

# Geospatial Imagery & Raster GIS Data Sources

Free Downloadable &  
Purchasable Geospatial Data

## Table of Contents

Free Downloadable Imagery & Geospatial Data.....	3
Purchasable Satellite Imagery & Synthetic Aperture Radar Data.....	4
Web Map Servers, Online Viewers & Virtual Globe Applications.....	7
Hyperspectral Data & Spectroscopy Instrument Manufacturers .....	8
Digital Spectral Libraries .....	9
Aerial Orthoimagery, Hyperspectral, LiDAR & Radar Data Providers.....	9

**NOTE:** The intention of this whitepaper is to provide a sampling of online resources and it is not a comprehensive list of geospatial data servers or providers. The website links provided in this whitepaper do not represent an endorsement by Exelis Visual Information Solutions of the data products or services provided by the companies, organizations or online servers listed herein. All URL links were tested at time of publication, and the content of this whitepaper is not guaranteed or maintained by Exelis Visual Information Solutions. Any mention of geographic location is for corporate headquarters only and does not include branch office locations for the company or organization. The webpages for the companies, organizations and resources listed in this whitepaper are the property of the respective website owners.

## Free Downloadable Imagery & Geospatial Data

ASTER Global DEM (**GDEM**) @ WIST – Free 30m DEM data:  
[http://www.echo.nasa.gov/reference/astergdem\\_tutorial.htm](http://www.echo.nasa.gov/reference/astergdem_tutorial.htm)

ASTER Global DEM (**GDEM**) @ ERSDAC – Free 30m DEM data:  
<http://www.gdem.aster.ersdac.or.jp/>

Brazil National Institute for Space Research – **CBERS2** and CBERS-2B data:  
<http://www.dgi.inpe.br/CDSR/>

Canadian Council on Geomatics (CCOG) **GeoBase** – DEM, SPOT, Landsat and RADARSAT-1 datasets:  
<http://www.geobase.ca/>

Canadian Geospatial Data Infrastructure (CGDI) **GeoConnections** Discovery Portal – A wide variety of satellite imagery, aerial photography and topographic data:  
<http://geodiscover.cgdi.ca/>

Canadian Geospatial Data Infrastructure (CGDI) **GeoGratis** – A wide variety of satellite imagery, DEMs and thematic data:  
<http://geogratis.cgdi.gc.ca/>

CGIAR-CSI GeoPortal **SRTM** (version 4) – Free 90m DEM data:  
<http://srtm.csi.cgiar.org/>

Esri **ArcGIS Online** – A wide variety of raster and vector geospatial datasets:  
<http://www.arcgis.com/>

**GIS Data Depot** – A wide variety of raster and vector geospatial datasets:  
<http://data.geocomm.com/>

NASA **WIST** – Various satellite (ASTER, Landsat, MODIS) and DEM datasets:  
<http://wist.echo.nasa.gov/>

NOAA Comprehensive Large Array-data Stewardship System (CLASS) – **NPP** data:  
<http://www.class.noaa.gov/>

NOAA National Geophysical Data Center (NGDC) – Download **DMSP** data:  
<http://www.ngdc.noaa.gov/dmsp/download.html>

University of Maryland Global Land Cover Facility (**GLCF**) – Various satellite and DEM datasets including the **free Landsat archive**:  
<http://glcf.umiacs.umd.edu/data/>

USDA NRCS Geospatial Data Gateway – Free **NAIP** Compressed County Mosaic (CCM) aerial orthoimagery and other geospatial datasets:  
<http://datagateway.nrcs.usda.gov/>

USGS Earth Resources Observation and Science (**EROS**) Center – A nice collection of data sources and a **very good place to start**:  
[http://eros.usgs.gov/Find\\_Data/](http://eros.usgs.gov/Find_Data/)

USGS **National Map** Viewer – Home of "**The National Map**". Free orthoimagery, elevation data, land cover, US Topo maps, scanned historic topographic maps:  
<http://viewer.nationalmap.gov/>

