

9:00	<b>【OPENING ADDRESS】</b> Masaaki Aota (Chair, Okhotsk Sea & Cold Ocean Res. Association)
9:10	<b>【KEYNOTE ADDRESS】</b> Success of polar observation in 50 years since the international geophysical year Mitsuo Fukuchi (National Inst. of Polar Res.)
9:40	BREAK
10:00	<b>【A : OKHOTSK SEA, PHYSICS OF SEA ICE】</b> Chair: Yutaka Nagata (Mar. Information Center)
10:00	<b>A-1</b> Relation between sea ice period and meteorological conditions from sea ice data of Japan Coast Guard in Shiretoko Peninsula ◇Tomofumi Kosugi, Shuhei Takahashi and Akira Hori (Kitami Inst. of Tech.)
10:20	<b>A-2</b> Seasonal evolution of landfast sea ice albedo and surface conditions ◇Jari Uusikivi (Univ. of Helsinki, Finland)
10:40	<b>A-3</b> Observation of land-fast ice thickness in Syowa Station using Electro- magnetic induction device ◇Kzutaka Tateyama (Kitami Inst. of Tech.), Kotaro Fukui (Ntl. Inst. of Polar Res.) Haruto Shimoda, Shotaro Uto (Ntl. Maritime Res. Inst.) and Shuki Ushio (Ntl. Inst. of Polar Res.)
11:00	BREAK
11:10	<b>A-4</b> Currents of the Okhotsk Sea simulated by MRI / JMA ocean data assimilation system (Early results) ◇Takao Ima-izumi, Norihisa Usui, Hiroyuki Tsujino and Hiroshi Kunimatsu (Japan Meteorological Agency)
11:30	<b>A-5</b> Low-frequency oscillations of thermal regime in the Okhotsk Sea and the relationships with large-scale climatic indices ◇Elena I. Ustinova and Yury. D. Sorokin (TINRO-Centre, Russia)
12:00	LUNCH
13:30	<b>【ON NORTHERN PEOPLE】</b> Chair: Tomoichiro Yoshikawa (Northern Culture Symposium) <i>( in Japanese language only )</i> “TRADE”~Thinks about nature and human’s relations from the trade since ancient times of Hokkaido Lecture1 Trade of Ainu regarded from old document Syoichiro Ogawa (Dohto Univ.) Lecture2 Why did the People in sea ice disappear? ~Ainu and People of the Okhotsk Culture over trade~ Takuro Segawa (Asahikawa City Museum)
18:30	WHITE CONCERT < OKHOTSK SEA ICE MUSEUM>

	<b>【B : ARCTIC OCEAN, ICE ENGINEERING】</b> Chair: Natsuhiko Otsuka (North Japan Port Consultants Co., Ltd.)
10:00	<b>B-1</b> A note on shallow water approximation of dynamically loaded ice sheet ◇Hiromitsu Kitagawa (Ocean Policy Res. Foundation)
10:20	<b>B-2</b> Results of medium-scale test of ice loading on ship hulls ◇Koh Izumiyama (Ntl. Maritime Res. Inst.)
10:40	<b>B-3</b> A consideration of oil spreading in broken ice Haruhito Shimoda, Shigeo Kanada, Daisuke Wako, Tadanori Takimoto and ◇Koh Izumiyama (Ntl. Maritime Res. Inst.)
	Chair: Hiromitsu Kitagawa (Ocean Policy Res. Foundation)
11:00	<b>B-4</b> Numerical simulation of ship navigation in brash ice channels- Second report: effect of size and layer number of ice pieces ◇Akihisa Konno (Kogakuin Univ.)
11:20	<b>B-5</b> Global Ice Center for polar routeing ◇Daisuke Abe, Yasumi Nakai and Genki Sagawa (Weathernews Inc.)
