHOU[1#+], Pavel TISHCHENKO[2]

[1]National Taiwan Ocean University, [2]V.I. Il'ichev Pacific Oceanological Institute

OS19-D4-PM1-P-018

OS19-A012

Seasonal Variability of Hydrodynamics in Anmok Coastal Waters

Mujong KIM[1#+], Hak Soo LIM[1], Jae-Seol SIM[1], Hee Jun LEE[1]

[1]Korea Institute of Ocean Science & Technology

OS19-D4-PM1-P-019

OS19-A013

Study on the Relationships Between Rip Currents and Longshore Currents Using Camera Monitoring Techniques

Tae Rim KIM[1#+]

[1]Kunsan University

OS19-D4-PM1-P-020

OS19-A021

Relationship Between Tidal Currents, Waves and Suspended Sediment Concentration

Jieping TANG[1#+], Ya Ping WANG[1]

[1]Nanjing University

OS19-D4-PM1-P-021

OS19-A023

The Role of Ocean in the Variation of Atmospheric Carbon Dioxide Concentration

Tongmei SUN[1#+]

[1]Nanjing University of Information Science & Technology

OS19-D4-PM1-P-022

OS19-A025

On the Leeuwin Current System and Its Linkage to Zonal Flows in the South Indian Ocean as Inferred from a Gridded Hydrography

Ryo FURUE[1,2#+], Kévin GUERREIRO[3], Helen PHILLIPS[4], Julian P. MCCREARY[5], Nathaniel BINDOFF[4]

[1]Japan Agency for Marine-Earth Science and Technology, [2]University of Hawaii, [3]Laboratoire d'Etudes en Géophysique et Océanographie Spatiales (LEGOS), [4]University of Tasmania, [5]School of Ocean and Earth Science and Technology (SOEST)

OS21-D4-PM1-P-011

OS21-A003

Predictability Analysis of the Kuroshio Extension State Transition Using the Singular Vector Approach

Qiang WANG[1#+], Youmin TANG[2], Stefano PIERINI[3], Mu MU[1]

[1]Chinese Academy of Sciences, [2]University of Northern British Columbia, [3]Università degli Studi di Napoli "Parthenope"

OS22-D4-PM1-P-011 OS22-A001
Holocene Sea-Level Change and Delta Evolution of the Nakdong Rvier, Korea, Analyzed by Diatom Assemblages
Daekyo CHEONG[1#+], Ara CHO[1]
[1]*Kangwon National University*

OS22-D4-PM1-P-012 OS22-A003
Marine and Fluvial Responses to the Climatic Changes Over the Last 150 Ka: Indications from the Cauvery Delta, Tamilnadu, India
Kartika GOSWAMI[1#+], Anbarasu KUMARESAN[2], Sivakumar KRISHNAN[2], Senthil K. SADASIVAM[2], Manoj Kumar JAISWAL[1]
[1]*Indian Institute of Science Education and Research,* [2]*National College (Autonomous)*

OS22-D4-PM1-P-013 OS22-A004
Testing Microatoll Sea-Level Record Reliability Against Instrumental Records
Jedrzej MAJEWSKI[1#+], Dat PHAM[2], Aron MELTZNER[1], Adam SWITZER[1], Ben HORTON[1,3]
[1]*Nanyang Technological University,* [2]*Viet Nam Institute of Meteorology, Hydrology and Climate Change,* [3]*Rutgers University*

OS22-D4-PM1-P-014 OS22-A008
Geophysical Insights into Recent Storm Histories Using Ground Penetrating Radar at Bay-Bay Spit, Bicol, Central Philippines
Adam SWITZER[1#+], Jeremy PILE[2], Janneli Lea SORIA[1], Fernando SIRINGAN[3], Arturo DAAG[4]
[1]*Nanyang Technological University,* [2]*Bournemouth University,* [3]*University of Philippines,* [4]*Philippine Institute of Volcanology and Seismology*

OS22-D4-PM1-P-015 OS22-A010
Analysis of Overwash Sediments Along the Coasts of Pagadian City, Southern Philippines: Potential Tsunami Deposits of the 1976 Moro Gulf Earthquake?
Sheinna May CLARO[1#+], Noelynna RAMOS[1], Kathrine MAXWELL[1], Daisuke ISHIMURA[2]
[1]*University of the Philippines Diliman,* [2]*Tokyo Metropolitan University*

OS22-D4-PM1-P-016 OS22-A012
High-Precision Sea-Level History at Natuna Island, Indonesia, Over the Past 7000 Years
Xiu Wen, Jeannette WAN[1#+], Aron MELTZNER[1], Adam SWITZER[1], Ben HORTON[1,2], Sarah BRADLEY[3], Danny NATAWIDJAJA[4], Bambang SUWARGADI[4]
[1]*Nanyang Technological University,* [2]*Rutgers University,* [3]*Delft University of Technology,* [4]*Indonesian Institute of Sciences*

OS22-D4-PM1-P-017 OS22-A013
Is There Any Hiatus in Global Mean Sea Level Rise?
Quang Hung LUU[1], Pavel TKALICH[1#+], Qing WU[2], Ge CHEN[2]
[1]*National University of Singapore,* [2]*Ocean University of China*

OS22-D4-PM1-P-018 OS22-A014
Quaternary Stratigraphy of the Kallang River Basin, Singapore
Stephen CHUA[1#+], Adam SWITZER[1]
[1]*Nanyang Technological University*

OS22-D4-PM1-P-019

OS22-A016

Common Era Sea Level Response to Climate Fluctuations

Ane GARCÍA-ARTOLA[1,2#+], Simon ENGELHART[3], Andrew KEMP[4], Daria NIKITINA[5], Niamh CAHILL[6], Donald BARBER[7], Christopher VANE[8], Reide CORBETT[9], Jennifer CLEAR[10], Jessica PILARCZYK[11], Timothy SHAW[1], Jennifer WALKER[1], Ben HORTON[1,2]

[1]Rutgers University, [2]Nanyang Technological University, [3]University of Rhode Island, [4]Tufts University, [5]West Chester University, [6]University of Massachusetts Amherst, [7]Bryn Mawr College, [8]British Geological Survey, [9]East Carolina University, [10]Hope University, [11]University of Southern Mississippi

OS22-D4-PM1-P-020

OS22-A017

A Study of Spatio-Temporal Patterns of Sea Level Across the Coast of India

Midhun PRASAD[1#+], Roshan Karan SRIVASTAV[1]

[1]VIT University

SE Poster Presentations

Thu - 10 Aug, 14:00 - 15:30 | Summit

SE02-D4-PM1-P-008
SE02-A001
Lithosphere 3-D Density Structure Beneath the Qinghai-Tibet Plateau and its Surrounding Areas Derived from Satellite Gravity and Gradients Data
Jian FANG[1#+]
[1]Chinese Academy of Sciences

SE02-D4-PM1-P-009
SE02-A007
Tectonic and Geomorphic Setting of the Pamir Plateau: Insights from the Multi-Segment Rupture of the 2015 Mw 7.2 Darwas-Karakoram Earthquake
Priyamvada NANJUNDIAH[1#+], Sylvain BARBOT[1], Shengji WEI[1], Paul TAPPONNIER[1], Wanpeng FENG[2], Teng WANG[1], Eric LINDSEY[1]
[1]Nanyang Technological University, [2]China Earthquake Administration

SE02-D4-PM1-P-010
SE02-A012
Crustal Structure of Indochina from Analysis of Gravity Anomalies and Seismic Data
Raymond RUSSO[1#+], Victor MOCANU[2]
[1]University of Florida, [2]University of Bucharest

SE04-D4-PM1-P-012
SE04-A001
Paleo-Earthquakes and Historical-Earthquakes on the South Helishan Fault at Latest Active Boundary of the Northeastern of Tibetan Plateau
Wenjun ZHENG[1#+], Qiyun LEI[2], Zhang PEI-ZHEN[2], Yanxiu SHAO[2], Haiyun BI[2], Yuejun WANG[1], Jingxing YU[2], Jinrui LIU[2]
[1]Sun Yat-sen University, [2]China Earthquake Administration

SE04-D4-PM1-P-013
SE04-A003
Reanalysis of the Displacement Distribution of the South Heli Shan Fault Based on High-Resolution Topographic Data and its Implications for Regional Tectonic Geomorphology
Haiyun BI[1#+], Wenjun ZHENG[2], Weipeng GE[1], Jiangyuan ZENG[3], Jingxing YU[1]
[1]China Earthquake Administration, [2]Sun Yat-sen University, [3]Chinese Academy of Sciences

SE04-D4-PM1-P-014
SE04-A004
Cenozoic Tectonic Stress Field Evolution Along the Northeastern Tibetan Plateau: Magnetic Fabric Insights of Sediments
Caicai LIU[1#+], Weitao WANG[1], Zhang PEI-ZHEN[1]
[1]China Earthquake Administration

SE04-D4-PM1-P-015
SE04-A012
Spatio-Temporal Strain Partitioning Across the Longmen Shan Fault Zone in Seismic Cycles: Linking Short- and Long-Term Deformation
Yin LI[1+], Gang LUO[1#]
[1]University of Chinese Academy of Sciences

SE04-D4-PM1-P-016
SE04-A019
Refraction Velocities Reveal the Geometry of the Main Frontal Thrust in Central Nepal
Yixiang LIU[1#+], Judith HUBBARD[1], Anna FOSTER[2], Rafael ALMEIDA[1], Ying Sin LEE[1], Lee LIBERTY[3]
[1]Nanyang Technological University, [2]Université du Québec à Montréal, [3]Boise State University

SE05-D4-PM1-P-007

SE05-A006

Postseismic Deformation Following the 2009 Mw 7.8 Dusky Sound Earthquake from Geodetic Observations and Forward Modelling

Dongju PENG[1#+], Sylvain BARBOT[2], Teng WANG[2], James Daniel Paul MOORE[2], Lujia FENG[2]

[1]Earth Observatory of Singapore, [2]Nanyang Technological University

SE05-D4-PM1-P-008

SE05-A010

Present-Day Crustal Deformation of Eastern Himalayan Syntaxis from GPS Measurements

Shiming LIANG[1#+]

[1]Institute of Geology, China Earthquake Administration

SE05-D4-PM1-P-009

SE05-A013

The 25 November 2016 Akteo, China Mw 6.6 Earthquake Rupture Process from Joint Inversion of Teleseismic P Wave, Insar, Static and High-Rate GPS and its Implications on the Seismic Risk

Gang LIU[1#+]

[1]China Earthquake Administration

SE05-D4-PM1-P-010

SE05-A014

Aquifer Dynamics and its Implication to the Regional Seismicity in Salt Lake Valley, Utah Revealed by SAR Observations

Xie HU[1#+], Zhong LU[1], Sylvain BARBOT[2], Teng WANG[2]

[1]Southern Methodist University, [2]Nanyang Technological University

SE05-D4-PM1-P-011

SE05-A017

To Which Level Did the 2010 M8.8 Maule Earthquake Fill the Pre-Existing Seismic Gap?

Lifeng WANG[1#+]

[1]China Earthquake Administration

SE06-D4-PM1-P-005

SE06-A003

Imaging the Distribution of Transient Viscosity Following the 2016 Mw 7.1 Kumamoto Earthquake

James Daniel Paul MOORE[1#+], Hang YU[1], Chi-Hsien TANG[2], Teng WANG[1], Sylvain BARBOT[1], Dongju PENG[3], Sagar MASUTI[1], Justin DAUWELS[1], Ya-Ju HSU[2], Valere LAMBERT[1], Priyamvada NANJUNDIAH[1], Shengji WEI[1], Eric LINDSEY[1], Lujia FENG[1], Bunichiro SHIBAZAKI[4]

[1]Nanyang Technological University, [2]Academia Sinica, [3]Earth Observatory of Singapore, [4]International Institute of Seismology and Earthquake Engineering

SE06-D4-PM1-P-006

SE06-A004

Quasi-Static Simulation Method of Earthquake Cycles Based on Large-Scale Viscoelastic Finite Element Analyses

Ryoichiro AGATA[1#+], Tsuyoshi ICHIMURA[2], Mamoru HYODO[1], Sylvain BARBOT[3], Takane HORI[1]

[1]Japan Agency for Marine-Earth Science and Technology, [2]The University of Tokyo, [3]Nanyang Technological University

SE06-D4-PM1-P-007

SE06-A007

An Analytical Method for Calculating Load and Earthquake Deformations on a Uniform Maxwell Earth

He TANG[1#+], Wenke SUN[1]

[1]University of Chinese Academy of Sciences

SE09-D4-PM1-P-008

SE09-A009
Earth Rotation Parameters Estimation by Multi-GNSS Observations
Min SONG[1#+], Yunbin YUAN[2], Yanju CHAI[2]
[1]Institude of Geodesy and Geophysics, Chinese Academy of Sciences, [2]Chinese Academy of Sciences

SE10-D4-PM1-P-009

SE10-A001
Seismic Imaging with Dense Array for Unveiling Shallow Magma Chamber Under Active Volcano
Zhiwei LI[1#+], Feng BAO[1], David A. YUEN[2]
[1]Chinese Academy of Sciences, [2]University of Minnesota

SE10-D4-PM1-P-010

SE10-A003
The Magmatic Plumbing System and Pre-Eruptive Conditions for the 1990 Kelud Eruption and its Relation to Seismic and Lake Chemistry Data
Sri Budhi UTAMI[1#+], Fidel COSTA[1], Christina WIDIWIJAYANTI[1], Hanik HUMAIDA[2]
[1]Nanyang Technological University, [2]Geological Agency of Indonesia

SE10-D4-PM1-P-011

SE10-A004
Understanding the Monotonous Life of Open Vent Mafic Volcanoes
Dawn SWEENEY RUTH[1#+], Fidel COSTA[1], Mariton BORNAS[2], Danikko John RIVERA[2]
[1]Nanyang Technological University, [2]Philippine Institute of Volcanology and Seismology

SE10-D4-PM1-P-012

SE10-A005
Fractal Analysis of Mineral and Melt Inclusion Textures Unravels the Presence of Multiple Crystal Populations in Igneous Rocks
Lilu CHENG[1#+], Fidel COSTA[1]
[1]Nanyang Technological University

SE10-D4-PM1-P-013

SE10-A008
From Analogue Modelling to Volcanic Monitoring Network Design
Cheryl TAY[1#+], Fabio MANTA[1], Stephen PANSINO[1], Benoit TAISNE[1]
[1]Nanyang Technological University

SE10-D4-PM1-P-014

SE10-A009
Mining Web-Cameras Archived for Volcano Deformation Signals
Darren TAN[1#+], Fabio MANTA[1], Benoit TAISNE[1]
[1]Nanyang Technological University

SE10-D4-PM1-P-015

SE10-A010
Mining Social Media Feeds for Natural Hazard Early Warning and Mapping
Tracy KOH[1#+], Anna PERTTU[1], Benoit TAISNE[1], Gao CONG[1], Chin JINYAO[1]
[1]Nanyang Technological University

SE10-D4-PM1-P-016

SE10-A011
Using Microlites to Investigate Magma Degassing and Controls on Eruption Styles at Rabaul (Papua New Guinea)
Olivier BERNARD[1#+], Cheryl TAY[1], Ong SU QING, MIRANDA[1], Terence CHUA[1], Caroline BOUVET DE MAISONNEUVE[1]
[1]Nanyang Technological University

SE10-D4-PM1-P-017

SE10-A012

Combining Petrologic and Seismic Studies to Constrain Magma Storage Conditions Beneath Marapi Volcano, West Sumatra, Indonesia

Dini NURFIANI[1#+], Anna FOSTER[2], Xin WANG[1], Hendra GUNAWAN[3], Dannie HIDAYAT[1], Shengji WEI[1], Benoit TAISNE[1], Caroline BOUVET DE MAISONNEUVE[1]

[1]Nanyang Technological University, [2]Université du Québec à Montréal, [3]Center for Volcanology and Geological Hazard Mitigation

SE10-D4-PM1-P-018

SE10-A013

Apatite as a Potential Indicator of Magmatic Carbon Dioxide and Water Concentrations

Weiran LI[1#+], Fidel COSTA[1], Jason HERRIN[1]

[1]Nanyang Technological University

SE10-D4-PM1-P-019

SE10-A014

Differing Magmatic Process Before Caldera-Forming and Small Eruptions at Rabaul, Papua New Guinea

Gareth FABBRO[1#+], Mikhail SINGANG[2], Chris MCKEE[3], Caroline BOUVET DE MAISONNEUVE[1]

[1]Nanyang Technological University, [2]Rabaul Volcano Observatory, [3]Port Moresby Geophysical Observatory

SE10-D4-PM1-P-020

SE10-A016

When Uncertainties Leads to Certainties: Benchmarking Geodetic Inversion Using Analogue Models

Stephen PANSINO[1#+], Benoit TAISNE[1], Fabio MANTA[1]

[1]Nanyang Technological University

SE10-D4-PM1-P-021

SE10-A017

Magma on the Move! Monitoring Magma Migration Using Synthetic Seismic Amplitude Ratio Analysis

Chiou Ting TAN[1#+], Benoit TAISNE[1], Jurgen NEUBERG[2]

[1]Nanyang Technological University, [2]University of Leeds

SE10-D4-PM1-P-022

SE10-A018

Developing Plume Early Warning for Southeast Asia with Infrasound

Anna PERTTU[1#+], Benoit TAISNE[1], Dorianne TAILPIED[1]

[1]Nanyang Technological University

SE10-D4-PM1-P-023

SE10-A019

Assessing the Detection Capabilities of Singapore's Infrasound System

Pei Shan ANG[1#+], Anna PERTTU[1], Benoit TAISNE[1]

[1]Nanyang Technological University

SE10-D4-PM1-P-024

SE10-A020

From Qualitative to Quantitative Stress Field Characterisation in Analogue Modelling

Shu Hui YEO[1#+], Stephen PANSINO[1], Benoit TAISNE[1]

[1]Nanyang Technological University

SE10-D4-PM1-P-025

SE10-A023

WOVOdat-Learn: Online Machine Learning Plugin for WOVOdat

Erickson FAJICULAY[1#+], Nang Tin Zar WIN[1], Christina WIDIWIJAYANTI[1], Fidel COSTA[1]

[1]Nanyang Technological University

SE10-D4-PM1-P-026 SE10-A027
Linking Surface Deformation and Degassing Activity: Constraints from Analogue Experiments
Fabio MANTA[1#+], Stephen PANSINO[1], Benoit TAISNE[1]
[1]Nanyang Technological University

SE11-D4-PM1-P-004 SE11-A001
Analysis of Geochemistry Genesis of Anomaly Phenomenon of Wells in Taikang County, Henan Province
Jun ZHONG[1+], Zhihua ZHOU[1#], Xiujun XIA[2], Bo WANG[1]
[1]China Earthquake Networks Center, [2]Henan Earthquake Administration

SE12-D4-PM1-P-008 SE12-A007
Study on the Change of Local Lithospheric Magnetic Field in Hutubi Gas Storage
Zhendong WANG[1#+]
[1]China Earthquake Administration

SE12-D4-PM1-P-009 SE12-A009
Using Large Scale Active Fault Data Building Receive Fault Model in Coulomb Stress Calculation
Qi YAO[1#+], Jia CHENG[2], Xiwei XU[2]
[1]Chinese Earthquake Networks Center, [2]China Earthquake Administration

SE12-D4-PM1-P-010 SE12-A010
Fault Locking Depth, Block Rotation Rates and Crustal Internal Permanent Deformation of the Fen-Wei Rift Zones
Zhangjun LI[1+], Jinwei REN[1#], Weijun GAN[1]
[1]China Earthquake Administration

SE12-D4-PM1-P-011 SE12-A012
Detection of Preparation Process of M~9 Earthquake Using Crustal Deformation Due to M~7 Earthquake and its Afterslip Near the Hypocenter of M~9 Earthquake
Ryoko NAKATA[1#+], Mamoru HYODO[1], Takane HORI[1]
[1]Japan Agency for Marine-Earth Science and Technology

SE12-D4-PM1-P-012 SE12-A015
Lithospheric Magnetic Field and Geological Structure in North China
Jiehao YUAN[1#+]
[1]China Earthquake Administration

SE13-D4-PM1-P-014 SE13-A004
Tectonic Evolution of the Conjugated South China Sea Margins
Shiguo WU[1#+], Jinwei GAO[1]
[1]Chinese Academy of Sciences

SE13-D4-PM1-P-015 SE13-A007
Preliminary Study on Pd-Ni-Co Mineralogy in the Grasberg Deposit, Indonesia: Implications for Mafic Magma Contribution to Porphyry Cu-Au Mineralization
Katsuhito TERASHIMA[1#+], Kotaro YONEZU[1], Thomas TINDELL[1], Mega Fatimah ROSANA[2], Benny BENSAMAN[3]
[1]Kyushu University, [2]Padjadjaran University, [3]PT. Eksplorasi Nusa Jaya Freeport Indonesia

SE13-D4-PM1-P-016
SE13-A008
Lithological Control on Occurrences of Deformation Band in Pyroclastic Rocks of Eastern Taiwan
Chih Cheng CHUNG[1#+], Chia-Yu LU[1]
[1]*National Taiwan University*

SE13-D4-PM1-P-017
SE13-A016
Evaluating Scandium and REEs Concentrations in Nickeliferous Laterites of Palawan Mines Using Geochemical Analyses
Paul Irah ABELLA[1#+], Carlo ARCILLA[1], Jeremy James JIMENEZ[1], Rio Jasper RUELO[1], Nancy AGUDA[1]
[1]*University of the Philippines Diliman*

SE13-D4-PM1-P-018
SE13-A020
A Quick Look to the Differentiation Status of A- Type Granites Occurring in Parts of Karbi Hills Massif: Evidence from REE Profile and Accessory Mineralogy
Dilip MAJUMDAR[1#+], Abhijit GOGOI[1], Pankhi DUTTA[1]
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SE14-D4-PM1-P-008
SE14-A001
Delineation of Karst Cavities Under Railway Construction Site by the Microgravity Survey
Hyoungrea RIM[1#+], Gyesoon PARK[1], Changryol KIM[1]
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SE15-D4-PM1-P-007
SE15-A004
Airborne Gravity Measurement in Eastern Kalimantan for Precise Geoid in Kalimantan, Indonesia
Dyah PANGASTUTI[1#+], Arisauna Maulidyan PAHLEVI[1], Bagas TRIARAHMADHANA[1], Erfan Dany VARIANDY[1], Prayudha HARTANTO[1], Safirotul HUDA[1], Adolfientje KASENDA[1], Widy PUTRA[1], Hsuan-Chang SHIH[2], Cheinway HWANG[3]
[1]*Badan Informasi Geospasial,* [2]*National Taipei university,* [3]*National Chiao Tung University*

SE15-D4-PM1-P-008
SE15-A006
Establishment of the Fault Slip Model for Large Historical Earthquake and its Influence on Co-Seismic Calculations: An Example of the Ms 8.5 Haiyuan Earthquakes in 1920 as an Example
Yuanhao DENG[1], Huihong CHENG[1+], Yaolin SHI[1#], Huai ZHANG[1]
[1]*University of Chinese Academy of Sciences*

SE15-D4-PM1-P-009
SE15-A008
The Computation of Airborne Gravity Data to Determine a Precise Local Geoid of Sulawesi Island Indonesia
Bagas TRIARAHMADHANA[1#+], Erfan Dany VARIANDY[1], Dyah PANGASTUTI[1], Arisauna Maulidyan PAHLEVI[1], Prayudha HARTANTO[1], Safirotul HUDA[1], Widy PUTRA[1]
[1]*Badan Informasi Geospasial*

SE15-D4-PM1-P-010
SE15-A009
Retrieving Volcanic Gravity Signals from Hydrologically Disturbed Gravity Data Observed at Asama and Sakurajima Volcanoes
Takahito KAZAMA[1#+]
[1]*Kyoto University*

SE15-D4-PM1-P-011 SE15-A012
Absolute Gravity Change and the Mass Redistribution Result Due to an Eruption on April 28, 2016 of the Wandan Mud Volcano in Taiwan
Kai-Chien CHENG[1#+], Ling-Ho CHUNG[1], Ricky KAO[2], Yuan-Hsi LEE[1]
[1]National Chung Cheng University, [2]University of Calgary

SE16-D4-PM1-P-009 SE16-A003
Penetration of Compositional Convection into the Upper Thermally Stable Layer in the Earth's Outer Core
Shin-Ichi TAKEHIRO[1#+], Youhei SASAKI[1]
[1]Kyoto University

SE16-D4-PM1-P-010 SE16-A007
Core-Mantle Boundary Dynamic Topography as a Constraint on Lowermost Mantle Structure
Frederic DESCHAMPS[1#], Yves ROGISTER[2], Paul TACKLEY[3+]
[1]Academia Sinica, [2]Université de Strasbourg, [3]ETH Zurich

SE16-D4-PM1-P-011 SE16-A008
Slow Cycling of Slab Remnants by Mantle Convection Below Continental Convergence Zones
Gary JARVIS[1#+]
[1]York University

SE16-D4-PM1-P-012 SE16-A009
Modelling the Thermo-Chemical Evolution of the Mantle from a Molten State to the Present Day
Paul TACKLEY[1#+], Diogo LOURENCO[1]
[1]ETH Zurich

SE16-D4-PM1-P-013 SE16-A012
Mantle Wedge Serpentinization Effects on Slab Dips
Eh TAN[1#+]
[1]Academia Sinica

SE16-D4-PM1-P-014 SE16-A013
Imaging the High-Resolution Crust Structure in the Southern Segment of Tan-Lu Fault Using Large Volume Airgun
Baoshan WANG[1#+], Yunpeng ZHANG[1], Weitao WANG[1], Yihe XU[1]
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SE16-D4-PM1-P-015 SE16-A014
Radial Profiles of Shear Velocity and Attenuation of the Lowermost Mantle Beneath the Western Pacific and Preliminary Approach for 3D Structure
Kensuke KONISHI[1#+], Nobuaki FUJI[2], Frederic DESCHAMPS[1]
[1]Academia Sinica, [2]Institut de Physique du Globe de Paris

SE16-D4-PM1-P-016 SE16-A015
Multi-Pathing of ScS and the ULVZ's at the Northeastern Edge of the Mid-Pacific LLSVP
Daoyuan SUN[1#+], Don HELMBERGER[2]
[1]University of Science and Technology of China, [2]California Institute of Technology

SE16-D4-PM1-P-017 SE16-A016
Constraints on Anisotropic Velocity Structure of the Lithosphere-Asthenosphere System in the Central Pacific from the NoMelt OBS Array
Pei-Ying LIN[1#+], James GAHERTY[2], Joshua RUSSELL[2], Shu-Huei HUNG[3], Ge JIN[2], John A. COLLINS[4], Daniel LIZARRALDE[4], Rob EVANS[4], Greg HIRTH[5]
[1]Taiwan Ocean Research Institute, [2]Lamont-Doherty Earth Observatory of Columbia University, [3]National Taiwan University, [4]Woods Hole Oceanographic Institution, [5]Brown University

SE16-D4-PM1-P-018 SE16-A018
Lithospheric Radial Anisotropy Beneath the Gulf of Mexico
Risheng CHU[1#+], Justin KO[2], Shengji WEI[3], Zhongwen ZHAN[2], Don HELMBERGER[2]
[1]Chinese Academy of Sciences, [2]California Institute of Technology, [3]Nanyang Technological University

SE19-D4-PM1-P-005 SE19-A002
Numerical Modeling of Deformation Modes of Overriding Plate in Ocean-Continent Subduction
Yanan SHI[1#+], Dongping WEI[1]
[1]University of Chinese Academy of Sciences

SE19-D4-PM1-P-006 SE19-A008
Seafloor Geodetic Survey Off the Coast of Ilan and Hualien in Taiwan
Horng-Yue CHEN[1#+], Masataka ANDO[2], Cheng-Horng LIN[1]
[1]Academia Sinica, [2]Shizuoka University

