

AICC Chair Report

Bob Campbell

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AICC Meeting

Nov. 9 & 10, 2016

U.S. Coast Guard Base

Seattle, WA

AICC Current Membership

[Aguilar-Islas, Ana](#) UAF 10/15 to 10/18

[Campbell, Robert \(Chair, AICC\)](#) URI 01/16 to 01/19

[Hartz, Steve | \(RVTEC Rep, ex-officio\)](#) UAF 05/07

[Laney, Sam](#) WHOI 10/15 to 10/18

[Lomas, Michael](#) Bigelow Laboratory 08/14 to 08/17

[Persson, Ola](#) CU-Boulder 10/15 to 10/18

[Polashenski, Christopher](#) USACE-CRREL 08/14 to 08/17

[Ruppel, Carolyn](#) USGS 10/15 to 10/18

[Russell, Doug | \(Chair, RVOC\) | \(RVOC Rep, ex-officio, AICC\)](#) UW 09/13 to 09/16

[Welker, Jeff](#) UAA 10/15 to 10/18

New Heavy Icebreaker

- * Coast Guard accelerates procurement process for new, heavy icebreaker
 - * Request from White House to move forward
 - * Planning for 2 new icebreakers
 - * Request made to AICC
 - * If new icebreaker equipped for science will it be used?
 - * What science capabilities are needed?
 - * Provided list of reports from the National Academies and UNOLS describing mission requirements and needed science capabilities

Reports

UNOLS Report:

A New U.S. Polar Research Vessel (PRV): Science Drivers and Vessel Requirement (2012)

Final report of the UNOLS PRV SMR Refresh Committee

National Academies Reports/Studies:

Icebreaker needs

Polar Icebreaker Roles and U.S. Future Needs: A Preliminary Assessment (2005)

Committee on the Assessment of U.S. Coast Guard Polar Icebreaker Roles and Future Needs, National Research Council

Polar Icebreakers in a Changing World: An Assessment of U.S. Needs (2007)

Committee on the Assessment of U.S. Coast Guard Polar Icebreaker Roles and Future Needs, National Research Council

Science at Sea: Meeting Future Oceanographic Goals with a Robust Academic Research Fleet (2009)

Committee on Evolution of the National Oceanographic Research Fleet;
National Research Council

Polar Research Missions

The Arctic in the Anthropocene: Emerging Research Questions (2014)

Committee on Emerging Research Questions in the Arctic; Polar Research Board;
Division on Earth and Life Studies; National Research Council

A Strategic Vision for NSF Investments in Antarctic and Southern Ocean Research (2015)

Committee on the Development of a Strategic Vision for the U.S.
Antarctic Program; Polar Research Board; Division on Earth and Life
Studies; National Academies of Sciences, Engineering, and Medicine

Arctic Matters: The Global Connection to Changes in the Arctic (2015)

National Research Council of the National Academies

Polar Research Vessel Update

POLAR ICEBREAKERS

New POLAR ICEBREAKERS (PIB):

- * The Coast Guard held an "industry day" in March that presented the basic operational requirements of the new PIB(s) to the US shipbuilding industry. (public version of that document is provided).
- * Note that there are some substantial scientific capabilities included in the requirements document that NSF/PLR does not support.
- * Congress has made clear their intention that agency-specific requirements in the new PIBs need to be funded by the requesting agencies. NSF's current and projected budget is not able to support these additional capabilities and feels that science operations should be conducted by research vessels.
- * On an as-needed basis, a research vessel can be paired with a heavy icebreaker to operate in heavier ice conditions. The science capabilities included in the requirements document were, in large part, placed there by NOAA.

Polar Star Science Capabilities



- * Science capabilities not currently being maintained
- * No money to maintain, remove or recapitalize science gear
- * Only current mission – McMurdo resupply

USCGC Healy 2016 Schedule



- * 02 Jul/10 Aug, Seward/Seward, NOAA/Hopcroft, HLY1601
- * 16 Aug/17 Sep, Seward/Nome, Navy/Worcester, HLY1602
- * 19 Sep/06 Oct, Nome/Dutch Harbor, NOAA/Mayer, HLY1603

R/V Sikuliaq 2016 Schedule



- * 28 Aug/8 Oct, NSF/Juranek/Sipler
- * 14 Oct/5 Nov, ONR/Badley

Foreign Vessels



- * Canada, CCGS Sir Wilfrid Laurier, July 10-22
- * Canada, CCGS Louis St. Laurent, Sept. 15 – Oct. 15
- * South Korea, RV Araon, August
- * Russia, (RUSALCA), RV Victor Buynitskiy, Sept. 10-30
- * Japan, RV Mirai, Sept.
- * China, Xuelong, Aug-Sept



Reducing Conflicts Between Research and Subsistence Activities

- * Arctic Waterways Safety Committee (AWSC)
 - * Co-management orgs., industry, and other groups
 - * Bring users together to define best practices to ensure a safe and predictable operating environment
 - * Standard of Care Document for Research Cruise Operations
- * University of Alaska Fairbanks (UAF)
 - * Community and Environmental Compliance Standard Operating Procedures (CECSOP) for R/V Sikuliaq research operations

Community and Subsistence Activity Locations

