

PAG Collaboration- Chukchi Borderland/Canada Basin/ Shelf-Basin Exchange Field Efforts

Summary from Day 1

PAG Meeting
Helsinki, Finland
April 7, 2014

19 Sept- 15 Oct



CCGS AMUNDSEN

Canadian Research Icebreaker

Leg 2b (16d)



Beyond 2014..?

Canada

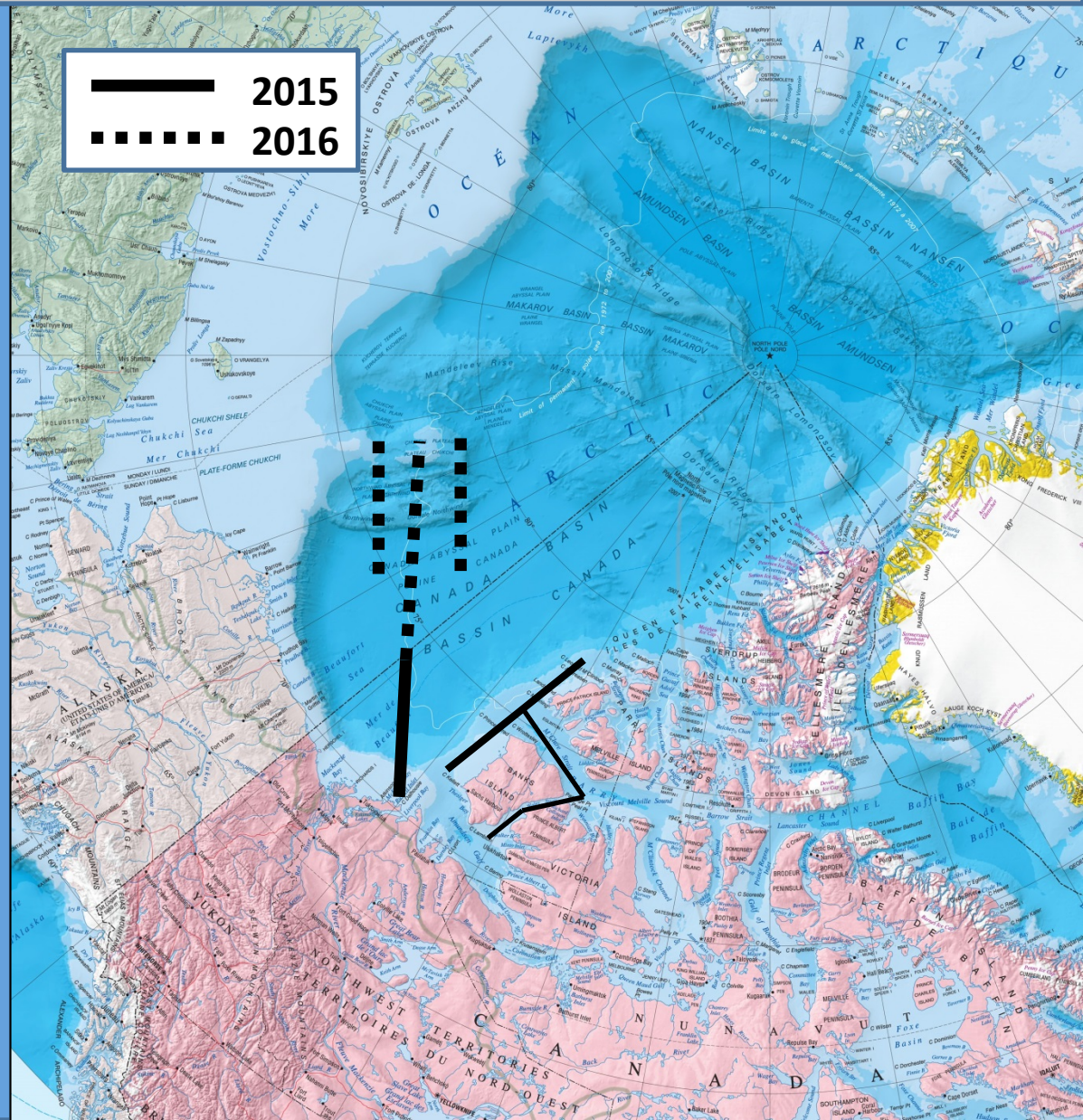
Proposed field studies

2015 (proposals to ESRF & SPERA):

