

# POC Paper Session

Co-Convenors: *Michael G. Foreman (Canada) and Ichiro Yasuda (Japan)*

Papers are invited on all aspects of physical oceanography and climate in the North Pacific and its marginal seas (except S8 and S9 topics).

## Friday, October 30 (9:00-17:20)

- 9:00 ***Introduction by Convenors***
- 9:05 **Dake Chen and Tao Lian**  
A theoretical framework for tropical Indo-Pacific climate variability (POC-P-5758)
- 9:25 **Jürgen Alheit**  
Impact of climate variability on northern hemisphere marine ecosystems: Regime shifts and teleconnection patterns (POC-P-5760)
- 9:45 **Chan Joo Jang**  
North Pacific mixed layer depth projections from IPCC AR4 models (POC-P-5991)
- 10:05 **Howard J. Freeland and Denis Gilbert**  
A new estimate of the steric contribution to global sea-level rise (POC-P-5647)
- 10:25 **Enrique N. Curchitser, William Large, Kate Hedstrom and Jon Wolf**  
Downscaling climate simulations in the North Pacific Ocean using a fully coupled multi-scale model (POC-P-5978)
- 10:45 ***Coffee / tea break***
- 11:05 **Young Jae Ro**  
Impact of the Indonesian Through Flow on the water characteristics in western Pacific marginal seas (POC-P-5674)
- 11:25 **Fan Wang and Chuanyu Liu**  
A warm tongue intrusion into the Yellow Sea in winter and its inter-annual variability (POC-P-5543)
- 11:45 **Olga O. Trusenkova, Timofei Gulenko, Dmitry D. Kaplunenko and Vyacheslav B. Lobanov**  
Large-scale patterns of the Japan/East Sea sea level and its dynamic forcings (POC-P-5547)
- 12:05 **Dmitry D. Kaplunenko, Vyacheslav B. Lobanov and Olga O. Trusenkova**  
Effects of variability ‘separation’ for the northern Japan/East Sea obtained from satellite data (POC-P-5795)
- 12:25 **Hanna Na, Kwang-Yul Kim, Kyung-II Chang and Kuh Kim**  
Relationship between the interannual variability of the Korea Strait Bottom Cold Water, upper water temperatures and surface heat fluxes in the East Sea (POC-P-5785)
- 12:45 ***Lunch***
- 14:00 **John Calder and Jackie Grebmeier**  
Synthesis of recent ocean data from the Pacific sector of the Arctic by the Pacific Arctic Group (POC-P-5967)
- 14:20 **Victor Kuzin, Valentina Malakhova and Elena Golubeva**  
Dissolved methane transport in the Arctic water: Observed data and simulation (POC-P-5816)

- 14:40 **Eduard A. Spivak, Nina I. Savelieva and Anatoly N. Salyuk**  
Summer hydrography of the southeastern part of the Laptev Sea – Results from the Pacific Oceanological Institute expedition in September 2006 (POC-P-5668)
- 15:00 **Humio Mitsudera, Keisuke Uchimoto and Tomohiro Nakamura**  
Mechanisms of the cold water belt formation off the Soya Warm Current (POC-P-5840)
- 15:20 **Jinhee Yoon, Sang-Wook Yeh, Young Ho Kim and Jong-Seoung Kug**  
The characteristic response of the Kuroshio Extension region to a warm pool El Niño (POC-P-5896)
- 15:40 *Coffee / tea break*
- 16:00 **Michael Foreman, Piotr Czajko and Dario Stucchi**  
Simulating spring–neap salinity variations in Knight Inlet, Canada (POC-P-5713)
- 16:20 **Anastasiya A. Abrosimova and Igor A. Zhabin**  
Interaction of sea and river waters in the estuary of the Amur River (POC-P-5749)
- 16:40 **Hitoshi Kaneko, Ichiro Yasuda and Sachihiko Itoh**  
Direct measurement of turbulence mixing along a meridional transect in the western North Pacific (POC-P-5924)
- 17:00 **Elena A. Vilyanskaya, G.V. Shevchenko, O. Kusaylo and A. Kato**  
Water temperature changes in the nearshore zone of Aniva Bay from mooring observations (POC-P-5544)
- 17:20 *Session ends*

#### POC-P Posters

- POC-P-5512 **Svetlana P. Shkorba**  
Research on the influence of the thermal regime of water on ice cover in the Japan Sea
- POC-P-5513 **Nadezda M. Vakulskaya**  
Analysis of spatio-temporal distribution typizations of ice areas and ice volumes according to ice thicknesses in the Bering Sea
- POC-P-5522 **Ekaterina Potalova**  
Estimation of wind stress curl on Far-Eastern seas from tropical cyclone movements
- POC-P-5526 **Valentina V. Moroz**  
The thermohaline structure and temperature anomaly dynamics in the Kuril Islands area
- POC-P-5529 **Talgat R. Kilmatov and Elena Dmitrieva**  
The climatic trend of non-homogeneous SSTs in the northern Pacific Ocean and stability of the Kuroshio Extension jet
- POC-P-5550 **Yury I. Zuenko**  
One-dimensional model of water productivity changes because of convective regime reconstruction
- POC-P-5562 **Elena Dmitrieva, Vladimir Ponomarev and Nina I. Savelieva**  
Classification of the meteorological–hydrological time series of the Asian-Pacific region using cluster analysis

