USCGS Chart 9127 (1945)

Making the Case for Multidisciplinary Ocean Research in the Aleutians

Dominic Bush, Jason Raupp, and Carolina Funk

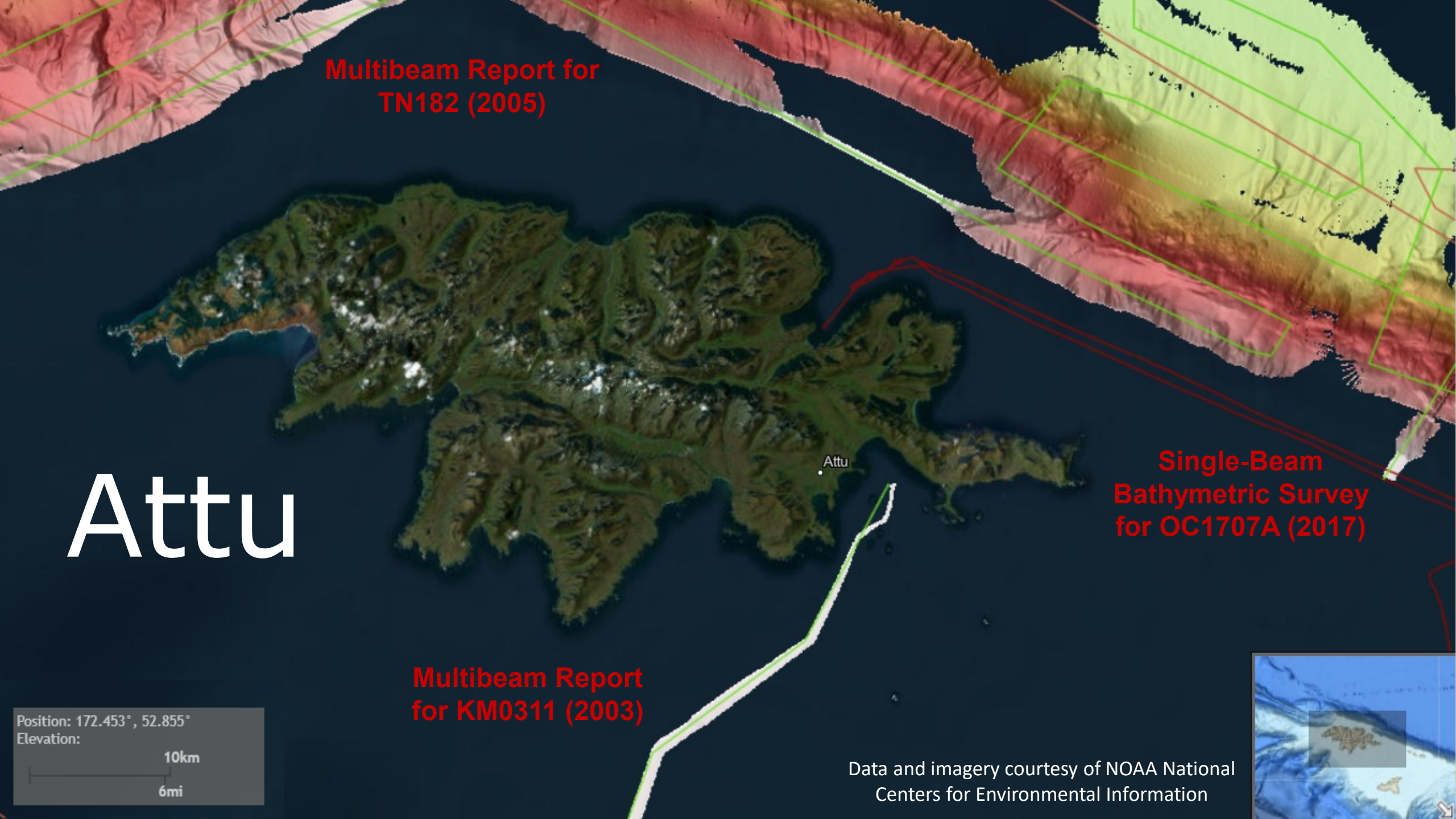
2023 Alaska Geosummit

October 25 – 27, 2023

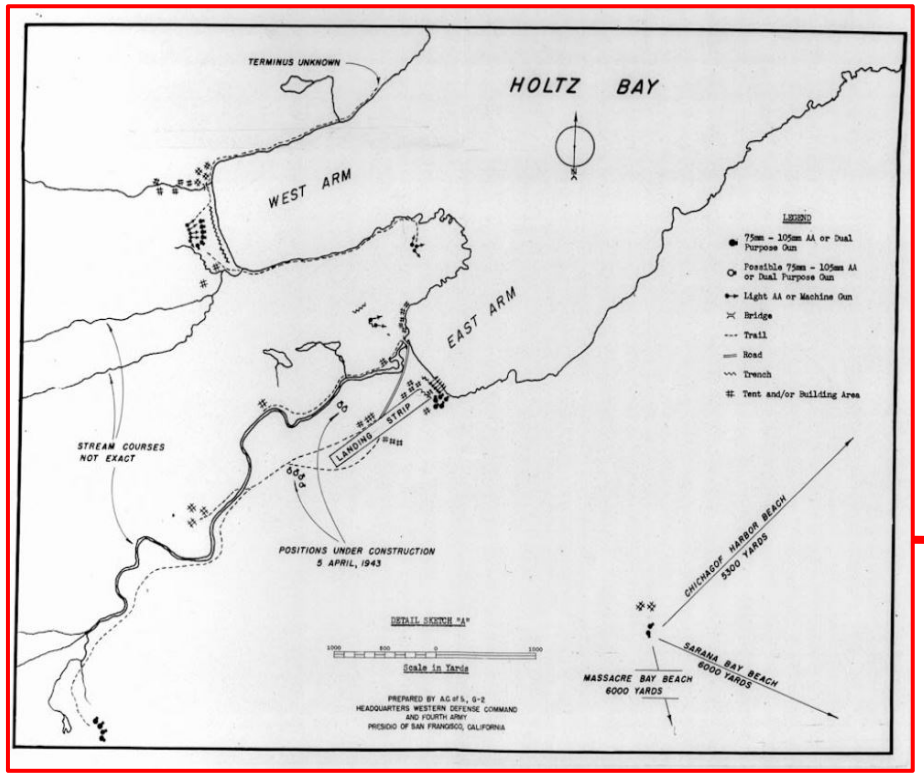
Anchorage, Alaska

ECU

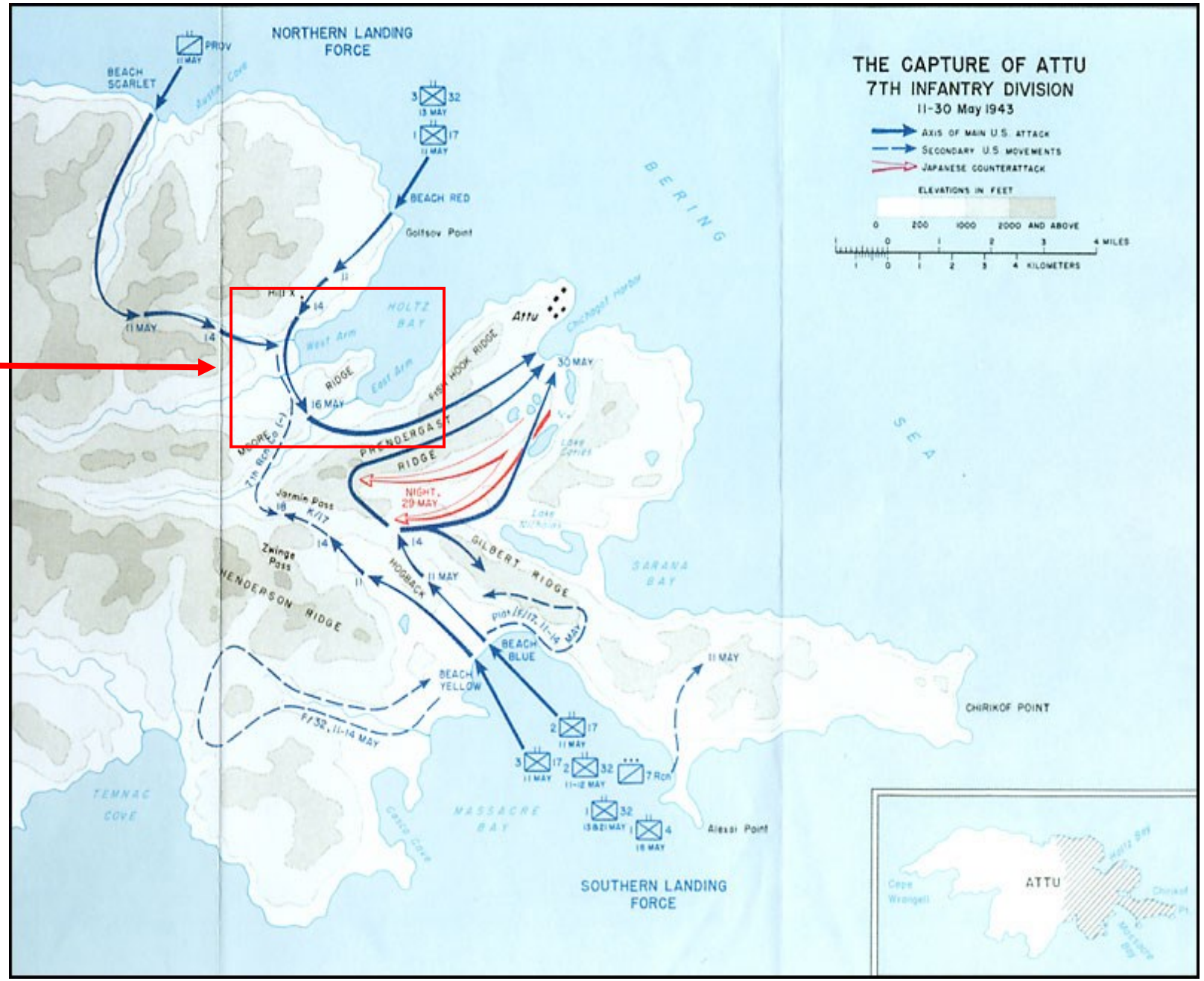
University at Buffalo


Multibeam Report for TN182 (2005)
Attu
Attu
Single-Beam Bathymetric Survey for OC1707A (2017)
Multibeam Report for KM0311 (2003)
Position: 172.453°, 52.855°
Elevation:
10km
6mi
Data and imagery courtesy of NOAA National Centers for Environmental Information

MR 300 Alaska (9) – Maps and Plans of Attu Occupation



Smith 1943. Preliminary report on Attu Landing. Pg. 2



