Monday, 20 February 2006 Mombetsu Arts & Culture Center Place: 1F Garinko

9:00	**【OPENING ADDRESS】** M. Aota (Chair, Okhotsk Sea & Cold Ocean Res. Association)
9:10	**【KEYNOTE ADDRESS】** Interpretation by M. Aota Sea ice drift: Status and problems: M. Leppäranta (Univ. of Helsinki, Finland)
9:40	BREAK
	【OPRF SPECIAL SESSION】 Natural Resources and Environment of the Sea of Okhotsk -JANSROP-GIS: A Gateway to the North-
10:00	What is the OPRF? M. Akiyama (Chairman, Ocean Policy Res. Foundation)
10:10	Development of Far East Russia in coming few decades; could Hokkaido have the initiative in this matter?: H. Kitagawa (Former Professor of Hokkaido Univ.)
10:30	How to get familiar with wild but resources-rich regions in Russia: K. Kamesaki and Y. Yamauchi (Universal Shipbuilding Corporation)
10:50	What future should we guess for the Sea of Okhotsk?: K. Izumiyama (Ntl. Maritime Res. Inst.)
11:10	Taste of far east Russia - My encounter with fishes in the region-: N. Otsuka (North Japan Port Consultants Co., Ltd.)
11:30	Living in Viking's Land: Y. Ohta (Norwegian Polar Ins., Norway)
12:10	Lessons to be learned from the Songhua River accident: (Land-based chemical pollution of seas through rivers): All of above-mentioned presenters *OPRF: Ocean Policy Research Foundation*
12:30	LUNCH
	【ON NORTHERN PEOPLE】 ***(in Japanese language only)*** Chair: T. Yoshikawa
13:30	History and culture of Sakhalin Ainu: M. Tamura (Historical Museum of Hokkaido)
14:30	Handicraft of Sakhalin Ainu: J. Kitahara (The Ainu. Museum)
15:30	BREAK
15:40	Songs and musical instruments of Sakhalin Ainu: T. Fujiwara (Musician)
18:30	White Concert <Sea Ice Museum>

9:00	
12:00	LUNCH
	【A: ANIMAL & PLANTS, FISHERIES, SEA ICE, METEOROLOGY IN THE OKHOTSK SEA】 Chair, T. Nishiyama (Hokkaido Tokai Univ.)
13:00	**A-1** Modeling study of Okhotsk Sea in Nemuro City Hanasaki program: M. Kashiwai, (Fish.-Oceanography Res. Studio "Oyashio Ya"), Y. Nagata (Mar. Inf. Res. Center), M. Kishi, S. Morishima and T. Okunishi (Hokkaido Univ.)
13:20	**A-2** Modeling of larval transport of Hanasaki Crab (Paralithodes brevipes) in the Okhotsk Sea: S. Morishima (Hokkaido Univ.), M. Kashiwai (Fish. - Oceanography Res. Studio "Oyashio Ya"), T. Okunishi and M. Kishi (Hokkaido Univ.)
13:40	**A-3** Seasonal variation in seas near Nemuro: I. Hakata, K. Aikawa (Nemuro City Fish. Res. Inst.) and Y. Nagata (Mar. Inf. Res. Center)
14:00	**A-4** Sedimentation from seasonal sea ice: Particle flux at an offshore of Mombetsu in the Okhotsk coast of Hokkaido, Japan: T. Hiwatari (Ntl. Inst. for Environmental Studies), K. Shirasawa, Y. Fukamachi (Hokkaido Univ.), R. Nagata (Okhotsk Garinko Tower), H. Koshikawa and K. Kohata (Ntl. Inst. for Environmental Studies)
14:20	**A-5** Chemical environment to support a high productivity in the coastal region of Okhotsk Sea: I. Kudo, K. Sakamoto, N. Bessho, N. Kobayashi and S. Montani (Hokkaido Univ.)
14:40	BREAK
	Chair, Y. Nagata (Mar. Inf. Res. Center)
14:50	**A-6** Cyclicity in formation of the types of synoptic situation over the Far East Seas as a factor of their ecosystems changes: S.Y. Glebova (Pacific Res. Fish. Center, Russia)
15:10	**A-7** Contribution of sea ice to spring biological production in Nemuro Strait located at the east of Shiretoko Peninsula, Hokkaido: I. Shimizu, J. Seki and T. Saito (Ntl. Salmon Resources Center)
15:30	**A-8** On the climatology of the seasonal sea ice zone: M. Leppäranta (Univ. of Helsinki, Finland) and K. Shirasawa (Hokkaido Univ.)
15:50	**A-9** Sea ice production in the Okhotsk Sea and its relation to interannual variability of Okhotsk Sea and North Pacific intermediate water: K. Ohshima, T. Nakanowatari, S. Nihashi, M. Wakatsuchi (Hokkaido Univ.), M. Itoh (JAMSTEC) and S.C. Riser (Univ. of Washington, USA)
16:10	**A-10** Interannual variability of thermic conditions of the subsurface water of the Okhotsk Sea: I.A. Zhigalov and V.A. Luchin (Pacific Res. Fish. Center, Russia)
16:30	**A-11** Interactions between Asian summer monsoon, north Atlantic climate, and drift ice in the Okhotsk Sea during the last 16 kyr: R. Tiedemann, N. Biebow (Alfred-Wegener-Inst. of Polar and Mar. Res., Germany), L. Lembke, D. Nürnberg, R. Kozdon (Univ. Kiel, Germany), U. Kokfelt (Lund Univ., Sweden), C. Dullo (Univ. Kiel, Germany) and U. Röh (Univ. Bremen, Germany)
18:30	White Concert <Sea Ice Museum>

