## Arctic & North Pacific Ocean Regional Center

# 2023 North Pacific Update Juliet Kinney, Paul Johnson, Larry Mayer, Sara Cardigos, Michael Bogonko

Center for Coastal and Ocean Mapping, University of New Hampshire

South-West Pacific Regional Mapping Community
Meeting

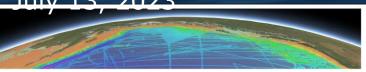
July 13, 2023















### We want your Data!

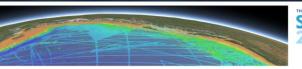
Please let us know about more data and portals! Regional groups to be in touch with.





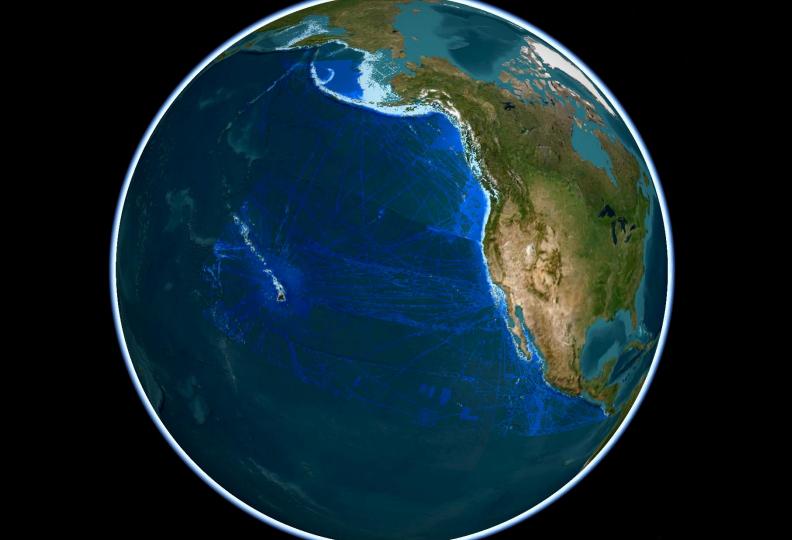




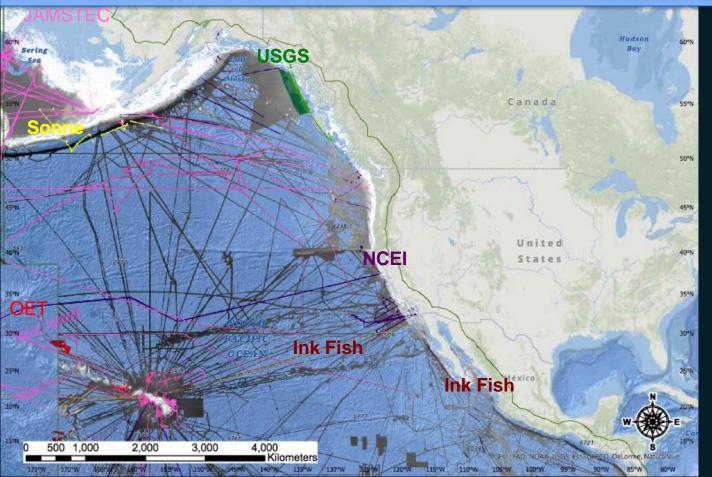








### North Pacific 2023 Multibeam



#### **Multibeam Surveys:**

- NCEI: 36 Cruises
- Nautilus/Ocean
   Exploration
   Trust: 8 surveys
   (25 grids
   including
   transits)
- JAMSTEC: 64 Grids

#### **Additional New Multibeam Sources:**

USGS Queen Charlotte Fault Grids: (2022 publication), composite of Canadian NRC & NOAA/USGS grids.

