The Pacific Arctic Group (PAG)

http://pag.arcticportal.org/

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Forum of Arctic Research Operators April 15, 2013 Arctic Science Summit Week Krakow, Poland

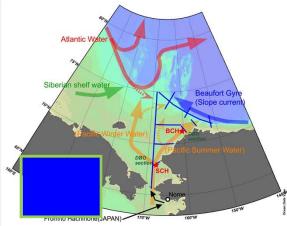


Examples of current PAG activities

- Annual field activities in the Pacific Arctic region (updates 2012 and plans for 2013 at ASSW PAG meeting; available PAG)
- Undertake a Pacific Arctic regional, multidisciplinary synthesis of scientific findings in the marine region relevant to ongoing scientific objectives at the core of the PAG
- Development of a Distributed Biological Observatory (DBO) of environmental and biological sampling at stations on transect lines located along a latitudinal gradient extending from the northern Bering Sea to the Barrow Arch
- Project development and sampling in the Chukchi Borderland and Canada Basin region to investigate climate, oceanographic, air-sea ice interactions, physical oceanography, and modeling

Some 2012 PAG research cruises in Pacific Arctic Region

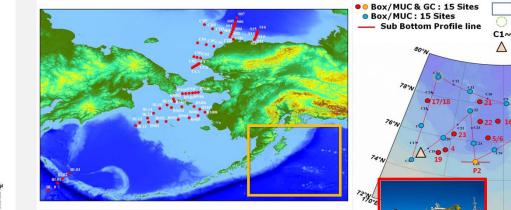
Japan: RV Mirai



China: RV Xuelong

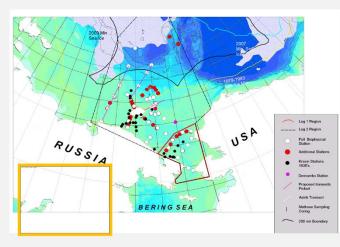
Korea: IBRV Araon

Seismic survey area(mapping)

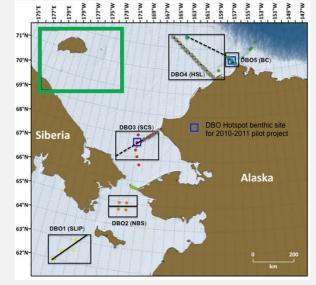


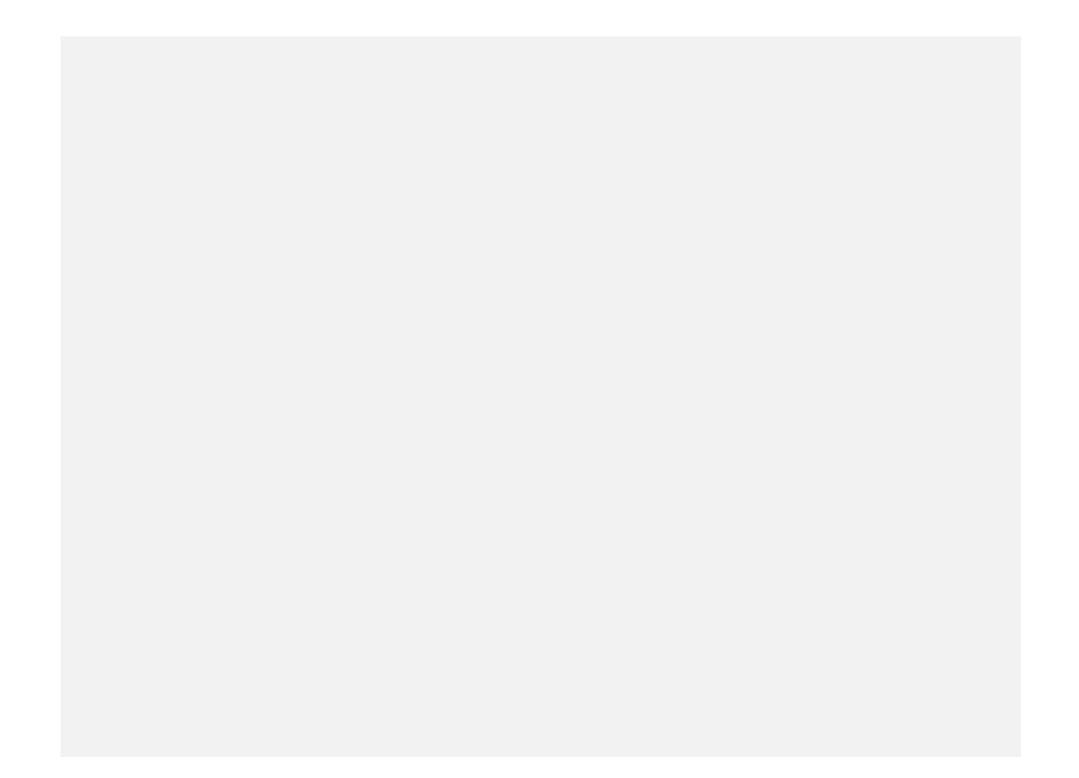
Sub Bottom Profile line Sub Bottom Profile line Sub Bottom Profile line C1~C30: CTD station Mooring station C1~C30: CTD station C