Tuesday, 21 February 2006 Mombetsu Arts & Culture Center Place: 1F Garinko

9:00	**【FORUM: THE OKHOTSK SEA - OUR HOME SEA】** ***(in Japanese language only)*** Chair: H. Maruyama (Hokkaido Abashiri Fish. Experimental Station) Survivals of juvenile salmon related to coastal environments in the Okhotsk Sea: M. Nagata (Hokkaido Fish. Hatchery) Sandy beach, a nursery ground for coastal fishes: Sandy beach ichthyofauna of Mombetsu: Y. Suda (Ntl. Fish. Univ.)
11:00	**【B: SEALS】** ***(in Japanese language only)*** Chair, Y. Hirosaki (Aquatic Wildlife Breeding Center) **B-1** Introduction to saels: Y. Hirosaki (Aquatic Wildlife Breeding Center) **B-2** Behavior of seals on a running vehicle: S. Hara, A. Kanno, M. Takaishi, S. Nishi and Y. Hirosaki (Aquatic Wildlife Breeding Center) **B-3** Blood constituent data on spotted seals *Phoca largha* under protection: A. Kanno and Y. Hirosaki (Aquatic Wildlife Breeding Center) **B-4** Amount of excrement of a spotted seal *Phoca largha*: M. Takaishi and Y. Hirosaki (Aquatic Wildlife Breeding Center) **B-5** Relationship between visual stimulus and changes in appetite of seals: S. Nishi and Y. Hirosaki (Aquatic Wildlife Breeding Center)
12:00	LUNCH
13:00	**【OPEN FORUM: OIL POLLUTION】** ***(in Japanese language only)*** **Keep the Okhotsk Sea clean forever** Chair, T. Niinuma (Hokkai Minyu News)
18:00	Dinner Party for friendship between Scientists & Volunteers < Restaurant Royal Palace >

