

Arctic Icebreaker Coordinating Committee (AICC) Report

Bob Campbell

Graduate School of Oceanography
University of Rhode Island

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 08/20

Persson, Ola CU-Boulder 10/15 to 10/18

Polashenski, Christopher USACE-CRREL 08/14 to 08/20

Ruppel, Carolyn USGS 10/15 to 10/18

Russell, Doug | (RVOC Rep, ex-officio, AICC) UW 09/13

Welker, Jeff UAA 10/15 to 10/18

Meetings 2018

- * AICC Winter Meeting, Jan 10 and 11, 2018, US Coast Guard Facility, Seattle, WA
- * AICC Summer Meeting, June 13, 2018 via WebEx Teleconference

Winter Meeting

- * Agency Reports
- * Healy and Sikuliaq Updates
- * Eastern Arctic Healy Deployments
- * Special Reports
 - * NPRB Arctic Program (5 yr, \$18.5 M)
 - * Alaska Eskimo Whaling Commission
- * Healy Debriefs
 - * Medical Forms
- * Assessment of Conflict Avoidance Agreements

Summer Meeting

- * NSF and CG Headquarters Reports
- * PRV Acquisition Status
- * Update on Healy Preparations for 2018
- * Research Cruise Matrix
- * Changes in Healy Mob/Demob Policies

New Heavy Polar Icebreaker (PIB)

- * Minimal Science Requirements
 - * AICC less involved
- * In Obtain Phase
- * Released RFP
- * Source Selection to Follow