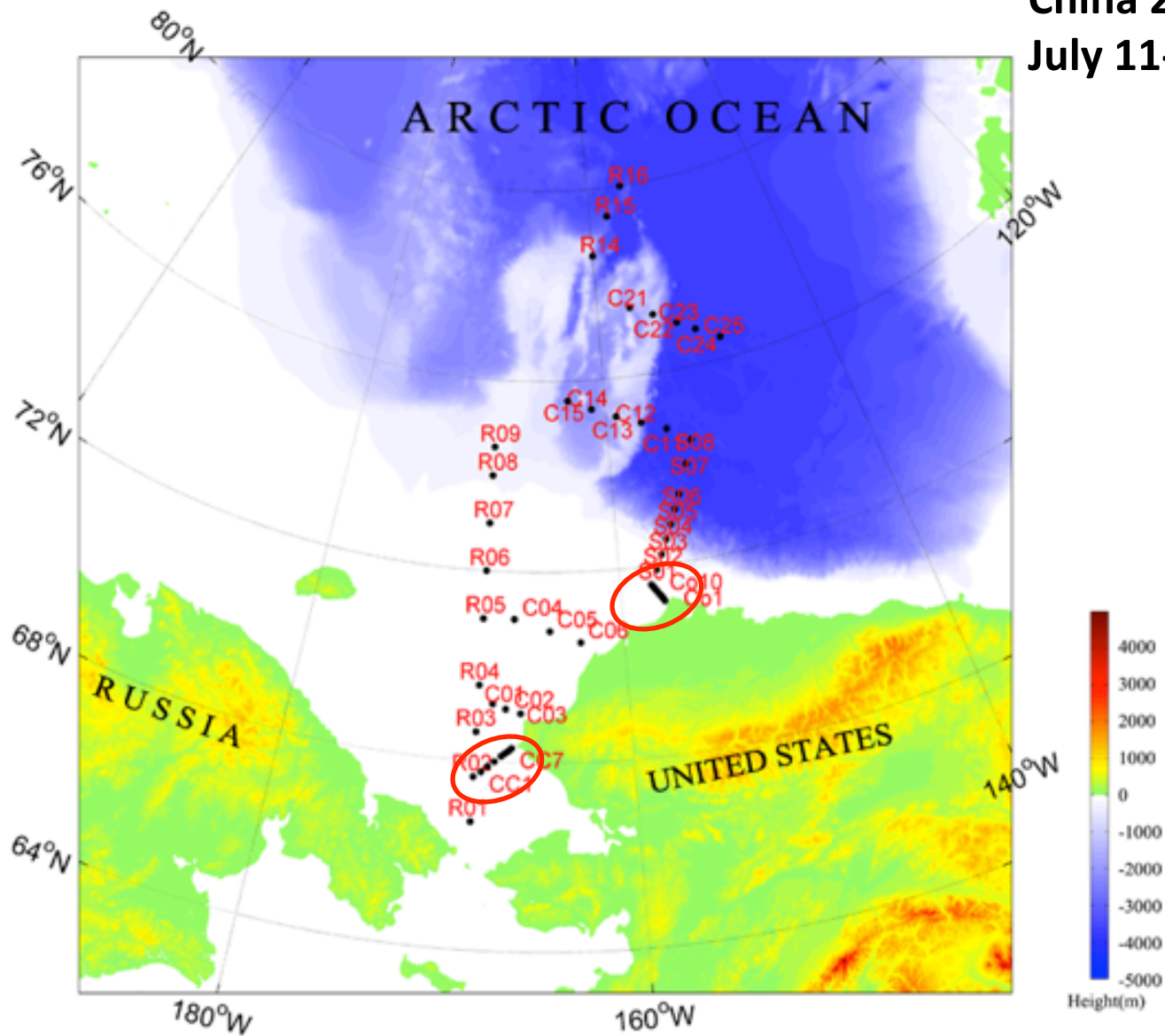
- Additional sampling in Canada Basin and/or areas of Canadian Archipelago
- Potential relevance to future O&G and emerging fisheries
- Ecosystem linkages with southern Beaufort Sea

2016 (proposals to ESRF, SPERA, DFO-IGS):

