Recent developments in Paleo-environmental studies -Bremen University, National Taiwan University, Vietnam National University Hanoi University of Science & Hokkaido University Joint Workshop-

14-17 Feb 2014 Sapporo, Japan

10:00- 16:30	14 Feb, 2014 (Fri) Pre-Workshop meeting with respective hosts
10:00- 10:15	15 Feb, 2014 (Sat) Welcome remarks and logistics
10:15- 10;45	Holocene changes in the Bering Strait inflow Masanobu Yamamoto (Faculty of Environmental Earth Science, Hokkaido Univ.)
-Coffee break-	
11:00-11:30	Recent development in paleoclimate study in Vietnam Nguyen Thuy Duong, and Nguyen Van Vuong (VNU-Hanoi Univ. of Science)
11:30-12:00	Tropical climate and vegetation response to Heinrich Event 1 <u>Dian Handiani</u> ¹ , André Paul ^{2,3} , Matthias Prange ^{2,3} , Ute Merkel ^{2,3} , Lydie Dupont ³ , and Xiao Zhang ² (¹ JAMSTEC, ² Dept. of Geosciences, Univ. of Bremen, ³ MARUM, Univ. of Bremen)
-Lunch Break-	
13:30-14:00	Reconstruction of vertical thermal structure in the western tropical Pacific: A Multi-planktonic foraminiferal Mg/Ca approach Takuya Sagawa (Faculty of Sciences, Kyushu Univ.)
14:00-14:30	Seasonal to decadal climate signals in skeletal growth and trace elements of the Pacific sclerosponge Kazuto Ohmori (Faculty of Science, Hokkaido Univ.)

-Coffee Break and Poster Session-

15:45-16:15 Monthly resolved coral records of past Caribbean climate

Thomas Felis, Cyril Giry, Henry C. Wu, and William M. Brocas (MARUM, Univ. of Bremen)

16:15-16:45 Rapid events in the Arctic Ocean and their linkageto the global climate system

<u>Ludvig Löwemark</u> (Dept. of Geosciences, National Taiwan Univ.)

16:45-17:15 Mid- to Late-Holocene Australian-Indonesian summer monsoon variability

<u>Stephan Steinke¹</u>, Mahyar Mohtadi¹, Matthias Prange¹, Vidya Varma^{1,2}, Daniela Pittauerova³, and Helmut W. Fischer³ (¹MARUM, Univ. of Bremen ²Dept. of Meteorology, Stockholm Univ., ³Inst. of Environmental Physics, Univ. of Bremen)

16 Feb 2014 (Sun)

9:30-10:00 Evidence for coupling between CO₂ and climate in the late Cenozoic cooling

Osamu Seki¹, Daniela N. Schmidt², Kimitaka Kawamura¹, Richard D. Pancost³ (¹Inst. of Low Temperature Science, Hokkaido Univ., ²School of Earth Sciences, Univ. of Bristol, ³School of Chemistry, Univ. of Bristol)

10:00-10:30 Paleoceanographic change related to the Mediterranean Outflow Water around the Iberian Margin: Implication for marine productivity reconstructed by biomarker analysis Satoshi Furota, Ken Sawada (Faculty of Science, Hokkaido Univ.)

-Coffee Break-

10:45-11:15 Coral evidence of El Niño variability during the Pliocene warm period

Tsuyoshi Watanabe¹, Atsushi Suzuki², Shoshiro Minobe¹, Tatsunori Kawashima¹, Koji Kameo³, Kayo Minoshima², Yolanda M. Aguilar⁴, Ryoji Wani⁵, Hodaka Kawahata⁶, Kohki Sowa¹, Takaya Nagai¹, Tomoki Kase⁷ (¹Faculty of Science, Hokkaido Univ., ²National Institute of Advanced Industrial Science and Technology, Tsukuba, ³Faculty of Science, Chiba Univ., ⁴Petrolab, Mines and Geosciences Bureau, ⁵Interdisciplinary Research Center, Yokohama National Univ., ⁶Atmosphere and Ocean Research Inst., Univ. of Tokyo, ⁷Dept. of Geology and Paleontology, National Museum of Nature and Science, Tokyo)

Variations in primary production of cyanobacteria, dinoflagellate and coccolithophorid reconstructed by biomarkers analyses of the mid-Cretaceous Oceanic Anoxic Events (OAEs) sediments in the Vocontian Basin, SE France

<u>Takuto Ando¹</u>, Ken Sawada¹, Reishi Takashima², Hiroshi Nishi² (¹Faculty of Science, Hokkaido Univ., ²Museum of Tohoku Univ., Tohoku Univ.)