USGS **Seamless Server** – Free aerial orthoimagery, Landsat mosaic, DRG topographic map, and DEM data:  
<http://seamless.usgs.gov/>

USGS **EarthExplorer** – Free aerial photography, DEM, and various satellite datasets including the **free Landsat archive**:  
<http://earthexplorer.usgs.gov/>

USGS Global Visualization Viewer (**GloVis**) – Various satellite and land characteristics datasets including the **free Landsat archive**:  
<http://glovis.usgs.gov/>

USGS Geographic Data Download Center – Free **DEM**, DLG, and LULC data:  
<http://edc2.usgs.gov/geodata/index.php>

USGS EROS Data Center **GTOPO30** – Free 1km DEM data:  
[http://eros.usgs.gov/Find\\_Data/Products\\_and\\_Data\\_Available/gtopo30\\_info/](http://eros.usgs.gov/Find_Data/Products_and_Data_Available/gtopo30_info/)

USGS EROS Hazards Data Distribution System (**HDDS**) – Hazards related imagery:  
<http://hdds.usgs.gov/hdds/>

U.S. **GeoData.gov** – A wide variety of raster and vector geospatial datasets:  
<http://www.geodata.gov/>

## Purchasable Satellite Imagery & Synthetic Aperture Radar Data

Abeo Geospatial – A variety of geospatial data products:  
<http://www.abeo.net/>

Alaska Satellite Facility – SAR data for scientific research and U.S. Gov't Agencies:  
<http://www.asf.alaska.edu/>

DigitalGlobe – QuickBird, WorldView-1 and WorldView-2 data:  
<http://www.digitalglobe.com/>

Digital Environmental Management – A variety of geospatial data products:  
<http://www.digitalenvironmental.ca/>

East View Cartographic – A variety of geospatial data products:  
<http://www.cartographic.com/>

eMap International – A variety of geospatial data products:  
<http://www.emap-int.com/>

ERSDAC – ASTER data:  
[http://www.gds.aster.ersdac.or.jp/gds\\_www2002/index\\_e.html](http://www.gds.aster.ersdac.or.jp/gds_www2002/index_e.html)

ESA Earthnet – ENVISAT (AATSR, ASAR, MERIS), ATSR and ERS data:  
<http://envisat.esa.int/>

E-Terra – A variety of geospatial data products:  
<http://www.e-terra.com/>

GeoAnalytic – A variety of geospatial data products:  
<http://www.geoanalytic.com/>

GeoEye – OrbView, IKONOS, GeoEye and SeaWiFS data:  
<http://www.geoeye.com/>

German Aerospace Center – E-SAR data:  
<http://www.dlr.de/hr/en/>

Harris ImageLinks – A variety of geospatial data products:  
<http://www.govcomm.harris.com/solutions/products/000047.asp>

i-cubed – A variety of geospatial data products:  
<http://www.i3.com/>

ImageSat International – EROS A data:  
<http://www.imagesatintl.com/>

ImStrat Corporation – A variety of geospatial data products:  
<http://www.imstrat.on.ca/>

Indian Space Research Organisation – IRS, CARTOSAT-1 and RISAT-1 data:  
<http://www.isro.org/>

Infoterra – TerraSAR-X data:  
<http://www.terrasar.de/>

Intermap Technologies – A variety of geospatial data products:  
<http://www.intermap.com/>

Italian Space Agency – COSMO-SkyMed data:  
<http://www.asi.it/en>

Iunctus Geomatics – A variety of geospatial data products:  
<http://www.terraengine.com/>

Japan Aerospace Exploration Agency – JERS-1 data:  
<http://www.eorc.jaxa.jp/JERS-1/en/index.html>

LAND INFO Worldwide Mapping – A variety of geospatial data products:  
<http://www.landinfo.com/>

