



国立極地研究所

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第3回極域科学シンポジウム

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第3回極域科学シンポジウム

横断セッション「海・陸・氷床から探る後期新生代の南極寒冷圏環境変動」

口頭発表

11月26日 (月) 国立国語研究所 2階講堂

9:30-9:40	Opening remarks: K. Shiraishi (NIPR)		
Chair: Yusuke Suganuma (NIPR)			
9:40-10:10	Antarctic Cryosphere Evolution Project (AnCEP): New IODP proposal for transect drilling in the Southern Ocean	Minoru Ikehara (Kochi Univ.), Yoshifumi Nogi (NIPR), Yusuke Suganuma (NIPR), Robert Dunbar (Stanford Univ.), Boo-Keun Khim (Pusan Univ.), Tim Naish (Victoria Univ.), Richard Levy (GNS Science), Xavier Crosta (Universite Bordeaux), Laura De Santis (Istituto Nazionale di Oceanografia e Geofisica Sperimentale), Hideki Miura (NIPR), Hisashi Oiwane (NIPR), Kota Katsuki (KIGAM), Takuya Itaki (AIST), Yasuyuki Nakamura (JAMSTEC), Shungo Kawagata (Yokohama National Univ.), Masao Iwai (Kochi Univ.), Hiroshi Sato (Senshu Univ.)	J277_C_IkeharaMinoru
10:10-10:40	High-resolution CaCO ₃ variation of core COR-1bPC in the Conrad Rise in the Indian Sector of the East Antarctic	B.K. Khim (Pusan Univ.), M. Ikehara (Kochi Univ.), Y. Nogi (NIPR), KH10-07 Shipboard Scientists	E40_G_BKKhim
10:40-11:00	Ocean front migration over the Conrad Rise in the Indian Sector of the Southern ocean since the last glacial maximum	Kota Katsuki (KIGAM), Minoru Ikehara (Kochi Univ.), Yusuke Yokoyama (AORI), Masako Yamane (AORI)	J51_C_KatsukiKota
11:00-11:10	Coffee Break		
Chair: Ayako Sugisaki			
11:10-11:30	Magnetic susceptibility variations in southern Ocean sediments induced by iron fertilization	Toshitsugu Yamazaki (AORI, Univ. Tokyo), Minoru Ikehara (Kochi Univ.)	J32_C_YamazakiToshitsugu
11:30-12:10	The paleoceanography of the Antarctic Circumpolar Current and the Weddell Gyre from sedimentary records, a patchy story	Gerhard Kuhn (AWI)	E26_C_GerhardKuhn
12:10-13:00	Lunch		
13:00-13:40	Poster Session		
Chair: Minoru Ikehara (NIPR)			
13:40-14:20	Past Antarctic Ice Sheet Dynamics	Carlota D. Escutia	J317_C_EscutiaCarlota
14:20-14:40	Antarctic Circumpolar Current Fluctuation in the Late Neogene: constraint from sediment wave on the Conrad Rise, Indian Sector of the Southern Ocean	Hisashi Oiwane (NIPR), Minoru Ikehara (Kochi Univ.), Yusuke Suganuma (NIPR), Hideki Miura (NIPR), Yasuyuki Nakamura (JAMSTEC), Taichi Sato (AIST), Yoshifumi Nogi (NIPR)	J229_C_OiwaneHisashi
	Geomagnetic intensity as a tool for high		