11:40	<b>B-6</b> Measurement of snow depth on sea-ice by electromagnetic-induction measurements ◇Fuko Sugimoto, Kazutaka Tateyama and Hiroyuki Enomoto (Kitami Inst. of Tech.)
12:00	LUNCH
	<b>【C : FISHERIES AND BIOLOGY IN ARCTIC OCEAN】</b> Anchorman : Tsuneo Nishiyama (Tokai Univ.), Chair: Seiji Katakura (City of Mombetsu)
13:00	<b>C-1</b> Why do we last the biological monitoring of coastal environment? -An introductory remark ◇Soshi Hamaoka (OSCORA)
13:10	<b>C-2</b> Long-term observation on the seasonal and annual changes of plankton in Ishikari Bay and adjacent waters ◇Moriyuki Kotori (Japan Chaetognath Group)
13:30	<b>C-3</b> Some problems revealed in frequent marine monitoring ◇Kazuo Kido, Masato Ohsawa (Geological Survey of Hokkaido) and Soshi Hamaoka (OSCORA)
13:50	<b>C-4</b> Monitoring of planktonic larvae in Oshidomari Harbor in Rishiri Island off northern Hokkaido, in reference to Echinodermata ◇Nobuaki Takahashi (Sapporo Medical Univ.)
14:10	<b>C-5</b> Seasonal changes of copepods in northern Japan Sea with special reference to a few important species as prey organisms for commercial fishes ◇Hiroki Asami, Nozomi Okada (Hokkaido Wakkanai Fish. Experiment Station) Takanori Kuribayashi and Hiroshi Shimada (Hokkaido Central Fish. Experiment Station)
14:30	BREAK
	Chair: Mitsuo Fukuchi (Ntl. Inst. of Polar Res.)
14:40	<b>C-6</b> Seasonal distribution and long-term variation of larval plankton of benthic organisms ◇Soshi Hamaoka (OSCORA)
15:00	<b>C-7</b> A trial of prediction of paralytic shellfish poisoning along the coast off Hokkaido in the Okhotsk Sea ◇Hiroshi Shimada, Mayumi Sawada, Iori Tanaka (Hokkaido Central Fish. Experiment Station) Hiroki Asami (Hokkaido Wakkanai Fish. Experiment Station) and Yasushi Fukamachi (Hokkaido Univ.)
15:20	<b>C-8</b> Present status and problems in monitoring of marine environment and bioresources in the waters around Hokkaido: Outline of the research work in the Hokkaido Prefectural Fisheries Experiment Station ◇Hideo Yoshida (Hokkaido Central Fish. Experiment Station)
15:40	<b>C-9</b> Summings-up Chair: Tsuneo Nishiyama (Tokai Univ.)
16:10	BREAK
	<b>【D : FISHERIES】</b> Chair: Makoto Kashiwai (Tokyo Univ. of Agriculture)
16:20	<b>D-1</b> Comparison of growth of juvenile walleye pollock in the Pacific coast of Hokkaido and Tohoku area ◇Seiji Katakura (City of Mombetsu), Satoshi Honda (Ntl. Res. Inst. of Fish. Sci.) Tsutomu Hattori (Tohoku Ntl. Fish. Res. Inst.), Tomoaki Goto (Iwate Fish. Tech. Center) and Tetsuichiro Funamoto (Hokkaido Ntl. Fish. Res. Inst.)
16:40	<b>D-2</b> Social and economical effect of sea ice on fisheries: Sea ice and salmon resources, as viewed from Historical data ◇Ikutaro Shimizu (Ntl. Res. Inst. of Fish. Sci.)
