



## Spatial on Demand

Successful energy companies need a common operational picture for mapping, elevation and logistics in order to intimately understand exploration, production and development activities, both onshore and offshore. Used by many of the top 100 energy companies, Spatial on Demand is the world's largest professional-grade oil and gas geospatial solution. It enables quick and easy access across your enterprise to search, sort, select, share, and store geospatial data sets—directly in the workflows you already use.

### Features/Benefits

- Save time and money
  - With quick and easy access to the industry's largest array of mission-critical geospatial data sets, your team will spend less time searching and processing data and more time analyzing it.
- Data as an asset
  - Company-wide access to spatial data, information, and insight enables you to make decisions with confidence.
- Cloud Based—global delivery
  - Numerous options allow you to use imagery and geospatial data in your application of choice as well as via hardcopy.
- Global imagery basemap
  - Streaming services directly into your workflow include the DigitalGlobe Basemap Suite, which features the most accurate, most recent, and best resolution satellite imagery available, while providing huge cost savings over traditional means of image acquisition.
- Find and use data
  - Search, sort, filter, and compare energy-specific data from numerous sources all in a single on-stop-shop platform.
- Clip, zip, and ship
  - Download capabilities enable data to be used in the field of destinations with no internet connectivity.
- Global access and control
  - Collaborate and share across the entire organization including contractors with no hidden user or transaction costs.
- Fast global performance
  - Map services allow for the fastest delivery of data even to remote locations with service levels of 99.9% uptime.
- Private data hosting
  - Ingesting, hosting, and serving of your proprietary data in secured cloud environment.

### Global data sets

- DigitalGlobe Basemap +Energy
- 70+ foundational data sets
- Google Maps
- Bing Maps
- TCarta Marine bathymetry
- Landsat natural color
- Landsat 7,4,2 bands
- SRTM DEMs
- ASTER GDEM v2
- GEBCO Global Bathymetry
- USGS World Geologic Maps

### Regional data sets

- Australia
- Canada
- Europe, Middle East, Africa
- South America
- United States

### Premium data sets

- Aerial Imagery
- Custom bathymetry
- Lidar / Radar
- Satellite imagery archive / tasking
- Offshore Seeps

## PLATFORM

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## Subscription types

Spatial On Demand is available in two subscription options, both specially designed to save your teams time and money. Our streaming service suits smaller companies and our enterprise service is ideal for mid-to-large sized firms.

### Streaming

- Access more than 40 mission-critical foundation datasets, including imagery, elevation topographic maps, bathymetry, and many more that are widely used across oil and gas workflows, along with the DigitalGlobe Basemap Suite.
- Ensure all users are viewing the most recent data.
- Save time and resources otherwise spent on collecting, processing, or storing large datasets.

### Enterprise

- Host your own data in Spatial on Demand so your end users can access your proprietary image archives in addition to our rich foundation data sets and enhanced access to our DigitalGlobe Basemap Suite imagery products.
- Access to cloud-based dashboard, where you can search, discover, view, and download your imagery.

## Delivery options

Access geospatial data the way oil and gas teams already work today, with no new software or hardware needed. Support your global users by streaming data directly into custom web applications, GIS packages, or Geology/Geophysical applications.

