

# Update on the Alaska Coastal Mapping Strategy

Juliana Blackwell  
Director, NOAA National Geodetic Survey  
Alaska Mapping Executive Committee

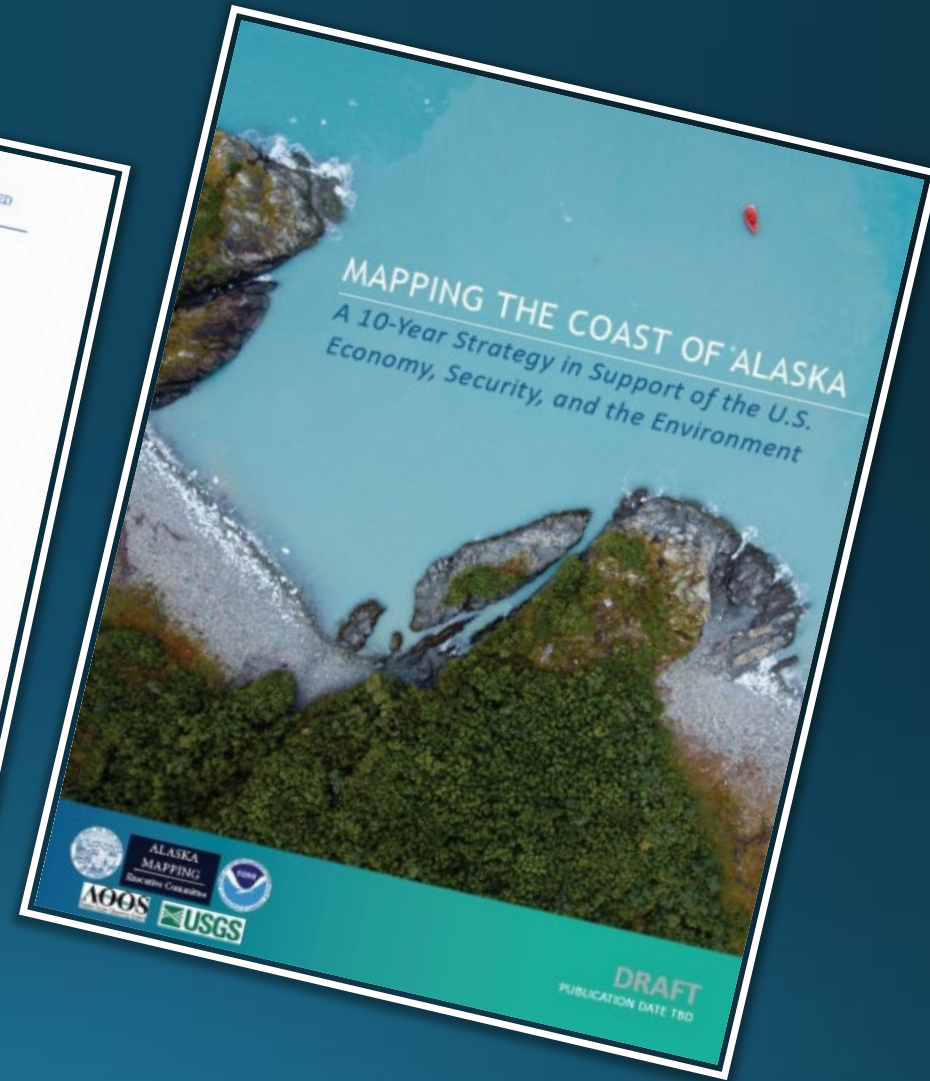


12.9.20

# Setting the Stage: National Mapping Plans

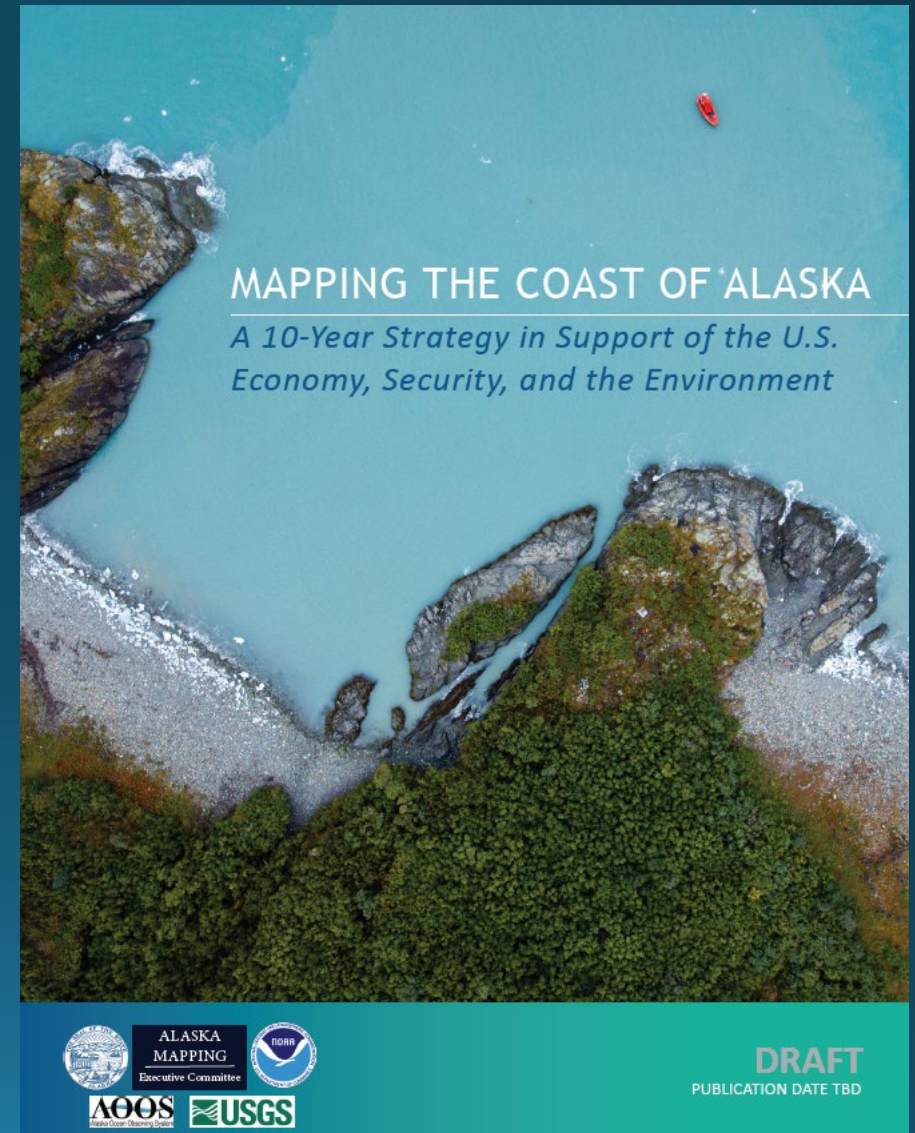
National Ocean Mapping, Exploring, and Characterization of the U.S. EEZ (NOMECE)

Alaska Coastal Mapping Strategy (ACMS)



# Alaska Coastal Mapping Strategy (ACMS) Goals

1. Build on existing mapping partnerships to meet Alaska's coastal mapping needs
2. Expand coastal data collection to deliver the priority geospatial products stakeholders require
3. Leverage innovation in mapping technology development
4. Conduct strategic communications to promote widespread stakeholder engagement