Conn et al. 1962. *Guarding the United States and Its Outposts*. Pg. 281

Alaska and Polar Regions Collections, Elmer E. Rasmuson Library, University of Alaska Fairbanks

Alaska and Polar Regions Collections, Elmer E. Rasmuson Library, University of Alaska Fairbanks

Alaska State Library - Historical Collections

United States Army

549 KIA

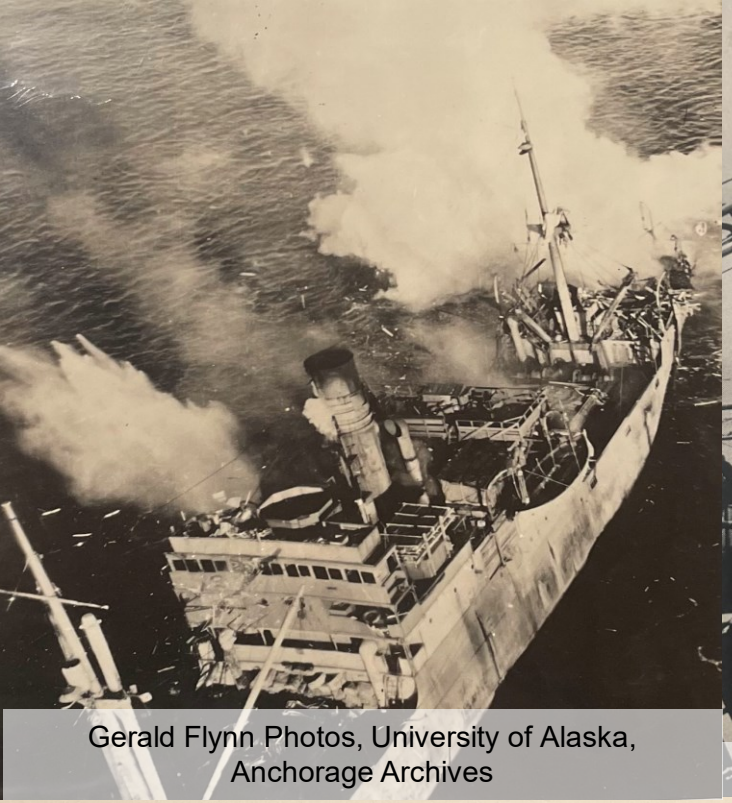
1,148 WIA

2,000+ Non-Battle Injuries

Alaska and Polar Regions Collections, Elmer E. Rasmuson Library, University of Alaska Fairbanks

Alaska and Polar Regions Collections, Elmer E. Rasmuson Library, University of Alaska Fairbanks

Alaska and Polar Regions Collections, Elmer E. Rasmuson Library, University of Alaska Fairbanks

