##
SDMI SPOT5.SDMI.ORTHO | 2010 production ortho mosaic tiles
http://alaskamapped.org/ortho | orthoproj@gina.alaska.edu
##

This is the README file for the Statewide Digital Mapping Initiative's (SDMI) ortho mosaic tiles. The ortho tiles provided here are derived from the 2011 block production using SPOT5 source scenes from the 2009 and 2010 collection season.

The ortho tiles within this block are map products and are differentially rectified using the aerotriangulation results and the elevation data to produce orthoimagery with a horizontal spatial resolution equal to 2.5 meter per pixel. These are available in three separate renderings, each co-registered and in uncompressed GeoTIFF format as a 20,000m x 20,000m (8000x8000 pixels) tile:

CIR: 24 bit false color-infrared
RGB: 24 bit simulated natural color
PAN: 8 bit panchromatic - greyscale of the RGB

The following production block files are also supplied with this bundle: AT Report in PDF format, AT block boundary in ESRI shapefile format, cutlines in ESRI shapefile format, QC Master in PDF format, scene boundaries in ESRI shapefile format, and tile layout in ESRI shapefile format.

Each SDMI ortho tile set (RGB, PAN, CIR) is accompanied with FGDC compliant metadata. Please refer to the metadata files for detailed descriptions of the data products.

The SPOT5 L1A source scenes used to generate these ortho tiles are available to licensed users from the AlaskaMapped browse site:
http://browse.alaskamapped.org/display/group/SPOT5.SDMI.SOURCE-L1A

Licensing:
All data products related to this acquisition block are licensed for use by the US public sector and academia at no additional cost. The ortho tile products are available via Open Geospatial Consortium web services for all US users. Please see the license file EULA for details.
http://alaskamapped.org/public_docs/sdmi-ortho-eula.pdf

The source date (level 1a, ortho tiles, and ortho mosaic are available to US civilian federal, state, local, and tribal governments and academia defined under these terms from the EULA:

United States public entities:
- U.S. Fed/Civ - : any U.S. Federal civil government agency located in or doing work on behalf of any State of U.S..
- U.S. State/Local - : any state, county and local government agency located in or doing work on behalf of any State of U.S..
- Universities - : any higher education institutions within Alaska, or within the U.S. performing work on projects in any State of U.S..
- Native American Tribes: means any federally recognized tribe in Alaska and/or any domestic dependent nation located in or doing work on behalf of any State of U.S..

Open Geospatial Web Services Availability:

The CIR, RGB, and PAN ortho tiles are available as separate layers in the following WMS:

WMS URL: http://wms.alaskamapped.org/ortho?

The WMS is available to all US users, including public, private, government, military, and NGO users under these terms from the EULA:

The orthoimagery data is available to all US users via an Open Geospatial Consortium Web Mapping Service (WMS).

When using imagery from the WMS in a product please include the following reference text in full (see above for URL to full EULA):

includes material © CNES 2011, Distribution Spot Image S.A., France, SICORP, USA, all rights reserved

The WMS layers are available as a web map tile services. Details for the tile service end points can be found at

tile service documentation: http://alaskamapped.org/ortho/services

SDMI orthoimagery program background:

The State of Alaska is creating an updated basemap for the state. Reliable, current, statewide base geographic information is essential for continued economic development, livability, and public safety. Ortho-imagery is considered a foundation element for the framework of base geographic data. At this time, Alaska does not have an updated statewide digital ortho imagery with a high enough resolution and accuracy to meet most user needs. The new ortho-imagery being captured and processed by this project will provide a common layer that shows current conditions and trends over the Alaska landscape. It will also allow other types of geographic information to be extracted and registered. This ortho-imagery will allow Alaskan agencies and private organizations to better utilize geographic information systems (GIS) and other mapping technologies to aid in responsible decision making. This data acquisition program will provide statewide coverage within five years (by 2014). The State of Alaska funded the Statewide Digital Mapping Initiative to remedy this short-coming and to strengthen the alignment between state and federal mapping interests. The SDMI goal is a new statewide basemap, composed of ortho-imagery and elevation models. Moving forward the state would like to acquire refreshed imagery on a 3-5 year cycle, and to extend the extent of available imagery to include the three-mile territorial waters of Alaska and the U.S. Exclusive Economic Zone (EEZ), which extends 200 miles offshore. In November 2009, the SDMI entered into a partnership with federal partners representing the National Geospatial Agency, U.S. Geological Survey, Bureau of Land Management, U.S.D.A. Natural Resources Conservation Service and National Park Service to collect mid-accuracy (6-foot RMSE-z) DEM for the state. This collection is expected to occur in phases, with the first phase for collection of (28) one-degree cells beginning in 2010. SDMI managers are continuing to work with federal managers to develop an active federal program for the state. In August 2008, Alaska sponsored a joint meeting of the National Digital Elevation Program and National Digital Ortho-imagery Program. SDMI managers also directed planning contracts, surveys, multiple presentations, and two technical workshops, one on elevation and one on imagery. Each workshop resulted in a published whitepaper.

The project website http://alaskamapped.org provides further background information.