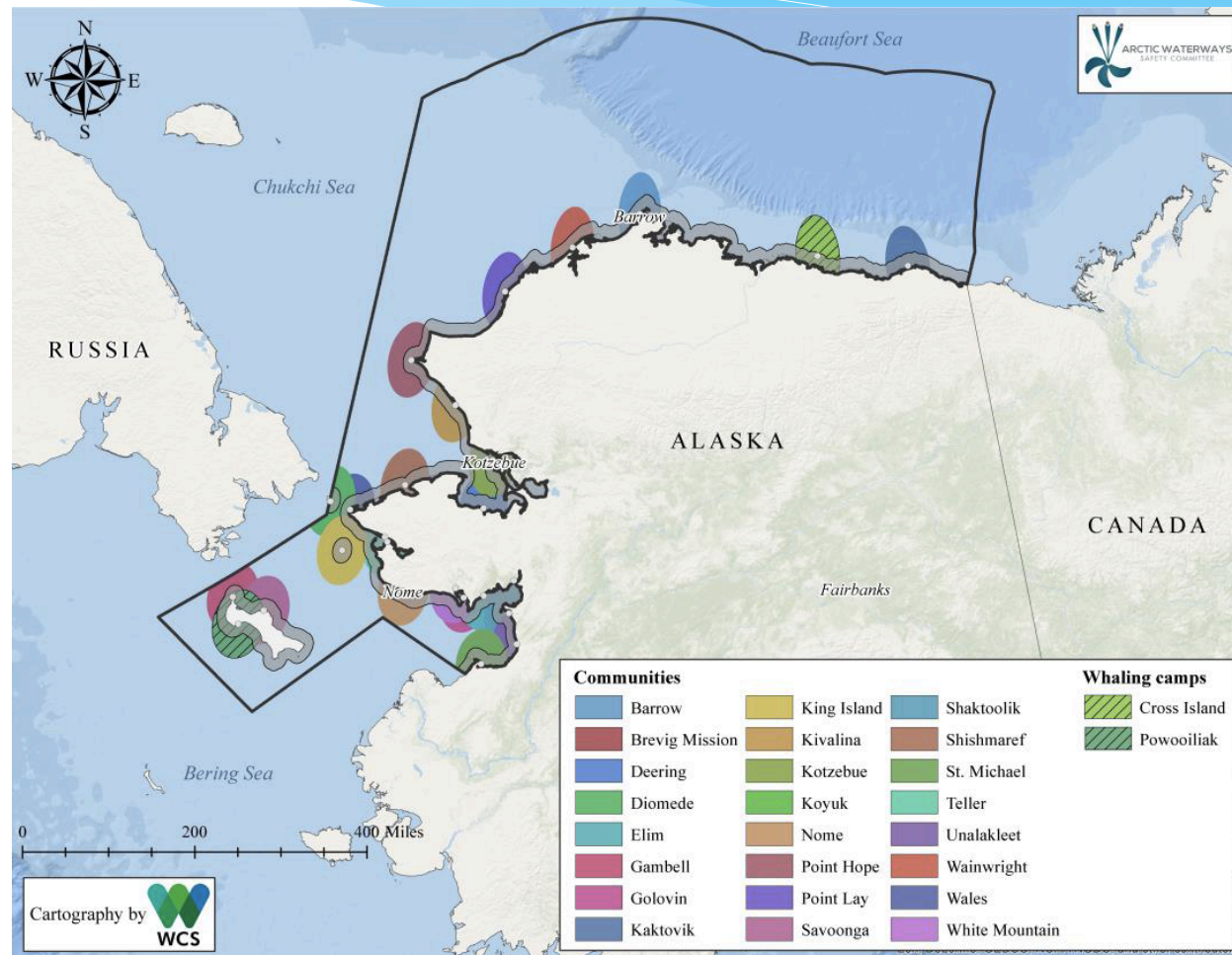
USCGC Healy Upcoming Schedule

- * 2019 Extended Dry Dock for Ballast Tank Preservation (6 mo.)
 - * Might curtail some 2019 science availability
- * 2020 Healy Will Support Antarctic