

National Digital Orthoimagery Program FGDC Subcommittee 2017 Report

Erik Hund Physical Scientist NOAA February 7, 2017

National Digital Orthoimagery Program

- Established in the mid 1990s and annexed as a FGDC Subcommittee in 2008.
 - Develop, promote, and execute a national strategy for acquisition and development of orthoimagery data for Federal agencies
 - Create and utilize partnerships with State, local, tribal, and private organizations.
- Members represent 14 Federal Agencies and the National States Geographic Information Council.
- NDOP holds 2 face-to-face steering committee meetings each year and various working group conference calls/webinars throughout the year



NDOP 2017 Leadership

- Steering Committee Chair Erik Hund, NOAA
- Program Sub-Committee Chair Shirley Hall, FSA
- Technical Sub-Committee Chair David Davis, FSA



Current Status and Activities

- Steering Committee Meeting November 15-17 2016, Salt Lake City, UT
 - NGA-GSA Commercial Initiative to Buy Operationally Responsive GEOINT (CIBORG) BPA
 - Federal Imagery Program Updates
 - Local and Regional Updates
 - Data Storage and Distribution
 - Scanning of Historical Film

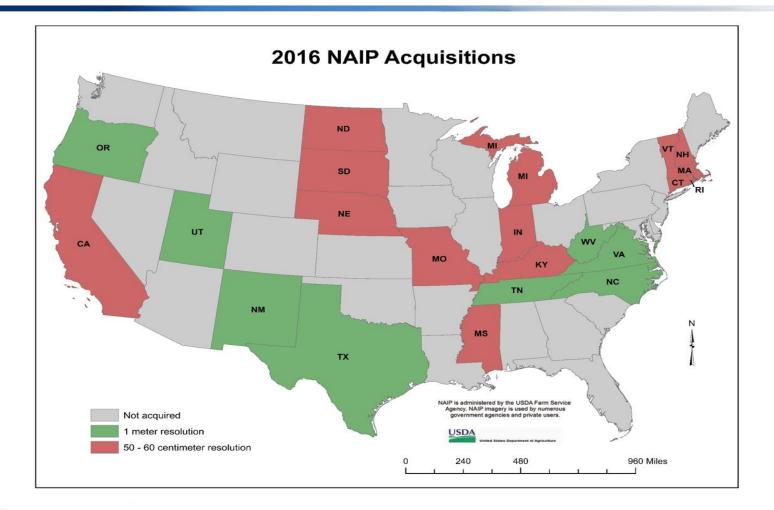


Imagery Programs and Projects

- USDA Farm Service Agency National Agriculture Imagery Program
 - Acquired 1.7 million square miles in 2016
 - 22 states total
 - 8 at 1.0 meter
 - 14 at 0.6 meter through a buy-up option
 - Early Access Web Services available for internal use within 7 days after acquisition
 - New IDIQ planned for 2018
 - Currently planning for 2017 collections
 - Awaiting partnership funding

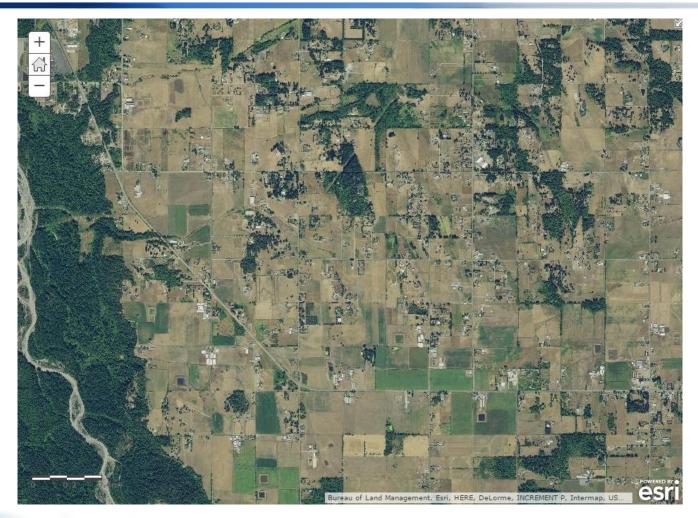


2016 NAIP Acquisition





Washington NAIP Imagery





Imagery Programs and Projects

- Completion of High Resolution Orthoimagery (HRO) 133 Cities Initiative – USGS, NGA, DHS, USACE
 - Homeland Security Infrastructure Program (HSIP) 133 Urban Areas (UA)
 - Partnership with state and local agencies
 - 2003 2016
 - Sub meter resolution, leaf-off imagery
 - Urban areas acquired on 2-3 year cycles
 - Available through USGS Earth Explorer



