

Monday, 22 February 2010

Mombetsu Arts & Culture Center

Place: 1F Garinko

9:00	【 OPENING ADDRESS 】 Yoshikazu Miyakawa (Mayor of Mombetsu City) and Masaaki Aota (Chair, Okhotsk Sea & Cold Ocean Res. Association) 【 K: KEYNOTE LECTURES 】 Chair : Masaaki Aota (Okhotsk Sea Ice Museum of Hokkaido)
9:10	K-1 The Amur-Okhotsk consortium for the conservation of the Sea of Okhotsk and Amur River Basin Takayuki Shiraiwa (Res. Inst. for Humanity and Nature) and the Amur-Okhotsk Project members
9:50	K-2 Numerical prediction of sea ice change in the Sea of Okhotsk Hajime Yamaguchi (Graduate School of Frontier Sci., The Univ. of Tokyo)
10:30	K-3 Dual doppler radar observation of thick cloud bands developed along the Hokkaido coast in the Sea of Okhotsk ◇ Yasushi Fujiyoshi, Takuya Kamisho and Masayuki Kawashima (Inst. Low Temp. Sci., Hokkaido Univ.)
11:10	BREAK
	【 A : SEA ICE & CREATURE IN THE OKHOTSK SEA 】 Chair : Masaaki Aota (Okhotsk Sea Ice Museum of Hokkaido)
11:20	A-1 Sea-ice extent variations along the Okhotsk coast of Hokkaido and Shiretoko Peninsula's "Dam Effect" against sea ice flow ◇ Shuhei Takahashi, Tomofumi Kosugi, Akira Hori (Kitami Inst. of Technology)
11:40	A-2 Migration and diving behavior of spotted seals on Okhotsk Mari Kobayashi (Tokyo Univ. of Agriculture)
12:00	LUNCH
13:30	【 ON NORTHERN PEOPLE 】 <i>(in Japanese language only)</i> Lecture: Origin and history of the Okhotsk people, inferred from genetic features Ryuichi Masuda (Faculty of Sci., Hokkaido Univ.) Into the world of the Ainu Traditional Dances and Songs Explanation: Jirota Kitahara (The Ainu Museum) Dances and Songs: Team Nikaop
18:30	WHITE CONCERT < OKHOTSK SEA ICE MUSEUM >

Monday, 22 February 2010

Mombetsu Arts & Culture Center

Place: 3F Sea Ice

12:00	LUNCH
13:00	[OKHOTSK REGIONAL NATURAL PARK INITIATIVE] <i>(in Japanese language only)</i>
18:30	WHITE CONCERT < OKHOTSK SEA ICE MUSEUM>

10:00	【WORKSHOP: FOREST-VILLAGE-SEA CHAIN STUDIES】 <i>(in Japanese language only)</i>
12:00	LUNCH
13:00	【C : ARCTIC OCEAN NAVIGATION】 Chair : Kazutaka Tateyama (Kitami Inst. of Technology) 『SPECIAL LECTURES』
13:00	K-4 Ships in ice Hiromitsu Kitagawa (Ocean Policy Res. Foundation)
13:40	BREAK
13:50	C-1 On the future arctic merchant ship navigation Hidetoshi Sueoka (The Univ. of Tokyo)
14:10	C-2 A numerical estimation of sailing days along the Northern Sea Route: difference due to past and present ice condition data ◇Yohei Tanaka, Hajime Yamaguchi, Ayumi Fujisaki and Noriaki Kimura (Graduate School of Frontier Sci., The Univ. of Tokyo)
14:30	C-3 Ice Routeing for safe navigation in ice-covered seas ◇Genki Sagawa, Daisuke Abe and Yasumi Nakai (Weathernews Inc.)
14:50	C-4 Interannual changes in sea ice conditions and seasonal navigable period of the arctic sea routes obtained by satellite microwave data ◇Hiroki Shibata, Kazutaka Tateyama and Hiroyuki Enomoto (Kitami Inst. of Technology)
15:10	C-5 Arctic shipping and logistics changes Hiromitsu Kitagawa (Ocean Policy Res. Foundation)
15:30	BREAK
	Chair : Noriaki Kimura (The Univ. of Tokyo)
15:40	C-6 Problems of statistical decisions in geoinformation monitoring F. A. Mkrtchyan (V.A. Kotelnikov's Inst. of Radioengineering & Electronics, RAS, Russia)
16:00	C-7 Relationship between winter ice motion and summer ice distribution in the Arctic Noriaki Kimura (Graduate School of Frontier Sci., The Univ. of Tokyo), ◇Shuhei Takaishi (Faculty of Engineering, The Univ. of Tokyo) and Hajime Yamaguchi (Graduate School of Frontier Sci., The Univ. of Tokyo)
16:20	C-8 Western Arctic sea ice thinning - Results from field observations and satellite remote sensing ◇Kazutaka Tateyama, Hiroyuki Enomoto (Kitami Inst. of Technology) and Kunio Shirasawa (Inst. Low Temp. Sci., Hokkaido Univ.)
16:40	C-9 A note on spray generation from white caps Hiromitsu Kitagawa (Ocean Policy Res. Foundation)
18:30	DINNER PARTY FOR FRIENDSHIP BETWEEN SCIENTISTS & VOLUNTEERS <MOMBETSU CENTRAL HOTEL>