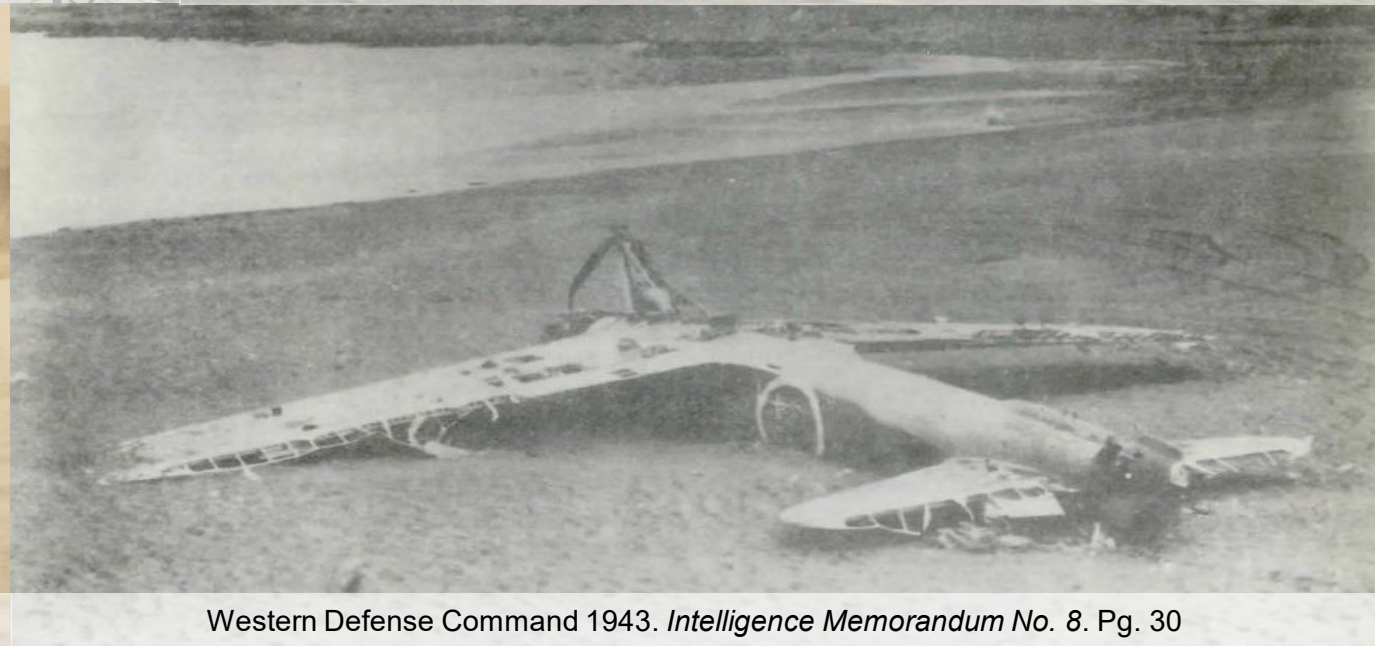


Gerald Flynn Photos, University of Alaska, Anchorage Archives

Handleman 1943. *Bridge to Victory*. Pg. 120

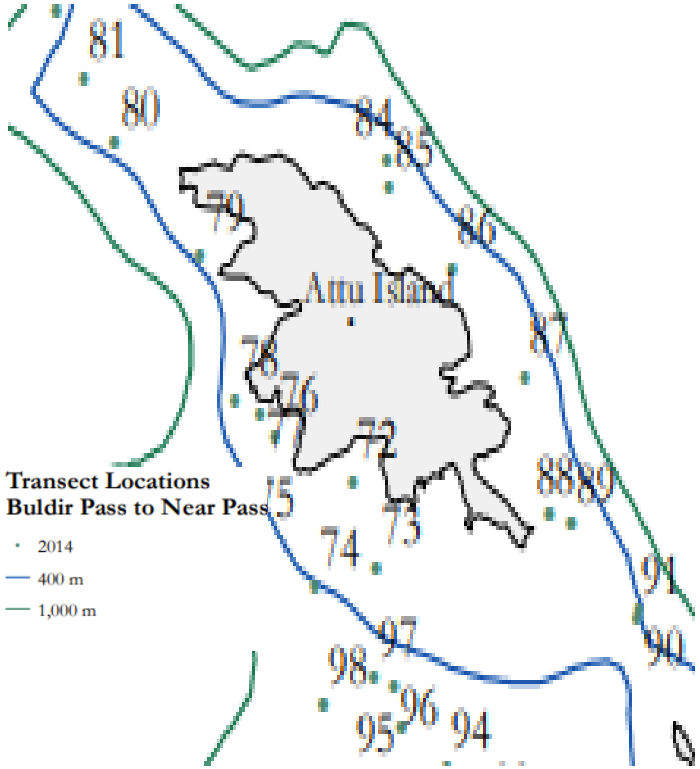
Kenneth Hillman Photograph Collection, Anchorage Museum Archives

Ralph Gilmore Photo Album, University of Alaska, Anchorage Archives

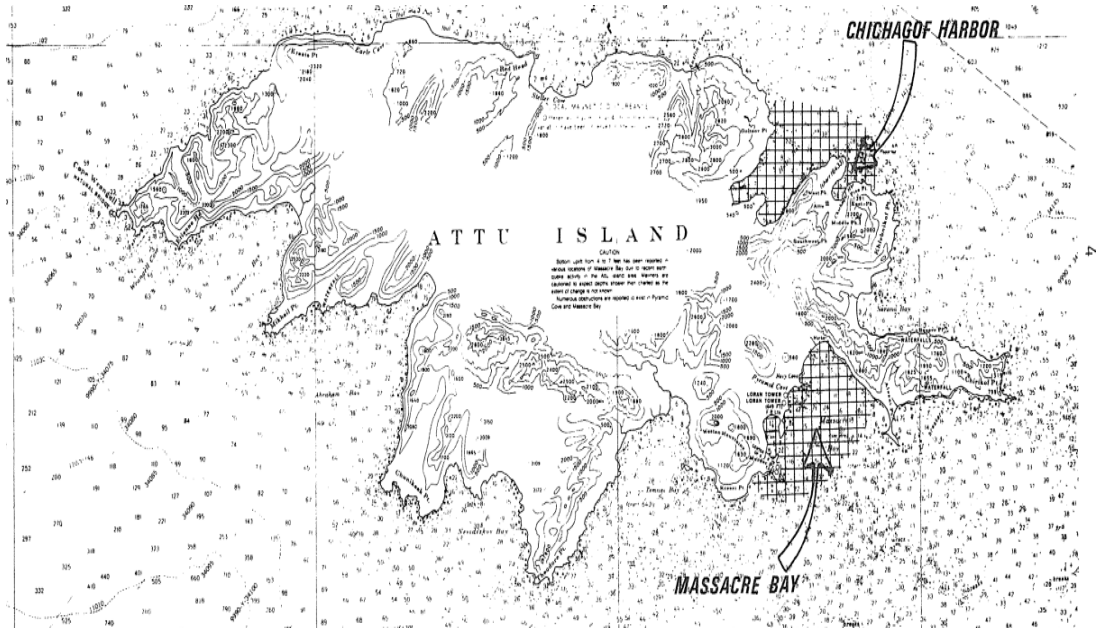


Western Defense Command 1943. *Intelligence Memorandum No. 8*. Pg. 30

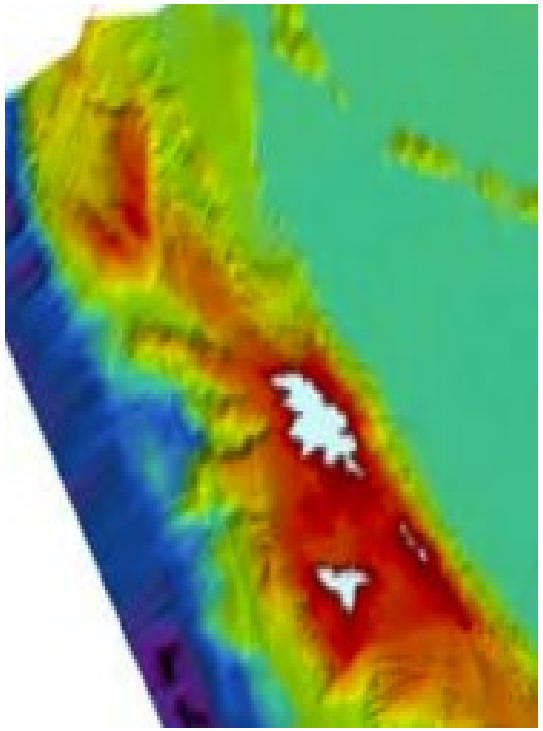
Previous Survey Projects



Goodard et al. 2017. Results of the 2012 and 2014 underwater camera surveys of the Aleutian Islands. Pg. 336