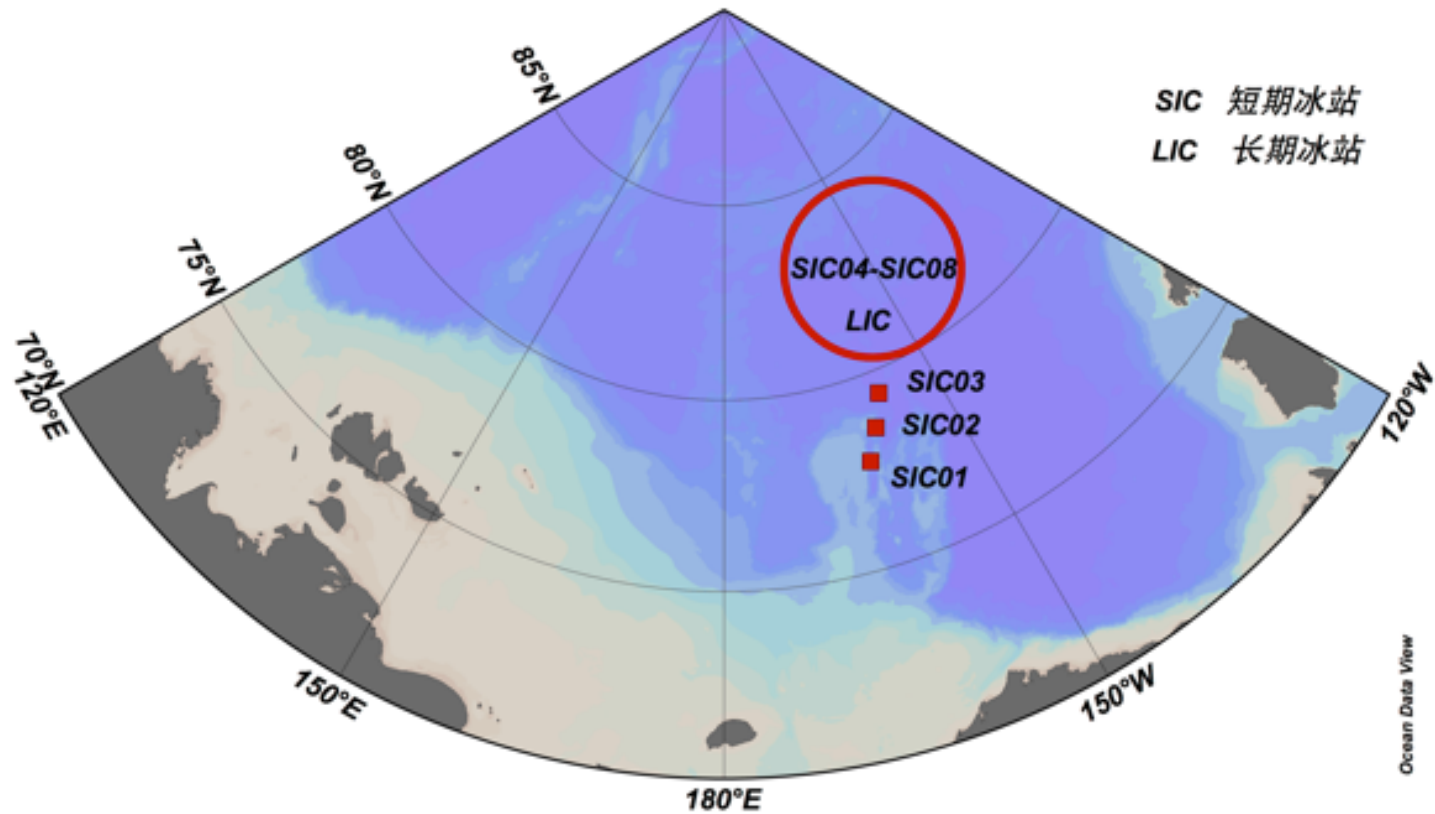
- Sampling within International High Seas
- Links to international governance
- Ecosystem linkages to CBS