9:00	<p>【B : OIL POLLUTION, SEA ICE, REMOTE SENSING】 Chair : Kunio Shirasawa (Hokkaido Univ.)</p> <p>B-1 R & D study of NMRI-ORDICE ◇Koh Izumiyama, Shigeo Kanada, Haruhito Shimoda, Daisuke Wako and Takatoshi Matsuzawa (Natl. Maritime Res. Inst.)</p> <p>9:20 B-2 Numerical prediction of spilled oil behavior in the Sea of Okhotsk under ice-covered condition ◇Masao Kawauchi, Hajime Yamaguchi and Noriaki Kimura (Graduate School of Frontier Sci., The Univ. of Tokyo)</p> <p>9:40 B-3 An adaptive system of detection and identification pollutants in water environment on the basis multi-channel spectropolarimeter (MSP) ◇F. A. Mkrtychyan, V. F. Krapivin, V. I. Kovalev, V. V. Klimov (V.A. Kotelnikov's Inst. of Radioengineering & Electronics, Russia) and S. M. Shapovalov (Inst. of Oceanology, Russia)</p> <p>10:00 B-4 Relation between sea-ice motion vectors derived automatically from geostationary meteorological satellite data and sea surface winds estimated from numerical model ◇Takayuki Kato, Kenichi Nakagawa, Yoshihiko Yamanaka (Sapporo District Meteorological Observatory, JMA) and Hideaki Fukushima (Global Environment & Mar. Dept. of JMA)</p>
10:20	BREAK
10:30	<p style="text-align: right;">Chair : Koh Izumiyama (Natl. Maritime Res. Inst.)</p> <p>B-5 Ice edge dynamics from C-band radar and HF radar coastal stations ◇Kunio Shirasawa, Naoto Ebuchi (Inst. Low Temp. Sci., Hokkaido Univ.), Matti Leppäranta (Dept. of Physics, Helsinki Univ., Finland), Masao Ishikawa and Toru Takatsuka (Inst. Low Temp. Sci., Hokkaido Univ.)</p> <p>10:50 B-6 Studies of the frequency spectrum of sea ice velocity in the Sea of Okhotsk ◇Matti Leppäranta, Annu Oikkonen (Dept. of Physics, Univ. of Helsinki, Finland) and Kunio Shirasawa (Inst. Low Temp. Sci., Hokkaido Univ.)</p> <p>11:10 B-7 Transition in five years of ice thickness measured by ship-borne EM sounding in the southern Sea of Okhotsk ◇Takatoshi Matsuzawa, Haruhito Shimoda, Daisuke Wako, Tadanori Takimoto and Koh Izumiyama (Natl. Maritime Res. Inst.)</p>
12:00	LUNCH
13:00	<p>【FORUM: OIL POLLUTION】 <i>(in Japanese language only)</i></p> <p>Correspondence to the Oil Spill on the Hokkaido Northern Sea 『OPENING ADDRESS』 Satoshi Ono (Hokkai Minyu News)</p> <p>『SPECIAL LECTURES』</p> <p>K-5 A system for numerical prediction of spilled oil behavior in the Sea of Okhotsk including ice-covered condition ◇Hajime Yamaguchi (Univ. of Tokyo), Jun Ono (Ehime Univ.), Kay I. Ohshima (Hokkaido Univ.) and Akira Kurokawa (ENAA)</p> <p>W-1 Sakhalin-2 Project : Oil spill response activities in operation phase Daisuke Uezono (Sakhalin Energy)</p> <p>W-2 Case study for oil spill accident Kuniaki Sasaki (Oil pollution Consulting)</p> <p>W-3 Simplified small on board oil recovery devices Kenichi Sakurai (Oil Pollution Fund for Fisheries)</p> <p>W-4 Oil biodegradation disposal system with bark compost Masaki Saito (Oita Industrial Res. Inst.)</p> <p>W-5 Reduction of ship's traffic risk in the Soya Strait Shin Onuki (The Japan Assoc. of Mar. Safety)</p> <p>W-6 Risk- reduction strategy by wide range AIS data monitoring for vessel with hazardous materials Nobuhiro Sawano (Seiryō Women's Junior College)</p> <p>W-7 Energy development in eastern siberia/ the far east and Japan-Russia energy cooperation Tadashi Maeda (JBIC)</p> <p>W-8 Public involvement for oil spill response with government sector Shintaro Goto (Rissho Univ.)</p>
18:30	DINNER PARTY FOR FRIENDSHIP BETWEEN SCIENTISTS & VOLUNTEERS <MOMBETSU CENTRAL HOTEL>