Tuesday, 21 February 2006 Mombetsu Arts & Culture Center Place: 3F Sea Ice

	【C: ICE ENGINEERING, NAVIGATION IN ICE-COVERED SEA, SEA ICE】 Chair, N. Ostuka (North Japan Port Consultants Co., Ltd.)
9:00	**C-1** A new concept structure to break ice for protecting vertical oil piles in beach: Z. Li, X. Kong (Dalian Maritime Univ., China), L. Zhang and G. Li (Dalian Univ. of Tech., China)
9:20	**C-2** Concept for Ice-Covered Sea Routes ~Economic effect of the establishment of ice-covered sea routes~: T. Sekino, T. Uehara, K. Goto, J. Sumie (Cold Region Port and Harbor Res. Center), N. Ostuka and A. Tanaka (North Japan Port Consultants Co., Ltd.)
9:40	**C-3** Ships in ice - solutions from an enhanced finite element methodology Part I - numerical development and modeling philosophy: A. Derradji-Aouat (Ntl. Res. Council, Canada)
10:00	**C-4** Investigation of topography of ice pile-up along a beach in Liaodong Gulf: X. Wang, R. Lei, Z. Li (Dalian Univ. of Tech., China) and X. Kong (Dalian Maritime Univ., China)
10:20	**C-5** On the numerical analysis of flow around ice piece moving near icebreaker hull -Second report: Application of physically-based modeling to simulation of ice movement: A. Konno and T. Mizuki (Kogakuin Univ.)
10:40	BREAK
	Chair, K. Izumiyama (Ntl. Maritime Res. Inst.)
10:50	**C-6** Sea ice thickness measurement from the ice breaker Garinko-2 using a stereo imaging system: K. Cho, N. Takeda, Y. Yano and H. Shimoda (Tokai Univ.)
11:10	**C-7** Simulation method of ice bottom topography on Okhotsk Sea coast of Hokkaido: S. Kioka, Y. Yamamoto (Civil Eng. Res. Inst. of Hokkaido) and S. Sakai (Iwate Univ.)
11:30	**C-8** Mapping and characterization of recurring spring leads and landfast ice in the Beaufort and Chukchi Seas, Alaska: H. Eicken, L. Shapiro (Univ. of Alaska, USA), A.G. Graves (Nuna Technologies, USA), A. Mahoney and P. Cotter (Univ. of Alaska, USA)
12:00	LUNCH
	【D: GAS IN THE OKHOTSK SEA, SEA ICE, REMOTE SENSING】 Chair, M. Matsuyama (Tokyo Univ. of Mar. Sci. and Tech.)
13:00	**D-1** Air-sea exchange of methane in the Sea of Okhotsk near Japan coast during drift ice season: M. Sasaki, N. Endoh, K. Tateyama and N. Watanabe (Kitami Inst. of Tech.)
13:20	**D-2** Relation between methane flux and gas hydrate in the Sea of Okhotsk: A. Obzhirov, A. Salomatin, A. Salyuk, (V.I.Il'ichev Pacific Oceanological Inst., Russia), Y.K. Jin (Korea Polar Res. Inst., Korea), H. Shoji (Kitami Institute of Tech.) and N. Biebow (Alfred-Wegener-Inst. of Polar and Mar. Res., Germany)
13:40	**D-3** Numerical simulation for development of polycrystal microstructure of sea ice and brine formation by salinity concentration: Y. Kawano and T. Ohashi (Kitami Inst. of Tech.)
14:00	**D-4** Availability of remote sensing data for ship navigation in ice: T. Matsuzawa, S. Uto, T. Takimoto (Ntl. Maritime Res. Inst.), K. Tateyama (Kitami Inst. of Tech.) and T. Toyota (Hokkaido Univ.)
14:20	BREAK
	【E: REMOTE SENSING, SOYA WARM CURRENT】 Chair, K. Ohshima (Hokkaido Univ.)
14:30	**E-1** A sub-pixel estimation of drift ice motion on radar images using neural networks: T. Takagi (Kushiro Ntl. College of Tech.) and K. Okamoto (The Univ. of Tokyo)
14:50	**E-2** High turbidity water in bottom layer off the Soya Warm Current: M. Wadaka, M. Matsuyama, Y. Kitade, M. Ishizu (Tokyo Univ. of Mar. Sci. and Tech.) and M. Aota (Sea Ice Museum)
15:10	**E-3** Behaviors of the bottom boundary layer and the vertical temperature variation in the cold-water belt region formed offshore of the Soya Warm Current: M. Ishizu, Y. Kitade, M. Wadaka, K. Shimada, M. Ishii, M. Matsuyama (Tokyo Univ. of Mar. Sci. and Tech.), M. Aota (Sea Ice Museum) and S. Hamaoka (Mombetsu City)
18:30	Dinner Party for friendship between Scientists & Volunteers < Restaurant Royal Palace >