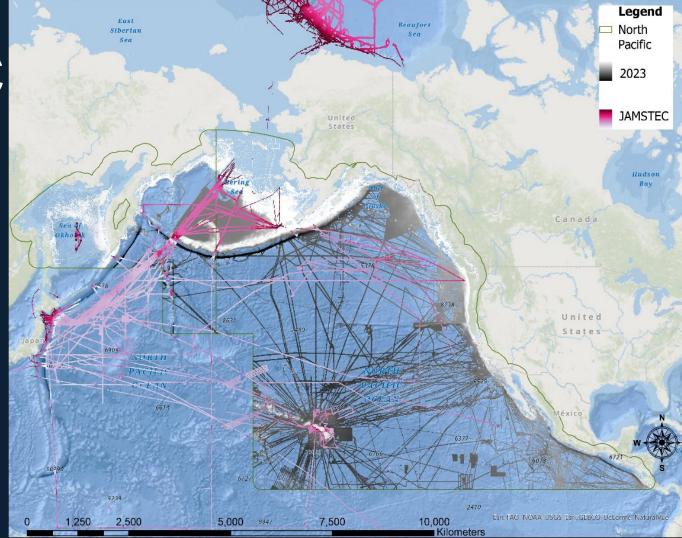
**USGS/NPS** Glacier Bay Data 2001

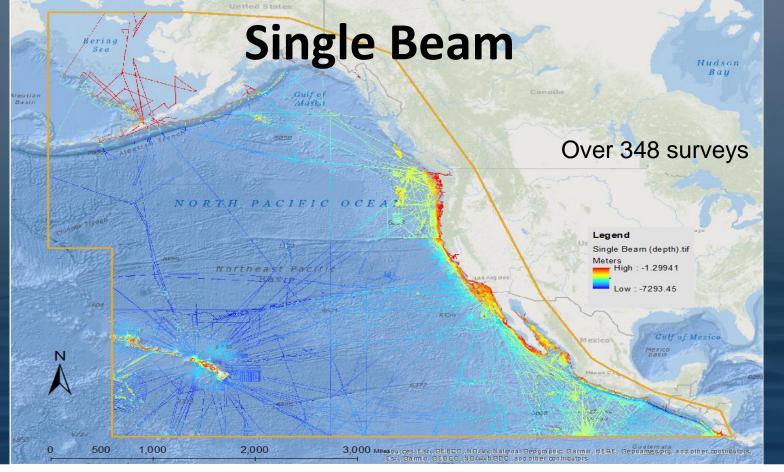
Aleutian Trench Data: Wölfl, Anne-Cathrin; Kess, Kevin; BrandtMultibeam bathymetry processed data (Kongsberg EM 122 entire dataset) of, Angelika (2022), RV SONNE Cruise SO293

NWHI Nihoa Drix 2022: CCOM Grid

InkFish: Dagon

# JAMSTEC data!





















- TID 11: Multibeam
- TID 10: Singlebeam

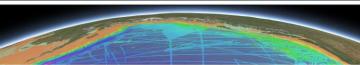


















### Planning Data Collection & Visualization















### UNH/CCOM-JHC ESRI GIS Portal

- UNH/CCOM-JHC has been serving data through a combinations of ArcGIS Server and Portal since 2012
- https://gis.ccom.unh.edu (new 2023)
- https://maps.ccom.unh.edu
- Used for both internal services and external services
- Hosts wide variety of map services and web applications including
  - Extended Continental Shelf
  - Multibeam Planning Tools
  - Gulf of Maine



#### Welcome!

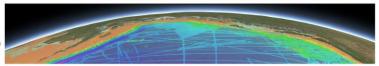
The Center for Coastal and Ocean Mapping at the University of New Hampshire was founded with the objective of developing tools and offering training that would help NOAA and others to meet the challenges posed by the rapid transition from the sparse measurements of depth offered by traditional sounding techniques to the massive amounts of data collected by the new generation of multibeam echo sounders. The Center has since expanded its research objectives and now encompasses a broad range of ocean mapping technologies and applications, but at its roots, the Center continues to serve NOAA and the U.S. through the development of tools and approaches that support safe navigation, increase the efficiency of surveying, and offer a range of value-added ocean mapping products.











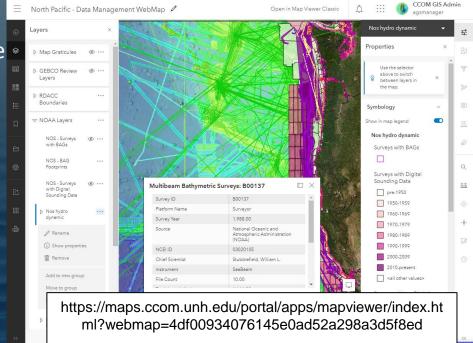






# PLANNING CCOM MAPS DATA COVERAGE

- Internally and externally available
- Used for managing and exploring available datasets
- Many layers available including:
  - GEBCO Grid & TID
  - DCDB Map Services
  - NOS BAGs, NOS Surveys
  - Multibeam Tracklines
  - Singlebeam Tracklines
  - NOAA Gap Analysis
  - and more..
  - Interactive Plan sharing still in development

















