



United States of America



ROPME Sea Area Hydrographic Commission (RSAHC)

National Oceanic and Atmospheric Administration

Naval Oceanographic Office

National Geospatial-Intelligence Agency-Maritime Office

February 2017



U.S. Hydrographic Leadership

- **NOAA**

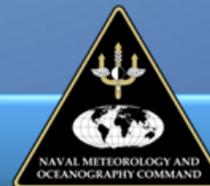
- Director of the Office of Coast Survey, and U.S. National Hydrographer
 - **Rear Admiral Shep Smith**
- Office of Coast Survey, chief of the Marine Chart Division
 - **John Nyberg**

- **NGA**

- Chief Hydrographer
 - **John Lowell**
- Director Maritime Safety Office
 - **Captain Brian Conon**

- **Navy**

- Commander Naval Meteorological and Oceanography Command (CNMOC) and Hydrographer of the Navy and Navigator of the Navy
 - **Rear Admiral Timothy Gallaudet**
- Deputy Hydrographer of the Navy
 - **Stanley Harvey**

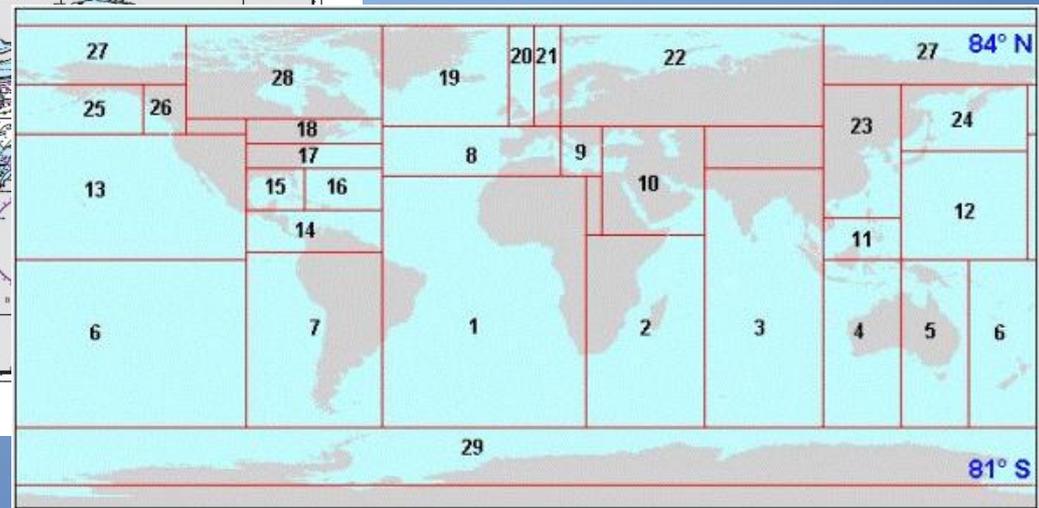
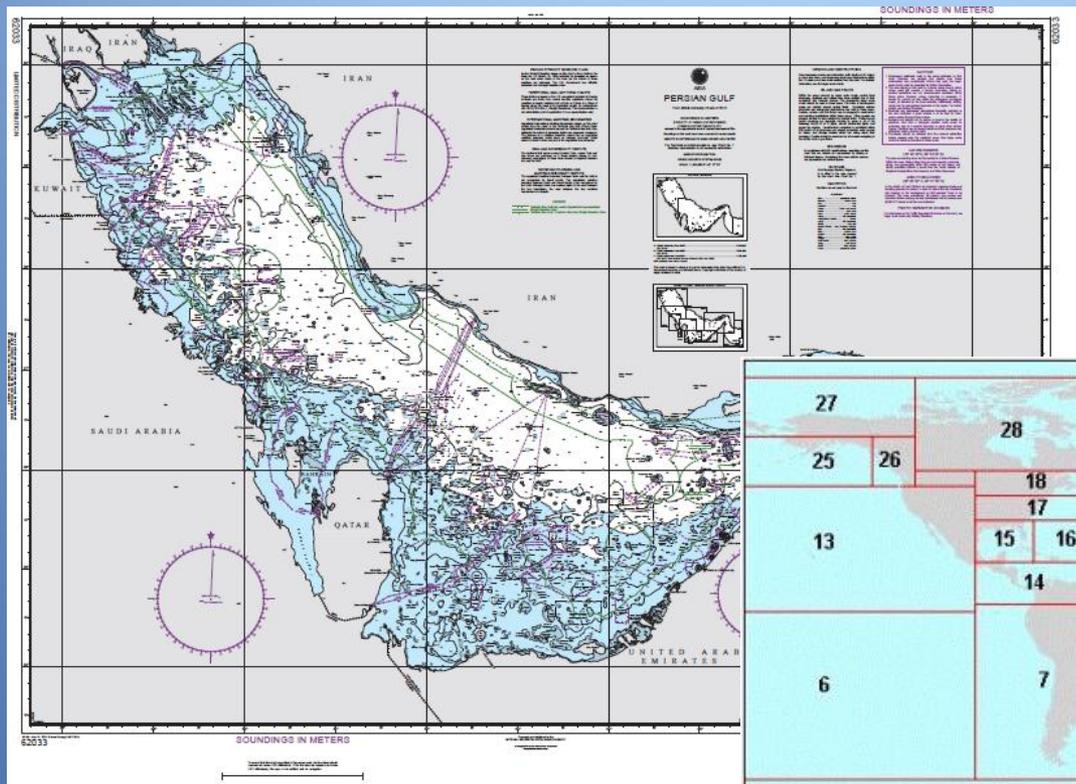