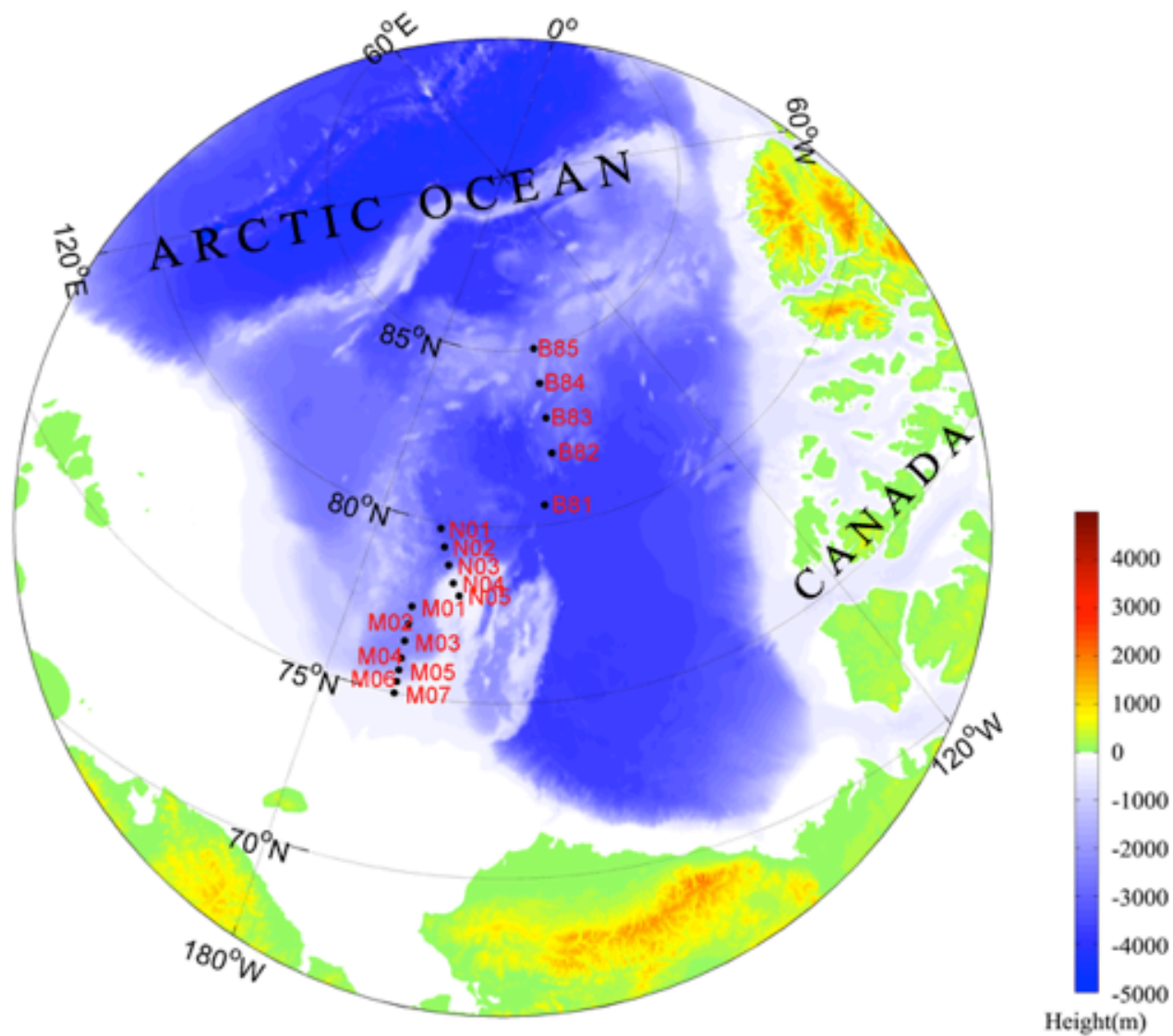
China 2014, Xuelong
July 11-Sept. 24



46 investigation stations

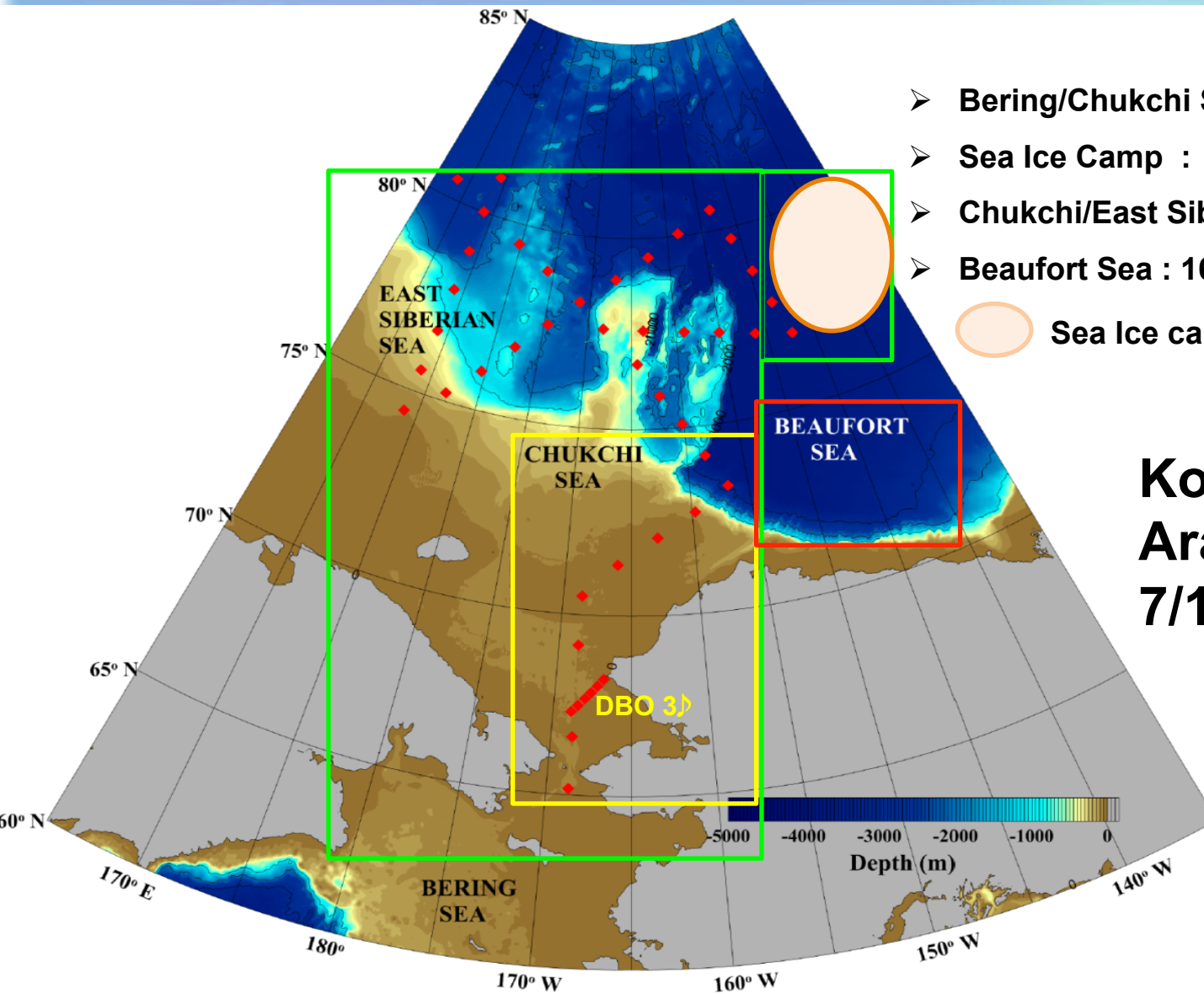


9 ice stations, in which one will last 10 days



17 flexible stations

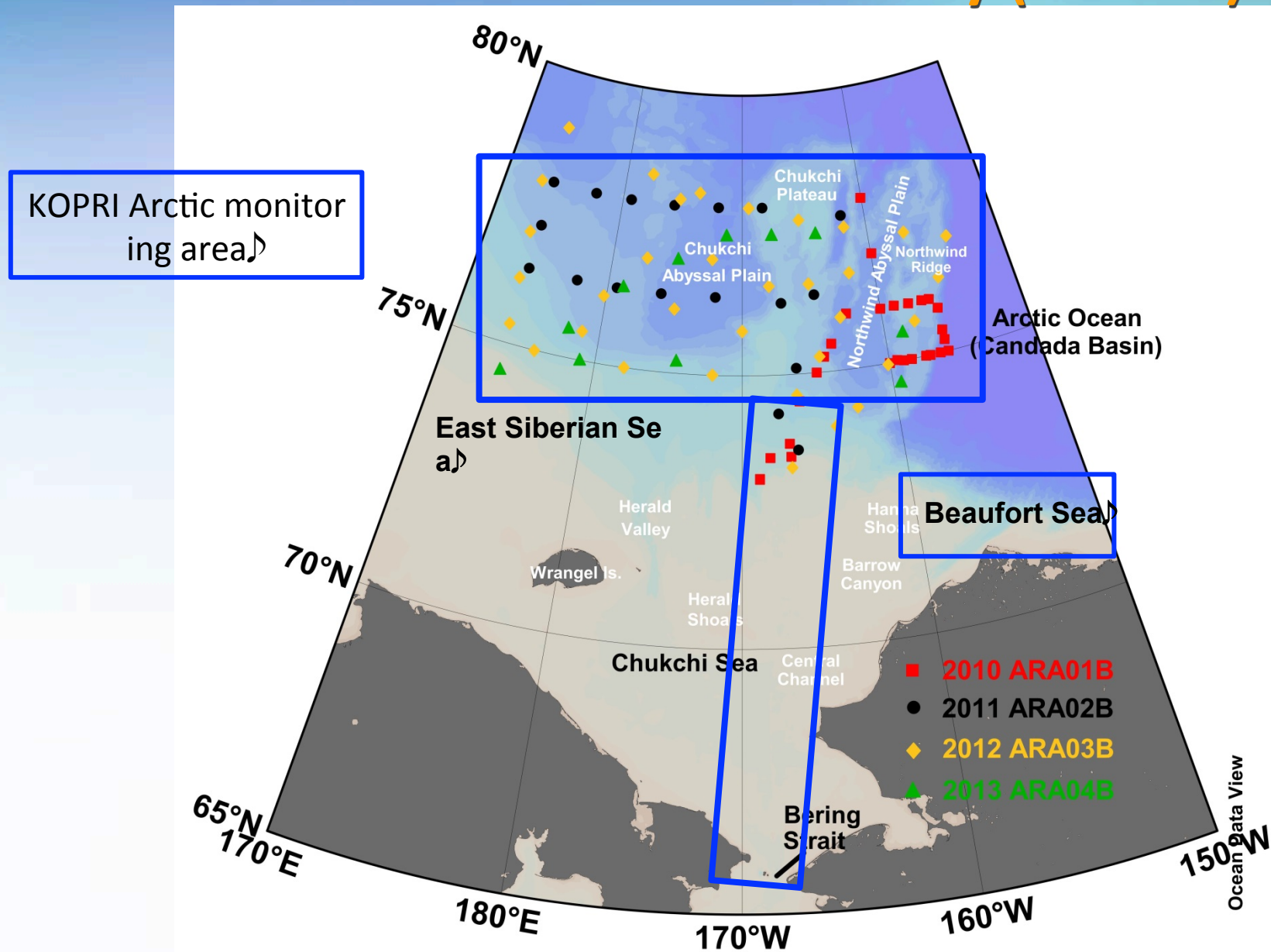
2014 Arctic Survey



- Bering/Chukchi Seas : 3 day
 - Sea Ice Camp : 7 days (KOPRI+ONR)
 - Chukchi/East Siberian Seas : 11 days
 - Beaufort Sea : 16 days
- Sea Ice camp station (with ONR-MIZ)

**Korea
Araon
7/16-10/13 2014**

Future KOPRI Arctic survey (2015 ~) ♪



Japanese observational plan in 2014

CCGS Louis S. St.- Laurant cruises (Sept.~ Oct. ???);

*Sea ice observation, hydrography & water sampling,
and mooring deployments*

IBRV Araon Arctic cruise (July ~ Sept.);