Treaty Inspection (Jan – May)
 - * Polar Star not capable
 - * Will curtail science in Arctic in 2020

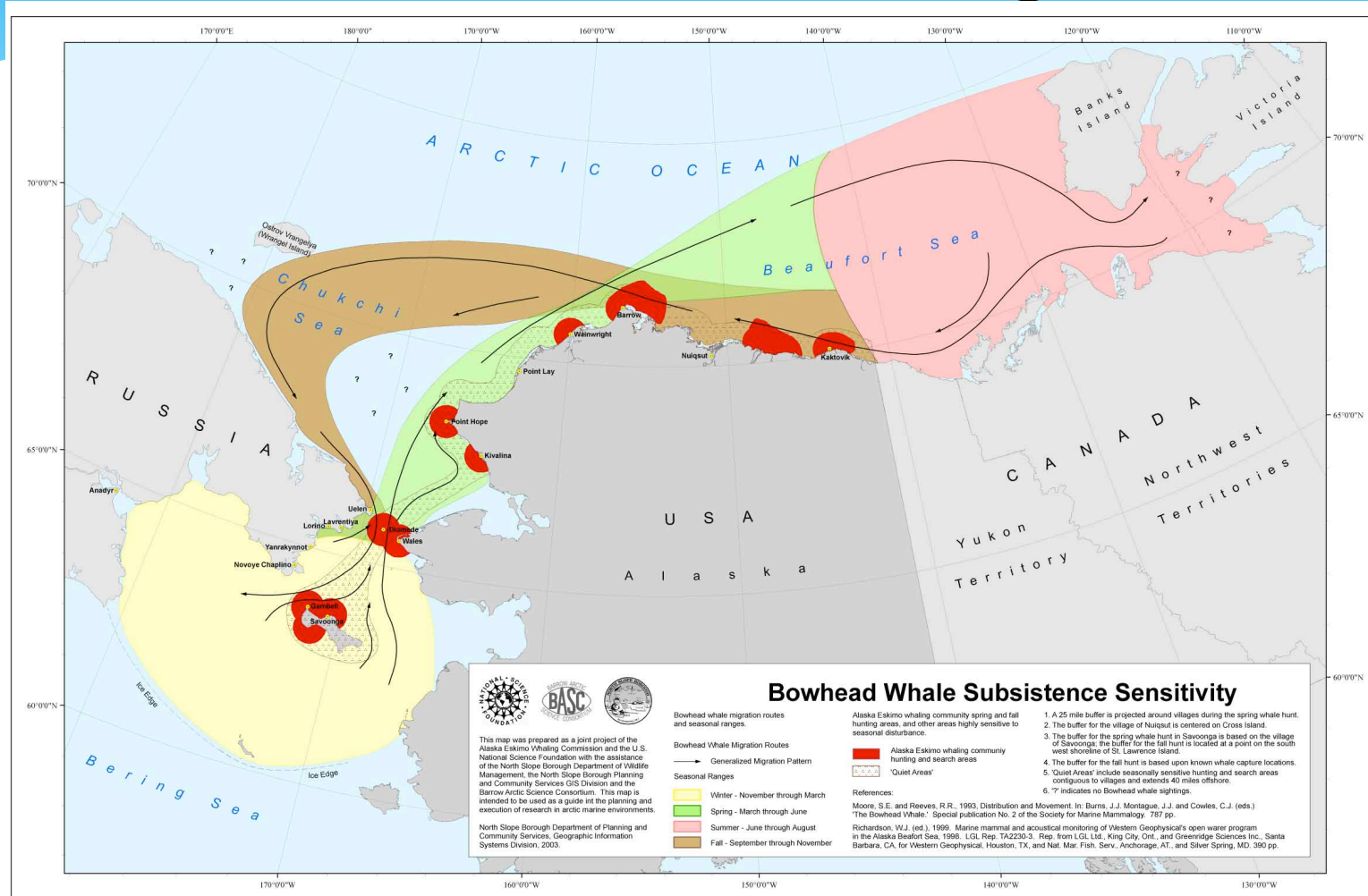
Reducing Conflicts Between Research Cruises and Subsistence Activities

