

IHO Hydrographic Commission on Antarctica (HCA)

National Report by  
United States



# Survey and charting progress in Antarctica since HCA-14 (June 2016)

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- new charts produced (INT, national, ENC)



# NGA chart 29282 Scott Island and Vicinity, 2017 edition 1:25,000, 1:75,000

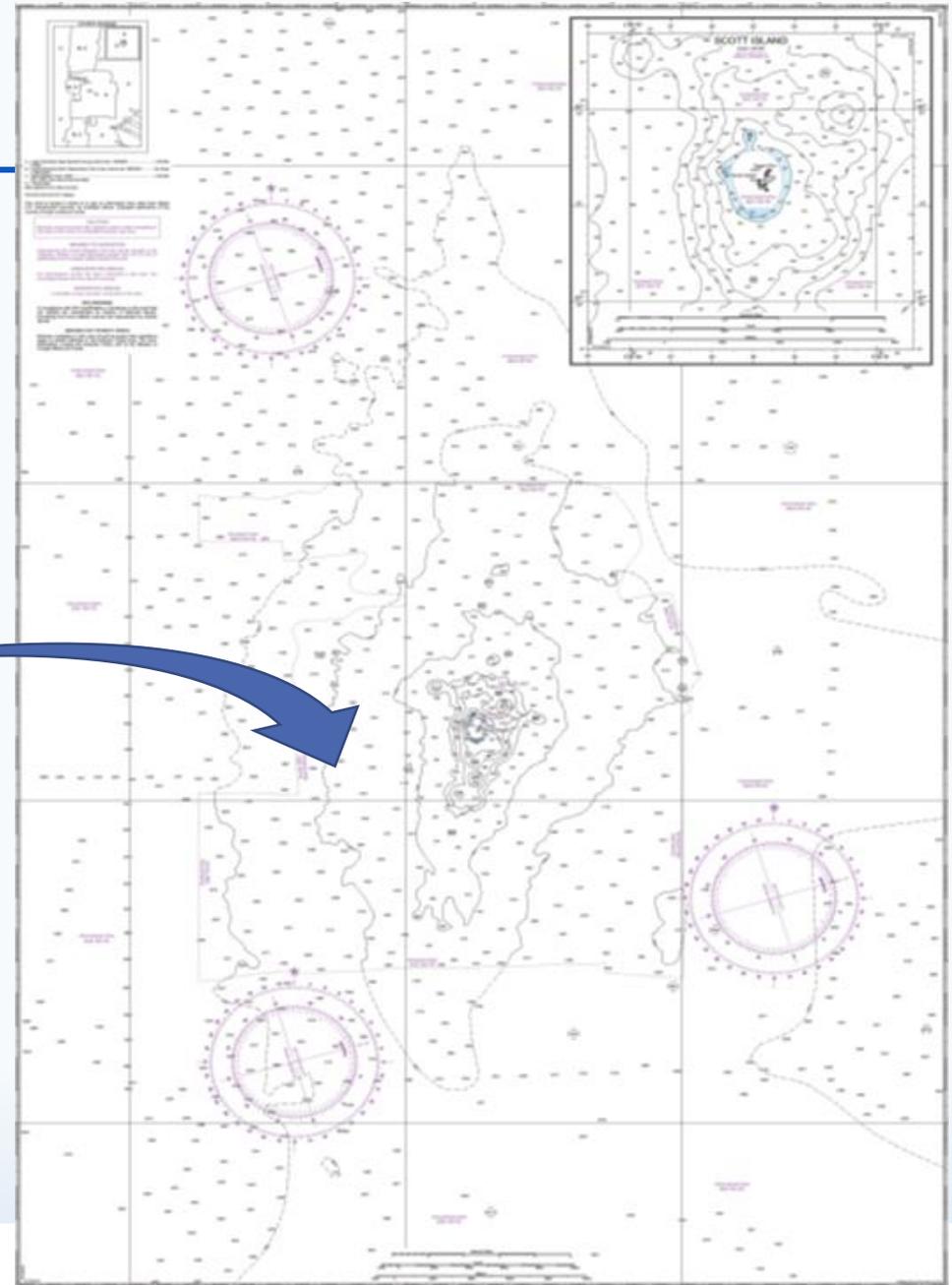


