

6<sup>th</sup> East Asia Hydrographic  
Commission  
Steering Committee Meeting  
National Report by  
United States of America



International Hydrograph Organization  
Organisation Hydrographique Internationale

East Asia Hydrographic Commission  
Commission Hydrographique de l'Asie l'est

# U.S. Hydrographic Leadership

## • NOAA

- Director, Office of Coast Survey
  - **Rear Admiral Shep Smith**
- Deputy Director, Office of Coast Survey
  - **Katie Ries**



## • NGA

- Senior GEOINT Authority-Maritime
  - **John Lowell**
- Director, Maritime Office
  - **Captain Richard Kennedy (replaced Brian Connon)**



## • NAVY

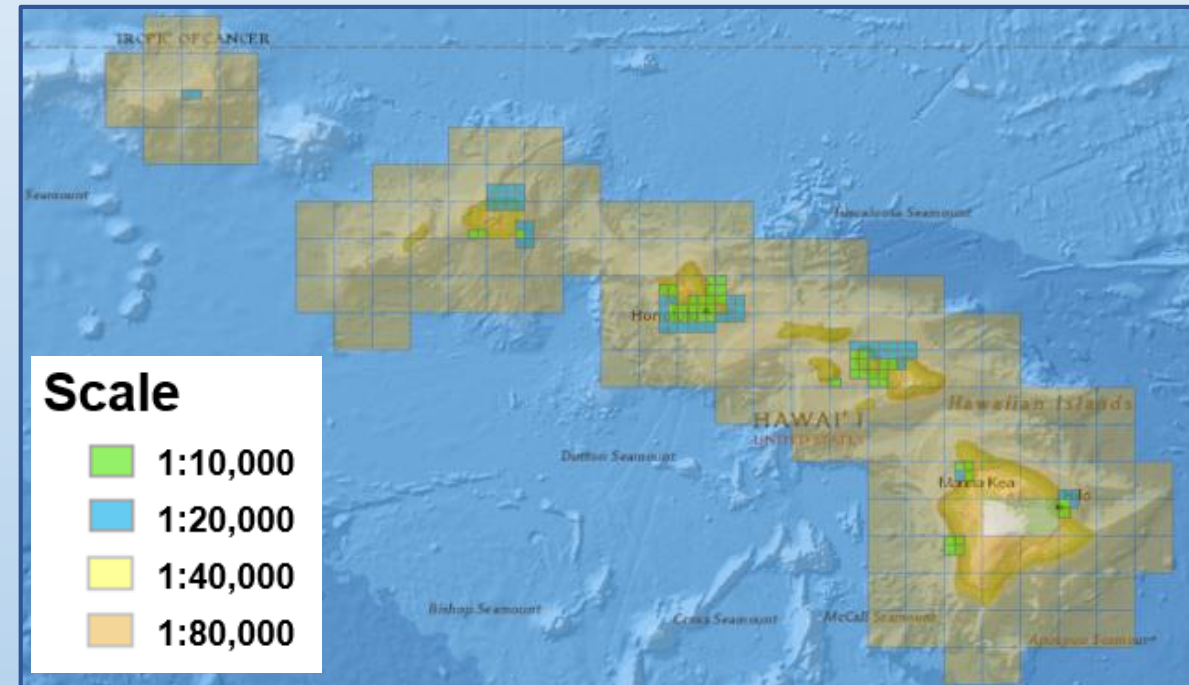
- Commander Naval Meteorological and Oceanography Command (CNMOC)  
Oceanographer of the Navy, Hydrographer of the Navy, and Navigator of the Navy
  - **Rear Admiral John Okon**
- Deputy Hydrographer of the Navy (Acting)
  - **Mathew Borbash (replaced Stan Harvey)**