18:30	WHITE CONCERT < OKHOTSK SEA ICE MUSEUM >

<p>9:00</p>	<p><b>【FORUM: THE OKHOTSK SEA – OUR HOME SEA】</b> <span style="float: right;"><i>( in Japanese language only )</i></span></p> <p>Part I Seal <span style="float: right;">Chair: Yoshitsugu Hirosaki (Okhotsk Tokkari Center)</span></p> <p><b>『KEYNOTE ADDRESS』</b></p> <p>Ecological change of the spotted seals by variations in climate                  Mari Kobayashi (Tokyo Univ. of Agriculture)</p> <p>.....</p> <p>Behavior observed during the breeding period in spotted seals <i>Phoca largha</i> and bearded seals <i>Erignathus barbatus</i> in captivity                  ◇Natsuki Miyazawa and Yoshitsugu Hirosaki (Okhotsk Tokkari Center)</p> <p>Rearing a ribbon seal (<i>Phoca fasciata</i>) at its early life stage                  ◇Nami Tomisawa and Yoshitsugu Hirosaki (Okhotsk Tokkari Center)</p> <p>Hematuria observed in a ringed seal <i>Phoca hispida</i> (H-01)                  ◇Satomi Nishi and Yoshitsugu Hirosaki (Okhotsk Tokkari Center)</p> <p>Hematuria and stomatitis observed in spotted seals <i>Phoca largha</i>                  ◇Masae Takaishi and Yoshitsugu Hirosaki (Okhotsk Tokkari Center)</p> <p>Transporting and subsequent caring of spotted seals <i>Phoca largha</i> donated                  ◇Mami Ogawa (Toba Aquarium)</p>
<p>10:30</p>	<p><b>BREAK</b></p>
<p>10:40</p>	<p style="text-align: right;">Chair: Masaya Yamada (City of Mombetsu)</p> <p>What is the branding strategy?                  Akira manjome (Hokkaido Industrial Res. Inst.)</p>
<p>11:30</p>	<p>Product development of raw shellfish muscle                  Tadaaki Takeda (Hokkaido Abashiri Fish. Experiment Station)</p>
<p>12:00</p>	<p><b>LUNCH</b></p>
<p>13:30</p> <p>14:20</p> <p>15:20</p>	<p>Part II Chain of environments of our home – Forest, river and sea -</p> <p>Building up the northern forests in habiting wild birds                  Teiji Suzuki (Tokyo Univ. of Agriculture)</p> <p>Chain of livings in forest, river and sea                  Akiko Nagasaka (Hokkaido Forestry Res. Inst.)</p> <p>Actual condition of global warming in Japan and its influence on the agriculture in Hokkaido                  Tomoyosi Hirota (Ntl. Agricultural Res. Center for Hokkaido Region)</p>
<p>18:30</p>	<p><b>DINNER PARTY FOR FRIENDSHIP BETWEEN SCIENTISTS &amp; VOLUNTEERS &lt;MOMBETSU CENTRAL HOTEL&gt;</b></p>

	<p><b>[E : METEOROLGY IN ARCTIC OCEAN, OKHOTSK SEA]</b>                  Chair: Masaomi Akagawa (Former, Weatherman of JMA)                  Masaji Matsuyama (Tokyo Univ. of Mar. Sci.)</p>
9:00	<p><b>E-1</b> Seasonal variation of the water mass of the East Hokkaido Coastal Current (the Coastal Oyashio and the East Hokkaido Warm Current)                  ◇ Yutaka Nagata (Mar. Information Center), Sachiko Oguma (Hokkaido Ntl. Fish. Res. Inst.)                  Kimihiro Aikawa, Keiichi Nagase (Nemuro City Fish. Res. Inst.),                  Iori Tanaka , Akifumi Nakata (Hokkaido Central Fish. Experiment Station) and                  Masashi Natsume (Hokkaido Kushiro Fish. Experiment Station)</p>