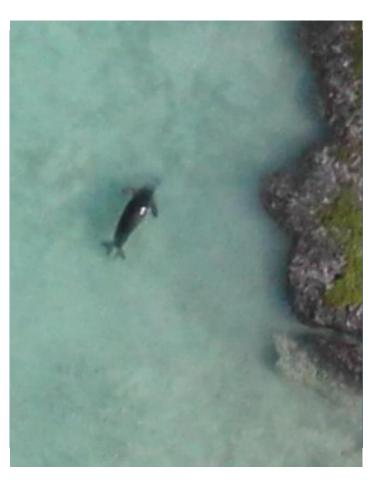
Imagery Programs and Projects

- Coastal Shoreline Mapping and Emergency Response Imagery – NOAA
- Hawaii and US Pacific Basin Satellite Acquisition NRCS
- Lots of UAS Imagery Projects USGS, BLM, USFS, FWS, NOAA



UAS Imagery, Northwest Hawaiian Islands

One inch resolution UAS imagery acquired for marine mammal and vegetation monitoring by NOAA Fisheries Service. Image of Hawaiian Monk Seal collected near Southeast Island, Pearl and Hermes Reef, NWHI.



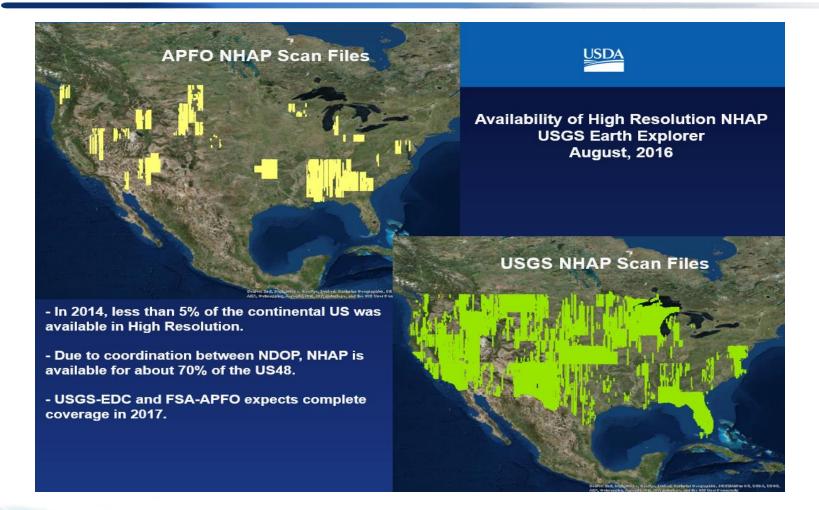


Technical Sub-Committee

- Evaluation of Wyoming Stereo NAIP 0.5 meter Imagery – BLM
- Landsat 8 Status, Satellite and Aerial Data Storage and Distribution– USGS
- Scanning of Historical Film from the 1950s and from the NHAP (1980s) Program
 – USGS EROS, USDA APFO



APFO and USGS Film Scanning



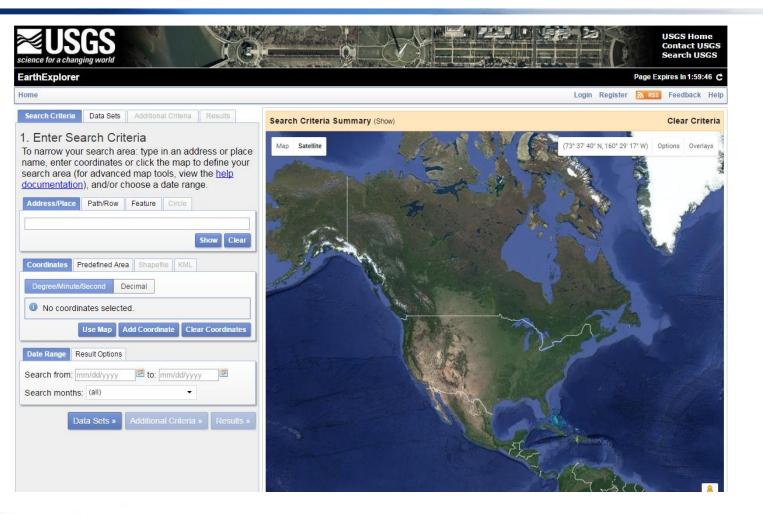


Aerial and Satellite Imagery Data Distribution

- NDOP agencies have provided millions of FREE aerial and satellite downloads to the public
- USGS Earth Explorer
 - Distributed over 17 million Landsat scenes in 2016
 - Google, Amazon, China
- NRCS Geospatial Data Gateway
 - NAIP Compressed County Mosaics and other aerial imagery
- NOAA Digital Coast
 - Engineering firms, academia and government