**Spatial on Demand streaming services integrate seamlessly with all major G&G applications.**

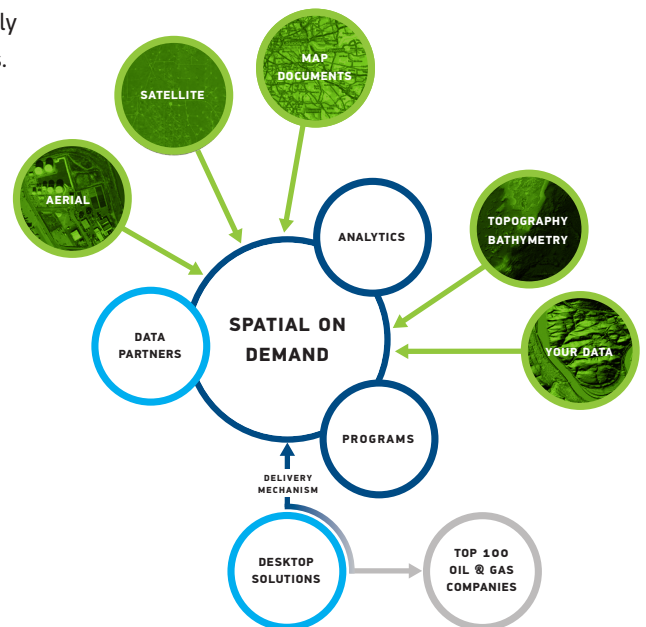
- |                        |                           |
|------------------------|---------------------------|
| ◦ Esri ArcGIS          | ◦ IHS Petra               |
| ◦ Geographix: GeoAtlas | ◦ Mesa Professional       |
| ◦ Global Energy Mapper | ◦ Petrel                  |
| ◦ Google Earth         | ◦ Petrosys                |
| ◦ IHS Kingdom          | ◦ Landmark Decision Space |

### Industry applications

- New ventures
- Exploration
- Logistics & mapping
- Reservoir planning
- Downstream
- Regulatory / legal
- Health, environment, & safety
- Midstream
- Utilities

### Cloud services

- Web Map Service: WMS
- Web Map Tile Service: WMTS
- Web Coverage Service: WCS
- Web Feature Service: WFS
- Esri ArcGIS Server Services
- Bing Maps API
- Web API - REST/SOAP