9:20	<p><b>E-2</b> Oceanological conditions of the southern Kuril Islands region in a cold season (February - april )                  ◇ Igor Zhigalov and Alexander Figurkin (TINRO-Centre, Russia)</p>
9:40	<p><b>E-3</b> Drastic retreat of sea ice in Arctic Ocean and Subarctic seas                  ◇ Hiroki Shibata, Kazutaka Tateyama and Hiroyuki Enomoto (Kitami Inst. of Tech.)</p>
10:00	BREAK
	<p>Chair: Yasushi Fujiyoshi (Hokkaido Univ.)</p>
10:10	<p><b>E-4</b> Vertical flux of particulate matters off Mombetsu in the Okhotsk Sea                  ◇ Ryuichi Nagata (Okhotsk Garinko &amp; Tower Co., Ltd.)                  Takehiko Hiwatari (Ntl. Inst. for Environmental Studies)                  Tomoyoshi Koizumi (Mikuniya Corp.) and Kunio Kohata (Ntl. Inst. for Environmental Studies)</p>
10:30	<p><b>E-5</b> Comparison among potential/confirmed deep convection sites                  ◇ Makoto Kashiwai (Tokyo Univ. of Agriculture)</p>
11:50	<p><b>E-6</b> Formation of broad opening of coastal polynya                  ◇ Yusuke Kawaguchi, Sohey Nihashi, Humio Mitsudera and Kay I. Ohshima (Hokkaido Univ.)</p>
11:10	<p><b>E-7</b> Influence of summertime arctic sea-ice anomalies on wintertime Eurasian coldness                  ◇ Meiji Honda, Jun Inoue (JAMSTEC) and Shozo Yamane (Doshisha Univ.)</p>
12:00	LUNCH
13:00	<p><b>[FORUM: COUNTER MEASURES AGAINST OIL POLLUTION] ( in Japanese language only )</b>                  Chair: Shintaro Goto (Rissho Univ.), Satoshi Ono (Hokkai Minyu News)</p> <p>Part I Urgent Soya Strait -Transportation of crude oil started -</p> <p>Part II Preparations for oil pollution on fragile natural environment area</p>
18:30	DINNER PARTY FOR FRIENDSHIP BETWEEN SCIENTISTS & VOLUNTEERS <MOMBETSU CENTRAL HOTEL>

	<b>[F : OKHOTSK SEA, SEA ICE]</b>	Chair: Hajime Yamaguchi (The Univ. of Tokyo)
9:00	<b>F-1</b> Investigation of ice-ocean coupled system in the Sea of Okhotsk using a numerical model ◇Ayumi Fujisaki, Hajime Yamaguchi (The Univ. of Tokyo) and Humio Mitsudera (Hokkaido Univ.)	
9:20	<b>F-2</b> Simulation model of pollutant propagation in the Arctic Basin ◇Vladimir F. Krapivin and Ferdinand A. Mkrtchyan (V.A. Kotelnikov' Inst. of Radioengineering and Electronics, Russia)	
9:40	<b>F-3</b> Characteristics of the Okhotsk coastal polynyas revealed from active and passive microwave satellite observations ◇Sohey Nihashi and Naoto Ebuchi (Hokkaido Univ.)	
10:00	<b>F-4</b> The accuracy evaluation of sea ice motion vectors derived automatically from Geostationary Meteorological Satellite data ◇Hideaki Fukushima, Kenichi Nakagawa and Takayuki Kato (Japan Meteorological Agency)	
10:20	BREAK	
		Chair: Akihisa Konno (Kogakuin Univ.)
10:30	<b>F-5</b> An adaptive system to identify the spots of pollutants on the water surface ◇Ferdinand A. Mkrtchyan, Vladimir F. Krapivin, V.I. Kovalev and V.V. Klimov (V.A. Kotelnikov' Inst. of Radioengineering and Electronics, Russia)	
10:50	<b>F-6</b> Wind- and buoyancy-driven overturning circulation in the Sea of Okhotsk ◇Humio Mitsudera, Junji Matsuda, Tomohiro Nakamura, Keisuke Uchimoto, Takuya Nakanowatari and Naoto Ebuchi (Hokkaido Univ.)	
