

2022年2月21日(月)

第1会場

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| 9:00 | 【学術分科会開会式】 開会のことば：高橋修平（北方圏国際シンポジウム実行委員会） あいさつ：福井学（北海道大学低温科学研究所） | 司会：片倉靖次（紋別市） |
| 9:10 | 【K:基調講演】 K-1 21世紀のオホーツク海の海洋哺乳類が直面する課題 Olga V. Shpak (ロシア科学アカデミー生態進化研究所, ロシア) | 座長：高橋修平（流氷科学センター） |
| 9:50 | K-2 SmartICE の活動:アイストラベルのリスク軽減に向けた先住民コミュニティとの社会的企業のパートナーシップ Trevor Bell (ニューファンドランド&モリアル大学, カナダ) | |
| 10:30 | 休憩 | |
| 10:40 | K-3 北極域国際連携研究の最先端～気候変動と北方圏雪氷・海洋環境の変化と影響 榎本浩之（国立極地研究） | 座長：田中雅人（北大北極セ） |
| 11:20 | K-4 極域海洋研究の推進による国連海洋科学の10年(2021-2030)への貢献 道田豊（東京大学大気海洋研究所） | |
| 12:00 | 昼食 | |
| 13:00 | 【A:ワークショップ、北極海における安全航行のための海水、波浪、海洋観測】 | |

2022年2月21日(月)

第2会場

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| 15:00 | 【B：雪氷と暮らし】 B-1 Examining the factors influencing air pollution in the extractive and energy industries in the sparsely populated regions of Russian Arctic ○Nadezhda Krasilnikova (Arctic Scientific Res. Centre, Russia), Iolanda Ialongo (Finnish Meteorological Inst., Finland), Daria Gritsenko (Helsinki Univ., Finland), Tuyara Gavrilyeva (Federal Res. Centre, Russia) and Henrik Virta (Finnish Meteorological Inst., Finland) | 座長：高橋修平（流氷科学センター） |
| 15:20 | B-2 Microplastics study in the Sea of Okhotsk and Arctic seas of Russia Alexandra Ershova, Tatjana Eremina and Irina Makeeva (Russian State Hydrometeorological Univ., Russia) | |
| 15:40 | B-3 International Students and Cold Regions: One of attraction that connect Japan and the world -Trend of international students when choosing “Cold Region” as destination for studying abroad- ○堀尾佳以, Muhammad Haziq Aiman Bin Mohd Hazbauni (宇都宮大), Asyraf Bin Su Azmi | |
| 16:00 | 休憩 | |
| 16:10 | B-4 Weather around the Sea of Okhotsk analyzed from documents in the mid-19th century and climate change at that time ○田上善夫, Gaston R. Demarée (Royal Meteorological Inst. Belgium, Belgium), 三上岳彦（東京都立大）, 塚原東吾（神戸大） | |
| 16:30 | B-5 Winter/spring climatic changes in Northern Japan during 1705-1860 reconstructed from snowfall rates and lake-freezing records ○三上岳彦（東京都立大）, 長谷川直子（お茶の水女子大）, 平野淳平（帝京大）, Bruce Batten (アメリカ・カナダ大学連合日本研究センター) | |
| 16:50 | B-6 A meteorological manuscript for Labrador/Nunatsiavut concerning May 1872-June 1873 found in Moravian Missionary Records ○Gaston R. Demarée (Royal Meteorological Inst. Belgium, Belgium), Thea Olsthoorn (Nijmegen, Netherlands), Pascal Mailier (Royal Meteorological Inst. Belgium, Belgium) and Astrid E. J. Ogilvie (Stefansson Arctic Inst., Iceland/Univ. Colorado, USA) | |

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| | 【A:ワークショップ、北極海における安全航行のための海水、波浪、海洋観測】 |
