

Pacific Arctic Group (PAG):

Perspective of ICARP III



Integrating Arctic Research *a Roadmap for the Future*

3rd International Conference on Arctic Research Planning
(ICARP III)

ICARP III

provides a framework to help:

- ⊙ **identify** Arctic science **priorities** for the next decade;
- ⊙ **coordinate** various Arctic research agendas;
- ⊙ **inform** policy makers, people who live in or near the Arctic and the global community;
- ⊙ **build constructive relationships** between producers and users of knowledge.

Considering

- the outcome of **ICARP II** and



- the **International Polar Year**



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Polar research: Six priorities for Antarctic science

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The aurora australis over the German Antarctic research base, Neumayer-Station III.

Six priorities for Antarctic science

- **SIX SCIENTIFIC PRIORITIES**
- **Define the global reach of the Antarctic atmosphere and Southern Ocean.**
- **Understand how, where and why ice sheets lose mass.**
- **Reveal Antarctica's history.**
- **Learn how Antarctic life evolved and survived.**
- **Observe space and the Universe.**
- **Recognize and mitigate human influences.**

ICARP III is

a process for:

- ① **integrating priorities** for forward-looking, collaborative, interdisciplinary Arctic research and observing;
- ② **establishing an inventory** of recent and current synthesis documents and major developments in Arctic research.

ICARP III does not

- ⊙ undertake the development of **new science plans**

Rather:

- ⊙ ICARP III **builds** on the many comprehensive **science plans** that exist already;
- ⊙ and **compliments** existing activities with processes to identify and fill gaps that may need attention.

Engaging

all partners, including funders, in shaping the future of Arctic research needs, ICARP III will:

- ① produce a **consensus statement** identifying the most important Arctic research needs for the next decade;
- ① provide a **roadmap** for research priorities and partnerships;
- ① identify potential contributions of Arctic research partners to the **International Polar Partnership Initiative**.

current **ICARP III partners**



The program

includes a series of meetings and events during 2014/15:

- starting with a **formal launch** at the **Arctic Science Summit Week (ASSW) 2014** in Helsinki, Finland and
- culminating in a **final conference** during **ASSW 2015** in Toyama, Japan.



PAG activities and topics in high priority to highlight in the ICARPIII planning process include:

- **Data sharing and publications** from international results of the DBO activities and continued development for full implementation of the DBO sites and identification of new sites in the East Siberian Sea, Beaufort Sea and Canada Basin-fall 2014 2nd DBO Data workshop
- Highlight studies in the western Chukchi/Canada Basin of physical oceanographic research programs, including **continued development of a Chukchi Borderland/Arctic Basin Environmental Observing system**
- **Development of a coordinated sea ice/atmospheric sampling effort within the PAG**
- **Physical and ecosystem modeling of oceanographic and atmospheric data collected in the Pacific sector**
- Highlights of the **PAG synthesis activities** (e.g., the Pacific Arctic region Springer synthesis volume, Deep-Sea Research II special issues from CHINARE, ARAON cruises, other publications and products)

How can PAG participate in ICARP III?

- PAG works with **a pan-Arctic perspective** to promote synergies across the Arctic Ocean.
- PAG recognizes **the value of the ICARP III as a means to identify and prioritize overarching Arctic science issues**, and to improve international coordination of research agendas.
- PAG's ICARP III contribution as **data sharing and publications** from results of the Distributed Biological Observatory (DBO) and continued development and implementation of the project.
- PAG can **provide a valuable dataset for ongoing research and development of cooperative synthesis in the Pacific and Atlantic marine sector**.
- European research activity can **complement PAG studies with its research in the Atlantic side of the Arctic**. The PAG studies could also be integrated with programs such as MOSAiC etc.