11:10	<b>F-7</b> Features of hydrochemical conditions of Sea of Okhotsk in rather cold and warm years ◇Vladimir Matveev, A. L. Figurkin and Elena I. Ustinova (TINRO-Centre, Russia)	
12:00	LUNCH	
13:00	<b>[FORUM: GLOBAL WARMING VIEWED FROM OCEAN]</b>	<i>( in Japanese language only )</i>
	Okhotsk Sea is still blue, Coral is now white	Chair: Genta Uchikoshi (Tokai Univ.)
	<b>『KEYNOTE ADDRESS』</b>	
	Global warming viewed from coral, Okinawa Akiyuki Irikawa (Sango-kun in Kerama, Okinawa)	
	No more warming, it is warning from nature Masaaki Aota (Okhotsk Sea Ice Museum)	
	<b>『TOPICS』</b>	
	Private Furusato observatory Kunio Furuya (Ryuhyo Club)	
	Our sea ice data acquisition system Yasumi Nakai (Weathernews Inc.)	
15:00	BREAK	
15:10	<b>『TALK SESSION』</b>	Coordinator: Eji Otsuka (Hokkaido Umino-Ggakko)
	What are we supposed to do? ◇Panelist◇ Masaaki Aota (Okhotsk Sea Ice Museum) Akiyuki Irikawa (Sango-kun in Kerama, Okinawa) Go Saito (Tokai Univ.)	
18:30	DINNER PARTY FOR FRIENDSHIP BETWEEN SCIENTISTS & VOLUNTEERS <MOMBETSU CENTRAL HOTEL>	

10:00	<p><b>[FORUM: CREATION OF RECYCLING – ORIENTED SOCIETY BY USE OF BIOMASS ENERGY –]</b> Chair: Yoshinobu Takahashi (City of Mombetsu) <i>( in Japanese language only )</i></p>
11:30	CLOSING ADDRESS

	<p><b>[G : ARCTIC OCEAN, SEA ICE]</b> <span style="float: right;">Chair: Meiji Honda (JAMSTEC)</span></p>
9:00	<p><b>G-1</b> Air-sea ice CO<sub>2</sub> flux over land-fast sea ice in the Arctic Ocean, off Barrow, Alaska                  ◇Daiki Nomura, Rolf Grading, Hajo Eicken (Univ. of Alaska, USA) and Kunio Shirasawa (Hokkaido Univ.)</p>
9:20	<p><b>G-2</b> Dual-doppler radar observation of sea ice, snow clouds and birds                  ◇Yasushi Fujiyoshi (Hokkaido Univ.) and Masayuki Ohi (J2 Co. Ltd.)</p>
9:40	<p><b>G-3</b> Retrieval of sea ice thickness distribution in the Sea of Okhotsk from ALOS/PALSAR backscatter data                  ◇Takenobu Toyota (Hokkaido Univ.), Haruchika Kamimura (Japan Aerospace Exploration Agency), Shuji Ono (Information &amp; Sci. Techno-System, Co., Ltd.) and Kohei Cho (Tokai Univ.)</p>
10:00	<p>BREAK</p>
	<p style="text-align: right;">Chair: Koh Izumiyama (Ntl. Maritime Res. Inst.)</p>
10:10	<p><b>G-4</b> Biocomplexity problem related to the Okhotsk Sea ecosystem                  ◇Vladimir F. Krapivin and Vladimir Yu. Soldatov (V.A. Kotelnikov' Inst. of Radioengineering and Electronics, Russia)</p>
10:30	<p><b>G-5</b> An application of a global simulation model to the study of the CO<sub>2</sub> greenhouse effect                  ◇V. F. Krapivin (V.A. Kotelnikov' Inst. of Radioengineering and Electronics, Russia)</p>
10:50	<p><b>G-6</b> Oil spill accidents on December 7<sup>th</sup> 2007, in Korea                  ◇Kazue Tazaki (Kanazawa Univ.)</p>
11:30	<p>CLOSING ADDRESS &lt;1F Garinko&gt;</p>

**[ P : POSTER SESSION ]**

- P-1** Change of current structure of Soya Warm Current off Abashiri in summer  
Masaji Matsuyama (Tokyo Univ. of Mar. Sci.), Yasutaka Yano (Japan Fish. Information Center)  
Yujiro Kitade, Makiko Wadaka (Tokyo Univ. of Mar. Sci.)  