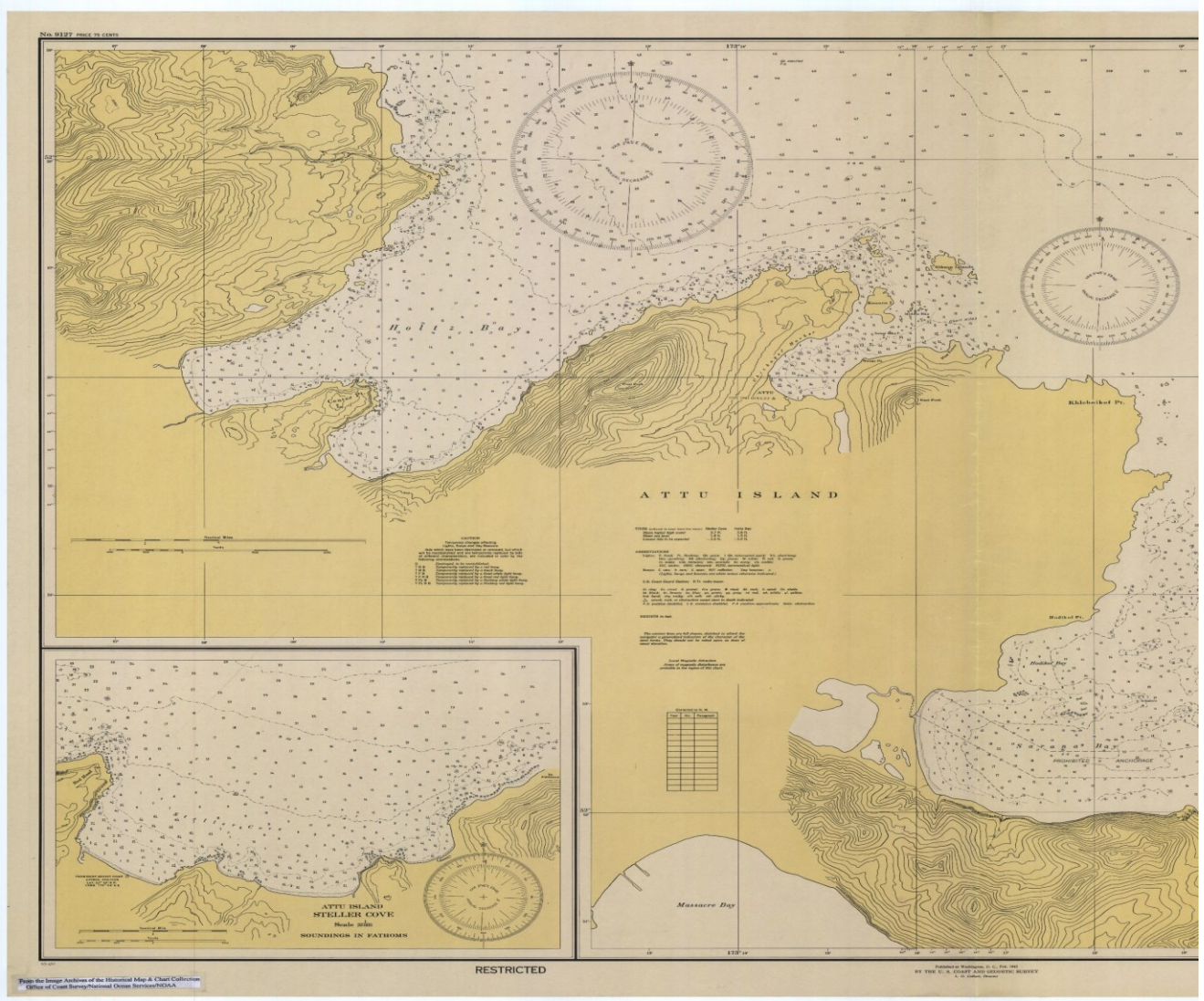


Simenstad et al. 1978. Nearshore Fish and Macroinvertebrate Communities of Attu Island, Alaska. Pg. 4