Airborne Coastal Survey (ACS) effort Bahrain 2016

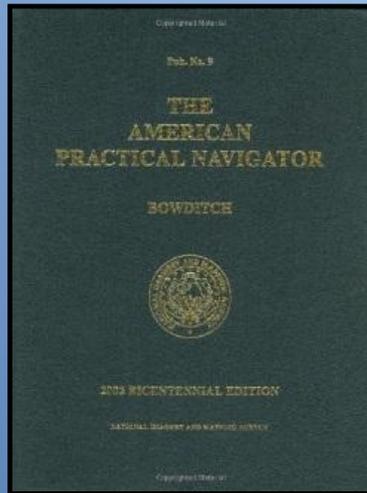
- **~31 TB raw data:**
- **19.3 TB lidar**
- **5.6 TB OptechT4800 camera**
- **6.3 TB ItresCASI 1500**
- **~15 TB processed lidar and camera**
 - **16,555 Nm (30660 km) linear on-line logged data**
 - **2592 Nm² non-unique coverage**
 - **OVERALL of ~940 Nm² total area:**
- **98% (~921 Nm²) one overflight**
- **56% (~526 Nm²) 2+ overflights**
- **Area 1: 86% and 0%**
- **Area 2: 100% and 15% Area 3: 100% and 99% Area 4: 100% and 84%**



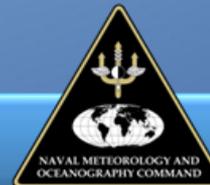
Nautical products and data in RSAHC



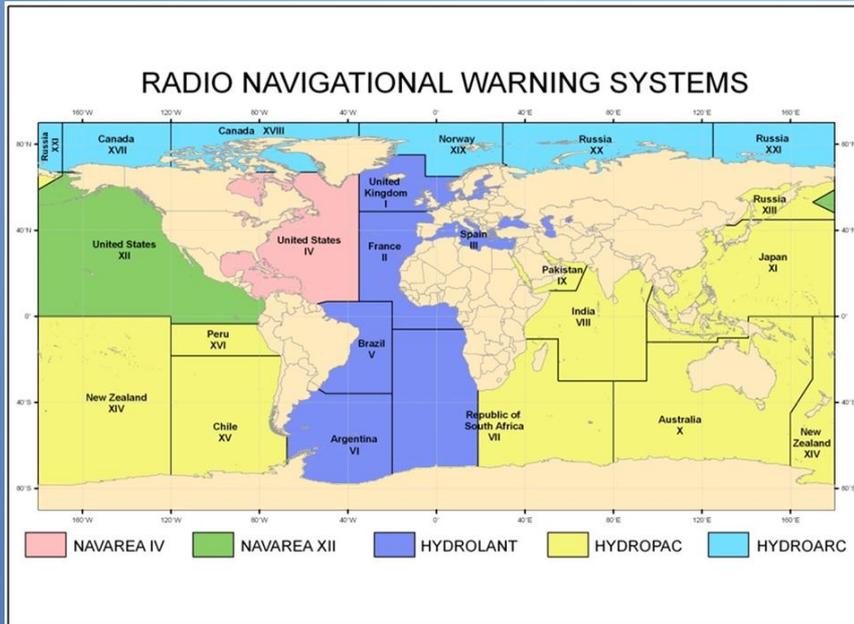
New Edition of *The American Practical Navigator*



- New edition available mid-2017
- Maritime Industry wide compilation effort led by NGA Maritime Office
- Will be available in PDF and HTML thru the Maritime portal



Marine Safety Information



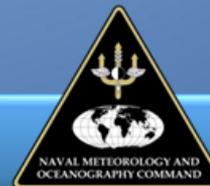
- Please pass MSI to navsafety@nga.mil as well as NAVAREA IX
- US Navy vessels will be aware of S&R
- Not all Navarea IX reach NGA due to relay
- HYDROPAC email delivery available to all in near future



SeaBed 2030

USA requests RSAHC MS

- Note the report
- Participate as active members of the GEBCO Seabed 2030 project
- Provide bathymetric data to the IHO DCDB to support mapping ocean areas at high resolution
- Provide shallow water bathymetric data from Electronic Navigational Charts (ENC) to the IHO DCDB;
- Develop strategies to collect bathymetric data in ocean areas
- Take action as seen appropriate.



IHO Working group

Working groups since October 2015	Date
MSDI Drafting Group	February 2016
WWNWS14	March 2016
WEND	March 2016
DPSWG11	March 2016
ENCWG1	March 2016
S100WG1	March 2016
NIOHC	March 2016
NIPWG2	March 2016
TWCWG1	April 2016
NCWG2	April 2016
DQWG11	May 2016
CBSC14	May 2016
IRCC8	May 2016
HCA	June 2016
WWNWS8	September 2016

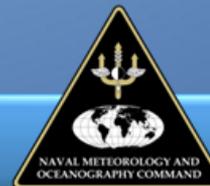
Upcoming include

- IHO Assembly
- NIOHC
- MBSHC



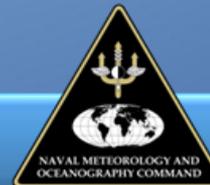
Marine Safety Data Infrastructure (MSDI)

- Framework thru which the next generation HO will be built around
- Governance- common reference data
- Content-wider use of hydrographic data
- Technology
- Standards



Marine Safety Data Infrastructure (MSDI)

- Reduce data acquisition duplication (i.e., survey once, use many times)
- Cost savings, effective use of funds
- Facilitates cooperation with other information providers
- Broader customer base (non-SoN)
- Improved decision making



Thank you