Image Credit - <https://1uptravel.com/international/other/Antarctica/maps.html>



# NGA chart 29322 Cape Royds to Hut Point, 2017 edition 1:50,000

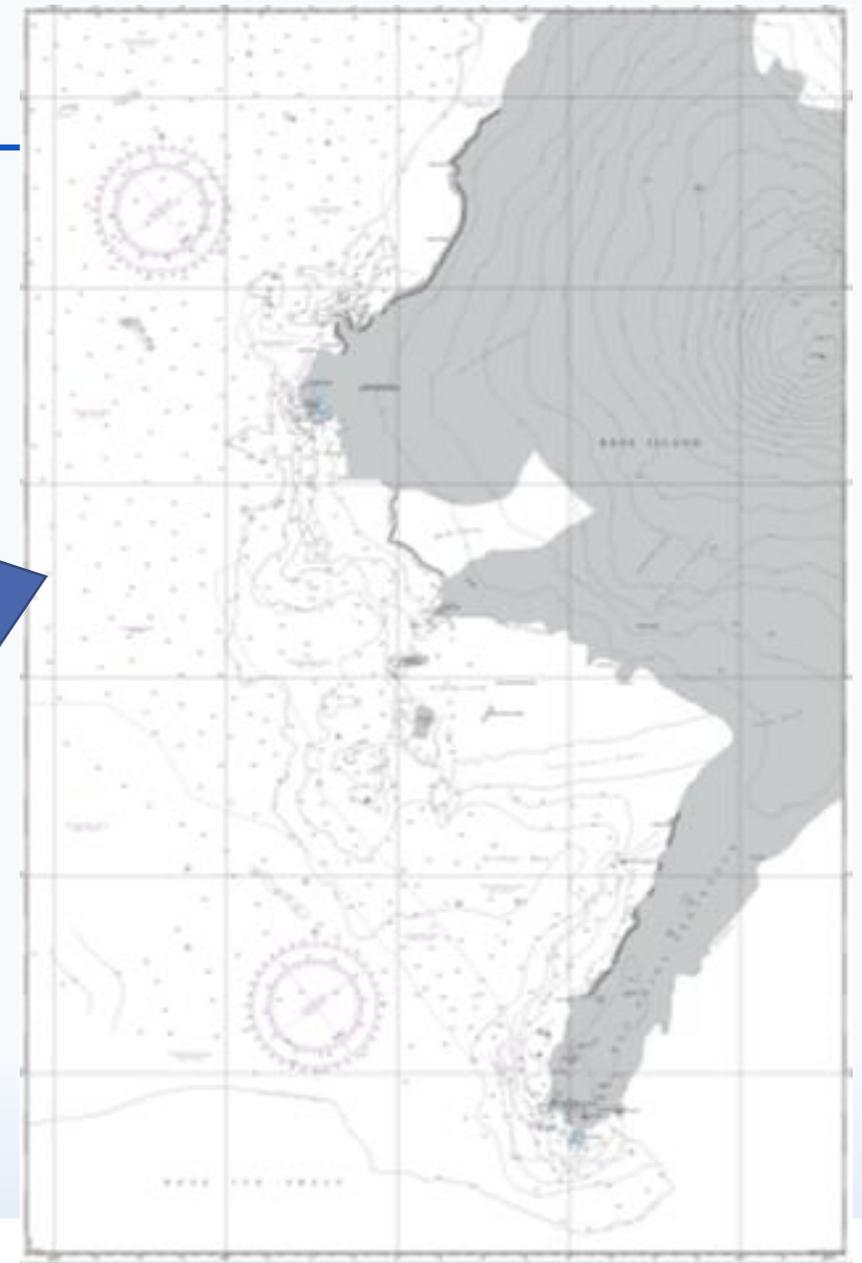
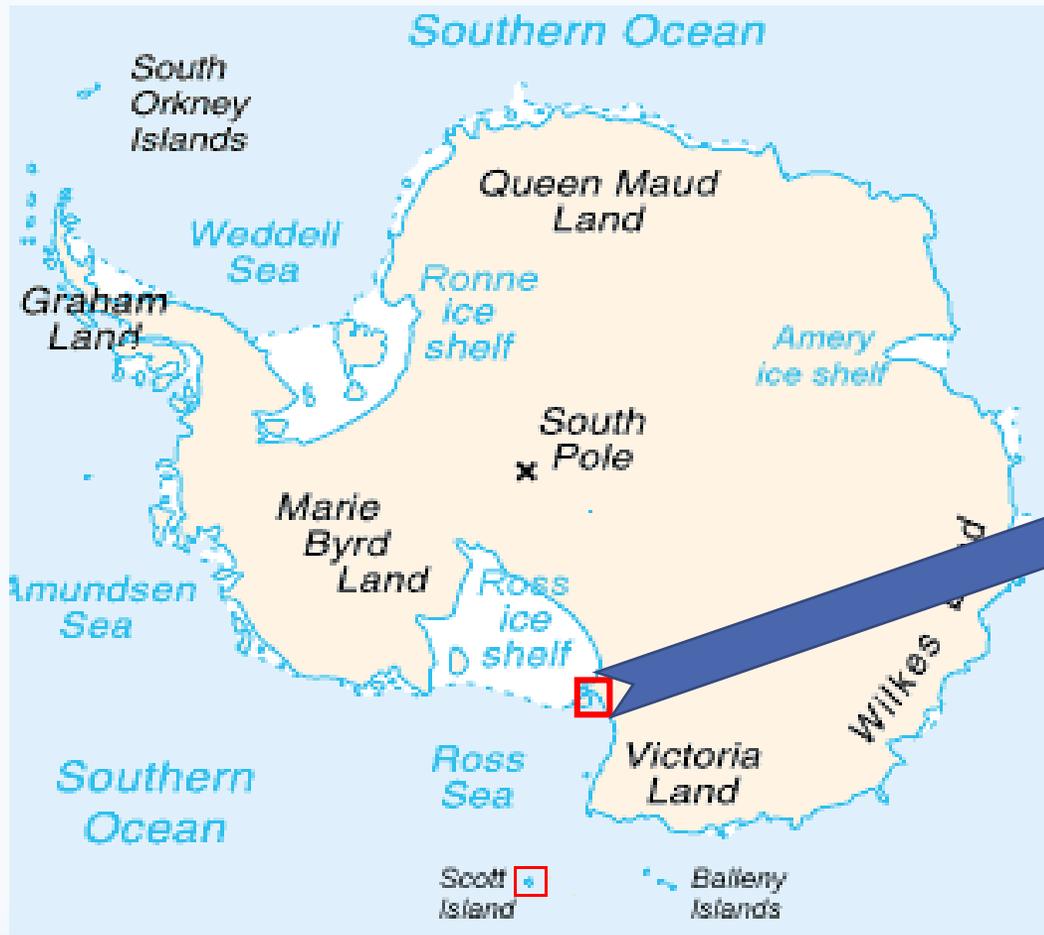