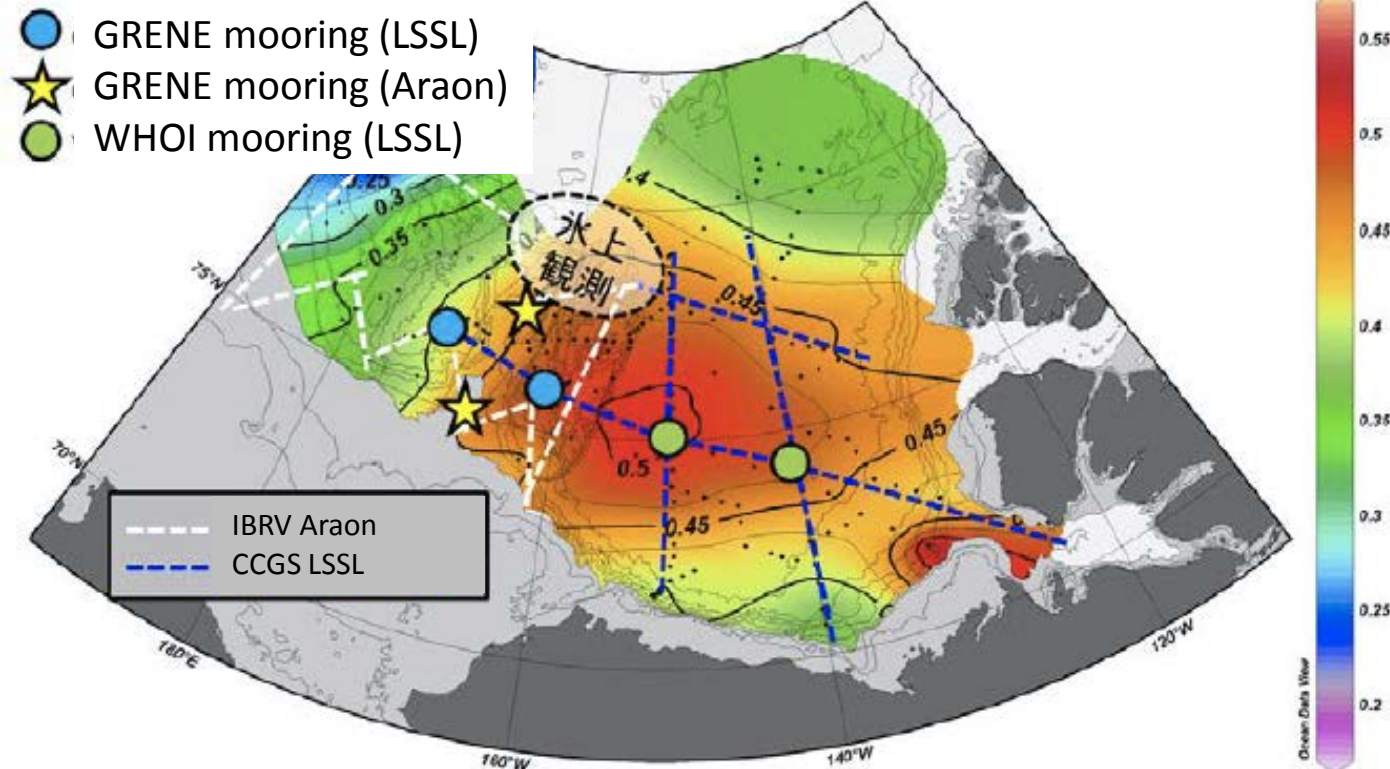
Hydrography and mooring recoveries & deployments



CCGS Louis St. S-Laurant
(From CCG web site)



RV ARAON
(From KOPRI web site)