14:40-15:00	resolution stratigraphy for marine sediments and ice cores	Yusuke Suganuma (NIPR)	J14_C_Suganuma2
15:00-15:40	Why and How did the Middle Pleistocene Transition occurred? -Modelling challenge of the ice sheet change in both hemispheres	Ayako Abe-Ouchi (AORI, Univ. Tokyo), F. Saito (JAMSTEC), K. Takahashi (JASMTEC), K. Kawamura (NIPR), M. Raymo (Columbia Univ.), H. Blatter (ETHZ)	J321_C_AbeAyako
15:40-16:00	Coffee Break		
Chair: Takuro Kobashi (NIPR)			
16:00-16:40	Ice cores: 800,000 years and beyond	Eric Wolff (BAS) on behalf of the entire EPICA team2	E6_P_EricWolff
16:40-17:10	Climatic and atmospheric histories over the past 700,000 years from the Dome Fuji deep ice core, Antarctica	Kenji Kawamura (NIPR), Shuji Aoki (Tohoku Univ.), Takakiyo Nakazawa (Tohoku Univ.), Frédéric Parrenin (LGGE), Kazue Suzuki (ISM), Ryu Uemura (Univ. Ryukyus), Ayako Abe-Ouchi (AORI), Hideaki Motoyama (NIPR)	J316_C_KawamuraKenji
17:10-17:30	Ice Core Records of Antarctic Warming Events in the Last Glacial Period	Kumiko Goto-Azuma (NIPR), Takuya Tatenuma (NIPR), Motohiro Hirabayashi (NIPR), Takayuki Miyake (Uiv. Shiga Prefecture), Takayuki Kuramoto (Shinshu Univ.), Ryu Uemura (Univ. Ryukyus), Hideaki Motoyama (NIPR), Kenji Kawamura (NIPR), Shuji Fujita (NIPR)	E16_C_AzumaKumiko
17:30-18:10	The Evolution and Climate of the Greenland Ice Sheet as seen in Ice Core $\delta^{18}O$	Bo M. Vinther	E22_S_BoVinther

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11月27日 (火) 国立国語研究所 2階講堂

Chair: Kumiko Goto-Azuma (NIPR), Hideki Miura (NIPR)			
9:00-9:20	Chemical composition and their characteristics of shallow ice cores drilled at Dome Fuji, East Antarctica	Kazuya Takahashi (RIKEN), Yuko Mochizuki (RIKEN), Yoichi Nakai (RIKEN), Keisuke Suzuki (Shinshu Univ.), Hideaki Motoyama (NIPR), Akira Hori (Kitami Inst. Tec.)	J193_C_TakahashiKazuya
9:20-9:40	Experimental and theoretical diagnoses of yearly-scale nitrate ion spikes observed in a Dome Fuji shallow ice core	Yuko Motizuki (RIKEN), Yoichi Nakai (RIKEN), Kazuya Takahashi (RIKEN), Hideaki Motoyama (NIPR), Keisuke Suzuki (Shinshu Univ.), Kentaro Sekiguchi (RIKEN), Hideharu Akiyoshi (NIES), Takashi Imamura (NIES), Kenji Tanabe (Okayama Univ. of Science)	J278_C_MotizukiYuko
9:40-10:10	Radar diagnosis of the subglacial conditions in Dronning Maud Land, East Antarctica - a site survey for drilling the oldest ice -	Shuji Fujita (NIPR), P. Holmlund (Stockholm Univ.), K. Matsuoka (Norwegian Polar Institute), H. Enomoto (Kitami Institute of Technology, NIPR), K. Fukui (NIPR, now at: Tateyama Caldera Sabo Museum), F. Nakazawa (NIPR), S. Sugiyama, S. Surdyk (NIPR)	J311_S_FujitaShuji
10:10-10:30	Hot water drilling and measurements beneath the grounding zone of Langhovde Glacier, East Antarctica	Shin Sugiyama (ILTS, Hokkaido Univ.), Takanobu Sawagaki (Hokkaido Univ.), Takehiro Fukuda (ILTS, Hokkaido Univ.), Shigeru Aoki (Hokkaido Univ.), Satoshi Imura (NIPR)	J111_S_SugiyamaShin
10:30-10:50	Borehole video observation of Langhovde Glacier, Antarctica	Takanobu Sawagaki (Hokkaido Univ.), Shin Sugiyama (ILTS, Hokkaido Univ.), Takehiro Hukuda (ILTS, Hokkaido Univ.)	J89_C_SawagakiTakanobu
10:50-11:10	The change of terminus and grounding positions and ice velocity field in Langhovde glacier, Antarctica.	Takehiro Fukuda (ILTS, Hokkaido Univ.), Shin Sugiyama (ILTS, Hokkaido Univ.), Takanobu Sawagaki (Hokkaido Univ.), Kazuki Nakamura (Nihon Univ.)	J261_C_FukudaTakehiro
11:10-11:30	Coffee Break		
Chair: Hisashi Oiwane (NIPR)			
11:30-12:10	New findings of Antarctic Bottom Water: Ongoing warming/freshening and a discovered AABW source	K. I. Ohshima (ILTS, Hokkaido Univ.), Y. Fukamachi (ILTS, Hokkaido Univ.), S. Aoki (ILTS, Hokkaido Univ.), T. Tamura (NIPR), G. D. Williams (ACE CRC)	J64_C_OhshimaKay
12:10-13:00	Lunch		
13:00-14:00	Poster Session		
Chair: Takanobu Sawagaki (Hokkaido Univ.)			