SE19-D4-PM1-P-007 SE19-A010
Determination of Moho Depths in N Luzon and NW Mindoro Using Teleseismic Receiver Functions
Heng-Yi SU[1#+], Po-Fei CHEN[1], Erlington OLAVERE[2], Bartolome BAUTISTA[2], Renato SOLIDUM[2], Bor-Shouh HUANG[3]
[1]National Central University, [2]Philippine Institute of Volcanology and Seismology, [3]Academia Sinica

SE19-D4-PM1-P-008 SE19-A013
Using Relative Arrival Times of Teleseismic S Waves to Investigate the Upper Mantle Structures Beneath NW Mindoro
Li-Fan CHEN[1#+], Po-Fei CHEN[1], Erlington OLAVERE[2], Bartolome BAUTISTA[2], Renato SOLIDUM[2], Bor-Shouh HUANG[3]
[1]National Central University, [2]Philippine Institute of Volcanology and Seismology, [3]Academia Sinica

SE20-D4-PM1-P-006 SE20-A002
High-Resolution, Multiproxy Palaeoenvironmental Changes Recorded from Two Mile Lake, Southern Western Australia: Implications for Ramsar-Listed Playa Sites
Christos GOURAMANIS[1#+], Patrick DE DECKKER[2], Daniel WILKINS[3], John DODSON[4]
[1]National University of Singapore, [2]Australian National University, [3]Australian Antarctic Division, [4]Chinese Academy of Sciences

SE20-D4-PM1-P-007

SE20-A003

Understanding the Eruptive History of Sumatran Volcanoes Through Tephrostratigraphy

Marcus PHUA[1#+], Sean PYNE-O'DONNELL[1], Caroline BOUVET DE MAISONNEUVE[1], Hamdi RIFAI[2], Rina ZURAIDA[3], Nugroho D. HANANTO[4], Satish SINGH[1,5]

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SE20-D4-PM1-P-008

SE20-A005

Preliminary Results from an ICDP Pre-Site Seismic Survey on Nam Co for Late Quaternary Paleoclimatic Studies on the Tibetan Plateau

Nora SCHULZE[1#+], Volkhard SPIESS[1], Fenna BERGMANN[1], Julia HABERKERN[1], Gerhard DAUT[2], Junbo WANG[3], Torsten HABERZETTL[2], Liping ZHU[3]

[1]University of Bremen, [2]University of Jena, [3]Chinese Academy of Sciences

SE20-D4-PM1-P-009

SE20-A008

Lake and Peatland Palaeoclimate Reconstruction of Sumatra

Sean PYNE-O'DONNELL[1#+], Marcus PHUA[1], Hamdi RIFAI[2], Caroline BOUVET DE MAISONNEUVE[1]

[1]Nanyang Technological University, [2]Universitas Negeri Padang

SE20-D4-PM1-P-010

SE20-A011

Expressing the Eruptive History of Sumatran Volcanoes Through Magnetic Properties

Hamdi RIFAI[1#+], Marcus PHUA[2], Sean PYNE-O'DONNELL[2], Wahyoe HANTORO[3], Caroline BOUVET DE MAISONNEUVE[2]

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SE21-D4-PM1-P-020

SE21-A002

Seismo-Tectonics and Seismic Potential of the Liupanshan Fault Zone, China

Fang DU[1#+], Xueze WEN[1], Jiangang FENG[2], Long FENG[1], Mingjian LIANG[1], Jiang WU[1]

[1]Earthquake Administration of Sichuan Province, [2]Earthquake Administration of Gansu Province

SE21-D4-PM1-P-021

SE21-A003

Tectonic Activity, Seismicity and GPS Deformation Along the Yunnan, China, Segment of the Red River Fault Zone (RRFZ)

Xueze WEN[1#+], Shengli MA[2], Fang DU[1], Lifeng WANG[2], Mingjian LIANG[1], Long FENG[1]

[1]Earthquake Administration of Sichuan Province, [2]China Earthquake Administration

SE21-D4-PM1-P-022

SE21-A007

An MW-Based Historical Earthquake Catalog for Mainland China

Jia CHENG[1], Yufang RONG[2#+], Harold MAGISTRALE[2], Guihua CHEN[1], Xiwei XU[1]

[1]China Earthquake Administration, [2]FM Global

SE21-D4-PM1-P-023

SE21-A013

Tectonic Geomorphology Along the Sagaing Fault Between Nay Pyi Taw and Myo Chaung, Myanmar

Soe MIN[1#+], Saw Ngwe KHAING[2,3], Lin Thu AUNG[4,5], Soe Thura TUN[3], Yu WANG[4]

[1]Taungoo University, [2]Hinthada University, [3]Myanmar Earthquake Committee, [4]Nanyang Technological University, [5]Myanmar Geosciences Society

SE21-D4-PM1-P-024

SE21-A017

Structural Deformations Along the Active Sagaing Fault Zone Between Sagaing and Mingun Area, Central Myanmar

Kaung SITHU[1#+], Saw Ngwe KHAING[2,3]

[1]Pathein University, [2]Hinthada University, [3]Myanmar Earthquake Committee

SE21-D4-PM1-P-025

SE21-A022

The Fault Slip Distribution of Zaduo Earthquake Revealed by Sentinel-1A Insar Data

Chen WEI[1#+]

[1]China Earthquake Administration

SE21-D4-PM1-P-026

SE21-A024

Seismicity Around the Hutubi Underground Gas Storage

Baoshan WANG[1#+], Bo ZHANG[1], Zhanbo JI[1], Jinxin HOU[1], Lu LI[1]

[1]China Earthquake Administration

SE21-D4-PM1-P-027

SE21-A025

The Numerical Simulation Study of the Earthquake Cycle on the Longmen Shan Fault

Wei TAO[1#+], Zheng-Kang SHEN[2]

[1]China Earthquake Administration, [2]University of California, Los Angeles

SE21-D4-PM1-P-028

SE21-A026

Active Tectonics Revealed by River Profiles Along the Puqu Fault

Ping LU[1+], Yu SHANG[2#]

[1]Tongji University, [2]Shanghai University

SE21-D4-PM1-P-029

SE21-A027

Structural Observation of the Input Materials at the Sumatra Seismogenic Zone: Preliminary Results from International Ocean Discovery Program Expedition 362

Mari HAMAHASHI[1#+], Abby KENIGSBERG[2], Yehua SHAN[3], Paola VANNUCCHI[4], Peter VROLIJK[5], Lisa MCNEILL[6], Brandon DUGAN[7], Katerina PETRONOTIS[8], Jan BACKMAN[9], Sylvain BOURLANGE[10], Farid CHEMALE[11], Wen-Huang CHEN[3], Tobias COLSON[12], Marina FREDERIK[13], Gilles GUERRIN[14], Timothy HENSTOCK[6], Brian HOUSE[15], Andre HUEPERS[16], Tamara JEPPSON[17], Sarah KACHOVICH[18], Mebae KURANAGA[19], Steffen KUTTEROLF[20], Kitty MILLIKEN[21], Freya MITCHISON[22], Hideki MUKOYOSHI[23], Nisha NAIR[24], Satoko OWARI[25], Kevin PICKERING[26], Hugo POUDEROUX[27], Insun SONG[28], Marta TORRES[29], Tao YANG[30], Xixi ZHAO[31,32]

[1]Nanyang Technological University, [2]Pennsylvania State University, [3]Chinese Academy of Sciences, [4]University of London, [5]New Mexico Tech, [6]University of Southampton, [7]Colorado School of Mines, [8]Texas A&M University, [9]Stockholm University, [10]CNRS-Université de Lorraine, [11]Universidade do Vale do Rio dos Sinos, [12]University of Western Australia, [13]Center for Regional Resources Development Technology (PTPSW-TPSA), [14]Lamont-Doherty Earth Observatory of Columbia University, [15]University of California, San Diego, [16]University of Bremen, [17]University of Wisconsin-Madison, [18]The University of Queensland, [19]Yamaguchi University, [20]GEOMAR Helmholtz Centre for Ocean Research, [21]Bureau of Economic Geology, [22]Cardiff University, [23]Shimane University, [24]Ministry of Earth Sciences, [25]Chiba University, [26]University College London, [27]University de Rennes I, [28]Korea Institute of Geoscience & Mineral (KIGAM), [29]Oregon State University, [30]China University of Geosciences, [31]University of California Santa Cruz, [32]Tongji University

SE21-D4-PM1-P-030 SE21-A029
Offshore Active Faults Mapping in Lamon Bay, Quezon Province, Philippines Using Acoustic Marine Profiling
Bryan MARFITO[1#+], Deo LLAMAS[1], Emmanuelle MITIAM[1], Winchelle SEVILLA[1], Renato SOLIDUM[1], Takashi NAKATA[2]
[1]Philippine Institute of Volcanology and Seismology, [2]Hiroshima University

SE21-D4-PM1-P-031 SE21-A031
The Surface Rupture and Earthquake Disaster in Wenchuan
Yi DU[1#+]
[1]China Earthquake Administration

SE21-D4-PM1-P-032 SE21-A032
Using GPS to Study the Characteristics of Present-Day Tectonic Movement and Geodynamic Implication of the Red River Fault and its Adjacent Areas
Zhaosheng NIE[1#+]
[1]China Earthquake Administration

SE21-D4-PM1-P-033 SE21-A036
Relative Tectonic Activity of Northern Bohol Island, Philippines: Constraints from Geomorphic Indices
Keanu Jershon SARMIENTO[1#+], Noelynna RAMOS[1]
[1]University of the Philippines Diliman

SE21-D4-PM1-P-034 SE21-A039
3D Fault Geometries in the Nankai Trough, Japan
Shiyuan FANG[1#+], Judith HUBBARD[1], Gregory MOORE[2]
[1]Nanyang Technological University, [2]University of Hawaii at Manoa

SE21-D4-PM1-P-035 SE21-A040
The Buried Active Faults Revealed by the Double-Difference Tomography and Focal Mechanisms in the Coastal Region of Southeastern China
Ailan ZHU[1#+], Ye REN[1], Peng WANG[1], Fei LIU[1]
[1]Earthquake Administration of Shanghai Municipality

SE21-D4-PM1-P-036 SE21-A044
Application of Match and Locate Method on Broadband Array to Detect Small Earthquakes in Yilan Plain
Yi-De PENG[1#+], Po-Fei CHEN[1], Po-Li SU[1]
[1]National Central University

SE21-D4-PM1-P-037 SE21-A045
Analysis of the 2016 Aceh MW 6.5 Strike-Slip Earthquake Using Joint Inversion of Insar and Teleseismic Data
Rino SALMAN[1#+], Emma HILL[1], Shengji WEI[1], Lujia FENG[1], Eric LINDSEY[1], Teng WANG[1], Kyle BRADLEY[1], Muzli MUZLI[1,2]
[1]Nanyang Technological University, [2]Meteorological Climatological and Geophysical Agency of Indonesia

SE22-D4-PM1-P-008 SE22-A003
Palaeoenvironment of an Intertrappean Locality, Central India (Manawar, Madhya Pradesh): Inferences from Microfossil and Stable Isotope Data
Vivesh V. KAPUR[1#+], Shailesh AGRAWAL[1], Jyotsana RAI[1]
[1]Birbal Sahni Institute of Palaeosciences

SE25-D4-PM1-P-016 SE25-A001
Subduction-Related 200 Ma Talun Metagranite, Se Taiwan: An Age Constraint for Paleo-Pacific Plate Subduction Beneath South China Block During Mesozoic
Tzen-Fu YUI[1#+], H.T. CHU[2], K. SUGA[1], Ching-Yomg LAN[1], San-Hsiung CHUNG[2], K.L. WANG[1], M. GROVE[3]
[1]Academia Sinica, [2]Central Geological Survey, [3]Stanford University

SE25-D4-PM1-P-018 SE25-A006
Seismic Imaging of Crustal and Uppermost Mantle Structure and Deformation in Eastern China
Hongyi LI[1#+], Longbin OUYANG[1], Xiaoyu YANG[1], Yangfan DENG[2], Jiapeng LI[1], Xinfu LI[1]
[1]China University of Geosciences, [2]Chinese Academy of Sciences

SE25-D4-PM1-P-019 SE25-A010
Shallow Velocity Structure Inversion from Microtremor H/V Spectral Ratio Base on Diffuse Field Assumption in the Western Plain of Taiwan
Chun-Te CHEN[1#+]
[1]Academia Sinica

SE25-D4-PM1-P-020 SE25-A017
Origin of the High Strain Rate of the Northeastern Part of Niigata- Kobe Tectonic Zone Inferred from the Spatial Variation in Coda Q
Masanobu DOJO[1#+], Yoshihiro HIRAMATSU[1]
[1]Kanazawa University

SE25-D4-PM1-P-021 SE25-A018
Three-Dimensional Velocity Model of Crustal Structure in the Southern Korean Peninsula and its Full-Waveform Validations
Junkee RHIE[1#+]
[1]Seoul National University

SE25-D4-PM1-P-022 SE25-A021
Spatial Distribution of Ice Tremor Recorded at Syowa Station in Antarctica
Yuya TANAKA[1#+], Yoshihiro HIRAMATSU[1], Yoshiaki ISHIHARA[2], Masaki KANAO[3]
[1]Kanazawa University, [2]Japan Aerospace Exploration Agency, [3]National Institute of Polar Research

SE25-D4-PM1-P-023 SE25-A022
Full Gravity Gradient Tensor Inversion in Spherical Coordinate System
Yi ZHANG[1#+], Hui LI[2], Yulong WU[3], Xinlin ZHANG[3], Jianguo YAN[4], Guiju WU[3], Jiapei WANG[3]
[1]Institute of Seismology, China Earthquake Administration, [2]Institute of Seismology, China Earthquake Administration, [3]China Earthquake Administration, [4]Wuhan University

SE25-D4-PM1-P-024 SE25-A025
Electronic Geological and Geophysical Atlas of the Sikhote-Alin Orogenic Belt and Adjacent Areas
Alexei DIDENKO[1], Gulshat GILMANOVA[1#+], Vladimir ZABRODIN[1], Oleg RYBAS[1], Tanya MERCULOVA[1], Mihkail NOSYREV[1], Boris SHEVCHENKO[1]
[1]Far Eastern Branch of Russian Academy of Sciences

SE25-D4-PM1-P-025 SE25-A026
Structural Change of the Frustule of Diatom by Thermal Treatment
Akane ARASUNA[1#+]
[1]Kanazawa University

SE25-D4-PM1-P-026

SE25-A028
Ash Mass Discharge Rate from Ibu Volcano, Maluku, East Indonesia
Philipson BANI[1#+]
[1]*CVGHM / IRD*

SE25-D4-PM1-P-027

SE25-A029
Lithospheric Structure of the Subducting Izu-Bonin-Mariana Arc Beneath Japan Inferred from Inversions of Receiver Function and Surface Wave Dispersion
Sawako KINOSHITA[1#+], Kiwamu NISHIDA[2], Toshihiro IGARASHI[2], Yosuke AOKI[2], Minoru TAKEO[2]
[1]*National Institute of Advanced Industrial Science and Technology,* [2]*The University of Tokyo*

SE25-D4-PM1-P-028

SE25-A030
Paleoenvironmental Reconstruction of the Isugod Formation and Alfonso XIII Formation, Palawan, Philippines: Microfacies Analysis and Sandstone Provenance
Alexandria TANCIONGCO[1#+], Regina Martha LUMONGSOD[2], Raul Benjamin MENDOZA[2], Ana Lorena ABILA[2], Jose Dominick GUBALLA[2], Carlo ARCILLA[1]
[1]*University of the Philippines Diliman,* [2]*UP National Institute of Geological Sciences*

SE25-D4-PM1-P-029

SE25-A031
Shakealert@Taiwan: A Non-Traditional Regional Earthquake Early Warning System Based on Time-Dependent Anisotropic Peak Ground Motion Attenuation Relationships
Yih-Min WU[1#+]
[1]*National Taiwan University*

SE25-D4-PM1-P-030

SE25-A033
Magnetic Measurements of Sediments from Citarum River in Bandung, Indonesia
Sudarningsih SUNDARNINGSIH[1#+], Satria BIJAKSANA[1], Widodo WIDODO[1], Irwan ISKANDAR[1]
[1]*Institut Teknologi Bandung*

SE25-D4-PM1-P-031

SE25-A034
The 29ky Caldera-Forming Eruption of Mt. Masurai, Jambi, Indonesia
Antonius RATDOMOPURBO[1#+], Ruly SETIAWAN[2], Arief PRABOWO[1], Sam PERMANADEWI[1], Mutiara EFFENDI[1], Asep ROHIMAN[1], Ronaldo IRZON[2], Eko WAHYUDI[3]
[1]*Geological Agency,* [2]*Center for Geological Survey,* [3]*Bappeda Merangin Jambi*

SE25-D4-PM1-P-032

SE25-A036
Polymerization of Silicate Anion in Layered Double Hydroxide and Serpentinization at Low Temperature
Haruko HASE[1+], Tsutomu SATO[1#]
[1]*Hokkaido University*

SE25-D4-PM1-P-033

SE25-A037
Petrological and Geochemical Signatures of the Ultramafic Section of the Pujada Ophiolite, Se Mindanao, Philippines
Valerie Shayne OLFINDO[1#+]
[1]*University of the Philippines Diliman*

SE25-D4-PM1-P-034

SE25-A040

Petrological Characteristics of the Inagauan Metamorphics, South Central Palawan: Possible Relationship with the Emplacement of the Palawan Ophiolite Complex

Christine Joy AMIYAN[1#+], Monica Joyce PERALTA[2], Mary Lance GARCIA[2], Carlo ARCILLA[1], Gabriel Theophilus VALERA[1]

[1]University of the Philippines Diliman, [2]UP National Institute of Geological Sciences

SE25-D4-PM1-P-035

SE25-A041

Hydrogeology and Geochemistry of the Hyperalkaline Springs in Palawan, Philippines

Nicole PELLEJERA-ORUGA[1#+], Carlo ARCILLA[1], Dawn CARDACE[2], Kristin WOYCHEESE[3], D'Arcy MEYER-DOMBARD[4], Emmanuel CODILLO[1], Roxanne SAMOSA[1], Timothy IRINGAN[1]

[1]University of the Philippines Diliman, [2]University of Rhode Island, [3]Massachusetts Institute of Technology, [4]University of Illinois at Chicago

SE25-D4-PM1-P-036

SE25-A044

Trace Element and Microbial Studies in Hydrothermal Spring Fluids and Their Genetic Implications in Manleluag, Pangasinan, Philippines

Timothy IRINGAN[1#+], Carlo ARCILLA[1], Dawn CARDACE[2], D'Arcy MEYER-DOMBARD[3], Nicole PELLEJERA-ORUGA[1], Kristin WOYCHEESE[4]

[1]University of the Philippines Diliman, [2]University of Rhode Island, [3]University of Illinois at Chicago, [4]Massachusetts Institute of Technology

SE25-D4-PM1-P-037

SE25-A045

Tracing the Origins of Luzon Black Sands: Provenance Analysis of Magnetite Sands via Mineralogy and Geochemistry

Jeremy James JIMENEZ[1#+], Carlo ARCILLA[1]

[1]University of the Philippines Diliman

SE25-D4-PM1-P-038

SE25-A048

Variability of Clay Mineral Assemblage of Fluvial Sediments in South Central Palawan Due to Differences in Source Terrane

Oliver Paul HALASAN[1#+], Virgilio III Elijah RINGOR[1], Moises Ian AREVALO[1], Edwin PABITO[1], Carlo ARCILLA[2], Jillian Aira GABO[2]

[1]UP - National Institute of Geological Sciences, [2]University of the Philippines Diliman

SE25-D4-PM1-P-039

SE25-A049

Unroofing History of South Central Palawan: Clues from Provenance Analyses of Sandstones from Panas and Isugod Formations

Aminshani LUKMAN[1#+], Carlo ARCILLA[2], Allan Gil FERNANDO[1], Ian Dave Caezar TADURAN[1], Miguel Luis CABAIS[1], Juan Gabriel ABAJON[1]

[1]UP National Institute of Geological Sciences, [2]University of the Philippines Diliman

SE25-D4-PM1-P-040

SE25-A051

Ion-Exchanged Philippine Bentonites: Preparation, Characterization, and Phenol Adsorption Property

Camille MENDOZA[1], Mel Bryan ESPENILLA[1], Xandr Neal UBOAN[1+], Carlo ARCILLA[1], Marlon CONATO[1#]

[1]University of the Philippines Diliman

SE25-D4-PM1-P-041

SE25-A052

Petrographic and Geochemical Correlation Between Sandstone Units from North and South-Central Palawan, Philippines

Rasty RASTRULLO[1#+], Marmelou POPES[1], Selwyn CABALUNA[1], Ray PADERNILLA[1], Reven GIBAGA[1], Carlo ARCILLA[1]

[1]University of the Philippines Diliman

SE25-D4-PM1-P-042 SE25-A053
Quantitative Mineralogical Analysis of Nickel Laterite from Long Point, Apurawan, Aborlan, Palawan
Chelsi Grace MENDOZA[1#+], Carmela Alen TUPAZ[1], Kathleen Ann FERRER[1], Joahnna Marie ILORETA[1], Angelita PANGILINAN[1], Carlo ARCILLA[1]
[1]*University of the Philippines Diliman*

SE25-D4-PM1-P-043 SE25-A054
Lithologic Correlation of the Metamorphic Units from North to South Central Palawan Using Petrography and Sedimentary Geochemistry
Marmelou POPES[1#+], Rasty RASTRULLO[1], Selwyn CABALUNA[1], Ray PADERNILLA[1], Reven GIBAGA[1], Carlo ARCILLA[1]
[1]*University of the Philippines Diliman*

SE25-D4-PM1-P-044 SE25-A055
Clays from Sagada, Mountain Province, Phillipines: Raw Material for Ceramic Application
Aran Khristian MENDOZA[1#+], Carlo ARCILLA[1]
[1]*University of the Philippines Diliman*

SE25-D4-PM1-P-045 SE25-A056
Chemical, Mineralogical, and Thermal Analysis of Bentonites and Zeolites from Mangatarem, Pangasinan, Philippines
Paul Albert Frederick CASTILLO[1#+], Emmanuel CODILLO[1], Carlo ARCILLA[1]
[1]*University of the Philippines Diliman*

SE25-D4-PM1-P-046 SE25-A057
Mobilization and Enrichment of Elements in a Nickel Laterite Profile from Aborlan, Palawan, Philippines
John Kent REMOLADOR[1#+], Alger Danielle BALLON[1], Johann Joseph SAHAGUN[1], Chechen TAN[1], Jillian Aira GABO[1], Carlo ARCILLA[1]
[1]*University of the Philippines Diliman*

SE25-D4-PM1-P-047 SE25-A059
Crustal Structure Beneath Northeastern Tibetan Plateau Revealed by Teleseismic Receiver Functions
Xinfu LI[1#+], Hongyi LI[1]
[1]*China University of Geosciences*

SE25-D4-PM1-P-048 SE25-A060
Analysis of Seismic Signals Near Jang Bogo Station, Terra Nova Bay, East Antarctica
Chang Hwan KONG[1#+], Tae-Seob KANG[1], Hyun Jae YOO[1]
[1]*Pukyong National University*

SE25-D4-PM1-P-049 SE25-A065
Preliminary Study on Seabed Pockmarks in the Hupo Basin of the East Sea (Sea of Japan)
Chang Hwan KIM[1#+], Myoung Hoon LEE[1], Chan Hong PARK[1], Won-Hyuck KIM[1], Soon-Young CHOI[1], Hyeon Yeong PARK[1]
[1]*Korea Institute of Ocean Science & Technology*

SE25-D4-PM1-P-050 SE25-A067
Global Ionospheric VTEC Forecasting by Using an Adaptive Autoregressive Model
Cheng WANG[1#+], Chuang SHI[1]
[1]*Wuhan University*

SE27-D4-PM1-P-006 SE27-A001

Age and Geochemical Constraints from NW Sumatra on the Petrogenesis of Arc Volcanism and Tectonic Implications

Yu-Ming LAI[1#+], Sun-Lin CHUNG[2], Azman GHANI[3], Sayed MURTADHA[4], Mei-Fei CHU[2], Hao-Yang LEE[5], Chun-Chieh HSU[2]

[1]National Taiwan Normal University, [2]National Taiwan University, [3]University of Malaya, [4]Syiah Kuala University, [5]Academia Sinica

SE27-D4-PM1-P-007 SE27-A008

Petrographic and Geochemical Analysis of Gabbros from the Palawan Ophiolite

Iran BROTAMONTE[1], Maria Caezare Mae CARINO[1], Myre Adrienne Jade GESULGA[1#], Jalan Joy UMBINA[1+], Emmanuel CODILLO[1]

[1]University of the Philippines Diliman

Presentations
11 Aug, 2017
Friday

Day 5 - 11 Aug 2017, Friday
Program Overview

11 Aug 2017, Friday						
Time / Room	**AM1**	**AM2**	**Lunch**	**PM1**	**PM2**	**Evening**
	08:30 - 10:30	**11:00 - 12:30**	**12:30 - 14:00**	**14:00 - 15:30**	**16:00 - 18:00**	**18:00 – 19:00**
MR308	AS42 (p345)	AS42 (p346)		AS06 (p335)		
MR309	ST16 (p360)	ST16 (p360)		ST Session Discussion		
MR310	HS13 (p349)	HS13 (p350)		HS15 (p351)		
MR311	SE02 (p362)	SE15 (p363)		SE11 (p363)		
MR327	HS11 (p347)	HS11 (p348)		HS12 (p348)		
MR328	OS07 (p354)	OS21 (p356)		OS21 (p357)		
MR329	OS11 (p355)	OS11 (p356)		OS05 (p353)		
MR330	IG04 (p352)	IG DL (p12)	IG Meeting			
MR331	PS08 (p358)	PS DL (p16)	PS Meeting	Workshop 2 (p34)		
MR332	AS17 (p337)	AS16 (p335)		AS16 (p336)		
MR333	AS36 (p343)	AS36 (p344)		AS22 (p339)		
MR334	AS41 (p344)	AS18 (p338)		AS18 (p338)		
MR335	AS31 (p340)	AS31 (p341)		AS31 (p342)		
Summit				IG Posters (p365) PS Posters (p375)		
Nicoll					Closing (p38)	Farewell Reception

AS06 **Spatial and Temporal Variability of Aerosol in an Around Indian Subcontinent and the Associated Radiative Forcing - a Study from In-situ and Satellite Derived Data**
*Harilal MENON *Goa University,* Binita PATHAK *Dibrugarh University,* Mukunda M. GOGOI *Vikram Sarabhai Space Centre,* Yogesh KANT *Indian Institute of Remote Sensing*

AS16 **Anthropogenic and Aeolian Aerosols**
*Cheol-Hee KIM *Pusan National University,* Fan MENG *Chinese Research Academy of Environmental Sciences,* Chung-Shin YUAN *National Sun Yat-sen University,* Mizuo KAJINO *Japan Meteorological Agency,* Soon-Ung PARK *Center for Atmospheric and Environmental Modeling*

AS17 **Heavy Rainfall Monitoring and Associated QPE/QPF in the Complex Terrain Area**
*Chian-Yi LIU *National Central University,* Dong-In LEE *Pukyong National University,* Edgar VALLAR *De La Salle University,* Tien-Chiang YEH *Central Weather Bureau,* Ben JOU *National Taiwan University*

AS18 **Advances in Understanding and Simulation of Land-atmosphere Interactions**
*Eun-Soon IM *Hong Kong University of Science and Technology,* Min-Hui LO *National Taiwan University,* Joong-Bae AHN *Pusan National University*

AS22 **Enso and Iod Theory, Impact and Prediction**
*Tao LIAN *State Oceanic Administration,* Dake CHEN *State Oceanic Administration,* Youmin TANG *State Oceanic Administration*

