

Special volume of "Biogeoscience":

Catastrophic reduction of sea-ice in the Arctic Ocean

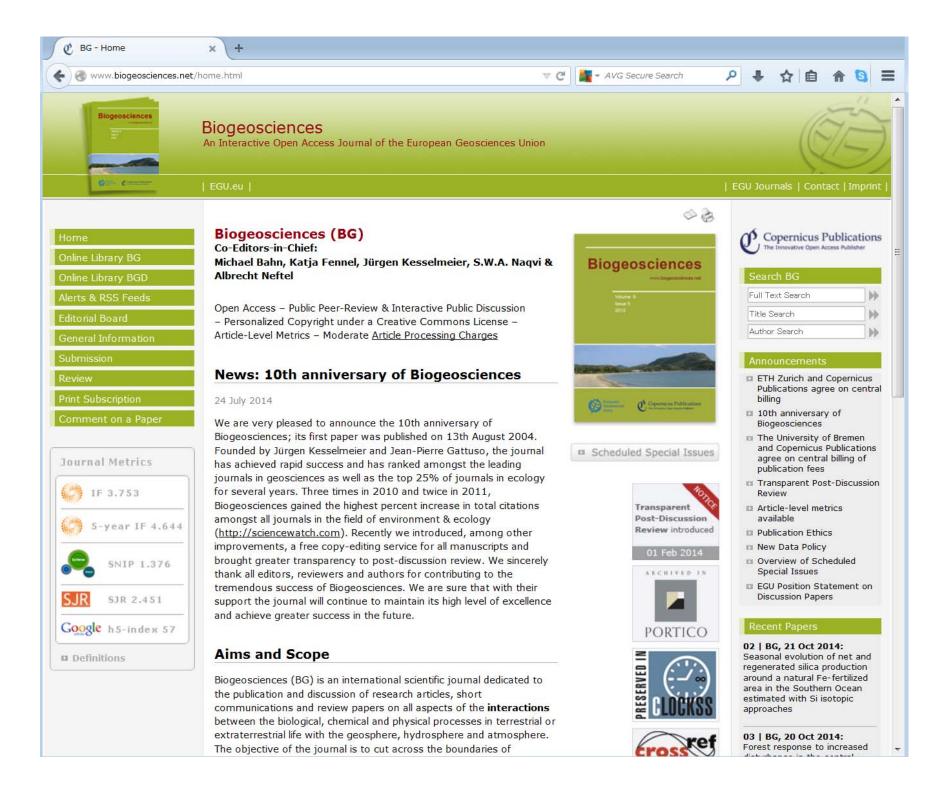
 its impact on the marine organisms and ecosystems in the polar region –

This special volume will be mainly composed of results from two on-going Japanese projects for the Arctic Ocean marine ecosystem;

- "ECOARCS/GRENE" project led by Dr. T. KIKUCHI
- The project titled "Catastrophic reduction of sea-ice in the Arctic Ocean its impact on the marine ecosystems in the polar region—" led by Dr. N.HARADA

Guest Editors: T. Hirawake, Y. Watanuki, J. Grebmeier, M. Chierici, M. Yamamoto-Kawai, M. Sampei, and K. Suzuki (Biogeoscience editor)

Time frame: 2 Sept 2014 - 30 Apr 2015
31 July 2015





Title list of Planned articles to be submitted to the special issue of Biogeoscience