14:00-14:30	The recent study of the Quaternary East Antarctic ice-sheet history by Japanese Antarctic Research Expedition	Hideki Miura (NIPR)	J48_C_MiuraHideki
14:30-14:50	The linkage between the East Antarctic Ice Sheet fluctuations and global climate changes during the Plio-Pleistocene	Masako Yamane (Univ. Tokyo), Yusuke Yokoyama (Univ. Tokyo)	J62_C_YamaneMasako_2
14:50-15:10	Coffee Break		
Chair: Kota Katsuki (KIGAM)			
15:10-15:50	An Ultra-High Resolution Sediment Record of Deglacial and Holocene Climate Change in East Antarctica: IODP Exp 318 Hole 1357 - The Adélie Basin	Robert B. Dunbar (Stanford), Rob McKay (VUW), Francis Jimenez (U. Granada/JAMSTEC), Steve Pekar (CUNY), James Bendle (U. Glasgow), Veronica Wilmott (NIOZ), Lisa Tauxe (SIO), B.K. Khim (U. Pusan), J. Kim (U. Pusan), Johan Etourneau (U. Pierre et Marie Curie), Xavier Crosta (U. Bordeaux), Guillaume Masse (U. Pierre et Marie Curie), J. Pike (Cardiff U.), T. Gregory (Cardiff U.), Uwe Morgenstern (GNS Science), M. Yamane (U. Tokyo), N. Ohkouchi (JAMSTEC), Y. Yokoyama (U. Tokyo), C. Escutia (U. Granada), H. Brinkhuis (U. Utrecht/NIOZ), and the Exp318 party	E56_C_RobertDunbar
15:50-16:10	Radiocarbon dating of sedimentary fatty acids as a method for determining precise chronology of Antarctic margin sediments	Naohiko Ohkouchi (JAMSTEC), Hisami Suga (JAMSTEC), Masako Yamane (AORI, Univ. Tokyo), Yusuke Yokoyama (AORI, Univ. Tokyo)	J68_C_OhkouchiNaohiko
16:10-16:30	Application of compound-specific ¹⁴ C dating to IODP Exp.318 U1357A core	Masako Yamane (Univ. Tokyo), Yusuke Yokoyama (Univ. Tokyo), Yosuke Miyairi (Univ. Tokyo), Hisami Suga (JAMSTEC), Hiroyuki Matsuzaki (Univ. Tokyo), Naohiko Ohkouchi (JAMSTEC)	J58_C_YamaneMasako_1
16:30-16:50	Rapid Holocene retreat of Ross Ice Shelf recorded in sedimentary ¹⁰ Be and fatty acid radiocarbon	Yusuke Yokoyama (AORI, Univ. Tokyo), Takahiro Yamazaki (AORI, Univ. Tokyo), Yosuke Miyairi (AORI, Univ. Tokyo), John B. Anderson (Rice Univ.), Mamito Koizumi (AORI, Univ. Tokyo), Hisami Suga (JAMSTEC), John R. Southon (Univ California, Irvine), Hiroyuki Matsuzaki (MALT, Univ Tokyo), Naohiko Ohkouchi (JAMSTEC)	J82_C_YokoyamaYusuke