# ACMS Coordination Structure Through AMEC

Alaska Mapping Executive  
Committee  
*(designated to fulfill ACMS strategy)*

Co-Chairs: USGS, NOAA

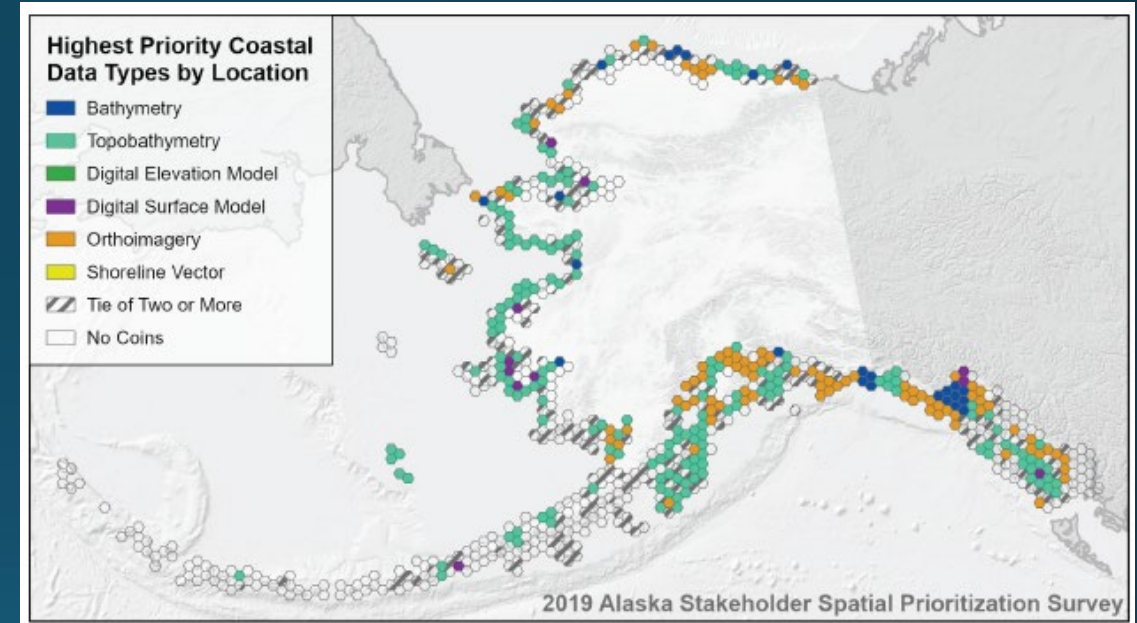
Members: USGS, BIA, BLM, BOEM, NPS,  
USFWS, NGA, NRO, USACE, FAA, EPA,  
FEMA, OMB, NCRS, USFS, State of Alaska

AMEC Coastal Subcommittee  
*(new)*

Co-Chairs: NOAA, State of Alaska  
Members: USGS, BOEM, BLM, NPS, FWS,  
USFS, NRCS, USACE, FEMA, USCG, AOOS

# ACMS Goal 1: Build on existing mapping partnerships

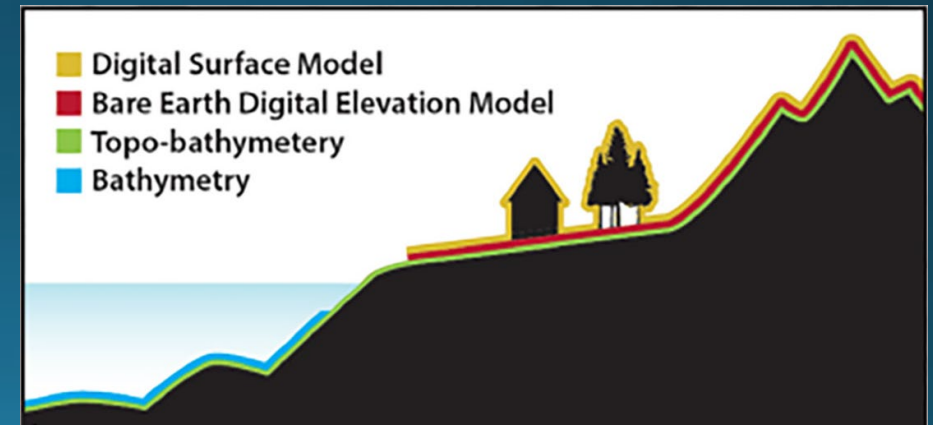
- Establish Coastal Mapping Technical Subcommittee
- Implementation Plan underway, draft due December 2020
- FY 2021 President's Budget for interagency mapping strategy: +\$8.5M for NOAA
- User assessments, data studies, outcomes of 3D Nation Elevation Requirements and Benefits Study to inform Plan
- Integrating with other AMEC mapping themes to factor in planning, e.g., elevation, terrestrial hydrography, wetland/vegetation mapping





