

Professor Robin Robertson

Bldg A5-115, Xiamen University Malaysia
Jalan Sunsuria, Bandar Sunsuria
43900 Sepang, Selangor, Malaysia
Phone: 60 0172101844
email: robin.robertson@xmu.edu.my
r.robertson_nomad@yahoo.com

Professional Preparation:

Florida Institute of Technology (Melbourne, FL)	Oceanography	B.S.	1977
University of Rhode Island (Kingston, RI)	Ocean Engineering	M.S.	1982
Oregon State University (Corvallis, OR)	Physical Oceanography	Ph.D.	1999
Lamont-Doherty Earth Observatory (Palisades, NY)	Post-doctoral position	-	1999-2000, 2002
Alfred-Wegener-Institute (Bremerhaven, Germany)	Post-doctoral position	-	2001
Lamont-Doherty Earth Observatory (Palisades, NY)	Post-doctoral position	-	1999-2000

Appointments and Employment:

Xiamen University Malaysia, Sepang, Selangor, Malaysia
(10-17 to present) Professor, full-time faculty position
Nanjing University of Information Science and Technology, Nanjing, China
(7-17 to 8-17) Professor, part-time faculty position
University of New South Wales at the Australian Defence Force Academy, Canberra, ACT, Australia
(7-08 to 7-17) Senior Lecturer and (3-06 to 7-08) Lecturer
Lamont-Doherty Earth Observatory, Columbia University, Palisades, NY;
(10-02 to 3-06) Doherty Associate Research Scientist and
(3-06 to present) Adjunct Associate Research Scientist
Fairleigh Dickinson University, Teaneck, NJ (9-02 to 12-03); Adjunct Instructor
Alfred-Wegener-Institut für Polar- und Meeresforschung, Bremerhaven, Germany, International Research
Fellow (2001); Postdoctoral Researcher
Lamont-Doherty Earth Observatory, Columbia University, Palisades, NY (3-99 to 1-01; 12-01 to 10-02);
Postdoctoral Researcher
College of Oceanic and Atmospheric Sciences, Oregon State University, Corvallis, OR (9-91 to 2-99);
Ocean Research and Engineering, Pasadena, CA (7-89 to 2-91); Ocean Engineer
Tekmarine, Inc., Pasadena, CA (2-88 to 5-89); Ocean Engineer
Areté Associates, Sherman Oaks, CA. (5-84 to 2-88) and (6-89 to 7-89); Programmer/Analyst
Science Applications International Corp., Newport, RI (3-82 to 5-84); Programmer/Field Assistant

Positions in Societies, International Committees, and Editorial Positions:

AOGS (Asia Oceania Geosciences Society) President of Ocean Sciences Section 2014-2016 and Vice-
President of Ocean Sciences Section 2013-2014, 2016-2017
AMOS (Australian Meteorological and Oceanographic Society) – National Treasurer 2008-2009
AMOS – At-large National Council member – 2010 to 2014
AMOS ACT Chapter - Council Member – 2007-2013
Ocean Observations Panel for Climate: member 2017-2020
Clivar SORP (Southern Ocean Regional Panel): member 2017-2020
Deputy Leader for the NSW Integrated Marine Observing System (IMOS) Node (2014-2016)
Associate Editor for *Geoscience Letters*: 2014 to present
Associate Editor for *Deep-Sea Research I*: 2017 to present
Associate Editor for *Frontiers in Earth Science: Physical Oceanography* : 2018 to present

Academic Honors:

UNSW Rector's Teaching Award (2008 and 2010)

NSF International Research Fellowship (2001)

NASA Space Grant Fellowship Recipient (1991-1992) at Oregon State University.

Synergistic Activities:

Development of improved vertical mixing parametrizations for use in ocean models, specifically the Regional Ocean Modeling System (ROMS). Modeling of internal tides and tidal mixing in the Antarctic and Indonesian seas and the waters around Australia, investigating the sensitivity of the results to warming deep water, sea ice, shelf break fronts, and stratification. Investigating tidal impacts and the effects of the critical latitude in these simulations. Investigating the simulation of tidal and wind mixing using regional models for inclusion into larger scale global models. Evaluation of observational data, including mooring and CTD/LADCP data, for tidal impacts and mixing.

Publications: : [no. of citations as of 25 April 2018: SCOPUS; Google Scholar]

Peer-Reviewed Journal or Book Chapter:

h-index=12(Scopus); **15**(Google Scholar); **i-10-index= 17**(Google Scholar);

Total no. of citations =407(Scopus); 741(Google Scholar);