| 13:00 | A-1 Recent change of sea-ice age distribution in the Arctic ○木村聰明 (東大大気海洋研), 羽角博康, 大山元夢, 山口一 (極地研) |
| 13:20 | A-2 Radar observation of sea-ice and waves in a controlled laboratory environment ○早稲田卓爾 (東大院新領域/JAMSTEC), 松沢孝俊 (海技研), 館山一孝 (北見工大), 小平翼, 藤原泰, 勝野智嵩, 野瀬毅彦, 西澤啓太, 佐藤公哉, 内山亮介 (東大院新領域) |
| 13:40 | A-3 Analysis on long-term trend of vessel icing predictor in the Arctic Ocean and measurement of sea spray and waves on R/V Mirai ○内山亮介 (東大院新領域), 早稲田卓爾 (東大院新領域/JAMSTC), 尾関俊浩 (札教大), 小平翼, 藤原泰 (東大院新領域), 山口一 (極地研) |
| 14:00 | A-4 Lagrangian observation of sea ice drift ○藤原泰, 小平翼 (東大院新領域), 早稲田卓爾 (東大院新領域/JAMSTEC), 野瀬毅彦, 西澤啓太, 内山亮介 (東大院新領域) |
| 14:20 | 休憩 |
| | 座長:早稲田卓爾 (東大院新領域/JAMSTEC) |
| 14:25 | A-5 Interannual variation of sea ice concentration over the Canada Basin ○小平翼 (東大院新領域), 早稲田卓爾 (東大院新領域/JAMSTEC), 野瀬毅彦, 藤原泰 (東大院新領域) |
| 14:45 | A-6 Coupled model for simulating the interaction of wave and ice particles ○Zijing Jin(東大院新領域), 早稲田卓爾 (東大院新領域/JAMSTEC), 藤原泰, 勝野智嵩 (東大院新領域) |
| 15:05 | A-7 Observation and model comparison of surface ocean waves in the Laptev Sea ○野瀬毅彦 (東大院新領域), Jean Rabault (Norwegian Meteorological Inst., Norway), 早稲田卓爾, 小平翼, 勝野智嵩 (東大院新領域), 漢那直也 (東大大気海洋研), 館山一孝 (北見工大), Joey Voermans (Univ. Melbourne, Australia), Tatiana Alekseeva (Arctic Antarctic Res. Inst., Russia) |
| 15:25 | A-8 Sea ice observation using a portable and satelliteborne passive microwave radiometers in 2021 NABOS expedition ○館山一孝 (北見工大), Anna Timofeeva (Arctic Antarctic Res. Inst., Russia), 漢那直也 (東大大気海洋研), 早稲田卓爾 (東大院新領域), 榎本浩之 (極地研) |
| 15:45 | A-9 Peculiarities of using the data of sea ice concentration derived from satellite microwave radiometry for navigational tasks ○Tatiana Alekseeva, Julia Sokolova, Ekaterina Afanasyeva (Arctic Antarctic Res. Inst., Russia/Space Res. Inst. RAS, Russia), Vasiliy Tikhonov (Space Res. Inst., RAS, Russia/Inst. Water Environ. Problems, RAS, Russia), Mikhail Raev (Space Res. Inst., RAS, Russia), 早稲田卓爾, 野瀬毅彦 (東大院新領域), Eugeny Sharkov (Space Res. Inst., RAS, Russia) |
| 16:05 | 休憩 |
| | 座長:Tatiana Alekseeva (Arctic Antarctic Res. Inst./Space Res. Inst., Russia) |
| 16:10 | A-10 Recent conditions of ice navigation in the Tatar Strait of the Sea of Japan ○Evgeniya Pavlova, Evgeniy Grishin, Tatiana Alekseeva and Evgeniy Mironov (Arctic Antarctic Res. Inst., Russia) |
| 16:30 | A-11 The results of the specialized ice observations in the Arctic Basin during autumn season in 2021 ○Anna Timofeeva (Arctic Antarctic Res. Inst., Russia), 館山一孝 (北見工大), 漢那直也 (東大大気海洋研) |