Wednesday, 22 February 2006 Mombetsu Arts & Culture Center Place: 1F Garinko

9:00	**【HOKKAIDO BRANCH, JAPANESE SOCIETY OF SNOW AND ICE 地域講演会】** 流氷の世界に学ぶ =流氷にまつわる自然の話・ガリンコ号の話= ***(in Japanese language only)*** 流氷を育むオホーツクの天気 ～主に冬の気象について～: H. Sukegawa (Japan Weather Association) Satellite sea ice remote sensing in the Okhotsk Sea: K. Tateyama (Kitami Inst. of Tech.) Ecology of *Clione Limacina* in the Okhotsk Sea: S. Hamaoka (Mombetsu City) Collection and long-term rearing method of *Clione Limacina*: T. Kuwahara (Kansai Konpo Co.,Ltd.) Drift ice and captain of iceboat Garinko: S. Yamai (Okhotsk Garinko & Tower Co. Ltd.)
12:00	Closing Address

9:00 9:20 9:40 10:00	**【F: POLLUTION OF THE OKHOTSK SEA】** Chair, H. Yamaguchi (The Univ. of Tokyo) **F-1** Particle trace experiments on a model of the Okhotsk Sea - Toward the prediction for spreading of spilled oil and Amur contamination: K. Ohshima (Hokkaido Univ.) and D. Simizu (Japan Sea Ntl. Fish. Res. Inst.) **F-2** Experimental study on separating of oil trapped under pack ice: N. Otsuka (North Japan Port Consultants Co. Ltd.), H. Kondo (Hokkaido Railway Co.), R. Ishikawa and H. Saeki (Hokkaido Univ.) **F-3** Oil spill risk in Aniva Bay and surrounded waters for phase 2 Sakhalin-Ⅱ Project: S.A. Pokrashenko (Sakhalin Energy Investment Co. Ltd., Russia) **F-4** Development of ice polynya near to the north east coast of Sakhalin Island: V. Pishchalnik, V.A. Melkiy (Far-Eastern Geological Inst., Russia), S. Pokrashenko (Sakhalin Energy Investment Co. Ltd, Russia) and A.A. Galtsev (Far-Eastern Geological Inst, Russia)
10:20	BREAK
10:30 10:50 11:10 11:30	**【G: MARINE ANIMALS, SEA ICE, CLIMATE IN ICE-COVERED SEA】** Chair, M. Kashiwai (Fish.-Oceanography Res. Studio "Oyashio Ya") **G-1** Ice-entrapment of killer whales and sea ice behavior: Y. Uni (Uni's office of Nature-human Interaction Studies), M. Aota (Sea Ice Museum) and K. Tateyama (Kitami Inst. of Tech.) **G-2** Influence of atmospheric circulation over far east region on character of a change of ice cover in the Okhotsk and Bering Sea: S.Y. Glebova (Pacific Res. Fish. Center, Russia) **G-3** Development of the sea ice image dataset for education (SIDE): K. Cho, Y. Yano, R. Iwasa and H. Shimoda (Tokai Univ.) **G-4** Long-term variability of ice cover in the Okhotsk and Bering Seas and climatic indices: E.I. Ustinova and Y.D. Sorokin (Pacific Fish. Res. Centre, Russia)
12:00	Closing Address Place: 1F Garinko

Poster Session

P-1 Tauysk hydrological front and distribution of Okhotsk feeding herring in autumn 1999-2004:
A. Figurkin (Pacific Res. Fish., Russia) and P. Shapiro (Magadan Branch Pacific Res. Fish. Centre, Russia)

P-2 Structural and functional characteristic of zooplankton communities in northern Okhotsk Sea:
E. Dulepova (Pacific Res. Fish. Centre, Russia)

P-3 Interannual variability of shore polynias and influence on of herring stocks in the northern Sea of Okhotsk:
L. S. Muktepavel (Pacific Res. Fish. Centre, Russia)

P-4 Specific structure and quantitative description of plankton in Pacific waters off Southern Kuril Islands and Hokkaido Island in 1999 (Macroplankton, Ichthyoplankton):
I.A. Nemchinova and I.N. Moukhametov (Sakhalin Res. Inst. of Fish. & Oceanogr., Russia)

P-5 Composition and structure of summer zooplankton from Izmenchivaya Lagoon:
I.A. Nemchinova (Sakhalin Res. Inst. of Fish. & Oceanogr., Russia)

