➤ NATIONAL GEOSPATIAL-INTELLIGENCE AGENCY

Alaska Elevation Data Collection Update

National Geospatial Advisory
Committee
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Steve Wallach
NGA GEOINT Information Executive







Background

- Dave Maune Study for State of Alaska
 - Found elevation over Alaska to be of extremely poor quality
 - Most produced 15-20+ years ago exception SRTM (<60N)
 - Low resolution (90 and 30M) from a variety of sources
 - In some cases errors of 100s of meters horizontal and vertical
 - Cited air safety of navigation as driving factor
 - Many other elevation data requirements
 - Recommended 5M DEM, using IFSAR
 - Meets most stringent ICAO requirements
 - · SAR alleviates weather challenges
 - Provides opportunity to also collect gravity data
- State interested in partnering
 - NGA requirements
 - USGS interest

FEDERAL LANDS AND NDIAN RESERVATIONS

Where We Are

Bureau of Indian Affairs

Bureau of Land Management / Wilderness

Department of Defense

(includes Army Corps of Engineers lakes)

Fish and Wildlife Service / Wilderness

Forest Service / Wilderness

National Park Service / Wilderness

Some small sites are not shown, especially in urban areas.

100	200	300	400	500
Albers equal area projection				

Abbreviations

National Conservation Area National Forest National Historic Park NHP National Monument National Park National Preserve

National Recreation Area National Wildlife Refuge





ALASKA



AK Elevation Data - Contract Status

Contributing partners

- NGA BLM
- State of Alaska NRCS
- USGS NPS

Coverage- 157,540 sqkm (28 full degree cells)

- Licensed for public use
- Additional legacy Intermap holdings included (~190,000 sqkm)

Data Specifications and Deliverables

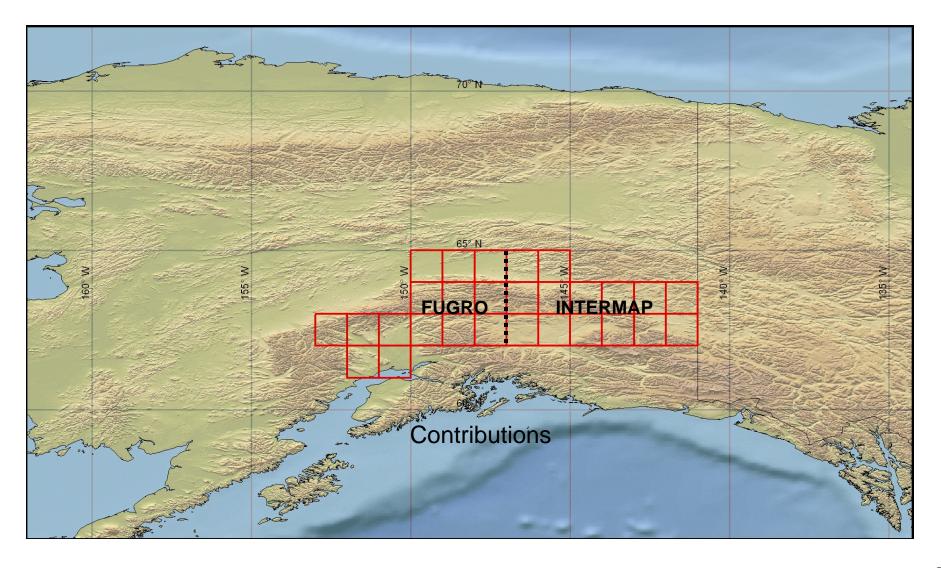
- Spatial resolution: 5m (also downsampled to HRTE3 & DTED2)
- Digital Surface Models (DSM) or reflective surface
- Digital Terrain Models (DTM) or bare earth

Schedule

- Jan-Feb 2011; 2 pilot cells
- Mar-Aug 2011; Incremental deliveries of ~4 cells per month