| 16:50 | A-12 Dependence of the parameters of the Ob-Yenisei flaw polynya of the Kara Sea on meteorological conditions ○Evgeniya Pavlova, Alexander Yulin and Valentina Kashkova (Arctic Antarctic Res. Inst., Russia) |
| 17:10 | A-13 Stochastic simulation of sea ice cover morphometry by the method of discrete elements ○Nina A. Krupina, Polina V. Maksimova and Anna V. Savitskaya (Arctic Antarctic Res. Inst., Russia) |
| 17:30 | A-14 Analysis of ice conditions along the Northern Sea Route ultra-late transit navigations in winter 2020-2021 ○Alina A. Petrova (Arctic Antarctic Res. Inst. Russia/St. Petersburg State Univ., Russia) Yu. V. Sokolova, T. A. Alekseeva (Arctic Antarctic Res. Inst. Russia/Space Res. Inst., Russia) and Ye. A. Grishin (Arctic Antarctic Res. Inst., Russia) |

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| | 【C：ワークショップ、北極海の環境変動を考慮した持続可能な航路利用の探究】 |
| 8:40 | C-1 Comparison of sea ice thickness estimated from GCOM-W/AMSR2 and SMOS/MIRAS ○館山一孝(北見工大), 渡辺由梨加(北見工大院), 東海林尚登(北見工大), 金野祥久(工学院大学), 佐川玄輝(ウェザーニューズ), 泉山耕(北大北極域セ), 星野聖太(JAXA), 久保聰一郎, 橋本拓海(工学院大学), 川村康輔(北見工大院) |
| 9:00 | C-2 Improvement of estimating sea ice thickness using AMSR2 data for Arctic first-year ice ○渡辺由梨加(北見工大院), 館山一孝, 東海林尚登(北見工大), 金野祥久(工学院大), 佐川玄輝(ウェザーニューズ), 泉山耕(北大北極域セ), 星野聖太(JAXA), 久保聰一郎, 橋本拓海(工学院大), 川村康介(北見工大院) |
| 9:20 | C-3 Improvement of sea ice thickness measurement method using the shipborne Electro-Magnetic Inductive device ○川村康輔(北見工大院), 館山一孝(北見工大) |
| 9:40 | C-4 Recent sea ice changes observed from Beaufort Gyre Exploration Project ice draft and drift velocity datasets ○泉山耕(北大北極域セ) |
| 10:00 | C-5 Numerical study on the relationship between ship route and ice resistance in ice-covered water ○澤村淳司, 小林亮太(阪大院工) |
| 10:20 | 休憩 |
| 10:30 | 座長:松沢孝俊(海技研) C-6 Effect of ship bow shape to brash ice channel resistance: A preliminary study ○徳留大樹, 金野祥久(工学院大) |
| 10:50 | C-7 Laboratory experiment of spray icing using urea-doped water -Shape and amount of icing on cylindrical specimen with different diameters- ○尾関俊浩(札教大), 松沢孝俊(海技研), 安達聖(防災科研), 徳留大樹(工学院大), 布川大暉(札教大/雪研スノーアイターズ), 松田裕太(札教大), 金野祥久(工学院大) |
| 11:10 | C-8 A preliminary assessment of oil-spill response methods in the Arctic coastal area ○松沢孝俊(海技研), 金野祥久, 菅谷拓未(工学院大), 大山元夢(工学院大/極地研) |
| 11:30 | C-9 Toward the application of particle advection diffusion analysis method for simulating oil spill in the ice-infested water ○金野祥久, 菅谷拓未(工学院大), 大山元夢(工学院大/極地研), 松沢孝俊(海技研) |