AS31 **Regional Climate Downscaling and CORDEX: Challenges and Prospects**
*Hyun-Suk KANG *Korea Meteorological Administration,* Satyaban B. RATNA *University of East Anglia,* Fredolin T. TANGANG *National University of Malaysia,* Xianxiang LI *Singapore-MIT Alliance for Research and Technology,* Jason EVANS *University of New South Wales*

AS36 **Extreme Weather Resiliency: Prediction and Response Strategies**
*Everette JOSEPH *University at Albany, State University of New York,* Pay-Liam LIN *National Central University,* Ming-Jen YANG *National Taiwan University,* Shanka Lal GARG *Disaster Advances,* Ashwajeet GARG *World Research Journals*

AS41 **Exploration and Science of the Earth's Lower and Middle Atmosphere: Past, Present and Future Perspectives**
*Som Kumar SHARMA *Physical Research Laboratory,* Shikha RAIZADA *Arecibo Observatory, Puerto Rico, USA,* Krishna SHUKLA *Physical Research Laboratory,* Sumit Kumar MISHRA *CSIR-National Physical Laboratory,* P K RAJESH *National Central University*

AS42 **Remote Sensing of Fires, Aerosols, Surface Pm2.5, and Aerosol Precursors**
*Jun WANG *The University of Iowa,* Liangfu CHEN *Chinese Academy of Sciences,* Andy CHAN *The University of Nottingham,* Santo SALINAS *National University of Singapore*

HS11 **Impacts and Consequences of Changing Climate and Landuse on Hydrology**
*Shailesh SINGH *National Institute of Water and Atmospheric Research,* C. T. DHANYA *Indian Institute of Technology Delhi,* Mingna WANG *China Institute of Water Resources and Hydropower Research*

HS12 **Urban Development and Climate Change**
*Jeanne Jinhui HUANG *Nankai University*, James LI *Ryerson University*

HS13 **Dealing with Hydrological Extremes: Theory, Simulation, and Practice**
*Ke-Sheng CHENG *National Taiwan University*, Yasuto TACHIKAWA *Kyoto University*, Hidetaka CHIKAMORI *Okayama University*, Wen-Cheng HUANG *National Taiwan Ocean University*

HS15 **Risk Assessment Related to Hydrological, Climatic, and Environmental Changes**
*Tsang-Jung CHANG *National Taiwan University*, Hwa-Lung YU *National Taiwan University*, Hao-Che HO *National Taiwan University*

IG04 **General Session**
*Kazuhisa GOTO *Tohoku University*, James GOFF *University of New South Wales*

OS05 **Interactions in the Freezer: the Complex Roles of the Ocean, Ice, and Atmosphere in the Polar Regions**
*Robin ROBERTSON *University of New South Wales*, Helen MACDONALD *National Institute for Water and Atmospheric Research (NIWA)*, Xiaochun WANG *Nanjing University of Information Science & Technology*

OS07 **General and Multidisciplinary Oceanography**
*Charles LEMCKERT *University of Canberra*, Yuping GUAN *LED, South China Sea Institute of Oceanology, Chinese Academy of Sciences*, Hla Hla AUNG *Myanmar Earthquake Committee*, Tao YANG *China University of Geosciences*, Rina ZURAIDA *Marine Geological Institute*, Xuefa SHI *State Oceanic Administration*

OS11 **Observations and Modeling of Physical, Chemical, and Biological Processes in the Southern Ocean**
*Jiping LIU *Institute of Atmospheric Physics, Chinese Academy of Sciences*, Bhaskar PARLI *National Centre for Antarctic & Ocean Research*, Oscar SCHOFIELD *Rutgers University*, Jiuxin SHI *Ocean University of China*, Louise NEWMAN *SOOS International Project Office and University of Tasmania*

OS21 **Western Boundary Currents, Eddies and Continental Shelf Processes**
*Ruoying HE *North Carolina State University*, Jianping GAN *The Hong Kong University of Science and Technology*, Moninya ROUGHAN *University of New South Wales*

PS08 **Juno's Exploration of Jupiter**
*Scott BOLTON *Southwest Research Institute*, Paul HARTOGH *Max Planck Institute for Solar System Research*, Wing-Huen IP *National Central University*, Glenn ORTON *Jet Propulsion Laboratory, California Institute of Technology*

ST16 **The Large-scale Interplanetary Phenomena: Sources, Properties and Space Weather Effects**
*Chenglong SHEN *University of Science and Technology of China*, Lan JIAN *NASA Goddard Space Flight Center*, Yuri YERMOLAEV *Russian Academy of Sciences*, Bingxian LUO *National Space Science Center of Chinese Academy of Sciences*

SE02 **From Escape to Subduction: the Tectonics of Indochina**
*Raymond RUSSO *University of Florida*, Shengji WEI *Earth Observatory of Singapore*, Victor MOCANU *University of Bucharest*, Sutatcha HONGSRESAWAT *Mahidol University*, Jonathan AITCHESON *University of Queensland*

SE11 **Earthquake Hydrology Geochemistry and Hydroseismology**

*Fuqiong HUANG *China Earthquake Network Center,* Narayan Prasad DEWANGAN *Sarguja University,* Kuofong MA *TaiPei University,* Yasuyuki KANO *Kyoto University,* Bhaskar CHANDRAKAR *Chhattisgarh Swami Vivekanand Technical University (CSVTU)*

SE15 **Promoting Geodetic and Geodynamic Applications of Static and Time-varying Gravimetry in Asia-oceania**

*Cheinway HWANG *National Chiao Tung University,* Dyah PANGASTUTI *Badan Informasi Geospasial,* Wenke SUN *University of Chinese Academy of Sciences,* Yoichi FUKUDA *Kyoto University*

AS06 / Spatial and Temporal Variability of Aerosol in an Around Indian Subcontinent and the Associated Radiative Forcing - a Study from In-situ and Satellite Derived Data

Fri - 11 Aug | MR308

Session Chair(s) Harilal B. MENON, *Goa University*
Mukunda M. GOGOI, *Vikram Sarabhai Space Centre*

14:00 AS06-A011
AS06-D5-PM1-308-001
Impact of Forest Fire on Black Carbon Concentration and Tropospheric NO2 Over North Eastern Region of India
Arup BORGOHAIN[1#+], Nilamoni BARMAN[1], Shyam Sundar KUNDU[1], Aniket CHAKRAVORTY[1], Rekha BHARALI[1], P.L.N. RAJU[1]
[1]North Eastern Space Applications Centre

14:15 AS06-A004
AS06-D5-PM1-308-002
Vertical Profiles of Aerosol Optical Properties in the Indo-Gangetic Plain and its Radiative Implications
Aditya VAISHYA[1#+], V. JAYACHANDRAN[1], Mukunda M. GOGOI[1], S. Suresh BABU[1]
[1]Vikram Sarabhai Space Centre

14:30 AS06-A007
AS06-D5-PM1-308-003
Aircraft Measurements of Aerosol Number Size Distribution Over India: Radiative Implications of Elevated Coarse Mode Absorption During Spring
Mukunda M. GOGOI[1#+], S. Suresh BABU[1], Lakshmi N. B.[1], Vijayakumar S. NAIR[1], K. KRISHNA MOORTHY[2]
[1]Vikram Sarabhai Space Centre, [2]Indian Institute of Science

14:45 AS06-A008
AS06-D5-PM1-308-004
Spatial and Temporal Variability of Aerosol Optical Depth (AOD), BC Mass Concentration and Associated Radiative Forcing Over Oceanic Domain of Tropics, Sub-Tropics and Polar Waters of Indian Ocean
Harilal MENON[1#+], Shrivardhan HULSWAR[1]
[1]Goa University

15:00 AS06-A003
AS06-D5-PM1-308-005
Decadal Climatological Variability of Aerosol Loading in the Upper Brahmaputra Basin and Their Radiative Properties
Tamanna SUBBA[1#+], Binita PATHAK[1], Mukunda M. GOGOI[2], Pradip BHUYAN[1]
[1]Dibrugarh University, [2]Vikram Sarabhai Space Centre

AS16 / Anthropogenic and Aeolian Aerosols

Fri - 11 Aug | MR332

Session Chair(s) Chung-Shin YUAN, *National Sun Yat-sen University*
Cheol-Hee KIM, *Pusan National University*

11:00 AS16-A008
AS16-D5-AM2-332-001
Invited
Fast Responses of Climate System to Carbon Dioxide, Aerosols and Sulfate Aerosols Without the Mediation of SST in the CMIP5
Di TIAN[1+], Wenjie DONG[2#], Dao-Yi GONG[3], Yan GUO[3], Shili YANG[3]
[1]State Oceanic Administration, [2]Sun Yat-sen University, [3]Beijing Normal University

11:15 AS16-A021

AS16-D5-AM2-332-002 Source-Receptor Relationship of PM2.5 Over East Asia and its Validation Using Chemical Measurements and Model Intercomparison

Mizuo KAJINO[1#+], Keiichi SATO[2], Cheol-Hee KIM[3], Jong Jae LEE[3], Akinori TAKAMI[4], Hiromasa UEDA[5]

[1]Japan Meteorological Agency, [2]Asia Center for Air Pollution Research, [3]Pusan National University, [4]National Institute for Environmental Studies, [5]Kyoto University

11:30 AS16-A004

AS16-D5-AM2-332-003 Spatiotemporal Variation and Source Apportionment of PM2.5 for Two Typical Episodes in Central Taiwan

Chung-Shin YUAN[1#+], Huazhen SHEN[1], Yubo JIANG[1], Zongmou YANG[1], Chung-Min HUNG[1]

[1]National Sun Yat-sen University

11:45 AS16-A016

AS16-D5-AM2-332-004 The Changing Aeolian Dust Emissions Over South Asia Inferred from Multiple Ground and Satellite Measurements

V. VINOJ[1#+], Satyendra Kumar PANDEY[1], Kiranmayi LANDU[1], Suresh Babu S.[2]

[1]Indian Institute of Technology Bhubaneswar, [2]Vikram Sarabhai Space Centre

12:00 AS16-A006

AS16-D5-AM2-332-005 Simulation of the Dust Aerosol and its Climatic Effect Over East Asia Using WRF-Chem Model

Siyu CHEN[1+], Jianping HUANG[1#]

[1]Lanzhou University

12:15 AS16-A011

AS16-D5-AM2-332-006 Dust Activity and its Effects on Meteorological Fields Over East Asia

Lin SU[1#+]

[1]Hong Kong University of Science and Technology

Session Chair(s) Cheol-Hee KIM, *Pusan National University*

14:00 AS16-A022

AS16-D5-PM1-332-007 Invited To Improve the Flux Estimation of Atmospheric Organic Nitrogen by Using Different Molecular Weight Composition Mode

Hung-Yu CHEN[1#+], Yi-Cian SHIH[1]

[1]National Taiwan Ocean University

14:15 AS16-A003

AS16-D5-PM1-332-008 Emissions of Polybrominated Diphenyl Ethers During the Start-up Incineration Procedure by the Multi-Fuel- Combustion of Diesel and Waste

Sheng-Lun LIN[1#+], Farran REDFERN[2], Lin-Chi WANG[1], Jhong-Lin WU[2]

[1]Cheng Shiu University, [2]National Cheng Kung University

14:30 AS16-A018

AS16-D5-PM1-332-009 Influences of Aeolian Dusts and Anthropogenic Particles on Ambient Particulate Air Quality in Southern Taiwan During Rainy Season - Effect of Typhoon Outflows

Chung-Shin YUAN[1#+], Chun-Chung LU[1], Tsung-Chang LI[1], Huazhen SHEN[1]

[1]National Sun Yat-sen University

14:45 AS16-A015
AS16-D5-PM1-332-010 Evaluations and Modification of Emissions Using 3D-Var Data Assimilation Technique Over Northeast Asia
Hyun-Young JO[1+], Hyo-Jung LEE[1], Yu-Jin JO[1], Cheol-Hee KIM[1#]
[1]Pusan National University

15:00 AS16-A013
AS16-D5-PM1-332-011 Study on the Chemical Characteristics of Aerosols Associated with Long-Range Transport Over East Asia Using WRF-Chem Model
Yu-Jin JO[1+], Hyo-Jung LEE[1], Hyun-Young JO[1], Cheol-Hee KIM[1#]
[1]Pusan National University

AS17 / Heavy Rainfall Monitoring and Associated QPE/QPF in the Complex Terrain Area

Fri - 11 Aug | MR332

Session Chair(s) Chian-Yi LIU, *National Central University*

08:30 AS17-A015
AS17-D5-AM1-332-001 An Overview of Radar QPE at NCAR
Wenchau LEE[1#+]
[1]National Center for Atmospheric Research

08:45 AS17-A007
AS17-D5-AM1-332-002 Improving C-Band Polarimetric Radar Rainfall Estimation for Summer Precipitation in Eastern China
Kun ZHAO[1#+], Gang CHEN[1], Guifu ZHANG[2]
[1]Nanjing University, [2]Oklahoma University

09:00 AS17-A010
AS17-D5-AM1-332-003 A Study of High Resolution TWRF Model Tropical Cyclone Rainfall Prediction Over High Terrain Area
Tien-Chiang YEH[1#+], Der Song CHEN[1], Ling-Feng HSIAO[2]
[1]Central Weather Bureau, [2]Taiwan Typhoon Flood Research Institue

09:15 AS17-A013
AS17-D5-AM1-332-004 Comparison Between DSD Parameters Using a Radar and Disdrometer by Rainfall Types in Central Part of Korea
Jui Le LOH[1+], Dong-In LEE[1#], Cheol-Hwan YOU[2], Ji-Hyeon KIM[3]
[1]Pukyong National University, [2]Dong-A University, [3]Korea Meteorological Administration

09:30 AS17-A014
AS17-D5-AM1-332-005 Comparison of Quantitative Precipitation Estimation from S- and C-Band Dual-Polarimetric Radars Over Norther Taiwan
Wei-Yu CHANG[1#+], Ju-Yu CHEN[2], Tai-Chi CHEN WANG[2]
[1]Chinese Culture University, [2]National Central University

09:45 AS17-A001
AS17-D5-AM1-332-006 Developing Himawari-8 Near Realtime System at NSMC/CMA
Min MIN[1#+]
[1]China Meteorological Administration

10:00 AS17-A004
AS17-D5-AM1-332-007
Evaluation of Retrieved Cloud Microphysical Properties Between Himawari-8 and MODIS Observations
Chi-Hao CHIU[1#+], Chian-Yi LIU[1]
[1]National Central University

10:15 AS17-A002
AS17-D5-AM1-332-008
On the Assimilation of GNSS-PWV Measurements in Heavy to Torrential Rain Events in Davao City, Philippines
Kristine Mae CARNICER[1,2#+], Rui FERNANDES[3], Edgar VALLAR[1], Maria Cecilia GALVEZ[1]
[1]De La Salle University, [2]Ateneo de Davao University, [3]University of Beira Interior

AS18 / Advances in Understanding and Simulation of Land-atmosphere Interactions

Fri - 11 Aug | MR334

Session Chair(s) Eun-Soon IM, *Hong Kong University of Science and Technology*
Min-Hui LO, *National Taiwan University*

11:00 AS18-A006
AS18-D5-AM2-334-001
Invited
Effects of Land-Atmosphere Interactions on the Regional Climate Over Northeast Asia Based on the Simulation Results of Regional Climate Model
Myoung-Seok SUH[1#+]
[1]Kongju National University

11:20 AS18-A001
AS18-D5-AM2-334-002
Invited
Large-Scale Human Alteration of Land Surface Hydrology and Climate
Yadu POKHREL[1#+], Tomohito J. YAMADA[2]
[1]Michigan State University, [2]Hokkaido University

11:40 AS18-A009
AS18-D5-AM2-334-003
Impacts of Changes in Climate and Vegetation on Mercury Emissions from Wildfires
Shiliang WU[1,2#+], Aditya KUMAR[1], Yaoxian HUANG[3]
[1]Michigan Technological University, [2]Ocean University of China, [3]Yale University

11:55 AS18-A007
AS18-D5-AM2-334-004
Improved Representation of Surface Spectral Emissivity in the GCM and its Impact on the Simulated Climate
Xianglei HUANG[1#+], Xiuhong CHEN[1], Mark FLANNER[1], Ping YANG[2], Daniel FELDMAN[3], Chaincy KUO[3]
[1]University of Michigan, [2]Texas A&M University, [3]Lawrence Berkeley National Laboratory

Session Chair(s) Min-Hui LO, *National Taiwan University*

14:00 AS18-A014
AS18-D5-PM1-334-005
Understanding the Impact of Land Use/Cover Changes on Regional Climate Modeling for Taiwan
Chia-Jeng CHEN[1#+], Chu-Chun CHEN[2], Che-Min CHANG[1], Jehn-Yih JUANG[2], Min-Hui LO[2]
[1]National Chung Hsing University, [2]National Taiwan University

14:15 AS18-A015
AS18-D5-PM1-334-006
Weakened Indian Summer Monsoon is Caused by Decades of Deforestation in the Maritime Continent
Shih-Ming HUANG[1+], Leo OEY[1#], Ting-Yu LIANG[1]
[1]National Central University

14:30 AS18-A018
AS18-D5-PM1-334-007
Impact of Land-Atmosheric Interaction on the Severe Summer Heat Waves Over South Korea
Yeon-Woo CHOI[1#+], Joong-Bae AHN[1], Kyo-Moon SHIM[2], Myung-Pyo JUNG[2]
[1]Pusan National University, [2]National Academy of Agricultural Science

14:45 AS18-A011
AS18-D5-PM1-334-008
Decadal Variation of Precipitation in Saudi Arabia Induced by Agricultural Irrigation
Min-Hui LO[1#+], Hao-Wei WEY[1], Yoshihide WADA[2,3], Eun-Soon IM[4], Rong-You CHIEN[1], Ren-Jie WU[1]
[1]National Taiwan University, [2]NASA Goddard Institute for Space Studies/ Columbia University, [3]Utrecht University, [4]Hong Kong University of Science and Technology

AS22 / Enso and Iod Theory, Impact and Prediction

Fri - 11 Aug | MR333

Session Chair(s) Tao LIAN, *Second Institute of Oceanography*

14:00 AS22-A008
AS22-D5-PM1-333-001
Invited
Atmospheric Energetics Over the Tropical Pacific During the ENSO Cycle
Jianping LI[1#+], Di DONG[2], Lidou HUYAN[2], Jiaqing XUE[2]
[1]Beijing Normal University, [2]Chinese Academy of Sciences

14:15 AS22-A010
AS22-D5-PM1-333-002
Invited
Target Observations for Improving Initializations of Two Types of El Nino Predictions
Wansuo DUAN[1#+]
[1]Chinese Academy of Sciences

14:30 AS22-A005
AS22-D5-PM1-333-003
Was 2016 a La Nina Year? A Maritime Continent Perspective
Thea TURKINGTON[1#+], Bertrand TIMBAL[2], Raizan RAHMAT[1]
[1]Centre for Climate Research Singapore, [2]National Environment Agency

14:45 AS22-A011
AS22-D5-PM1-333-004
Modulation of Bjerknes Feedback on the Decadal Variations in ENSO Predictability
Fei ZHENG[1#+], Xiang-Hui FANG[2], Jin-Yi YU[3], Jiang ZHU[1], Xichen LI[4]
[1]Chinese Academy of Sciences, [2]Indian Academy of Pediatrics, [3]University of California, Irvine, [4]Scripps Institution of Oceanography

15:00 AS22-A007
AS22-D5-PM1-333-005
The Influence of ENSO on an Oceanic Eddy Pair in the South China Sea
Xiaoqing CHU[1#+], Changming DONG[2,3], Yiquan QI[1], Gengxin CHEN[1]
[1]Chinese Academy of Sciences, [2]Nanjing University of Information Science & Technology, [3]University of California, Los Angeles

15:15 AS22-A006

AS22-D5-PM1-333-006 Optimal Error Analysis of the Intraseasonal Convection Due to the Uncertainties of the Sea Surface Temperature in a Coupled Model

Xiaojing LI[1+], Youmin TANG[1,2#], Zhixiong YAO[1]

[1]State Oceanic Administration, [2]University of Northern British

AS31 / Regional Climate Downscaling and CORDEX: Challenges and Prospects

Fri - 11 Aug | MR335

Session Chair(s) Hyun-Suk KANG, *Korea Meteorological Administration*
Xuejie GAO, *Institute of Atmospheric Physics*

08:30 AS31-A012

AS31-D5-AM1-335-001 Global and Regional Climate Model Ensembles in the CORDEX South-Asia Domain

Arun RANA[1#+], Grigory NIKULIN[1], Erik KJELLSTROM[1]

Invited

[1]Swedish Meteorological and Hydrological Institute

08:45 AS31-A032

AS31-D5-AM1-335-002 Projected Changes in Mean Precipitation Over Southeast Asia Region Based on the Multi-Model Simulations of SEACLID/CORDEX Southeast Asia

Fredolin T. TANGANG[1,2#+], Jing Xiang CHUNG[1], Ester SALIMUN[1], Ju Neng LIEW[1], Supari SUPARI[3], Gemma NARISMA[4], Tan Van PHAN[5], Thanh NGO-DUC[5], Jerasron SANTISIRISOMBOON[2], Patama SINGHRUCK[6], Dodo GUNAWAN[3], Edvin ALDRIAN[3], Grigory NIKULIN[7], Hongwei YANG[8]

[1]National University of Malaysia, [2]Ramkhamhaeng University, [3]Agency for Meteorology Climatology and Geophysics, [4]Ateneo de Manila University, [5]Vietnam National University, [6]Chulalongkorn University, [7]Swedish Meteorological and Hydrological Institute, [8]APEC Climate Center

09:00 AS31-A027

AS31-D5-AM1-335-003 Future Climate Changes in the Philippines from Multi-Model Simulations of SEACLID/CORDEX-SEA

Faye Abigail CRUZ[1#+], Rochelle CORONEL[1], Shane Marie VISAGA[1], Darwin PEREZ[2], Lyndon OLAGUERA[2], Angela Monina MAGNAYE[1,2], Jennifer TIBAY[1,2], Emil GOZO[1], Gemma NARISMA[1,2], Fredolin T. TANGANG[3,4], Ju Neng LIEW[3], Tan Van PHAN[5], Thanh NGO-DUC[5], Jerasron SANTISIRISOMBOON[4], Patama SINGHRUCK[6], Dodo GUNAWAN[7], Edvin ALDRIAN[7]

[1]Manila Observatory, [2]Ateneo de Manila University, [3]National University of Malaysia, [4]Ramkhamhaeng University, [5]Vietnam National University, [6]Chulalongkorn University, [7]Agency for Meteorology Climatology and Geophysics

09:15 AS31-A034

AS31-D5-AM1-335-004 Projected Future Changes of Mean Precipitation Over Thailand from Multi-Model Regional Climate Simulations of SEACLID/CORDEX Southeast Asia

Jerasron SANTISIRISOMBOON[1#+], Fredolin T. TANGANG[1,2], Jing Xiang CHUNG[2], Ester SALIMUN[2], Ju Neng LIEW[2], Supari SUPARI[3], Gemma NARISMA[4], Tan Van PHAN[5], Thanh NGO-DUC[5], Patama SINGHRUCK[6], Dodo GUNAWAN[3], Edvin ALDRIAN[3], Grigory NIKULIN[7], Hongwei YANG[8], Jaruthat MILINDALEKHA S.[1], Waranyu WONGSAREE[9], Kamphol PROMJIRAPRAWAT[1], Yod SUKAMONGKOL[1], Prayat LEWAN[1]

[1]Ramkhamhaeng University, [2]National University of Malaysia, [3]Agency for Meteorology Climatology and Geophysics, [4]Ateneo de Manila University, [5]Vietnam National University, [6]Chulalongkorn University, [7]Swedish Meteorological and Hydrological Institute, [8]APEC Climate Center, [9]King Mongkut's University of Technology North Bangkok

09:30
AS31-D5-AM1-335-005
AS31-A002
High Resolution Climate Downscaling Over Southeast Asia Using WRF
Srivatsan RAGHAVAN[1#+], Jina HUR[1], Ngoc Son NGUYEN[1], Jiandong LIU[1], Shie-Yui LIONG[1]
[1]National University of Singapore

09:45
AS31-D5-AM1-335-006
AS31-A010
Detecting Tropical Cyclones in Regional Climate Model Simulations Over the CORDEX-Southeast Asia Domain
Jennifer TIBAY[1,2+], Gemma NARISMA[1,2#], Faye Abigail CRUZ[2], Rochelle CORONEL[2], Emil GOZO[2], Tan Van PHAN[3], Fredolin T. TANGANG[4,5]
[1]Ateneo de Manila University, [2]Manila Observatory, [3]Vietnam National University, [4]National University of Malaysia, [5]Ramkhamhaeng University

10:00
AS31-D5-AM1-335-007
AS31-A020
Future Changes of Precipitation Extremes in Southeast Asia as Simulated in Cordex-Sea Models
Supari SUPARI[1#+], Fredolin T. TANGANG[2,3], Ju Neng LIEW[2], Jerasron SANTISIRISOMBOON[3], Patama SINGHRUCK[4], Tan Van PHAN[5], Thanh NGO-DUC[5], Faye Abigail CRUZ[6], Gemma NARISMA[6,7], Edvin ALDRIAN[1], Dodo GUNAWAN[1], Grigory NIKULIN[8], Hongwei YANG[9]
[1]Agency for Meteorology Climatology and Geophysics, [2]National University of Malaysia, [3]Ramkhamhaeng University, [4]Chulalongkorn University, [5]Vietnam National University, [6]Manila Observatory, [7]Ateneo de Manila University, [8]Swedish Meteorological and Hydrological Institute, [9]APEC Climate Center

Session Chair(s)
Jason EVANS, *University of South Wales*
Bertrand TIMBAL, *Meteorological Service Singapore*

11:00
AS31-D5-AM2-335-008
Invited
AS31-A021
Performance Of RegCM4 Over Major River Basins in China
Xuejie GAO[1#+]
[1]Chinese Academy of Sciences

11:15
AS31-D5-AM2-335-009
AS31-A005
Dynamic Downscaling of Current Climate (1981-2005) Over CORDEX East Asia Phase 2 Domain Using RegCM4.0
Seok-Geun OH[1+], Myoung-Seok SUH[1#]
[1]Kongju National University

11:30
AS31-D5-AM2-335-010
AS31-A009
Comparison of Regional Climate Simulations from Three Different Horizontal Resolution Using the HadGEM3-RA
Hyun-Suk KANG[1#+], Song-Yee HONG[1]
[1]Korea Meteorological Administration

11:45
AS31-D5-AM2-335-011
AS31-A040
Climate Change Projection Over East Asia and the Korean Peninsula
Dong-Hyun CHA[1#+], Gayoung KIM[1], Dong-Kyou LEE[2,3], Myoung-Seok SUH[4], Joong-Bae AHN[5], Seung-Ki MIN[6], Song-You HONG[7], Hyun-Suk KANG[3]
[1]Ulsan National Institute of Science and Technology, [2]Seoul National University, [3]Korea Meteorological Administration, [4]Kongju National University, [5]Pusan National University, [6]Pohang University of Science and Technology, [7]Yonsei University

12:00
AS31-D5-AM2-335-012

AS31-A041
Future Changes in Extreme Precipitation Over South Korea Using Multi-Regional Climate Models
Sera JO[1#+], Joong-Bae AHN[1], Myoung-Seok SUH[2], Dong-Hyun CHA[3], Dong-Kyou LEE[4,5], Song-You HONG[6], Seung-Ki MIN[7], S.C. PARK[5], Hyun-Suk KANG[5]
[1]Pusan National University, [2]Kongju National University, [3]Ulsan National Institute of Science and Technology, [4]Seoul National University, [5]Korea Meteorological Administration, [6]Yonsei University, [7]Pohang University of Science and Technology