- POC-P-5563 **Galina A. Vlasova, Svetlana U. Glebova and Gleb S. Vlasov**  
Seasonal variability of the water circulation in the Sea of Okhotsk under the influence of synoptic processes in 2003-2004
- POC-P-5564 **Galina A. Vlasova, Bui Hong Long, Antonina M. Polyakova, Nguyen Ba Xuan, Gennady I. Yurasov and Le Dinh Mau**  
Preliminary results of the seasonal variability of water circulation in the South China Sea under the influence of the synoptic processes
- POC-P-5567 **Antonina M. Polyakova**  
Destructive tsunamis near the coast of Primorye
- POC-P-5568 **Antonina M. Polyakova**  
Atmospheric circulation over the South China Sea
- POC-P-5574 **Gennady I. Yurasov**  
Upwelling and its influence on ice conditions in Peter the Great Bay
- POC-P-5621 **Vladimir B. Darnitskiy and Maxim A. Ishchenko**  
On the differentiation of thermohaline processes in the Sea of Japan to the south of the Subarctic Front: Part I
- POC-P-5622 **Vladimir B. Darnitskiy and Maxim A. Ishchenko**  
On the differentiation of thermohaline processes in the Sea of Japan to the south of the Subarctic Front: Part II
- POC-P-5634 **Cai Yi, Zhanggui Wang and Licheng Feng**  
The Numerical Simulation of the effects of global warming on ocean ecosystems in Bohai Sea
- POC-P-5662 **Boris S. Dyakov**  
Large-scale fluctuations in the salinity of the Tsushima Current in the second half of the 20th century
- POC-P-5671 **Fedor Khrapchenkov and Nadezda Dulova**  
Influence of eddies and tides on the vertical structure of acoustic speed field on the east coast of Kamchatka and the Kuriles
- POC-P-5672 **Fedor Khrapchenkov**  
Dynamics of the runoff lenses of the Amur River in summer of 2005–2008
- POC-P-5682 **Liyang Wan, Hui Wang and Jiang Zhu**  
A “Dressed” Ensemble Kalman Filter method using different seasonal ensembles in the Pacific
- POC-P-5698 **Kwang Young Jung and Young Jae Ro**  
Stratification induced by Nam-Gang Dam water releases based on a numerical model in the Kangjin Bay, South Sea, Korea
- POC-P-5707 **Vladimir B. Darnitskiy and Maxim A. Ishchenko**  
Synoptic and long-term dynamics of water in the vicinity of the junction of Hawaii and the Imperial submarine ridges
- POC-P-5728 **Larissa A. Gayko**  
Variability of water and air temperature in the coastal zone of the northwestern Sea of Japan
- POC-P-5735 **Valentina V. Moroz**  
Thermohaline structure peculiarities in the South Kuril Straits zone
- POC-P-5752 **Vladimir Ponomarev, Vera Petrova and Elena Dmitrieva**  
Changing climate and linkages of surface heat fluxes in the North Pacific

- POC-P-5788 **Vladimir B. Darnitskiy and Maxim A. Ishchenko**  
Long-term thermohaline dynamics in the region of the northwestern Hawaiian Ridge Seamounts
- POC-P-5864 **Tatsuro Watanabe, Daisuke Simizu, Kou Nishiuchi, Toru Hasegawa and Osamu Katoh**  
Surface current structure and its variability in the southwestern Japan Sea derived by satellite-tracked surface drifters
- POC-P-5870 **Satoshi Osafune and Ichiro Yasuda**  
Numerical study of bidecadal water mass variations in the subarctic North Pacific related to the 18.6-year tidal cycle
- POC-P-5893 **Hironori Higashi, Hiroshi Koshikawa, Kunio Kohata, Shogo Murakami and Motoyuki Mizuochi**  
Relationship between water quality trend and climate change in Ise Bay, Japan
- POC-P-5910 **Takeshi Matsuno, Takahiro Endoh, Eisuke Tsutsumi, Ken-ichi Fukudome, Joji Ishizaka, Hisashi Yamaguchi, Sarat Tripathy, In-Seong Han, Jae-Hak Lee, Sang-Tae Jang and Sang-Hyun Kim**  
Vertical transport of subsurface nutrients in the East China Sea shelf for primary production
- POC-P-5923 **Oleg A. Bukin, Alexey V. Bulanov, Alexey A. Ilin, Sergey S. Golik and Ekaterina B. Sokolova**  
Femtosecond laser-induced breakdown spectroscopy for the detection of marine water and elemental composition of phytoplankton cells
- POC-P-5944 **Joon-Soo Lee, Hye-Hyun Lee, Won Duk Yoon, Joon-Yong Yang, and Sang Ok Chung**  
Analysis of the long-term temporal variations in the Yellow Sea using the cluster method
- POC-P-5945 **Vladimir V. Plotnikov**  
Estimation of ice cover conditions in the Japan Sea
- POC-P-5970 **Hui-wang Gao, Gu Ming, Ren-lei Wang and Yu-huan Xue**  
Characteristics of atmospheric turbulence of the marine-atmospheric boundary layer over the north Yellow Sea