1. Jendersie, S., M. J. M. Williams, P. J. Langhorne, and R. Robertson (2018) The density-driven winter intensification of the Ross Sea circulation, *J. Geophys. Res. Oceans*, doi:10.1029/2018JC013965.
2. Boettger, D., G. Brassington, and R. Robertson (2018) Verification of the Mixed Layer Depth in the OceanMAPS operational forecast model for Austral autumn, accepted for Geoscientific Model Development, September 2018.
3. Smith, M., S. Stammerjohn, O. Persson, L. Rainville, G. Liu, W. Perrie, J. Thomson, and R. Robertson (2018) [0;1] Episodic reversal of autumn ice advance caused by release of ocean heat in the Beaufort Sea, accepted by *J. Geophys. Res. Oceans*, March 2018.
4. Robertson, R., and P. Hartlipp (2017) [0;0] Surface Wind Mixing in the Regional Ocean Modeling System (ROMS), *Geoscience Letters*, doi: 10.1186/s40562-017-0090-7.
5. Robertson, R., J. Dong, and P. Hartlipp (2017) [0;0] Diurnal Critical Latitude and the Latitude Dependence of Internal Tides, Internal Waves and Mixing, *J. Geophys. Res. Oceans*. Doi: 10.1002/2016jc012591.
6. Hibiya, T., T. Ijichi, and R. Robertson, (2017) [0;0] The impacts of ocean bottom roughness and tidal flow amplitude on abyssal mixing, *J. Geophys. Res. Oceans*, doi: 10.1002/2016C012564.
7. Roughan, M., Keating, S. R., Schaeffer, A., Cetina Heredia, P., Rocha, C., Griffin, D., Robertson, R. and Suthers, I.M. (2017)) [0;0;5] A tale of two eddies: The biophysical characteristics of two contrasting cyclonic eddies in the East Australian Current System, *J. Geophys. Res. Oceans*. doi:10.1002/2016JC012241.
8. Robertson, R. (2016) [0;0;0] Outflow from under the Pine Island Bay Ice Shelf: Fine Scale Structure and its Temporal Variability, *Advances in Polar Science*, 27, 245-263.
9. Schaeffer, A. M. Roughan, T. Austin, J. D. Everett, D. Griffin, B. Hollings, E. King, A. Montovanelli, S. Milburn, B. Pasquer, C. Pattiaratchi, R. Robertson, D. Stanley, I. Suthers, and D. White (2016) [1;1] Mean hydrography on the continental shelf from 26 repeat glider deployments along Southeastern Australia, *Scientific Data*, doi:10.1038/sdata.2016.70.
10. Woodham, R.H., O. Alves, G. B. Brassington, and R. Robertson (2015) [0;1] Evaluation of ocean forecast performance for Royal Australian Navy exercise areas in the Tasman Sea, *J. of Operational Oceanography (new unranked,1.5)*, doi:10.1080/1755876X.2015.1087187.
11. Randall-Goodwin, E., M. P. Meredith, A. Jenkins, P.I.Yager, R.M. Sherrell, E. P. Abrahamsen, R. Guerrero, X. Yuan, R. A. Mortlock, K. Gavahan, A.-C. Alderkamp, H. Ducklow, R. Robertson, and S. Stammerjohn (2015) [16;24] Freshwater distributions and water mass structure