MSNo.	Authors	Title
1	Jiang, K., J. Zhang*, S. Hirayama, M. Yamamoto-Kawai, T. Hirawake	Biogeochemical process of surface sediment and its changes in Chukchi Sea using rare earth elements
2	Kondo Y., H. Obata, A. Ooki, S. Nishino, T. Kukuchi, N. Hioki, K. Kuma	Distributions of trace metals (Cu, Zn, Mn, Ni, Pb and Cd) in the western Arctic Ocean
3	Mizobata K., E. Watanabe, N. Kimura	Intraseasonal variability of the Beaufort Gyre and its impact on the distribution of Pacific-origin water in the Pacific sector of the Arctic Ocean
4	Nishino, S. and T. Kikuchi+GRENE collaborator	Water mass characteristics and their temporal changes in the biological hotspot of the southern Chukchi Sea
5	Ota, N., H. Ueno, M. Itoh, T. Kikuchi, K. Mizobata, E. Watanabe	Heat budget of the Chukchi Sea
6	Yamamoto-Kawai, M. and Miftune T.	Distribution of aragonite undersaturated water in Chukchi Sea
7	Zhang* J., S. Hirayama, K. Jiang, H. Narita, S. Nishino, M. Yamamoto-Kawai, K. Shimada and T. Kikuchi	Water mass structure and nutrient distribution of the western Arctic Ocean using chemical tracers
8	Fujiwara A., T. Hirawake, K. Suzuki, I. Imai, L. Eisner, S. Saitoh	Inter annual variability of phytoplankton community size structure and primary production in the Chukchi and Bering Sea shelf region: a satellite remote sensing approach
9	lkenoue T., K.R. Bjørklund, P. Dumitrica, S. Kruglikova, A. Krabberød, K. Kimoto	Joergensenium xxxxx n. gen., n. sp. (Entactinaria, Radiolaria): its distribution of Canada basin and northwind abyssal plain in the western Arctic Sea.
10	Itoh M., M. Kitamura, J. Onodera, A. Fujiwara, T. Hirawake, S. Nishino, T. Kikuchi	Temporal variability of zooplankton biomass from ADCP time series data in the Western Arctic
11	Kimoto, K., J. Onodera, N. Harada, M. Honda, Y. Tanaka	Calcareous zooplankton flux seasonality in the Arctic sediment traps.
12	Matsuno, K., A. Yamaguchi, A. Fujiwara, J. Onodera, E. Watanabe, N. Harada, T. Kikuchi	Seasonal changes in zooplankton swimmer and faecal pellets collected using a sediment trap in the western Arctic Ocean
13	Onodera, J., S. Nishino, Y. Kawaguchi	Fixed point observation of diatom flora and water mass condition in the northern Chukchi Sea in late summer 2013
14	Ooki, A., K. Kuma, S. Nishino, T. Kikuchi	Measurements of biogenic halocarbons in the Chukchi sea and Arctic Ocean basin in 2012.
15	Uchimiya M., C. Motegi, Y. Kawaguchi, J. Inoue, S. Nishino, T. Nagata	Atmospheric forcing resulted in enhanced heterotrophic prokaryote production in the water column of the Chukchi Sea, western Arctic Ocean in early fall
16	Yamaguchi, A., K. Matsuno, A. Fujiwara, J. Onodera, E. Watanabe, N. Harada, T. Kikuchi	Life cycle of dominant calanoid copepods in the western Arctic Ocean.
17	Saruwatari, K., M. Satoh, N. Harada, I. Suzuki, Y. Shiraiwa	Morphological responses of subarctic and Arctic Emiliania huxleyi coccoliths to the growth temperatures and salinity during culture
18	Satoh M., F. Itoh, K. Saruwatari, N. Harada, J. Onodera, M. Itoh, I. Suzuki, Y. Shiraiwa	Isolation and characterization to the growth temperature of coccolithophore, Emiliania huxleyi from the Arctic Sea
19	Kokubun, N, T. Yamamoto, D. Kikuchi, Y. Watanuki, A. Kitaysky, A. Takahashi	Foraging habitat use of thick-billed murres: why do they go farther from the colony?
20	Nakano, T., A. Yamazaki, H. Sasaki, J. Yamamoto, Y. Watanuki, Y. Sakurai	Changes in the abundance of macro-epibenthos and demersal fish collected by bottom-trawl in 1990's and 2010's in northern Bring and Chukchi Seas
21	Nishizawa, B., K. Matsuno, Y. Iwahara, E. Labunski, K. Kuletz, A. Yamaguchi, Y. Mitani, Y. Watanuki	Spatial distribution of krill and Short-tailed shearwaters in the Bering Sean and Arctic during summer
22	Otsuki, M., Y. Mitani*, D. Mizuguchi, K. Amakasu, S. Nishino, T. Kikuchi	The presence of fin whale vocalizations is correlated with zooplankton abundance in the southern Chukchi Sea.
23	Sasaki, H.*, K. Matuno, A. Yamaguchi	Habitat model for zooplankton
24	Yamamoto, T.*, K. Hoshina, B. Nishizawa, C.E. Meathrel, R.A. Phillips, Y. Watanuki	Movement of short-tailed shearwaters with environmental gradient in the sub-Arctic Pacific and Arctic seas through summer to autumn
25	Watanabe E	Relationship of primary productivity around the Chukchi Borderland with Beaufort Gyre Variation
26	Yoon S., M.J. Kishi, E. Watanabe	Estimating potential habitat for chum salmon (Oncorhynchus keta) in the Western Arctic using a bioenergetics model coupled with a three-dimensional lower trophic ecosystem model