National Geospatial-Intelligence Agency (NGA)

Disaster Response and Data Availability

Caitlin Johnson, USA

International Seminar on United Nations Global Geospatial Information Management, 10 May 2022
The Road to “Open”

Geospatial Data Act, 2018

“Information Superhighway”

National Spatial Data Infrastructure

Executive Order No. 12906
Activating NGA

Public Use to assist humanitarian missions: the National Geospatial-Intelligence Agency is providing online access to its unclassified geospatial intelligence products to lead federal agencies and their partners.

NGA Supported HADR efforts

High Resolution Elevation Data of the Arctic (North of 60 degrees)

High Resolution Elevation Data of Antarctica

Combating Wildlife Trafficking (Community of Interest)
Humanitarian Assistance and Disaster Relief
# Humanitarian Assistance and Disaster Relief - Hurricane Matthew

## NGA - HURRICANE MATTHEW SUPPORT

<table>
<thead>
<tr>
<th>Summary</th>
<th>Damage Assessments</th>
<th>Product Locations</th>
<th>Products</th>
<th>Data</th>
<th>Supporting Sites</th>
</tr>
</thead>
</table>

- **PDF**
  - Haiti - South Coast - Nautical Chart - 26BHA26203_006
  - Haiti Displaced Tracking Matrix (DTM) June 2016
  - Haiti Golfo de la Gonave - Nautical Chart - 26AHA26181_021
  - Haiti Gonaives Port 7Oct16 Gonaives Port
  - Haiti Hospital and NGO Status - PDC
Humanitarian Assistance and Disaster Relief - Hurricane Matthew
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Humanitarian Assistance and Disaster Relief - Hurricane Matthew
Humanitarian Assistance and Disaster Relief – Hurricane Matthew

DATA

(service link)
Quantitative Precipitation Forecast (service link)
Inundation Data (service link)
NWS Nexrad Radar (service link)
Satellite GOES Imagery (service link)
Lightning Strike Density (service link)
NHC GeoRSS
Homeland Infrastructure Foundation-Level Data
(HIFLD) Open Data (portal link)
World Port Index-Large (service link)
World Port Index-Medium (service link)
World Port Index-Small (service link)
World Airports (service link)
NGA Hurricane Response
Sets Precedent

The recent support NGA has provided to our nation in the wake of two historic hurricanes has been unprecedented and viewed by many customers as “setting the standard for future geospatial-intelligence (GEO-INT) responses to worldwide issues.”

NGA supported scores of customers in preparing for and responding to Hurricanes Katrina and Rita. The broad level of support included identifying key infrastructure, accurately locating...
Humanitarian Assistance and Disaster Relief – Nepal Earthquake
Arctic Digital Elevation Model (ArcticDEM)

**Nautical Charts**

- Sailing charts are the smallest scale charts used for planning, fixing position at sea and for plotting the dead reckoning while proceeding on a long voyage. The scale is generally smaller than 1:600,000. The shoreline and topography are generalized and only offshore soundings, principal navigational lights, outer buoys, and landmarks visible at considerable distances are shown.
- General charts are intended for coastside navigation outside of outlying reefs and shoals. The scales range from about 1:150,000 to 1:600,000.
- Coastal charts are intended for inshore coastside navigation, for entering or leaving bays and harbors of considerable width, and for navigating large inland waterways. The scales range from about 1:50,000 to 1:150,000.
- Harbor charts are intended for navigation and anchorage in harbors and small waterways. The scale is generally larger than 1:50,000.
Arctic Digital Elevation Model (ArcticDEM)
Arctic Digital Elevation Model (ArcticDEM)
Wildlife Trafficking

DATA

DATA DISCOVERY and DOWNLOAD

Data is offered for download in several ways. Data can be downloaded as Shapefiles or KML for GIS applications, and CSV for tables and spreadsheets. Additionally, by using the API link, data from this site can be embedded in other applications using either the GeoJSON, GeoService or OGC WMS methods.
Wildlife Trafficking

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- Topoographic
- Human Geography

Search all datasets by keyword or map region

Select by Individual Layer - access to multiple formats and services

Select by Entire Theme - download theme as shapefile
Wildlife Trafficking

The Human Security Nexus is a tool designed for collection in preparation for a disaster, the focus is infrastructure awareness in support of people serviced by that infrastructure, with special attention to intersecting nodes with extended influence. The goal is to directly access knowledge about risks and strategies needed to develop tools that are relevant to security and social conditions. The thematic maps listed below have data categorized according to the WVIDD themes. CLICK on a map name to display:

- Cultural Heritage Communication and Media Use
- Demographics and Human Population
- Economy
- Education
- Environment
- Groups/Organizations
- Health and Medical
- Land Ownership
- Land Use - Land Cover
- Language
- Religion
- Significant Events
- Transportation
- Water Supply and Control
Wildlife Trafficking

REFERENCE & RESOURCE MATERIAL

This illegal practice has overtaken trophy poaching in depleting wildlife in Zambia

Washington Post article - July 15, 2016

US Pours Millions into Fighting Poachers in South Africa

NY Times Article - December 22, 2015

Wildlife Conservation Society

US Pours Millions into Fighting Poachers

NY Times (Dec 22, 2015 article)

The Obama administration is stepping up efforts here to combat wildlife poaching, an expanding criminal enterprise in South Africa that has driven several animal species toward extinction and fueled the growth of international gangs.