12:15
AS31-D5-AM2-335-013

AS31-A006
Heat Waves in Taiwan: Western North Pacific Subtropical High and Climate Variability
Mien-Tze KUEH[1#+], Chuan-Yao LIN[1], Yin-Jui CHUANG[1], Yangfan SHENG[1], Yi-Yun CHIEN[1]
[1]Academia Sinica

Session Chair(s)
Fredolin T. TANGANG, *National University of Malaysia*
Arun RANA, *Swedish Meteorological and Hydrological Institute*

14:00
AS31-D5-PM1-335-014

AS31-A014
Convection-Permitting Regional Climate Modelling of the Maritime Continent and the Impact of Urban Areas
Jason EVANS[1#+], Daniel ARGUESO[2], Alejandro DI LUCA[1]
[1]University of New South Wales, [2]University of Hawaii

14:15
AS31-D5-PM1-335-015

AS31-A024
Future Changes in Extremely Heavy Winter Precipitation Around Japan Projected by Regional Climate Models
Hiroaki KAWASE[1#+], Hidetaka SASAKI[1], Akihiko MURATA[2], Masaya NOSAKA[1], Izuru TAKAYABU[1], Rui ITO[3], Takahiro SASAI[4], Takeshi YAMAZAKI[4], Shiori SUGIMOTO[5]
[1]Japan Meteorological Agency, [2]Meteorological Research Institute / Japan Meteorological Agency, [3]National Research Institute for Earth Science and Disaster Resilience, [4]Tohoku University, [5]Japan Agency for Marine-Earth Science and Technology

14:30
AS31-D5-PM1-335-016

AS31-A013
Projection of Heavy Precipitation Over Japan in Ensemble Simulations with a Convection-Permitting Regional Climate Model
Akihiko MURATA[1#+], Hidetaka SASAKI[2], Hiroaki KAWASE[2], Masaya NOSAKA[2], Toshinori AOYAGI[2], Mitsuo OH'IZUMI[3]
[1]Meteorological Research Institute / Japan Meteorological Agency, [2]Japan Meteorological Agency, [3]Meteorological College

14:45
AS31-D5-PM1-335-017
Invited

AS31-A039
Statistical Versus Dynamical Downscaling in the Tropics: What are the Challenges?
Bertrand TIMBAL[1#+]
[1]National Environment Agency

15:00
AS31-D5-PM1-335-018

AS31-A019
Monthly Bias Correction of Simulated Historical and Projected Daily Precipitation and Temperature in the Philippines
Shane Marie VISAGA[1+], Emilio GOZO[1], Rochelle CORONEL[1], Faye Abigail CRUZ[1], Gemma NARISMA[1,2#]
[1]Manila Observatory, [2]Ateneo de Manila University

15:15
AS31-D5-PM1-335-019
AS31-A033
Evaluation and Comparison of Multi Agro-Meteorological Elements Between Regression-Based Statistical Downscaling and Dynamical Downscaling Results Over Japan
Motoki NISHIMORI[1#+], Nobuhiko ENDO[1]
[1]*National Agriculture and Food Research Organization*

AS36 / Extreme Weather Resiliency: Prediction and Response Strategies

Fri - 11 Aug | MR333

Session Chair(s) Shanka Lal GARG, *Disaster Advances*

08:30
AS36-D5-AM1-333-007
Invited
AS36-A018
New Development and Prospective of NTU Microphysics Scheme for Simulating Extreme Precipitation
Jen-Ping CHEN[1#+], Tzu-Chin TSAI[1]
[1]*National Taiwan University*

08:50
AS36-D5-AM1-333-008
AS36-A032
The Importance of Microphysical Process Parameterizations on Extreme Weather
Kara SULIA[1#+], Fangqun YU[1], Qilong MIN[1], Gan LUO[1], Matthew GIBBONS[1], Lauriana GAUDET[1], Yuyi DU[1], Yanda ZHANG[1]
[1]*University at Albany, State University of New York*

09:05
AS36-D5-AM1-333-009
AS36-A036
Numerical Simulation of a Winter Storm in Upstate New York: Comparisons Between Bulk and Spectral Bin Microphysics
Qilong MIN[1#+], Matthew GIBBONS[1], Yuyi DU[1]
[1]*University at Albany, State University of New York*

09:20
AS36-D5-AM1-333-010
AS36-A034
Investigation of Cloud-Aerosol Interaction for Extreme Precipitation Events Using NCEP Global Models
Sarah LU[1#+], Sheng-Po CHEN[1], Wei-Chyung WANG[1], Huang-Hsiung HSU[2], Qilong MIN[1], Kara SULIA[1], Fangqun YU[1]
[1]*University at Albany, State University of New York,* [2]*Academia Sinica*

09:35
AS36-D5-AM1-333-011
AS36-A037
Study of Aerosol Impacts on Extreme Precipitation Using WRF-Chem Coupled with an Advanced Particle Microphysics Model
Fangqun YU[1#+], Yanda ZHANG[1], Gan LUO[1]
[1]*University at Albany, State University of New York*

09:50
AS36-D5-AM1-333-012
AS36-A001
Aerosol Effects on Clouds and Precipitation Over East Asia
Wei-Chyung WANG[1#+], Pay-Liam LIN[2], Jen-Ping CHEN[3], Guoxing CHEN[1], Yangyang SONG[1], Bo-Yi LU[4], Tzu-Chin TSAI[3]
[1]*University at Albany, State University of New York,* [2]*National Central University,* [3]*National Taiwan University,* [4]*University of Hawaii at Manoa*

10:05
AS36-D5-AM1-333-013
AS36-A040
A Pilot Study on Warm Rain Process in Aerosol-Rich Environment
Sheng-Hsiang WANG[1#+], Ying-Chieh CHEN[1], Pay LIAM[1], Kao-Shan CHUNG[1], Qilong MIN[2], Everette JOSEPH[2]
[1]*National Central University,* [2]*University at Albany, State University of New York*

Session Chair(s) Ming-Jen YANG, *National Taiwan University*

11:00
AS36-D5-AM2-333-014
AS36-A028
Impacts of Data Assimilation and Microphysics Schemes on Simulations of Heavy Rainfall Event
Pay-Liam LIN[1#+], Bo-Yi LU[2], Wei-Kuo TAO[3], Ching-Sen CHEN[1], Jen-Ping CHEN[4]
[1]National Central University, [2]University of Hawaii at Manoa, [3]NASA Goddard Space Flight Center, [4]National Taiwan University

11:15
AS36-D5-AM2-333-015
AS36-A019
Predicting the Heavy Precipitation Episode on 16 June 2008 with the WRF-LETKF Radar Assimilation System
Hsiang-Wen CHENG[1+], Shu-Chih YANG[1#], Chih-Chien TSAI[1]
[1]National Central University

11:30
AS36-D5-AM2-333-016
AS36-A017
A Sub-Kilometer Modeling Study of the Severe Thunderstorm Event with Urban Flooding at Taipei on 14 June 2015
Jyong-En MIAO[1,2#+], Ming-Jen YANG[1]
[1]National Taiwan University, [2]Central Weather Bureau

11:45
AS36-D5-AM2-333-017
AS36-A003
Impacts of Including Rain-Evaporative Cooling in the Initial Conditions on the Prediction of a Coastal Heavy Rainfall Event During Timrex
Chuan-Chi TU[1#+], Yi-Leng CHEN[2], Shu-Ya CHEN[3], Bill KUO[3], Pay-Liam LIN[1]
[1]National Central University, [2]University of Hawaii at Manoa, [3]University Corporation for Atmospheric Research

AS41 / Exploration and Science of the Earth's Lower and Middle Atmosphere: Past, Present and Future Perspectives

Fri - 11 Aug | MR334

Session Chair(s) Sachiko HAYASHIDA, *Nara Women University*

08:30
AS41-D5-AM1-334-009
Invited
AS41-A019
Toward Vertical Profiling of Atmospheric Species from Space: Recent Advances and Future Prospect
Sachiko HAYASHIDA[1#+], Naveen CHANDRA[1], Prabir PATRA[2,3], Naoko SAITOH[4], Yasuko KASAI[5]
[1]Nara Women's University, [2]Japan Agency for Marine-Earth Science and Technology, [3]Tohoku University, [4]Chiba University, [5]National Institute of Information and Communications Technology

08:50
AS41-D5-AM1-334-010
AS41-A003
Investigation of Extinction and Lidar-Ratio of Cirrus Clouds by Using Multichannel Raman Lidar Over Western Site: A Case Study
Krishna Kumar SHUKLA[1#+], Som Kumar SHARMA[1], Rajesh VAISHNAV[1]
[1]Physical Research Laboratory

09:05
AS41-D5-AM1-334-011
AS41-A007
Assessment of Seasonal Variations of BTEX Hydrocarbons and Their Ozone Forming Potential in Ambient Urban Atmosphere of Delhi, India
Pallavi SAXENA[1#+]
[1]Jawaharlal Nehru University

09:20 AS41-A011
AS41-D5-AM1-334-012
Invited
Study of Middle and Upper Atmosphere Using Lidars and Incoherent Scatter Radar at Arecibo
Shikha RAIZADA[1#+], Jens LAUTENBACH[1], Eframir FRANCO[1], Christiano GARNETT MARQUES BRUM[1]
[1]SRI International

09:40 AS41-A013
AS41-D5-AM1-334-013
Determination of Branching Ratios for the O(1S) and O2(0,0) Airglow VERs
Yolian AMARO-RIVERA[1#+], Tai-Yin HUANG[2], Julio URBINA[1]
[1]Pennsylvania State University, [2]Penn State Lehigh Valley

09:55 AS41-A024
AS41-D5-AM1-334-014
F-Region Response to St. Patrick Storm (17 -19 March, 2015) Over Arecibo
Shikha RAIZADA[1#+], Christiano GARNETT MARQUES BRUM[1], Bela FEJER[2], Raj Kumar HAJRA[3], Ezequiel ECHER[4]
[1]SRI International, [2]Utah State University, [3]Centre National de La Recherche Scientifique/ Université d'Orléans, [4]National Institute for Space Research

10:10 AS41-A029
AS41-D5-AM1-334-015
Water Soluble Inorganic Ions, OC and EC Characteristics of Winter Time Aerosols in N-NW India
Sudesh YADAV[1#], Sushil KUMAR[1+], Supriya NATH[1]
[1]Jawaharlal Nehru University

AS42 / Remote Sensing of Fires, Aerosols, Surface Pm2.5, and Aerosol Precursors

Fri - 11 Aug | MR308

Session Chair(s) Jun WANG, *University of Lowa*

08:30 AS42-A011
AS42-D5-AM1-308-001
The GaoFen-5 Satellite Mission for Air Quality Monitoring in China
Liangfu CHEN[1#+]
[1]Chinese Academy of Sciences

08:45 AS42-A001
AS42-D5-AM1-308-002
Invited
An Operational Method for Aerosol Optical Depth Retrieval Using High Temporal-Spatial Resolution Data of Geostationary Satellite Gaofen-4
Xingfeng CHEN[1+], Zhengqiang LI[1#], Weizhen HOU[1], Ying ZHANG[1], Shaoshuai ZHAO[2]
[1]Chinese Academy of Sciences, [2]Henan Polytechnic University

09:00 AS42-A009
AS42-D5-AM1-308-003
Invited
Remote Sensing Observation of Dust Storms and Thier Association with Kawasaki Disease Outbreaks
Hesham EL-ASKARY[1#+], Nick LAHYE[2], Eric LINSTEAD[1], William SPRIGG[3], Magdi YACOUB[4]
[1]Chapman University, [2]Jet Propulsion Laboratory, California Institute of Technology, [3]University of Arizona, [4]Imprerial College of London

09:15 AS42-A012
AS42-D5-AM1-308-004
Estimating Regional PM2.5 Through Sophisticated Correction on Satellite AOD: An Attempt of Combining Chemical Model and In Situ Meteorological Observations
Zifeng WANG[1#+], Liangfu CHEN[1], Minghui TAO[1], Jinhua TAO[1], Li SU[1]
[1]Chinese Academy of Sciences

09:30
AS42-D5-AM1-308-005
AS42-A020
Analysis of Aerosol Information Content in Simulated CAPI/TanSat Observation Over Land
Xi CHEN[1#+], Jun WANG[2], Yi LIU[1], Xiaoguang XU[2], Zhaonan CAI[1], Dongxu YANG[1]
[1]Chinese Academy of Sciences, [2]The University of Iowa

09:45
AS42-D5-AM1-308-006
AS42-A021
A Multi-Platform System for Understanding, Monitoring and Forecasting the Impact of Aerosol Pollutants in South-East Asia
Santo SALINAS[1#+], Li TAN[1], Daniel KALBERNATTER[1]
[1]National University of Singapore

10:00
AS42-D5-AM1-308-007
Invited
AS42-A010
Aerosol Microphysical Properties Retrievals from High Spectral Resolution Lidar Data
Xu LIU[1#+]
[1]NASA Langley Research Center

Session Chair(s)
Jun WANG, *University of Lowa*
Santo V. SALINAS, *National University of Singapore*

11:00
AS42-D5-AM2-308-008
AS42-A005
Improving Nocturnal Fire Detection with the VIIRS Day-Night Band
Jun WANG[1#+]
[1]The University of Iowa

11:15
AS42-D5-AM2-308-009
AS42-A004
Predicting Pollutant Emissions from Agricultural Waste Burning in Guangdong Province Using Neural Network
Xu FENG[1+], Tzung-May FU[1#], Hansen CAO[1]
[1]Peking University

11:30
AS42-D5-AM2-308-010
AS42-A013
Understanding Sources of Elemental Composition of Particulate Matter in the South China Sea During the 2011 Vasco Cruise
Miguel Ricardo HILARIO[1#+], Gabrielle Frances LEUNG[1], Annelle Raphayette CHUA[1], Melliza CRUZ[2], Maria Obiminda CAMBALIZA[1,2], Jeffrey REID[3], James SIMPAS[2], Nofel LAGROSAS[2,4], Donald BLAKE[5], Sherdon Niño UY[2]
[1]Ateneo de Manila University, [2]Manila Observatory, [3]Naval Research Laboratory, [4]Chiba University, [5]University of California, Irvine

11:45
AS42-D5-AM2-308-011
AS42-A019
Impact of Crop Residue Burning on Air Quality Over China Based on Satellite Data and Field Observations
Meng FAN[1#+], Liangfu CHEN[1], Shenshen LI[1], Mingmin ZOU[1], Jinhua TAO[1]
[1]Chinese Academy of Sciences

12:00
AS42-D5-AM2-308-012
Invited
AS42-A026
The Utilization of Satellite Observations for Improving Global Aerosol Forecasting
Sarah LU[1#+], Shih-Wei WEI[1], Xiaoyang ZHANG[2], Shobha KONDRAGUNTA[3], Sheng-Po CHEN[1], Qiang ZHAO[3], Jun WANG[3], Partha BHATTACHARJEE[3], Jeff MCQUEEN[3]
[1]University at Albany, State University of New York, [2]South Dakota State University, [3]National Oceanic and Atmospheric Administration

HS11 / Impacts and Consequences of Changing Climate and Landuse on Hydrology

Fri - 11 Aug | MR327

Session Chair(s) C. T. DHANYA, *Indian Institute of Technology Delhi*
Rajib MAITY, *Indian Institute of Technology Kharagpur*

08:30
HS11-D5-AM1-327-001
Invited
HS11-A011
Assessing Impacts of Land Use Land Cover Change on Hydrology of Ganga River Basin, India
Ashvani GOSAIN[1#+]
[1]Indian Institute of Technology Delhi

08:45
HS11-D5-AM1-327-002
HS11-A018
Impact of Climate Change on Streamflow in the Chaliyar River Basin in India Using HEC-HMS Model
Arya SOMAN[1], Chithra N.R.[1#+]
[1]National Institute of Technology Calicut

09:00
HS11-D5-AM1-327-003
HS11-A023
High Resolution Decadal Temperature Predictions Over the Continental United States for Impacts Assessment
Kaustubh SALVI[1#+]
[1]MIT Academy of Engineering

09:15
HS11-D5-AM1-327-004
HS11-A002
Analysis on the Relation of Volume Change and Area Change of Glaciers in the Tian Shan
Puyu WANG[1#+]
[1]Chinese Academy of Sciences

09:30
HS11-D5-AM1-327-005
HS11-A016
Effects of Landuse/Landcover Changes on Surface Water and Groundwater Interactions in Kosi River Basin, India.
Laveti N. V. SATISH[1#+], Subashisa DUTTA[1], Suresh A. KARTHA[1]
[1]Indian Institute of Technology Guwahati

09:45
HS11-D5-AM1-327-006
HS11-A010
A Comparison of Stationary and Nonstationary Rainfall Frequency Analysis Approaches for Maximum Daily Rainfall: A Case Study in Taiwan
Hung-Wei TSENG[1+], Chen-Min KUO[1], Tao-Chang YANG[1], Pao-Shan YU[1#]
[1]National Cheng Kung University

10:00
HS11-D5-AM1-327-007
HS11-A008
Landuse/ Land Cover Change Detection and Modelling in Bharathapuzha River Basin, Kerala, India
Epapra POLUGARI[1], Athira P[1#+], Sathish Kumar D[1]
[1]National Institute of Technology Calicut

10:15
HS11-D5-AM1-327-008
HS11-A028
Impact of Climate Variability and Land-Use Land-Cover Changes on River Flow Characteristics – A Case Study of the San Jacinto River Basin
Debayan MANDAL[1+], Venkatesh B.[1], Roshan Karan SRIVASTAV[1#]
[1]VIT University

Session Chair(s) A.K. GOSAIN, *Indian Institute of Technology Delhi*
Sonali PATTANAYAK, *Indian Institute of Science Bangalore*

11:00 HS11-A025
HS11-D5-AM2-327-009 Streamflow Modelling Considering Changing Climate and Watershed Characteristics
Invited Rajib MAITY[1#+]
[1]Indian Institute of Technology Kharagpur

11:15 HS11-A022
HS11-D5-AM2-327-010 Detection and Attribution of Climate Change Signals in Sri Lanka and Tamil Nadu
Invited Sonali PATTANAYAK[1#+], Ravi S NANJUNDIAH[1], D. Nagesh KUMAR[1]
[1]Indian Institute of Science

11:30 HS11-A014
HS11-D5-AM2-327-011 Economic Impacts of Flooding Under Climate and Socioeconomic Scenarios in Asia-Pacific Region: A Pilot Initiative in Bangladesh and Cambodia
Young-Joo KWAK[1#+], Yoichi IWAMI[2]
[1]International Centre for Water Hazard and Risk Management (ICHARM)/ UNESCO, [2]Public Works Research Institute

11:45 HS11-A013
HS11-D5-AM2-327-012 Integrating Freshwater Social-Ecological Systems Thinking Into Decision-Making: Application of the Freshwater Health Index
Kashif SHAAD[1#+], Derek VOLLMER[1], Helen REGAN[2], Nicholas SOUTER[1], Tracy FARREL[1], Sandy ANDELMAN[3]
[1]Conservation International, [2]University of California, Riverside, [3]Organization for Tropical Science

12:00 HS11-A020
HS11-D5-AM2-327-013 Effects of Climate Variability and Land Use/Cover Changes on Spatio-Temporal Variations of Streamflow and Sediment Load in the Loess Plateau, China
Guangyao GAO[1#+], Bojie FU[1], Murugesu SIVAPALAN[2]
[1]Chinese Academy of Sciences, [2]University of Illinois Urbana-Champaign

12:15 HS11-A026
HS11-D5-AM2-327-014 Modelling of Local Sea Level Rise and Its Projection in Future Under Climate Change
A. NAREN[1#+], Rajib MAITY[1]
[1]Indian Institute of Technology Kharagpur

HS12 / Urban Development and Climate Change

Fri - 11 Aug | MR327

Session Chair(s) Jinhui Jeanne HUANG, *Nankai University*
David HIGGITT, *University of Nottingham Ningbo China*

14:00 HS12-A006
HS12-D5-PM1-327-001 Evaluating Sponge City Potential and Performance in Ningbo, China
David HIGGITT[1#+], James GRIFFITHS[2], Ka Shun CHAN[3], Shuyang XU[3]
[1]Beijing Jiaotong University, [2]National Institute of Water and Atmospheric Research, [3]University of Nottingham Ningbo China

14:15 HS12-A010
HS12-D5-PM1-327-002
Research on Low Impact Development Simulation Based on PCSWMM
Wenjie CHEN[1+], Haichun WU[1], Guoru HUANG[1#]
[1]*South China University of Technology*

14:30 HS12-A009
HS12-D5-PM1-327-003
Hydrologic Analysis of Urban Mosquito Control for West Nile Virus Management
James LI[1#+]
[1]*Ryerson University*

HS13 / Dealing with Hydrological Extremes: Theory, Simulation, and Practice

Fri - 11 Aug | MR310

Session Chair(s) Wen-Cheng HUANG, *National Taiwan Ocean University*
Yasuto TACHIKAWA, *Kyoto University*

08:30 HS13-A001
HS13-D5-AM1-310-001
Estimating Probable Maximum Precipitation by Considering the Capability of the Combined Effect of Typhoon and Southwesterly Flow
Pao-Shan YU[1], Jau-Ming CHEN[2], Cheng-Chin LIU[3#+], Tao-Chang YANG[1], Chen-Min KUO[1], Yu-Cheng LIN[1]
[1]*National Cheng Kung University,* [2]*National Kaohsiung Marine University,* [3]*Central Weather Bureau*

08:45 HS13-A004
HS13-D5-AM1-310-002
Improving the Statistical Modeling of the TRMM Extreme Precipitation Monitoring System
Levon DEMIRDJIAN[1#+], George HUFFMAN[2], Yaping ZHOU[2]
[1]*Mr.,* [2]*NASA Goddard Space Flight Center*

09:00 HS13-A007
HS13-D5-AM1-310-003
Precipitation Frequency Analysis in Taiwan Based on AR5
Wen-Cheng HUANG[1], Tai-Yi CHU[1#+], Hsueh-Dien LEE[1]
[1]*National Taiwan Ocean University*

09:15 HS13-A010
HS13-D5-AM1-310-004
Study of Storm Return Period on Drainage Capacity Function in Taipei
Wen-Cheng HUANG[1+], Tai-Yi CHU[1#]
[1]*National Taiwan Ocean University*

09:30 HS13-A011
HS13-D5-AM1-310-005
Mixture Distribution Modeling for Annual Maximum Rainfalls
Ke-Sheng CHENG[1#+]
[1]*National Taiwan University*

09:45 HS13-A012
HS13-D5-AM1-310-006
Use of a Stochastic Weather Generator for Synthesizing Daily Rainfall Under Climate Change Scenarios
Li-Jen CHANG[1+], Hung-Wei TSENG[1], Chen-Min KUO[1], Tao-Chang YANG[1], Pao-Shan YU[1#]
[1]*National Cheng Kung University*

10:00
HS13-D5-AM1-310-007
HS13-A014
Identifying the Distributional Changes of Annual Daily Maximum Rainfall in Sri Lanka Using Quantile Regression
Sewwandhi CHANDRASEKARA[1+], Hyun-Han KWON[1#], Sumiya URANCHIMEG[1]
[1]Chonbuk National University

10:15
HS13-D5-AM1-310-008
HS13-A015
Statistical Evaluation of Record Maximum Flood Envelope Curves Derived from Record Maximum Areal Rainfall in Japan
Hidetaka CHIKAMORI[1#+]
[1]Okayama University

Session Chair(s)
Hidetaka CHIKAMORI, *Okayama University*
Ke-Sheng CHENG, *National Taiwan University*

11:00
HS13-D5-AM2-310-009
HS13-A002
Estimation of Floodwater Levels in a Delta River Network Under Upstream Inflow Change and Downstream Sea Level Rise
Xiaohong CHEN[1#+]
[1]Sun Yat-sen University

11:15
HS13-D5-AM2-310-010
HS13-A003
Validation of a Rainfall-Based Approach for Flood Frequencies and a Flood Risk Curve Estimations Using Super Multiple Ensemble Rainfall Data by d4PDF
Tomohiro TANAKA[1#+], Yasuto TACHIKAWA[1], Yutaka ICHIKAWA[1], Kazuaki YOROZU[1]
[1]Kyoto University

11:30
HS13-D5-AM2-310-011
HS13-A008
Prediction of Extreme Rainfall Events and Floods Under a Changing Climate Using d4PDF
Yasuto TACHIKAWA[1#], Kohei MIYAWAKI[1], Tomohiro TANAKA[1+], Yutaka ICHIKAWA[1], Kazuaki YOROZU[1]
[1]Kyoto University

11:45
HS13-D5-AM2-310-012
HS13-A020
Statistical Analysis of Differences Between Probability Distribution of the Annual Maximum Daily Discharge Derived from Multiple SSTs Scenarios of the d4PDF Datasets at the Indochinese Peninsula
Patinya HANITTINAN[1#+], Yasuto TACHIKAWA[1], Yutaka ICHIKAWA[1], Kazuaki YOROZU[1]
[1]Kyoto University

12:00
HS13-D5-AM2-310-013
HS13-A009
Incorporating Paleoreconstructed Data into Stochastic Streamflow Generators: A Case Study of Ping River, Thailand
Hung NGUYEN[1#+], Stefano GALELLI[1]
[1]Singapore University of Technology and Design

HS15 / Risk Assessment Related to Hydrological, Climatic, and Environmental Changes

Fri - 11 Aug | MR310

Session Chair(s) Hwa-Lung YU, *National Taiwan University*
Hao-Che HO, *National Taiwan University*
Tsang-Jung CHANG, *National Taiwan University*

14:00
HS15-D5-PM1-310-001
HS15-A007
Spatiotemporal Risk Assessment of Agricultural Irrigation Water Shortage in Taiwan
Chieh-Han LEE[1#+], Hwa-Lung YU[1]
[1]*National Taiwan University*

14:15
HS15-D5-PM1-310-002
HS15-A004
Characteristics of Flood Inundation Under Future Climate in the Pampanga River Basin, Philippines
Mamoru MIYAMOTO[1#+], Tomoki USHIYAMA[2,3], Yoichi IWAMI[2]
[1]*International Center for Water Hazards and Risk Management (ICHARM),* [2]*Public Works Research Institute,* [3]*National Graduate Institute for Policy Studies*

14:30
HS15-D5-PM1-310-003
HS15-A009
Contribution of Multi-Model Combination to Streamflow Hindcasting by Empirical and Conceptual Models
Hao-Che HO[1#+]
[1]*National Taiwan University*

IG04 / General Session

Fri - 11 Aug | MR330

Session Chair(s) Kazuhisa GOTO, *Tohoku University*
Anawat SUPPASRI, *Tohoku University*

08:30 IG04-A010
IG04-D5-AM1-330-008
Atmospheric Layer Structure and Precipitation Observed by the Multifrequency Technique Implemented on the Chung-Li Radar in Taiwan
Jenn-Shyong CHEN[1#+], Tsai SHIH-CHIAO[2], Yen-Hsyang CHU[3], Chin-Lung SU[3]
[1]China Medical University, [2]National Defense University, [3]National Central University

08:45 IG04-A024
IG04-D5-AM1-330-009
Responses to Climate Change, Resilience in the Mid-Latitudes Region and Specifics for Agro-Ecosystems
Menas KAFATOS[1#+], Seung Hee KIM[1], Chul-Hee LIM[2], Woo-Kyun LEE[2]
[1]Chapman University, [2]Korea University

09:00 IG04-A009
IG04-D5-AM1-330-010
Analysis of Daily Precipitation Data to Determine the Length of Dry and Wet Season by Maximal Penalized F Test
Gunardi GUNARDI[1#+], Fajar ADI-KUSUMO[1], Herni UTAMI[1], Irwan ENDRAYANTO ALUICIUS[1]
[1]Universitas Gadjah Mada

