

FIS Paper Session

Convenor: Gordon H. Kruse (U.S.A.)

Papers addressing various topics in fishery science and fisheries oceanography in the North Pacific and its marginal seas (except S3, S4, S5, S7 and S11 topics) are invited.

Friday, November 2, 2007 09:00 – 17:20

- 09:00 **Rodrigo M. Montes, R. Ian Perry, E.A. Pakhomov and J.A. Boutillier**
Novel time series methods (fractals) applied to Eastern Pacific fisheries (FIS_P-4092)
- 09:20 **Inja Yeon, Myoung Ho Sohn, Mi Young Song, Hak Jin Hwang and Yang Jae Im**
Research program for stock rebuilding of blue crab, *Portunus trituberculatus*, in the western sea of Korea (FIS_P-4462)
- 09:40 **Alexander I. Glubokov**
Population structure of the Bering Sea pollock and functional structure of its range in recent decades (FIS_P-4036)
- 10:00 **Naoki Tojo, Akira Nishimura, Satoshi Honda, Tetsuichiro Funamoto, Seiji Katakura and Kazushi Miyashita**
Marine environment induced spatial dynamics of recruited walleye pollock juveniles (*Theragra chalcogramma*) and interactions with prey and predators along the Pacific coast of Hokkaido, Japan (FIS_P-4353)
- 10:20 **Toby D. Auth**
Distribution and community structure of ichthyoplankton from the northern and central California Current in May 2004–2006 (FIS_P-4041)
- 10:40 *Coffee / tea break*
- 11:00 **Leonardo Huato-Soberanis and Martha J. Haro-Garay**
Spawning migrations in fish: A case study of the sockeye salmon from the Fraser river in British Columbia (FIS_P-4107)
- 11:20 **Marc Trudel, David L. Mackas and Asit Mazumder**
Assessing the effects of ocean conditions on the growth and survival of Pacific salmon in British Columbia and Alaska (FIS_P-4044)
- 11:40 **Oleg Bulatov, Boris Kotenev, Georgiy Moiseenko and Vladimir Borisov**
The GIS method application for the stock assessment of the walleye pollock and the Northeast Arctic cod (FIS_P-4069)
- 12:00 **Woo-Seok Gwak**
Genetic approach for the assessment of a stock enhancement of Pacific cod (*Gadus macrocephalus*) (FIS_P-4218)
- 12:20 **Jung Jin Kim, Suam Kim and Hwa Hyun Lee**
Summer occurrence and transport process of common squid (*Todarodes pacificus*) paralarvae in the East China Sea (FIS_P-4265)

- 12:40 **Lunch**
- 14:00 **Nanami Kumagai, Hidetada Kiyofuji, Hideaki Kidokoro and Sei-Ichi Saitoh**
Prediction and of Japanese common squid (*Todarodes pacificus*) fishing grounds using generalized additive models in the Japan/East Sea (FIS_P-4322)
- 14:20 **Michael J. Schirripa**
Testing two methods of including environmental factors into stock assessments (FIS_P-4455)
- 14:40 **Edward J. Gregr, Rowenna Flinn, Mathew Bermann and Gaku Ishimura**
Predicting the relative abundance of pinniped prey in the Gulf of Alaska (FIS_P-4250)
- 15:00 **John R. Brandon, André E. Punt, Paul R. Wade, Wayne L. Perryman, Richard D. Methot, Mark N. Maunder and George M. Watters**
Integrating environmental data into marine mammal stock assessments: Application to the eastern North Pacific gray whale (FIS_P-4397)
- 15:20 **You Jung Kwon, D.H. An, C.I. Zhang and D.Y. Moon**
Standardization of CPUE for bigeye (*Thunnus obesus*) and yellowfin (*Thunnus albacares*) tunas of Korean longline fishery in the Indian Ocean (FIS_P-4275)
- 15:40 **Coffee / tea break**
- 16:00 **Sayaka Nakatsuka, Akinori Takasuka, Hiroshi Kubota and Yoshioki Oozeki**
Estimating daily ration of skipjack tuna on larval and juvenile anchovy in the Kuroshio–Oyashio transition region in early summer (FIS_P-4076)
- 16:20 **Mikhail A. Stepanenko, Elena V. Gritsay and Svetlana Yu. Glebova**
Impact of environment and exploitation on the interannual variability eastern Bering Sea pollock: Abundance and distribution (FIS_P-4032)
- 16:40 **Franz J. Mueter, Cecilie Broms, Ken Drinkwater, Kevin Friedland, Jon Hare, George Hunt Jr., Webjørn Melle and Maureen Taylor**
Comparison of 4 Northern Hemisphere regions: Ecosystem responses to recent oceanographic variability (FIS_P-4239)
- 17:00 **Sarah Gaichas, Georg Skaret, Jannike Falk-Petersen, Jason S. Link, William Overholtz, Bernard A. Megrey, Harald Gjøsæter, William Stockhausen, Are Dommasnes and Kerim Aydin**
A comparison of community and trophic structure in four marine ecosystems based on energy budgets and system metrics (FIS_P-4249)

