



# United States of America



## Meso-American and Caribbean Sea Hydrographic Commission

*National Oceanic and Atmospheric Administration  
Naval Meteorology and Oceanography Command  
National Geospatial-Intelligence Agency*

**Rear Admiral Gerd F. Glang, NOAA**

**December 11, 2013**

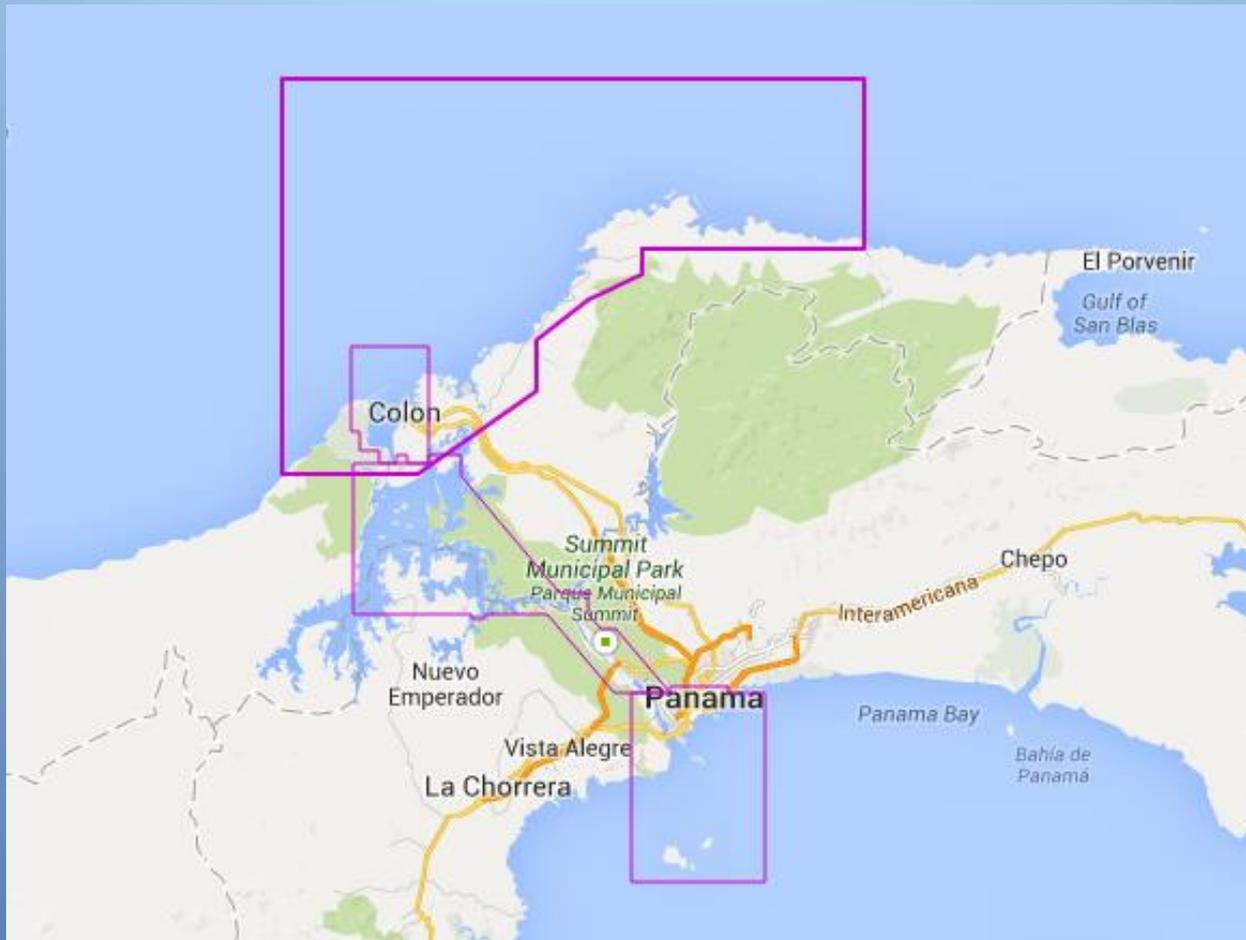


# US Hydrographic Leadership Changes

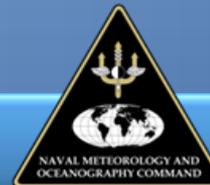
- National Geospatial Intelligence Agency (NGA)
  - As of February 2013, Captain John Lowell (NOAA, retired) assumed the position of NGA Hydrographer



# ENCs in the MACHC Region



	Total # ENCs	New Editions 2013
NOAA ENCs	189	92
NGA ENCs	5	5



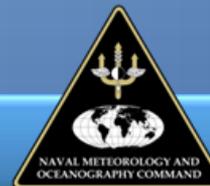
# U.S. Hydrography in the Region 2013-2014

U.S Surveys		
Location	Agency	Dates
Approaches to Mississippi Sound, MS	NOAA	2013
Approaches to Barataria Bay, LA	NOAA	2013
Louisiana Coast	NOAA	2013
México	U.S. Navy	2012
Panamá	U.S. Navy	2013
Honduras	U.S. Navy	2014
Guatemala	U.S. Navy	2014