Image Credit - <https://maps.ngdc.noaa.gov/viewers/bathymetry/>



International Hydrographic Organization  
Organisation Hydrographique Internationale

HCA-15, Niteroi, Brazil, 26 – 28 June 2018

# Survey and charting progress in Antarctica since HCA-14 (June 2016)

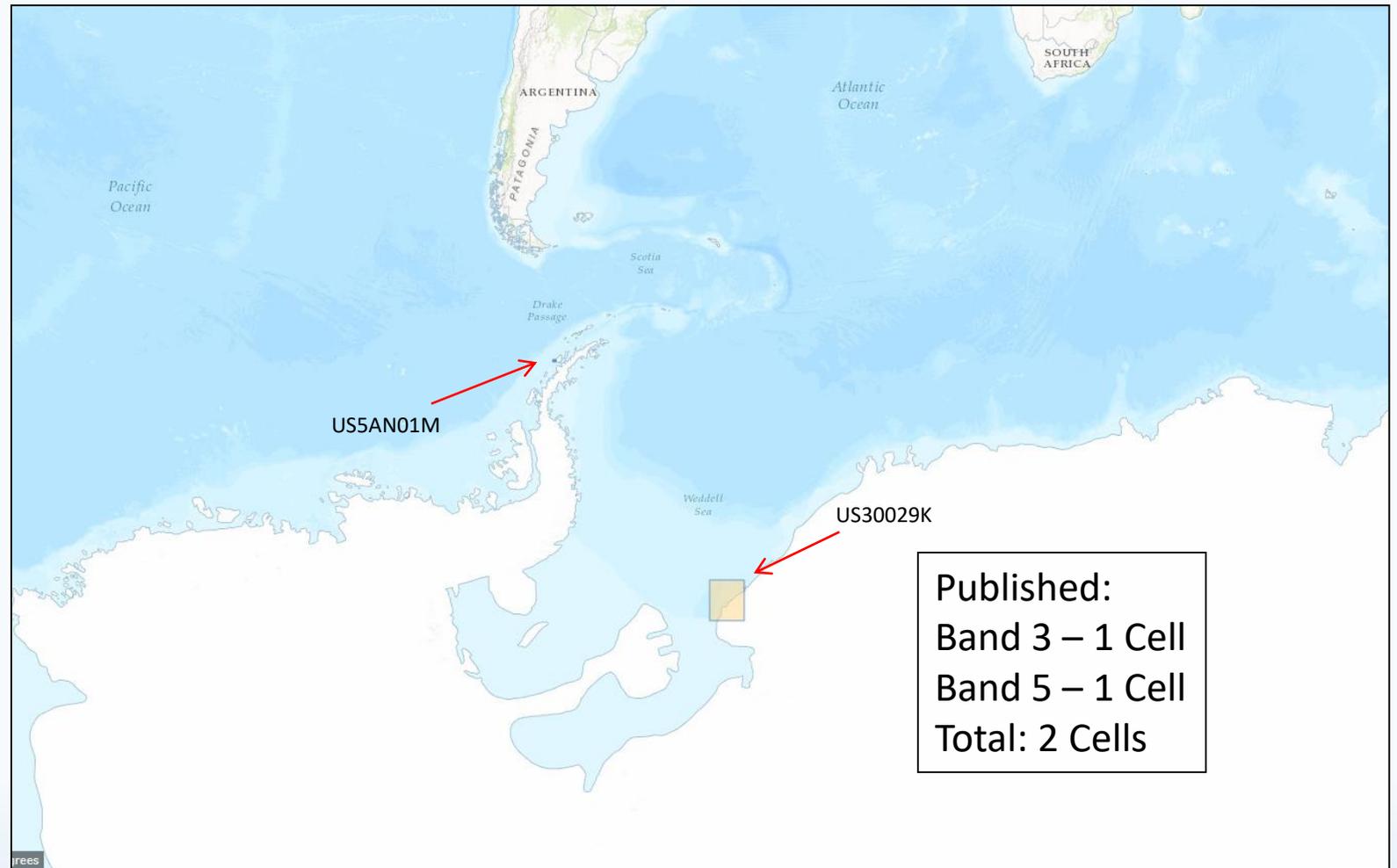
- ENC US30029K

Vahsel Bay and Vicinity

- ENC US5AN01M

Approaches to Arthur Harbor  
and Arthur Harbor

- NGA Partnering with NOAA
- Sources: DNC® libraries & others



# Survey and charting progress in Antarctica since HCA-14 (June 2016)

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- areas surveyed
  - NGA Dynamic World Coastline project
    - 1:50,000 map scale accuracy
    - Coastline collected and validated against high resolution commercial satellite imagery
    - Antarctica scheduled for 2019
    - Maintenance and hosting: TBD
- risk assessment studies - none
- impact of Polar Code on your activities - none



# Status of Relations with Other Organizations

- scientific and polar institutes
  - National Science Foundation trackline data

The IHO Data Centre for Digital Bathymetry (DCDB) is hosted by the U.S. National Oceanographic and Atmospheric Administration (NOAA) on behalf of the IHO Member States.

