

Sixth International Symposium on Arctic Research (ISAR-6)

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Second Circular

Call for Abstracts / Registration

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Arctic Research: The Decade Past and the Decade Future

- Understanding Arctic Change and Its Accelerating and Cascading Impacts.
- How the Arctic Research Has Contributed to Sustainable Development.

Date: March 2 - 6, 2020

Venue: Hitotsubashi Hall, Tokyo, Japan

S3: SAS session in ISAR-6 (on 3 March 2020)

Conveners:

Shigeto Nishino, Are Olsen, Øyvind Paasche, Michiyo Yamamoto-Kawai, Sung-Ho Kang, Jianfeng He, Carin Ashjian, Jacqueline Grebmeier, Kumiko Azetsu-Scott, William Williams

Synoptic Arctic *Survey*



In this session, we will discuss confirmed and developing cruise plans and cross-disciplinary scientific issues in preparation for the 2020/2021 SAS cruises. We encourage presentations that include the present understandings and/or expected results for the key parameters in the SAS regions, including the Pacific Arctic region (northern Bering, Chukchi, Beaufort seas, and Canada Basin) and high Arctic regions.

Session S3 Synoptic Arctic Survey – An Ocean Research Program for the Future

Session Program

	Presenter	Title
Orals 1: Overviews of national plans	1 Sten Åke-Wangberg	The Swedish contribution to SAS – a voyage to a little known sector of Central Arctic Ocean
	2 Jacqueline Grebmeier	Taking the Pulse of the Arctic Ocean System, from the Shelves to the Pole – A US Contribution to the International Synoptic Arctic Survey
	3 Shigeto Nishino	SAS-Mirai 2020 cruise in the western Arctic Ocean
	4 Hyoung Chul Shin	Synoptic Arctic Survey to better serve the cause of the Central Arctic Ocean Fisheries Agreement: Lessons from the Antarctic Ocean
	5 Michiyo Yamamoto-Kawai	Changes in freshwater content in the Canada Basin from 2003 to 2017 and its biogeochemical consequences
Orals 2: Scientific topics	1 Motoyo Itoh	Long term variability of Barrow Canyon fluxes and its impact on subsurface warming in the western Arctic Ocean
	2 Are Olsen	Arctic Anthropogenic Carbon
	3 Sakaya Yasanuka	Arctic Ocean CO ₂ uptake
	4 Valentina Sergeeva	Functional state of phytoplankton in the slope areas of the Russian Arctic seas
	5 Kohei Matsuno	Current state and predicting change on zooplankton community in the pacific sector of Arctic Ocean
Posters	1 Akhiko Murata	Spatial distributions of surface seawater CO ₂ and CH ₄ in the western Arctic Ocean in late autumn
	2 Agneta Fransson	Effects of storms and sea-ice biogeochemical processes on under-ice water fCO ₂ from winter to spring in the high Arctic Ocean: Implications for sea-air CO ₂ fluxes
	3 Tatiana Belevich	Picophytoplankton of the Arctic Bay, Archipelago Novaya Zemlya, the Kara Sea

Side Meeting Plan A

SAS side meeting at the Norwegian Embassy, Tokyo (on 2 March 2020)

15:00 – 18:00, March 2, 2020, Norwegian Embassy, Tokyo, Japan

15:00 Welcome Speech by the Norwegian Ambassador

15:10 Meeting Objectives and Overview of the SAS by Øyvind Paasche

15:20 Planned Transects (5-7 minutes each)

Norway by Øyvind Paasche

Sweden by Sten Åke-Wangberg

Russia by Valentina Sergeeva

USA (DBO 2020 and SAS 2021) by Jacqueline Grebmeier

Canada by Michiyo Yamamoto-Kawai

Japan by Shigeto Nishino

16:00 Measurement Protocols and Data Quality Controls

WHP by Akihiko Murata

16:15 Modeling for SAS

Modeling including Carbon Chemistry and Ecosystem by Eiji Watanabe

16:30 Data management

SAS quick data view and data site by ADS (Arctic Data archive System)

SAS side meeting at the Norwegian Embassy, Tokyo (on 2 March 2020)

15:00 – 18:00, March 2, 2020, Norwegian Embassy, Tokyo, Japan

16:45 Coffee break

17:00 Other International Efforts and Comments from Them (10-15 minutes each)

Beaufort Gyre Expedition Project by Andrey Proshutinsky

DBO or GEOTRACES by Jacqueline Grebmeier or others

FiSCAO by Kenji Taki

17:45 Discussion & wrap up

18:00 Closing

Side Meeting Plan B

SAS side meeting after the S3 (SAS) session (on 3 March 2020)

19:00 – 21:00, March 3, 2020, Hitotsubashi Hall, Tokyo, Japan

19:00 Meeting Objectives by Shigeto Nishino

**19:05 Measurement Protocols and Data Quality Controls
WHP by Akihiko Murata**

**19:20 Modeling for SAS
Modeling including Carbon Chemistry and Ecosystem by Eiji Watanabe**

**19:35 Data management
SAS quick data view and data site by ADS (Arctic Data archive System)**

**19:50 Other International Efforts and Comments from Them (10-15 minutes each)
Beaufort Gyre Expedition Project by Andrey Proshutinsky
DBO or GEOTRACES by Jacqueline Grebmeier or others
FiSCAO by Kenji Taki**

20:30 Discussion & wrap up

20:45 Closing