<p>9:00</p>	<p>【NATURE AND LIFE - OUR HOME OKHOTSK SEA - PART 1】 <i>(in Japanese language only)</i> Chair : Toshiyuki Iida (Hokkaido Abashiri Fisheries Experiment Station)</p>
<p>12:00</p>	<p>LUNCH</p>
<p>13:00</p>	<p>【NATURE AND LIFE - OUR HOME OKHOTSK SEA - PART 2】 <i>(in Japanese language only)</i> Chair : Hitomi Takagishi (Okhotsk Sea Ice Museum of Hokkaido)</p> <p>Recover Mombetsu -Play on the seashore, go up a river- Report of the outdoor education by the Sea Ice Museum Takashi Kuwabara (Okhotsk Sea Ice Museum of Hokkaido)</p> <p style="text-align: right;">Chair : Yoshitsugu Hirosaki (Okhotsk Tokkari Center)</p> <p>Water testing in the aquarium pools at the Okhotsk Tokkari (Seal) Center ◇Seiji Katakura and Kentaro Okutsu (City of Mombetsu)</p> <p>Phocine lung mites <i>Halarachne halichoeri</i> found to be parasitic on the bearded seal <i>Ergnathus barbatus</i> and the spotted seal <i>Phoca largha</i> in captivity ◇Masae Takaishi (Okhotsk Tokkari Center), Takashi Iwaki (Meguro Parasitological Museum) and Yoshitsugu Hirosaki (Okhotsk Tokkari Center)</p> <p>Changes in the measured sizes of the abdomen of the 2 female spotted seals <i>Phoca largha</i> in which mating behavior was observed ◇Natsuki Miyazawa and Yoshitsugu Hirosaki (Okhotsk Tokkari Center)</p> <p>Training the male spotted seals <i>Phoca largha</i> to respond to the ring of bell ◇Hironori Ono and Yoshitsugu Hirosaki (Okhotsk Tokkari Center)</p> <p>Progress of rearing a ribbon seal pup <i>Phoca fasciata</i> ◇Nami Tomisawa and Yoshitsugu Hirosaki (Okhotsk Tokkari Center)</p> <p>Breeding and behavior of ringed seal (<i>Phoca largha</i>) Kazuto Kozaki (Otaru Aquarium)</p> <p>Harbor seal (<i>Phoca vitulina</i>) around Cape Erimo Shinya Ishikawa (Erimo-Misaki “KAZE NO YAKATA”)</p>