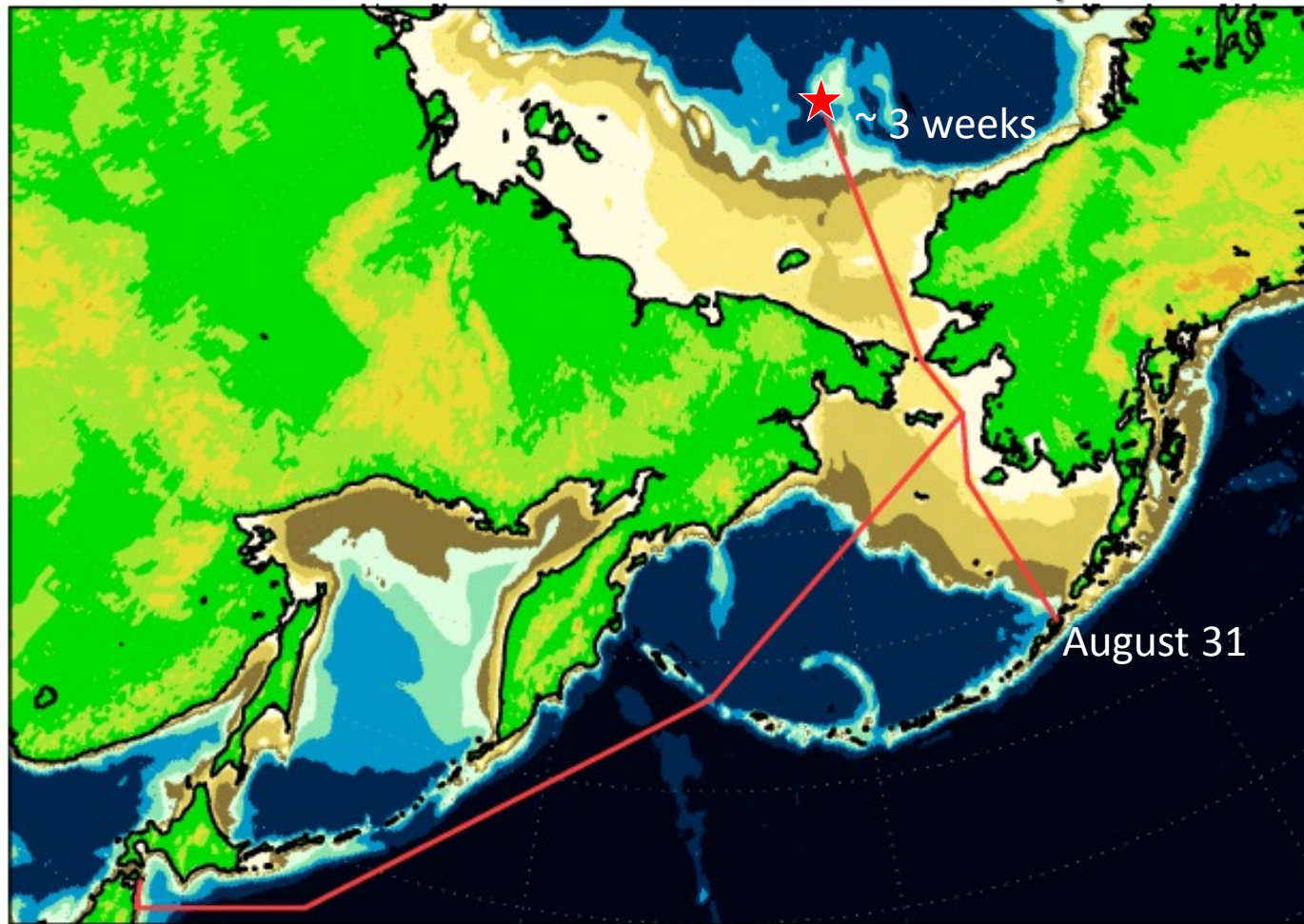


After “FY2014 plan of GRENE Arctic Climate Change Research Project” by Dr. Shimada

Japanese observational plan in 2014

R/V Mirai Arctic cruise in September-October 2014

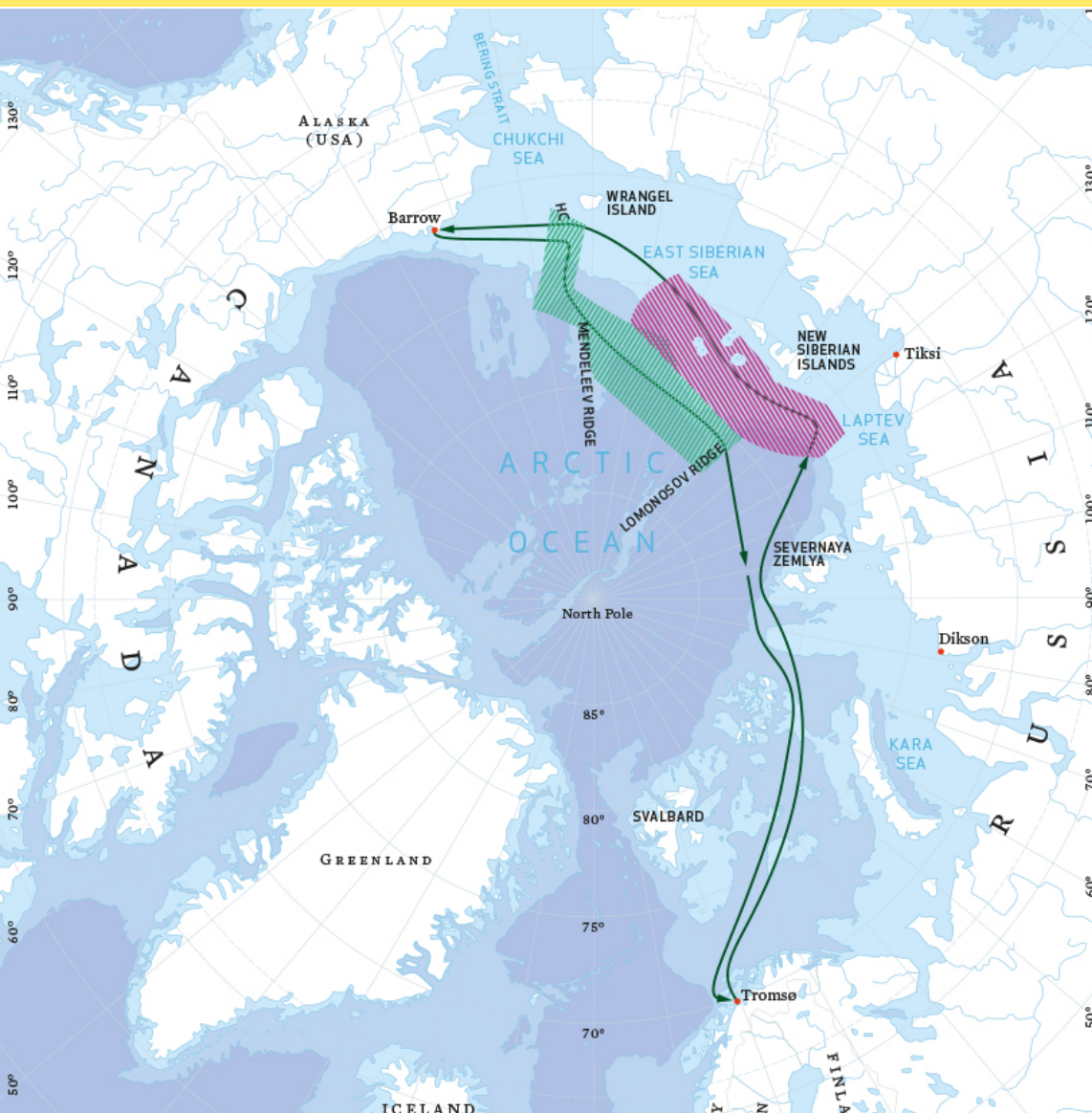
→ **Fixed point observation for 3 weeks**



