

### 2023 UNOLS/AICC Arctic Chief Scientist Training Cruise

March-May virtual meetings • June 2023 transit, R/V Sikuliaq • Early Career Polar Oceanographers

# Program summary

UNOLS AICC Meeting, Alexandria July 19, 2023

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#### THANK YOU

NSF/Frank Rack - funding for this training opportunity & workshop support



UNOLS/AICC, Doug Russell – project development & workshop

R/V Sikuliaq crew and science technicians – supporting the cruise

John Farrell (ARC), Lloyd Pikok (UIC), Karla Heidelberg (USC), Chris Fanshier (OSU) – mentors

Jules Hummon (UH) – UHDAS training

UAF – Doug Baird, Jennifer Elhard, SMC staff – supporting workshop, cruise planning

## Recruitment & applicants

- Applications open Jan 24 Feb 24 for March-June program
- 53 applicants representing more than 30 universities (and NOAA, EPA, and one AK school)



https://blogs.oregonstate.edu/arcticcruise

#### Schedule of activities

- Virtual, March May: 4 planning meetings, 1 risk assessment, 1 formal pre-cruise meeting
  - Participants developed a cruise plan
  - Leads uploaded MFP documents
- June 5 pre-cruise workshop at SMC in Seward
- June 6-12 transit (intensive schedule of meetings, trainings, and survey activities)
- Post-cruise follow-up survey; potential data discussion; informal meetup at OSM



#### **Pre-cruise workshop**

- Introduction to SMC
- Introduction to NSF Arctic Logistics
- Introduction to UNOLS
- Practical considerations of being a chief scientist (interpersonal dynamics)
- UHDAS



#### **Technical systems**

- CTD operations and controls
- Ice stations and equipment
- Winch systems & overboarding
- Underway & meteorological systems
- MARSSAM, MGR, and coring equip



#### Administration – big picture

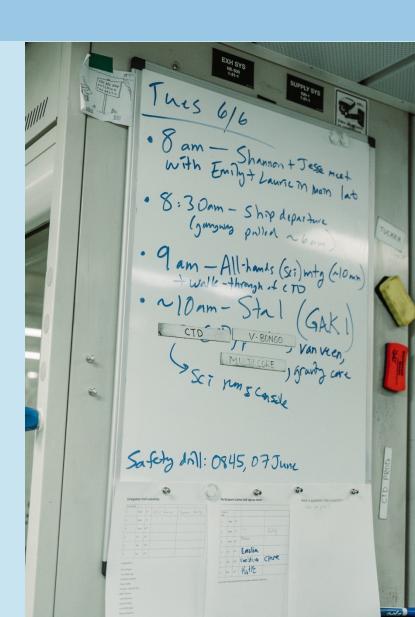
- CESOP
- Maintaining an Environment of Respect Aboard Ships (UNOLS MERAS)
- Geopolitics of working in the Arctic
- Community communications and interactions



#### Administration – cruise execution

Two participants were "acting chief scientists" each day

- Creating and updating the plan of the day (interactive experiences with mentors and captain)
- Communications with the ship
- Writing a daily cruise report & coordinating with community rep



#### Post-cruise expectations & collaborations

- Differences between *R/V Sikuliaq* and *USCGC Healy*
- Overview of PCARs (post-cruise assessment reports)
- Science meeting/research presentations
- Research collaboration discussion