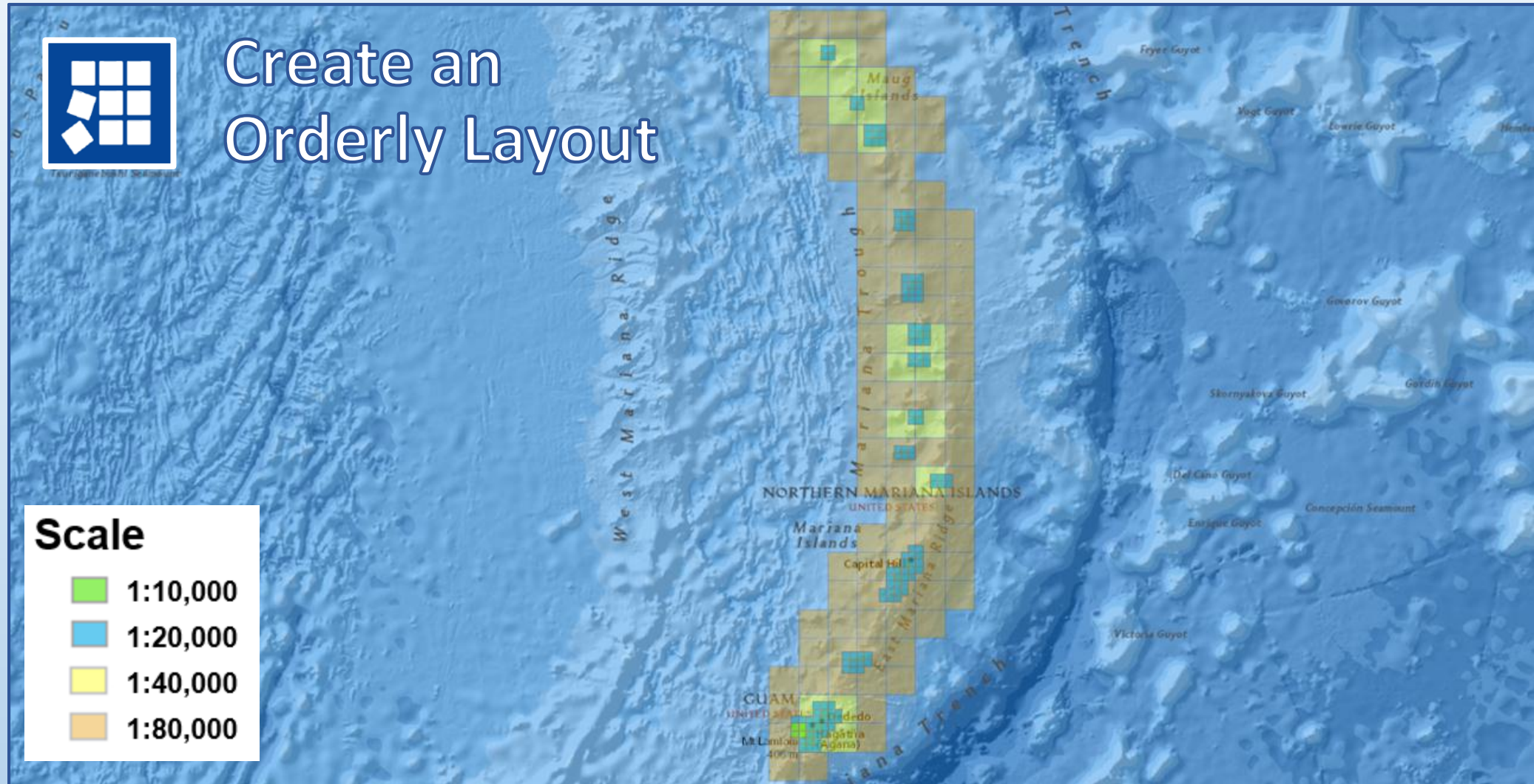
# New Directions

- U.S. Charting Plan – an ENC product rationalization effort and data clean up effort to improve U.S. nautical chart products, coverage and distribution
  - Within EAHC; U.S produces complete suite of nautical products over Guam, Northern Marianas, Wake island
- U.S. produces ENCs in areas where the U.S. functions as the Primary Charting Authority
  - Within the EAHC; Palau, FSM and Marshal Islands building ENC portfolio