LP DAAC Data Pool – ASTER and MODIS data:  
[http://lpdaac.usgs.gov/lpdaac/get\\_data/data\\_pool](http://lpdaac.usgs.gov/lpdaac/get_data/data_pool)

MapMart – A variety of geospatial data products:

<http://www.mapmart.com/>

McElhanney Consulting Services – A variety of geospatial data products:

<http://www.mcelhanney.com/mcsl/>

MDA Federal – A variety of geospatial data products:

<http://www.mdafederal.com/>

MDA Geospatial Services – RADARSAT-1 and RADARSAT-2 data:

<http://gs.mdacorporation.com/>

NASA Jet Propulsion Laboratory – TOPSAR/AIRSAR and SIR-C/X-SAR data:

<http://southport.jpl.nasa.gov/>

Natural Resources Canada – CEOcat:

<http://ceocat.ccrs.nrcan.gc.ca/>

Natural Resources Canada – Earth Observation Data Services:

<http://eods.nrcan.gc.ca/>

Orbisat Remote Sensing – OrbiSAR-1 data:

<http://www.orbisat.com.br/ingles/index.php>

Penobscot Corporation – A variety of geospatial data products:

<http://www.penobscotcorp.com/>

PhotoSat – A variety of geospatial data products:

<http://www.photosat.ca/>

RapidEye AG – RapidEye data:

<http://www.rapideye.de/>

RESTEC CROSS – ALOS (PRISM, PALSAR, AVNIR-2) data:

<https://cross.restec.or.jp/cross/CfcLogin.do?locale=en>

Satellite Imaging Corporation – A variety of geospatial data products:

<http://www.satimagingcorp.com/>

Spatial Energy – A variety of geospatial data products:

<http://www.spatialenergy.com/>

Spatial Solutions – A variety of geospatial data products:

<http://www.spatial-solutions.com/>

Spot Image – SPOT, KOMPSAT-2 and FORMOSAT-2 data:

<http://www.spot.com/>

TerraMetrics – A variety of geospatial data products:

<http://www.terrametrics.com/>

TerraServer – A variety of geospatial data products:

<http://www.terra-server.com/>

USDA Farm Service Agency – Ordering NAIP Imagery:

<http://www.fsa.usda.gov/FSA/apfoapp?area=home&subject=prog&topic=nai-or>

USGS EROS Data Center – AVHRR data:

[http://eros.usgs.gov/Find\\_Data/Products\\_and\\_Data\\_Available/AVHRR](http://eros.usgs.gov/Find_Data/Products_and_Data_Available/AVHRR)

VIASAT GeoTechnologies – A variety of geospatial data products:

<http://www.viasat-geo.com/>

Walsh Environmental – A variety of geospatial data products:

<http://www.walshenv.com/>

## Web Map Servers, Online Viewers & Virtual Globe Applications

Blue Marble Navigator:

<http://www.blue-marble.de/>

ESRI ArcExplorer:

<http://www.esri.com/software/arcexplorer/>

Flash Earth:

<http://www.flashearth.com/>

Google Earth:

<http://earth.google.com/>

Google Maps:

<http://maps.google.com/>

MapQuest:

<http://www.mapquest.com/>

Microsoft Bing Maps:

<http://www.bing.com/maps/>

NASA World Wind:

<http://worldwind.arc.nasa.gov/>

Norkart Virtual Globe:

<http://www.virtual-globe.info/>

OpenStreetMap:

<http://www.openstreetmap.org/>

SkylineGlobe:

<http://www.skylineglobe.com/>

TerraFly:

<http://terrafly.fiu.edu/>

USGS National Map Viewer:  
<http://nmviewogc.cr.usgs.gov/viewer.htm>

Wikimapia:  
<http://www.wikimapia.org/>

Yahoo! Maps:  
<http://maps.yahoo.com/>

## Hyperspectral Data & Spectroscopy Instrument Manufacturers

ASD (Boulder, CO):  
<http://www.asdi.com/>

AVIRIS (Jet Propulsion Laboratory, Pasadena, CA):  
<http://aviris.jpl.nasa.gov/>