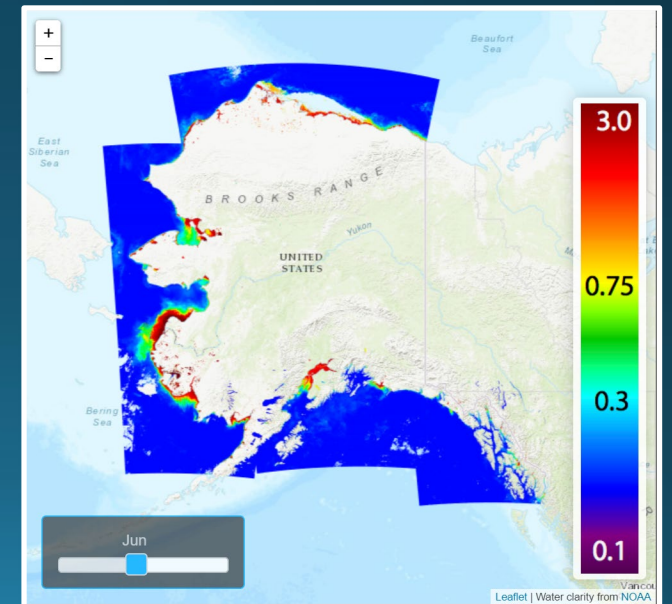
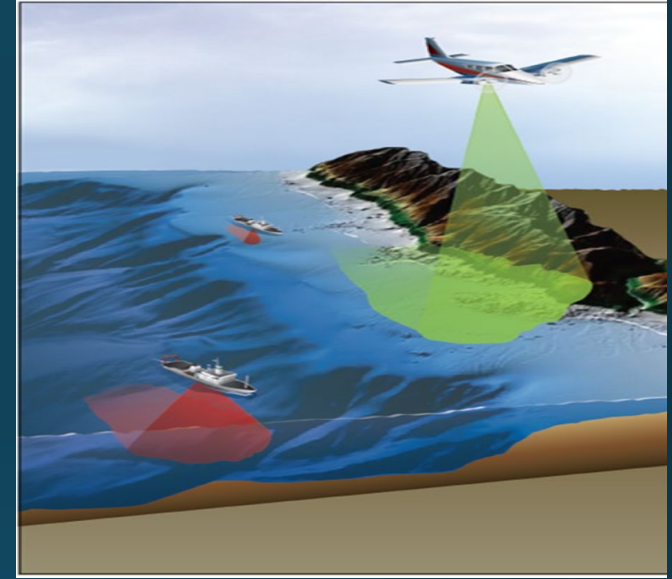
# ACMS Goal 2: Expand coastal data collection to deliver priority geospatial products

- Primary data types:
  - Nearshore bathymetry
  - Topobathymetry
  - Shoreline vector
  - Orthoimagery
  - Digital Elevation Models/Digital Shoreline Models
- Begin Aleutian Island GRAV-D data collection in FY21 and complete in FY22
- Negotiating adoption of three coastal National Science Foundation CORS into NOAA's Foundation CORS Network in FY21



# ACMS Goal 3: Leverage innovation in mapping technology

- NOAA water clarity tool for AK topobathy upgraded using a composite of 2019 Sentinel 3 imagery
- Testing new technologies for acquisition efficiencies:
  - Satellite-derived bathymetry, e.g. Sentinel 2, WorldView-3 and ICESat-2, cloud computing
  - UxS as force multipliers, sUAS ship launched operations; multiple sUAS for deriving bathymetry, continued development or UxM for “filling the gap” between airborne lidar and maritime hydrography



# ACMS Goal 4: Strategic communications for stakeholder engagement

- Alaska Coastal Mapping Summit planned for December 2020
- Online interactive maps to be hosted by the Alaska Geospatial Council
- Performance measurement and progress will be tracked on Alaska DNR website
- Plans and priorities shared through the IWG-OCM's Federal U.S. coordination site ([fedmap.seasketch.org](http://fedmap.seasketch.org))