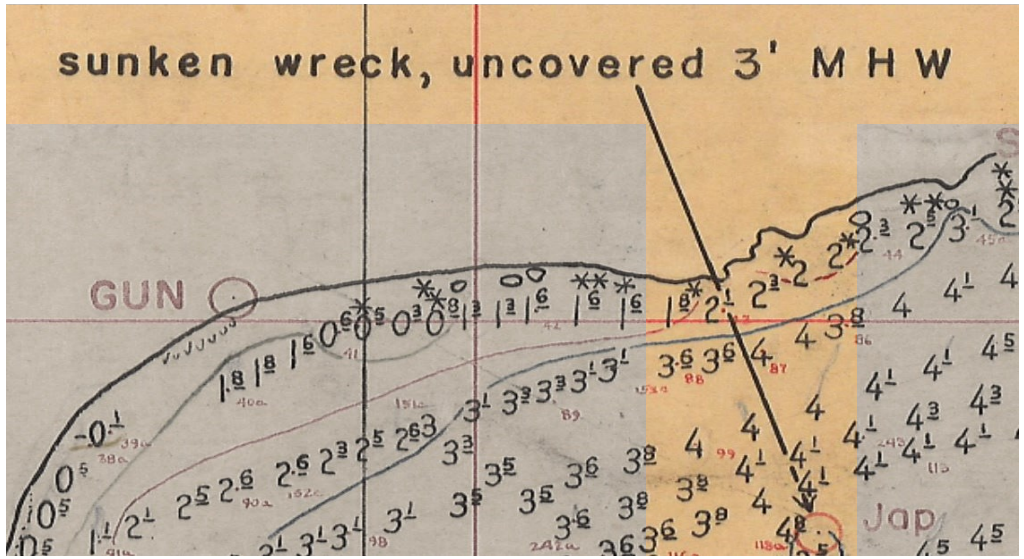


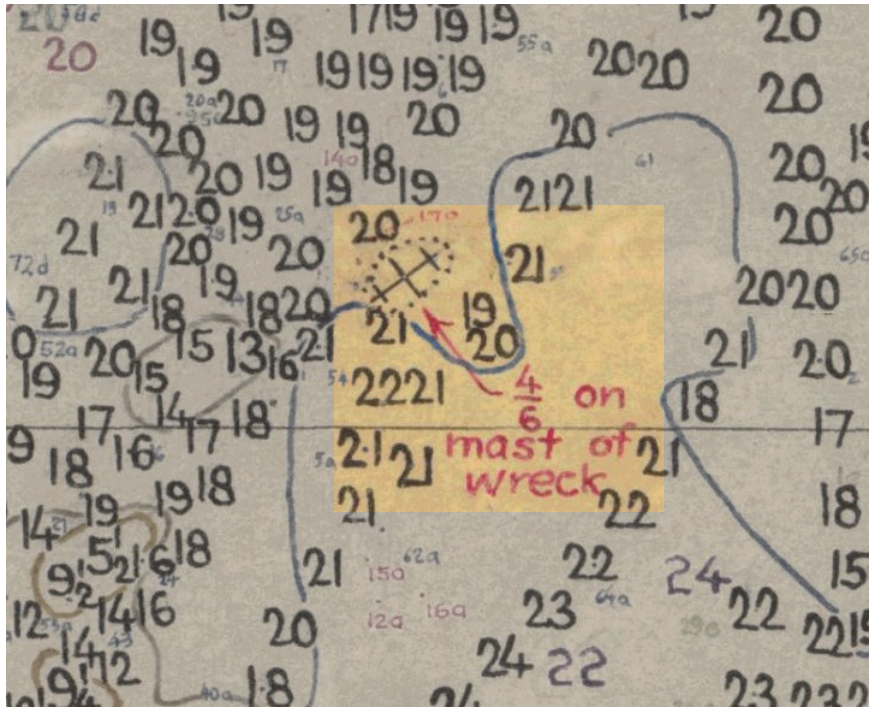
Zimmerman et al. 2013. Smooth sheet bathymetry of the Aleutian Islands. Pg. 35

United States Coast and Geodetic Survey (1943-1947)

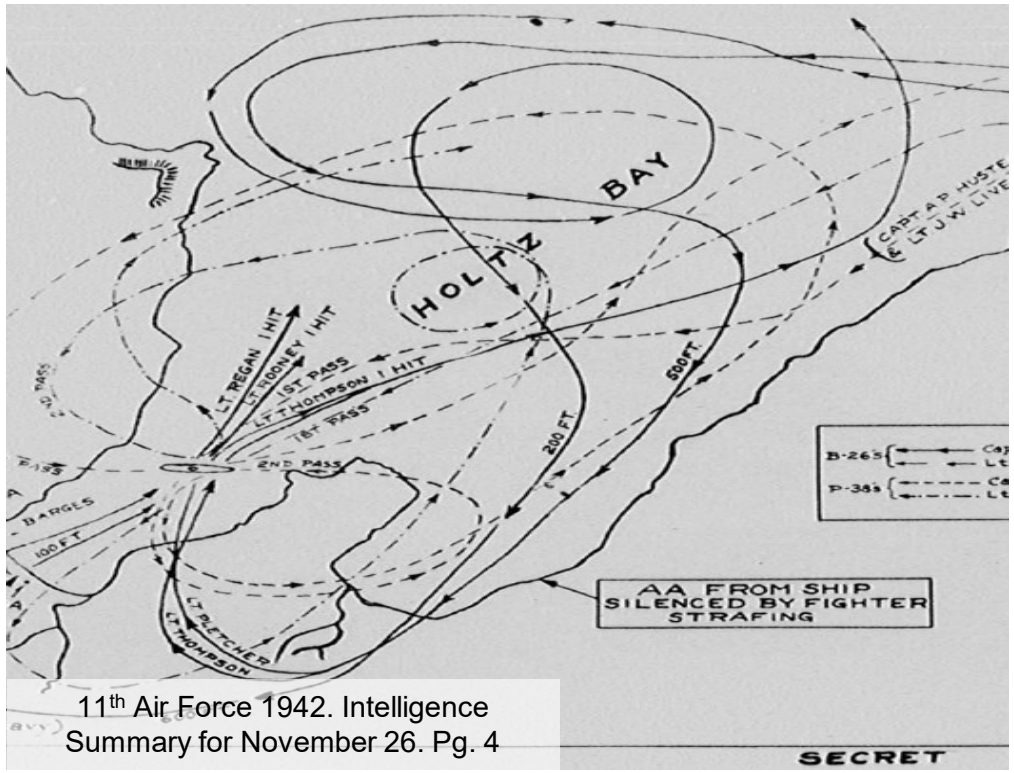


USCGS Chart 9127 (1945)





USCGS Smooth Sheets for H07014 (1944) and H06039 (1943-1947)



11th Air Force 1942. Intelligence Summary for November 26. Pg. 4

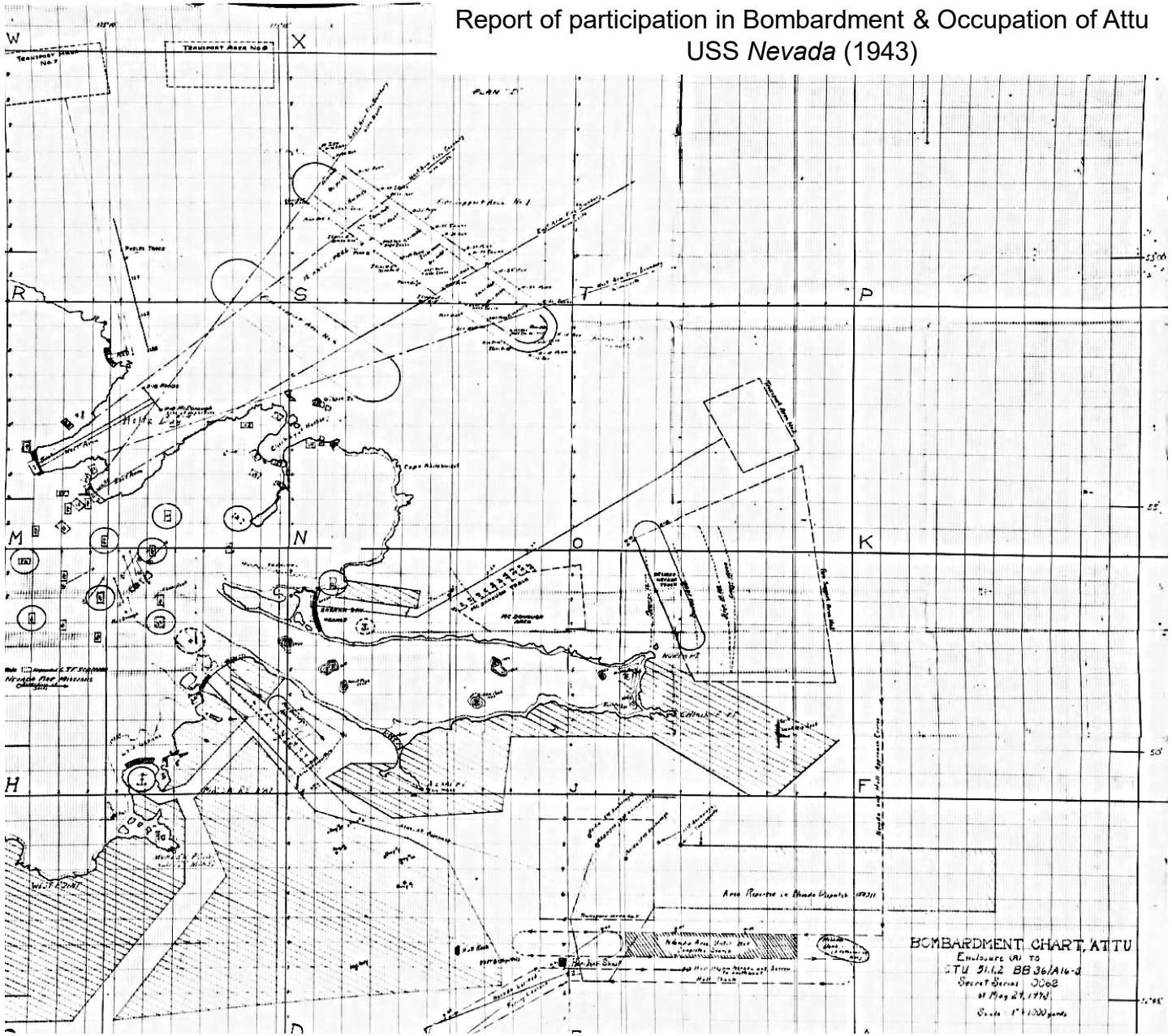
The wreck charted in lat. 52° 58.9' long. 173° 14.52' falling in depths of 46 fms. originates with bp. 38543 (1943). This wreck should be retained.