Bodkin Design & Engineering (Wellesley Hills, MA):  
<http://www.bodkindesign.com/>

Earth Observing 1 (EO-1) Hyperion (USGS EROS Data Center, Sioux Falls, SD):  
<http://eo1.usgs.gov/hyperion.php>

Geospatial Systems (West Henrietta, NY):  
<http://www.geospatialsystems.com/>

Headwall Photonics (Fitchburg, MA):  
<http://www.headwallphotonics.com/>

HyVista (Sydney, Australia):  
<http://www.hyvista.com/>

ITRES Research (Calgary, AB):  
<http://www.itres.com/>

Norsk Elektro Optikk (Lørenskog, Norway):  
<http://www.neo.no/products/hyperspectral.html>

Ocean Optics (Dunedin, FL):  
<http://www.oceanoptics.com/>

Opto-Knowledge Systems (Torrance, CA):  
<http://www.techexpo.com/firms/oksi.html>

Photon etc. (Montréal, QB):  
<http://www.photonetc.com/>

RESONON (Bozeman, MT):  
<http://www.resonon.com/>



Specim (Oulu, Finland):  
<http://www.specim.com/>

SpecTIR (Reno, NV):  
<http://www.spectir.com/>

## Digital Spectral Libraries

**NOTE:** The ENVI software includes several public-domain spectral libraries within its distribution. The spectral library datasets are found in the "speclib/" subfolder of the ENVI installation, but the easiest way to access these libraries is to launch the "*Display > Spectral Library Viewer...*" tool within the ENVI software.

ASTER Spectral Library:  
<http://speclib.jpl.nasa.gov/>

ASU Thermal Emission Spectroscopy Laboratory Spectral Library:  
<http://tes.asu.edu/spectral/library/>

Caltech Mineral Spectroscopy Server:  
<http://minerals.gps.caltech.edu/>

CRISM Spectral Library:  
[http://pds-geosciences.wustl.edu/missions/mro/spectral\\_library.htm](http://pds-geosciences.wustl.edu/missions/mro/spectral_library.htm)

Fire Research And Management Exchange System (FRAMES) Library:  
<http://frames.nbii.gov/>

Janice Bishop's Spectral Library @ SETI:  
<http://jbishop.seti.org/spectral-library.html>

Johns Hopkins University Spectral Library:  
[http://speclib.jpl.nasa.gov/documents/jhu\\_desc](http://speclib.jpl.nasa.gov/documents/jhu_desc)

Reflectance Experiment Laboratory (RELAB) at Brown University:  
<http://www.planetary.brown.edu/relab/>

USGS Digital Spectral Library:  
<http://speclab.cr.usgs.gov/spectral-lib.html>

USGS View\_SPECPR – Software for Plotting Spectra:  
<http://pubs.usgs.gov/of/2008/1183/>

## Aerial Orthoimagery, Hyperspectral, LiDAR & Radar Data Providers

Ace Aerial (Oklahoma City, OK):  
<http://www.aceaerialphoto.com/>

Aerial Cartographics of America (Orlando, FL):  
<http://www.aca-net.com/>

Aerial Data Service (Tulsa, OK):

<http://www.aerialdata.com/>

Aerial Photomapping Services (Clovis, CA):

<http://www.photomapping.com/>

Aerial Surveys International (Watkins, CO):

<http://www.aerialsurveysintl.com/>

Aerial Viewpoint (Spring, TX):

<http://www.aerialviewpoint.com/>

Aero Geometrics (Vancouver, BC):

<http://www.aerogeo.com/>

Aero-Graphics (Salt Lake City, UT):

<http://www.aero-graphics.com/>

Aerial Insight (Brandon, MB):

<http://www.aerialinsight.com/>

Aerial Services (Cedar Falls, IA):