Create an  
Orderly Layout

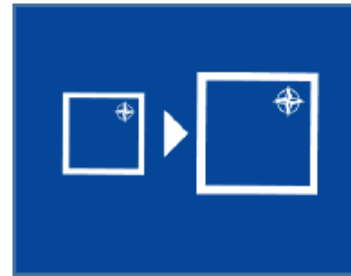


# U.S. Charting Plan - Products

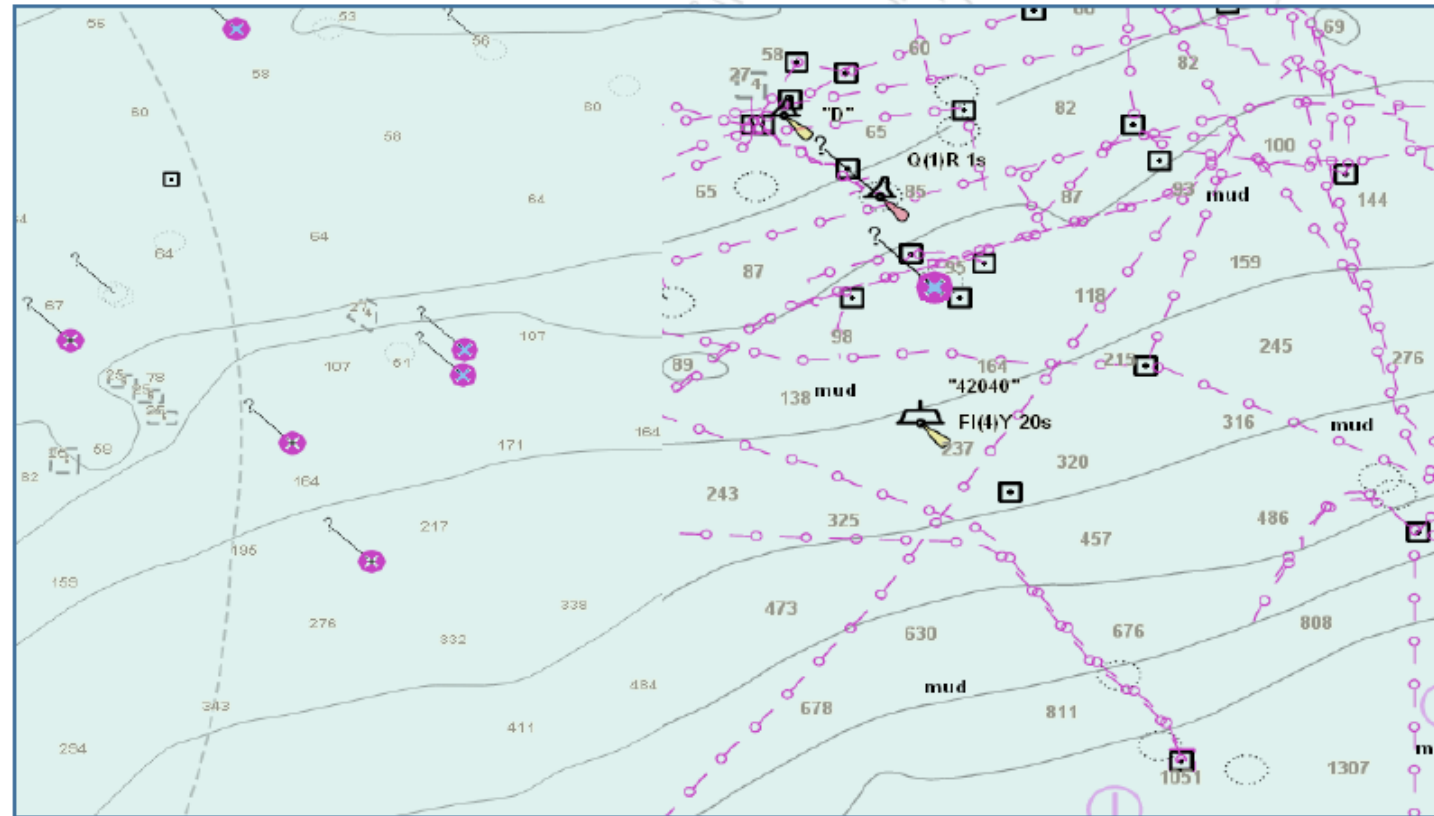




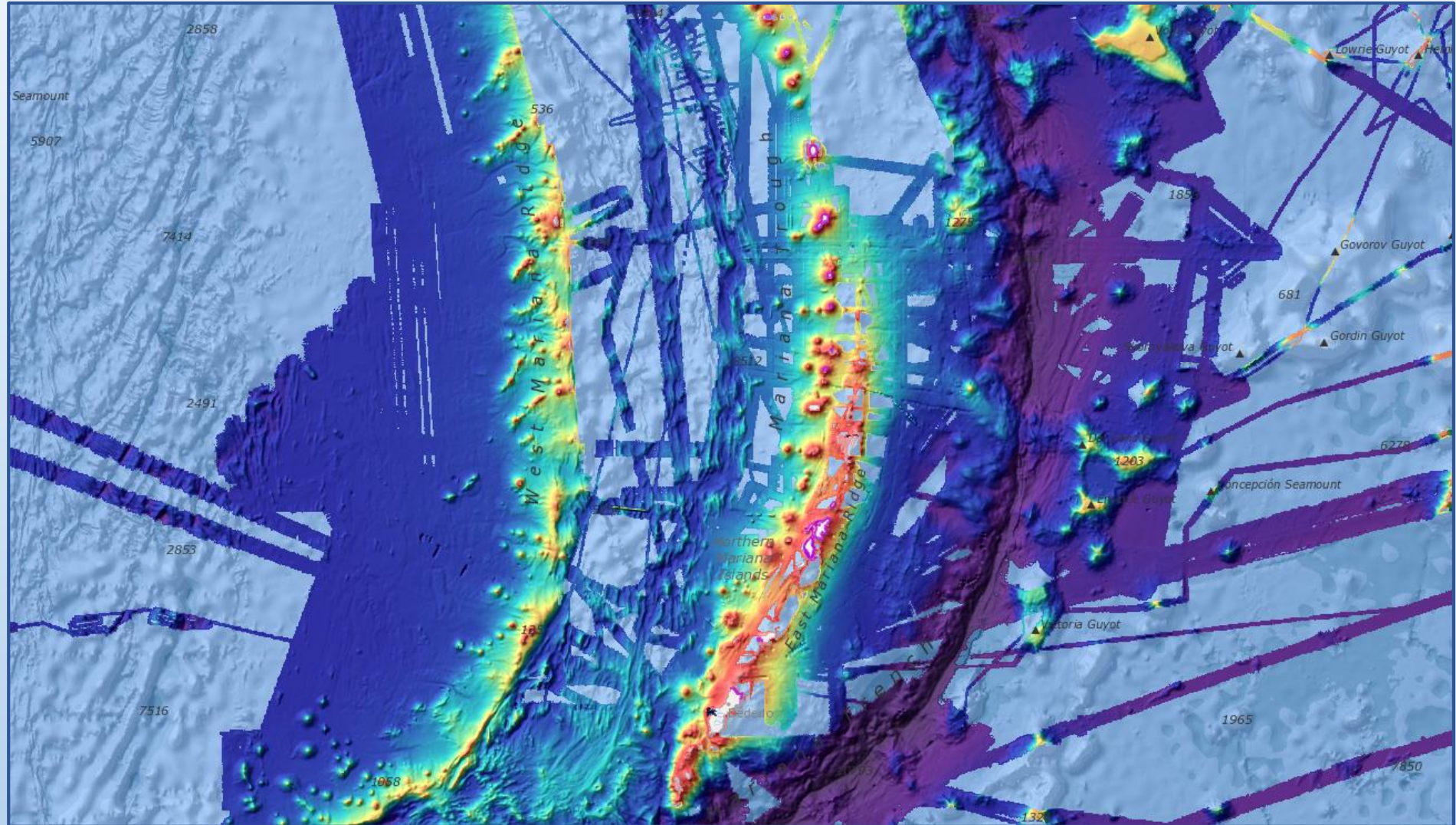