- in the Amundsen Sea Polynya region, Antarctica, *Elementa: Science of the Anthropocene* (new, unranked), doi: 10.12952/journal.elementa.000065.
12. Boettger, D., R. Robertson, L. Rainville (2015) [2;7] Characterising the semidiurnal internal tide off Tasmania using glider data, *J. Geophys. Res.-Oceans* (A*,3.44), doi:10.1002/2015JC1071.
 13. Woodham, R., G. B. Brassington, R. Robertson, O. Alves (2013) [7;10] Propagation characteristics of coastally trapped waves on the Australian continental shelf during 2009, *J. Geophys. Res.-Oceans* (A*,3.44), 118, 1-13, doi:10.1002/jgrc.20317.
 14. Robertson, R. (2013) [13;19] Tidally induced increases in melting of Amundsen Sea ice shelves, *J. Geophys Res.-Oceans* (A*,3.44), 118, 1-8, doi:10.1002/jgrc.20236.
 15. Hibiya, T., N. Furuichi, and R. Robertson (2012) [11;13] Assessment of fine-scale parameterizations of turbulent dissipation rates near mixing hotspots in the deep ocean, *Geophys. Res. Lett.*(A*,3.98), 39, L24601; doi:10.1029/2012GL054068.
 16. Robertson, R., (2011) [8;8] Interactions between tides and other frequencies in the Indonesian Seas, *Ocean Dynamics* (B,1.77), 61, 69-88, doi:10.1007/s10236-010-0343x.
 17. Robertson, R., (2010) [9;12] Tidal Currents and mixing at the INSTANT mooring locations, *Dynamics of Atmospheres and Oceans* (B,2.67), 50, 331-373.
 18. Robertson, R.,(2010) [-;-] Are the deep waters of the Weddell Sea still warming?, *Chap 4. in Climate Change Monitoring and Strategy*, eds. J. You and A. Henderson-Smith, Sydney Univ. Press, 111-141.
 19. You, Y, T Rossby, W Zenk, AG Ilahude, M Fukasawa, R Davis, D Hu, D Susanto, PL Richardson, C Villanoy, T Liu, JH Lee, R Molcard WW Pandoe, M Koga, T Qu, RA Fine, A Gabric, R Robertson, Y Matsumoto, S Riser, H Hasumi, P Sigray, and T Lee, (2010), [-;-] Indonesian Throughflow: PACific Source Water INvestigation (PACSWIN) An international ocean climate program *Chap 8. in Climate Change Monitoring and Strategy*, eds. J. You and A. Henderson-Smith, Sydney Univ. Press, 238-298.
 20. Ffield, A. and R. Robertson (2008), [6;6] Temperature finestructure in the Indonesian Seas, *J. Geophys. Res.-Oceans* (A*,3.15), 113, C09009, doi:10.1029/2006JC003864.
 21. Robertson, R. and A Ffield (2008), [12;15] Baroclinic Tides in the Indonesian Seas: Tidal Fields and Comparisons to Observations, *J. Geophys. Res.-Oceans* (A*,3.15), doi:10.1029/2007JC004677, 2008.
 22. Robertson, R. (2006), [21;31] Modeling Internal Tides over Fieberling Guyot: Resolution, Parameterization, Performance, *Ocean Dynamics* (B,2.47), doi 10.1007/s10236-006-0062-5.
 23. Ffield, A. and R. Robertson (2005), [12;15] Indonesian Seas finestructure variability, *Oceanography* (B,2.11), 18, 108-111.
 24. Robertson, R. (2005), [19;25] Baroclinic and barotropic tides in the Weddell Sea, *Antarctic Science* (B,1.50), 17, 461-474.
 25. Robertson, R. and A. Ffield (2005), [25;54] M₂ baroclinic tides in the Indonesian Seas, *Oceanography* (B,2.11), 18, 62-73, DOI: 10.5670/oceanog.2005.06.
 26. Robertson, R. (2005), [18;24] Baroclinic and barotropic tides in the Ross Sea, *Antarctic Science* (B,1.50), 17, 107-120.
 27. Robertson, R., A. Beckmann, and H. Hellmer (2003), [19;26] M₂ Tidal dynamics in the Ross Sea, *Antarctic Science* (B,1.49), 15, 41-46.
 28. Robertson, R., M. Visbeck, A. L. Gordon, and E. Fahrbach (2002), [99;151] Long-term temperature trends in the deep waters of the Weddell Sea, *Deep-Sea Research II* (B,1.41), 49, 4791-4806.
 29. Robertson, R. (2001), [26;43] Internal tides and baroclinicity in the southern Weddell Sea: Part II: Effects of the critical latitude and stratification, *J. Geophys. Res.-Oceans* (A*,3.15), 106, 27,017-27,034.
 30. Robertson, R. (2001), [24;56] Internal tides and baroclinicity in the southern Weddell Sea: Part I: Model description, and comparison of model results to observations, *J. Geophys. Res.-Oceans* (A*,3.15), 106, 27,001-27,016.

31. Robertson, R., L. Padman, and M. D. Levine (2001), [14;17] A correction to the baroclinic pressure gradient term in the Princeton Ocean Model, *J. Atmos. Ocean. Tech.*(B,1.70), 18, 1068-1075.
32. Robertson, R. (1999), [-;3] Mixing and heat transport mechanisms in the upper ocean in the Weddell Sea, PhD thesis, Oregon State University College of Atmospheric and Ocean Sciences.
33. Robertson, R., L. Padman, and G. D. Egbert (1998), [-;116] Tides in the Weddell Sea, in *Ocean, Ice, and Atmosphere: Interactions at the Antarctic Continental Margin (unranked)*, Antarctic Research Series, 75, 341-369.
34. Robertson, R., L. Padman, and M. D. Levine (1995), [43;71] Fine structure, microstructure, and vertical mixing processes in the upper ocean in the western Weddell Sea, *J. Geophys. Res.-Oceans (A*,3.15)*, 100, 18517-18535.
35. Robertson, R. and M. Spaulding (1985) [-;-;-] A three-dimensional numerical dispersion model for acid-iron waste disposal, in *Wastes in the Ocean: Volume 5: Deep sea waste disposal*, Wiley Interscience, D. R. Kester, P. K. Park, P. H. Ketchum, and I. W. Duedall (eds.), 125-145.

Peer Reviewed Conference: [citations in Web of Science; SCOPUS; Google Scholar]

1. Robertson, R and P. Hartlipp) [0;1;0] (2015) [0;1;0] Acoustic Propagation off Eastern Australia, *Australian Acoustical Society Conference Proceedings*, Hunter Valley, 15-18 Nov 2015.
2. Robertson, R., [1;0;1] (2010) Tides, the PIG, and “warm” water, IOP Conf. Ser.: Earth Environ. Sci 11 012002, proceedings for the Australian Meteorological and Oceanographic Society (AMOS) Conference, Canberra, Australia, January 2010.
3. Robertson, R., [0;0;1] (2010) Modeling tide and vertical tidal mixing: A reality check, IOP Conf. Ser.: Earth Environ. Sci 11 012035, proceedings for the Australian Meteorological and Oceanographic Society (AMOS) Conference, Canberra, Australia, January 2010.
4. Robertson, R., [0;0;0] Tidal Effects on Circulation and Mixing in the Ombai Strait Region, paper published in the proceedings of the World Ocean Conference, Manado, Indonesia, May 2009.
5. Robertson, R., [0;0;0] Internal Tides and Mixing in the Indonesian Seas, refereed paper published in proceedings of the International Symposium on Stratified Flows, Perth Australia, Dec. 2006.

