Pacific Arctic Group (PAG)-Climate Line Workshop

April 21-22, 2015

Venue: Tokyo University of Marine Science and Technology (TUMSAT, Shinagawa Campus)

Tues. April 21, 2015	**Wed. April 22, 2015**
1300 - transport hotel to TUMSAT	0730 and 0800 transport hotel to TUMSAT
1330 - 1540 Afternoon 1	0830 - 0930 Morning 1
1540 - 1625 Coffee break & Poster session	0930 - 1100 Morning 2
1625 - 1740 Afternoon 2	1100 End of meeting; transport to Toyama
1800 ~ Dinner (no-host dinner)	

Overview: The nations of the Pacific Arctic Group are proposing to carry out a series of repeat observations in the Arctic Ocean, north of the Chukchi Sea extending from the Makarov Basin in the West to the Canada Basin in the East. This region has undergone the most extreme loss of sea ice extent and thickness within the Arctic Ocean and yet is very poorly observed. We propose to study the evolution, structure, variability, and heat transport of Atlantic Water in this region and its interaction with northward flowing warm Pacific Water from the Chukchi Sea, which accelerates the positive ice/ocean albedo feedback cycle, leading to rapid loss of summer sea ice. We also propose to carry out a census of the ecosystem in this region which is likely in rapid transition due to the extreme physical changes. Repeat observational transects and time-series records from moorings will be planned to reveal year-round the interplay between the amount of heat that is being lost into the atmosphere from this part of the Pacific Arctic Ocean, the enhanced mixing of both surface and intermediate waters in response to increased storms, increased ocean absorption of solar radiation and the consequent impacts on the changing weather and climate of the Northern Hemisphere. The observing period will also incorporate atmospheric observations to support the WMO's Year of Polar Prediction (YOPP). We propose to coordinate this work with the vessels of our respective countries from 2015-2020, which will provide a unique suite of synoptically collected data made available for joint analysis, assessment, and modeling/data assimilation via the mechanisms already set up within the Pacific Arctic Group. www.pag.arcticportal.org

The Pacific Climate Line section would be important in identifying the ocean circulation that is affecting the receding ice in the Arctic (i.e. center of action on sea ice reduction). The recent increase in scientific studies have improved our understanding of this region; however, there is a gap in the northeastern Siberian region where a link between international projects would be extremely useful for understanding overall system change. The workshop will focus on the joint activities in relation to developing an international "Pacific Climate Line" north of the Chukchi Sea extending from the Makarov Basin in the West to the Canada Basin in the East.

2015 PAG Climate Line Workshop: 21-22 April 13:30 start time at TUMSAT (see schedule above)

Day 1 (21 April 2015)

Introduction and Welcome (Sung-Ho Kang)

- Brief introduction of PAG Climate Line and meeting agenda (Sung-Ho Kang, Chair)

13:40-14:20 Major institutions (10 min each)

- Kathy Crane (NOAA)
- Joo-Hong Kim (KOPRI)
- Takashi Kikuchi (JAMSTEC)
- Jianfeng He (PRIC) or Jinping Zhao (OUC)
- Bill Williams (DFO)

14:20-15:40 Physical oceanography and sea ice dynamics (15 min each)

[Chair: Koji Shimada]

- Hajime Yamaguchi (Univ. Tokyo)
- Vladimir Ivanov (AARI)
- Kyoung Ho Cho (KOPRI)
- Jinping Zhao (Ocean Univ. China)
- Bill Williams (DFO)

15:40-16:30 Coffee break & Poster session

16:30-17:50 Biogeochemical Oceanography and Ecosystem (15 min each)

[Chair: Kathy Crane]

- Eun Jin Yang/Jing Young Jung (KOPRI)
- Naomi Harada (JAMSTEC)
- Carin Ashjian (WHOI)
- Lee Cooper (UMCES)
- Jacqueline Grebmeier (UMCES)

18:00~ Dinner

Day 2 (22 April 2015)

8:30-9:30 Atmosphere and sea ice (15 min each)

[Chair: Joo-Hong Kim]

- Jun Inoue (NIPR) April 22 only
- Taneil Uttal (NOAA)
- Joo-Hong Kim (KOPRI)

9:30-11:00 Discussions

11:00 End of workshop; move to Toyama

Venue: Tokyo University of Marine Science and Technology (TUMSAT, Shinagawa Campus)

http://www.kaiyodai.ac.jp/english-c/en-about/12280.html

Nearest station is “Shinagawa Station (JR line or Keikyu line)” , 10 min to venue (TUMSAT)

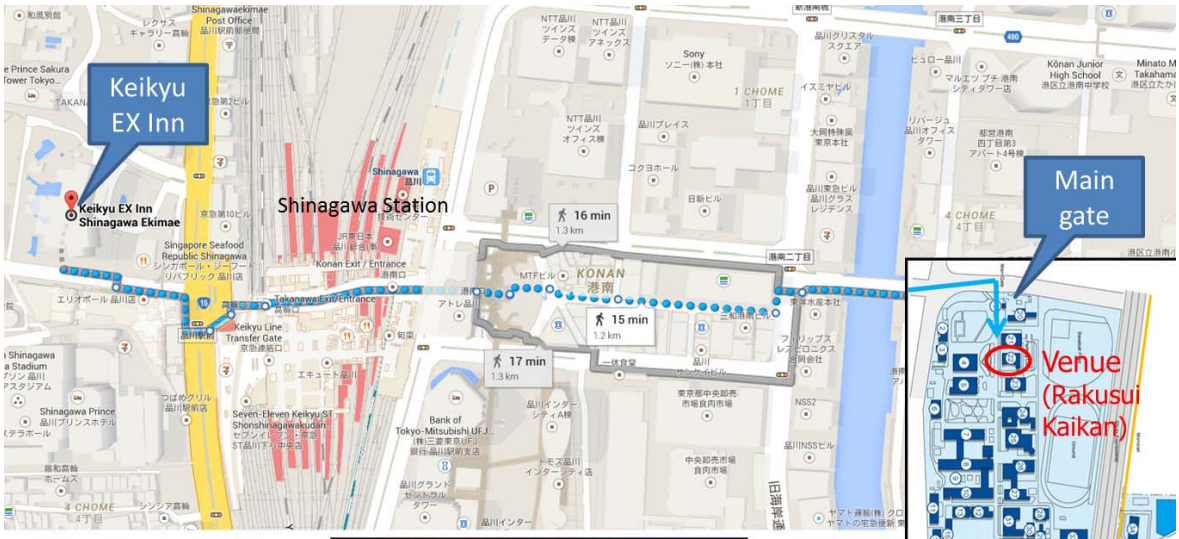
(1) From Tokyo Narita Airport to Shinagawa Station

It takes about 1 hour by “Narita Express train (JR line)” ,and about 1.5 hours by local JR train.

(2) From Tokyo Haneda airport to Shinagawa Station

It takes about 10 minutes by “Keikyu line”.

Venue map



Tokyo University of Marine and Tech

Transportation to Toyama from Tokyo by two ways.

1. Super Train (From Tokyo to Toyama)

- Tokyo station is just 10 min by local train from Shinagawa. From Tokyo station to Toyama station is about 2-3hours by new super express.

- Please see the time table of new super express train between Tokyo and Toyama stations. Trains leaving from Tokyo at 13:56, 14:56, 15:52, 16:24 are most likely ones.

2. Airplane (From Hadeda airport to Toyama airport)

There are flights (15:15, 18:15, 19:50) from Tokyo Haneda Airport to Toyama Airport. It takes just 1 hour.