# U.S. Charting Plan - Data



## Standardize Scales

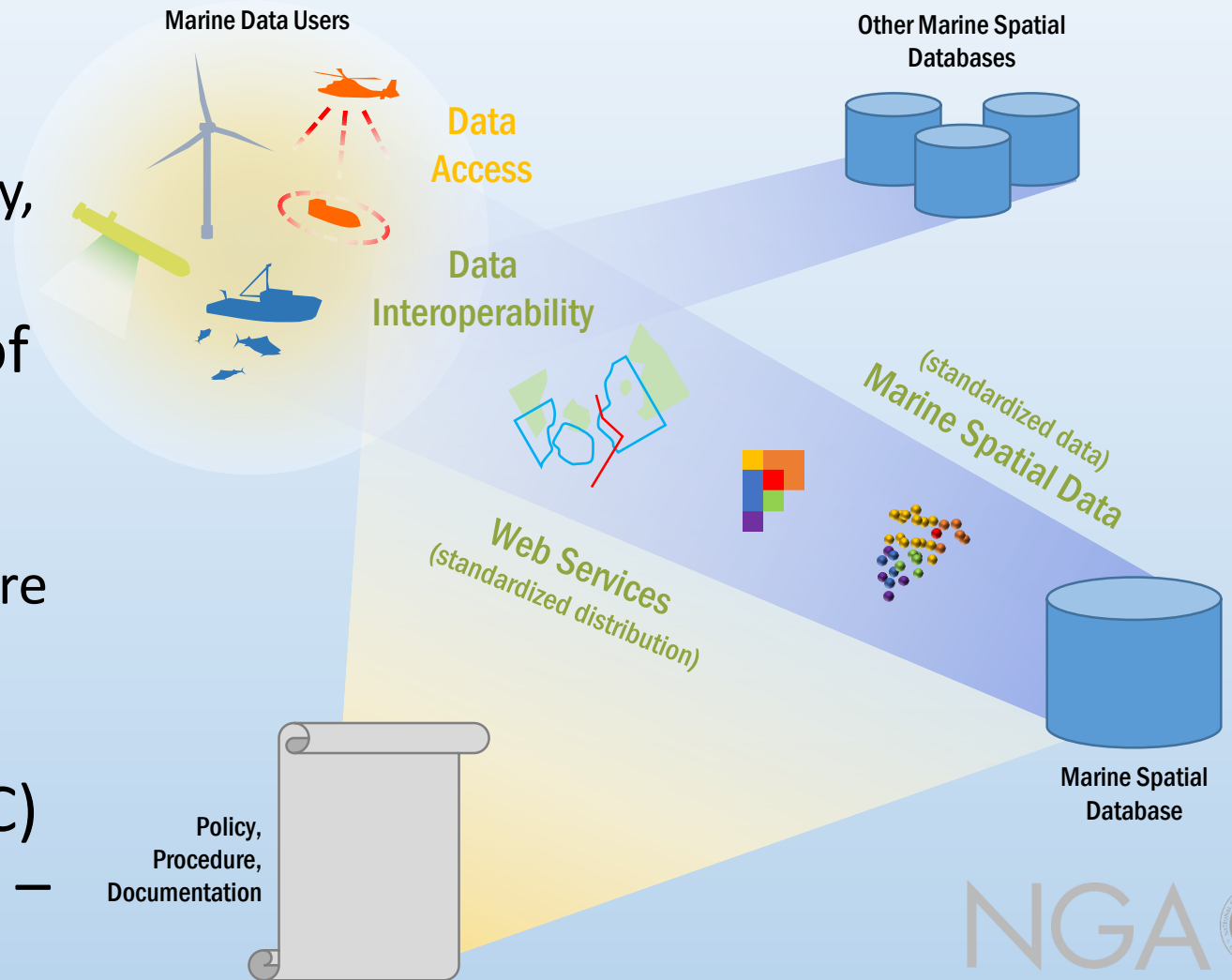


# Best Available Data



# Marine Spatial Data Infrastructure

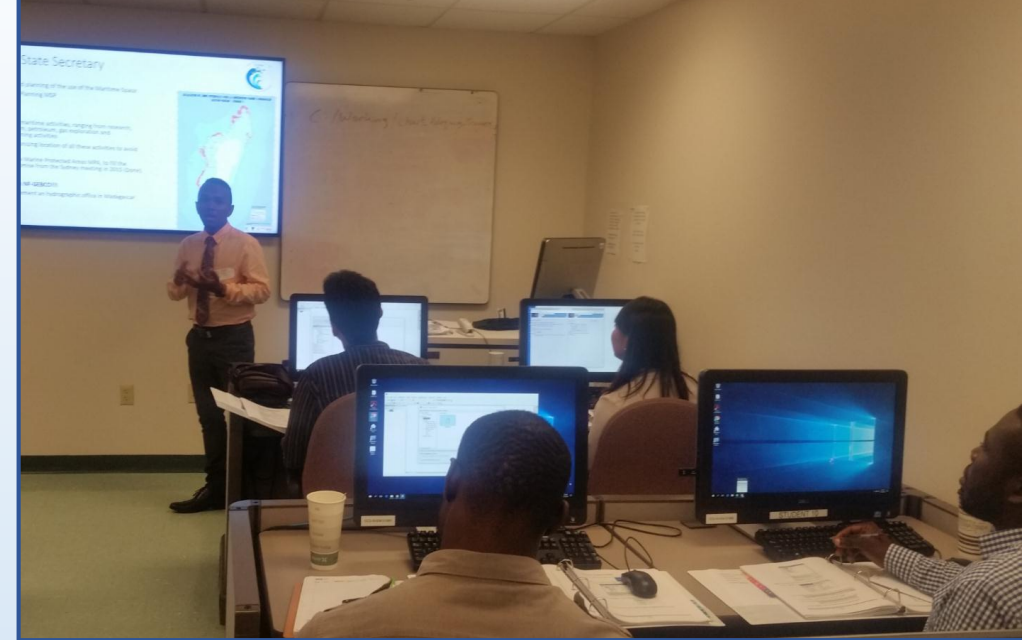
- U.S. Open Data Policy
  - Principles: Discoverable, Accessible, Described, Reusable, Complete, Timely, Managed Post Release
- Supporting non-traditional users of nautical chart information – ENC Direct to GIS
  - ENC and other derived theme layers are distributed via OGC Compliant Web Services
- Open Geospatial Consortium (OGC) Marine Spatial Data Infrastructure – Concept Development Study