# SPATIAL ON DEMAND 5.0 - UNITED STATES

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	Foundation data	Premium data
<b>IMAGERY</b>	<p><b>Spatial on Demand Basemap (NAIP)</b> <i>Global:Imagery:Spatial on Demand Basemap</i> Spatial on Demand's Global Imagery Basemap. This is a combination of US NAIP 1m, MODIS 30m, and LandSat 15m imagery covering the entire globe.</p> <p><b>Texas 2015 Orthoimagery Project</b> <i>US:Imagery:Texas 2015 Orthoimagery Project</i> A collaborative initiative by the Texas Natural Resources Information System (TNRIS) to capture high-quality (50cm), leaf-off imagery for the entire state of Texas between October 2014 and August 2015, released in Spring of 2016.</p> <p><b>Landsat 7 Natural Color Imagery</b> <i>Global:Imagery:LandSat NC</i> Seamless 15m resolution Landsat Natural Color imagery, covering most of the globe.</p> <p><b>Landsat 7, 4, 2 Global Basemap</b> <i>Global:Geol:LandSat 7,4,2</i> Seamless 15m resolution Landsat imagery presented using the 7, 4 and 2 band combination, covering most of the globe.</p> <p><b>eDOQQ Historic</b> <i>US:Imagery:eDOQQ Historic</i> USGA panchromatic aerial photography collected in 1993, covers US lower 48 states, parts of Alaska, Hawaii, and Puerto Rico.</p> <p><b>European Space Agency (ESA) Global Land Cover</b> <i>Global:Imagery:ESA Land Cover</i> European Space Agency [ESA] Ionia GlobCover, 300m resolution land cover data, covering the globe.</p> <p><b>NLCD Land Cover 2011</b> <i>US:Imagery:NLCD-Land Cover-2011</i> 2011 version of the USGS National Land Cover Database thematic representation of Land Cover, for the conterminous US.</p> <p><b>USGS Landfire Existing Vegetation Cover</b> <i>Imagery:Partial:US:USGS Landfire Existing Vegetation Cover</i> The Existing Vegetation Cover represents the percent cover of the live canopy layer for a 30-m grid cell. EVC is generated separately for tree, shrub and herbaceous cover lifeforms using training data and other layers.</p> <p><b>USGS Landfire Existing Vegetation Height</b> <i>Imagery:Partial:US:USGS Landfire Existing Vegetation Height</i> The Existing Vegetation Cover represents the vertically projected percent cover of the live canopy layer for a 30-m grid cell. EVC is generated separately for tree, shrub and herbaceous cover lifeforms using training data and other layers.</p>	<p><b>DigitalGlobe Imagery</b> <i>Global:Imagery:DigitalGlobe Imagery</i> This basemap delivers visually appealing 30cm to 50cm earth imagery from a combination of DigitalGlobe and Mapbox imagery across the globe.</p> <p><b>DigitalGlobe Most Recent</b> <i>Global:Imagery:DigitalGlobe Most Recent</i> The most recent imagery collected by DigitalGlobe satellites across the globe. This basemap is a combination of Refresh USA and DigitalGlobe Global Basemap Most Recent. Full metadata included.</p> <p><b>DigitalGlobe Best Resolution</b> <i>Global:Imagery:DigitalGlobe Best Resolution</i> This basemap delivers 30cm only imagery collected by the WorldView3 satellite, covering parts of the globe where 30cm imagery is available. Full metadata included.</p> <p><b>Spatial on Demand Global Aerial Program</b> 15-30 cm aerial photography acquisition, available anywhere in the world.</p> <p><b>DigitalGlobe High-Resolution Imagery</b> 30-80 cm imagery archive and new collection available for all DigitalGlobe sensors.</p> <p><b>Airbus High-Resolution Imagery</b> 50 cm imagery archive and new collection available for Pleiades 1A and Pleiades 1B.</p> <p><b>Airbus Medium-Resolution Imagery</b> 1.5-20 m new collection, and 2.5 m country or regional mosaics available for SPOT 4, SPOT5, and SPOT6.</p> <p><b>Blackbridge Medium-Resolution Imagery</b> 5 m imagery archive and new collection available for Rapid Eye constellation.</p> <p><b>Bing Maps Imagery Basemap</b> <i>Global:Imagery:Bing Maps</i> Bing Maps consumer-grade imagery basemap that contains 30 cm+ aerial where available.</p> <p><b>Bing Maps Hybrid Imagery Basemap</b> <i>Global:Imagery:Bing Maps Hybrid</i> Consumer-grade hybrid imagery overlay that combines Bing maps imagery with BingMaps Streets vectors.</p> <p><b>Google Maps Imagery</b> <i>Global:Imagery:Google Maps Imagery</i> Google Maps 15cm+ imagery, same as available on Google Maps web applications, covering the globe.</p>
<b>TERRAIN</b>	<p><b>DigitalGlobe Terrain</b> <i>Global:Elev:DigitalGlobe Terrain</i> Curated by Mapbox, this seamless basemap delivers a visually appealing terrain perspective. Shaded terrain with contours help guide you along the landscape, and OpenStreetMap reference vectors provide complete locational context.</p> <p><b>Spatial on Demand Topographic Map</b> <i>Global:Elev:Spatial on Demand Topographic Map</i> Topographic maps of the USA and Canada. Geology back drop for global base map coverage.</p> <p><b>USGS 10m National Elevation Dataset (NED)</b> <i>US:Elev:10m NED Hillshade</i> Spatial on Demand Foundation Dataset. 10m and 30m grayscale hillshade digital elevation model (DEM) published by USGS, for the conterminous US.</p> <p><b>USGS Alaska 5m National Elevation Dataset (NED)</b> <i>US:Elev:Alaska NED Hillshade 5m</i> Spatial on Demand Foundation Dataset. Grayscale hillshade representation of the National Elevation Dataset 5m elevation model for portions of Alaska.</p>	<p><b>Vricon Digital Surface Models (DSM)</b> Global 2 m posted DSM with 3 m absolute accuracy, derived from DigitalGlobe's vast image archive.</p> <p><b>DigitalGlobe Satellite Derived Digital Elevation Models (DEM)</b> DigitalGlobe's Advanced Elevation Series high-resolution 2-8 m digital surface models (DSM) for various locations and custom collects around the globe.</p> <p><b>Spatial on Demand Aerial LiDAR Elevation Data</b> 1-5 m LiDAR archive and new collection, from DigitalGlobe.</p> <p><b>Intermap NEXTMap 5 m Digital Surface Model (DSM) @ Digital Terrain Model (DTM)</b> Digital surface model (DSM) @ Digital Terrain Model (DTM) derived at 5 m using IFSAR technology, covering entire 48 contiguous United States.</p> <p><b>Airbus WorldDEM</b> Derived from stereo radar pairs collected by Airbus Defense and Space GEO's twin satellites, TerraSAR X @ TanDEM-X, WorldDEM features 12 m resolution with global availability.</p>