-Lunch Break-

13:15-13:45	Pacific Equatorial Age Transect: Exploring the Cenozoic History of the Pacific
	Heiko Pälike ¹ et al. (¹ MARUM, Univ. of Bremen)
13:45-14:15	Variations in sea surface temperature and primary productivity reconstructed by algain
	biomarkers in the Neogene equatorial Pacific sediments
	Ken Sawada ¹ , Hideto Nakamura ¹ , Madoka Kobayashi ¹ , Shinya Yamamoto ² (¹ Faculty of Science
	Hokkaido Univ., ² Yamanashi Inst. of Environmental Sciences)
	-Coffee Break-
14:30-15:00	A biomarker perspective on the variation of terrigenous matter transport in the Neogene
	eastern equatorial Pacific sediment
	Hideto Nakamura ¹ , Ken Sawada ¹ , Madoka Kobayashi ¹ , Shinya Yamamoto ² (¹ Faculty of Science
	Hokkaido Univ., ² Yamanashi Inst. of Environmental Sciences)
15:00-15:30	Climate variability in the Andes during the last 25 m.y. deduced from the mineral
	composition of ODP Site 1237, the southeastern Pacific
	Irino, T., Noma, E., Hasrizal, B.S., Yamamoto, M. (Faculty of Environmental Earth Science
	Hokkaido Univ.)
15:30-16:00	Patterns of Evolution and Environmental change: the Panama Gateway closure
	Helena Fortunato (Faculty of Science, Hokkaido Univ.)
	-Break-
16:15-16:45	TBA
16:45-17:15	TBA
	17 Feb 2014 (Mon)
10:00-17:00	Discussion on future cooperation

Outreach activity "Sci-Tech Talk" (Stephan Steinke and Ludvig Lowemark)

17:30-

-Poster Session-

1. Daily growth and trace elemental analysis in Tridacna shells from Okino-tori island, Japan: Possible new typhoon proxy

<u>Taro Komagoe¹</u>, Tsuyoshi Watanebe¹, Kotaro Shirai² (¹Faculty of Science, Hokkaido Univ., ²Atmosphere and Ocean Research Inst., Univ. of Tokyo)

- 2. Lipid biomarker compositions in culture strains of marine picoplankton Parmales and Bolidomonas <u>Chisato Kanou¹</u>, Ken Sawada¹, Akira Kuwata², Shinya Yoshikawa³, Mutsuo Ichnomiya⁴, Masanobu Kawachi⁵ (¹Faculty of Science, Hokkaido Univ., ²Tohoku National Fisheries Research Inst., ³Fukui Prefectural Univ., ⁴Prefectural Univ. of Kumamoto, ⁵Center for Environmental Biology and Ecosystem studies, National Inst. for Environmental Studies, Tsukuba)
- 3. **High-resolution isotopic records in Oman corals: Indian Monsoon climate reconstructiond**<u>Takaaki Watanabe¹, Tsuyoshi Watanabe¹, Atsuko Yamazaki², Michel R Claereboudt³, Miriam Pfeiffer⁴

 (¹Faculty of Science, Hokkaido Univ., ²Atmosphere and Ocean Research Inst., ³Sultan Qaboos Uinv., ⁴RWTH Aachen)</u>
- 4. Multidecadal climatic reconstruction using sclerochronological and geochemical approaches of freshwater peal mussels in Hokkaido, Japan

<u>Mayumi Suzuki¹</u>, Tsuyoshi Watanabe¹, and Kotaro Shirai² (¹Faculty of Science, Hokkaido Univ., ²Atmosphere and Ocean Research Inst., Univ. of Tokyo)

5. Diagenetic alteration of long chain alkenones during early stage of thermal maturation: examination for haptophyte biomarker in ancient sediment

Ryohei Abe, Ken Sawada, Hideto Nakamura (Faculty of Science, Hokkaido Univ.)

6. Paleoenvironmental variations recorded by kerogens in middle Miocene turbidite sediments of the Kawabata Formation, central Hokkaido, Japan

<u>Takaaki Mori</u>¹, Ken Sawada¹, Satoshi Furota¹, Gentaro Kawakami² (¹Faculty of Science, Hokkaido Univ., ²Geological Survey of Hokkaido)

7. Paleovegetation schanges reconstructed by new proxies for *n*-alkyl lipids released from terrestrial plant-derived kerogens by hydrolysis in Cretaceous sediments, Hokkaido, Japan

Yuma Miyata, Hideto Nakamura, Ken Sawada (Faculty of Science, Hokkaido Univ.)

8. Paleoenvironment and paleoecosystem reconstructed by thermochemolysis of kerogens in sedimentary rocks at the Permian-Triassic transition in South China

<u>Shuji Ogata</u>¹, Ken Sawada¹, Kunio Kaiho² (¹Faculty of Science, Hokkaido Univ., ²Inst. of Geology and Paleontology, Tohoku Univ.)

9. Surface ocean current and ice drift in the Northwind and Chukchi basins in the western Arctic Ocean during the last 76,000 years

Kenta Suzuki (Faculty of Science, Hokkaido Univ.)

10. Variation of very fine grained black carbon supply to a northern island of Japan during the last 5 ky

Y. Nakai, T. Irino, and K. Kawamura (Faculty of Environmental Science, Hokkaido Univ.)