National Digital Orthoimagery Program
FGDC Subcommittee 2018 Report

Timothy Stryker, USGS
Chair, NDOP Steering Committee
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
  - Manage and coordinate overhead imagery to support the needs of the United States civil government

- USGS Theme Lead transferred from the National Geospatial Program to the Land Remote Sensing Program in January 2016.

- Members represent 14 Federal Agencies and the National States Geographic Information Council.

- NDOP holds two face-to-face steering committee meetings each year and various subcommittee conference calls/webinars throughout the year.
NDOP 2018 Leadership

• Steering Committee Chair – Timothy Stryker, National Land Imaging Program, U.S. Geological Survey, U.S. Department of the Interior

• Program Sub-Committee Chair – Shirley Hall, Farm Service Agency, U.S. Department of Agriculture

• Technical Sub-Committee Chair – Matthew Bobo, Bureau of Land Management, U.S. Department of the Interior
Current Status and Activities

• 2017 Steering Committee Meeting – October 24-26, Denver, Colorado
  • FGDC – Imagery Theme Requirements
  • The Future of the National Agriculture Imagery Program
  • The Geospatial Data Act
  • The NSF National Earth Observation Network
  • Special Civil Applications Committee (CAC) Request for Commercial Satellite Imagery of the State of Alaska
  • Joint Agencies Commercial Imagery Evaluation (JACIE)
  • The State of the Commercial Remote Sensing Satellite Industry
  • Historical Film Scanning
  • Agency Updates
  • NSGIC Update
Imagery Programs and Projects

- USDA Farm Service Agency – National Agriculture Imagery Program (NAIP)
  - Acquired 4-band imagery for 1.7 million square miles, or 26 States, in 2017
    - 23 States collected at 1.0 meter
    - 3 States collected at 0.6 meter through a buy-up option
  - Current IDIQ contract extended an extra year beyond 2016
  - Future NAIP coverage expected to drop to 59% of 2017 coverage (1 million square miles annually) due to expected budget restrictions
  - IPT established to address coverage uncertainty

- NAIP restructured from a 2-year to 3-year cycle at 60 cm collection, starting in 2018
  - Restructuring decision based upon 20% funding reduction
  - Mid-May contract award, single-year contract for 17 States
  - Priced options for CCMs, stereo, and point-cloud data

- 2018 NAIP MOU signed by FSA, USGS, NRCS, DOI
2017 NAIP Acquisition

2017 NAIP Acquisitions

- Not acquired
- 1 meter resolution
- 60 centimeter resolution

NAIP is administered by the USDA Farm Service Agency.
Projected 2018 NAIP Collection

17 states
74,983 DOQQs
~33.4% of CONUS
Imagery Programs and Projects

- USGS National Land Imaging Program
  - Manages multiple imagery programs and capabilities via its EROS and Civil Applications Committee Facilities – including the Landsat satellite system
  - Maintains the U.S. global archive of Landsat, U.S. and foreign commercial satellite data, and other historical imagery under NSLRSDA
  - Recognized as 1 of 12 NASA Distributed Active Archive Centers, for its MODIS and ASTER data holdings

- In process of changing how commercial imagery is acquired from NGA
  - Used an “All of Alaska” data request for broad area collection versus targeted “ad hoc” requests
  - Sought limitation on legal oversight of U.S. Civil Government by the NGA
  - NGA requested collateral CAC “deconfliction” of civil imagery requests submitted to NGA

- Changing Nature of NGA commercial data acquisition and distribution

- USGS continuing its efforts to expand to national aerial and satellite collection, for both geospatial and scientific applications, under the FGDC
Imagery Programs and Projects

- NOAA Coastal Shoreline Mapping and Emergency Response Imagery – Ongoing

- Multi-agency Orthoimagery Acquisition in US Pacific Basin – (USDA-NRCS, USDA-FSA, NOAA, DOD-NGA)

- NDOP Member High-Resolution Scanning of NHAP Historic Aerial Photography
  - FY 2014: less than 5% of continental United States available with high-res NHAP
  - FY 2014: less than 5% of digital color infrared of continental United States available with high-res NHAP
  - FY 2017: over 55% of CIR collection available via USGS-Earth Explorer
NHAP CIR Coverage of USGS and APFO Digital Scans

- 192,800 scans available - 94,000 remaining
- All available scans can be downloaded through Earth Explorer at no-cost to the user
DOI and USDA* will host an FGDC National Imagery Summit on May 22-23 in the USGS J.W. Powell Auditorium in Reston, Virginia.

Meeting Purpose
- To address challenges in today’s dynamic ortho-imagery marketplace
- To chart the future path for agencies’ civil-operational land imagery collection in the United States

Topics to be Covered
- The status of agencies’ overhead land imagery programs
- Issues and gaps in agencies’ current and projected future imagery needs
- Promising approaches to leverage future land-imaging technologies and business models to achieve agencies’ objectives
- Needs and requirements for a future national overhead imagery architecture

Desired Outcomes
- Enhanced community awareness of civil-operational land-imaging needs
- Development of a national civil land-imaging collection strategy to address Fed/State/Local/Tribal needs

*FGDC Imagery Theme Co-Leads
NDOP Spring 2018 Steering Committee Meeting

• Planned for May 24 In Reston, VA