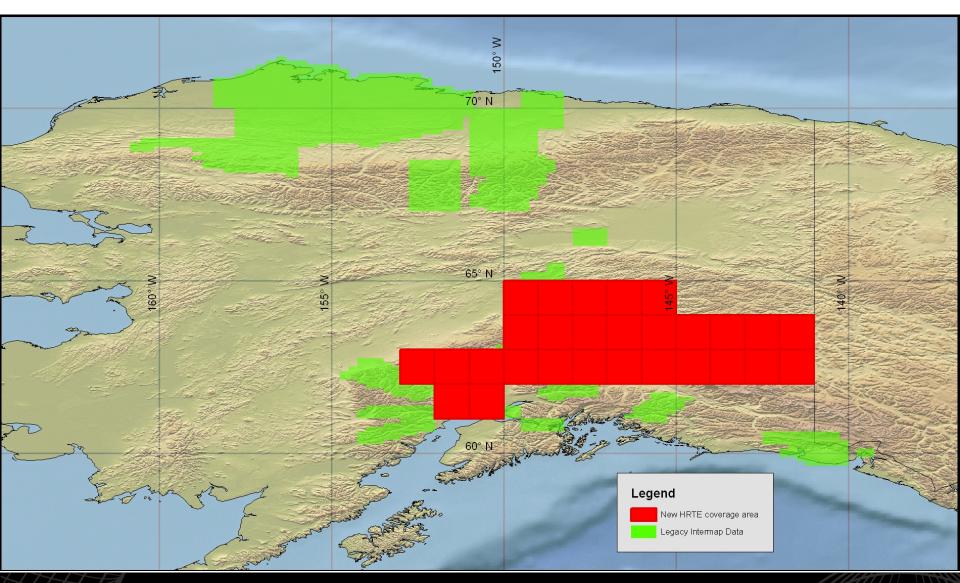


Alaska Elevation Data





Legacy Intermap Data Coverage





www.nga.mil



NSG and **FGDC** Membership

NSG Members

- Air Force Intelligence, Surveillance, and Reconnaissance Agency (AFISRA)
- Air Force Intelligence Analysis Agency (AFIAA)
- National Air and Space Intelligence Center (NASIC)
- Army Deputy Chief of Staff,G-2,
- Army Intelligence and Security Command (INSCOM)
- National Ground Intelligence Center (NGIC)
- Central Intelligence Agency (CIA)
- Coast Guard
- Defense Intelligence Agency (DIA)
- Missile and Space Intelligence Center (MSIC)
- USAFRICOM Intelligence and Knowledge Development Directorate (IKD)
- USEUCOM JIOCEUR Analytic Center (JAC)
- Department of Energy Office of Intelligence (DoE)
- Department of Homeland Security (DHS)
- Department of State Bureau of Intelligence and Research (INR)
- Department of the Treasury (DoT)
- Drug Enforcement Administration (DEA)
- Office of National Security
- Federal Bureau of Investigation (FBI)
- Marine Corps Intelligence Activity (MCIA)
- National Geospatial-Intelligence Agency (NGA)
- National Reconnaissance Office (NRO)
- National Security Agency (NSA)
- Office of Naval Intelligence (ONI)
- The Joint Staff.
- Military Departments (Army, Air Force, Navy, Marine Corps),
- Combatant Commands (CENTCOM, NORTHCOM, etc..)

NSG Partners:

- United States Geological Survey
- United States Department of Treasury
- United States Department of Interior
- The Environmental Protection Agency
- United States Army Corps of Engineers
 United States Paragraphs of Institute
- United States Department of Justice
- United States Department of Agriculture
- USDA Foreign Agricultural Service
- USDA Forest Service
- United States Department of Commerce
- National Oceanic and Atmospheric Administration
- United States Health and Human Services
- United States Department of Homeland Security
- Federal Emergency Management Agency
- United States Coast Guard
- National Science Foundation
- Defense Information Systems Agency
- Defense and Civil GEOINT service providers
- International entities
- Industry *
- Academia *

Blue – Civilian Agency (element)

RED – IC Element

Underlined – Data Partner/Contributor to NGA

FGDC Members

- US AID
- Department of Agriculture
- Department of Commerce
- Department of Defense
- Department of Education
- Department of Energy
- Department of Health and Human Services
- Department of Homeland Security
- Department of Housing and Urban Development
- Department of the Interior
- <u>Department of Justice</u>
 Department of Labor
- Department of State
- Department of Transportation
- Department of Treasury
- Department of Veterans Affairs
- EPA
- FCC*
- GSA
- Library of Congress
- National Archives and Records Administration
- National Aeronautics and Space Administration
- National Capital Planning Commission*
- National Science Foundation
- Nuclear Regulatory Commission
- OMB
- OPM
- Small Business Administration
- Smithsonian Institution
- Social Security Administration
- Tennessee Valley Authority