| 11:50 | C-10 Medium-term Arctic sea ice forecast conducted by the Arctic Sea Ice Information Center in 2021 ○大山元夢, 山口一(極地研), 木村詞明(東大大気海洋研) |
| 12:10 | C-11 Feasibility of Northern Sea Route by using a global maritime container shipping simulation model ○柴崎隆一, 青柳颯太, 小菅直樹, 渋谷圭吾(東大院工), 志賀航介(東大工), Chathumi Ayanthi Kavirathna(東大院工) |
| 12:30 | 昼食 |
| 13:30 | 【D：ワークショップ、北極域をめぐる産学官連携共同研究活動～北極域研究共同推進拠点産学官連携事業～】 |

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| | 【D：ワークショップ、北極域をめぐる産学官連携共同研究活動～北極域研究共同推進拠点産学官連携事業～】 |
| 13:30 | <p>D-1 Activities to promote industry-government-academia collaborative research on the Arctic region supported by Japan Arctic Research Network Center (J-ARC Net) ○田中雅人, 大塚夏彦, 深町康 (北大北極セ)</p> <p>「PART-1 Observation」</p> <p>D-2 Toward sustainable meteorological profiling using an inexpensive Unmanned Aircraft Systems in polar regions ○佐藤和敏 (北見工大), 猪上淳 (極地研/総研大)</p> <p>D-3 Pack ice observations by UAV and Sentinel-2 Satellite ○松村寛一郎 (東農大生物産業), Stanley Anak Suab, Ram Avtar (北大院地球環境)</p> <p>D-4 Study on characteristics of zooplankton community in coastal water around Mombetsu during sea ice season ○葛西広海 (水産機構資源研), 片倉靖次 (紋別市), 山崎友資 (蘭越町), 木元克典 (JAMSTEC), 平井惇也 (東大大海研), 松野孝平, 山口篤 (北大院水産)</p> |
| 14:35 | 14:55 休憩 |
| 15:05 | <p>D-5 Consequences of wildfires in boreal forests underlain by ice-rich permafrost near Batagay, NE Siberia ○岩花剛 (北大/アラスカ大), 柳谷一輝, 古屋正人 (北大院理), Petr Danilov (Nort-Eastern Federal Univ., Russia), Nikolai Fedorov (Yakutsk Permafrost Inst, Russia), 阿部隆博 (三重大), 河村巧 (岩田地崎), 蟹江俊仁 (北大工院), 飯島慈裕 (三重大), 田殿武雄 (JAXA), Alexey Desyatkin (Yakutsk Permafrost Inst., Russia/Inst. Biological Problems Cryolithozone, Russia) and Alexander Fedorov (Yakutsk Permafrost Inst., Russia)</p> <p>D-6 Arctic Marine Plastic Pollution -Lectures and discussion meetings on the marine plastic- ○中澤直樹 (システム工学研究所), 赤川敏 (低温圈工学研究所), 岩崎慎介 (寒地土木研), 片石温美 (中央大), 蟹江俊仁 (北大), 木岡信治 (寒地土木研), 児玉祐二 (北大北極セ), 小森谷友絵 (日大生産工), 竹内貴弘 (八戸工業大), 田中雅人 (北大北極セ), 西尾伸也 (日大生産工), 朴昊澤 (JAMSTEC), 矢吹裕伯 (極地研), 山崎健二 (米国陸軍工兵隊)</p> |
| 15:25 | 「PART-2 Engineering」 座長:田中雅人 (北大北極セ) |
| 15:45 | <p>D-7 Needs for technical research on the Arctic region/Seeds analysis and matching study meeting report ○黒川明 (エンジニアリング協会), 山口一 (極地研), 中溝和馬 (三菱造船), 福場覚 (ジャパンマリシュナイティッド), 桑垣俊秀 (INPEX)、柏木孝夫 (商船三井), 吉田基 (ゼニライトイ), 赤根英介 (JAMSTEC), 児玉裕二 (北大北極セ), 矢吹裕伯 (極地研), 田中雅人, 深町康 (北大北極域セ), 菊地隆 (JAMSTEC), 中村哲也 (日油技研工業), 三上正洋 (フィールドプロ), 後藤浩一 (KANSO テクノス), 佐川玄輝 (ウェザーニューズ), 弥富秀文 (キュービック・アイ), 寶楽裕 (パスコ)</p> <p>D-8 Evaluation of ship resistance in ice regime using ice chart ○宇都正太郎 (北大北極セ), 豊田威信 (北大低温研)</p> |