USGS Earth Explorer



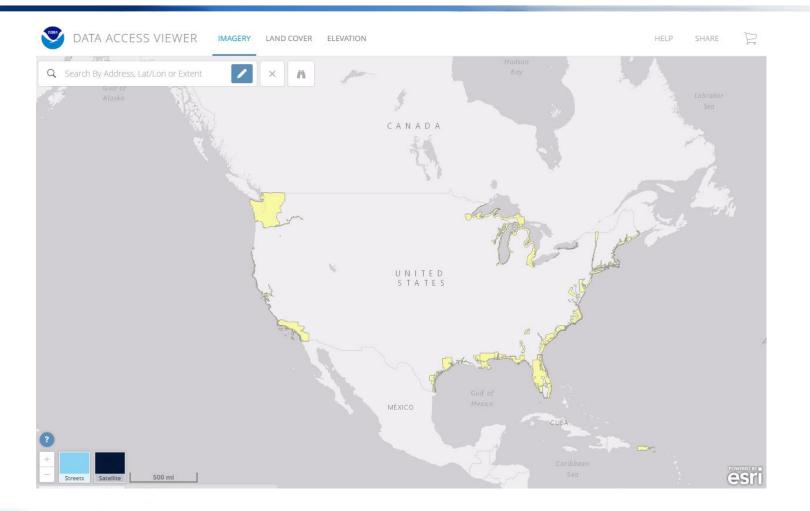


NRCS Geospatial Data Gateway

VSDA Resources Conservation Service United States Department of Agriculture	Geos	SpatialDataGateway
Home Status Maps Help FAQ Contact Us A ^A - ^A A + AA =		
1-WHERE		
2-WHAT	WHAT	YOUR ORDER
The list in the middle pane indicates		
the available map layers for your area	Here are the available map layers for your selected area of interest.	Order Area (Where): Autauga
of interest. The number of maps and total size of the map layers are listed next to the description. Clicking on the () icon will provide a pop-up	Cadastral	County, Alabama
	Public Land Survey System (PLSS) Townships, 1 map 0.049 MB 🚹	Order Map Layers (What):
	Public Land Survey System (PLSS) Sections, 1 map 0.93 MB 1 +	
window with that map layer's	Census	Order Format (How): None Order Projection (How): None Order Indusion (How): None Order Delivery Method (How): None Order Recipient (Who):
description. Use the 🖶 icon to get a	TIGER 2015 Census Blocks, 1 map 3.55 MB 🚹 🗄	
list of individual maps for that map layer. Within the list of maps, use the m icon to get metadata for the	TIGER 2015 Census Block Groups, 1 map 0.286 MB 🔋 🔁	
	TIGER 2015 Census Tracts, 1 map 0.187 MB 🔋 🛨	
specific map and the 🛞 icon for an	TIGER 2015 State and County Demographic Statistics by State, 1 map 0.776 MB (1) T	
individual map preview. You may	TIGER 2010-2014 County Social, Econ, Housing Stats by State, 1 map 2.673 MB 1 +	
collapse this map list with the icon. Your selections will be added to the YOUR ORDER Panel on the far	Climate Precipitation	
	📕 1961-1990 Monthly Average Precipitation by State, 12 maps 1.968 MB 😗 🛨	
right.	📕 1961-1990 Annual Average Precipitation by State, 1 map 0.146 MB 😗 🛨	
- Igne	1971-2000 Monthly Average Precipitation by State, 12 maps 7.765 MB 13	
You may change your map layers	1971-2000 Annual Average Precipitation by State, 1 map 0.945 MB 1 +	
after this step but all of the subsequent choices made for your order will be removed.	1981-2010 Monthly Average Precipitation by State, 12 maps 4.392 MB 1 +	
	1981-2010 Annual Average Precipitation by State, 1 map 1.893 MB 1 +	
	Climate PrismRaster	
Maps in layers that are "by State"	1961-1990 Annual Average Raster Precipitation by State, 1 map 0.483 MB 1 +	
cover an entire state.	1971-2000 Annual Average Raster Precip and Temp by State, 1 map 13.952 MB 1 +	
	1981-2010 Annual Average Raster Precip and Temp by State, 1 map 8.484 MB 1+	
	Climate Temperature	
3-HOW	1971-2000 Annual Average Minimum Temperature by State, 1 map 2.568 MB 1 +	
4-WHO 5-REVIEW	1071-2000 Annual Averane Maximum Temperature by State, 1 man 3 226 MB 4 + CONTINUE	·



NOAA Digital Coast and Data Access Viewer





NDOP Spring 2017 Steering Committee Meeting

• Planned for May 2-4 In Reston, VA