P-6 The phytoplankton of Tunaicha Lake (Southern Sakhalin):
N.V. Konovalova and IV. Motylkova (Sakhalin Res. Inst. of Fish. & Oceanogr., Russia):

P-7 The structure and diurnal variability of ichthyoplankton in Lagoon of Izmenchivaya (the Eastern Sakhalin) in June, 2004:
O.N. Moukhametova (Sakhalin Res. Inst. of Fish. & Oceanogr., Russia)

P-8 Growth of diatomic micro algae in winter period in the Sea of Okhotsk:
O.V. Zenkin (Lab. GIS-tech. of Far East Geological Inst., Russia), V.M. Pishchalnik (Sakhalin Branch, Far-Eastern Geological Inst., Russia), A.V. Leonov (Inst. of Ocean., Russian Acad. of Sci., Russia), T.A. Mogilnikova (Sakhalin Res. Inst. of Fish. & Oceanogr., Russia) and O.V. Zenkin (Lab. GIS-technology of Far East Geological Inst., Russia)

P-9 The ice breaks data forecast by data of solar activity:
V.M. Pishchalnik, V.V. Ivanov (Russian Acad. of Sci., Russia), Y.V. Lubitsky (Khabarovsk State Acad. of Economics and law, Russia) and A.A. Galtsev (Russian Acad. of Sci., Russia)

P-10 Investigation of the sea level fluctuations in the Yuzhno-Kurilskaya Bay in 2005:
P.D. Kovalev, G.V. Shevchenko and D. P. Kovalev (Inst. of Mar. Geology and Geophysics, Russia)

P-11 Distribution of Pacific Winter and Summer Waters in the Arctic Ocean based on historical data:
M. Makhotin, L.A. Timokhov (Arctic and Antarctic Res. Inst., Russia) and R. Colony (Pacific Arctic Group, Russia)

P-12 Interannual variability of summer sea ice characteristics in the Laptev Sea based on shipborne observations and passive microwave data in 2000-2005:
T.A. Alexeeva and S.V. Frolov (Arctic and Antarctic Res. Inst., Russia)

P-13 Expert system for the operative environmental diagnostics:
V.F. Krapivin and F.A. Mkrtchyan (Inst. of Radioengineering and Electronics, Russia)

P-14 Features of waters circulation in the Tatar Strait in summer:
Boris S. Dyakov (Pacific Fish. Res. Centre, Russia)

P-15 Tools for the Analyses and Visualization of Historical Sea Ice Data Sets:
A. A. Pan, V.V. Plotnikov, V.I. Rostov, V.I. Rostov, N.M. Vakulskaya and I.D. Rostov (V.I.Il'ichev Pacific Oceanological Inst., Russia)

P-16 The ice breaks data forecast by data of solar activity:
V.M. Pishchalnik (GIS-technology of Far East Geological Inst., Russia),
V.V. Ivanov (Inst. of Mar. Geology and Geophysics, Russia),
Y.V. Lubitsky (Khabarovsk State Acad. Economics and law, Russia) and
A.A. Galtsev (Far East Geological Inst., Russia)

P-17 Seasonal variation of geo-id at Amurskiy Liman:
V. V. Ivanov (Inst. of Mar. Geology and Geophysics, Russia) and V. Pishchalnuik (Far East Geological Inst., Russia)

P-18 Mathematical modelling of process of formation of sea hummocks:
A.N. Chetyrbotsky (Far East Geological Inst. DVO of the Russian Acad. of Sci., Russia)

P-19 Extreme distribution of the floating ice in the NW Pacific:
A. Polaykova (V.I.Il'ichev Pacific Oceanological Inst., Russia)

P-20 Geostructural control of the methane hydrate accumulation on the North-Eastern Slope of Sakhalin Island (Sea of Okhotsk):
R. Shakirov, A. Obzhirov, A. Salyuk (V.I.Il'ichev Pacific Oceanological Inst., Russia) and
N. Biebow (Alfred-Wegener-Inst. of Polar and Mar. Res., Germany)

A-11 Global simulation model of extreme ice loads on marine offshore ice-resistant platforms:
A.T. Bekker, O. A. Sabodash and O. A. Shubin (Far-Eastern International Technical Univ., Russia)