<http://www.aerialservicesinc.com/>

AERO-METRIC (Sheboygan, WI):

<http://www.aerometric.com/>

Airborne Data Systems (Redwood Falls, MN):

<http://www.airbornedatasystems.com/>

Airborne Sensing Corporation (Toronto, ON):

<http://www.airsensing.com/>

ASL Borstad Remote Sensing (Sidney, BC):

<http://www.borstad.com/>

ATLIS Geomatics (Winnipeg, MB):

<http://www.atlisgeo.com/>

Bohannon Huston (Albuquerque, NM):

<http://www.bhinc.com/>

Central Coast Aerial Mapping (San Luis Obispo, CA):

<http://www.aerial-maps.com/>

Continental Mapping Consultants (Sun Prairie, WI):

<http://www.continentalmapping.com/>

Cooper Aerial Surveys (Phoenix, AZ):

<http://www.cooperaerial.com/>

DAS (Dallas, TX):

<http://www.dasmaps.com/>

Digital Aerial Solutions (Tampa, FL):

<http://www.digitalaerial.com/>

Digital Mapping (Huntington Beach, CA):

<http://www.admap.com/>

Earth Search Sciences (Lakeside, MT):

<http://www.earthsearch.com/>

First Base Solutions (Markham, ON):

<http://www.firstbasesolutions.com/>

Fugro EarthData (Frederick, MD):

<http://www.earthdata.com/>

Galileo Group (Melbourne, FL):

<http://www.galileo-gp.com/>

Geo-Sky (Hobe Sound, FL):

<http://www.geosky.org/>

GeoVantage (Peabody, MA):

<http://www.geovantage.com/>

Golden Aerial Surveys (Newtown, CT):

<http://www.goldenaerialsurveys.com/>

Gulf Coast Aerial Mapping (Baton Rouge, LA):

<http://www.gcam-maps.com/>

HJW GeoSpatial & Pacific Aerial Surveys (Oakland, CA):

<http://www.hjw.com/>

James W. Sewall Company (Old Town, ME):

<http://www.sewall.com/>

Keystone Aerial Surveys (Philadelphia, PA):

<http://www.keystoneaerialsurveys.com/>

LasermapUSA (Birmingham, AL):

<http://www.lasermapusa.com/>

Lenska Aerial Images (Encinitas, CA):

<http://www.lenska.com/>

Mapcon Mapping (Salt Lake City, UT):

<http://www.mapconmapping.com/>

Merrick & Company (Aurora, CO):

<http://www.merrick.com/>

MJ Harden (Mission, KS):

<http://www.mjharden.com/>

North West Group (Calgary, AB):

<http://www.nwgeo.com/>

Olympus Aerial Surveys (Salt Lake City, UT):

<http://www.olympusaerialsurveys.com/>

Optech International (Kiln, MS):

<http://www.optech.ca/intl.htm>

Photo Science Geospatial Solutions (Lexington, KY):

<http://www.photoscience.com/>

Pictometry International Corp. (Rochester, NY):

<http://www.pictometry.com/>

Pixxures (Arvada, CO):

<http://www.pixxures.com/>

Potomac Aerial Surveys (Frederick, MD):

<http://www.potomacaerial.com/>

Range and Bearing Environmental Resource Mapping Corporation (Victoria, BC):

<http://www.awis.ca/>

Sanborn (Colorado Springs, CO):

<http://www.sanborn.com/>

Sky Research (Ashland, OR):

<http://www.skyresearch.com/>

Surdex (Chesterfield, MO):

<http://www.surdex.com/>

Taiga Air Services (Winnipeg, MB):

<http://www.taigaheli.com/>

The Sidwell Company (Saint Charles, IL):

<http://www.sidwellco.com/>

Valtus Imagery Services (Calgary, AB):

<http://www.valtus.com/>

Wilson & Company (Albuquerque, NM):

<http://www.wilsonco.com/>

Woolpert (Dayton, OH):

<http://www.woolpert.com/>