09:15 IG04-A026
IG04-D5-AM1-330-011
Crop Yield Reduction Over Vietnam Due to Climate Change – An Assessment of Food Security
Ze JIANG[1#+], Srivatsan RAGHAVAN[1], Jina HUR[1], Yabin SUN[1], Shie-Yui LIONG[1]
[1]National University of Singapore

09:30 IG04-A030
IG04-D5-AM1-330-012
The Joint Analysis of the Dynamics of the Ionosphere Parameters and Cosmic Rays During Periods of Increased Solar Activity
Oksana MANDRIKOVA[1], Yury POLOZOV[1#+], Timur ZALYAEV[1], Dmitry BAISHEV[2], Boris SHEVTSOV[1]
[1]Far Eastern Branch of Russian Academy of Sciences, [2]Siberian Branch of the Russian Academy of Sciences

09:45 IG04-A028
IG04-D5-AM1-330-013
Towards Improvement of Grey Water Footprint Assessment: With an Illustration for Global Maize Cultivation
Hong YANG[1#+], Wenfeng LIU[2]
[1]Swiss Federal Institute of Aquatic Science and Technology, [2]Eawag, Swiss Federal Institute of Aquatic Science and Technology

OS05 / Interactions in the Freezer: the Complex Roles of the Ocean, Ice, and Atmosphere in the Polar Regions

Fri - 11 Aug | MR329

Session Chair(s) Robin ROBERTSON, *UNSW Canberra*
Xiaochun WANG, *Nanjing University of Information Science and Technology*

14:00
OS05-D5-PM1-329-001
Invited

OS05-A009
Seasonal and Interannual Variability of the Sea Ice and Oceanic Circulation in the Bering Sea
Changming DONG[1,2#+]
[1]Nanjing University of Information Science & Technology, [2]University of California, Los Angeles

14:15
OS05-D5-PM1-329-002

OS05-A004
Variabilities of Arctic Sea Ice Cover and Thickness with Interactions Between Sea Ice and Open Water
Byoung Woong AN[1#+], Hyomee LEE[2], Pilhun CHANG[2], Kiryong KANG[2]
[1]National Institute of Meteorological Sciences, [2]Korea Meteorological Administration

14:30
OS05-D5-PM1-329-003

OS05-A002
Intensification and Expansion in the Southern Hemisphere Storm Tracks
Fei HUANG[1#+], Rongwang ZHANG[1]
[1]Ocean University of China

14:45
OS05-D5-PM1-329-004

OS05-A010
Tidal Propagation and Amplification in the Bransfield Strait, Antarctica: An Unstructured Grid Ocean Modelling Study
Chai Heng LIM[1#+], Karsten LETTMANN[2], Joerg-Olaf WOLFF[2], Azizan Abu SAMAH[1], Sheeba Nettukandy CHENOLI[1]
[1]University of Malaya, [2]University of Oldenburg

15:00
OS05-D5-PM1-329-005

OS05-A003
Modeling Tides and Their Impact on Ocean Circulation Near Pine Island Bay, West Antarctica
Xiaochun WANG[1#+], Yafei CHEN[1], Michale SCHODLOK[2], Dimitris MENEMENLIS[3], C.K. SHUM[4], Robin ROBERTSON[5]
[1]Nanjing University of Information Science & Technology, [2]University of California, Los Angeles, [3]Jet Propulsion Laboratory, California Institute of Technology, [4]Ohio State University, [5]University of New South Wales

15:15
OS05-D5-PM1-329-006

OS05-A001
The Dependence of Ice Shelf Melt and Cavity Circulation on Topography and the Critical Latitude for Pine Island Glacier
Robin ROBERTSON[1#+]
[1]University of New South Wales

OS07 / General and Multidisciplinary Oceanography

Fri - 11 Aug | MR328

Session Chair(s) Yuping GUAN, *Chinese Academy of Sciences*

08:30
OS07-D5-AM1-328-001
OS07-A038
An Introduction for International Cooperative Research Program
Xuefa SHI[1#+], Jianjun ZOU[1], Shengfa LIU[1]
[1]State Oceanic Administration

08:45
OS07-D5-AM1-328-002
OS07-A011
Introduction of a New Satellite-Derived Air-Sea Flux Data Set: J-OFURO3
Hiroyuki TOMITA[1#+], Shinichirou KAKO[2], Tsutomu HIHARA[3], Masahisa KUBOTA[4], Kunio KUTSUWADA[4]
[1]Nagoya University, [2]Kagoshima University, [3]Japan Agency for Marine-Earth Science and Technology, [4]Tokai University

09:00
OS07-D5-AM1-328-003
OS07-A028
Paleomagnetic Study of the Cenozoic Strata in the South China Sea Basin
Xixi ZHAO[1,2#+], Huaichun WU[3], Wei ZHANG[2], Weiwei CHEN[2], Wei YUAN[2]
[1]University of California Santa Cruz, [2]Tongji University, [3]China University of Geosciences

09:15
OS07-D5-AM1-328-004
OS07-A031
Remote Forcing of Winter Cooling in the Arabian Sea: Implications on NE Monsoon
Shital GODAD[1#+], Champoungam PANMEI[1], Divakar NAIDU[1]
[1]National Institute of Oceanography

09:30
OS07-D5-AM1-328-005
OS07-A017
The Role of Ocean in the Impact of Dust Reduction on Climate
Yonggang LIU[1#+], Ming ZHANG[1], Zhengyu LIU[2]
[1]Peking University, [2]University of Wisconsin-Madison

09:45
OS07-D5-AM1-328-006
Invited
OS07-A024
Geochemical Constraints on the Origin of Hydrothermal Sediments in the Middle Okinawa Trough
Shouye YANG[1#+], Hebib SHAO[1], Di CAI[1]
[1]Tongji University

10:00
OS07-D5-AM1-328-007
OS07-A025
Geochemical Evidence for the Initiation of the Mekong River in the Late Miocene
Peter CLIFT[1#+], Chang LIU[1], Richard MURRAY[2], Jerzy BLUSZTAJN[3], Thomas IRELAND[2], Shiming WAN[4], Weiwei DING[5]
[1]Louisiana State University, [2]Boston University, [3]Woods Hole Oceanographic Institution, [4]Chinese Academy of Sciences, [5]State Oceanic Administration

OS11 / Observations and Modeling of Physical, Chemical, and Biological Processes in the Southern Ocean

Fri - 11 Aug | MR329

Session Chair(s) Jiping LIU, *University at Albany*
Jiuxin SHI, *Ocean University of China*

08:30
OS11-D5-AM1-329-001
Invited
OS11-A018
Research Of Ocean-ice Boundary Interaction And Change Around Antarctica (Robotica): A Strategy To Explore Ice-ocean Interactions In East Antarctica
Shigeru AOKI[1#+], Takeshi TAMURA[2]
[1]Hokkaido University, [2]National Institute of Polar Research

08:50
OS11-D5-AM1-329-002
Invited
OS11-A005
Ocean-Driven Thinning Enhances Iceberg Calving and Retreat of Antarctic Ice Shelves
Xiao CHENG[1#+], Yan LIU[1], John MOORE[1], Tian LI[1]
[1]Beijing Normal University

09:10
OS11-D5-AM1-329-003
Invited
OS11-A013
Impacts of Open-Ocean Deep Convection in the Weddell Sea on Coastal and Bottom Water Temperature
Zhaomin WANG[1#+]
[1]Hohai University

09:30
OS11-D5-AM1-329-004
OS11-A019
Influences of Sea Ice, Polynyas and Ice Shelf on the Shelf Water in Prydz Bay, Antarctica
Jiuxin SHI[1#+], Yongming SUN[1], Guijun GUO[2], Fubin LIU[1], Yaoyao CHENG[1], Yutian JIAO[1]
[1]Ocean University of China, [2]State Oceanic Administration

09:45
OS11-D5-AM1-329-005
OS11-A003
A Southern Ocean and Antarctica Modeling System for Operational Forecasting and Climate Prediction
Jiping LIU[1#+], Shiming XU[2], Yunfei ZHANG[3], Mirong SONG[1]
[1]Institute of Atmospheric Physics, Chinese Academy of Sciences, [2]Tsinghua University, [3]National Marine Environmental Forecasting Center

10:00
OS11-D5-AM1-329-006
OS11-A025
Interannual Sea Level Change Off the Antarctic Coast from Satellite Gravimetry and Altimetry and Correlation with Recent ENSO Events
Jifeng HUANG[1#+], Jin LI[2], Guangxue LI[1], Dong DING[1]
[1]Ocean University of China, [2]Shanghai Astronomical Observatory of Chinese Academy of Sciences

10:15
OS11-D5-AM1-329-007
OS11-A021
Wind, Tidal, and Geothermal Mixing on the Heard Island Plateau During Heobi
Paul HARTLIPP[1#+], Robin ROBERTSON[1]
[1]University of New South Wales

Session Chair(s) Oscar SCHOOLED, *Rutgers University*

11:00 OS11-A024
OS11-D5-AM2-329-008 Observing Southern Ocean Ecosystems and the Need for Benchmarking in 2022 to Support Assessments of Change
Invited
Andrew CONSTABLE[1#+], Oscar SCHOFIELD[2], Sebastiaan SWART[3], Anna WAHLIN[3], Andrew CONSTABLE[1]
[1]Australian Antarctic Division, [2]Rutgers University, [3]University of Gothenburg

11:20 OS11-A023
OS11-D5-AM2-329-009 Phytoplankton Dynamics Associated with Shifting Trends in Sea Ice
Oscar SCHOFIELD[1#+]
[1]Rutgers University

11:35 OS11-A020
OS11-D5-AM2-329-010 Development and Application of Fully Automatic Underway Systems for Observation of Climate-Sensitive Chemical Species
Liyang ZHAN[1#+]
[1]Third institute of oceanography, State Oceanic Administration

OS21 / Western Boundary Currents, Eddies and Continental Shelf Processes

Fri - 11 Aug | MR328

Session Chair(s) Ruoying HE, *North Carolina State University*

11:00 OS21-A001
OS21-D5-AM2-328-001 A Review of Cross-Shelf Exchanges Between the East Australian Current and the Southeast Queensland Marine Coastal Zone
Joachim RIBBE[1#+], Mochamad Furqon AZIS ISMAIL[1]
[1]University of Southern Queensland

11:15 OS21-A002
OS21-D5-AM2-328-002 Cross-Shelf Exchanges Due to Upwelling Off Southeast Queensland, Australia
Mochamad Furqon AZIS ISMAIL[1,2#+], Joachim RIBBE[1]
[1]University of Southern Queensland, [2]Indonesian Institute of Sciences

11:30 OS21-A004
OS21-D5-AM2-328-003 Observed Characteristics of Mesoscale Eddies in the Southwest Pacific
Lydia KEPPLER[1], Sophie CRAVATTE[2], Alexis CHAIGNEAU[2], Awnesh SINGH[1#+]
[1]The University of the South Pacific, [2]Institute for Development Research (IDR)

11:45 OS21-A005
OS21-D5-AM2-328-004 The Seasonal and Interannual Variability and Features of the Western Bay of Bengal Boundary Currents from 2006 to 2012 by Regional Ocean Modeling System
Sumit DANDAPAT[1#], Arun CHAKRABORTY[1+], Kuttippurath JAYANARAYANAN[1]
[1]Indian Institute of Technology Kharagpur

12:00 OS21-A007
OS21-D5-AM2-328-005 Circulation Physics in Vorticity Equaitons
Chiwing HUI[1#+], Jianping GAN[1]
[1]The Hong Kong University of Science and Technology

12:15
OS21-D5-AM2-328-006
OS21-A006
Effects of Koshu Seamount on the Development of Baroclinic Instability Leading to the Kuroshio Large Meander
Yuki TANAKA[1#+], Toshiyuki HIBIYA[1]
[1]The University of Tokyo

Session Chair(s) Jianping GAN, *Hong Kong University of Science & Technology*

14:00
OS21-D5-PM1-328-007
OS21-A012
Is Vertical Velocity Related to Eddy Distortion?
Gabriela SEMOLINI PILO[1,2#+], Peter OKE[1], Tatiana RYKOVA[1], Richard COLEMAN[2], Ken RIDGWAY[1]
[1]Commonwealth Scientific and Industrial Research Organisation (CSIRO), [2]University of Tasmania

14:15
OS21-D5-PM1-328-008
OS21-A014
Particulate Organic Carbon Fluxes Triggered by Mesoscale Eddies in the Northern South China Sea
Yung-Yen SHIH[1#+], Chin-Chang HUNG[2]
[1]Republic of China Naval Academy, [2]National Sun Yat-sen University

14:30
OS21-D5-PM1-328-009
OS21-A015
Influences of Changes in the East Australian Current on Migrating Humpback Whales, Megaptera Novaeangliae, in Queensland, Australia
Joshua REINKE[1#+], Charles LEMCKERT[1,2], Olaf MEYNECKE[1]
[1]Griffith University, [2]University of Canberra

14:45
OS21-D5-PM1-328-010
OS21-A013
Processes Driving Exchange at a Region with Confluent West Boundary Current and Shelf/Slope Waters
Ruoying HE[1#+]
[1]North Carolina State University

PS08 / Juno's Exploration of Jupiter

Fri - 11 Aug | MR331

Session Chair(s) Jack CONNERNEY, *NASA Goddard Space Flight Center*
Paul HARTOGH, *Max Planck Institute for Solar System Research*

08:30
PS08-D5-AM1-331-001
PS08-A013
Overview of Juno's Results at Jupiter
Scott BOLTON[1#+]
[1]Southwest Research Institute

08:45
PS08-D5-AM1-331-002
PS08-A011
Juno's Determination of Jovian Water is Crucial to Understanding Jupiter's Formation Environment
Jonathan LUNINE[1#+], Scott BOLTON[2], Ravit HELLED[3], Andrew INGERSOLL[4], Michael JANSSEN[5], Steven LEVIN[5], Sushil ATREYA[6]
[1]Cornell University, [2]Southwest Research Institute, [3]University of Zurich, [4]California Institute of Technology, [5]Jet Propulsion Laboratory, California Institute of Technology, [6]University of Michigan

09:00
PS08-D5-AM1-331-003
PS08-A010
Preliminary Results on Jupiter's Atmosphere Using the Juno Microwave Radiometer
Michael JANSSEN[1#+], Scott BOLTON[2], Steven LEVIN[1], Michael ALLISON[3], Sushil ATREYA[4], Amadeo BELOTTI[5], Shannon BROWN[1], Andrew INGERSOLL[6], Cheng LI[1], Virgil ADUMITROAIE[1], John ARBALLO[1], Laura JEWELL[1], Liming LI[7], Samuel GULKIS[1], Siddarth MISRA[1], Glenn ORTON[1], Tobias OWEN[8], Fabiano OYAFUSO[1], Daniel SANTOS-COSTA[2], Edwin SARKISSIAN[1], Paul STEFFES[5], Ross WILLIAMSON[1], Jonathan LUNINE[9]
[1]Jet Propulsion Laboratory, California Institute of Technology, [2]Southwest Research Institute, [3]Goddard Institute of Space Studies, [4]University of Michigan, [5]Georgia Institute of Technology, [6]California Institute of Technology, [7]University of Texas, [8]University of Hawaii, [9]Cornell University

09:15
PS08-D5-AM1-331-004
PS08-A006
Junocam's Imaging of Jupiter
Glenn ORTON[1#+], Candice HANSEN[2], Thomas MOMARY[1], Michael CAPLINGER[3], Michael RAVINE[3], John ROGERS[4], Gerald EICHSTAEDT[5], Sushil ATREYA[6], Andrew INGERSOLL[7]
[1]Jet Propulsion Laboratory, California Institute of Technology, [2]Planetary Science Institute, [3]Malin Space Science Systems, [4]British Astronomical Association, [5]Independent Scholar, [6]University of Michigan, [7]California Institute of Technology

09:30
PS08-D5-AM1-331-005
PS08-A003
An Overview of Juno Magnetometer Observations in the Jovian Magnetosphere
J. E. P. CONNERNEY[1#+], Ronald OLIVERSEN[1], Jared HALEKAS[1], Daniel GERSHMAN[1], Stavros KOTSIAROS[1], Gina DI BRACCIO[1], John JORGENSEN[2], Peter JORGENSEN[2], Jose M.G. MERAYO[2], Troelz DENVER[2], Mathias BENN[2], Jonas B. BJARNOE[2], Anastasia MALINNIKOVA[3], Jeremy BLOXHAM[4], Kimberly MOORE[4], Scott BOLTON[5], Steven LEVIN[6]
[1]NASA Goddard Space Flight Center, [2]Technical University of Denmark, [3]DTU Space, [4]Harvard University, [5]Southwest Research Institute, [6]Jet Propulsion Laboratory, California Institute of Technology

09:45
PS08-D5-AM1-331-006
PS08-A002
High Energy Particle Measurements from the Collaborative Campaigns of Juno's Radiation Monitoring Investigation
Heidi BECKER[1#+], John JORGENSEN[2], Troelz DENVER[2], Alberto ADRIANI[3], Alessandro MURA[3], Daniel SANTOS-COSTA[4], J. E. P. CONNERNEY[5], Scott BOLTON[4], Richard THORNE[6], Steven LEVIN[1], James ALEXANDER[1], Virgil ADUMITROAIE[1], Emily MANOR-CHAPMAN[1], Ingrid DAUBAR[1], Clifford LEE[1], Mathias BENN[2], Julia SUSHKOVA[2], Andrea CICCHETTI[3], Raffaella NOSCHESE[3]
[1]Jet Propulsion Laboratory, California Institute of Technology, [2]Technical University of Denmark, [3]National Institute for Astrophysics (INAF), [4]Southwest Research Institute, [5]NASA Goddard Space Flight Center, [6]University of California, Los Angeles

10:00
PS08-D5-AM1-331-007
PS08-A009
An Overview of Juno Waves Observations at Jupiter
William KURTH[1#], Masafumi IMAI[1+], George HOSPODARSKY[1], Sadie TETRICK[1], Donald GURNETT[1], Sheng-Yi YE[1], Philippe ZARKA[2], Philippe LOUARN[3], Frederic ALLEGRINI[4], Philip VALEK[4], Barry MAUK[5], Scott BOLTON[4], J. E. P. CONNERNEY[6], Steven LEVIN[7]
[1]The University of Iowa, [2]Paris Observatory, [3]Institut de Recherche en Astrophysique et Planétologie, [4]Southwest Research Institute, [5]Johns Hopkins University Applied Physics Laboratory, [6]NASA Goddard Space Flight Center, [7]Jet Propulsion Laboratory, California Institute of Technology

10:15
PS08-D5-AM1-331-008
PS08-A004
Juno Ultraviolet Spectrograph (Juno-UVS) Observations of Jupiter's Aurora
Thomas GREATHOUSE[1#+], G. Randy GLADSTONE[1], Maarten VERSTEEG[1], Vincent HUE[1], Denis GRODENT[2], Bertrand BONFOND[2], Michael DAVIS[1], Jean-Claude GERARD[2], Joshua KAMMER[1], Scott BOLTON[1], Steven LEVIN[3], John CONNERNEY[4]
[1]Southwest Research Institute, [2]University of Liege, [3]Jet Propulsion Laboratory, California Institute of Technology, [4]NASA Goddard Space Flight Center

10:30
PS08-D5-AM1-331-009
PS08-A012
Plasma Observations in Jupiter's Polar Magnetosphere from the Jovian Auroral Distributions Experiment on Juno
Robert EBERT[1#+], Frederic ALLEGRINI[1], Fran BAGENAL[2], Scott BOLTON[1], John CONNERNEY[3], Randy GLADSTONE[1], Thomas KIM[4], William KURTH[5], Steven LEVIN[6], Philippe LOUARN[7], Chad LOEFFLER[1], Barry MAUK[8], David MCCOMAS[9], Craig POLLOCK[10], Michelle RENO[1], Jamey SZALAY[1], Michelle THOMSEN[11], Scott WEIDNER[12], Rob WILSON[2], Jenna ZINK[4]
[1]Southwest Research Institute, [2]University of Colorado Boulder, [3]NASA Goddard Space Flight Center, [4]University of Texas at San Antonio/Southwest Research Institute, [5]The University of Iowa, [6]Jet Propulsion Laboratory, California Institute of Technology, [7]Institut de Recherche en Astrophysique et Planétologie (IRAP), [8]Johns Hopkins University Applied Physics Laboratory, [9]Princeton University, [10]Denali Scientific, [11]Planetary Science Institute, [12]Princeton Plasma Physics Laboratory

ST16 / The Large-scale Interplanetary Phenomena: Sources, Properties and Space Weather Effects

Fri - 11 Aug | MR309

Session Chair(s) Fang SHEN, *National Space Science Center, China*
Chenglong SHEN, *University of Science and Technology of China, China*

08:30
ST16-D5-AM1-309-001
Invited
ST16-A001
On the Relation Between Coronal and Interplanetary Flux Ropes Constrained by Solar Eruption Data
Nat GOPALSWAMY[1#+], Sachiko AKIYAMA[1,2], Seiji YASHIRO[2], Hong XIE[3]
[1]NASA Goddard Space Flight Center, [2]The Catholic University of America, [3]National Aeronautics and Space Administration (NASA)

08:50
ST16-D5-AM1-309-002
Invited
ST16-A018
Deciphering Twist Distribution in Magnetic Flux Rope
Rui LIU[1#+], Wensi WANG[1], Yuming WANG[1]
[1]University of Science and Technology of China

09:10
ST16-D5-AM1-309-003
Invited
ST16-A014
The Properties and Sources of Large-Scale Interplanetary Magnetic Flux Ropes via the Grad-Shafranov Reconstruction
Qiang HU[1#+], Jiong QIU[2]
[1]The University of Alabama in Huntsville, [2]Montana State University

09:30
ST16-D5-AM1-309-004
ST16-A009
Properties and Locations of Shocks Driven by Magnetic Clouds.
Mengjiao XU[1#+], Chenglong SHEN[1], Yuming WANG[1]
[1]University of Science and Technology of China

09:45
ST16-D5-AM1-309-005
Invited
ST16-A013
Understanding the Nature of Collision of CMEs and their Geoeffectiveness
Wageesh MISHRA[1#+], Yuming WANG[1], Nandita SRIVASTAVA[2]
[1]University of Science and Technology of China, [2]Udaipur Solar Observatory

Session Chair(s) Rui LIU, *University of Science and Technology of China, China*

11:00
ST16-D5-AM2-309-006
ST16-A016
Average Temporal Profiles of Interplanetary Parameters in CIR, Sheath and ICME
Yuri YERMOLAEV[1#+], Irina LODKINA[1], Michael YERMOLAEV[1], Natalia BORODKOVA[1]
[1]Russian Academy of Sciences

11:15
ST16-D5-AM2-309-007
Invited
ST16-A012
Modeling the Solar Energetic Particle Transport in the Background Solar Wind Obtained from MHD Model
Fang SHEN[1#+], Wenwen WEI[1], Zicai YANG[1], Lulu ZHAO[2]
[1]Chinese Academy of Sciences, [2]Florida Institute of Technology

11:35
ST16-D5-AM2-309-008
ST16-A007
High Speed Solar Wind Stream Forecast Using Coronal Hole Index Pch
Xuan BU[1], Bingxian LUO[1#+], Jiancun GONG[1], Siqing LIU[1]
[1]National Space Science Center of Chinese Academy of Sciences

11:50
ST16-D5-AM2-309-009

ST16-A004
Statistical Analysis and Verification of 3-Hourly Geomagnetic Activity Probability Predictions
Jingjing WANG[1#+]
[1]*National Space Science Center, Chinese Academy of Sciences*

12:05
ST16-D5-AM2-309-010

ST16-A011
The Geoeffectiveness of Stream Interaction Region During 1996-2015
Yutian CHI[1#+], Chenglong SHEN[1], Bingxian LUO[2], Yuming WANG[1]
[1]*University of Science and Technology of China,* [2]*National Space Science Center of Chinese Academy of Sciences*

12:20
ST16-D5-AM2-309-011

ST16-A017
The Influence of the Interplanetary Shocks on Properties of Turbulence in the Solar Wind
Maria RIAZANTSEVA[1#+], Vyacheslav BUDAEV[2], Lyudmila RAKHMANOVA[1], Natalia BORODKOVA[1], Yuri YERMOLAEV[1], Georgy ZASTENKER[1], Jana SAFRANKOVA[3], Zdenek NEMECEK[3], Alexander PITNA[3]
[1]*Russian Academy of Sciences,* [2]*National Research Center Kurchatov Institute,* [3]*Charles University in Prague*

SE02 / From Escape to Subduction: the Tectonics of Indochina

Fri - 11 Aug | MR311

Session Chair(s) Raymond RUSSO, *University of Florida*

08:30
SE02-D5-AM1-311-001
Invited

SE02-A013
Limited Tectonic Extrusion During the Indo-Asian Collision
Mian LIU[1,2#+]
[1]University of Missouri, [2]Chinese Academy of Sciences

08:45
SE02-D5-AM1-311-002

SE02-A010
3D Discrete Element Simulation of Faulting and Crustal Thickening During the India-Asia Collision
Liqing JIAO[1#+], Paul TAPPONNIER[1], Frederic Victor DONZE[2], Luc SCHOLTES[3], Yves GAUDEMER[4]
[1]Nanyang Technological University, [2]Université Joseph Fourier, [3]University of Lorraine, [4]Institut de Physique du Globe de Paris

09:00
SE02-D5-AM1-311-003

SE02-A006
Active Tectonics in Indochina and Tibet are a Consequence of Plate-Scale Forces on the Eurasian Plate
Candela GARCIA SANCHO[1], Magdala TESAURO[1], Rob GOVERS[1#+]
[1]Utrecht University

09:15
SE02-D5-AM1-311-004

SE02-A004
Joint Inversion of Crustal Structures: Implications for Deformation and Growth at Tibetan Plateau Margins
Xiaodong SONG[1#+], Yangfan DENG[2], Jiangtao LI[3], Lupei ZHU[4,5]
[1]University of Illinois U-C & Wuhan U, [2]Chinese Academy of Sciences, [3]University of Illinois at Urbana-Champaign, [4]Saint Louis University, [5]China University of Geosciences

09:30
SE02-D5-AM1-311-005

SE02-A003
Additional Seismic Hazard Along Transitional Sections of Megathrusts
Kevin P. FURLONG[1#+], Matthew HERMAN[1]
[1]Penn State University

09:45
SE02-D5-AM1-311-006

SE02-A005
Postseismic Deformation Following the 2015 Mw 7.8 Gorkha Earthquake and the Distribution of Brittle and Ductile Crustal Processes Beneath Nepal
James Daniel Paul MOORE[1#+], Hang YU[1], Chi-Hsien TANG[2], Teng WANG[1], Sylvain BARBOT[1], Dongju PENG[3], Sagar MASUTI[1], Justin DAUWELS[1], Ya-Ju HSU[2], Valere LAMBERT[1], Priyamvada NANJUNDIAH[1], Shengji WEI[1], Eric LINDSEY[1], Lujia FENG[1], Qiang QIU[1]
[1]Nanyang Technological University, [2]Academia Sinica, [3]Earth Observatory of Singapore

10:00
SE02-D5-AM1-311-007

SE02-A011
SKS Splitting Intensity Measurements and a Preliminary 3-D Model for Upper-Mantle Anisotropy Beneath South-East Asia
Sutatcha HONGSRESAWAT[1#+], Raymond RUSSO[2]
[1]Mahidol University, [2]University of Florida

SE11 / Earthquake Hydrology Geochemistry and Hydroseismology

Fri - 11 Aug | MR311

Session Chair(s) Yasuyuki KANO, *Kyoto University*

14:00 SE11-A004
SE11-D5-PM1-311-001
Hot Spring Anomalies Observed in Kumamoto Prefecture Associated with the 1946 Nankai Earthquake
Yasuyuki KANO[1#+]
[1]Kyoto University