Non-Peer Reviewed: [citations in Web of Science; SCOPUS; Google Scholar]

1. Robertson, R. and P. Hartlipp [0;0;1] Tidal effects on acoustic propagation of eastern Australia, *Proceedings of Internoise*, 2014.
2. Clements, J. and R. Robertson [0;1;1] Acoustic ray propagation in the waters off eastern Australia using ocean glider data, *Proceedings of Internoise*, 2014.
3. Robertson, R. Tides, critical latitude and their effects on the Amundsen Sea ice shelves, *CLIVAR Exchanges*, 62, 31-33, 2013.
4. Robertson, R., Tidal Effects on Circulation and Mixing in the Ombai Strait Region, paper published in the proceedings of the 9th International Conference on Southern Hemisphere Meteorology and Oceanography, Melbourne, Australia, Feb 2009.
5. Robertson, R., M. Visbeck, and A. L. Gordon, Long-term Warming of Weddell Sea Warm Deep Water, *CLIVAR Exchanges*, 6, No. 4, 21-22, 2001.
6. Robertson, R., [0;0;7] Mixing and heat transport mechanisms for the upper water column in the Weddell Sea, Ph.D. Dissertation, College of Oceanic and Atmospheric Sciences, Oregon State University, 1999.
7. Padman, L., R. Robertson, and K. Nicholls, Modeling tides in the southern Weddell Sea: Updated model with new bathymetry from ROPEX, [7] Filchner-Ronne Ice Shelf Programme Report No. 12, Alfred-Wegener Institute for Polar and Marine Research, Bremerhaven, Germany, 1998.

Conference Presentations

1. Robertson, R., J. Dong, and P. Hartlipp, The Impact of Background Currents on Diurnal Critical Latitude Effects on Internal Tides and Mixing, 2nd International Workshop on Regional Ocean Modeling and Observation, Nanjing, China, July 2018, Invited.

2. Robertson, R., J. Dong, and P. Hartlipp, The Impact of Background Currents on Diurnal Critical Latitude Effects on Internal Tides and Mixing, Asia-Oceania Geosciences Society (AOGS), Honolulu, Hawaii, USA, June, 2018.
3. Robertson, R., and P. Hartlipp, The Performance of Vertical Mixing Parameterizations in Replicating the Mixed Layer Depth and Surface Wind Mixing, Asia-Oceania Geosciences Society (AOGS), Honolulu, Hawaii, USA, June, 2018.
4. Robertson, R., J. Dong, and P. Hartlipp, The Impact of Background Currents on Diurnal Critical Latitude Effects on Internal Tides and Mixing, Japanese Geophysical Union (JpGU) Meeting, Chiba Japan, May 2018.
5. Robertson, R., and P. Hartlipp, The Performance of Vertical Mixing Parameterizations in Replicating the Mixed Layer Depth and Surface Wind Mixing, Japanese Geophysical Union (JpGU) Meeting, Chiba Japan, May 2018
6. Robertson, R. and P. Hartlipp, The Dependence of Tidal Effects Including Internal Tides and Mixing on Latitude, American Geophysical Union Ocean Sciences Meeting, Portland, OR, USA, February 2018.
7. Robertson, R. The Dependence of Ice Shelf Melt and Cavity Circulation on Topography and the Critical Latitude for Pine Island Glacier, AMOS/ICHSMO joint conference, Sydney, Australia, February, 2018
8. Robertson, R. and P. Hartlipp, The Dependence of Tidal Effects Including Internal Tides and Mixing on Latitude, AMOS/ICHSMO joint conference, Sydney, Australia, February, 2018.
9. Robertson, R. and P. Hartlipp, The Dependence of Tidal Effects Including Internal Tides and Mixing on Latitude, Asia-Oceania Geosciences Society (AOGS), Singapore, August 2017.
10. Robertson, R., The Dependence of Ice Shelf Melt and Cavity Circulation on Topography and the Critical Latitude for Pine Island Glacier, Asia-Oceania Geosciences Society (AOGS), Singapore, August 2017.
11. Wang, X., Y. Chen, M. Schodlok, D. Menemelis, C. Shum, and R. Robertson, Modeling Tides and Their Impact on Ocean Circulation near Pine Island Bay, West Antarctica, , Asia-Oceania Geosciences Society (AOGS), Singapore, August 2017.
12. Hartlipp, P., and R. Robertson, Wind, Tidal, and Geothermal Mixing on the Heard Island Plateau during HEOBI, Asia-Oceania Geosciences Society (AOGS), Singapore, August 2017.
13. Robertson, R., The Dependence of Tidal Effects Including Internal Tides and Mixing on Latitude, Japanese Geophysical Union Conference, Chiba, Japan, 23-25 May 2016.
14. Robertson, R. and P. Hartlipp, Surface and Wind Mixing in Ocean Models (ROMS), Australian Meteorological and Oceanographic Society National Conference (AMOS), Canberra, Australia, February 2017.
15. Boettger, D., R. Robertson, and G. Brassington, Verification of Mixed Layer Depth in the OCEANMAPS 3.0 Ocean Forecast Model, Australian Meteorological and Oceanographic Society National Conference (AMOS), Canberra, Australia, February 2017.
16. Robertson, R. and P. Hartlipp (Invited), Interactions on the Heard Island Plateau during HEOBI, XMAS III, Xiamen, China, January 2017.
17. Hibiya, T., T. Ijichi, and R. Robertson (Invited), The Impacts of Ocean Bottom Roughness and Tidal Flow Amplitude on abyssal Mixing, XMAS III, Xiamen, China, January 2017.
18. Robertson, R., The Latitude Dependence of Internal Tides, Internal Waves, and Mixing, XMAS III, Xiamen, China, January 2017.
19. Robertson, R. and P. Hartlipp, Mixing on the Heard Island Plateau during HEOBI, Fall American Geophysical Society (AGU) Meeting, San Francisco, CA, USA, December 2016.
20. Robertson, R. and P. Hartlipp, Surface Mixing in ROMS, ROMS Asia-Pacific Workshop, Hobart, Australia, October 2016.
21. Robertson, R., Tidal Effects in the Amundsen Sea, Australian Coastal and Ocean Modelling and Observations (ACOMO) Workshop, Canberra, Australia, October, 2016.