- * 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



Bowhead Whale Migration Routes and Seasonal Ranges



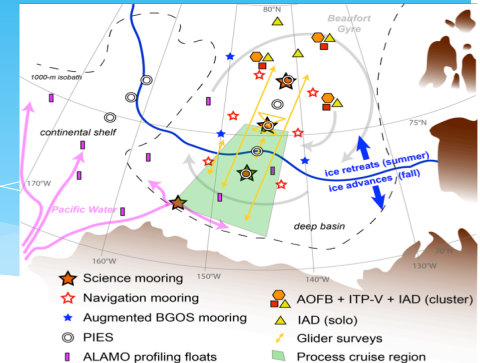
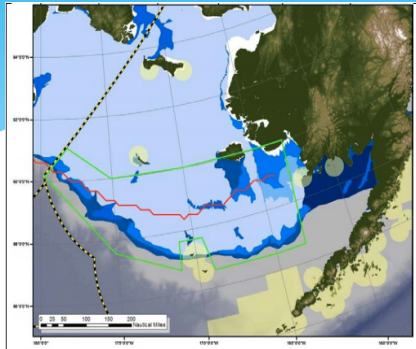
http://icefloe.net/files/Bowhead_Whale_Subistence_Sensitivity.jpg

Arctic R/V Matrix

| Vessel Name | Dates North of Bearing Strait Demarcation Line | Dates North of Aleutians but South of Bearing Strait. | Closest point of shore approach while in Chukchi Sea | Planned Arrival Date in Barrow | Planned Departure Dates from Barrow | Closest point of shore approach while in Beaufort Sea | Planned Arrival to Eastern Beaufort | Approximate Location for Research | Vessel Operator Contact | Research Contact |
|----------------------------------|---|--|--|--------------------------------|-------------------------------------|---|-------------------------------------|--|---|---|
| R/V Sikuliaq | Sept 2-28 | N/A | tbd | | | 60-80 nautical miles | | 1) Chukchi shelf break, 100nm west of Barrow, and 2) Central Beaufort Sea, near retreating ice edge. | Doug Baird, University of Alaska <dbaird2@alaska.edu> | Jennifer MacKinnon <jmackinnon@ucsd.edu> |
| NOAA Oscar Dyson | N/A | DEP Kodiak 03/30/18 ARR Dutch 04/24/18 | N/A | N/A | N/A | N/A | N/A | St Mathew Island and southern most ice edge. | Chiefops.mop@noaa.gov, 541 867 8703 | Ice Seal Ecology (DY-18-04) |
| NOAA Oscar Dyson | N/A | DEP/ARR Dutch 04/29/18-05/10/18 | N/A | N/A | N/A | N/A | N/A | Aleutians and Bering Sea 70m isobath near Bristol Islands | Chiefops.mop@noaa.gov, 541 867 8703 | Eco FOCI Spring Mooring (DY-18-05) |
| NOAA Oscar Dyson | N/A | DEP/ARR Dutch 05/13/18-06/01/18 | N/A | N/A | N/A | N/A | N/A | Bering Sea and Bristol Bay | Chiefops.mop@noaa.gov, 541 867 8703 | EMA-FOCI Larval Groundfish (DY-18-06) |
| NOAA Oscar Dyson | N/A | DEP/ARR Dutch 06/06/18-08/15/18 | N/A | N/A | N/A | N/A | N/A | Bering Sea and Bristol Bay, Shelf Break | Chiefops.mop@noaa.gov, 541 867 8703 | Walleye Pollock - Bering Sea Summer (DY-18-07 Legs 1-3) |
| SIKULIAQ | 6/11/2018 - 6/21/2018 Dates subject to Weather | 6/5 - 6/10, 6/21-6/24/2018 Dates subject to weather | 68.3 N, 166.94 W and 67.603 N, 164.43 W | | | N/A | | Bering Sea Shelf and Chukchi Sea Shelf | UAF, Marine Superintendent, Doug Baird, dbaird2@Alaska.Com | UAF, Seth Danielson, sdanielson@alaska.edu |
| SIKULIAQ | N/A | 6/27 - 7/03/2018 | N/A | | | N/A | | Slime Banks, Bering Sea | UAF, Marine Superintendent, Doug Baird, | BUJMD, CES, Hongsheng Bi, hbi@CBL.umces.edu |
| Osborne Maru | 7/1-7/12 | DEP/ARR Dutch 06/29/18-07/15/18 | 2miles, Point Hope, need to confirm | None | None | N/A | N/A | Bering Strait | Hokkaido University, Faculty of Fisheries | Toru Hirawake, hirawake@salmon.fish.hokudai.ac.jp, 81-138-40-8844 |
| NOAA Oscar Dyson | N/A | DEP/ARR Dutch 08/20/18-09/17/18 | N/A | N/A | N/A | N/A | N/A | Bering Sea and Bristol Bay | Chiefops.mop@noaa.gov, 541 867 8703 | EMA-FOCI Larval Groundfish (DY-18-08 legs 1-2) |
| R/V Sikuliaq | August 3-26 | August 27 | 30 miles | | | 30 miles | | Beaufort Shelf Break ~149-153°W | Doug Baird (UAF: dbaird2@alaska.edu) | Carin Ashjian (WHOI: cashjian@whoi.edu) |
| USCGC Healy | OPSEC | OPSEC | 3.5 miles, Point Hope | None | None | 5 nm off Barrow Canyon, >20 nm for other inshore sampling | N/A | Bering, Chukchi and Beaufort seas | David Forcucci, USCG, David.Forcucci@uscg.mil, 206-217-6648 | DBQ/NOAA funded, Bob Pickart, RPickart@whoi.edu, 508-289-2858 |
| NOAA Oscar Dyson | N/A | DEP Dutch ARR Kodiak 09/21/18-10/06/18 | N/A | N/A | N/A | N/A | N/A | Aleutians and Bering Sea 70m isobath near Bristol Islands | Chiefops.mop@noaa.gov, 541 867 8703 | Eco FOCI Fall Mooring (DY-18-09) |
| NOAA Fairweather | None | DEP Kodiak 06/25/18 Inports Nome July 7-9, 20-23, Aug 02-06, ARR Kodiak 08/27/18 | N/A | N/A | N/A | N/A | N/A | Exact area TBD. Western Coast of AK. Near Nome. | Chiefops.mop@noaa.gov, 541 867 8703 | Arctic Access / NW Alaska (FA-18-02 Leg 1-4) |
| USCGC Healy | mid Sep | Mid Oct | 40 nm | N/A | N/A | >40nm | N/A | > 40 nm North of coast. Along and into the ice edge | David Forcucci, USCG, David.Forcucci@uscg.mil, 206-217-6648 | Navy SODA- Dr Craig Lee, Craig@apl.washington.edu, 206-685-7656 |
| USCGC Healy | Late October | Oct/Nov | 5nm | N/A | N/A | 5nm | >Nov 1 | Chukchi and Beaufort Seas | David Forcucci, USCG, David.Forcucci@uscg.mil, 206-217-6648 | Mooring, NSF funded, Bob Pickart, RPickart@whoi.edu, 508-289-2858 |