## Regional Interactive Planning Sites we use:

### U.S. Mapping Coordination Site

https://iocm.noaa.gov/planning/coordination.html

https://legacy.seasketch.org/#projecthomepage/5272840f6ec5f42d210016e

4/layers

https://www.boem.gov/environment/regional-ocean-partnerships

Other contacts:

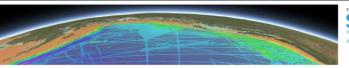
https://www.gebco.net/about\_us/committees\_and\_groups/scrum/mapping\_projects/





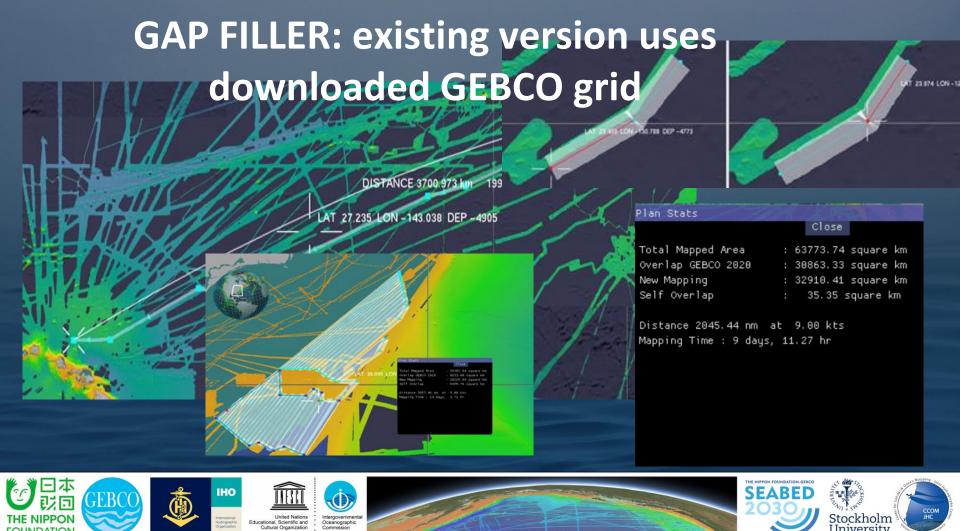


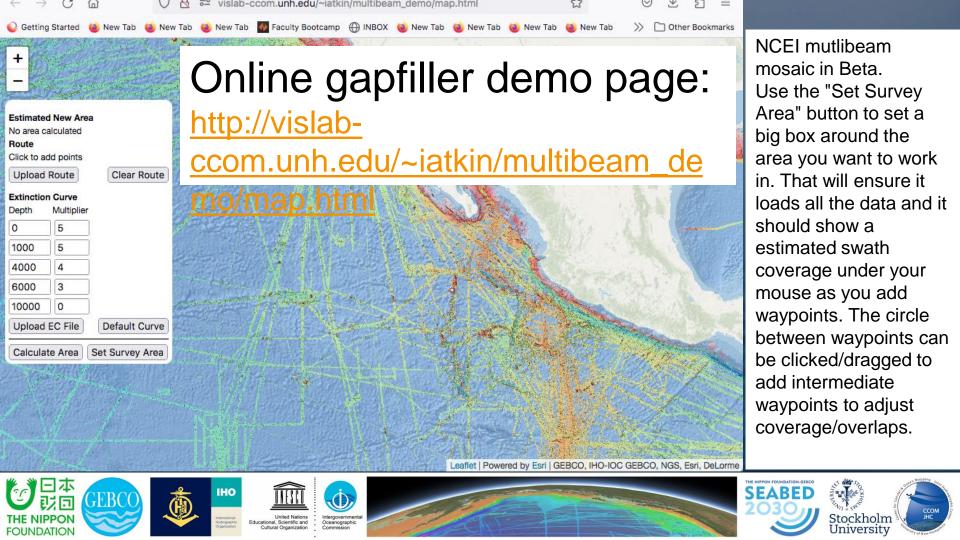














Vis Lab Project:
(Tom Butkiewicz and Ilya Atkin)
working on integrating the web service layers updated more frequently

For More Information
Contact: Dr. Colin Ware
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atkin@ccom.unh.edu















### Thanks!









