



**Alaska Coastal
Cooperative**
ACTION Project

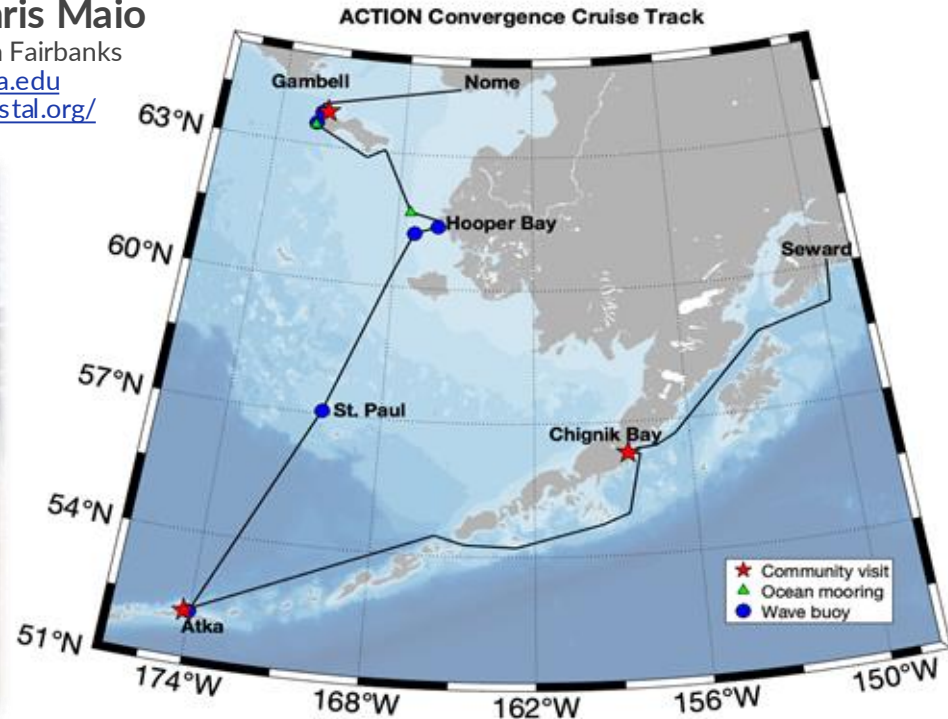
Convergence Research Cruise

July 24 – August 8, 2025



Presented by
Kay McMonigal
University of Alaska Fairbanks
ktmcmonigal@alaska.edu

ACTION PI Chris Maio
University of Alaska Fairbanks
cvmaio@alaska.edu
<https://alaskacoastal.org/>



Cruise Goals

1. **Enhance Communication** between multi-stakeholder groups
2. **Advance applied science** that address locally prioritized research
3. **Build technical capacity** through knowledge sharing, training, and education

Co-
production
of research
plans



Marine
science
skills taught
by crew



Field
surveys
during
community
port calls



Pre cruise planning

- **Preparing cruise participants**

Approximately half community partners, many first time research cruise participants. We held monthly cruise planning meetings with all cruise participants invited, starting 6 months before sailing. Captain and marine techs also invited.

- **Daily schedules**

Mix of transit days and days in/near communities. 24/7 operations while in communities, daytime educational modules and planning during transits.

- **Operator, captain, crew, marine techs on same page as science team**

Key questions: who can go on ship tours (number, ages)? Ability for Sikuliaq to dock? Ability for crew to participate in on shore activities when off duty? Food prep for community BBQs? Policies surrounding hunting and fishing. Audio in main lab

On board logistics



Co produced map of
Atka shoreside
activities

Indigenous partner George
recommending best beach in Gambell to
land small boats based on weather
conditions

Time	Whaly	Work Boat	Biscutts	# people
8:00	Shuttle Hunters (First boat in the			11
9:00	Hunt/ Fishing/ Observing		9:00 Shuttle people	15
10:00				19
11:00	Leave hunt (1130), drop in town		To shore: 4 Crew	
12:00	Puffin Tour		To shore: 4 community members	
13:00	Puffin Tour	8:30 Hunt/ Fishing/	To shore: 4 community members	
14:00	Puffin Tour		To Shore: 2 Community members	
15:00			Potential Crew drop off	
16:00	Bathy Surveys			
17:00				
18:00		END		
19:00	Run back to Sikuliaq		Crew	
20:00	Run back to Sikuliaq		Crew	
21:00	Run back to Sikuliaq			
22:00				
23:00				
0:00				

Draft of small boat plan for Gambell

“Word of the
day”
included on
Board of
Lies and in
daily all-
hands
meetings



Flyer of
shoreside
activities
in Sivuqaq
(Gambell)