# SPATIAL ON DEMAND 5.0 - UNITED STATES

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TERRAIN (CONTINUED)	<p><b>USGS 3m National Elevation Dataset (NED)</b>  <i>US:Elev:NED Hillshade 3m</i>            Spatial on Demand Foundation Dataset. Grayscale hillshade representation of the National Elevation Dataset 3m elevation model for portions of the conterminous US.</p> <p><b>USGS 1m National Elevation Dataset (NED)</b>  <i>US:Elev:NED Hillshade 1m</i>            Spatial on Demand Foundation Dataset. Grayscale hillshade representation of the National Elevation Dataset 1m elevation model for portions of the conterminous US.</p> <p><b>USGS The National Map (TNM) Topographic Maps</b>  <i>US:Elev:USGS TheNationalMap Topographic Maps</i>            USGS TMN Digital Topographic Map dataset, direct from USGS map servers, available at scales from Global to 1:1,000 with higher resolution scale updates as released by USGS.</p> <p><b>USGS The National Map (TNM) NED Hillshade Hybrid</b>  <i>US:Elev:USGS TheNationalMap NED Hillshade</i>            USGS TNM NED Hill shade dataset, direct from USGS map serves, available at scales from Global to 1:1,000 with higher resolution scale updates as released by USGS.</p> <p><b>USGS Scanned Topographic Maps (eTOPO)</b>  <i>US:Elev:eTOPO</i>            Seamless USGS DRG topographic maps with the collars removed, for the entire US. Also available in hill shade version.</p> <p><b>eTOPO Alaska 63K Topographic Maps</b>  <i>US:Partial:Elev:eTOPO Alaska 63K Topographic Fla</i>            Seamless USGS DRG topographic maps with the collars removed, covering Alaska at a scale of 1:63K.</p> <p><b>USGS DRG Topographic and Imagery Hybrid</b>  <i>US:Elev:Topographic and Imagery Hybrid</i>            Hybrid USGS DRG topographic maps with the collars removed, for the entire US with Imagery Transparency. Optimal for PETRA use.</p> <p><b>NOAA ETOPO1 Bedrock</b>  <i>Global:Elev:ETOPO1 Bedrock</i>            A 1 arc-minute relief model of Earth's surface, depicting both topography and bathymetry of the bedrock underneath the ice sheets, for the entire globe.</p> <p><b>Shuttle Radar Topography Mission (SRTM) 30m</b>  <i>Global:Elev:SRTM 30 Hillshade-Gray</i>            Spatial on Demand Foundation Dataset. Grayscale hillshade representation of the 30m NASA SRTM Canopy DEM, covering most of the globe. Most recent release.</p> <p><b>Shuttle Radar Topography Mission (SRTM) 90m Color &amp; Gray</b>  <i>Global:Elev:SRTM Hillshade-Color &amp; Gray</i>            Gray or color-ramped hillshade representation of the 90m NASA SRTM Canopy DEM, covering most of the globe.</p> <p><b>Landsat 7, 4, 2 and SRTM 90m Hillshade</b>  <i>Global:Hybrid:LandSat 7,4,2 and SRTM Hillshade</i>            Combination of Landsat 7,4,2 and SRTM 90m grayscale hillshade.</p> <p><b>LiDAR Digital Elevation Models (DEM)</b>  <i>US:Partial:Elev:LiDAR Gray &amp; Color</i>            Seamless 1 m, 3 m, and 5 m state DNR published LiDAR DEM mosaic datasets—coverage in specific areas of TX, LA, PA, OH, &amp; AK.</p> <p><b>Bureau of Land Management (BLM) 100,000 Topographic Maps</b>  <i>US:Elev:BLM Topographic Flat &amp; Hillshade</i>            Spatial on Demand Foundation Dataset. Seamless mosaic of 1:100,000 scale BLM topographic maps with the collars removed. Only available for US Western states.</p>	<p><b>Airbus TerraSAR-X Elevation</b>            High-resolution 12 m posting digital elevation models (DEM) derived from Astrium TerraSAR-X and TanDEM-X constellation collections.</p> <p><b>PhotoSat DEM</b>            Custom 1–5 m digital elevation model (DEM) derived from high-resolution stereographic satellite imagery, including DigitalGlobe and Astrium satellite sensors.</p>