14:15 SE11-A003
SE11-D5-PM1-311-002
Modeling Co-Seismic Water Level Response of the Confined-Aquifer Well During the Passage of the Rayleigh Waves
Narayan Prasad DEWANGAN[1#], M. F. QURESHI[2], Bhaskar CHANDRAKAR[3+]
[1]Sarguja University, [2]Government Polytechnic College, [3]Chhattisgarh Swami Vivekanand Technical University (CSVTU)

14:30 SE11-A002
SE11-D5-PM1-311-003
Seismic Response Of Hydraulic Structures
Bhaskar CHANDRAKAR[1#+], M.K. GUPTA[2], Narayan Prasad DEWANGAN[3], M. F. QURESHI[4]
[1]Chhattisgarh Swami Vivekanand Technical University (CSVTU), [2]Bhilai Institute of Technology, [3]Sarguja University, [4]Government Polytechnic College

SE15 / Promoting Geodetic and Geodynamic Applications of Static and Time-varying Gravimetry in Asia-oceania

Fri - 11 Aug | MR311

Session Chair(s) Dyah PANGASTUTI, *Badan Informasi Geospasial*

11:00 SE15-A010
SE15-D5-AM2-311-001
Gravity Measurements at Absolute Gravity Points in New Zealand
Yoichi FUKUDA[1#], Hiroshi TAKIGUCHI[2], Jun NISHIJIMA[3], Takahito KAZAMA[1+], Vaughan STAGPOOLE[4], Sergei GULYAEV[5], Tim NATUSCH[5], Matt AMOS[6]
[1]Kyoto University, [2]National Institute of Information and Communications Technology, [3]Kyushu University, [4]GNS Science, [5]Auckland University of Technology, [6]Land Information New Zealand

11:15 SE15-A003
SE15-D5-AM2-311-002
Absolute Gravity Changes Associated with Geodynamic Processes in Taiwan: Preliminary Result from 2004-2016 Measurements
Cheinway HWANG[1#+], Ricky KAO[1], Jeong Woo KIM[2], Kuo-En CHING[1], Frédéric MASSON[3], Wen-Chi HSIEH[4], Nicolas LE MOIGNE[5]
[1]National Chiao Tung University, [2]University of Calgary, [3]University of Strasbourg, [4]Center for Measurement Standards–Industrial Technology Research Institute, [5]Université Montpellier 2

11:30 SE15-A005
SE15-D5-AM2-311-003
Marine Gravity Anomaly from Satellite Altimetry (Case Study : Kalimantan and Sulawesi Waters - Indonesia)
Prayudha HARTANTO[1+], Safirotul HUDA[1], Widy PUTRA[1], Bagas TRIARAHMADHANA[1], Dyah PANGASTUTI[1#], Erfan Dany VARIANDY[1], Arisauna Maulidyan PAHLEVI[1], Cheinway HWANG[2]
[1]Badan Informasi Geospasial, [2]National Chiao Tung University

11:45
SE15-D5-AM2-311-004
SE15-A013
Gravity-Based Estimate of Specific Yield in Unconfined Aquifer Test
Kuan-Hung CHEN[1#+], Cheinway HWANG[1], Liang-Cheng CHANG[1]
[1]*National Chiao Tung University*

12:00
SE15-D5-AM2-311-005
SE15-A002
Precipitation-Driven Glacier Changes in Pamir and Hindu Kush Mountains
Qiuyu WANG[1], Shuang YI[2], Wenke SUN[1#+]
[1]*University of Chinese Academy of Sciences,* [2]*Hokkaido University*

12:15
SE15-D5-AM2-311-006
SE15-A001
Reconciled Satellite Observations of Recent Changes in Glacier Mass and Thickness in the High Mountain Areas in the Peripheral Tibetan Plateau
Qiuyu WANG[1+], Shuang YI[2], Wenke SUN[1#]
[1]*University of Chinese Academy of Sciences,* [2]*Hokkaido University*

IG Poster Presentations

Fri - 11 Aug, 14:00 - 15:30 | Summit

IG01-D5-PM1-P-014
IG01-A006
Drilling in the Right Place: GPR Reconstruction of Topography for Paleotsunami Research
Hiraku TAKEDA[1], Kazuhisa GOTO[1#+], James GOFF[2], Hideaki MATSUMOTO[3], Daisuke SUGAWARA[4]
[1]Tohoku University, [2]University of New South Wales, [3]Tohoku Gakuin University, [4]Museum of Natural and Environmental History

IG01-D5-PM1-P-015
IG01-A009
An Empirical Model to Estimate Wind Erosion from Construction Activities
Benli LIU[1#+], Jianjun QU[1]
[1]Chinese Academy of Sciences

IG01-D5-PM1-P-016
IG01-A012
Storm Surge Early Warning System in Eastern Visayas, Philippines Using ADCIRC + SWAN Through Parallel Computing
Christelle Anne DIVINA[1#+], Camille Grace BACISTER[1], Vena Pearl BONGOLAN[1]
[1]University of the Philippines Diliman

IG01-D5-PM1-P-017
IG01-A013
Interdisciplinary Approach to the Integrated Assessment of Multi-Hazard Risks for Coastal Systems
Valerii KULYGIN[1#+]
[1]Institute of Arid Zones Southern Scientific Center of the Russian Academy of Sciences

IG01-D5-PM1-P-018
IG01-A014
The Importance of Underground Three-Dimensional Model on Evaluating Risk of Earthquake Disaster
Ming-Chun KE[1,2#+], Yi-Kai LIN[1]
[1]National Science and Technology Center for Disaster Reduction, [2]National Taipei University of Technology

IG01-D5-PM1-P-019
IG01-A015
Using Earthquake Building Damage Data in Establishing Building Fragility Curves for Taiwan Seismic Risk Assessment
Ming-Kai HSU[1#+], Chung-Han CHAN[2], Yu-Ju WANG[3], Kuo-Fong MA[1], Thomas Chin-Tung CHENG[4], Siao-Syun KE[5]
[1]National Central University, [2]Nanyang Technological University, [3]Institute of Nuclear Energy Research, [4]Sinotech Engineering Consultants, Inc., [5]National Science and Technology Center for Disaster Reduction

IG01-D5-PM1-P-020
IG01-A020
Coulomb Stress Influence to 2016 Zaduo Earthquake Caused by 2010 Yushu Earthquake and Seismic Harzard Assessment on Surrounding Area
Wei XIONG[1#+]
[1]China Earthquake Administration

IG01-D5-PM1-P-021
IG01-A021
Tsunami Damage Estimation for Coastal Infrastructure in Macau Based on Damage Fragility Curves Derived from the 2011 Japan Tsunami
Constance Ting CHUA[1#+], Linlin LI[1], Adam SWITZER[1], Anawat SUPPASRI[2], Susanna JENKINS[1], Nigel WINSPEAR[3]
[1]Nanyang Technological University, [2]Tohoku University, [3]SCOR Global P&C

IG01-D5-PM1-P-022 IG01-A024
Understanding Underlying Uncertainties in Tsunami Loss and Risk Assessments: A Case Study of Building Effects on Inundation Estimates at Wellington CBD, New Zealand
Xiaoming WANG[1#+], William POWER[1], Christof MUELLER[1], Biljana LUKOVIC[1]
[1]*GNS Science*

IG01-D5-PM1-P-023 IG01-A025
Development of Historical Storm Surge Events Database for Better Understanding of Coastal Disaster Management in the Philippines
Joy SANTIAGO[1#+]
[1]*Nationwide Operational Assessment of Hazards (Project NOAH)*

IG01-D5-PM1-P-024 IG01-A027
Tsunami Inversion for Sea Surface Displacement Utilizing Far-Field Data, A Case of the 2011 Tohoku Earthquake
Tungcheng HO[1#+], Kenji SATAKE[1], Shingo WATADA[1]
[1]*The University of Tokyo*

IG01-D5-PM1-P-025 IG01-A032
Probability of Volcanic Ash Falls in Singapore Based on the Analysis of a Database of Volcanic Activities in South East Asia and Reviews of Literature Records
Olga BERGAL-KUVIKAS[1#+], Caroline BOUVET DE MAISONNEUVE[1]
[1]*Nanyang Technological University*

IG03-D5-PM1-P-011 IG03-A001
Modelling Dengue Disease with Climate Variables Using Geospatial Data for Vietnam and Philippines
Nga Thi Thanh PHAM[1#+], Tien Cong NGUYEN[1], Thi Thu Thuy NGUYEN[1]
[1]*Vietnam National Satellite Center*

IG03-D5-PM1-P-012 IG03-A004
A Multi-Temporal Cloud Detection Method Based on IHOT
Xihong CUI[1#+]
[1]*Beijing Normal University*

IG03-D5-PM1-P-013 IG03-A020
Climate- and Human-Induced Changes in Suspended Particulate Matter Over Lake Hongze on Short and Long Timescales
Hongtao DUAN[1#+]
[1]*Chinese Academy of Sciences*

IG03-D5-PM1-P-014 IG03-A021
Research on Using the Remote Sensing Image Interpret Ancient Channel
Xueping LIU[1#+], Hui DENG[1]
[1]*Peking University*

IG04-D5-PM1-P-014 IG04-A011
Diversity of Small Benthic Foraminifera on "X" Spot Ujungkulon, Banten Province, Indonesia
Ria FITRIANY[1#+], Lia JURNALIAH[1], Teuku Yan Waliana ISKANDARSYAH[1]
[1]*Padjadjaran University*

IG04-D5-PM1-P-015

IG04-A012

Study on Material Characteristics of Environment-Friendly Functional Industrial Minerals

Sung-Wook KIM[1#+], Eun-Kyeong CHOI[1], Jin-Hyeok LEE[1], Dae-Hong GO[1], Min-Soo KIM[1], Sung-Ho KIM[1], Jun-Yeol CHO[1]

[1]GI Co. Ltd.

IG04-D5-PM1-P-016

IG04-A013

High Adsorption and Thermal Conduction of Lightweight Feldspar Mortar for Construction Material

Sung-Wook KIM[1#+], Eun-Kyeong CHOI[1], Jin-Hyeok LEE[1], Dae-Hong GO[1]

[1]GI Co. Ltd.

IG04-D5-PM1-P-017

IG04-A014

A Basic Study on the Prediction of Ground Subsidence by the Effect of Soil Grain Size - Groundwater

Jong-Hyun LEE[1+], Woo-Seok KIM[1#], Yong BAEK[1], Jae-Hyung CHUNG[1]

[1]Korea Institute of Civil Engineering and Building Technology

IG04-D5-PM1-P-018

IG04-A017

Seasonal Prediction of Surface Air Temperature and Precipitation Using New Nonlinear Genetic Algorithm MME Strategies

Joong-Bae AHN[1#+], Bayasgalan GERELCHULUUN[1], Joon Lee LEE[1], Young Hyun KIM[1], Ha-Gyu JEONG[1]

[1]Pusan National University

IG04-D5-PM1-P-019

IG04-A022

Lessons Learnt from Sustainability Science Pilots Project Implementation in Selected UNESCO Sites in Asia-Pacific

Ai SUGIURA[1#+], Aulia RAHMAWATI[1], Trita KATRIANA[1], Sharizad SULAIMAN[1]

[1]UNESCO

IG04-D5-PM1-P-020

IG04-A023

Radiative Influence of Aerosols on Wheat Production Over Indo-Gangetic Plains of India

Geetika SONKAR[1+], R K MALL[1#]

[1]Banaras Hindu University

IG04-D5-PM1-P-021

IG04-A025

Projections of Agro-Climate Over Northeast Asia Under RCP Scenarios Simulated by WRF

Young Hyun KIM[1#+], Joong-Bae AHN[1], Kyo-Moon SHIM[2], Myung-Pyo JUNG[2], Joon Lee LEE[1], Bayasgalan GERELCHULUUN[1], Ha-Gyu JEONG[1]

[1]Pusan National University, [2]National Academy of Agricultural Science

IG04-D5-PM1-P-022

IG04-A031

Analysis of the Magnetic Data from the Network of Ground Stations During Periods of Increased Solar Activity and Magnetic Storms

Oksana MANDRIKOVA[1#+], Igor SOLOVIEV[1], Sergey KHOMUTOV[1], Dmitry BAISHEV[2], Kusumita ARORA[3], Lingala MANJULA[3], Phani SEKHAR[3], Yury POLOZOV[1]

[1]Far Eastern Branch of Russian Academy of Sciences, [2]Siberian Branch of the Russian Academy of Sciences, [3]National Geophysical Research Institute

IG05-D5-PM1-P-009 IG05-A002
Excitation of Seismic Waves by Two Types of Severe Storm Events: Hurricanes and Tornadoes
Annie VALOVCIN[1#+], Toshiro TANIMOTO[1]
[1]*University of California, Santa Barbara*

IG05-D5-PM1-P-010 IG05-A007
Strong Seasonal Variations and Significant Azimuthal Anisotropy of the Effective Microseisms Energy in Southwest China Inferred from Noise Cross-Correlation Functions
Weitao WANG[1#+], Baoshan WANG[1]
[1]*China Earthquake Administration*

IG05-D5-PM1-P-011 IG05-A008
Impact of Ocean Wave Climate on Double-Frequency Microseisms and Evaluation of Seismic Site Effect in Northern Mississippi, USA
Zhen GUO[1,2#+], Adnan AYDIN[2], Mei XUE[1]
[1]*Tongji University,* [2]*University of Mississippi*

IG05-D5-PM1-P-012 IG05-A010
Sensitivity of Alluvial Landscape Evolution on Climatic Variables
Kyungrock PAIK[1#+]
[1]*Korea University*

IG05-D5-PM1-P-013 IG05-A013
Characteristics of Seismic Noise on Ocean Islands and its Oceanographic Interpretation
Jianmin LIN[1#+], Donglu CHEN[1], Hong ZHENG[1]
[1]*Zhejiang Ocean University*

IG05-D5-PM1-P-014 IG05-A015
Nearshore Hydro-Morphodynamic Signatures After the Analysis of Ambient Seismic Noise Recorded Along the Shore
Frederic BOUCHETTE[1#+], Emmy Tsui-Yu CHANG[2], Li-Ching LIN[3], Benjamin FORES[1]
[1]*University of Montpellier,* [2]*National Taiwan University,* [3]*Academia Sinica*

IG05-D5-PM1-P-015 IG05-A016
Cenozoic Sedimentary Carbon Subduction: A Revised Budget
Peter CLIFT[1#+]
[1]*Louisiana State University*

IG06-D5-PM1-P-006 IG06-A002
Tsunami Hazard Assessment for the Arabian Gulf from Earthquakes and Coastal Landslides Using Detailed Topography / Bathymetry Data and Considering Tidal Effect
Anawat SUPPASRI[1#+], Panon LATCHAROTE[1], Khaled AL-SALEM[2], Tanuspong POKAVANICH[3], Yogeesha JAYARAMU[2], Abdullah AL-ENEZI[2], Shinji TODA[1], Fumihiko IMAMURA[1]
[1]*Tohoku University,* [2]*Kuwait Institute for Scientific Research,* [3]*Kasetsart University*

IG06-D5-PM1-P-007 IG06-A008
Web App Development for Natural Hazards Risk Analysis: A Focus on Startups in Thailand
Patcharavadee THAMARUX[1#], Natt LEELAWAT[2+], Masashi MATSUOKA[1], Fumihiko IMAMURA[3]
[1]*Tokyo Institute of Technology,* [2]*Chulalongkorn University,* [3]*Tohoku University*

IG10-D5-PM1-P-007

IG10-A002
Caspian Sea Level Change from Satellite Gravity and Altimeter Measurements
Jianli CHEN[1#+], Clark WILSON[1], Byron TAPLEY[1], Himanshu SAVE[1], Jean-Francois CRETAUX[2]
[1]*University of Texas at Austin,* [2]*Laboratory of Geophysical and Oceanographic Studies (LEGOS) / Centre National d'études Spatiales (CNES)*

IG10-D5-PM1-P-008

IG10-A005
Global Terrestrial Water Storage Changes and Connections to ENSO Events
Shengnan NI[1#+], Jianli CHEN[2], Clark WILSON[2], Jin LI[1], Xiaogong HU[3]
[1]*Shanghai Astronomical Observatory of Chinese Academy of Sciences,* [2]*University of Texas at Austin,* [3]*Chinese Academy of Sciences*

IG10-D5-PM1-P-009

IG10-A007
Estimation of Asymmetric Vertical Variation of Southern and Northern Hemisphere in Earth from Satellite Altimetry, GRACE and Argo Data Since 2003
Wei CHEN[1+], Min ZHONG[1#], Wei FENG[1], Yulong ZHONG[1], Wen-Bin SHEN[2]
[1]*Chinese Academy of Sciences,* [2]*Wuhan University*

IG10-D5-PM1-P-010

IG10-A012
Seismic Gravity Changes of the 2004 Sumatra-Andaman Earthquake and Static Gravity Anomaly
Yusaku TANAKA[1#+], Kosuke HEKI[1]
[1]*Hokkaido University*

IG10-D5-PM1-P-011

IG10-A013
Variations of the Argentine Gyre Observed in the Ocean Altimetry and Grace Time-Variable Gravity Measurements
Yao YU[1+], Benjamin Fong CHAO[2#], David GARCIA-GARCIA[3], Peng PENG[4], Zhicai LUO[1]
[1]*Wuhan University,* [2]*Academia Sinica,* [3]*University of Alicante,* [4]*Chinese Academy of Sciences*

IG10-D5-PM1-P-012

IG10-A014
Ellipsoidal Correction for GRACE Mascon Mass Changes Over Polar Regions
Jin LI[1#+], Jianli CHEN[2], Ziang LEE[1], Xiaogong HU[3]
[1]*Shanghai Astronomical Observatory of Chinese Academy of Sciences,* [2]*University of Texas at Austin,* [3]*Chinese Academy of Sciences*

IG11-D5-PM1-P-011

IG11-A002
Anti-Phase Variation of Hydrology and In-Phase Carbon Accumulations in Two Wetlands in Southern and Northern China Since the Last Deglaciation
Xuefeng YU[1#+]
[1]*Chinese Academy of Sciences*

IG11-D5-PM1-P-012

IG11-A008
Comparison of Different Methods to Estimate Soil Hydraulic Properties for Water Retention Curves
Pinnara KET[1#+], Chantha OEURNG[1], Aurore DEGRE[2]
[1]*Institute of Technology of Cambodia,* [2]*Gembloux Agro-Bio Tech*

IG11-D5-PM1-P-013

IG11-A016
What Drives Tropical Long-Term Hydroclimate Change?
Xianfeng WANG[1#+]
[1]*Nanyang Technological University*

IG11-D5-PM1-P-014
IG11-A018
Coral-Based Hydrological Variability in the Eastern Bay of Bengal During the Little Ice Age
Hong-Wei CHIANG[1#+]
[1]National Taiwan University

IG11-D5-PM1-P-015
IG11-A024
Abrupt Monsoonal Shifts Over the Precessional Cycles Documented in Yongxing Cave in China During the Antepenultimate Glacial Period
Yijia LIANG[1+], Shitao CHEN[1#], Zhenqiu ZHANG[1], Yongjin WANG[1]
[1]Nanjing Normal University

IG11-D5-PM1-P-016
IG11-A025
Multiple Analysis of Variation of Oxygen-Carbon Isotopes from a Holocene Stalagmite by EEMD Method
Shaohua YANG[1+], Shitao CHEN[1#], Yalan ZENG[1]
[1]Nanjing Normal University

IG12-D5-PM1-P-007
IG12-A003
Application of the GF-1 Remote Sensing Image in Field Geomorphology Teaching
Xueping LIU[1#+], Li-Ping ZHOU[1]
[1]Peking University

IG12-D5-PM1-P-008
IG12-A005
Outreach Education of Space Science in Taiwan
Chao-Yen CHEN[1#+], I-Te LEE[2,3], Jann-Yenq LIU[1]
[1]National Central University, [2]Central Weather Bureau, [3]National Taiwan University

IG15-D5-PM1-P-007
IG15-A007
Bias Analysis of BDS Broadcast Ephemeris
Jianhua ZHOU[1#+], Xiuqiang GONG[2], Yize ZHANG[3]
[1]Beijing Satellite Navigation Center, [2]Chinese Academy of Sciences, [3]Tongji University

IG15-D5-PM1-P-008
IG15-A010
An Improved Integrator for Orbit Propagation
Bingbing DUAN[1,2#+], Junping CHEN[1], Jiexian WANG[3]
[1]Chinese Academy of Sciences, [2]Technical University of Munich, [3]Tongji University

IG15-D5-PM1-P-009
IG15-A013
Estimation of GPS/GLONASS/GALILEO/BDS Real-Time Satellite Clock
Yize ZHANG[1#+], Junping CHEN[2], Jiexian WANG[1]
[1]Tongji University, [2]Chinese Academy of Sciences

IG19-D5-PM1-P-008
IG19-A008
On the Relationship Between the Monsoon Rainfall Revealed by the High-Resolution Daily Precipitation Product APHRODITE and Landslides in Nepal
Akiyo YATAGAI[1#+], Melanie FROUDE[2], David PETLEY[2], Ryutaro SUZUKI[1], Chiaki ANDO[1]
[1]Hirosaki University, [2]Sheffield University

IG21-D5-PM1-P-009
Invited
IG21-A001
Displacement Characteristics of CO2 Injected in Pore-Scale Porous Media
Qianlin ZHU[1#+]
[1]China University of Mining and Technology

IG21-D5-PM1-P-010

IG21-A003

Lifetime of Carbon Dioxide Included Micro-Nano Bubble in Shallow Aquifer and Chemical Reaction with CO2 and Sediments

Takato TAKEMURA[1#+], Shoichiro HAMAMOTO[2], Kenichiro SUZUKI[3], Koichi OKUZAWA[3]

[1]Nihon University, [2]The University of Tokyo, [3]Obayashi Corporation

IG21-D5-PM1-P-011
Invited

IG21-A007

Development Potential for Onshore CO2 Geological Storage in France

Isabelle CZERNICHOWSKI-LAURIOL[1#+], Pascal AUDIGANE[2], Anne-Gaelle BADER[2], Didier BONIJOLY[2], André BURNOL[2], Louis DE LARY DE LATOUR[2], Sébastien DUPRAZ[2], Hubert FABRIOL[2], Frédérick GAL[2], Marie GASTINE[3], Sandrine GRATALOUP[2], Christophe KERVÉVAN[2], Thomas LE GUÉNAN[2], Annick LOSCHETTER[2], Karine MICHEL[2], Rowena STEAD[2]

[1]CO2GeoNet / BRGM, [2]Bureau of Geological and Mining Research, [3]GEODENERGIES

IG21-D5-PM1-P-012
Invited

IG21-A008

The Effect of CO2 Injection Speed on CO2 Saturation and Differential Pore Pressure

Keigo KITAMURA[1#+], Hiroyuki HONDA[1], Hiroaki IKEMI[1], Yasuhiro MITANI[1]

[1]Kyushu University

IG21-D5-PM1-P-013

IG21-A011

Update on the China Australia Geological Storage of CO2 (CAGS) Project

Andrew FEITZ[1#+], Jiutian ZHANG[2], Xian ZHANG[2], Jessica GURNEY[1], Liling HUANG[1]

[1]Geoscience Australia, [2]The Administrative Centre for China's Agenda 21 (ACCA21)

IG21-D5-PM1-P-014

IG21-A013

Integrated Monitoring of CO2-EOR Demonstration Project at Yanchang Oilfield

Qi LI[1#+], Jianli MA[1], Xutao LU[1], Zhiyong NIU[1], Xiaochun LI[1]

[1]Chinese Academy of Sciences

IG21-D5-PM1-P-015

IG21-A015

South West Hub: Evaluating Geological Uncertainty for Commercial-Scale CCS

Linda STALKER[1#+], Dominique VAN GENT[2]

[1]Commonwealth Scientific and Industrial Research Organisation, [2]Western Australian Department of Mines and Petroleum

IG21-D5-PM1-P-016

IG21-A016

Stability Assessment of Hidden Faults at the Potential CO2-EWR Site

Qi LI[1#+], Zhiyong NIU[1], Xiaochen WEI[2], Xiaying LI[1], Jianli MA[1]

[1]Chinese Academy of Sciences, [2]Southwest Petroleum University

IG21-D5-PM1-P-017

IG21-A017

Hydrological Changes of Rocks Reacted in a Supercritical CO2–Water System

Masao SORAI[1#+]

[1]National Institute of Advanced Industrial Science and Technology

IG24-D5-PM1-P-005

IG24-A001

Sedimentological Characteristics and Seafloor Failure Offshore SW Taiwan

Sheng Ting HSU[1#+], Chih-Chieh SU[1], Huai-Houh HSU[2], Jing-Yi LIN[3], Jia-Jyun DONG[3]

[1]National Taiwan University, [2]Chienkuo Technology University, [3]National Central University

IG24-D5-PM1-P-006
IG24-A003
Anisotropy and Wave Splitting Analysis by Using the Integration of Linear and Circular Air-Gun Shooting Data in the Hydrate-Enriched Continental Slops, SW Taiwan
Yi-Chin LIN[1+], Jing-Yi LIN[1#]
[1]*National Central University*

IG24-D5-PM1-P-007
IG24-A006
Potential for SGD Induced Seafloor Liquefaction : A Case Study Offshore Southwestern Taiwan
Yao Li CHANG[1#+], Chih-Chieh SU[1]
[1]*National Taiwan University*

IG24-D5-PM1-P-008
IG24-A008
Modern Sedimentation and Extreme Events in the South China Sea
Yu-Huang CHEN[1#+], Chih-Chieh SU[1]
[1]*National Taiwan University*

IG24-D5-PM1-P-009
IG24-A010
Development of a Shear Vane for Evaluating Submarine Slope Stability
Huai-Houh HSU[1#+], Jia-Jyun DONG[2]
[1]*Chienkuo Technology University,* [2]*National Central University*

IG25-D5-PM1-P-004
IG25-A001
Climatic Changes During the Last 11,500 Years from Hamtah and Chattru Glaciers, Western Himalaya, India
Ruchika BAJPAI[1#+], Ratan KAR[1]
[1]*Birbal Sahni Institute of Palaeosciences*

IG25-D5-PM1-P-005
IG25-A008
High Resolution Multiproxy Climatic Record of Last ~1ka, A Study Based on Lake Sediments from Southern Madhya Pradesh of India
Kamlesh KUMAR[1#+], Anupam SHARMA[1], Shilpa PANDEY[1]
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IG25-D5-PM1-P-006
IG25-A010
Source of Sediment and Processes in the Lacustrine Environment of Schirmacher Oasis and Larsemann Hills, East Antarctica
Shabnam CHOUDHARY[1#+], Neloy KHARE[2]
[1]*Goa University,* [2]*Ministry of Earth Sciences*

IG25-D5-PM1-P-007
IG25-A011
Ree Geochemistry and 10Be Analysis of Arctic Ocean Sediments: A Proxy for Climate Change and its Possible Bearing to Tropical Climate
Pankaj KUMAR[1+], Jitendra PATNAIK[2], Neloy KHARE[3#], S. BALAKRISHNAN[4], Sundeep CHOPRA[1], Kanji LAL[1]
[1]*Inter-University Accelerator Centre,* [2]*Central University of Punjab,* [3]*Ministry of Earth Sciences,* [4]*Pondicherry University*

IG26-D5-PM1-P-009
IG26-A003
A Non-Hydrostatic Model for Landslide-Generated Waves: Application to the Chehalis Lake Rock Avalanche, BC, Canada
Pengfei SI[1#+], Xiping YU[1]
[1]*Tsinghua University*

IG26-D5-PM1-P-010
IG26-A010
The Law Governing Tropical Cyclone Movement
Kaiyue SHAN[1#+], Xiping YU[1]
[1]Tsinghua University