Russia-USA: RV Khromov



Canada-USA: CCGS Sir Wilfrid Laurier (DBO 1-3, 5 and RV Westward Wind DBO4)







The Pacific Arctic Group (PAG): A Pacific perspective on Arctic science

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Overview

The Pacific Arctic Group (PAG) is a group of institutes and individuals having a Pacific perspective on Arctic science. Organized originally under the International Arctic Science Committee (IASC), the PAG has as its mission to serve as a Pacific Arctic regional partnership to plan, coordinate, and collaborate on science activities of mutual interest. The four PAG principle science themes are climate, contaminants, human dimensions and structure and function of Arctic ecosystems.

The PAG membership is led by an Executive Committee consisting of a Chair, two Vice-Chairs, and the Project Coordinator. The general membership of the PAG may form project groups to address specific issues inked to the PAG objectives. The Project Coordinator is responsible for coordinating the efforts of the project groups and represents the project groups on the Executive Committee. The general membership consists of at least one member of each country or institution with interest in the PAG zone of interest.

The Executive Committee, Project Coordinator and project groups are supported by a small Secretariat which is located on a rotating basis between member countries. The Secretariat provides administrative support for the functioning of the PAG, provides technical science support, organizes PAG meetings, records decisions of the PAG, It also undertakes a professional communications function for the PAG, providing a central point for communications to and from the PAG, and undertakes other matters as required.

Field Activities

The PAG membership undertakes both national and international science projects in the Pacific Arctic (Figure 1). Research on many national ships, including the Canadian CGS Sir Wilfind Laurier, Chinese RV Xuelong, Japanese RV Mirai, Korean IBRV Araon, Russian RV Khromov, and USCGC Healy, along with other national and industry vessels sampling in the Pacific sector. Table 1 provides a summary of the PAG network of ship activities in 2012:

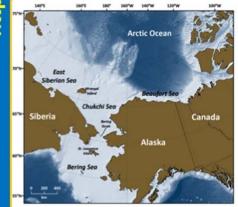


Fig. 1. PAG defines the "Pacific sector" of the Arctic as the marine area from the Northern Bering Sea no the Chukchi Sea and adjacent Seas, and estending into the deep basins of the Arctic Cesan, with nodel boundaries from Alexian Island and deep Bering Sea northward to Arctic Basin.