A Japanese ship lies 740 meters east of signal Ball in 4½ fathoms, ¾ feet of it is visible above the water.

(9) The wreck in lat. 52° 51.37', long. 173° 13.68' has not been charted.

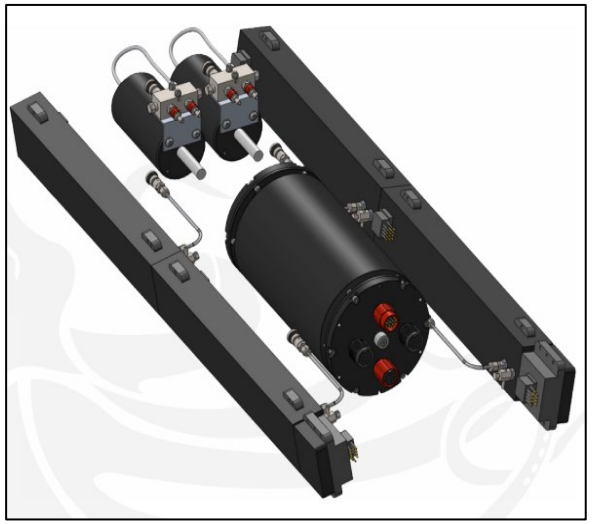
Wreck of "Dellwood"- A yellow marker buoy is shown at wreck of the S.S. "Dellwood" in Lat. 52° 46'1 Long. 173° 18'5. A boom of the ship shows above the surface. Marker buoy removed June 29, 1944 Boom gone

Report of participation in Bombardment & Occupation of Attu
USS *Nevada* (1943)

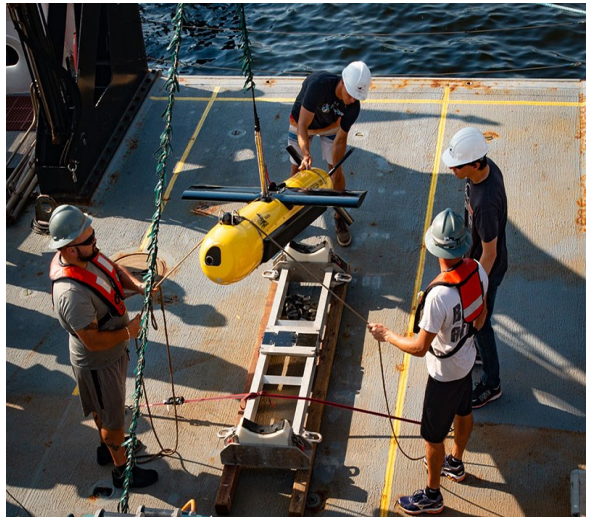


Excerpts from Hydrographic Survey reports by United States Coast and Geodetic Survey (1943-1947)

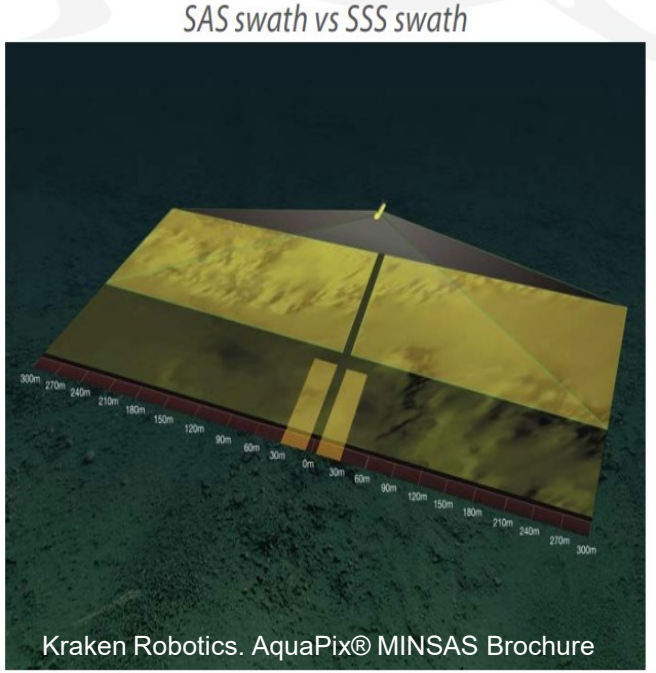
Synthetic Aperture Sonar (SAS)

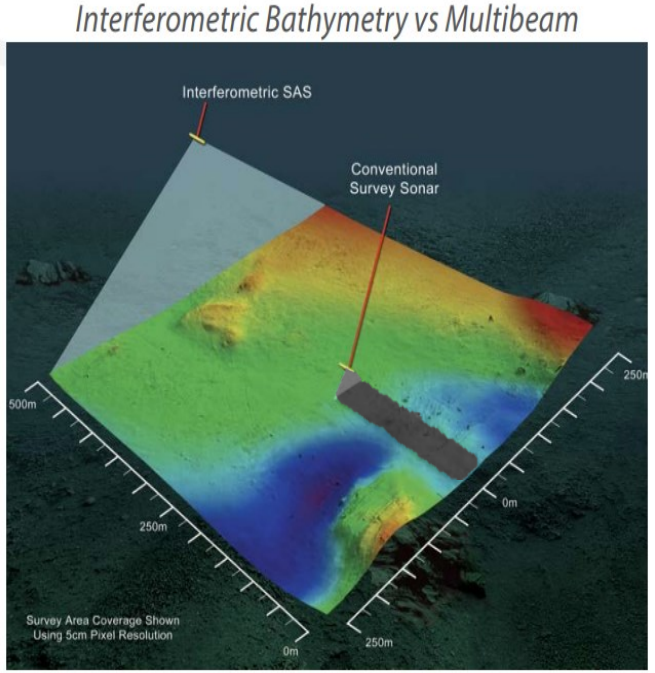


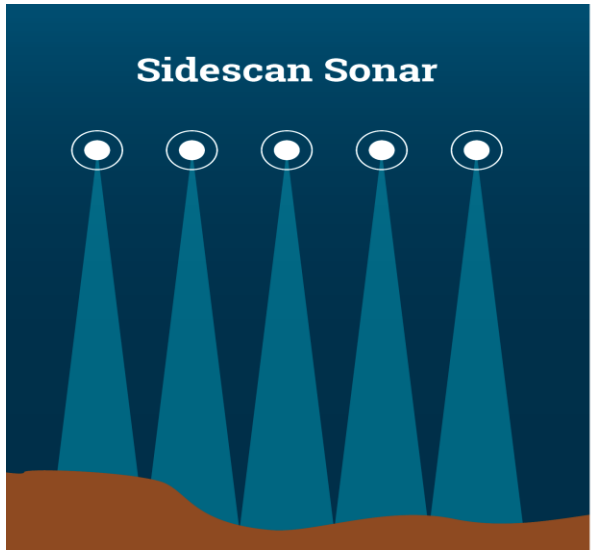
Kraken Robotics. AquaPix® MINSAS Brochure