22. Robertson, R. and P. Hartlipp, Surface Mixed Layer Dynamics: Winds, Tides and Vertical Mixing Parameterizations in the Regional Ocean Modeling System (ROMS), , Australian Meteorological and Oceanographic Society National Conference (AMOS), Canberra, Australia, February 2017.
23. Robertson, R and P. Hartlipp, Internal Tides off Eastern Australia, Asia-Oceania Geosciences Society (AOGS), Beijing, China, August 2016.
24. Robertson, R and P. Hartlipp, Wind, Tidal, and Geothermal Mixing on the Heard Island Plateau, Asia-Oceania Geosciences Society (AOGS), Beijing, China, August 2016.
25. Robertson, R. Jendersie, S., M. J. M. Williams, R. Robertson, P. Langhorne, and N. Robinson, How Ross Sea Dynamics are Controlled by Competing Seasonal Processes, International Symposium on Interactions of Ice Sheets and Glaciers with the Ocean, La Jolla, CA, USA, 10-15 July 2016.
26. Robertson, R., (invited) Effects of Tides and Mixing in Regional Ocean Models, International Workshop on Regional Ocean Numerical Simulation and Observation, Nanjing, China, 30-31 May 2016.
27. Robertson, R., Surface Mixing and Its Implementation in Regional Ocean Models, Japanese Geophysical Union Conference, Chiba, Japan, 23-25 May 2016.
28. Robertson, R and P. Hartlipp, Acoustic Propagation off Eastern Australia, Australian Acoustical Society Conference, Hunter Valley, 15-18 Nov 2015.
29. Robertson, R and P. Hartlipp, Internal Tides off Eastern Tasmania and the T-Tide Project, Asia-Oceania Geosciences Society (AOGS), Singapore, August 2015.
30. Robertson, R. Tidal Effects on Deep Water and Ice Shelves in the Amundsen Sea, Asia-Oceania Geosciences Society (AOGS), Singapore, August 2015.
31. Hartlipp, P. S. and R. Robertson, Tidal Impacts off Eastern Australia Asia-Oceania Geosciences Society (AOGS), Singapore, August 2015.
32. Hartlipp, P. S. R. Robertson, and M. Bell, Observed Internal Tides on the Continental Shelf off Eastern Australia,, Asia-Oceania Geosciences Society (AOGS), Singapore, August 2015.
33. Robertson, R and P. Hartlipp. Internal Tides off Eastern Tasmania and the T-Tide Project, Australian Meteorological and Oceanographic Society National Conference (AMOS), Brisbane, Australia, July 2015.
34. Robertson, R, Tidal Effects on Deep Water and Ice Shelves in the Amundsen Sea, Australian Meteorological and Oceanographic Society National Conference (AMOS), Brisbane, Australia, July 2015.
35. Hartlipp, P. S. and R. Robertson, Internal Tides off Eastern Australia, Australian Meteorological and Oceanographic Society National Conference (AMOS), Brisbane, Australia, July 2015.
36. Hartlipp, P. S. R. Robertson, and M. Bell, Observed Internal Tides on the Continental Shelf off Eastern Australia, Australian Meteorological and Oceanographic Society National Conference (AMOS), Brisbane, Australia, July 2015.
37. Robertson, R. and P. Hartlipp, Tidal Effects on Acoustic Propagation off Eastern Australia, Internoise 2014, Melbourne, 16-19 Nov 2014.
38. Clements, J. and R. Robertson, Acoustic Ray Propagation in the Waters off Eastern Australia using Ocean Glider Data, Internoise 2014, Melbourne, 16-19 Nov 2014.
39. Robertson, R., Vertical Mixing Parameterizations: Which Best Matches Reality for Tidal Mixing?, Asia-Oceania Geosciences Society (AOGS) Meeting, Sapporo, Japan, August, 2014.
40. Robertson, R. , Tidal Impacts on Deep Water and Ice Shelves in the Amundsen Sea, Asia-Oceania Geosciences Society (AOGS) Meeting, Sapporo, Japan, August, 2014.
41. Robertson, R., The role of tides and tidal mixing in temperature and nitrate distributions off New South Wales, Australian Marine Science Association (AMSA), Meeting, Canberra, Australia, July 2014.
42. Robertson, R., and D. Kobashi, The Effects of Latitude on Internal Tides and Mixing, AGU Ocean Sciences Meeting , Honolulu, Hawaii, February 2014.
43. Robertson, R., Tidal Effects in the Amundsen Sea, Australian Meteorological and Oceanographic Society National Conference, Melbourne, Australia, February 2014.