ea: IBRV Araon	Vessel	Country	P1	10
THEFT	Lawier (July) Khomov-Leg f (July)	Carata Rassia and USA	Vagle Woodgate	AVE
Canada-UEA: CCOB Sir	Arzon	Korea	Kanp	
	Heatly (Aug)	USA	Grebereier	
	Xuelong (Aug- Sept)	China	244	Russia-USA: RV Khr
BO 1-3, 5); Vestward USCGC	Kiroreov-Leg 2 (Aug-Sept)	Rassia and USA	Crane Whitledge	
Marie and DBOS), RV O 3 and 5)	Fairweather (July-Aug) CESF (Aug/Sept)	USA USA USA	NOAA Napp	-
43 5	Westward Wind	USA	Day	China: RV Xuelo
	Annika Marle Gesti	USA	Ashjan	2
And a second sec	Most (Sept-Oct)	Japan	Käsachi	
Summer of	Healy (Dct)	USA	Pickart	No of

Examples of current PAG activities include: 1) undertaking a Pacific Arctic region multidisciplinary synthesis of scientific findings in the marine region relevant to ongoing scientific objectives at the core of the PAG, 2) development of a Distributed Biological Observatory (DBO) consisting of environmental and biological sampling at stations on transect lines located along a latitudinal gradient extending from the northern Bering Sea to the Barrow Arch, and 3) sampling in the Chukchi Borderland and western Canada Basin region to investigate climate, oceanographic and sea ice interactions in a developing time series format. All aspects of PAG are undertaken via international and national collaborations and project coordination.

Synthesis Activities

PAG has also undertaken synthesis activities in order to present results from research, observation and modeling activities within the PAG area, to share information on current modeling activities, to identify status trends, and major new findings and understanding of state and processes in the PAG region.

Some examples of PAG synthesis activities include:

- Jan. 2008: PAR Modeling Workshop #1, Sanya, China; special issue of Chinese Journal of Polar Science, Vol. 9, 2008; 13 papers
- May 2009: PAR Biology Workshop #2, Seattle, WA, USA; Feature article in EOS (May 2010); chapters for book in progress
- June 2009: PAR Marine Carbon Cycling Workshop #3, Xiamen, China; Special issue Deep Sea-Research, Lead editor: Wei-Jun Cai
- Feb. 2010: AGU/ALSO/TOS Ocean Sciences Meeting, Portland, Oregon, USA
- June 2010: OSLO IPY Conference, Oslo, Norway; Special PAG Session
 March and November 2011: PAG Distributed Biological Observatory workshops in Seoul, Korea and Sydney, BC, Canada
- February 2012 Open PAG DBO workshop, ASLO, USA
- >December 2012: Completion of Springer PAG synthesis book titled "The Pacific Arctic Region: Ecosystem Status and Trends in a Rapidly Changing Environment"

Future Activities

PAG members are working together to further develop the DBO, initiate a an ocean and ice observing system in the Arctic Basin, and investigate shelf/slope physical oceanographic processes in the Pacific sector. Further synthesis activities, as needed, will be undertaken as well as development of a data sharing policy for joint studies in the Pacific Arctic region.

Affiliations and Acknowledgements

We thank the national membership of the PAG and their associated institutions for continued collaborative efforts. Support for the PAG secretariat is currently via the US NOAA Arctic Program Office, PAG is an affiliated effort in association with the IASC Marine Working Group.

Recent PAG presentations

- Oral presentation for
 PICES Monitoring
 Group and Poster
 presentation at fall
 PICES meeting in
 Yokohama, Japan
 (Jackie Grebmeier
 and Takashi Kikuchi)
- PAG oral presentation by Takashi Kikuchi at ISAR3 in Tokyo, Japan

All the ppts and documents associated with the April PAG meeting will be psoted om the PAG website: http://pag.arcticportal.org/, under "documents".

Thank you for your attention.



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7aos call for white papers unsolicitedv4 [Nov 13 2012]	Pacific Arctic Group (PAG) Spring Meeting Sunday, April 14, 2013 during Arctic Science Summit Week (ASSW 2013) in Krakow, Poland. Link t <u>More</u>	now b	
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