FIS Paper Posters

- FIS_P-4056 **Nikolina Petkova Kovatcheva**
Maintenance of red king crab stocks in the North Pacific using mariculture methods
- FIS_P-4089 **Dae Sun Son, Chae Woo Ma and Wongyu Park**
Survival rate and growth of larval swimming crab, *Portunus trituberculartus*, in the laboratory
- FIS_P-4093 **Andrey Suntsov and Richard Brodeur**
Feeding ecology of three dominant lanternfish species (Myctophidae) off Oregon
- FIS_P-4094 **Rodrigo M. Montes, R. Ian Perry, E.A. Pakhomov and J.A. Boutillier**
Long-term patterns in sea surface temperature (SST) and smooth pink shrimp (*Pandalus jordani*) catches off the west coast of Vancouver Island, Canada
- FIS_P-4099 **Jie Zheng**
Temporal changes in size at maturity and their implications for fisheries management for eastern Bering Sea Tanner crab
- FIS_P-4119 **Galina V. Belova**
Spawning and fecundity of highly abundant fishes of the family Bathylagidae in the Russian Far Eastern seas and adjacent waters of the northwestern Pacific Ocean
- FIS_P-4130 **Yeonghye Kim, Dong Woo Lee, Seon Jae Hwang, Byung Kyu Hong, Soo Ha Choi**
Age and growth of Pacific cod, *Gadus macrocephalus* in the East/Japan Sea
- FIS_P-4181 **Yuya Yokoyama, Hideaki Kudo and Masahide Kaeriyama**
Estimating escapement and spawning capacity of pink salmon (*Oncorhynchus gorbuscha*) at rivers in the Shiretoko World Natural Heritage area
- FIS_P-4208 **Cindy A. Tribuzio and Gordon H. Kruse**
An alternative approach to estimating worn annuli for aging of spiny dogfish (*Squalus acanthias*) spines
- FIS_P-4214 **Jun Yamamoto, Miyuki Hirose, Tetsuya Ohtani, Katashi Sugimoto, Kazue Hirase, Nobuo Shimamoto, Tsuyoshi Shimura, Natsumi Honda, Yasuzumi Fujimori and Tohru Mukai**
Transportation of organic matter to the sea floor by carrion falls of the giant jellyfish (*Nemopilema nomurai*) in the Japan/East Sea
- FIS_P-4219 **Ryota Yokotani, Naotaka Imai, Hideaki Kudo and Masahide Kaeriyama**
Genetic differentiation between early-run and late-run populations of the Yurappu River chum salmon *Oncorhynchus keta* using the mitochondrial DNA analysis
- FIS_P-4220 **A. Jason Phillips, Stephen Ralston, Richard D. Brodeur, Toby D. Auth, Robert L. Emmett, Carrie J. Johnson and Vidar G. Weststad**
Recent pre-recruit Pacific hake (*Merluccius productus*) occurrences in the northern California Current suggest a northward expansion of their spawning area
- FIS_P-4267 **Masakazu Shinto, Hideaki Kudo and Masahide Kaeriyama**
Development of the olfactory organ in chum salmon (*Oncorhynchus keta*) during migration
- FIS_P-4277 **Jong Hee Lee and Chang-Ik Zhang**
A study on the assessment of the large purse seine fishery off Korea based on principles of the Marine Stewardship Council
- FIS_P-4285 **Marisa N.C. Litz, Robert L. Emmett, Selina S. Heppell and Richard D. Brodeur**
Ecological considerations for northern anchovy abundance and distribution in the northern California Current

- FIS_P-4287 **Carrie J. Johnson, Robert L. Emmett and Gordon McFarlane**
Jack mackerel (*Trachurus symmetricus*) abundance, distribution, diet, and associated relationships to oceanographic conditions in the northern California Current
- FIS_P-4298 **Dongwha Sohn, Lorenzo Ciannelli, Janet Duffy-Anderson, Ann Matarese and Kevin M. Bailey**
Distribution and drift pathways of Greenland halibut, *Reinhardtius hippoglossoides*, during early life stage in the eastern Bering Sea
- FIS_P-4310 **Joo-il Kim, Young-il Seo and Sukgeun Jung**
Daily biomass and production of Pacific anchovy, *Engraulis japonicus*, in the southern coastal area of Korea
- FIS_P-4311 **Sukgeun Jung**
Yield-per-recruitment of Pacific anchovy (*Engraulis japonicus*) in Korean coastal waters
- FIS_P-4312 **Sukgeun Jung, Sun-do Hwang, Joo-il Kim, Young-il Seo and Jin-yeong Kim**
Fecundity and growth-dependent mortality of Pacific anchovy (*Engraulis japonicus*)
- FIS_P-4330 **Kenji Minami, Kazushi Miyashita, Akira Hamano, Takeshi Nakamura, Yuta Maruoka and Hiroki Yasuma**
Acoustic measurement of *Sargassum* beds in coastal area of western Honshu, Japan
- FIS_P-4388 **Bernard A. Megrey, Jon Hare, Are Dommasnes, Harald Gjøsæter, William Stockhausen, William Overholtz, Sarah Gaichas, Georg Skaret, Jannike Falk-Petersen, Jason S. Link and Kevin Friedland**
Recruitment variation in functionally equivalent fish stocks: A cross-ecosystem comparison
- FIS_P-4396 **Richard D. Brodeur, E. Howell, J. Polovina, L. Ciannelli, W.G. Percy, R.M. Laurs and J. Childers**
Spatial and temporal variations in albacore habitat in the Northeast Pacific using remotely-sensed environmental data
- FIS_P-4436 **Eugene V. Samko, Nafanail V. Bulatov and Alexander V. Kapshiter**
Anticyclonic eddies of various origin southeastward from Hokkaido and their influence on saury fishery