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TERRAIN (CONT)	<p><b>ASTER v2 30 m DEM-Gray &amp; Color</b>  <i>Global:Elev:ASTER GDEM v2 Hillshade-Gray &amp; Color</i>                      Color-ramped hillshade representation of Version 2 of the Advanced Spaceborne Thermal Emission and Reflection Radiometer, 30m posting elevation data. A product of METI and NASA.</p> <p><b>GEBCO 2014 30 arc-second Relief Model Onshore</b>  <i>Global:Bathy:GEBCO</i>                      The General Bathymetric Chart of the Oceans (GEBCO), one-arc minute gridded bathymetry along with SRTM30 terrains synthesized into a global relief model hillshade. Source: www.gebco.net.</p>	
MARINE	<p><b>GEBCO 2014 30 arc-second Relief Model</b>  <i>Global:Bathy:GEBCO</i>                      The General Bathymetric Chart of the Oceans (GEBCO), one-arc minute gridded bathymetry along with SRTM30 terrains synthesized into a global relief model hillshade. Source: www.gebco.net.</p> <p><b>USGS 1,000,000 Scale Bathymetry</b>  <i>North America:Bathy:USGS 1Million-Scale Contours</i>                      1:1,000,000-scale bathymetry contours, published by USGS the National Map.</p> <p><b>Gulf of Mexico Contours</b>  <i>US:Bathy:Gulf of Mexico</i>                      Bathymetric contours based on ETOPO1 - 1 arc-minute global relief model, covering the Gulf of Mexico.</p> <p><b>ESRI Ocean Basemap</b>  <i>Global:Reference:ESRI Ocean Basemap</i>                      Continuous coverage for the Globe of Ocean Bathymetry, including seafloor features from ESRI Online, with hillshade effect.</p>	<p><b>Astrium Global Offshore Seeps Database</b>                      Global Seeps is a non-exclusive database of offshore oil slicks, containing more than 22,000 potential seepage slicks identified, including slick source points, slick vectors, probable slick type, and confidence levels.</p> <p><b>TCarta Marine Geospatial Products</b>                      TCarta Marine's suite of bathymetric data for every part of the world. Soundings, contours, hillshade and more from the coast to the continental shelf and beyond for a wide range of applications.</p> <p><b>National Geospatial-Intelligence Agency (NGA) Nautical Charts</b>                      Unclassified, vector-based digital database containing maritime significant features essential for safe marine navigation, including global marine navigation between 84 North latitude and 81 South latitude.</p>
GEOLOGY	<p><b>USGS Statewide Geologic Map Database</b>  <i>US:Geol:Statewide USGS Geologic Maps Database</i>                      A statewide overlay layer of geologic units and structural features lithology, age, and data structure published by USGS Mineral Data Resources team.</p> <p><b>Isostatic Gravity</b>  <i>US:Geol:Isostatic Gravity</i>                      USGS isostatic residual gravity anomaly data produced from the grid of Bouguer gravity anomaly data (see Bouguer gravity metadata) by using an Airy-Heiskanen compensation model with three parameters. Covering the conterminous U.S.</p> <p><b>Bouguer Gravity</b>  <i>US:Geol:Bouguer Gravity</i>                      Gravity anomaly data for the conterminous United States and adjacent marine areas was constructed from National Information Mapping Agency (NIMA) gravity data files.</p> <p><b>USGS Magnetic Anomaly</b>  <i>NA:Geol:USGS Airborne Magnetic Anomaly</i>                      Sources directly from USGS, this Airborne Magnetic Anomaly layer details total intensity of the Earth's magnetic field after removal of the International Geomagnetic Reference Field (IGRF).</p> <p><b>Sandwell v23 Vertical Gravity Anomaly</b>  <i>Global:Gravity:Sandwell v23 Vertical Gravity Gradient</i>                      Grey scale (60 EOTVOS units) represent variations in the vertical gravity gradient associated with variations in mass inside the earth or beneath the ocean. The vertical gravity gradient is a high-pass filtered version of gravity that reveals the locations of seamounts and plate boundaries in areas where bathymetry data is not available.</p> <p><b>EMAG2 Gravity Anomaly</b>  <i>Global:Geol:EMAG2 Magnetic Anomaly</i>                      Earth Magnetic Anomaly Grid is a 2 arc-minute resolution grid of the anomaly of the magnetic intensity at an altitude of 4 km above mean sea level, and covers most of the globe.</p>	