	<p>【D : OKHOTSK SEA, SEA ICE, REMOTE SENSING】 Chair : Akihisa Konno (Kogakuin Univ.)</p>
9:00	<p>D-1 A new method of sea ice analysis in the Sea of Okhotsk ◇Masatoshi Chikasawa, Hideaki Fukushima and Hiroshi Kunimatsu (Office of Marine Prediction, Japan Meteorological Agency)</p>
9:20	<p>D-2 Sea ice tracks in the Sea of Okhotsk derived from satellite images Noriaki Kimura (Graduate School of Frontier Sci., The Univ. of Tokyo)</p>
9:40	<p>D-3 MOERI's ice model basin facilities and test procedures ◇Chun-Ju Lee, Seong-Rak Cho and Eun-Jee Chun (Maritime & Ocean Engineering Res. Inst., Korea)</p>
10:00	<p>D-4 Seasonal changes in temperature and salinity fields (summer-autumn) on the northeastern shelf of Sakhalin Island related to east Sakhalin current autumn amplification ◇George Shevchenko (Inst. of Marine Geology & Geophysics, Russia) and Valery Chastikov (Sakhalin Res. Inst. of Fisheries & Oceanography, Russia)</p>
10:20	<p>BREAK</p>
	<p>Chair : Natsuhiko Otsuka (North Japan Port Consultants Co., Ltd.)</p>
10:30	<p>D-5 Seasonal variations of sea state off Sannri-hama, Nemuro and the east Hokkaido coastal current ◇Yutaka Nagata (Mar. Inform. Res. Center, JPN Hydrographic Assoc.), Sachiko Oguma (Hokkido Natl. Fish. Res. Inst.), Keiichi Nagase, Kimihiro Aikawa and Isao Hakata (Nemuro City Fish. Res. Inst.)</p>
10:50	<p>D-6 Interannual variability of seawater circulation in the northern Okhotsk Sea in 1996 to 2009 ◇Igor A. Zhigalov (TINRO-Centre, Russia) and Vladimir A. Luchin (Pacific Oceanological Inst., Russia)</p>
11:10	<p>D-7 Preparation method of numerical ice channel and its evaluation for simulation of navigation in ice ◇Akihisa Konno and Osamu Saitoh (Kogakuin Univ.)</p>
12:00	<p>LUNCH</p>
	<p>【A : SEA ICE & CREATURE IN THE OKHOTSK SEA】 Chair : Hajime Yamaguchi (The Univ. of Tokyo)</p>
13:00	<p>A-3 Updated answer to the question "Why does the Sea of Okhotsk get frozen?" ◇Makoto Kashiwai (Tokyo Univ. of Agriculture) and Masaaki Aota (Okhotsk Sea Ice Museum of Hokkaido)</p>
13:20	<p>A-4 Diving observation on under-ice melt pond beneath the shore ice floe field, at Utoro, Shiretoko Peninsula ◇Makoto Kashiwai (Tokyo Univ. of Agriculture), Yuji Igarashi (Mar. & Outdoor Tartaruga) and Isao Abe (Sports Scuba-diver)</p>
13:40	<p>A-5 Effect of wind and sea ice distribution on the migration route of White-tailed Sea Eagle (<i>Haliaeetus albicilla</i>) ◇Shuko Takahashi, Hajime Yamaguchi and Noriaki Kimura (Graduate School of Frontier Sci., The Univ. of Tokyo)</p>
14:00	<p>A-6 A new system for monitoring the marine ecology in the sea-ice edge region by sea eagles equipped with data loggers ◇Kei Matsumoto (Kitami Inst. of Technology), Masahide Kaeriyama (Graduate school of Fish. Sci., Hokkaido Univ.), Keisuke Saitoh (Inst. for Raptor Biomedicine Japan), Kenichiro Shimatani (The Inst. of Statistical Mathematics) and Hiroyuki Enomoto (Kitami Inst. of Technology)</p>