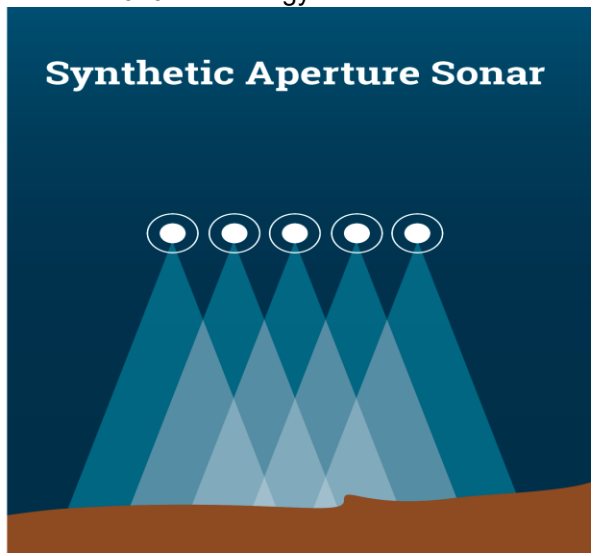


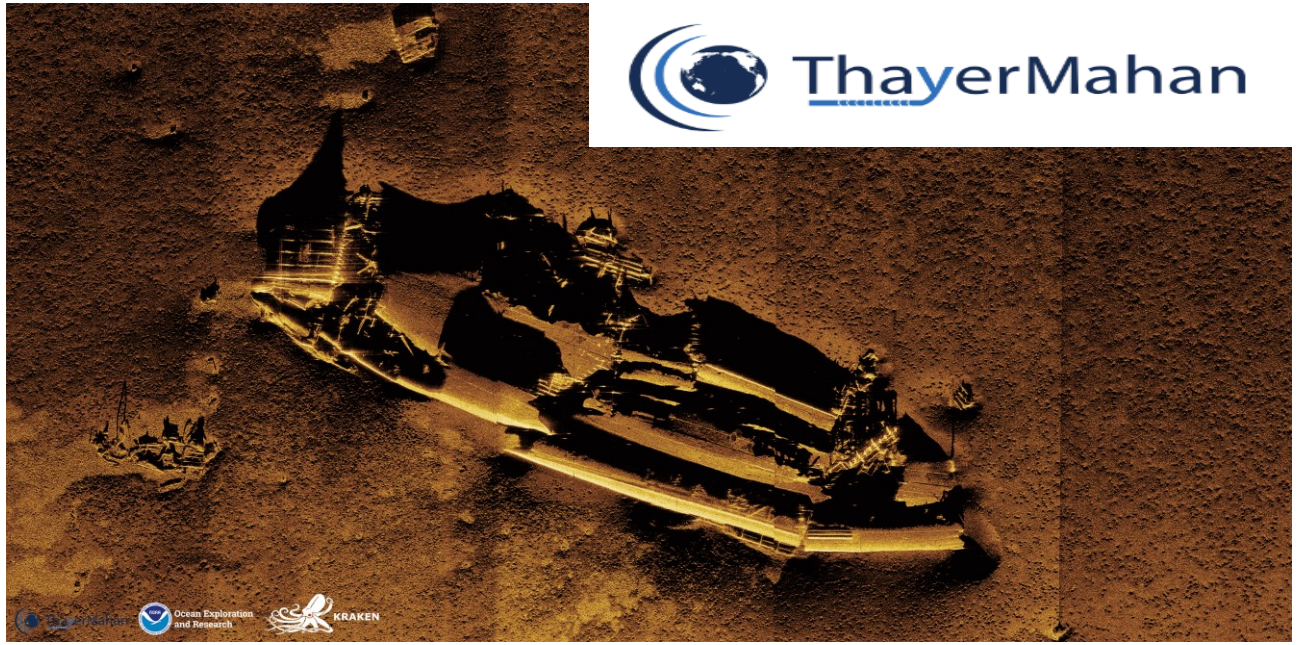
NOAA Office of Ocean Exploration and Research, 2019 Technology Demonstration.