| 16:05 | 16:25 休憩 |
| 16:35 | 「PART-3 Utilization」 |
| 16:55 | <p>D-9 Trans-Arctic submarine fiber-optic cables: Recent developments and future prospects ○Juha Saunavaara (北大北極セ)</p> <p>D-10 Research exchange between Japan and Finland on data centers in the cold climate region ○森太郎 (北大工), Juha Saunavaara (北大北極セ)</p> |
| 17:15 | <p>D-11 Prospects for sustainable development of the cruise industry in the Pacific Arctic: Outcomes of the Japan-Russia online workshop held on 8-9 December 2021 ○Marina Lomaeva, Juha Saunavaara, 田中雅人 (北大北極セ)</p> |
| 17:35 | <p>D-12 Breaking the ice as a tourist experience: Local initiatives facing global challenges ○Juha Saunavaara (北大北極セ), Mari Partanen (JAMK Univ. Applied Sci., Finland /Univ. Oulu, Finland), 福山貴史 (北大観光学高等研セ), 田中雅人 (北大北極セ)</p> |
| 17:55 | <p>D-13 Extracting issues for appropriate Arctic tourism development concerning community resilience ○福山貴史, 上田裕文, 西山徳明, 小林英俊, 岡田真弓 (北大観光学高等研セ) 田中雅人, 大西富士夫, Juha Saunavaara (北大北極域セ), 森太郎 (北大工), 加藤知愛 (北大公共政策大学院), 高橋修平 (流水科学センター), 本多俊和 (放送大学)</p> |

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| | 【E：氷海の生物と水産】 | 座長:田口哲(極地研) |
| 13:30 | E-1 Temporal variation of oceanographic environment in coastal region around Mombetsu, southwestern Okhotsk Sea, in winter -Results from the surveys during sea-ice season by the Garinko-II ○葛西広海(水研機構資源研), 岩本勉之, 片倉靖次(紋別市), 村井克詞, 永田隆一(オホーツクガリンコタワー), 濱岡莊司(元紋別市) | |
| 13:50 | E-2 Responses of phytoplankton assemblages to nutrient availability during summer bloom in Akkeshi Bay ○川田有季(北大院環境), 伊佐田智規(北大フィールド科七), 谷内由貴子(水研機構資源研), 芳村毅(北大院水産), 鈴木光次(北大院地球環境), 葛西広海(水研機構資源研) | |
| 14:10 | E-3 Time-series monitoring by metabarcoding revealed clear seasonal changes in eukaryote biodiversity based on the transition of current systems in Mombetsu, Hokkaido, Japan ○長井敏(水産機構資源研), Sirje Sildever(Tallinn Univ. Tech., Estonia), 西典子, 田澤賢(アクシオヘリックス), 葛西広海(水産機構資源研), 塩本明弘(東京農業大学), 菊地泰生(宮崎大学), 片倉靖次(紋別市) | |
| 14:30 | E-4 Plankton communities of inshore area of southeastern Sakhalin (Sea of Okhotsk) -Plankton of southeastern Sakhalin- ○Olga Mukhametova, Inga Atamanova, Irina Motylkova and Natalia Konovalova(SakhNIRO, Russia) | |
| 14:50 | 休憩 | 座長:長井敏(水産機構資源研) |
| 15:00 | E-5 Vertical distribution, standing stocks, and taxonomic accounts of the entire plankton community, and the estimation of vertical material flux via faecal pellets in the southern Okhotsk Sea ○小嶋大己, 濱尾優介, 松野孝平, ○山口篤(北大院水産) | |
| 15:20 | E-6 Ecological dynamics of marine copepods and viruses in the Okhotsk Sea ○平井惇也(東大大気海洋研), 片倉靖次(紋別市), 長井敏(水産機構資源研) | |