On board logistics



SKQ2025-14S DAILY SCHEDULE

SATURDAY – JULY 26, 2025 – Chignik Bay



TIME	ACTIVITY	LEAD	NOTES
00:00			
01:00			
02:00			
03:00	TBD Arrive outer Chignik Bay - CTD	Andreanof/Maio	
04:00	Multibeam/TOPAS Surveys	Andreanof/Maio	
05:00	Multibeam/TOPAS Surveys	Andreanof/Maio	
06:00	Multibeam/TOPAS Surveys	Andreanof/Maio	
07:00	Arrive off from Chignik City Dock - Launch Workboat - Advance Team goes ashore in workboat to sm boat harbor	Balazs/Maio	
08:00	Dock Chignik Bay		
09:00	Shoreside activities – Intertidal Exploration	Balazs/Maio	
10:00	Shoreside activities – Public ship tours	Balazs/Maio	
11:00	Shoreside activities – Public ship tours	Balazs/Maio	
12:00	Shoreside activities – Public ship tours	Balazs/Maio	
13:00	Shoreside activities – Public ship tours	Balazs/Maio	
14:00	Shoreside activities	Balazs/Maio	
15:00	Prep BBQ	Maio	
16:00	Prep BBQ	Maio	
17:00	BBQ	Maio	
18:00	BBQ	Maio	
19:00	Return to SKQ – 19:30 - Depart Dock		
20:00	CTD then Sediment Core Chignik Bay	Andreanof/Maio	
21:00	Sediment Core Chignik Bay	Andreanof/Maio	
22:00	Sediment Core Chignik Bay	McMonigal/Maio	
23:00	Wave Buoy Deploy	McMonigal/Maio	

Example community visit day schedule



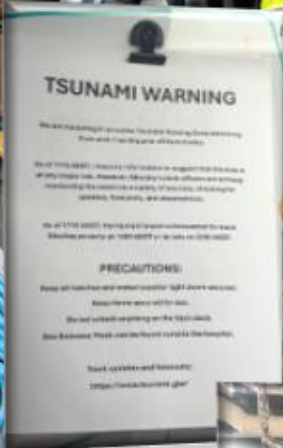
SKQ2025-14S DAILY SCHEDULE

MONDAY – JULY 28, 2025 – Transit



TIME	SHFT	ACTIVITY		LEAD	NOTES
00:00	NGHT				
01:00					
02:00					
03:00					
04:00					
05:00					
06:00					
07:00		Breakfast - 7:15-8:30			
08:00	D A Y				
09:00		Module - Oceanography Classroom			
10:00		Module - Sediment core processing			
11:00		Wellness Activity – Free Time (30 min)		McDonald	
12:00		Lunch - 11:30-12:30			
13:00	A L L	Module - Jam Making (half group starts with each module, then swap half way through - 30 min break between)	Module - Oceanography bathymetry, hydroball	Orloff	Atka Logistics meeting on bridge
14:00				McMonigal	
15:00					
16:00		All Hands Lab Meeting - Atka Planning Discussion		Maio/McMonigal	
17:00		Dinner			
18:00	N I G H T				
19:00		Seminar 3 - The Story and History of Sikuliaq		Artie Levine	
20:00		Oceanography Classroom		McMonigal	
21:00		Sediment Core Processing		Gisler	
22:00					
23:00					

Example transit day schedule



**Weather +
small boats**

Challenges and Successes

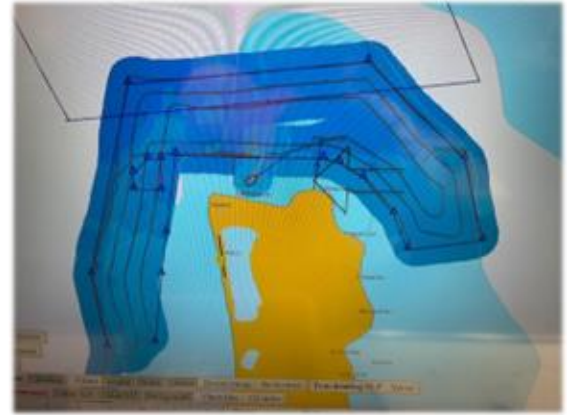
Challenges and Successes



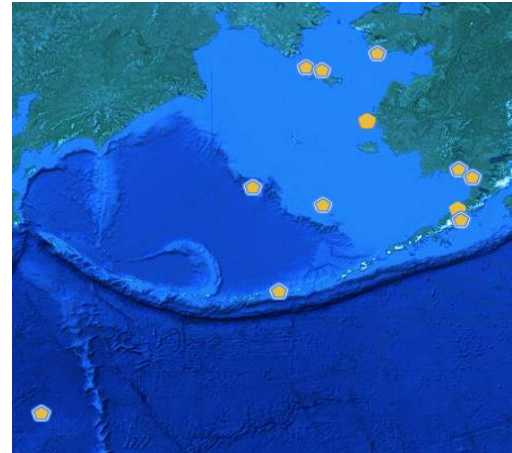
Chignik Bay community partners during Port Call with Captain and 1st Mate. This exemplified our goal of enhancing communication with rural communities

What did we accomplish?

- 2 ocean moorings
- 8 wave buoys
- 14 CTDs
- HABs monitoring
- 12 coring sites (gravity and multi)
- Soil and water contaminant testing
- Topographic surveys
- Bathy/TOPAS surveys in vicinity of 4 communities
- **Thank You *Sikuliaq* and crew!**



Multibeam tracks near Gambell



ACC Wave buoys

What did we accomplish?

- Carried out community prioritized land and sea research
- Training and education modules
- 3 port calls
- Practiced convergence science
- Successfully navigated a complicated logistics plan
- **Thank You *Sikuliaq* and crew!**



As Indigenous partners teach about processing a reindeer a multicore is lowered from the A-frame