	<p>【 E : OKHOTAK SEA, MONITORING, FISHERIES】 Chair : Ikutaro Shimizu (Natl. Res. Inst. Fish. Sci.)</p> <p>『Seasonal variability in the structure of lower trophic production and its relation with the food availability of boreal fishes in the waters around Mombetsu, southwestern Okhotsk Sea』</p>
9:00	<p>E-1 I. Joint research 2008-2009 by Hokkaido National Fisheries Research Institute (Fisheries Research Agency) and City of Mombetsu ◇Seiji Katakura (City of Mombetsu), Hiromi Kasai (Hokkaido Natl. Fish. Res. Inst.), Ryuichi Nagata (Okhotsk Garinko & Tower Co., Ltd.), Soshi Hamaoka (City of Mombetsu), Ikutaro Shimizu and Kazumasa Hirakawa (Natl. Res. Inst. Fish. Sci.)</p>
9:20	<p>E-2 II. Seasonal variability in oceanographic environments and primary production from the coastal to offshore waters ◇Hiromi Kasai (Hokkaido Natl. Fish. Res. Inst.), Ryuichi Nagata (Okhotsk Garinko & Tower Co., Ltd.), Seiji Katakura, Soshi Hamaoka (City of Mombetsu) and Kazumasa Hirakawa (Natl. Res. Inst. Fish. Sci.)</p>
9:40	<p>E-3 III. Seasonal variability in oceanographic environments in the inshore waters ◇Ryuichi Nagata (Okhotsk Garinko & Tower Co., Ltd.), Hiromi Kasai (Hokkaido Natl. Fish. Res. Inst.), Seiji Katakura, Soshi Hamaoka (City of Mombetsu) and Kazumasa Hirakawa (Natl. Res. Inst. Fish. Sci.)</p> <p style="text-align: right;">Chair : Tsuneo Nishiyama (Tokai Univ.)</p>
10:00	<p>E-4 IV. Seasonal variability in zooplankton community, with special reference to copepods in the inshore waters ◇Soshi Hamaoka, Seiji Katakura (City of Mombetsu), Ryuichi Nagata (Okhotsk Garinko & Tower Co., Ltd.) and Kazumasa Hirakawa (Natl. Res. Inst. Fish. Sci.)</p>
10:20	<p>E-5 V. Plankton production structure and its relation with the feeding conditions of juvenile chum salmon in the inshore waters ◇Kazumasa Hirakawa (Natl. Res. Inst. Fish. Sci.), Toshiki Kaga (Natl. Salmon Resources Center), Ikutaro Shimizu (Natl. Res. Inst. Fish. Sci.), Seiji Katakura (City of Mombetsu), Ryuichi Nagata (Okhotsk Garinko & Tower Co., Ltd.), Hiromi Kasai (Hokkaido Natl. Fish. Res. Inst.) and Soshi Hamaoka (City of Mombetsu)</p>
10:40	BREAK
10:50	<p>E-6 Horizontal variation of fish species diversity in Okhotsk trawl fishing ground ◇Tomonori Hamatsu (Hokkaido Natl. Fish. Res. Inst.), Seiji Katakura (City of Mombetsu) and Shigeru Shirai (Tokyo Univ. of Agriculture)</p>
11:10	<p>E-7 Peculiarities of spatial-functional structure of king crab Ayan-Shantar population area Igor S. Chernienko (Khabarovsk Branch Pacific Res. Fish. Center, Russia)</p>
11:30	<p>E-8 Socioeconomic study of the effects of global warming on marine product branding Ikutaro Shimizu (Natl. Res. Inst. Fish. Sci.)</p>
12:00	CLOSING ADDRESS