October 10



Courtesy from Dr. Inoue (NIPR/JAMSTEC)



SWERUS-C3

- A Swedish/Russian/American research expedition
- Icebreaker Oden

Expedition route

- » **6 July 2014:** Departure from Tromsø, Norway
- » **20 August 2014:** Change-over of researchers and crew in Barrow, Alaska
- » **4 October 2014:** Return to Tromsø, Norway

Combined Track lines

Considerations for 2014-2019 sampling



2 U.S. Russian DBO lines



12 Repeat hydrographic lines



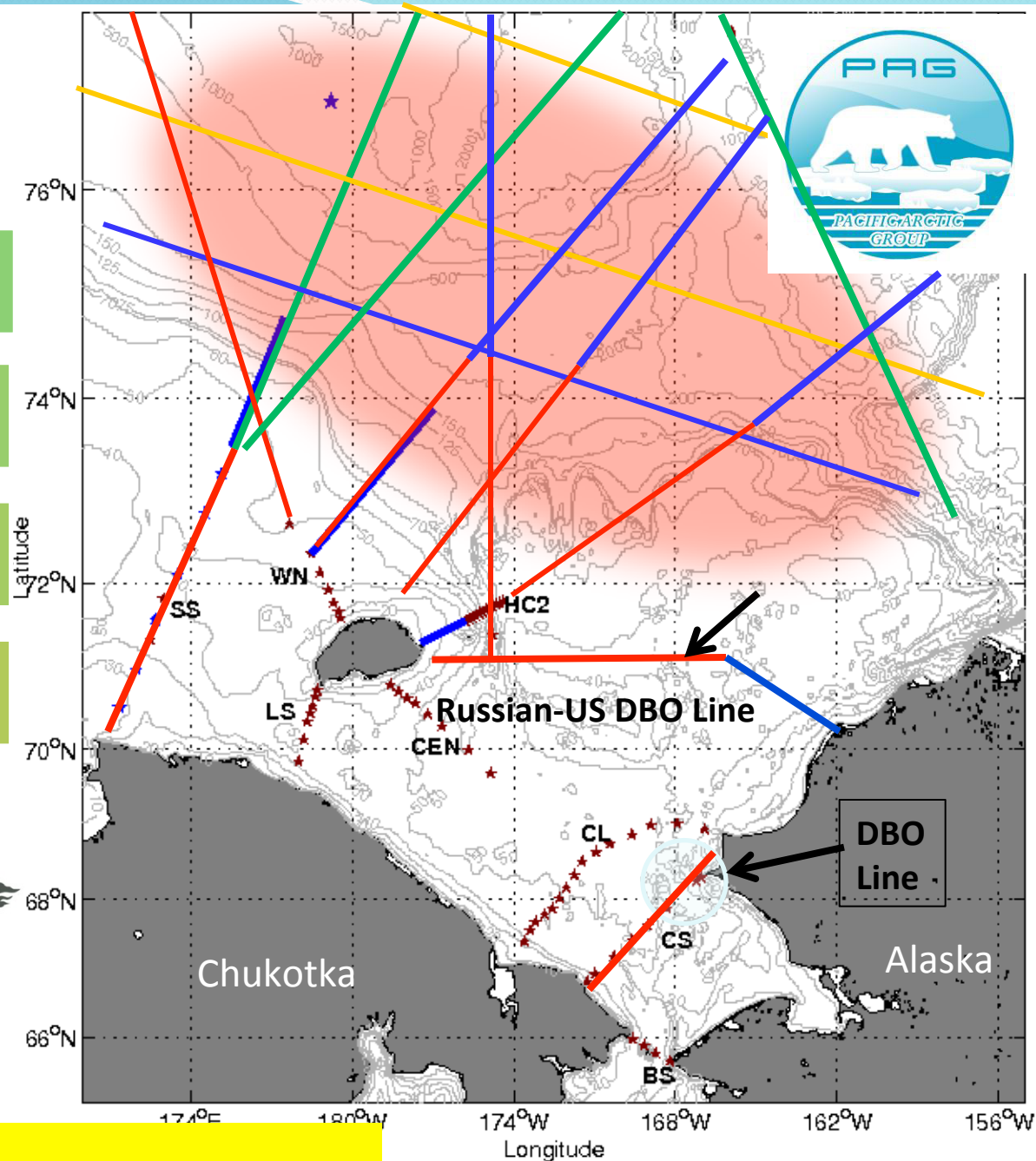
Ecosystem and Methane



RUSALCA + Korea, China,
Japan, Canada, Germany,
Sweden?

PAG +
Others

USA



PAG 2015-2020 synoptic surveys: USA slide