Abstract Details

<u>AOGS 1st Annual Meeting</u> > <u>Ocean and Atmospheres</u> > Coastal ocean response to the pass typhoon &MAEMI& across the East (Japan) Sea >

Corresponding Author : Mr. SungHyun Nam (<u>namsh@ocean.snu.ac.kr</u>)

Organization: Seoul National University

Category: Ocean and Atmospheres

- Paper ID: 57-00A-A1393
 - **Title:** Coastal ocean response to the passage of the typhoon \otimes MAEMI \otimes aci East (Japan) Sea

Abstract:

An East Sea Real-time Ocean Buoy (ESROB) measured abrupt chang oceanographic as well as meteorological parameters during the passa typhoon **A**MAEMI**A**. The minimum air pressure of 980 hecto pascal a maximum wind speed of 20 m/s (with gust of 25 m/s) were observed the eye of &MAEMI was located within 100 km from the ESROB (at a.m. (KST) on September 13, 2003). The wave height reached the m of 9 m and the significant wave height of 4 m at 04:00 a.m. 1 hour at eye passed the closest point to the ESROB. From Synthetic Aperture (SAR) images taken over the East Sea about 19 hours later (at 10:10 we can observe normal wind fields, indicating the absence of typhoon influence at the ESROB site. The currents observed near the surface I increased after the typhoon eye passed and reached up to about 100 01:00 p.m. on September 13, 2003, about 10 hours after the passage eye. Upper layer thickness which was accompanied by strong southwith current, gradually increased from 20 m to 40 m during the 10 hours. simple two-layer model for the coastal ocean response to impulsive alongshore wind over uniform bottom slope by Csanady (1984), show reasonable estimates of alongshore and offshore currents and interfactor displacement for the condition of the typhoon 'MAEMI' at the ESROB : during the 10 hours. Reference Csanady, 1984. Circulation in the coast ocean. D. Reidel publishing company.

Presentation Mode: Oral

Keywords:

Status: Pending.

Co-Authors

No.	Title	First Name	Family Name	Organization
1	Dr.	D. J.	Kim	SEES, Seoul National University, Seoul, Korea
2	Dr.	JY.	Yun	SEES, Seoul National University, Seoul, Korea
3	Dr.	W. M.	Moon	SEES, Seoul National University, Seoul, Korea / Geophysics, University of Manitob
4	Dr.	К.	Kim	SEES, Seoul National University, Seoul, Korea