# Capacity Building

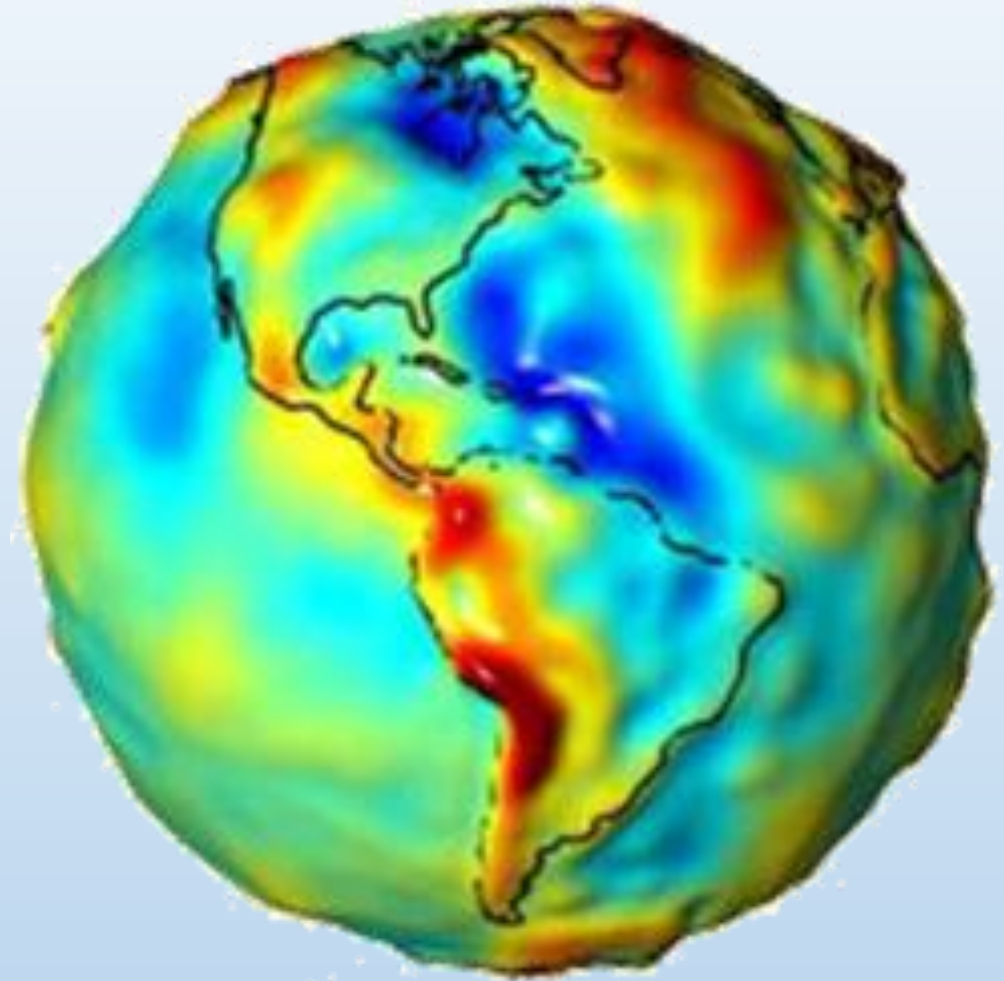
- U.S. supports the IHO Maritime Safety Information training courses
  - NGA - S-8 Category-B Competence for Nautical Cartography
  - NOAA – S-8 Category-B Competence for Nautical Cartography, Chart Adequacy Workshop
  - U.S. Navy – S-5 Category-B International Hydrographic Management and engineering Program
  - S-5 Category A
    - University of Southern Mississippi
    - University of New Hampshire





