POC Paper Session

Convenor: Michael G. Foreman (Canada)

Papers are invited on all aspects of physical oceanography and climate in the North Pacific and its marginal seas, particularly those related to the impacts of future climate change.

Wednesday, October 5, 2005 14:00-18:10

14:00-14:10 Michael G. Foreman (Introduction by POC Chairman)
Evaluation of climate change projections: A new Working Group under the PICES Physical Oceanography and Climate Committee

14:10-14:40 Hiroyasu Hasumi, Tatsuo Suzuki, Takashi T. Sakamoto, Seita Emori, Masahide Kimoto and Akimasa Sumi (Invited)
Present and future of the North Pacific simulated by a high resolution coupled atmosphere-ocean general circulation model (POC_Paper-2221)

14:40-15:10 Muyin Wang and James E. Overland (Invited)
A first look at the new IPCC AR4 climate model simulations over the North Pacific (POC_Paper-2503)

15:10-15:30 Yasuhiro Yamanaka, Taketo Hoshioka, Maki N. Aita and Michio J. Kishi (Oral)
Changes in ecosystem in the western North Pacific associated with global warming (POC_Paper-2255)

15:30-15:50 Larissa A. Gayko (Oral)
The analysis of temperature regimes in coastal areas of the north-west Japan/East Sea by climatic periods (POC_Paper-2283)

15:50-16:10 Ichiro Yasuda, Satoshi Osafune and Hiroaki Tatebe (Oral)
Possible mechanism of bi-decadal North Pacific ocean/climate variability in relation to the 18.6-year period nodal cycle (POC_Paper-2487)

16:10-16:30 Coffee Break

16:30-16:50 Skip McKinell (Oral)
Detecting the 1972/73 El Niño in the Northeast Pacific with an improved tropical teleconnection index (POC_Paper-2310)

16:50-17:10 Victor I. Kuzin, Aleksandr S. Lobanov and Valery M. Moiseev (Oral)
Analysis and modeling of north and tropical Pacific SST variability (POC_Paper-2358)

17:10-17:30 Yulia N. Tananaeva and Marat A. Bogdanov (Oral)
Interannual variability of cold and warm seasons and their duration in the North West Pacific (POC_Paper-2431)

17:30-17:50 Satoshi Osafune and Ichiro Yasuda (Oral)
Bidecadal variability in the intermediate waters of the northwestern subarctic Pacific and the Okhotsk Sea in relation to the 18.6-year nodal tidal cycle (POC_Paper-2485)

17:50-18:10 Fangli Qiao, Changshui Xia, Zhenya Song, Yongzeng Yang and Yeli Yuan (Oral)
Ocean surface waves play an essential role in air-sea interaction from an atmosphere-wave-ocean coupled model (POC_Paper-2319)
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<td>08:30-08:50</td>
<td>Shin-ichi Ito, Shigeho Kakehi, Motohiko Kashima, Kosei Komatsu, Takashi Setou and Yasumasa Miyazawa (Oral)</td>
<td>Predictability of location of the Kuroshio Extension and the Oyashio First Branch by JCOPE (POC_Paper-2407)</td>
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<td>08:50-09:10</td>
<td>Michael Foreman, Wendy Wiggins, Angelica Peña, Emanuele Di Lorenzo, Barbara Hickey, Amy MacFadyen and Vera Trainer (Oral)</td>
<td>Modelling and observational studies of the Juan de Fuca Eddy (POC_Paper-2293)</td>
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<td>09:10-09:30</td>
<td>Gennady A. Platov, Elena N. Golubeva, Young Jae Ro and John F. Middleton (Oral)</td>
<td>Numerical study of the general circulation in the Japan/East Sea with simple assimilation of temperature and salinity data (POC_Paper-2344)</td>
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<td>09:30-09:50</td>
<td>Olga O. Trusenkova, Vyacheslav B. Lobanov and Aleksandr A. Nikitin (Oral)</td>
<td>Seasonal and interannual variation of currents in the western Japan/East Sea: Numerical simulation in comparison with infrared satellite imagery (POC_Paper-2273)</td>
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<td>09:50-10:10</td>
<td>Gongke Tan, Binghua Guo, Kyung-Tae Jung and Hyoun-Woo Kang (Oral)</td>
<td>A review of the investigation and study on Yellow Sea circulation (POC_Paper-2361)</td>
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<td>10:30-10:50</td>
<td>Hao Wei, Yunchang He, Qingji Li and Zhiyu Liu (Oral)</td>
<td>Seasonal hypoxic zone adjacent to the Changjiang Estuary (POC_Paper-2254)</td>
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<td>10:50-11:10</td>
<td>Young Jae Ro and Kwang Young Jung (Oral)</td>
<td>Realtime monitoring of oceanic state variables in Kangjin Bay, South Sea, Korea (POC_Paper-2386)</td>
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<td>Anatoly Obzhirov, Anatoly Salyuk, Renat Shakirov, Olga Vereschagina, Natalia Pestrikova, Artem Ageev, Anna Venikova, Olesia Yanovskaja and Elena Korovitskaja (Oral)</td>
<td>Flux of methane to the atmosphere from the Okhotsk Sea (POC_Paper-2459)</td>
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<td>Vladimir I. Matveev (Oral)</td>
<td>Intennannual changes of dissolved oxygen in an active layer of the Okhotsk Sea (POC_Paper-2582)</td>
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<td>12:10-12:30</td>
<td>Nafanail V. Bulatov and Natalya G. Obukhova (Oral)</td>
<td>One type of eddy development in the north-eastern Kuroshio branch (POC_Paper-2484)</td>
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<td>14:00-14:20</td>
<td>Yugo Shimizu, Lynne D. Talley, Shin-ichi Ito and Miyuki Tatesawa (Oral)</td>
<td>Distribution and transport variations of source waters for North Pacific Intermediate Water formation revealed by multiple tracer analysis (POC_Paper-2411)</td>
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<td>Yury V. Novikov and Vadim M. Petruk (Oral)</td>
<td>On the problem of bottom water formation on the shelf of Peter the Great Bay (Japan/East Sea) in spring (POC_Paper-2228)</td>
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<td>George Shevchenko and Valery Chastikov (Oral)</td>
<td>Seasonal variability of oceanological conditions in the southern part of the Okhotsk Sea from CTD surveying on standard section Cape Aniva – Cape Dokuchaev (POC_Paper-2268)</td>
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15:00-15:20  Andrey G. Andreev and Victoria I. Baturina  (Oral)
Impacts of the tides and atmospheric forcing variability on salinity and dissolved oxygen in the western subarctic Pacific (POC_Paper-2270)