IG26-D5-PM1-P-011
IG26-A015
Concentric Traveling Ionosphere Disturbances Triggered by Super Typhoon Meranti (2016)
Min-Yang CHOU[1#+], Charles LIN[1], Jia YUE[2], Ho-Fang TSAI[1], Yang-Yi SUN[3], Jann-Yenq (Tiger) LIU[4], Chia-Hung CHEN[4]
[1]National Cheng Kung University, [2]Hampton University, [3]Kyushu University, [4]National Central University

IG27-D5-PM1-P-009
IG27-A004
Turbidity Inflenced by Landslides in the Xindan Catchment, Northen Taiwan
Shengchi LIN[1#+], Ching-Fang LEE[2], Ming-Chun KE[1,3]
[1]National Science and Technology Center for Disaster Reduction, [2]Sinotech Engineering Consultants, INC., [3]National Taipei University of Technology

IG27-D5-PM1-P-010
IG27-A005
Landslide Hazard Assessment of Mountainous Roads in Taiwan – Using High Resolution Dem and Numerical Simulation
Wei-Kai HUANG[1], Ching-Fang LEE[1], Lun-Wei WEI[1#+], Ting-Chi TSAO[1], Wei-Che LI[2], Chin-Lun WANG[3]
[1]Sinotech Engineering Consultants, INC., [2]Sinotech Engineering Consultants, Ltd., [3]Soil and Water Conservation Bureau

IG27-D5-PM1-P-011
IG27-A011
The Deformation and Accumulation Behavior of Simplified Dip Slope Model Using Centrifuge Testing and Discrete Element Modeling
Jheng-Yu HSIEH[1], Kun-Che LI[1], Wen-Chao HUANG[1#+], Wen-Yi HUNG[1], Chia-Hao HU[1]
[1]National Central University

IG27-D5-PM1-P-012
IG27-A013
Geophysical Investigation of Shallow Subsurface Fracture Distribution on the Accretionary Prism Off Southwest Taiwan
Win-Bin CHENG[1#+], Jing-Yi LIN[2], Shu-Kun HSU[2], Jia-Jyun DONG[2], Huai-Houh HSU[3]
[1]Jinwen university of science & technology, [2]National Central University, [3]Chienkuo Technology University

IG28-D5-PM1-P-009
IG28-A002
Rapid Land Cover Change in the Merang Kepahyang Peat Hydrological Region, South Sumatra, Indonesia Associated with the Peat Fires
Raden PUTRA[1+], Edy SUTRIYONO[1], Sabaruddin SABARUDDIN[1], Iskhaq ISKANDAR[1#]
[1]Sriwijaya University

IG28-D5-PM1-P-010
IG28-A003
Towards High Resolution Estimates of Surface Solar Radiation in East Asia from MTSAT Observations
Xiaolei NIU[1#+], Kun YANG[1], Wenjun TANG[1], Jun QIN[1]
[1]Chinese Academy of Sciences

IG28-D5-PM1-P-011 IG28-A004

The Estimation of Surface Solar Radiation Considering the Distortion of the Cloud Shadow on Complex Terrain

Xiaozhou XIN[1#+]

[1]*Chinese Academy of Sciences*

IG28-D5-PM1-P-012 IG28-A006

Assessment of Satellite Land Surface Albedo Based on Land Surface Parameters Validation System

Jianguang WEN[1#+], Xinwen LIN[1], Xiaodan WU[1], Baocheng DOU[1], Qing XIAO[1]

[1]*Chinese Academy of Sciences*

PS03-D5-PM1-P-013 PS03-A013
Statistical Similarities Between WSA-ENLIL+Cone Model and Maven In-situ Observations from November 2014 to March 2016
Christy LENTZ[1#+], Allison JAYNES[1], Dan BAKER[1], Ryan DEWEY[2], M. Leila MAYS[3], C. LEE[4], David A. BRAIN[1], Jasper HALEKAS[5]
[1]University of Colorado Boulder, [2]University of Michigan, [3]Catholic University of America, [4]University of California, Berkeley, [5]University of Iowa

PS03-D5-PM1-P-014 PS03-A016
Solar Wind Interaction with Mercury's Magnetosphere: Bepicolombo Science Targets
Go MURAKAMI[1#+], Masaki FUJIMOTO[1]
[1]Japan Aerospace Exploration Agency

PS03-D5-PM1-P-015 PS03-A020
Is Quasi-Adiabaticity Conserved During Substorm Dipolarization at Mercury?
Dominique DELCOURT[1#+], Helmi MALOVA[2], Lev ZELENYI[2]
[1]French National Centre for Scientific Research, [2]Space Research Institute of Russian Academy of Sciences

PS03-D5-PM1-P-016 PS03-A021
IMF Control of the Mercury's Magnetopause Location
Jun ZHONG[1#+], Yong WEI[1], Lihui CHAI[1], Zhaojin RONG[1], Weixing WAN[1], Jih-Hong SHUE[2]
[1]Chinese Academy of Sciences, [2]National Central University

PS03-D5-PM1-P-017 PS03-A022
The Magnetic Field Structure of Mercury's Magnetotail
Zhaojin RONG[1#+], Yuan DING[1], James SLAVIN[2], Jun ZHONG[1], Weijie SUN[1], Gangkai POH[2], Yong WEI[1], Lihui CHAI[1], Weixing WAN[1], Chao SHEN[3]
[1]Chinese Academy of Sciences, [2]University of Michigan, [3]Harbin Institute of Technology

PS03-D5-PM1-P-018 PS03-A023
3D Hybrid Simulation of the Heavy Ion Kinetic Effect in the Magnetosphere of Mercury
Lihui CHAI[1#+], Exner WILLI[2], Uwe MOTSCHMANN[2], Jun ZHONG[1], Yong WEI[1], Weixing WAN[1]
[1]Chinese Academy of Sciences, [2]Technische Universität Braunschweig

PS04-D5-PM1-P-013 PS04-A001
Surface Thermophysical Properties Investigation of the Potentially Hazardous Asteroid (99942) Apophis
Liang Liang YU[1#+], Jianghui JI[2], Wing-Huen IP[3]
[1]Macau University of Science and Technology, [2]Chinese Academy of Sciences, [3]National Central University

PS04-D5-PM1-P-014 PS04-A002
Thermal Behaviors of Apollo Basin Revealed by Microwave Sounder Data from Chang'e-2 Satellite
Zhiguo MENG[1#+], Zhanchuan CAI[2], Jinsong PING[3], Qingshuai WANG[1], Lilin XING[1], Yangang WU[1]
[1]Jilin University, [2]Macau University of Science and Technology, [3]Chinese Academy of Sciences

PS04-D5-PM1-P-015

PS04-A007
Evidence of Significant Rotational Non-LTE Effect in CO2 4.3um Spectra of PFS-MEX
Ladislav REZAC[1#+], Alexander KUTEPOV[2], Artem FEOFILOV[3]
[1]Max Planck Institute for Solar System Research, [2]NASA Goddard Space Flight Center, [3]Ecole Polytechnique

PS04-D5-PM1-P-016

PS04-A011
The Chirp Transform Spectrometer on JUICE-SWI
Paul HARTOGH[1#+]
[1]Max Planck Institute for Solar System Research

PS04-D5-PM1-P-017

PS04-A012
Solar System Objects as Prime Calibrators for Herschel/HIFI
Miriam RENGEL[1,2#+], David TEYSSIER[2], Michael MÜLLER[3], Willem JELLEMA[4], Raphael MORENO[5], Ian AVRUCH[4]
[1]Max Planck Institute for Solar System Research, [2]European Space Astronomy Centre, [3]Kapteyn Astronomical Institute, [4]University of Groningen, [5]Paris Observatory

PS04-D5-PM1-P-018

PS04-A016
Retrieving Temperature and Velocity Profiles of Comet 67P/Churyumov-Gerasimenko from MIRO/Rosetta Water Lines
David MARSHALL[1#+], Paul HARTOGH[1], Ladislav REZAC[1]
[1]Max Planck Institute for Solar System Research

PS04-D5-PM1-P-019

PS04-A018
Development of Radiative Transfer Simulation Including a Non-LTE Model for THz Observations of Ganymede's Atmosphere
Takayoshi YAMADA[1#+], Yasuko KASAI[2], Ladislav REZAC[3], Paul HARTOGH[3], Naohiro YOSHIDA[1]
[1]Tokyo Institute of Technology, [2]National Institute of Information and Communications Technology, [3]Max Planck Institute for Solar System Research

PS04-D5-PM1-P-020

PS04-A019
Mars Micro-Satellite for Terahertz Remote Sensing
Richard LARSSON[1#+], Yasuko KASAI[1], Takeshi KURODA[1], Hiroyuki MAEZAWA[2], Takeshi MANABE[2], Toshiyuki NISHIBORI[3], Shinichi NAKASUKA[4], Akifumi WACHI[4], Hideo SAGAWA[5]
[1]National Institute of Information and Communications Technology, [2]Osaka Prefecture University, [3]Japan Aerospace Exploration Agency, [4]The University of Tokyo, [5]Kyoto Sangyo University

PS05-13-D5-PM1-P-029

PS05-13-A002
Contribution to Martian Gravity Field from Chinese Mars Mission and EXO Mission
Zhengsong CHEN[1#+]
[1]Institute of Seismology

PS05-13-D5-PM1-P-030

PS05-13-A003
PSUP: A Planetary SUrface Portal
François POULET[1#+]
[1]National Center for Scientific Research / University of Paris-Sud

PS05-13-D5-PM1-P-031

PS05-13-A011
Mid-Latitude Dust Storms During Mars Dust Storm Season
Jing XIAO[1#+], Keith K. C. CHOW[1], Kwing Lam CHAN[1]
[1]Macau University of Science & Technology

PS05-13-D5-PM1-P-032

PS05-13-A012

Characteristic Features in Cloud-Top Temperature of Venus

Makoto TAGUCHI[1#+], Tetsuya FUKUHARA[1], Toru KOUYAMA[2], Takeshi IMAMURA[3], Takao M. SATO[4], Mao TAKAMURA[1], Takeru YAMADA[1], Masahiko FUTAGUCHI[1], Naomoto IWAGAMI[5], Makoto SUZUKI[4], Munetaka UENO[6], Mitsuteru SATO[7], George HASHIMOTO[8], Seiko TAKAGI[9], Masato NAKAMURA[4]

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PS05-13-D5-PM1-P-033

PS05-13-A014

K-Ar Dating System for Mars Lander Missions

Misa HORIUCHI[1#+], Manami HOSOKAWA[1], Ayumi KAWASHIMA[1], Megumi UNO[1], Yuichiro CHO[2], Shingo KAMEDA[1], Yayoi N. MIURA[3], Satoshi KASAHARA[3], Seiji SUGITA[3]

[1]Rikkyo University, [2]NASA Marshall Space Flight Center, [3]The University of Tokyo

PS05-13-D5-PM1-P-034

PS05-13-A017

Seasonal Variation of Ozone on Mars and its Relation to Water Vapor and Dust

Ashimananda MODAK[1#+], Varun SHEEL[1]

[1]Physical Research Laboratory

PS05-13-D5-PM1-P-035

PS05-13-A020

Numerical Evaluation of Sensor for Electric Field and Plasma Measurements in Upper Martian Ionosphere

Sanjeev MISHRA[1#+], Chandan KUMAR[1], Durga Prasad KARANAM[1], S.A. HAIDER[1]

[1]Physical Research Laboratory

PS05-13-D5-PM1-P-036

PS05-13-A024

Major Dust Storm on Mars - Development History and Atmospheric Waves

Huiqun WANG[1#+]

[1]Smithsonian Astrophysical Observatory

PS05-13-D5-PM1-P-037

PS05-13-A028

Precision of Brightness Temperature for Akatsuki LIR Observation on Orbit

Tetsuya FUKUHARA[1#+], Akane HAYASHITANI[1], Makoto TAGUCHI[1], Takeshi IMAMURA[2], Toru KOUYAMA[3], Takao M. SATO[4], George HASHIMOTO[5], Mitsuteru SATO[6], Masato NAKAMURA[4]

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PS05-13-D5-PM1-P-038

PS05-13-A031

4D Gridding of MRO-MCS Data for Easier Analysis and Visualization

Katsuyuki NOGUCHI[1#+], Mayu UEDA[1], Hiroo HAYASHI[2]

[1]Nara Women's University, [2]Fujitsu FIP Corporation

PS05-13-D5-PM1-P-039

PS05-13-A040

The Formational Process of Systematically Distributed Grooves on Phobos

Hiroshi KIKUCHI[1#+], Hideaki MIYAMOTO[1]

[1]The University of Tokyo

PS07-D5-PM1-P-016

PS07-A003

Shape of Titan from Cassini Radar Elevation Measurements and Implications for Interior Structure and Composition

Howard ZEBKER[1#+], Ying Qi WONG[1]

[1]Stanford University

PS07-D5-PM1-P-017 PS07-A016
Ray Craters on Callisto and Ganymede: Implications for Apex-Antapex Cratering Asymmetry on Jovian Satellites
Luyuan XU[1#+], Hideaki MIYAMOTO[1], Naoyuki HIRATA[2]
[1]The University of Tokyo, [2]Kobe University

PS07-D5-PM1-P-018 PS07-A018
The Formation of Dark Ray Craters on Ganymede
Charles HIBBITTS[1#+], Benjamin WING[1]
[1]Johns Hopkins University Applied Physics Laboratory

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Gas Tori of the Outer Planets Including the Pluto-Charon System
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Exhibitors & Booth Locations

AOGS 2017 Geosciences World Community Exhibition

Exhibitor Move In
07 August, Monday | Summit Room, Level 3 | 15:00 to 18:00

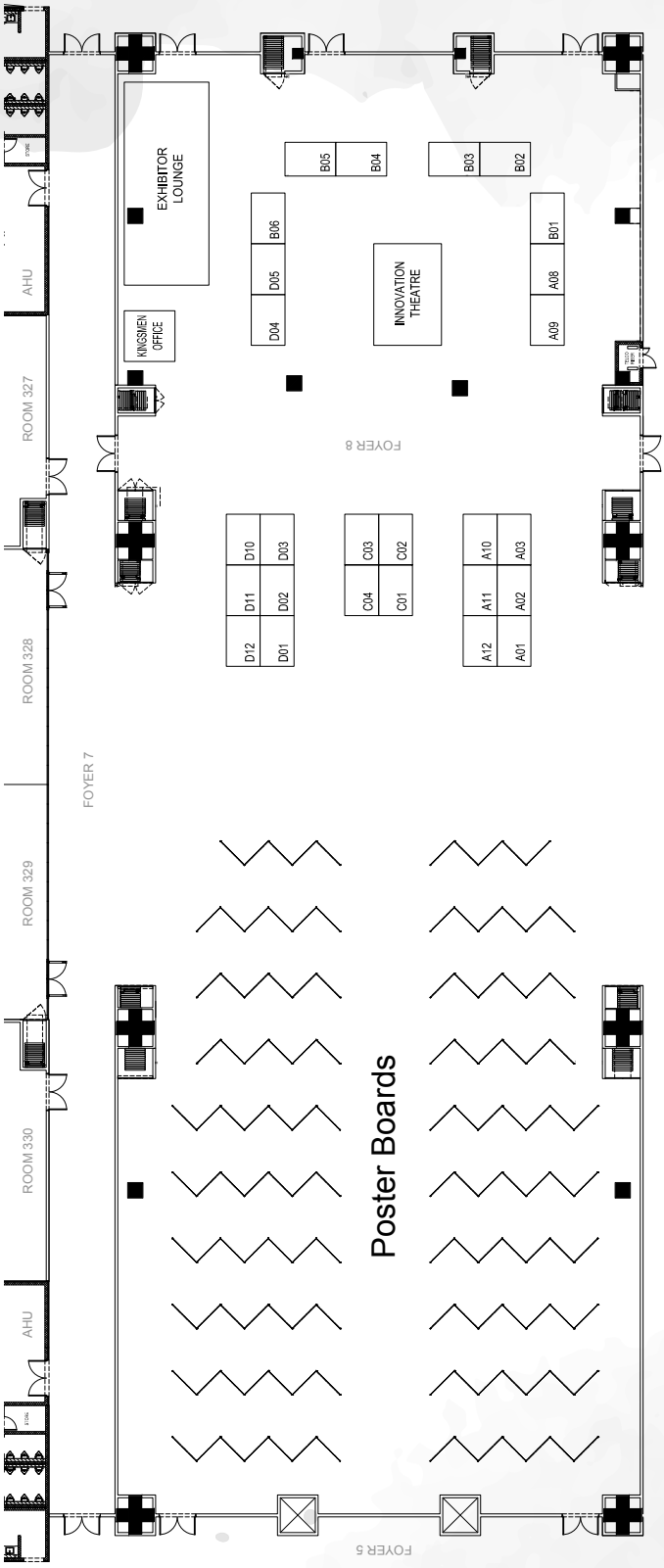
Welcome Reception / Exhibition Opens
07 August, Monday | Summit Room, Level 3 | 18:30 to 20:30

All Day Exhibition
08 to 11 August, Tuesday to Friday | Summit Room, Level 3 | 09:30 to 18:00

Exhibitor Move Out
11 August, Friday | Summit Room, Level 3 | 18:00 to 19:00

S/N	Organisation	Booth No.
1	Asia Oceania Geosciences Society	Registration Area
2	Beta Analytic Inc.	B01
3	COSPAR 2018	A03
4	Earth Observatory of Singapore, Nanyang Technological University	A12
5	Earth Science Research Promotion Center & TAO Journal	B03
6	Earth, Planets and Space	D04
7	European Geosciences Union (EGU)	D03
8	Gangwon Convention & Visitors Bureau	D11
9	Hawaii Convention Center	D12
10	Isotopx Flexisolve	B04
11	Japan Geoscience Union (JpGU)	B02
12	Kinemetrics, Inc.	A08
13	Korean Meteorological Society	B06
14	LI-COR Biosciences	D05
15	METER Group, Inc.	A09
16	Nankai University	A02
17	NASA	C01 - C04
18	Picarro, Inc	A11
19	Royal Society Publishing	A01
20	Skye Instruments Ltd	B05
21	Society of Exploration Geophysicists (SEG)	D10
22	Springer Nature	A10
23	Taiwan Earthquake Research Center (TEC)	D01
24	UGT - Umwelt-Geräte-Technik GmbH	D02

Exhibition Floor Plan
(Summit Room, Level 3)



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Asia Oceania Geosciences Society is an international society established in Singapore since 2003, formed by like-minded individuals to promote geophysical science for the benefit of humanity in Asia and Oceania. The Society participates actively and advances in this field through organizing an annual international conference and publication of international journals and developing close connections with local and regional societies such as European Geosciences Union (EGU), American Geophysical Union (AGU), Japan Geoscience Union (JpGU) and International Union of Geodesy and Geophysics (IUGG).

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A12
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The Earth Observatory of Singapore is Singapore's main hub for conducting research on geohazards, focusing on tectonics, volcanoes, and climate change in and around Southeast Asia. The Observatory is committed to acquiring knowledge of these natural hazards, passing this information on to affected communities by contributing to forecasts of such natural phenomena and helping them adapt to these environmental challenges.

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The open access journal Earth, Planets and Space (EPS) presents scientific articles in the earth and planetary sciences, in particular, geomagnetism, aeronomy, space science, seismology, volcanology, geodesy, and planetary science. EPS also welcomes articles in new and inter-disciplinary subjects, including instrumentation.

D03
European Geosciences Union (EGU)
European Geosciences Union EGU Executive Office Luisenstrasse 37
Munich Germany

Tel: +49 (0) 89 2180 6549 | Fax: +49 (0) 89 2180 17855
Email: executive-secretary@egu.eu
Web: www.egu.eu

The European Geosciences Union (EGU) is, with over 12,000 members, Europe's premier geosciences union. It is dedicated to the pursuit of excellence in the earth, planetary, and space sciences for the benefit of humanity. The EGU has a current portfolio of 17 diverse Open Access journals and its annual General Assembly is the largest European geosciences event.

D11
Gangwon Convention & Visitors Bureau
5, Jungang-ro, Chuncheon-S1, Gangwon-do South Korea

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D12
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B04
Isotopx Flexisolve
194 Atterbury Ave, Painesville, Ohio, 44236 USA

Tel: +1 4406558994
Email: steve.shuttleworth@isotopx.com
Web: www.isotopx.com

Isotopx manufactures a range of thermal ionization and noble gas mass spectrometers for analysis in isotope geochemistry. Flexisolve provides a number of products and solutions for Environmental and Research Institutions as well as Oil & Gas industries in the ASEAN region. Flexisolve distributes Isotopx products across SE Asia.

B02
Japan Geoscience Union (JpGU)
4F Gakkai Center Bldg., 2-4-16 Yayoi, Bunkyo-ku, Tokyo 113-0032, Japan

Tel: +81 3 6914 2080 | Fax: +81 3 6914 2088
Email: office@jpgu.org
Web: http://www.jpgu.org/index-e/

The Japan Geoscience Union (JpGU), with more than 8,500 members, is a multidisciplinary geoscience organization based in Japan promoting excellence in all fields related to Earth and planetary science. This year we had the first joint meeting with AGU, the JpGU-AGU Joint Meeting 2017. The JpGU also publishes a peer-reviewed open access e-journal, Progress in Earth and Planetary Science (PEPS) in partnership with SpringerOpen.

A08
Kinemetrics, Inc.
Kinemetrics, Inc. 222 Vista Avenue Pasadena, CA 91107 USA

Tel: +1 626 795 2220 | Fax: +1 626 795 0868
Email: ov@kmi.com
Web: www.kmi.com

Kinemetrics has been a leader in the earthquake instrumentation business for over forty years, creating innovative products and solutions for seismic arrays and networks, for monitoring bridges, dams, structures and nuclear power industry. We also support and run several large seismic networks including DPC Italy, US Array, US PBO.

B06
Korean Meteorological Society
1510 Renaissance Tower Bldg 14 Mallijae-ro, Mapo-gu, Seoul 04195 Korea

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Email: komes@komes.or.kr
Web: http://www.komes.or.kr/

The Korean Meteorological Society (KMS), with over 2,500 members, has been devoted to improving our understanding of earth systems with a particular focus on atmospheric sciences, meteorology, and climate change, and also communicating potential or predicted catastrophic events caused by severe weather systems, climate change, and local/regional air pollution to the public. The KMS publishes both international and domestic peer-reviewed journals, 'Asia-Pacific Journal of Atmospheric Sciences' and 'Atmosphere'. In this year (Oct. 23–24), KMS holds Asian Conference on Meteorology (ACM2017) in Busan, Korea with co-organizing partners, Chinese Meteorological Society and Meteorological Society of Japan (http://komes.or.kr/acm2017).

D05
LI-COR Biosciences
4647 Superior Street Lincoln, NE 68504 USA

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Web: http://www.licor.com/env

Visit LI-COR's booth (D05) to see the latest instrumentation for environmental research. LI-COR will feature complete eddy covariance systems, including the LI-7500A Open Path CO2/H2O Analyzer, and solutions for remote communications, solar power, and real-time flux processing hardware and software packages.

A09
METER Group, Inc.
2365 NE Hopkins Court Pullman WA 99163

Tel: +1 509 332 2756 | Fax: +1 509 332 5158
Email: matt.galloway@metergroup.com
Web: www.metergroup.com

After years of collaboration, Decagon and UMS have formalized their relationship by merging. In doing so, we have adopted a new name. We are excited to present our new company, METER Group, Inc., at the 2017 AOGS meeting. METER Group, Inc. combines scientific and engineering expertise to create systems for measuring water along the soil-plant-atmosphere continuum. This year, we are presenting several new products, including an all-in-one weather station, solar-powered data logger with cell communication and an automated soil particle size analyzer. Please stop by our booth to see these and other new products.

A02
Nankai University
2-501 Building 7, Tianjiaoyuan, Yinshui Rd. Nankai District, Tianjin 300191

Tel: +86 22 8535 8816
Email: huangj@nankai.edu.cn
Web: www.nankai.edu.cn

Founded in 1919, Nankai University is one of the most renowned and prominent universities in China. It features a balance between the Humanities and the Sciences, a solid foundation and a combination of application and creativity. The university has 24 colleges, covering literature, history, philosophy, economics, management, law, science, engineering, agriculture, medicine, education and arts.

C01 - C04
NASA
NASA Goddard Space Flight Center, Building 33, Room E112 Greenbell, MD 20771

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NASA leads the United States on a great journey of discovery, seeking new knowledge and understanding of our Sun, Earth, solar system, and the universe. NASA, together with its domestic and international partners, uses space observatories to conduct scientific studies of the Earth and Sun, to visit and return data and samples from other planetary bodies, and to peer out into the universe.

A11
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3105 Patrick Henry Drive Santa Clara CA 95054 USA

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Email: gabhun2015@gmail.com
Web: www.picarro.com

Picarro is the world's leading provider of stable isotope and gas concentration measurement systems for many scientific applications. The ultra-precise and easy-to-use instruments are deployed across the globe offering unmatched performance and enabling scientists around the world to measure GHGs, trace gases and stable isotopes found in the air, water, and land.

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Skye Instruments Ltd has been designing and manufacturing instrumentation for Plant and Agricultural Research, Environmental Monitoring and Remote Sensing since 1983. Our wide product base and services are used for Plant and Crop Research; Global Climate Change Studies; Environmental Monitoring and Controlled Environment Installations. We're also proud to be an "Employee-Owned Company".

D10
Society of Exploration Geophysicists (SEG)
8801 S Yale Ave, Ste 500 Tulsa, OK 74137 USA

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Email: jabbott@seg.org
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Founded in 1930, the Society of Exploration Geophysicists is a not-for-profit organization committed to connecting and inspiring the people and science of geophysics. With 27,000+ members in 138 countries, SEG provides educational resources to the geosciences community through publications, books, events, forums, professional development courses, and more. Visit www.seg.org

A10
Springer Nature
Room 408-412, Beijing Ideal Plaza, No. 58 Northwest 4th Ring Road, Beijing 100080 China

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D01
Taiwan Earthquake Research Center (TEC)
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Web: http://tec.earth.sinica.edu.tw/

TEC (Taiwan Earthquake Research Center), a platform to present our most state-of-the-art earthquake science studies and to deliver our knowledge to the general public.

D02
UGT - Umwelt-Geräte-Technik GmbH
Lise-Meitner-Str.30 85354 Freising, Germany

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Web: www.ugt-online.de

UGT - Umwelt-Geräte-Technik GmbH - founded in 1992 in Germany, develops, manufactures and installs environmental measurement devices and long-term monitoring systems for pedologic, hydrologic and related environmental research questions for scientists and environmental managers of all industries. The company's core strength is providing customized innovative, high-quality instruments.

By UGT GmbH

"Lysimeters – a Modern Tool to Investigate Transport Processes in Ecosystems"
Sascha RETH
UGT GmbH

08 August, Tuesday
Summit Room, Level 3
12:45 – 13:15

Lysimeters are an important way of determining the water balance for ecosystems using water balance parameters. In addition to the quantity, it is also possible to investigate the quality of soil and seepage water. Soil monoliths of defined dimensions are taken from their natural environment and given defined boundary conditions. In combination with corresponding measurement technology, it is possible to investigate the function and mode of action of ecosystems in this way. The results can be transferred from small to large scales and are amongst other things a good method to determine the evapotranspiration of a defined area (typically 1-2 m^2), of the water and solute transport in a defined volume (typically 1-5 m^3) and the degradation and conversion of substances under weathering influences. Due to the possibility of long term outdoor investigations under real location conditions, statements may be made using lysimeter tests on the water balance of certain climate scenarios, for example. Other possibilities are the comparison of several similar lysimeters in areas with different weathering conditions or the comparison of different soil types or different vegetation with the same weather over a longer time. These investigations provide the foundation for many models to estimate the effect of climatic change, the spread of contamination in the soil or the success of re-conditioning measures. Typical areas of use for lysimeters are agricultural land locations, forest locations, landfills and post-mining landscapes as well as areas with existing waste deposits in need of recultivation. The combination of several lysimeters is recommended for statistically verified statements.

