

R/V *Sikuliaq* and the CECSOP



AICC Winter Mtg

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R/V Sikuliaq

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<https://www.sikuliaq.alaska.edu>





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R/V Sikuliaq Community and Environmental Compliance Standard Operating Procedure

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CODA: Coastal Ocean Dynamics in the Arctic

Jim Thomson (jthomson@apl.uw.edu), Applied Physics Lab, University of Washington, and colleagues



Research questions

- Does increased wave activity resulting from open-water fetch arrive at the coast?
- How do waves interact with shorefast ice?
- Does the increase in wave activity change the currents along the coast?

Why we should care

An increase in open-water wave action along the Arctic coast may accelerate or alter erosion and coastal change. Changes in the waves may also alter circulation patterns that affect the ecosystem.

What we will measure

We will measure wave heights, ocean currents, water temperature, and water salinity along the coast. We will leave 12 small seabed instruments in place for one year (to be recovered in summer 2020). Measurements will target water depths from 5 to 50 meters. We will work at three specific sites chosen to avoid subsistence use areas. We will maintain 50 nautical miles from shore during transits. We will maintain 3 nautical miles from shore in placing seabed instruments.

General 2019 cruise plan

In the summer, the *Ukpik* will conduct some initial surveys and deployments from Prudhoe Bay. In the fall, *Sikuliaq* depart Nome and transit to Flaxman Island to begin three site deployments. See subsistence hunting areas (shaded circles) from Konar et al. [2017], and proposed field sites (the colored dots).

Timeline

Mid-Aug: measurements from R/V *Ukpik*

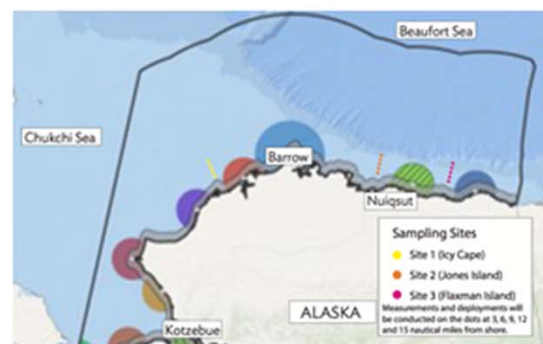
Nov 4: Depart Dutch Harbor

Nov 7: Deploy and measure at Flaxman Island [site 3]

Nov 12: Deploy and measure at Jones Islands [site 2]

Nov 20: Deploy and measure at Icy Cape [site 1]

Nov 28: Return to Dutch Harbor



Sampling Sites

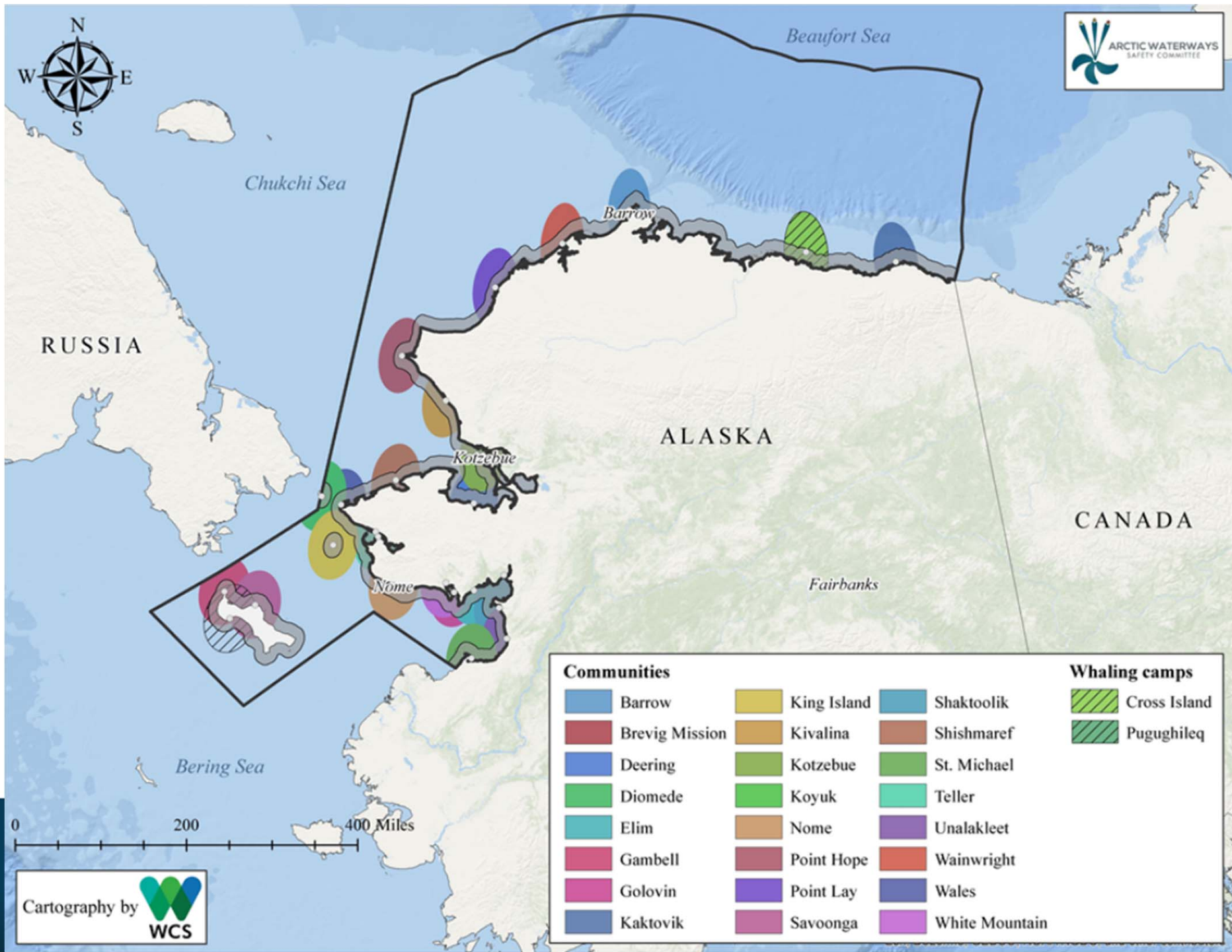
Dates and locations are subject to change based on weather, ice or subsistence activities. Traditional knowledge could help guide these choices.

Daily science updates and additional information

























Jim Thomson plans to visit Utoqavik (Barrow), Kaktovik, Wainwright, and Pt Lay from April 29-May 4, 2019 to discuss cruise plans and science goals. He visited Nome in October 2019.

During the cruise, daily updates will be sent out by *Sikuliaq*'s Second Mate and the bridge will radio the vessel's position and course every six hours. Let Jim Thomson know at jthomson@apl.uw.edu if you want to be on the email list. The project will also post regular updates at www.apl.uw.edu/coda.





Communities

- | | | |
|---|---|--|
|  Barrow |  King Island |  Shaktoolik |
|  Brevig Mission |  Kivalina |  Shishmaref |
|  Deering |  Kotzebue |  St. Michael |
|  Diomedede |  Koyuk |  Teller |
|  Elim |  Nome |  Unalakleet |
|  Gambell |  Point Hope |  Wainwright |
|  Golovin |  Point Lay |  Wales |
|  Kaktovik |  Savoonga |  White Mountain |

Whaling camps

- | |
|--|
|  Cross Island |
|  Pugughileq |

0 200 400 Miles



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Thank you!