44. Robertson, R., The Effects of Latitude on Internal Tides and Tidal Mixing, Australian Meteorological and Oceanographic Society National Conference, Melbourne, Australia, February 2014.
45. Woodham, R., G. Brassington, R. Robertson, and O. Alves, Coastally Trapped Waves on the Southern and Eastern Coasts of Australia, Australian Meteorological and Oceanographic Society National Conference, Melbourne, Australia, February 2014.
46. Boettger, D. and R. Robertson, Internal Waves in the Waters off Eastern Australia, Australian Meteorological and Oceanographic Society National Conference, Melbourne, Australia, February 2014.
47. Bell, M. and R. Robertson, Internal tides off the Eastern Australian coast and their seasonal variability as observed by moorings, Australian Meteorological and Oceanographic Society National Conference, Melbourne, Australia, February 2014.
48. Grosjean, L. and R. Robertson, Internal Tides and Waves off Eastern Australia as observed in Seaglider data, Australian Meteorological and Oceanographic Society National Conference, Melbourne, Australia, February 2014.
49. Robertson, R. and D. Kobashi, The Effects of Latitude on Internal Tides and Tidal Mixing, Asia-Oceania Geosciences Society (AOGS) Meeting, Brisbane, Australia, June, 2013.
50. Robertson, R. and A. Koch-Larrouy, Mixing in the Halmahera Sea from Observations and Model Simulations, Asia-Oceania Geosciences Society (AOGS) Meeting, Brisbane, Australia, June, 2013.
51. Robertson, R., Tidal Effects on Ice Shelves in the Amundsen Sea, CLIVAR Workshop on Interactions of the Oceans with Ice Shelves, Hobart, Australia, February 2013
52. Robertson, R., Critical Latitude Effects on Internal Tides, Internal Waves, and Mixing, Australian Meteorological and Oceanographic Society National Conference, Melbourne, Australia, February 2013.
53. Robertson, R., Tidal Effects on Ice Shelf Melting and Mixing in the Amundsen Sea, Australian Meteorological and Oceanographic Society National Conference, Melbourne, Australia, February 2013.
54. Robertson, R., IMOS Glider Observations of Internal Tides and Waves off the NSW Coast, Australian Meteorological and Oceanographic Society National Conference, Melbourne, Australia, February 2013.
55. Kobashi, D., R. Robertson, and L. Hughes, Internal Tides Associated with a Western Boundary Current and a Possible Sediment Transport Dynamics on the Inner Continental Shelf, East Australia, Australian Meteorological and Oceanographic Society National Conference, Melbourne, Australia, February 2013.
56. Bell, M., P. Collins, and R. Robertson, Internal Tides and Waves off the NSW coast as Observed in IMOS Mooring Data, Australian Meteorological and Oceanographic Society National Conference, Melbourne, Australia, February 2013.
57. Robertson, R., Tidal Mixing: The Inside Story, AGU-AOGS Joint Assembly, Singapore, August 2012.
58. Kobashi, D. and R. Robertson, The Role of Critical Latitude in Internal Tidal Mixing over a Seamount, AGU-AOGS Joint Assembly, Singapore, August 2012.
59. Robertson, R., The Role of Tides in the Dynamics of Flow in Ice Shelf Cavities in the Amundsen Sea, IGS Workshop on Interactions of Ice Sheets and Glaciers with the Ocean, La Jolla, CA, May 2012.
60. Robertson, R., Critical Concerns and Latitudes: Tidal Effects on Ice Shelves of the Amundsen Sea, AGU Ocean Sciences Meeting, Salt Lake City, Utah, USA, February 2012.
61. Robertson, R., Tidal Mixing: Barotropic versus Baroclinic, Australian Meteorological and Oceanographic Society, Sydney Australia, January 2012.
62. Robertson, R., Critical Concerns and Latitudes: Tidal Effects on Ice Shelves of the Amundsen Sea, Australian Meteorological and Oceanographic Society, Sydney Australia, January 2012.
63. Robertson, R., Vertical Tidal Mixing Parameterizations: Which Best Matches Reality?, IUGG General Assembly, Melbourne, Australia, June 2011.