	<p>【 F : OKHOTSK SEA, SEA ICE 】 Chair : Yutaka Nagata (Mar. Inform. Res. Center) and Makoto Kashiwai (Tokyo Univ. of Agriculture)</p>
9:00	<p>F-1 Comparison study on resistance performance of icebreaking cargo vessel with synthetic ice according to the variation of hull form and ice thickness ◇Moon-Chan Kim, Seung-Ho Lee and Byung-Chul Shin (Pusan Natl. Univ., Korea)</p>
9:20	<p>F-2 Northern sea route transit analysis for large cargo vessels ◇Kyungsik Choi, Jong-Ho Nam, Young-Jin Park, Jeong-Seok Ha (Korea Maritime Univ., Korea) and Seong-Yeob Jeong (Maritime & Ocean Engineering Res. Inst., Korea)</p>
9:40	BREAK
9:50	<p>【 G: RESEARCH STUDIES AT DEPARTMENT OF MARINE BIOLOGY AND SCIENCES, TOKAI UNIVERSITY 】</p> <p>G-1 Responses to stimuli from the totally isolated fish stomach using an in vitro culture method Minoru Kihara (Tokai Univ.)</p> <p>G-2 Diel movement of brown trout (<i>Salmo trutta</i>) in Lake Shikotsu in November 2008 Taeko Togashi (Tokai University)</p> <p>G-3 Movement of brown trout (<i>Salmo trutta</i>) in Lake Shikotsu from November 2009 to January 2010 Kazuya Sawazaki (Tokai Univ.)</p> <p>G-4 Intrusion of low potential vorticity water into intermediate layer in the Oyashio region southeast of Hokkaido Japan revealed by sequential observation in April 2007 Masatoshi Sato (Tokai Univ.)</p> <p>G-5 A mixing analysis of surface water in the Oyashio region: its implications and application to variations of the spring bloom Kouhei Matsumori (Tokai Univ.)</p> <p>G-6 Sink of forerunner of soya warm current water into the intermediate layer of the Okhotsk Sea Emi Shiraishi (Tokai Univ.)</p> <p>G-7 High salinity intermediate waters off west Hokkaido in the Japan/East Sea in summer from 2001 to 2007 Yuki Makizono (Tokai Univ.)</p> <p>G-8 Diel variability of temperature on the south coasts of Akashima in Kerama Islands Ryutaro Honma (Tokai Univ.)</p>
12:00	CLOSING ADDRESS <1F Garinko>

POSTER SESSION

- P-1** Predictability of south edge of Okhotsk sea-ice extent in investigating interannual variability of atmosphere
Kenichi Nakagawa (Sapporo District Meteorological Observatory, Japan Meteorological Agency)
- P-2** Change of character of winter cyclonic activity over the Asian-Pacific region in 1996-2009 and its influence on a thermal regime of the Far East Seas
Svetlana Yu. Glebova (TINRO-Centre, Russia)
- P-3** Tendency of climate variations in the Arctic
Andrey A. Bobkov (Faculty of Geography & Geoecology, Saint-Petersburg State Univ., Russia), Vadim V. Drabkin and Vasily K. Kurazhov (Arctic and Antarctic Res. Inst., Russia)
- P-4** Thermohaline structure of waters of the Kuril Basin
Irina V. Mashkina, Anatoly N. Salyuk and Igor A. Zhabin (V.I.II'ichev Pacific Oceanological Inst., Russia)
- P-5** Long-term changes and possible reasons of salinity decrease in the south part of Sea of Japan (East Sea) in 1965-2000
Boris S. Dyakov (TINRO-Centre, Russia)
- P-6** The primary factors determining the ice cover evolution in the Japan Sea
Svetlana P. Shkorba (Ice Res. Lab., V.I.II'ichev Pacific Oceanological Inst., Russia)
- P-7** Analysis of tipizations of spatio-temporal distributions of ice areas, ice volumes and ice areas (as a result of ice hummocking), according to ice thicknesses in Bering Sea
Nadezda M. Vakulskaya (Ice Res. Lab., V.I.II'ichev Pacific Oceanological Inst., Russia)
- P-8** Modeling of freezing and melting hummocks on shelf of Sakhalin Island
O. M. Andreev, B. V. Ivanov and E. Y. Mironov (Arctic and Antarctic Res. Inst., Russia)
- P-9** Some data of biology and distribution of Shirauo, Salangichthys microdon, larvae in Sakhalin waters
Olga Nikolayevna Moukhametova (Sakhalin Res. Inst. of Marine Fishery & Oceanography, Russia)
- P-10** The joint analysis of the Japanese flying squid distribution and satellite altimetry data in the Japan Sea
Eu. V. Samko and A.V. Kapshiter (TINRO-Centre, Russia)
- P-11** Carbonate parameters of the Arctic Ocean waters
Pipko Irina Ivanovna, Pugach Svetlana Petrovna and Semiletov Igor Petrovich (V.I.II'ichev Pacific Oceanological Inst., Russia)