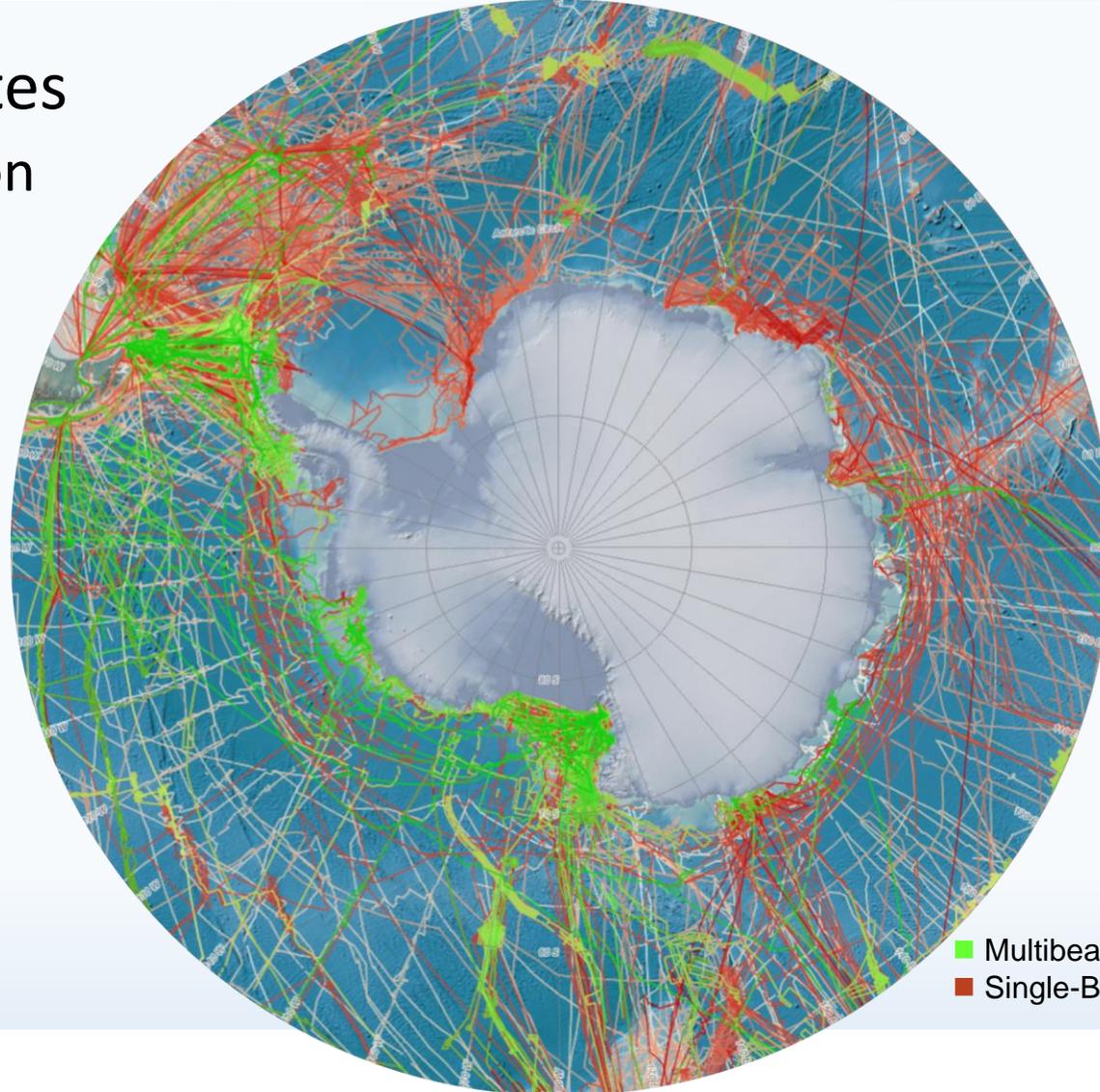


Image Credit - <https://maps.ngdc.noaa.gov/viewers/bathymetry/>

- Multibeam Bathymetric Surveys
- Single-Beam (Trackline) Bathymetric Surveys



# Status of Relations with Other Organizations

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- scientific and polar institutes
  - NGA, National Science Foundation
  - 3-D Digital Elevation Models of Alaska Under ArcticDEM Project
- White House Office of Science and Technology Policy
- National Science Foundation
- University of Minnesota
- University of Illinois
- Ohio State University
- Cornell University



Image Credit - <https://nsf.gov>

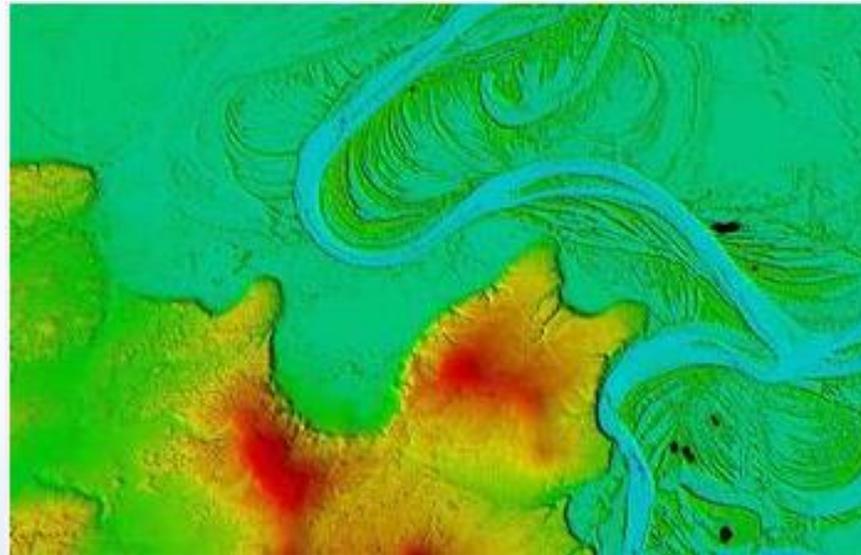