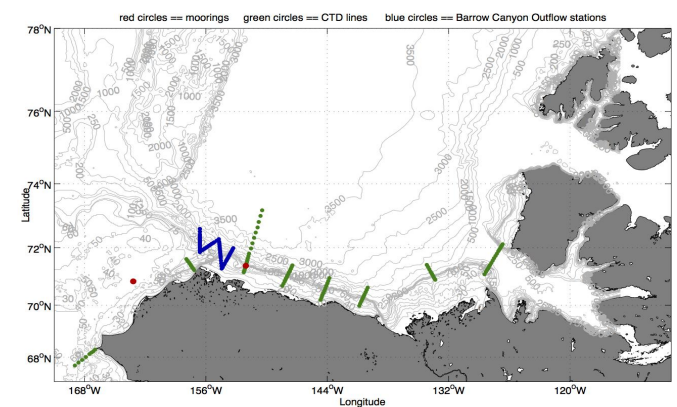
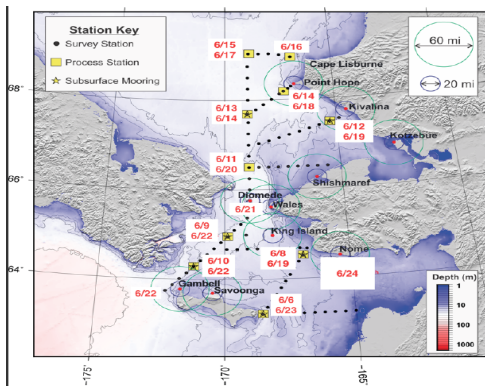
Compiled by Dave Forcucci
Healy Marine Science Coordinator

Arctic Research Cruise Matrix



Research Cruises
Research Vessels
Foreign Vessels
USCGC Healy
R/V Sikuliaq

| | 2016 | 2017 | 2018 |
|------------------|------|------|------|
| Research Cruises | 17 | 24 | 16 |
| Research Vessels | 12 | 13 | 7 |
| Foreign Vessels | 5 | 6 | 2 |
| USCGC Healy | 3 | 4 | 3 |
| R/V Sikuliaq | 2 | 3 | 4 |



USCGC Healy 2018 Schedule



Departs Seattle July 24, 2018;
Returns Nov. 30, 2018

- * HLY1801, Bering, Chukchi and Beaufort Seas, DBO/NOAA, Pickart
- * HLY1802, Beaufort Sea, SODA/ONR, Lee
- * HLY1803, Chukchi and Beaufort Seas, Mooring/NSF, Pickart

R/V Sikuliaq 2018 Schedule



- * 5 Jun/24 Jun, N. Bering/S. Chukchi, NSF/Danielson
- * 27 Jun/03 Jul, Bering Sea, NSF/Bi
- * 3 Aug/27 Aug, Beaufort, NSF/Ashjian
- * 2 Sep/28 Sep, Chukchi/Beaufort Seas, MacKinnon