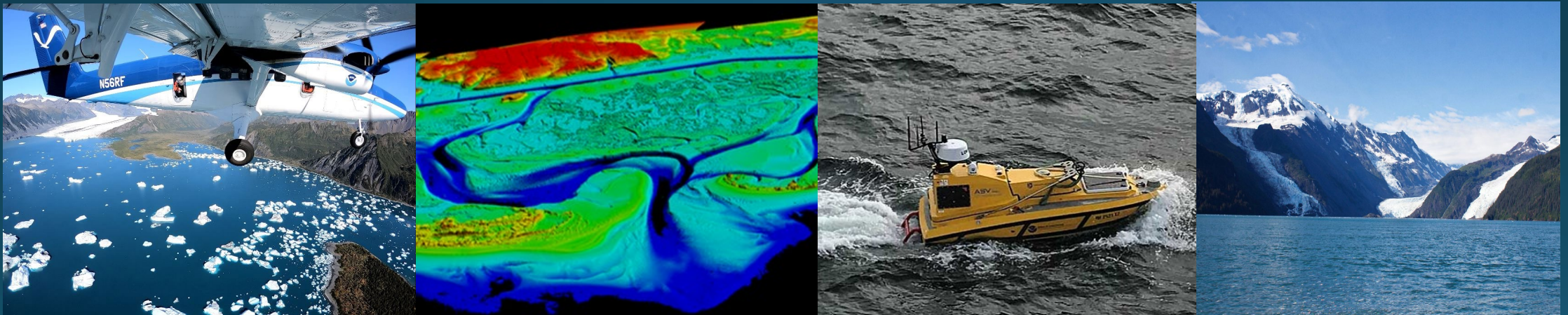
# AMEC Coastal Subcommittee

- Champion: Juliana Blackwell, NOAA
- Co-Chairs: Ashley Chappell, NOAA, and Jacquelyn Overbeck, AK DNR

USGS	Elizabeth Powers	Steve Aichele, Jeff Danielson, Tracy Fuller, Ann Gibbs, Brian Wright
BOEM	Gail Morrison	
BLM	Chris Noyles	
NPS	Tahzay Jones	
FWS	Sydney Thielke	Lew Coggins
USFS	Neil Stichert	Kim Homan
NRCS	Denise Miller	
USACE	Jennifer Wozencraft	Chris Macon
AOOS	Molly McCammon	Marta Kumle
FEMA	Ted Perkins	Wendy Shaw, Paul Rooney, Rynn Lamb
USCG	Dave Seris	
Alaska	Jacquelyn Overbeck	Leslie Jones
NOAA	Ashley Chappell	Mike Aslaksen, Colin Becker, Bart Buesseler, Amber Butler, Christine Hayes, Rebecca Heim, Amy Holman, Nicole Kinsman, Laura Rear Mclaughlin, Summer Ohlendorf, Dave Stein, Lauren Talbert, Timi Vann, Oriana Villar, Meredith Westington, Stephen White, Robb Wright