| 15:40 | E-7 Euthecosomatous pteropod (Sea butterfly) <i>Limacina helicina</i> in the southern Okhotsk Sea: Morphological variability and plasticity to ocean environmental changes ○木元克典(JAMSTEC), 清水啓介(東大院農), 脇田昌英(JAMSTEC), 下島公紀(東京海洋大洋資源), 山口篤, 松野孝平(北大院水産), 葛西広海(水産機構資源研), 吉田瞳(オホーツクガリンコタワー), 片倉靖次(紋別市) | |
| 16:00 | E-8 Quantification of species-specific biogenic silica flux of radiolarians (Rhizaria) in the western Arctic Ocean using microfocus X-ray computed tomography ○池上隆仁, 木元克典, 中村由里子(JAMSTEC), Kjell R. Bjørklund(Univ. Oslo, Norway), 倉本直樹, 植木正明, 大田由一(産総研), 小野寺丈尚太郎, 原田尚美, 本多牧生, 佐藤都, 渡邊英嗣, 伊東素代, 西野茂人, 菊地隆(JAMSTEC) | |
| 16:20 | 休憩 | 座長:佐々木義隆(道総研さけます内水試) |
| 16:30 | E-9 Detection of fish environmental DNA from under-ice water and sea ice in Saroma-ko Lagoon, Hokkaido, Japan ○川上達也, 尾崎誠(北大院水産), 山崎彩(京大学際七), 野村大樹(北大北方七), 笠井亮秀(北大院水産) | |
| 16:50 | E-10 Distribution of Russian catches of walleye pollock in the Sea of Okhotsk in connection with Lagrangian water properties -Catches and Lagrangian water properties- ○Vladimir Kulik(TINRO-Center, Russia), Maxim Budyansky(V.I.Ill'ichev Pacific Oceanological Inst., Russia), Kirill Kivva(Russian Federal Res. Inst. Fish. Oceanography, Russia), Michael Uleysky and Sergey Prants(V.I.Ill'ichev Pacific Oceanological Inst., Russia) | |
| 17:10 | E-11 Global seafood marketing amid the coronavirus pandemic by FAO GLOBEFISH market reports in 2020 and 2021 ○清水幾太郎(北海道鮭鱈流通経済研究所) | |
| 17:30 | E-12 Distribution of black-eared kites in relation to river scale ○松本経(北見工大) | |
| 17:50 | E-13 Khairussova-Belogolovaya estuary(Kamchatka, Russia)-one of the main stopovers of EAAF for the long-distance wader migrants on the southward migration ○Dmitry Dorofeev and A. Ivanov(All-Russian Res. Inst. Environmental Protection, Russia) | |

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| | 【F:淡水供給】 | 座長:道田豊(東大大気海洋研) |
| 9:00 | F-1 Estimation of freshwater discharge from the Gulf of Alaska drainage basins ○Peng Xin(北大院環境), 三寺史夫(北大低温研), Muqing Shi(北大院環境), 白岩孝行(北大低温研) | |
| 9:20 | F-2 Hydrological zoning of rivers in the Kamchatka Peninsula based on discharge and meteorological features ○Muqing Shi(北大院環境), 白岩孝行(北大低温研) | |
| 9:40 | F-3 Estimation of freshwater discharge by using Acoustic Doppler Current Profilers in a tidal zone, Bekanbeushi River, Hokkaido ○Manhui Ding(北大院環境), 白岩孝行(北大低温研) | |
| 10:00 | F-4 Changes of Geo-Runoff Components in Russian Arctic Rivers ○A. Georgiadi, E. Kashutina and I. Milyukova (Inst. Geography, RAS, Russia) | |
| 10:20 | 休憩 | |
