

BIO Paper Session

Co-Convenors: Michael J. Dagg (U.S.A.), Michio J. Kishi (Japan) and Angelica Peña (Canada)

The theme of PICES XVI is “*The changing North Pacific: Previous patterns, future projections, and ecosystem impacts*”. In this session, we welcome papers on biological aspects of the PICES XVI theme as well as papers on other aspects of biological oceanography in the North Pacific and its marginal seas (except S2 and S11 topics). Young scientists are especially encouraged to submit papers to this session.

Thursday, November 1, 2007 09:00 – 17:20

- 09:00 **Introduction by convenors**
- 09:05 **Jun Nishioka, Tsuneo Ono and Hiroaki Saito**
Seasonal variability of micro-nutrient concentrations in the Oyashio region (BIO_P-4195)
- 09:25 **Shigenobu Takeda, Atsushi Tsuda, Philip W. Boyd, Paul J. Harrison, Isao Kudo, Maurice Levasseur, Jun Nishioka, Yukihiro Nojiri, Hiroaki Saito, Koji Suzuki, Mark L. Wells and C.S. Wong**
Biogeochemical responses of planktonic ecosystems during three meso-scale iron enrichment experiments in the subarctic North Pacific (BIO_P-4437)
- 09:45 **Nadja Steiner and Ken Denman**
Development of a mechanistic DMS model – Parameter sensitivities in a single column (BIO_P-4095)
- 10:05 **Jinhui Wang, Yutao Qin, Caicai Liu, Haofei Zhang, Yawei Sun and Lian Cao**
Variability of sand transport flux in the Changjiang River and its influence on the ecosystem and resources of the East China Sea (BIO_P-4174)
- 10:25 **Coffee / tea break**
- 10:50 **Jeffrey J. Polovina, Melanie Abecassis and Evan A. Howell**
Changes in oceanic surface chlorophyll in the North Pacific over the past decade: Is the North Pacific getting bluer? (BIO_P-4228)
- 11:10 **Koji Omori, Hidejiro Ohnishi, Toru Fukumoto, Shunsuke Takahashi, Hideki Hamaoka, Miyuki Ohnishi, Kenji Yoshino, Genkai Kato and Todd W. Miller**
Two sources of primary production of sand bank ecosystems in Seto Inland Sea, Japan (BIO_P-4489)
- 11:30 **Suguru Okamoto and Sei-ichi Saitoh**
Impact of the Kuroshio Extension on spatial and temporal variability of chlorophyll *a* concentration (BIO_P-4120)
- 11:50 **Takumi Nonomura, Atsushi Tsuda, Ichiro Yasuda and Shuhei Nishida**
Distribution patterns of *Calanus sinicus* and *C. jashnovi* (Copepoda: Calanoida) in the western temperate North Pacific: Relations with the Kuroshio Extension (BIO_P-4261)
- 12:10 **Atsushi Yamaguchi, Naonobu Shiga, Tsutomu Ikeda, Yoshihiko Kamei and Keiichiro Sakaoka**
Interannual/latitudinal variations in abundance, biomass, community structure and estimated production of epipelagic mesozooplankton along 155°E longitude in the western North Pacific during spring (BIO_P-4079)