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26-C1-1	A comparison of dust concentration with high resolution analysis and visible strata in the Holocene and Last Glacial Maximum periods from the Dome Fuji ice core, East Antarctica	Takayuki Miyake (NIPR, Univ. Shiga Prefecture), Morimasa Takata (Nagaoka Univ. Tech.), Takahiro Yanagisawa (Nihon Univ.), Kiyofumi Sano (Nihon Univ.), Ryu Uemura (Univ. Ryukyus), Yoshiyuki Fujii (NIPR), Hideaki Motoyama (NIPR)	J11_C_MiyakeTakayuki
26-C1-2	Pliocene anisotropy of magnetic susceptibility (AMS) and diatom stratigraphy from the Wilkes Land margin	Saiko Sugisaki (Scripps Institution of Oceanography, Univ. Tokyo), Lisa Tauxe (Scripps Institution of Oceanography), Masao Iwai (Kochi Univ.), Tina van de Flierdt (Imperial College), Carys P. Cook (Imperial College), Francisco J. Jimenez-Espejo (IACT-CSIC-Univ. Granada), Sandra Passchier (Montclair State Univ.), Ursula R?hl (MARUM, Univ. Bremen), Jhon Gonzalez (IACT-CSIC-Univ. Granada), Carlota Escutia (IACT-CSIC-Univ. Granada)	J274_C_SugisakiSaiko
26-C1-3	Greenland temperature responses to climate forcings over the past 4000 years	Takuro Kobashi (NIPR)	J309_C_KobashiTakuro
26-C1-4	Late Miocene through Pliocene diatoms from Integrated Ocean Drilling Program Site U1361 off Wilkes Land, East Antarctica	Masao Iwai, Munemasa Kobayashi (Kochi Univ.), the IODP Expedition 318 onboard scientists.	J293_C1_IwaiMasao
26-C1-5	Glacial history of Sør Rondane Mountains in Dronning Maud Land, East Antarctica introduced by geomorphology and surface exposure ages	Yusuke Suga (NIPR), Hideki Miura (NIPR), Albert Zondervan (GNS)	J13_C_SuganumaYusuke_1
26-C1-6	Marine Isotope Stage 3 and Holocene relative sea level variations in East Antarctica derived from glacial isostatic adjustment modelling	Jun'ichi Okuno (NIPR), Hideki Miura (NIPR)	J241_C_OkunoJunichi

26-C1-7	Sea ice and biological production variability reconstructed in the Adélie Basin, East Antarctica, during the late Holocene	Etourneau, J (Univ. Pierre et Marie Curie), Campagne, P (Univ. Pierre et Marie Curie), Jiménez, F (CSIC-Univ), Djouraev, I (Univ. Pierre et Marie Curie), Escutia, C (CSIC-Univ), Dunbar R (Stanford Univ.), Crosta, X (Univ. Bordeaux), Massé, G (Univ. Pierre et Marie Curie)	J318_C_EtourneauJ
26-C1-8	Molecular and hydrogen isotope evidence of Holocene climate and cryosphere variability: results from a sediment core from the Adélie coast, Antarctica (IODP Expedition 318)	James Bendle (Glasgow Univ), Osamu Seki (ILTS, Hokkaido Univ.), Henk Brinkhuis (Utrecht Univ.), Jaime Toney (Glasgow Univ), Kimitaka Kawamura (ILTS, Hokkaido Univ.), Veronica Willmott (NIOZ), Stefan Schouten (NIOZ), Francesca Sangiorgi (Utrecht Univ.), Robert McKay (ARC), Christina Riesselman (USG), Robert Dunbar (Stanford Univ.), and the 318 IODP Expedition Science Party	J99_C_SekiOsamu
*27-B-02	Holocene paleolimnological studies of lakes in the Soya Kaigan of Antarctica inferred from the analyses of lake sediment cores	Genki I. Matsumoto (Otsuma Women's Univ.), Eisuke Honda (Otsuma Women's Univ.), Yukinori Tani (Univ. Shizuoka), Koji Seto (Shimane Univ.), Takahiro Watanabe (Tohoku Univ.), Syuji Ohtani (Shimane Univ.), Kaoru Kashima (Kyushu Univ.), Satoshi Imura (NIPR), Toshio Nakamura (Nagoya Univ.), Keisuke Ito (Otsuma Women's Univ.), Shigeru Ikuta (Otsuma Women's Univ.)	J19_B_MatsumotoGenkiI
*27-B-03	Holocene paleolimnological studies in Lake Maruwan-oike of Soya Kaigan in Antarctica inferred from the analyses of sediment core	Keisuke Ito (Otsuma Women's Univ.), Yukinori Tani (Univ. Shizuoka), Koji Seto (Shimane Univ.), Takahiro Watanabe (Tohoku Univ.), Syuji Ohtani (Shimane Univ.), Satoshi Imura (NIPR), Toshio Nakamura (Nagoya Univ.), Yuka Kakinuma (Otsuma Women's Univ.), Eisuke Honda (Otsuma Women's Univ.), Shigeru Ikuta and Genki I. Matsumoto (Otsuma Women's Univ.)	J102_B_ItoKeisuke
*27-B-04	Paleoenvironmental changes of late Holocene in the fresh-water lake of the Skarvsnes region in the Soya Coast, East Antarctica	Tomohiro Okamoto (Shimane Univ.), Koji Seto (ReCCLE Shimane Univ.)	J295_B_OkamotoTomohiro

* Reference posters from Biology session

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