RESEARCH VESSEL SIKULIAQ

ABOUT SIKULIAQ

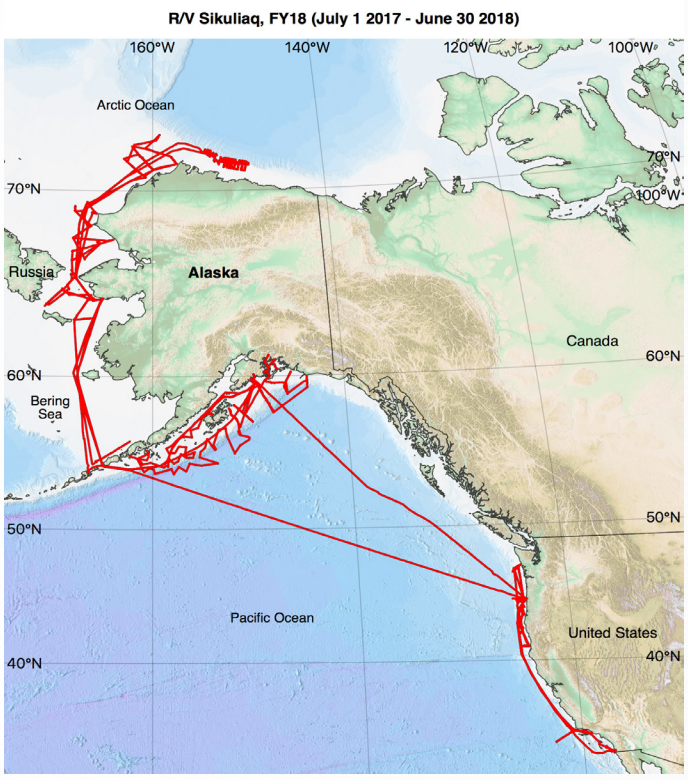
The research vessel *Sikuliaq*—pronounced See-KOO-lee-auk and translated from Inupiaq as "young sea ice"— is a 261-foot Global Class ice-capable research vessel designed to operate in harsh oceanographic conditions to advance polar and subpolar scientific research. Owned by the National Science Foundation and operated by the University of Alaska Fairbanks College of Fisheries and Ocean Sciences, *Sikuliaq* is the only ice-capable vessel in the United States academic fleet.

The vessel is part of the University-National Oceanographic Laboratory System (UNOLS) and is homeported in Seward, Alaska.

2018 CRUISE TRACK

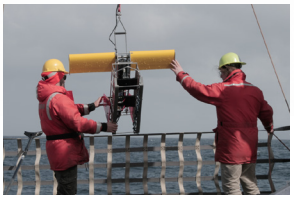
In her second full year of operations, *Sikuliaq* hosted twelve science projects. Chief scientists for these projects were based at nine different universities and institutions. Two Alaska-based cruises were led by CFOS researchers.

Sikuliaq spent over a quarter of the year in the Arctic, and transited north of 72° north latitude. Other cruises took *Sikuliaq* to the West Coast of the United States, west to Hawaii, and as far south as the US–Mexico border.



2018 STATISTICS

31,164 nm traveled •233 total ship days • 164 days of science (not including mob/demob days) • 79 days in the Arctic (as defined by the Arctic Research and Policy Act of 1984) • 455 CTD casts • 346 net tows • 69 moorings deployed • 20 moorings recovered • 30 gliders deployed • 32 gliders recovered • 50 sediment cores collected



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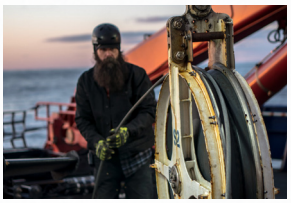

SHIP SPECIFICATIONS

Sikuliaq allows researchers to collect oceanographic samples directly from the water column and seafloor, host remotely operated vehicles, use a flexible suite of winches to raise and lower scientific equipment, and conduct surveys throughout the water column and sea bottom using a variety of sampling systems.

Characteristics	Sikuliaq
Overall Length	261 feet
Draft	18.9 feet
Beam	52 feet
Performance	
Cruising Speed	11 knots
Endurance	45 days
Ice-breaking	2.5 feet at 2 knots
Capacities	
Scientist Berths	24
Crew Berths	20 plus 2 marine technicians
Science Labs	2100 square feet
Lab or Storage Vans	Up to 4 vans
Deck Working Area	4360 square feet
Fresh Water Storage	13,190 gallons
Water Making Capacity	6000 gallons/day
Fuel Capacity	170,000 gallons
Disability Accommodations	Yes: labs, galley, staterooms

COMMUNITY OUTREACH

Sikuliaq strives to work closely with Alaska coastal communities to ensure our activities do not interfere with Native hunting or cultural events. *Sikuliaq* is the first university-operated vessel to adopt standard operating procedures outlining when and how our Arctic researchers are expected to work with coastal communities.

ARCTIC RESEARCH ICEBREAKER CONSORTIUM

Sikuliaq and CFOS have joined 13 other partners from Europe and Canada in the international Arctic Research Icebreaker Consortium (ARICE). The new collaboration supports transnational planning and implementation of Arctic research cruises. Arctic scientists can apply for fully funded access to six international icebreakers, including *Sikuliaq*, to conduct research in the Arctic Ocean. As the US representative in ARICE, *Sikuliaq* is well positioned to serve an increasingly international audience and to foster greater collaboration between US Arctic ship users and international scientific partners.

THAT SHIP IS #SOCOOLIAQ

Follow us on social media!

Facebook: R/V Sikuliaq • **Twitter:** @rvsikuliaq •
Instagram: @rvsikuliaq and @socooliaq

CONTACT US

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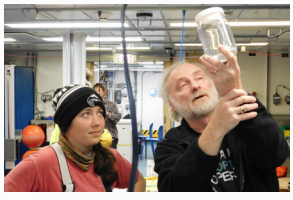


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