64. Robertson, R., Tidal Effects on Ice Shelves in the Amundsen Sea, IUGG General Assembly, Melbourne, Australia, June 2011.
65. Robertson, R., The Role of Tides in the Dynamics of Flow in Ice Shelf Cavities in the Amundsen Sea, IGS/FRISP Symposium, La Jolla, California, May 2011.
66. Robertson, R., Tidal Currents and Mixing at the INSTANT Mooring Locations, Australian Meteorological and Oceanographic Society, Wellington, New Zealand, February 2011.
67. Robertson, R., The Roles of Warmer Circumpolar Deep Water, Topography, and Tides in Circulation and Mixing under the Pine Island Glacier, Australian Meteorological and Oceanographic Society, Wellington, New Zealand, February 2011.
68. Robertson, R., Topographical and Tidal-Driven Circulation and Melting in the Pine Island Glacier Cavity, Fall AGU Conference, San Francisco, CA, December 2010.
69. Robertson, R., Tidally-Driven Melting of the Pine Island Glacier, Australian-New Zealand Climate Forum, Hobart, Tasmania, Australia, September 2010.
70. Robertson, R., Vertical Tidal Mixing in ROMS: A Reality Check, International Workshop on Ocean Modeling, Norfolk, VA, USA, May 2010.
71. Robertson, R., Tidal Currents and Mixing at the INSTANT Mooring Locations, AGU Ocean Sciences Meeting, Portland, Oregon, February 2010.
72. R. Robertson, R., Vertical Mixing and Climate Models, AGU Ocean Sciences Meeting, Portland, Oregon, February 2010
73. Robertson, R., Tides, the PIG, and “Hot” Water, Australian Meteorological and Oceanographic Society, Canberra, Australia, January 2010.
74. Robertson, R., Vertical Mixing in Ocean Models, Australian Meteorological and Oceanographic Society, Canberra, Australia, January 2010.
75. Ellicott, D., and R. Robertson, A Comparison of Antarctic Bathymetric Compilations, Fall AGU Conference, San Francisco, CA, December 2009.
76. Robertson, R., Of a Yo-Yo, the PIG, and Tides, Fall AGU Conference, San Francisco, CA, December 2009.
77. Robertson, R., Tidal Effects on Circulation and Mixing in the Ombai Strait Region, World Ocean Conference, Manado, Indonesia, May 2009.
78. Robertson, R., Vertical Mixing from ROMS, ROMS-TOMS Asia-Pacific Workshop, Sydney, Australia, March 2009.
79. Robertson, R., Yo-Yo and the PIG, New Zealand Physical Oceanography Workshop, Wellington, New Zealand, March 2009
80. Ellicott, D., and R. Robertson, Antarctic Bathymetry, Which is best?, Australian Meteorological and Oceanographic Society, Melbourne, Australia, January 2009.
81. Robertson, R., Baroclinic tides in the Indonesian Seas, INSTANT Meeting, May 28-30, 2008, Palisades, NY, USA, 2008.
82. Robertson, R., Local and Surface Intensification of Tidal Currents and Mixing in the Indonesian Seas, AGU Ocean Sciences Meeting, February 24-29, 2008, Orlando, FL, USA, 2008
83. Robertson, R. Tides in the Amundsen Sea and under its ice shelf, Australian Meteorological and Oceanographic Society (AMOS) Meeting, January 28-Feb 1, 2008, Geelong, Victoria, Australia, 2008.
84. Robertson, R., Modeling internal tides: A reality check, Australian Meteorological and Oceanographic Society (AMOS) Meeting, February 5-8, 2007, Adelaide, SA, Australia, 2007
85. Robertson, R., and A. Field, Internal tides in the Indonesian Seas: A Simulation, International Symposium on Stratified Flows, December 11-14, 2006, Perth, Australia, 2006.
86. Robertson, R., Are the deep waters of the Weddell Sea still warming?, 17th Australia-New Zealand Climate Forum, September, 2006.
87. Robertson, R., Baroclinic tides in the Weddell Sea, SCAR Ocean Sciences Meeting, July 12-14, Hobart, Tasmania, Australia, 2006.