| | 【G:気候変化】 | 座長:豊田隆寛(気象研) |
| 10:30 | G-1 Mechanism of warming of the ocean -“ENSO in Pacific Ocean”- ○中陣隆夫(東海大学) | |
| 10:50 | G-2 Atmospheric warming over the Barents Sea during moisture intrusion events in January 2006 ○万田敦昌(三重大) | |
| 11:10 | G-3 Impact of climate change on snow and lifestyle in winter Hokkaido, Japan ○鈴木啓明 野口泉、濱原和広, 山口高志(道総研エネルギー・環境・地質研究所) | |
| 11:30 | G-4 Evaluation of the factors contributing to the mid-20th century Arctic cooling ○相澤拓郎(極地研/気象研), 大島長, 行本誠史(気象研) | |
| 12:00 | 昼食 | |
| | 【H:オホーツク海】 | 座長:佐藤和敏(北見工大) |
| 13:00 | H-1 Sea fog characteristics of the Okhotsk Sea ○大河内雄太, 森智聰, 安川礼人(稚内地方気象台) | |
| 13:20 | H-2 Shiretoko marine project on prediction of sea ice variations due to climate change, and its impacts on biogeochemical processes and marine ecosystems ○三寺史夫(北大低温研), 植田宏昭(筑波大), 中村知裕, 西岡純(北大低温研), 山村織生(北大院水産), 佐伯立(北大低温研), 白井知輝(北大院環境), 中野渡拓也(水研機構資源研) | |
| 13:40 | H-3 Sea ice variability along the Okhotsk coast of Hokkaido based on long-term JMA meteorological observatory data ○豊田隆寛, 北村佳照(気象研), 岡田良平(気象庁大気海洋部), 松村寛一郎(東農大生物産業), 小松謙介, 坂本圭, 浦川昇吾, 中野英之(気象研) | |
| 14:00 | 休憩 | |
| | 【I:リモートセンシング】 | 座長:館山一孝(北見工大) |
| 14:10 | I-1 Observations of ice cakes with a drone in the southern Sea of Okhotsk ○豊田威信, 在原百合子(北大低温研), 早稻田卓爾(東大院新領域), 伊藤優人(極地研), 西岡純(北大低温研) | |
| 14:30 | I-2 Snowfall detection by a newly deployed X-band Doppler radar at Syowa Station, Antarctica ○平沢尚彦(極地研/総研大), 小西啓之(大阪教育大), 藤吉康志(北大名誉教授), 柴田和宏(極地研), 岩本勉之(紋別市) | |
| 14:50 | I-3 Spatial heterogeneity of post-fire abrupt permafrost thaw detected by L-band InSAR and on-site observations at Batagay, Northeastern Siberia ○柳谷一輝, 古屋正人(北大院理), 岩花剛(北大北極セ/アラスカ大学), Petr Danilov(North-Eastern Federal Univ, Russia) | |
| 15:10 | 休憩 | |
| | 【J:工学】 | 座長:泉山耕(北大北極域セ) |
| 15:20 | J-1 A case study: Development of water wave measurement systems under the self-made principle ○Vitaly Kuzin and Andrey Kurkin(Nizhny Novgorod State Tech. Univ. n.a. R.E. Alekseev, Russia) | |
| 15:40 | J-2 Use of GIMS -technology for diagnostics of the state of the Arctic aquasystem ○Ferdenant Mkrtchyan(Kotelnikov Inst. Radioengin. Electronics, Russia) | |
| 16:00 | J-3 Main features of wind wave climate of the Japan, Okhotsk and Bering Seas ○Stanislav Myslenkov(Lomonosov Moscow State Univ., Russia) | |
| 16:20 | J-4 Field observation and image analysis of the effects of river ice on concrete structures ○阿部孝章, 横山洋, 大串弘哉(寒地土研) | |
| 16:40 | 【学術分科会閉会式】 | 司会:片倉靖次(紋別市) |
| | 閉会のことば: 高橋修平(北方圏国際シンポジウム実行委員会) あいさつ: 大塚夏彦(北海道大学北極域研究センター) | |