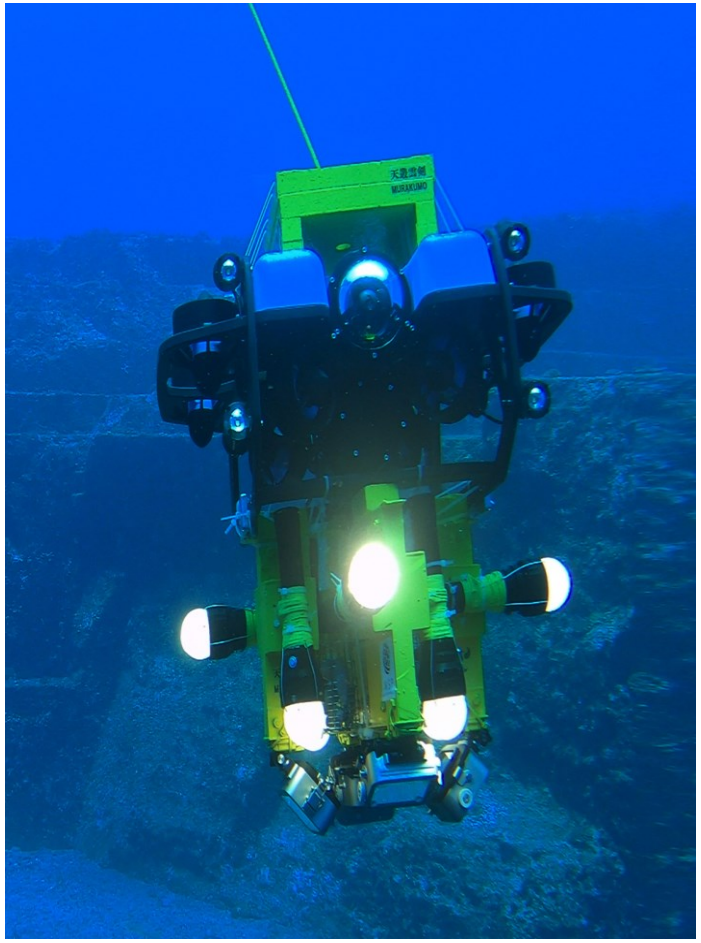




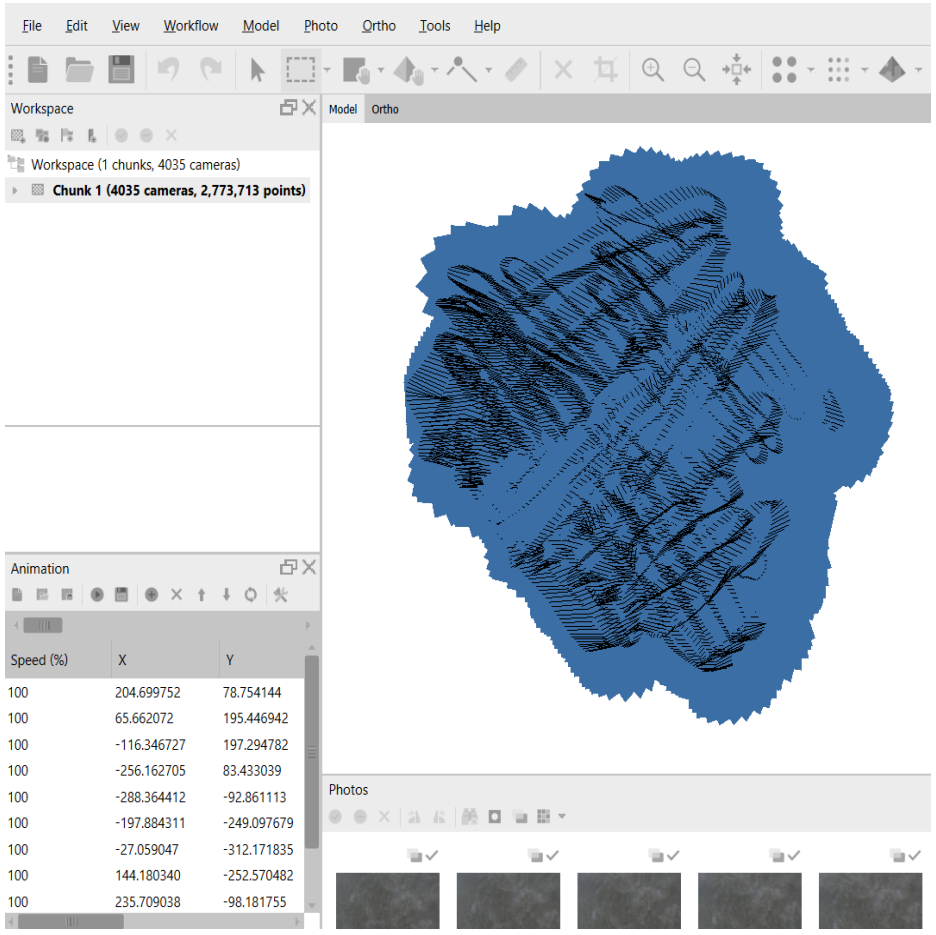


Images courtesy of NOAA.https://oceanexplorer.noaa.gov/technology/sonar/sas.html

3D Photogrammetry



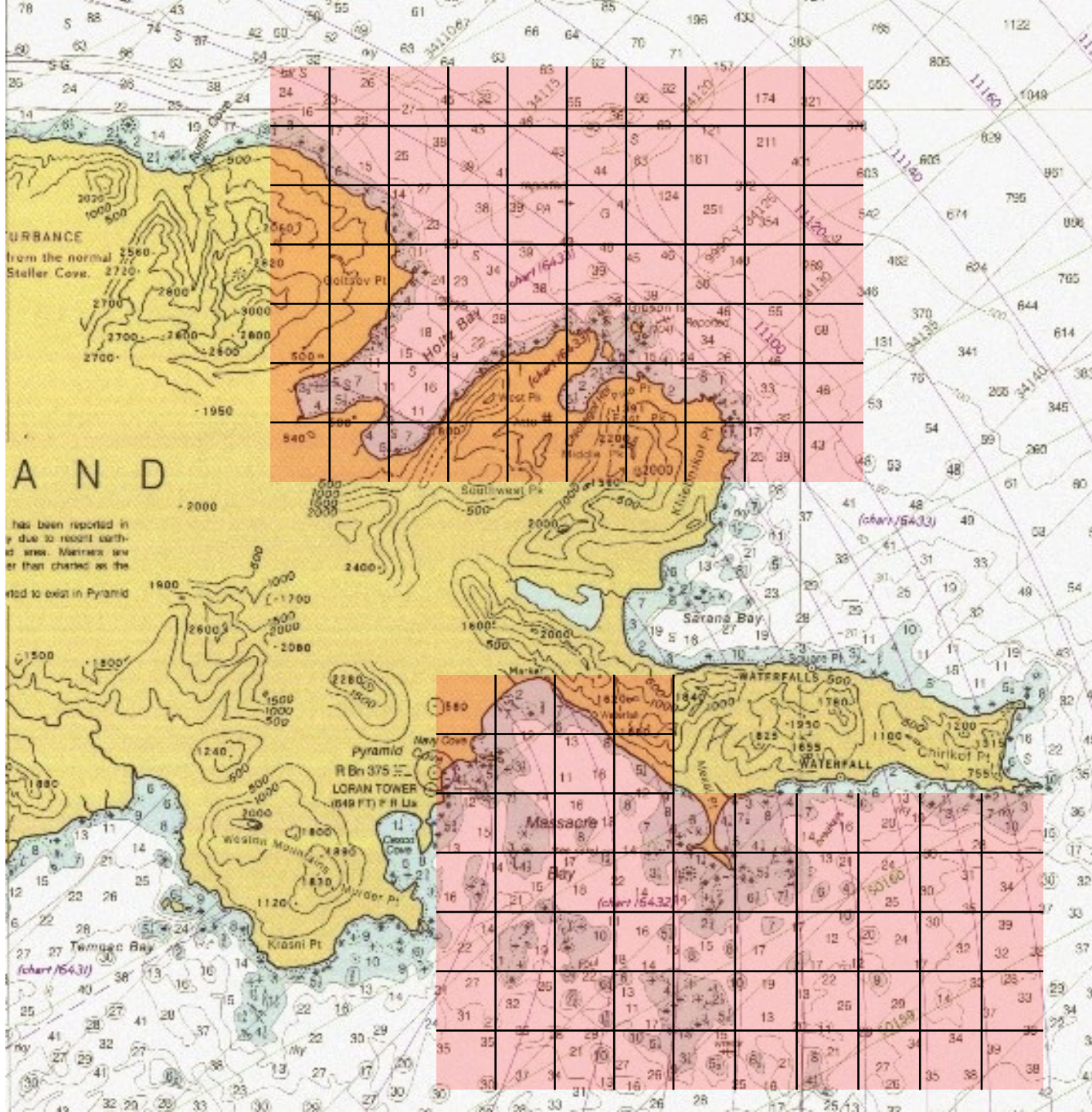
World Scanning Project's underwater 3D scanning robot, MURAKUMO®



Agisoft Metashape 1.8.4 Interface. Original Work by the Author.

The Data

- Locational data paired with imagery to create a geospatial record of underwater cultural heritage
- Useful for archaeological research, public outreach, and follow up studies
- Data may also be useful for biologists studying the Aleutian benthic environment and assessing substrate colonization by sponges and corals.
- Assess the feasibility of artificial reefs in supporting coral and sponge diversity.
- Data can be made available for others to use



NOAA Navigational Chart 16421

Thank you to our project partners

And

The Conference Organizers!

Contact:
bushd16@students.ecu.edu

Ralph Gilmore Photo Album,
University of Alaska,
Anchorage Archives