

A Brief summary of Annual (2012) CLIVAR related activities in Korea

Workshop

- Conference on Climate variability and Change, Seoul, Korea, April 19~20, 2012
: This conference is a part of annual meeting of Korea Meteorological Society. Large number of papers (around 150 papers) including oral and poster were presented. Topics include all issues associated with climate variability and its change.
- Second international Symposium: Effects of Climate Change on the World's Oceans, Yeosu, Korea, May, 15-19, 2012.
: This symposium is a part of Yeosu Expo 2012. A main topic for this symposium is how the World's Oceans influence the Climate change over the globe in terms of complex processes.
- Korea-Italy Symposium on Global Climate Change, Seoul, Korea, May 22, 2012.

Expeditions

- Korean young climate scientists (around 6~7 people) got together at APCC (Asia-Pacific Climate Center), Busan, April, 2012 to present their current research in relation to polar climate science. In particular, they discussed how the recent change in polar region influences the climate variability in the midlatitudes and tropics.

Key papers

- Jong-Yeon Park, Sang-Wook Yeh, J.-S. Kug , 2012 : Revisited relationship between tropical and North Pacific SST variations. *Geophys. Res. Lett.* 39, L02703, doi:10.1029/2011GL050005.
- Y.-K. Lee, Sang-Wook Yeh, B. Dewitte, B.-K. Moon and J.-G. Jhun, 2012: Changes in the wind stress forcing onto the oceanic baroclinic modes in the equatorial Pacific. *Theoretical and Applied Climatology* 107, 623-631. doi:10.1007/s00704-011-0514-9
- B.-Y. Yim, Y. Noh and S.-W. Yeh. 2012: Role of the ocean mixed layer processes in the response of the North Pacific winter SST and MLD to global warming in CGCMs. *Climate Dynamics*, 38, 1181-1190. DOI 10.1007/s00382-011-1120-3
- Choi J, S.-I. An, and S.-W. Yeh, 2012: Decadal amplitude modulation of two types of ENSO and its relationship with mean state. *Clim. Dyn.* 38, 2631-2644
- J.-S. Kim, K.-Y. Kim and S.-W. Yeh, 2012: Statistical evidence for the natural variation of the central Pacific El Nino *Journal of Geophysical Research-ocean* 117,C06014, doi:10.1029/2012JC008003
- S.-R. Yeo, K.-Y. Kim, S.-W. Yeh, and W. Kim, 2012: Decadal Change in the relationship between tropical Pacific and North Pacific. *Journal of Geophysical Research-atmosphere*, 117, D15102, doi: 10.1029/2012JD017775
- W.-G. Cheon, Y.-G. Park, S.-W. Yeh, and B.-M. Kim, 2012: Atmospheric impact on the northwestern Pacific under a global warming scenario. 39, L16709, doi:10.1029/2012GL052364. *Geophys. Res. Lett.*
- JinHee Yoon, Sang-Wook Yeh, Y.-H. Kim, J.-S. Kug, and H.-S. Min. 2012: Understanding the response of SST to the two different types of El Nino in the western North Pacific. (*Corresponding Author*), 105, 81-89, *Prog. Oceanography*.

- H.-Y. Son, W.-Park, J.-H. Jeong, S.-W. Yeh, B.-M. Kim, M. Kwon and J.-S. Kug, 2012: Nonlinear Impact of the Arctic Oscillation on extratropical climate variation. 117, L19102, doi:10.1029/2012JD018090, *Journal of Geophysical Research-Atmosphere*
- Sang-Wook Yeh, Y. Ham, and J. Lee., 2012: Changes in tropical Pacific SST trend from CMIP3 to CMIP5 and its implication of ENSO. 25, 7764-7771. *J. Climate*