Miho Ishizu (Tohoku Univ.), Yoshio Koike and Yuji Mine (Tokyo Univ. of Mar. Sci.)
- P-2** Influence of ice on the time and the efficiency of Okhotsk population herring  
Sergei Ponomarev (Khabarovsk Branch Pacific Res. Fish. Center, Russia)
- P-3** Hydrological conditions of a southwest part in Laptev Sea and Chukotsk Sea in 2007-2008 year  
Vladimir B. Darnitskiy (Pacific Sci. Fish. Res. Center, Russia) and  
Maxim A. Ishchenko (V.I. Il'ichev Pacific Oceanological Inst., Russia)
- P-4** Hydrological conditions on the north shelf area of Sakhalin Island in summer 2005-2007  
Fedor F. Khrapchenkov (V.I. Il'ichev Pacific Oceanological Inst., Russia)
- P-5** Variability of currents and temperature in Amurskiy Bay of Sea of Japan in winter 2005 - 2007  
Fedor F. Khrapchenkov and N.M. Dulova (V.I. Il'ichev Pacific Oceanological Inst., Russia)
- P-6** Gas geochemical parameters variations of the Yuzhnosakhalinsky Mud Volcanoe related to the earthquakes on Sakhalin Island  
R.B. Shakirov (V.I. Il'ichev Pacific Oceanological Inst., Russia)  
V.V. Ershov (Inst. of Mar. Geology and Geophysics, Russia), U. Tsunogai (Hokkaido Univ.) and  
A.I. Obzhurov (V.I. Il'ichev Pacific Oceanological Inst., Russia)
- P-7** Observations on physical properties and biogeochemistry of sea ice in southern Sea of Okhotsk (Hokkaido, Japan)  
Mats Granskog (Univ. of Lapland, Finland), Takenobu Toyota (Hokkaido Univ.)  
Hiroschi Hattori (Tokai Univ.), Daiki Nomura (Hokkaido Univ.) and  
Andreas Krell (Alfred Wegener Inst. for Polar and Mar. Res., Germany)
- P-8** Ice sedimentogenesis within marine parts of the Amur River Estuary  
O.V. Dudarev, A.N. Charkin and I.V. Utkin (TINRO-Centre, Russia)
- P-9** Comparison of calculated and measured CO<sub>2</sub> fluxes between seawater and atmosphere on the arctic shelf  
Pipko Irina Ivanovna (V.I. Il'ichev Pacific Oceanological Inst., Russia)  
Repina Irina Alexandrovna (Obukhov Inst. of Atmospheric Physics, Russia)  
Pugach Svetlana Petrovna, Salyuk Anatoly Nazarovich and  
Semiletov Igor Petrovich (V.I. Il'ichev Pacific Oceanological Inst., Russia)
- P-10** Distribution of CDOM in the East-Siberian Sea  
S.P. Pugach, I.I. Pipko and I.P. Semiletov (V.I. Il'ichev Pacific Oceanological Inst., Russia)
- P-11** The sea ice component of the new arctic cryosphere climate project "SWIPA"  
Sebastian Gerland, Kim Holmen and Mats Granskog (Norwegian Polar Inst., Norway)
- P-12** Landscapes of Kara Sea  
Andrey A. Bobkov (Saint-Petersburg State Univ., Russia), Vadim V. Drabkin and  
Valery P. Karklin (Arctic and Antarctic Res. Inst., Russia)