Image Credit - <https://nsf.gov>



# Status of Relations with Other Organizations

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- cruise vessels – Carnival Cruise Line has agreed to release information to Data Centre for Digital Bathymetry (DCDB)
- hydrographic data received from other organizations – UK, SP, AUS, JA
- hydrographic data provided to other primary charting authorities and/or GEBCO - NTR



# Planned Activities for 2018-19

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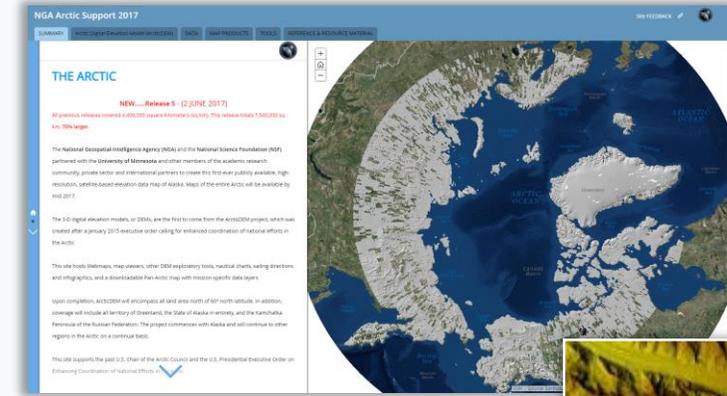
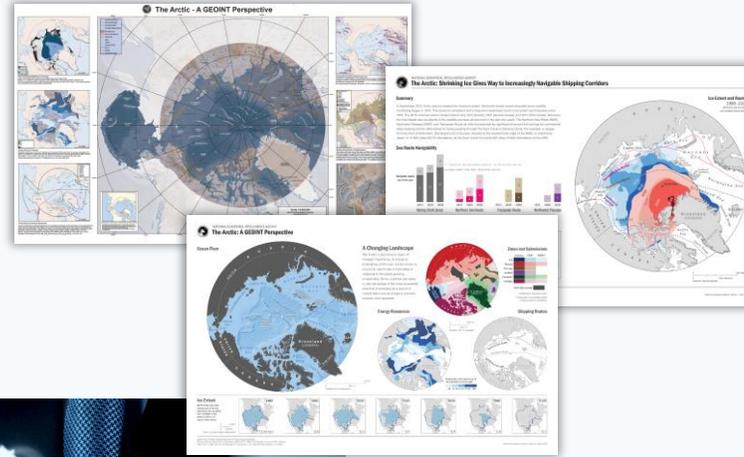
- new charts
  - Non currently planned, reviewing current scheme to determine future needs
- new surveys
  - USN to provide data – NTR