- 12:30 **Lunch**
- 14:00 **Ai Ueda, Toru Kobari and Deborah K. Steinberg**
Body allometry and chemical composition of interzonally migrating copepods in the subarctic Pacific Ocean (BIO_P-4035)
- 14:20 **Toru Kobari, Ai Ueda, Deborah K. Steinberg, Minoru Kitamura and Atsushi Tsuda**
Development of ontogenetically migrating copepods in the Western Subarctic Gyre (BIO_P-4112)
- 14:40 **Brie J. Lindsey and Harold P. Batchelder**
A *Euphausia pacifica* bioenergetic model for the California Current System (BIO_P-4293)
- 15:00 **Shin-ichi Ito, Kenneth A. Rose, Naoki Yoshie, Bernard A. Megrey, Michio J. Kishi and Francisco E. Werner**
Evaluation of an automated approach for calibrating the NEMURO nutrient-phytoplankton-zooplankton food web model (BIO_P-4199)
- 15:20 **Hiroshige Tanaka, Seiji Ohshimo and Ichiro Aoki**
Feeding habits of mesopelagic fishes off the coast of western Kyushu, Japan (BIO_P-4200)
- 15:40 **Coffee / tea break**
- 16:00 **Oleg N. Katugin, Gennady A. Shevtsov, Mikhail A. Zuev and Anna V. Dakus**
Patterns of size structure and ecology in the northern gonate squid (*Boreoteuthis borealis*) in the Okhotsk Sea and northwestern Pacific Ocean (BIO_P-4303)
- 16:20 **Thomas W. Therriault, Leif-Matthias Herborg and Cathryn L. Clarke**
Predicted changes in the distribution of the non-indigenous tunicate *Styela clava* along the west coast of North America with emphasis on Canadian waters (BIO_P-4458)
- 16:40 **Olga Yu. Tyurneva, Vladimir V. Vertyankin, Yuri M. Yakovlev, Valery A. Vladimirov and Vladimir N. Burkanov**
Occurrence of gray whales (*Eschrichtius robustus*) of the endangered western population off the east coast of the Kamchatka Peninsula (BIO_P-4150)
- 17:00 **Ryosuke Okamoto, Tsutomu Tamura, Kenji Konishi and Hidehiro Kato**
Differences in foods and feeding habits in common minke and sei whales in the western North Pacific based on samples collected under the JARPEN II survey project (BIO_P-4420)

BIO Paper Posters

- BIO_P-4055 **Tatyana A. Belan, Elena M. Latkovskaya and Alexey V. Berezov**
Composition and distribution pattern of benthic communities of Chayvo Bay (Northeast Sakhalin Island)
- BIO_P-4083 **Tatiana A. Mogilnikova, Elena M. Latkovskaya, Vladimir M. Pishchalnik, Tatiana G. Koreneva, I Ken Chi, Ludmila Yu. Gavrina, Izolda A. Mitrakovich, Maria A. Smirnova and Larisa P. Telepneva**
Microalgae development in a cold period in a coastal area of Aniva Bay
- BIO_P-4104 **Elena Dulepova and Vladimir Dulepov**
Long-term fluctuation of zooplankton bioproductivity in the western Bering Sea
- BIO_P-4128 **Vladimir I. Radchenko**
Estimation of diurnal vertical migration rate of the Sea of Okhotsk zooplankton with assumption of net avoidance
- BIO_P-4221 **A. Jason Phillips, Richard D. Brodeur and Andrey Suntsov**
Community structure of micronekton in the Northern California Current System
- BIO_P-4273 **Goh Onitsuka, Itsushi Uno, Tetsuo Yanagi and Jong-Hwan Yoon**
Effect of atmospheric nitrogen input on the lower trophic ecosystem in the Japan/East Sea
- BIO_P-4304 **Alexander V. Zavolokin, Natalya S. Kosenok and Igor I. Glebov**
Abundance, distribution and feeding habits of jellyfish in the upper epipelagial of the western Bering Sea
- BIO_P-4326 **Guoying Du, Yunhee Kang, Moonho Son, Jaeran Hwang, Soonmo An and Ikkyo Chung**
Spatio-temporal variation of intertidal microphytobenthos in the Nakdong Estuary, Korea
- BIO_P-4343 **Pung Guk Jang, Kyoungsoon Shin, Dong Hyun Shon, Woong-Seo Kim and Dongsup Lee**
Spatial and temporal distribution of inorganic nutrients and nutrient ratios as controls on composition of phytoplankton in the western channel of the Korea Strait
- BIO_P-4345 **Dong Hyun Shon, Kyoungsoon Shin, Pung Guk Jang, Young Ok Kim and Woong Seo Kim**
Effect of thermal stratification on phytoplankton community composition and nutrient limitation in the Korea Strait
- BIO_P-4478 **Hyung-Ku Kang, Chang Rae Lee and Sinjae Yoo**
Comparison of vertical distribution of suspended fecal pellets and production of copepod fecal pellets in the Ulleung Basin between 2005 and 2006
- BIO_P-4502 **Emiljano Rodhaj**
Fish farming development along the Adriatic coast of Albania