# U.S. INT Chart Production

INT No.	Nat No.	Producing Agency	Title	Projected Availability
4015		NOAA		FY2016
4016	11006	NOAA	Gulf Coast - Key West to Mississippi River	FY2014
4017		NOAA		FY2016
4021	26005	NGA	Eastern Cuba to Puerto Rico	FY2013
4145	11300	NOAA	Galveston to Rio Grande	FY2015
4146	11340	NOAA	Mississippi River to Galveston	FY2015
4147	11360	NOAA	Cape St. George to Mississippi Passes	FY2014
4149		NOAA		FY2017
4178	25640	NOAA	Puerto Rico and Virgin Islands	FY2017



# NOAA Ends Printing of Paper Lithographic Nautical Charts

- Effective April 13, 2014
  - US Government will no longer print and stock lithographic paper nautical charts
  - US Coast Pilot<sup>®</sup>
- Print-on-Demand (POD)
  - POD partners provide paper nautical charts & pubs
- Other products
  - NOAA RNC<sup>®</sup>, NOAA ENC<sup>®</sup>, PDF Charts

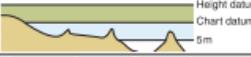
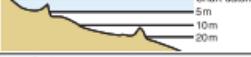
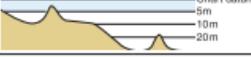


# Portable Document Format (PDF) Nautical Charts

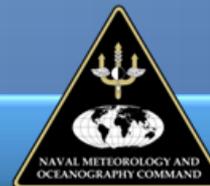
- Updated Weekly
- Available Immediately
- Enhanced Readability
- Printable
- Easy to view
- High resolution
- Available for a three-month trial period, from October 22, 2013, to January 22, 2014.



# U.S. Chart No. 1, Edition 12 (2013)

K Rocks, Wrecks, Obstructions, Aquaculture							
No.	INT	Description	NOAA	NGA	Other NGA	ECDIS	
13	 	Underwater rock of unknown depth, dangerous to surface navigation				 	Dangerous underwater rock of uncertain depth Isolated danger of depth less than the safety contour
14.1	 	Underwater rock of known depth; inside the corresponding depth area	12 Rk	27 Rk 21 R		 	Underwater hazard with a depth of 20 meters or less Underwater hazard with depth greater than 20 meters
14.2	 	Underwater rock of known depth; outside the corresponding depth area, dangerous to surface navigation		 			Isolated danger of depth less than the safety contour
15	 	Underwater rock of known depth, not dangerous to surface navigation	35 Rk		35 R + (35)	 	Underwater hazard with a depth of 20 meters or less Underwater hazard with depth greater than 20 meters

- 1<sup>st</sup> chart 1 to show paper chart (INT1) symbols side-by-side with the corresponding ECDIS (S-52) symbols
- Download PDF for free at: <http://www.nauticalcharts.noaa.gov/mcd/chart1/ChartNo1.pdf>
- Paper copies can be ordered from one of NOAA's four publishing partners listed at: <http://www.nauticalcharts.noaa.gov/mcd/chartno1.htm>.



# US Coast Pilot® and Sailing Directions



Domestic waters



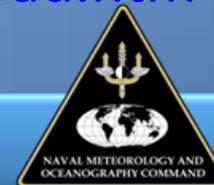
Non-US waters



Publication	Edition Date
<i>Sailing Directions 120</i> – Pacific Ocean and Southeast Asia (Planning)	2013 Edition
<i>Sailing Directions 140</i> – North Atlantic Ocean and Adjacent Seas (Planning)	2013 Edition
<i>Sailing Directions 124</i> – East Coast of South America (Enroute)	2013 Edition
<i>Sailing Directions 147</i> – Caribbean Vol. 1 (Enroute)	2013 Edition
<i>Sailing Directions 148</i> – Caribbean Vol. 2 (Enroute)	2013 Edition
<i>Sailing Directions 153</i> – West Coast of Mexico and South America (Enroute)	2013 Edition

[msi.nga.mil/NGAPortal/MSI.portal](http://msi.nga.mil/NGAPortal/MSI.portal)

[www.nauticalcharts.noaa.gov/nsd/cpdownload.htm](http://www.nauticalcharts.noaa.gov/nsd/cpdownload.htm)



# NOAA's Tsunami Outreach and Education

- TsunamiReady™ Program
  - Improves community awareness, preparation, and education
  - Strengthens local Emergency Operations
  - 156 communities have been recognized
- National Tsunami Hazard Mitigation Program
  - Partnership among Federal and State Agencies
  - Enhance National Tsunami Outreach and Education Efforts
  - Promotes a Culture of Tsunami Preparedness and Response
- Education and preparedness resources for national and international public and partners
  - Through the media
  - Presentations and Trainings
  - Brochures and Websites
- NOAA serves as Chair of the UNESCO IOC Intergovernmental Coordination Group for Tsunamis and other Coastal Hazards for the Caribbean and Adjacent Regions.

**Outreach** and **Education** of tsunami threat are key for residents to safely respond to Tsunami Events





Thank you