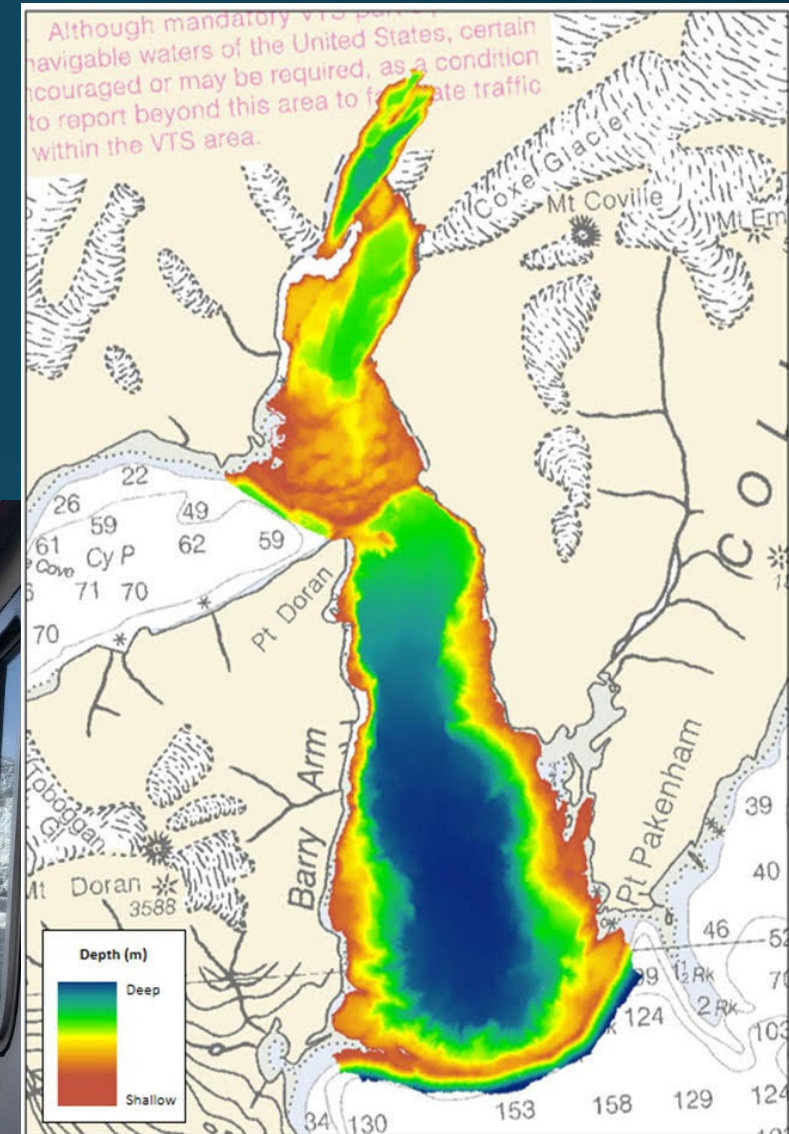
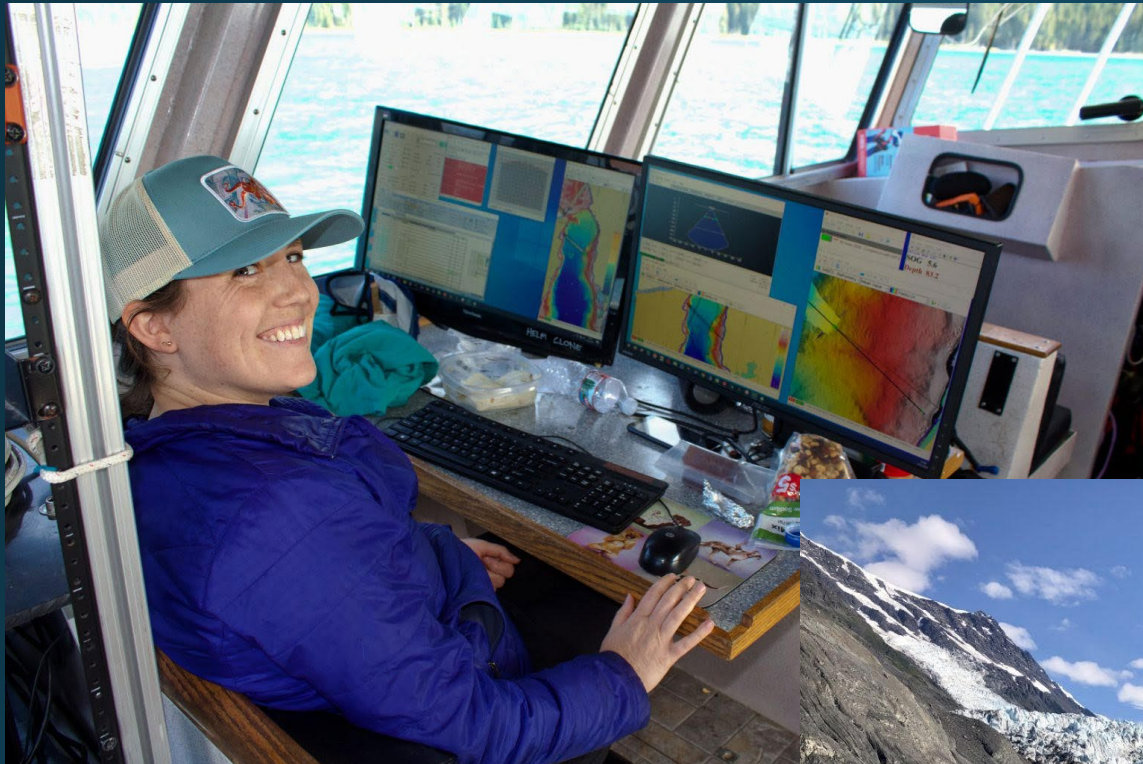
# Recent and Upcoming Activity

- July 9 -- AMEC Coastal Subcommittee (CS) Kick-off Meeting
- August 11 -- CS agency introductions (priorities, requirements)
- September 1 -- Establish CS Implementation Plan (IP) tiger teams
- November 20 -- Working Implementation Plan draft due
- December 9-10 -- Alaska Coastal Mapping Summit
- December 2020 -- Final draft IP for AMEC review
- January 2021 -- IP draft shared for public comment
- March 2021 -- Final IP complete and ready to execute





# Collaboration - An Example From Barry Arm



eTrac



Thank you!