# Any other matters of relevance to HCA

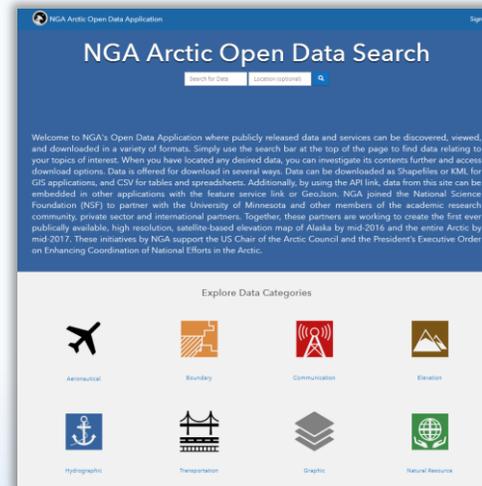


## Map Products



ArcticDEM

<https://nga.maps.arcgis.com>



Data Discovery & Download



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Organisation Hydrographique Internationale

HCA-15, Niteroi, Brazil, 26 – 28 June 2018

# Any other matters of relevance to HCA

## NGA Arctic Open Data (current) → NGA Polar Open Data (future)

Explore Data Categories

- Aeronautical
- Boundary
- Communication
- Elevation
- Hydrographic
- Maritime

NGA Arctic Open Data Application

Find [ ] [ ] My Data Sign In

Overview Data

Small Ports

No license specified 6/16/2017 Spatial Dataset 23 Rows

UNCLASSIFIED Arctic coverage of the NGA World Port Index. Data current as of 11 December 2014.

Attributes

Chart Map Visualization

ANCH_DEPTH Text	CARBCHMOOR Text	CARGMDOOR Text	CARGO_ANCH Text	CARGODEPTH Text	CARGOWHARF Text	
CARICEMOOR Text	CHAN_DEPTH Text	CHART Text	COMM_AIR Text	COMM_FAX Text	COMM_PHONE Text	COMM_RADIO Text

Full Dataset

GeoService  
<https://services1.arcgis.com/cc7nlll>

GeoJSON  
<https://opendata.arcgis.com/datas>

Create Webmap

Create a Story Map

### Downloadable and Service-Enabled

- ▶ Airfields
- ▶ Maritime Boundaries and Submissions
- ▶ Sea Ice Extents
- ▶ Search and Rescue Zones
- ▶ Energy Resource Potential from USGS
- ▶ Natural Earth Features
- ▶ Natural Resource Potential
- ▶ NAVTEX Sites
- ▶ Shipping and Hydrography
- ▶ World Port Index

Interoperable service endpoints support a Spatial Data Infrastructure.



# Any other matters of relevance to HCA

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## US Board of Geographic Names (BGN)

- New US Representative (Trent Palmer-NGA), Executive Secretary for Foreign Names Committee (FNC)

GEOnet Names Server (GNS). Access through the BGN's website:

<http://geonames.usgs.gov/foreign>



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# Thank You