15:20-15:40  Young-Gyu Park, Kyung-Hee Oh and Moon-Sik Suk  (Oral)
Meridional mass and heat transport across the 38-40°N line in the East/Japan Sea (POC_Paper-2432)

15:40-16:00  Denis V. Darkin, Leonid M. Mitnik and Maia L. Mitnik  (Oral)
Evolution of sea ice in the Okhotsk Sea in January-April 2003: Analysis with the use of multisensor satellite and auxiliary data (POC_Paper-2321)

16:00-16:20  Coffee Break

16:20-16:40  Hiroki Takemura and Sei-Ichi Saitoh  (Oral)
Spatial phytoplankton distributions affected by eddy dynamics in the Eastern Kamchatka Current and Oyashio regions during the spring between 1998-2004 (POC_Paper-2460)

16:40-17:00  Vladimir A. Luchin and Igor A. Zhigalov  (Oral)
Typical distribution of interannual variations of water temperature in the active layer of the Okhotsk Sea and their possible prediction (POC_Paper-2322)

Posters

Tatyana V. Belonenko
Oceanographic field variability in the North Pacific by temperature circulation indices (POC_Paper-2483)

Tatyana Bogdanovskaya
Comparative analysis of parameters of Pacific subtropical anticyclones (POC_Paper-2461)

Valentina D. Budaeva, Georgi V. Shevchenko, Vajcheslav Makarov and Valery N. Chastikov
Intraannual thermohaline dynamics in Aniva Bay (POC_Paper-2382)

Manchun Chen, Hui Wang and Hengyi Weng
Interannual-interdecadal variability of the mean sea level along the China Coast during 1968-2002 (POC_Paper-2617)

Maochang Cui, Lingjuan Wu and Fan Wang
Principle of partial similitude for tsunami waves (POC_Paper-2226)

Boris S. Dyakov
Spatial and temporal variability in circulation and hydrophysical fields in Tatar Strait (POC_Paper-2440)

Victor R. Foux
Altimetry estimation of divergence and convergence area dispositions in streams for exchange application (POC_Paper-2531)

Lyudmila Yu. Gavrina, I.N. Propp and V.N. Chastikov
Factors of the environment and production characteristics in Aniva Bay, Sea of Okhotsk and bordering straits (Laperuz, Tatarky) in 1996-2002 (POC_Paper-2530)

Shigeho Kakehi, Shin-ichi Ito, Motohiko Kashima, Kosei Komatsu, Takashi Setou and Yasumasa Miyazawa
The comparisons between JCOPE and observed data in Tohoku regions (POC_Paper-2409)
Kosei Komatsu, Takashi Setou, Yasumasa Miyazawa, Akira Kusaka, Shin-ichi Ito, Shigeo Kakehi, Motohiko Kashima, Manabu Shimizu, Hideki Akiyama, Kazuyuki Uehara and Mitsuyuki Hirai
Verification of JCOPE ocean forecast system using *in situ* data of Japanese fisheries research institutions (POC_Paper-2456)