88. Robertson, R., and A. Field, Internal tides in the Indonesian Seas: A Simulation, AGU Ocean Sciences Meeting, February 20-24, Honolulu, Hawaii, USA, 2006.
89. Robertson, R., Baroclinic Tides in the Ross Sea, 3rd International Conference on the Oceanography of the Ross Sea Antarctica, October 10-14, Venice, Italy, 2005.
90. Robertson, R., Modeling baroclinic tides: Resolution, Parameterization, and Performance, Colloquium in honour and memory of Christian Le Provost, March 10-12, 2005, Toulouse, France, 2005.
91. Robertson, R., Recent temperature trends in the deep waters of the Weddell Sea, 7th conference on polar meteorology and oceanography joint symposium on high-latitude climate variations, May 12-16, 2004, Hyannis, MA, USA, 2004
92. Robertson, R., Barotropic and Baroclinic Tides in the Ross Sea, AGU Ocean Sciences Meeting, January 26-30, 2004, Portland, Oregon, USA, 2004.
93. Robertson, R., Vertical mixing parameterizations and their effects on the skill of baroclinic tidal modeling, 2003 Terrain-Following Ocean Models Users Workshop, 4-6 August 2003, PMEL/NOAA, Seattle WA, USA, 2003.
94. Robertson, R., Baroclinic tides at Fieberling Guyot: Evaluating the Ability to Simulate Velocities, American Geophysical Union Fall Meeting, December 6-10, 2002, San Francisco, CA, USA, 2002.
95. Robertson, R., H. Hellmer, and A. Beckmann, Tidal dynamics and mixing in the Ross Sea, American Geophysical Union Ocean Sciences Meeting, February 11-15, 2002, Honolulu, HI, USA, 2002.
96. Robertson, R., H. Hellmer, and A. Beckmann, Tidal dynamics and mixing in the Ross Sea, Conference on Oceanography of the Ross Sea, October 14-20, 2001, Ischia, Italy, 2001.
97. Robertson, R., A. Beckmann, A Comparison of POM and ROMS for Modeling Internal Tides in Weak Stratification, Terrain-following modeling communities workshop, August 20-22, 2001, Boulder, CO, USA, 2001.
98. Robertson, R., L. Padman, and M. D. Levine, Internal tides in the southern Weddell Sea: The effects of the critical latitude and shelf/slope fronts, presentation at American Geophysical Union Ocean Sciences meeting, 2000, San Antonio, TX, USA, *EOS*, 80, No. 49, OS184, 1999.
99. Robertson, R., M. Visbeck and A. Gordon, The 1999 CORC southern Weddell Sea observational program, presentation at CORC meeting, Sept., 1999, Lamont-Doherty Earth Observatory, Palisades, NY, USA, 1999.
100. Robertson, R., and L. Padman, Sigma coordinate pressure gradient errors and internal tides near the critical latitude, presentation at Sigma Coordinate Users Meeting, Sept., 1999, Bar Harbour, ME, USA, 1999.
101. Robertson, R., L. Padman, and M. Levine, Effects of the critical latitude and fronts on internal tides in the southern Weddell Sea, presentation at iAnZone workshop, Sept., 1999, Lamont-Doherty Earth Observatory, Palisades, NY, USA, 1999.
102. Robertson, R., L. Padman, and G. D. Egbert, Tidal currents in the Weddell Sea, American Geophysical Union Fall meeting, 1996, San Francisco, CA, USA, *EOS*, 77, No. 46, F412, 1996.
103. Robertson, R., G. D. Egbert, and L. Padman, Tidal currents in the Weddell Sea, American Geophysical Union Ocean Sciences meeting, 1996, San Diego, CA, USA, *EOS*, 77, No. 3, 86, 1996.
104. Robertson, R., L. Padman, M. D. Levine, R. D. Muench, M. G. McPhee, Internal waves in the eastern Weddell Sea during AnzFlux, IAPSO Proceedings No. 19, XXIst General Assembly, Honolulu, HI, USA, 148, 1995.
105. Stanton, T. P., M. G. McPhee, L. Padman, and R. Robertson, R., Turbulent heat fluxes near the base of the mixed layer in the Weddell Sea, IAPSO Proceedings No. 19, XXIst General Assembly, Honolulu, HI, USA, 149, 1995.
106. Robertson, R. and O. Shemdin, Short wave spectra modulation obtained using stereophotography, American Geophysical Union Ocean Sciences meeting, 1990, New Orleans, LA, USA, *EOS*, 71, No. 2, 82, 1990.
107. Robertson, R., A Monte Carlo model of particle dispersion due to wave motion, Oceans '83 Proceedings, San Francisco, CA, USA, AB1064, 988-992, 1983.

108. Robertson, R. and M. Spaulding, A three dimensional numerical model of dispersion in the presence of a warm core ring, American Geophysical Union Spring Meeting, Baltimore, MD, USA, *EOS*, 64, No. 8, 251, 1983.

Collaborators and Other Affiliations:

Collaborators:

Prof. Changming Dong, UCLA and NUIST, Los Angeles, CA USA and Nanjing, China

Dr. Arnold Gordon, Lamont-Doherty Earth Observatory, Palisades, NY, USA

Dr. Hartmut Hellmer, Alfred-Wegener-Institut, Bremerhaven, Germany

Prof. Toshiyuki Hibiya, The University of Tokyo, Tokyo, Japan

Prof. Zhiyu Liu, Xiamen University, Xiamen, China

Dr. Sharon Stammerjohn, NCAR, Boulder, CO, USA

Dr. Iain Suthers, Sidney Institute for Marine Science-UNSW, Sydney, Australia

Dr. Martin Visbeck, IFM/GEOMAR, Kiel, Germany: Co-author

Affiliations:

Part-time Faculty Position at Nanjing University of Information Science and Technology, China