Anthropogenic environmental changes threaten biodiversity as well as the interactions between trophic levels and consequently alter their influence on ecosystem functions. New experimental platforms, "Ecotron", were developed to investigate the mechanisms underlying the relationship between biodiversity and ecosystem functioning by manipulating biodiversity at multiple trophic levels.

By Earth Science Research Promotion Center & TAO Journal

"Innovative Earthquake Science and Technologies Developed in Taiwan"
J. Bruce H. SHYU
National Taiwan University

08 August, Tuesday
Summit Room, Level 3
16:00 – 16:30

In the past decade, the Taiwan Earthquake Research Center (TEC) has promoted a series of studies on real-time seismology, earthquake early warning (EEW) and seismic hazard and risk analysis with support from the Minister of Science and Technology (MOST). In addition to the Taiwan Central Weather Bureau (CWB), who is doing a great job in monitoring regional seismicity, the earthquake science communities have been constantly developing new technologies to contribute to seismic hazard mitigation.

An automated near real-time moment tensor monitoring system (RMT) has been constructed to monitor the seismic activity by taking advantage of a grid-based moment tensor inversion technique and long-period broadband seismic recordings. All source parameters, including the event origin time, hypocentral location, moment magnitude and focal mechanism can be determined simultaneously with 117 seconds after the occurrence of an earthquake.

The P-Alert, a MEMS accelerometer that is specially designed for on-site earthquake early warning, has been widely deployed island-wide in Taiwan. It can detect first P-wave arrival and provide an alert with predicted intensity when the amplitude of vertical P-wave is over 0.35 cm. This EEW system is not only providing the on-site EEW but also reinforce the earthquake disaster prevention education.

By integrating the earthquake science, earthquake engineering, and social science communities of Taiwan, the Taiwan Earthquake Model (TEM) program is to improve our understanding of Taiwan earthquake mechanisms and therefore provide new insight into seismic hazard and risk assessments for Taiwan. We have published the first science-based hazard model of Taiwan on the basis of the Probability of Seismic Hazard Assessment (PSHA) approach.

The TEC not only acts as a platform for the advanced researches in earthquake science and technology, but also presenting real-time earthquake information and creative and diversity tools and materials for seismic education outreach.

By Earth Observatory of Singapore

"Using Animation to Communicate Earth Science and Sustainability"
Isaac KERLOW
Earth Observatory of Singapore

09 August, Wednesday
Summit Room, Level 3
12:45 – 13:15

Moving images are a powerful medium for analyzing, exploring and visually communicating complex concepts, and they are also the premiere medium for contemporary storytelling. Animation can have multiple roles in science communication today but it is particularly effective for explaining complex concepts and also for creating emotional connections with mainstream audiences. On a practical level animation can be free from the production constraints and the expense of live action filming. This presentation shows and explains a variety of animated sequences produced by the Art+Media Research Group at the Earth Observatory of Singapore. These animations have been used to communicate Earth science and sustainability in a variety of interdisciplinary projects. The projects reviewed range from scientific documentaries, to narrative shorts and interactive games.



By Earth, Planets and Space

"Earth, Planets and Space: Open Access Journal for Earth and Planetary Sciences"
Yasuo OGAWA
Tokyo Institute of Technology
(Editor in Chief, Earth, Planets and Space)

09 August, Wednesday
Summit Room, Level 3
16:00 – 16:30

I am the editor in chief of the journal Earth, Planets and Space (EPS) since 2013. EPS is published on behalf of the following five societies; The Society of Geomagnetism and Earth, Planetary and Space Sciences, The Seismological Society of Japan, The Volcanological Society of Japan, The Geodetic Society of Japan, The Japanese Society for Planetary Sciences. These five societies are all society members of the Japan Geoscience Union.

EPS covers scientific articles in Earth and Planetary Sciences, particularly geomagnetism, aeronomy, space science, seismology, volcanology, geodesy, and planetary science. EPS also welcomes articles in new and interdisciplinary subjects, including instrumentations. Only new and original contents will be accepted for publication.

EPS was established in 1998 as a continuation of the two journals, the Journal of Geomagnetism and Geoelectricity (1949 to 1997) and the Journal of Physics of the Earth (1952 to 1997). In 2014 we started open access publication under the SpringerOpen platform. Open Access publication successfully shortened the publication time, increased visibility of the journal and widened its international readership.

EPS has the following four article types; Full Paper, Express Letter, Frontier Letter and Technical Reports. Full paper has no limit in size. Express Letter is a short article for a quick publication of new findings. Frontier Letter is a short article invited by the editor in chief. Technical report is for publication on a software tool or an experimental or computational method, test or procedure or hardware design.

We have expanded the editorial board members in 2017 to speed up the reviewing process. Editorial board members are international and we provide qualified reviews.

Special issues are important parts of EPS. We welcome special issue proposals on focused topics that are within the scope of the journal.

Recent topics of the special issues are on the achievements of geoscientific projects or international conferences, or on geoscientific events, such as large earthquake events or volcano eruptions. Please contact me if you have a plan for a special issue.

PICARRO

By Picarro, Inc.

"Picarro Product Portfolio Update: Recent Developments in Cavity sRing-Down Spectroscopy"
David KIM-HAK
Picarro Inc.

10 August, Thursday
Summit Room, Level 3
12:45 – 13:15

We will review recent developments in Picarro's CRDS-based technology platform for greenhouse gas, trace gas and isotope applications across a variety of scientific disciplines.

Picarro Inc., a Silicon Valley-based company, is the world leading provider of top-quality laser-based gas analyzers and solutions. We serve a wide range of applications including air quality and greenhouse gas monitoring, energy and utility, food safety, industrial gas monitoring, and frontier scientific research.

Centered around the Cavity Ring-down Spectroscopy and over 45 international patents, we produce analyzers with ppb level precision for continuous, real time measurements of trace gas concentration (i.e. CO2, CH4, N2O, CO, NH3, C2H4, H2CO, and many more) and stable isotopes (i.e. δ18O, δ17O, δD in H2O; δ13C in CO2/CH4; δ15N in N2O; etc.).

These analyzers meet the most demanding standards of top-tier research institutes, government agencies and industrial leaders.

Today, Picarro analyzers are used in more than 60 countries and are present in all 7 continents. It is the gold standard of world authorities such as the World Meteorological Organization (WMO) and the International Atomic Energy Agency (IAEA).

In particular, we will focus on the GasScouter, our most portable high performance analyzer yet allowing you to "measure greenhouse gases on the go". It is perfect for soil flux measurements. We will further shed light on our new concentration Ethane/Methane & isotopic Methane analyzer, a powerful tool to resolve source attribution.

By Isotopx Flexisolve

"Next Generation Developments in Isotope Mass Spectrometry for the Ocean and Geoscience Communities"
Stephen SHUTTLEWORTH
Isotopx

10 August, Thursday
Summit Room, Level 3
16:00 – 16:30

The scientists at Isotopx have a long history in designing advanced mass spectrometers for the ocean and geoscience communities. With a history that dates back to the early VG companies there is a direct lineage that extends from the mid 1970's until today. In this talk we will introduce new technologies in detector design which when combined with a fresh look at high resolution mass spectrometry will expand analytical capabilities across not only traditional isotope measurements but also elemental analysis and for a wide range of matrices in ocean and geosciences. Isotopx is the leading supplier of both Thermal Ionisation Mass Spectrometers and Noble Gas Mass Spectrometers, however the introduction of these new technology will further drive the measurements to higher levels of precision and at considerably lower levels of concentration.

By LI-COR Biosciences

"Next Generation Evapotranspiration Flux Stations: Full Automation of Data Processing and Remote Management of ET Network"
Aaron SAATHOFF
LI-COR Biosciences

11 August, Friday
Summit Room, Level 3
12:45 – 13:15

Water scarcity and efficient water use are becoming increasingly important. At the same time, improvements in instrumentation have greatly improved spatial and temporal data coverage of evapotranspiration (ET) measurements on multiple scales, ranging from a single station to continental scale ET networks. With the increased number of ET stations and data from each station, modern tools are needed to effectively and efficiently handle the entire infrastructure (hardware, software and data management).

Recently, such tools have been developed for automated data collection, full on-site flux processing, data quality control, and remote management. These tools allow researchers to dedicate more resources to answering research questions, rather than toward station management. Having real time quality controlled executive summaries of data can also lead to better accountability across all management layers.

In late 2013, a new automated measurement system with novel hardware and software was developed and tested in Nebraska. The major advancements of this ET flux system include:

1. Enabling logging high-frequency, three-dimensional wind speeds and multiple gas densities (H2O, CO2, and CH4), low-frequency meteorological data, and site metadata simultaneously through a specially designed file format.
2. Conducting fully corrected, real-time on-site flux computations using conventional and user-specified methods, by implementing EddyPro Software on a small low-power microprocessor.
3. Providing precision clock control and coordinate information for data synchronization and inter-site data comparison by incorporating a GPS and Precision Time Protocol.

A data management server application was also developed to chart fully corrected real-time fluxes to assist remote system monitoring, send e-mail alerts, and automate data QA/QC, transfer and archiving at individual stations or on a network level. In this presentation we will review some of the innovations that have occurred in the hardware and software tools used in flux station networks that range in size from single sites to multiple flux stations.

By Nankai University

"Meeting with Nankai University for Your Future Career"
Jeanne HUANG
Nankai University

11 August, Friday
Summit Room, Level 3
16:00 – 16:30

Founded in 1919, Nankai University is one of the most renowned and prominent universities in China. During the development of more than 90 years, Nankai University has been following the motto of "Dedication to public interests, acquisition of all-round capability and aspiration for progress with each passing day", persisting in its glorious tradition of "patriotism, dedication, innovation and love of the community" and the concept of "govern the country with arts, strengthen the country with science and enrich the country with business". With the objective of "knowing China and serving for China", Nankai University dedicates to cultivating talents, promoting academic prosperity, strengthening the nation's power and inheriting civilization, and has obtained remarkable achievements.

Nankai University invites applications from outstanding candidates for full-time faculty positions (at associate/full professor level) in the broad area of eco-hydrology and environmental engineering preferably including but not limited to remote Sensing and GIS watershed management, climate change, environmental modeling, ecosystem restoration, wastewater treatment technology etc. Excellent English communication skills and a commitment to teaching are necessary. Individuals with relevant working experience are especially encouraged to apply. This information meeting will give more details on qualification, the salary and benefit package etc.

National Aeronautics and Space Administration

NASA Hyperwall Science Stories

Presented by NASA Experts at the NASA Booth

Time	Presenter	Presentation
Monday, August 7, 2017 (Opening Reception 18:30 - 20:30)		
19:00 - 19:15	**James Green**, Director of the Planetary Science Division, NASA Headquarters	Ocean World Europa
19:15 - 19:30	**Steve Platnick**, Deputy Director for Atmospheres, Earth Science Division, NASA Goddard Space Flight Center	NASA's Earth Observation Capabilities: Meeting the Challenges of Climate and Environmental Change
19:30 - 19:45	**Florian Schwandner**, Research Scientist, Volcanology, Gas Geochemistry, NASA Jet Propulsion Laboratory	Studying the Response of the Carbon Cycle to the 2015-16 El Niño with OCO-2 and GOSAT
19:45 - 20:00	**Richard Eckman**, Program Manager, Atmospheric Composition Modeling & Analysis Program, NASA Headquarters	In Search of Ozone Recovery: Initial Results from SAGE III on the International Space Station
Tuesday, August 8, 2017 (Exhibit Hours 9:30 - 18:00)		
10:45 - 11:00	**Paul Newman**, Chief Scientist for Atmospheric Sciences, NASA Goddard Space Flight Center	What's New with Earth's Ozone Layer?
13:00 - 13:15	**Steve Graham**, Senior Outreach Specialist for Earth Science, NASA Goddard Space Flight Center	Our Changing Planet at Night
13:15 - 13:30	**Steve Platnick**, Deputy Director for Atmospheres, Earth Science Division, NASA Goddard Space Flight Center	Clouds and Climate
13:30 - 13:45	**Jack Kaye**, Associate Director for Research, Earth Science Division, NASA Headquarters	NASA Global Climate Observations: Discover How Satellites See Climate Change
13:45 - 14:00	**Rosaly Lopes**, Section Manager for Planetary Science, NASA Jet Propulsion Laboratory	Titan: An Earth-Like World
15:45 - 16:00	**To be announced later**	
Wednesday, August 9, 2017 (Exhibit Hours 9:30 - 18:00)		
10:45 - 11:00	**Steve Graham**, Senior Outreach Specialist for Earth Science, NASA Goddard Space Flight Center	Our Changing Planet at Night
13:00 - 13:15	**Robert Levy,** Atmospheric Scientist, NASA Goddard Space Flight Center	Aerosols Effects on Climate, Air Quality, and Health
13:15 - 13:30	**George Huffman**, Deputy Project Scientist for the Global Precipitation Measurement (GPM) Mission, NASA Goddard Space Flight Center	GPM Observes Global Precipitation
13:30 - 13:45	**Florian Schwandner**, Research Scientist, Volcanology, Gas Geochemistry, NASA Jet Propulsion Laboratory	Studying the Response of the Carbon Cycle to the 2015-16 El Niño with OCO-2 and GOSAT
13:45 - 14:00	**Paul Newman**, Chief Scientist for Atmospheric Sciences, NASA Goddard Space Flight Center	What's New with Earth's Ozone Layer?
15:45 - 16:00	**James Green**, Director of the Planetary Science Division, NASA Headquarters	Role of Small Bodies in our Solar System
Thursday, August 10, 2017 (Exhibit Hours 9:30 - 18:00)		
10:45 - 11:00	**Jack Kaye**, Associate Director for Research, Earth Science Division, NASA Headquarters	NASA Global Climate Observations: Discover How Satellites See Climate Change
13:00 - 13:15	**Steve Platnick**, Deputy Director for Atmospheres, Earth Science Division, NASA Goddard Space Flight Center	Take the A-Train: The Afternoon Earth Observing Constellation
13:15 - 13:30	**To be announced later**	
13:30 - 13:45	**Richard Eckman**, Program Manager, Atmospheric Composition Modeling & Analysis Program, NASA Headquarters	In Search of Ozone Recovery: Initial Results from SAGE III on the International Space Station
13:45 - 14:00	**Paul Newman**, Chief Scientist for Atmospheric Sciences, NASA Goddard Space Flight Center	What's New with Earth's Ozone Layer?
15:45 - 16:00	**Steve Graham**, Senior Outreach Specialist for Earth Science, NASA Goddard Space Flight Center	Our Changing Planet at Night
Friday, August 11, 2017 (Exhibit Hours 9:30 - 18:00)		
10:45 - 11:00	**James Green**, Director of the Planetary Science Division, NASA Headquarters	Recent Discoveries in Planetary Science
13:00 - 13:15	**Jack Kaye**, Associate Director for Research, Earth Science Division, NASA Headquarters	NASA Global Climate Observations: Discover How Satellites See Climate Change
13:15 - 13:30	**George Huffman**, Deputy Project Scientist for the Global Precipitation Measurement (GPM) Mission, NASA Goddard Space Flight Center	Hurricane Matthew Revealed in NASA Data
13:30 - 13:45	**Pawan Gupta**, Research Scientist, Atmospheric Aerosols and Air Quality, NASA Goddard Space Flight Center	Air Pollution Measurements from Space
13:45 - 14:00	**Florian Schwandner**, Research Scientist, Volcanology, Gas Geochemistry, NASA Jet Propulsion Laboratory	Studying the Response of the Carbon Cycle to the 2015-16 El Niño with OCO-2 and GOSAT

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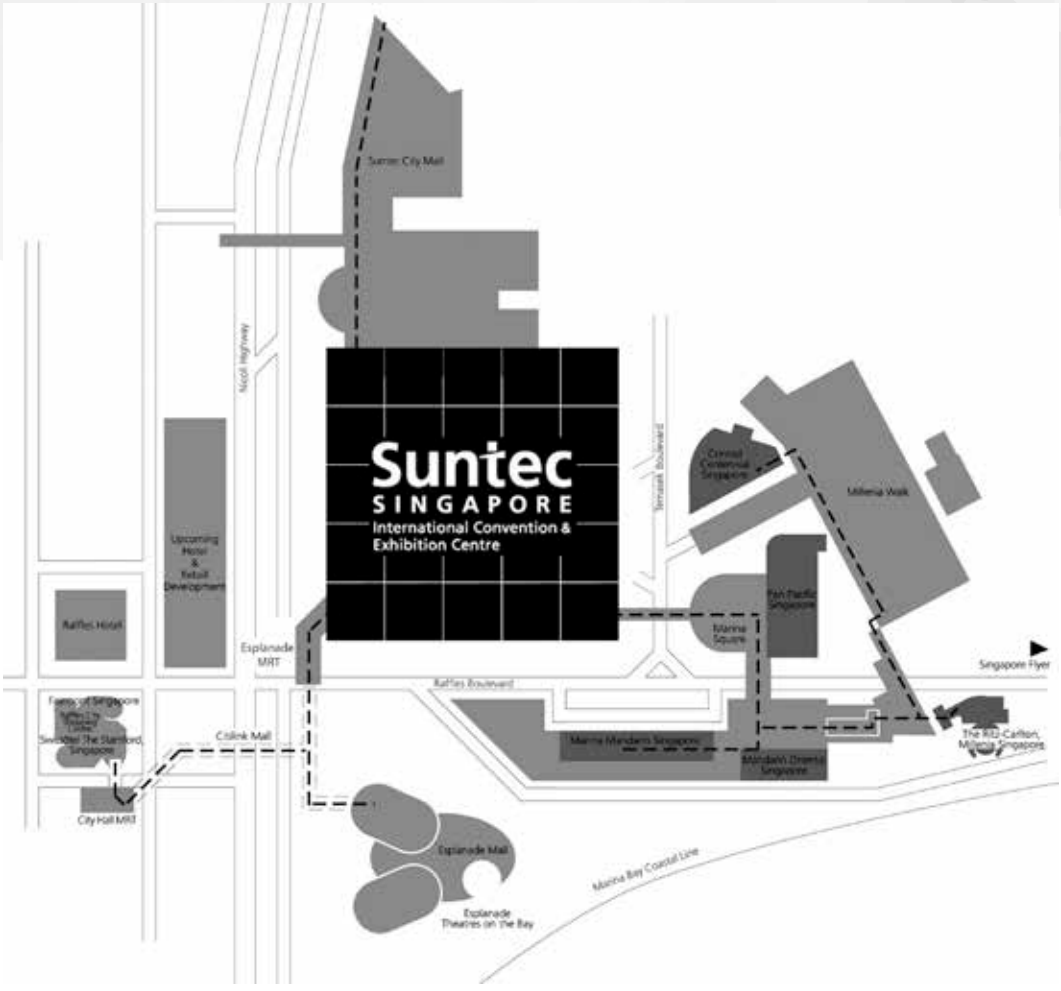
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Peninsula Excelsior	+65 6337 2200
Ramada Singapore At Zhongshan Park	+65 6808 6888
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Bus Services: 36, 97, 106, 111, 133, 501, 502, 518, 857, 700

By MRT:
MRT stands for "Mass Rapid Transit", and is Singapore's train and subway system. Suntec Singapore is connected to the MRT network through several MRT stations.

The nearest MRT Stations are Esplanade Station (CC3) and Promenade Station (CC4/DT15) via the Circle Line which will bring you directly to Suntec Singapore.

Alternatively, take the MRT to City Hall Station (NS25/EW13), followed by a five to ten minutes walk via an underpass to Suntec Singapore.

Walking from MRT station
- 1 min from Promenade and Esplanade MRT
- 5 - 10 mins from City Hall MRT

Singapore has one of the most extensive & efficient public transportation systems in the world. With the Mass Rapid Transit (MRT) trains, buses & taxis, travelling in the city and suburbs can be a quick and affordable affair. For a comprehensive guide that includes offline maps, estimated prices & time, download free smart phone app Singapore Map by Street Directory Pte Ltd from Google Play or Apple App Store. If you are using a Blackberry, you can still visit www.streetdirectory.com for the same services.

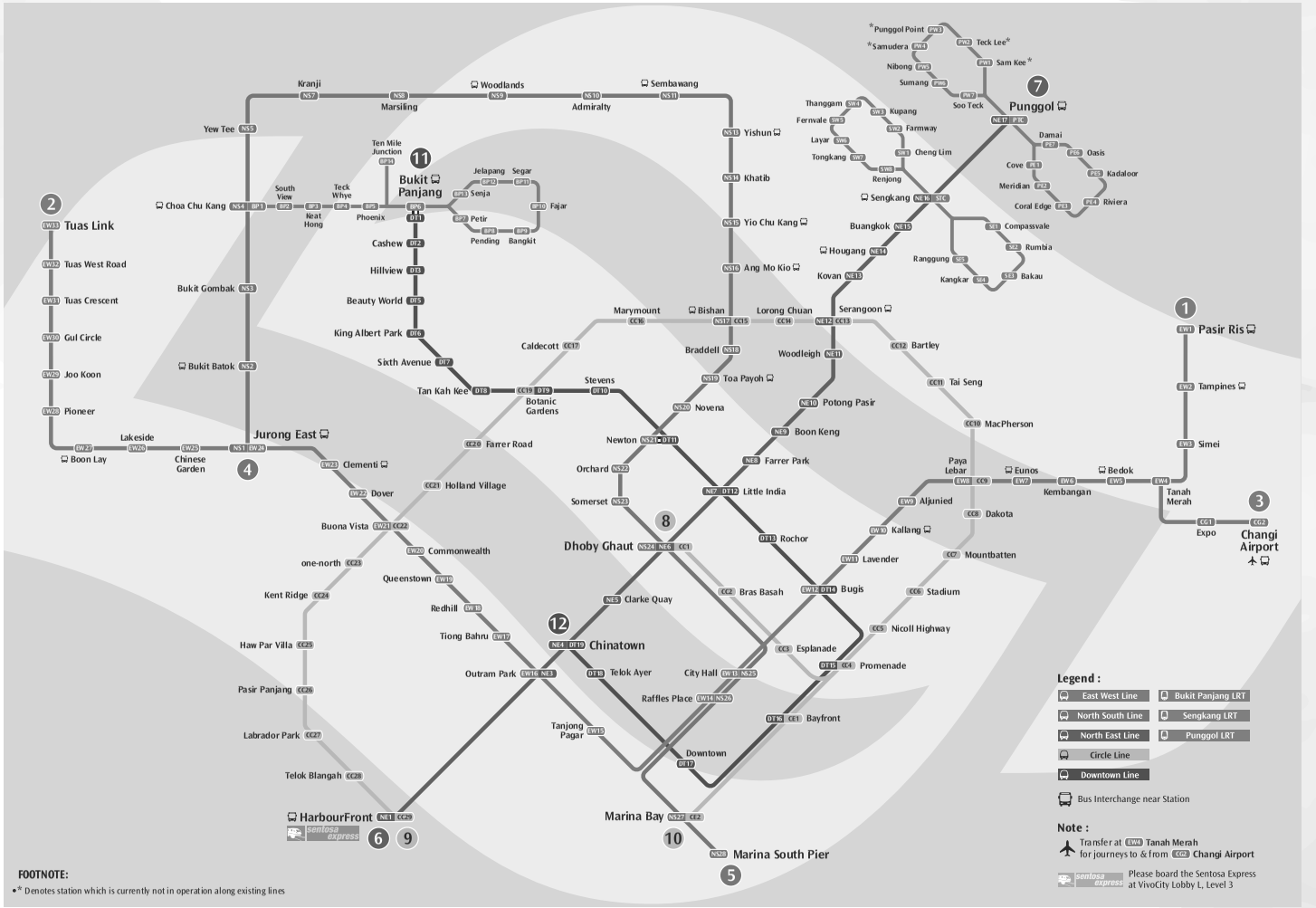
Train (MRT)
The MRT is a fast and cost-effective way of getting around Singapore. You can take the MRT from Changi Airport Terminal 3 to the city for a just couple of dollars. (If you are arriving at Terminal 1 or 2, you can take the Skytrain to Terminal 3.) If your hotel is not walking distance from any MRT station & you wish to save some dollars on transport, you can consider taking the MRT to the nearest MRT station before taking a taxi. Services operate from about 5:30am and usually end before 1 a.m. daily.

Bus
There are currently more than 300 bus services which run daily from 5.30 to midnight. The suggested app above will direct you to the exact bus-stop and the number to take.

Taxi
Taxis ply the island round the clock, bringing you wherever you want, anytime you want. However, do note that airport, peak-hour, city area & Electronic Road Pricing (ERP) gantry surcharges apply.

The hotlines for various taxi services in Singapore, are also listed below.

Comfort and City Cab	+65 6552 1111
Premier Taxis	+65 6214 8880
Prime Taxi	+65 6778 0808
SMRT Taxis	+65 6555 8888
TransCab	+65 6555 3333
MRT Information Centre	1800 336 8900


Punggol Point PW3
Samudera PW4
Teck Lee* PW2
Nibong PW5
Sam Kee* PW1
Sumang PW6
Soo Teck PW7
Punggol 7
Thanggam SW4
Fernvale SW5
Kupang SW3
Farmway SW2
Layar SW6
Cheng Lim SW1
Tongkang SW7
Renjong SW8
Sengkang NE16 STC
NE17 PTC
Damai
Cove
Meridian
Coral Edge
Oasis
Kadaloor
Riviera
Buangkok NE15
Compassvale
Rumbia
Bakau
Hougang NE14
Ranggung
Kangkar
Kovan NE13
Serangoon NE12 CC13
Bartley
Tai Seng
MacPherson
Pasir Ris 1
Tampines
Simei
Tanah Merah
Expo
Changi Airport 3
Eunos
Paya Lebar
Bedok
Kembangan
Aljunied
Dakota
Mountbatten
Stadium
Nicoll Highway
Promenade
Bayfront
Kallang
Lavender
Bugis
Rochor
Little India
Farrer Park
Boon Keng
Potong Pasir
Woodleigh
Braddell
Toa Payoh
Novena
Newton
Orchard
Somerset
Dhoby Ghaut
Clarke Quarter
Bras Basah
Esplanade
City Hall
Raffles Place
Telok Ayer
Chinatown 12
Clarke Quay
Downtown
Tanjong Pagar
Outram Park
Redhill
Queenstown
Commonwealth
Buona Vista
Dover
Clementi
Holland Village
one-north
Kent Ridge
Haw Par Villa
Pasir Panjang
Labrador Park
Telok Blangah
HarbourFront
Sentosa express
6
9
Marina Bay
10
Marina South Pier
5
Tiong Bahru
Farrer Road
Caldecott
Marymount
Bishan
Lorong Chuan
Braddell
Stevens
Botanic Gardens
Tan Kah Kee
Sixth Avenue
King Albert Park
Beauty World
Hillview
Cashew
Bukit Panjang 11
Ten Mile Junction
Jelapang
Segar
Senja
Petir
Pending
Bangkit
Fajar
Phoenix
Keat Hong
South View
Teck Whye
Choa Chu Kang
Tuas Link 2
Tuas West Road
Tuas Crescent
Gul Circle
Joo Koon
Pioneer
Boon Lay
Lakeside
Chinese Garden
Jurong East
4
Bukit Batok
Bukit Gombak
Kranji
Marsiling
Woodlands
Admiralty
Sembawang
Yew Tee
Yishun
Khatib
Yio Chu Kang
Ang Mo Kio
Legend :
East West Line
Bukit Panjang LRT
North South Line
Sengkang LRT
North East Line
Punggol LRT
Circle Line
Downtown Line
Bus Interchange near Station
Note :
Transfer at EW1 Tanah Merah for journeys to & from CG Changi Airport
Please board the Sentosa Express at VivoCity Lobby L, Level 3
FOOTNOTE:
* Denotes station which is currently not in operation along existing lines
Mass Rapid Transit System Map, © 2015 Land Transport Authority Singapore

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