Takashi Setou, Kosei Komatsu, Yasumasa Miyazawa, Shin-ichi Ito, Kazuyuki Uehara, Manabu Shimizu, Akira Kusaka, Shigeo Kakehi, Motohiko Kashima, Hideki Akiyama and Mitsuyuki Hirai
Incorporating *in situ* data obtained by Japanese fisheries research institutions into the JCOPE ocean forecast system (POC_Paper-2457)

Young Jae Ro and Kwang Young Jung
Hydrographic and hydrodynamic variability in Kangjin Bay, South Sea, Korea (POC_Paper-2446)

Gennady A. Kantakov
Low salinity signal propagation in the western part of the Sea of Okhotsk (POC_Paper-2512)

Yun-Bae Kim, Kyung-II Chang, JongJin Park, Kuh Kim, Jae Hak Lee and Jae-Chul Lee
Flow through the Ulleung Interplain Gap in the southwestern East/Japan Sea (POC_Paper-2543)

Yu-Fei Lin, Su-Mei Liu, Lei Ji, Guo-Sen Zhang, Yan-Feng Bi and Jing Zhang
Multivariate statistical study on the chemical composition of rainwater at Zhoushan Archipelago (POC_Paper-2491)

Zhiyu Liu, Haitang Wang and Hao Wei
Bottom drag coefficient estimates in the tidal bottom boundary layer from acoustic Doppler velocimeter data (POC_Paper-2247)

Vasiliy F. Mishukov, Alexander N. Medvedev and Andrey S. Neroda
Natural and anthropogenic sources of chemical elements in aerosols over Vladivostok (POC_Paper-2222)

Valentina V. Moroz and Konstantin T. Bogdanov
Water structure and circulation variability in the Kuril Straits area (POC_Paper-2244)

Hanna Na and Kuh Kim
Temporal variation of the estimated volume transport through the Korea and Tsugaru Straits (POC_Paper-2389)

Aleksander A. Nikitin
Thermal features of water structure of the Japan/East Sea on satellite and ship observations (POC_Paper-2248)

Aleksander A. Nikitin, Yury Novikov and Vadim Petruk
Monitoring of Peter the Great Bay (Japan/East Sea) on IK-images and hydrological data in April-May of 2005 (POC_Paper-2249)

Alexander A. Nikitin, Larissa S. Shkoldina, Ekaterina N. Selivanova and Lyana D. Kulichkova
The phenomenon of warm water allochthonts in the north-western Japan/East Sea during winter-spring 2003-2004 and peculiarities of the thermal regime (POC_Paper-2359)

Eugene V. Samko and Vadim M. Petruk
Research on Bering Sea geostrophic circulation from satellite altimetry data: Two approaches to solving the problem (POC_Paper-2296)

Antonina M. Polyakova
Especially dangerous wave heights and safety of the fishing fleet in the Northern Pacific (POC_Paper-2381)

Antonina M. Polyakova
Ice formation is especially dangerous for fishing boats in the Northern Pacific and for the safety of the fishing fleet (POC_Paper-2383)
Eung Kim and Young Jae Ro
Structure of seawater properties profiled by the Argo floats in the Ulleung-do area (East/Japan Sea), 2003-2004
(POC_Paper-2452)

Eugene V. Samko, Nafanail V. Bulatov and Eugene O. Basyuk
Structure of an anticyclonic eddy in the southern Kuril Islands region and its influence on water dynamics and the saury fishery (POC_Paper-2470)

Renat B. Shakirov, Anatoly I. Obzhirov, Anatoly N. Salyuk and Nicole Biebow
Methane anomalies in the Okhotsk Sea (POC_Paper-2523)

Tatyana A. Shatilina, L.Yu. Matyushenko and R.B. Kravchenko
Monitoring of baroclinic circulation conditions and ice cover by GIS methods in the Far Eastern Seas (POC_Paper-2583)

Young-Sang Suh, Hiroshi Kawamura, Futoki Sakaida, Sang-Woo Kim, Lee-Hyun Jang and Na-Kyung Lee
Daily variation of abnormal ocean conditions in the northwestern Pacific Ocean using NGSST satellite data (POC_Paper-2592)

Svetlana N. Taranova and Igor A. Zhabin
Water mass transformation in the Japan/East Sea (POC_Paper-2225)

Galina A. Vlasova and Vladimir I. Rostov
Analysis of seasonal variability of hydrodynamic structures in the Sea of Okhotsk and their dependence on baric systems in the atmosphere (POC_Paper-2284)