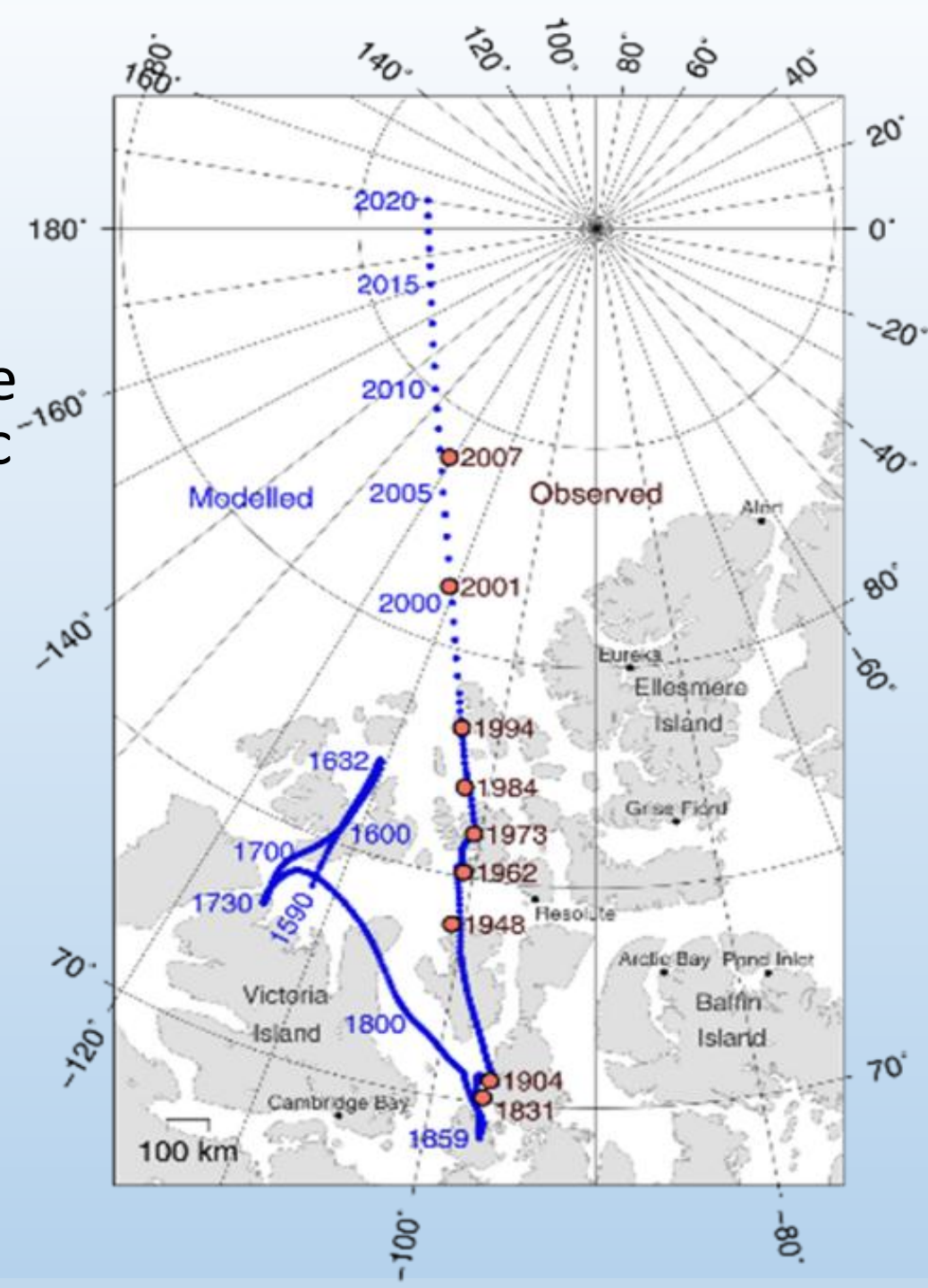
# Geodesy Update

- New Earth Gravity Model (EGM)
  - in 2020, important for MSL and WGS
  - The **Earth Gravity Model** is updated to reflect the variance in gravity based on the uneven mass distributions found across the irregular shaped Earth



# Geodesy Update

- The World Magnetic Model (WMM) helps define the difference between true north and magnetic north, and predicts the change over time.
- This correction is required to safely navigate across the Earth surface.
- Out of cycle version of the WMM was released in February 4, 2019 due to increasing inaccuracies
- Current plan to is to release the regular 5 year release of the WMM in 2020 on schedule





# GEBCO Seabed 2030

<https://seabed2030.gebco.net/>

[https://maps.ngdc.noaa.gov/viewers/iho\\_dcdb/](https://maps.ngdc.noaa.gov/viewers/iho_dcdb/)

- Bring together available bathymetric data to produce the definitive map of the world ocean floor
- Encourage data collectors and data managers of governmental, academic and private interests to work together to improve the quality of publicly available data and grid of the ocean floor.
- Create partnerships and cooperation between Interested parties
- Empower sustainable ocean management