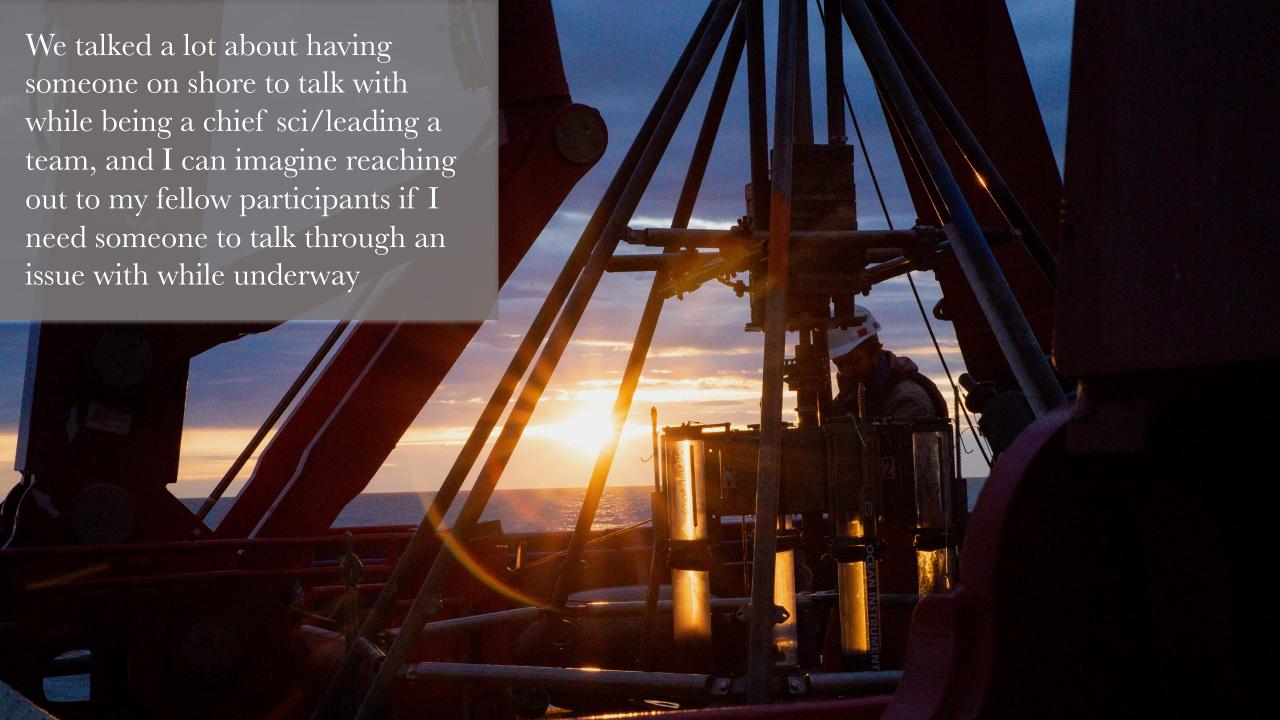


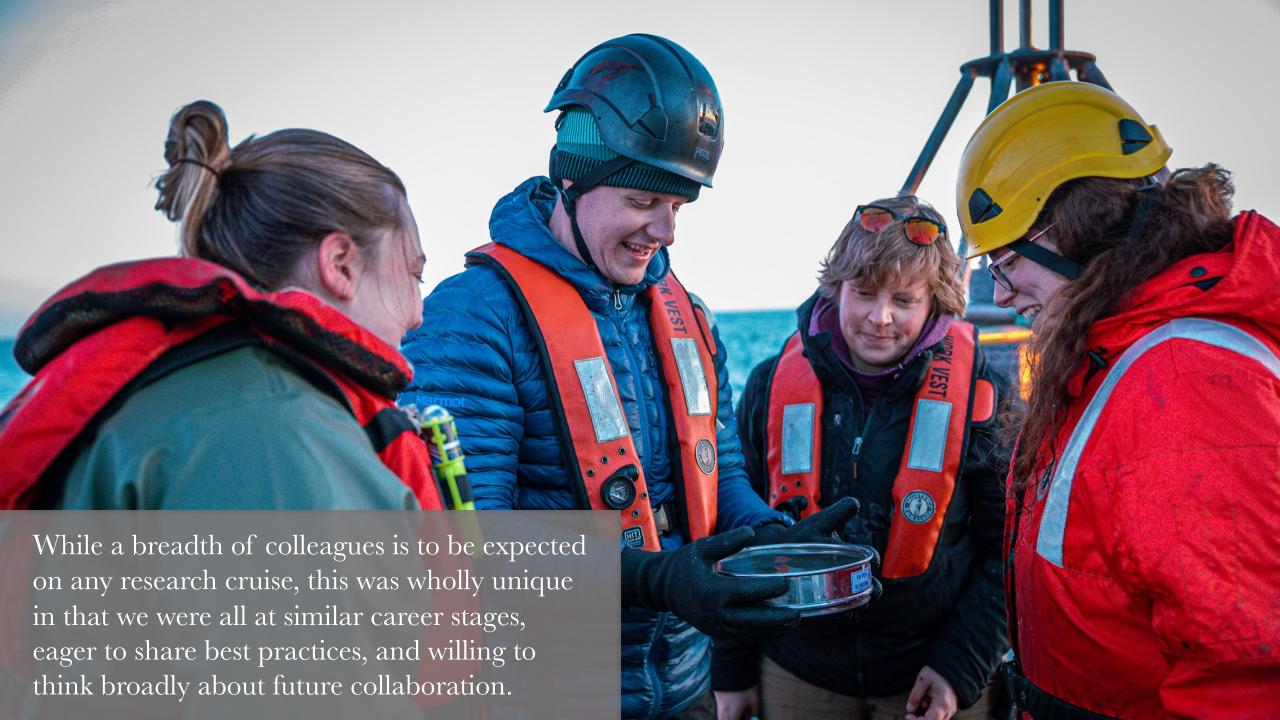


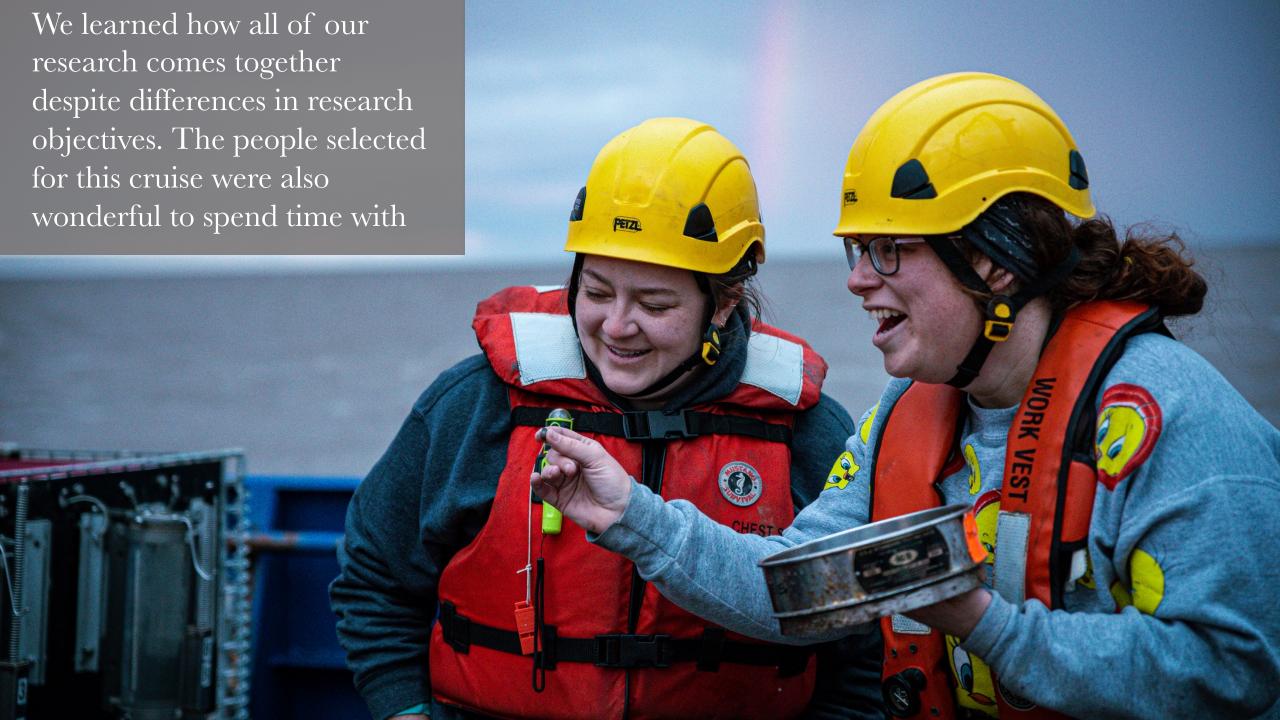














#### Future?

Merits of this Seward to Nome itinerary on R/V Sikuliaq:

- Introduction to SMC (Sikuliaq home port)
- ~6-7 days allowed for diverse training, without an excessive time commitment
- Shallow Bering Sea stations required little wire time
- Sufficient transit time for presentations
- View into Nome port logistics (barge problem, internet outage)



#### Future?

Merits of a slightly longer, more northerly route:

- 8-10 days would provide time for more "acting chief scis" (i.e., more participants) and some additional training topics
- Sea ice
- Deeper water
- More opportunity to learn about remote port shipping & receiving logistics



I admit to having low expectations going in; the cruise track wasn't targeting areas of my direct research interest. But I was blown away by this experience. It was far more immersive and more collaborative, both with fellow scientists, technicians, and the crew, than a typical research cruise...Ultimately, I'm not sure how previous chief scientists could feel comfortable in their roles without the learning experience this cruise offered.

This was an amazing experience and I really hope this program continues

Thank you for this incredible opportunity! I learned a lot at what feels like a critical time in my career development and I highly recommend organizing more of these training cruises in the future.









Overall it was an excellent experience. I am grateful to NSF, UNOLS, UAF, the organizers, and everyone else who worked hard to made this happen. **THANKS!**