	Foundation data	Premium data
REFERENCE	<p><b>DigitalGlobe Streetmap</b>  <i>Global:Reference:DigitalGlobe StreetMap</i>                      Seamless basemap that delivers an accurate street map that is based on contributions from the OpenStreetMap Community. With global-coverage, this curated and enhanced basemap from Mapbox provides the ultimate local knowledge about the world. Available as a transparent layer, as well.</p> <p><b>Spatial on Demand Global Reference Basemap</b>  <i>Global:Reference:Boundaries and Streets</i>                      General map of boundaries, roads, and cultural reference basemap, covering the globe.</p> <p><b>USGS Benchmarks</b>  <i>US:Reference:USGS Benchmarks</i>                      Transparent layer displaying USGS Benchmark locations. Limited to United States and territories; Zoom levels 1:1 to 1:499,000.</p> <p><b>OpenStreetMap Basemap</b>  <i>Global:Reference:OpenStreetMap</i>                      Spatial on Demand Foundation Dataset. Global vector basemap depicting transportation, culture, physical, commercial, and natural elements as found on the surface of the Earth.</p> <p><b>ESRI World Street Map</b>  <i>Global:Reference:ESRI World Street Map</i>                      This comprehensive street map includes highways, major roads, one-way arrow indicators, railways, water features, cities, parks, landmarks, building footprints and administrative boundaries overlaid on shaded relief for added context.</p> <p><b>Bing Maps Street Basemap</b>  <i>Global:Reference:Bing Maps Vintage</i>                      Consumer-grade street, reference, and cultural basemap with global coverage and updates from BingMaps.com.</p> <p><b>FEMA National Flood Hazards</b>  <i>US:FEMA:National Flood Hazard Layers- NFHL</i>                      Digital Flood Hazard Zones - contains information about the flood hazards within the flood risk project area. These zones are used by FEMA to designate the SFHA and for insurance rating purposes. These data are the regulatory flood zones designated by FEMA.</p> <p><b>US Natural Resources Conservation Service(NRCS) Soil Survey Database</b>  <i>US:USDA NRCS:SoilSurvey MapUnits</i>                      US Natural Resources Conservation Service(NRCS) Soil Survey Database (SSURGO) web services containing map unit-level soils classification.</p> <p><b>BLM Areas of Critical Environmental Concern</b>  <i>US:BLM:Areas of Critical Environmental Concern</i>                      This is an aggregate national dataset describing the geographic boundaries of Areas of Critical Environmental Concern (ACEC) on public lands managed by the BLM. The designated ACECs are "areas within the public lands where special management attention is required to protect and prevent irreparable damage to important historic, cultural, or scenic values, fish and wildlife resources or other natural systems or processes, or to protect life and safety from natural hazards. In addition, the significance of these values and resources must be substantial in order to satisfy the importance criteria."</p>	
WEATHER	<p><b>Recent Satellite Emulated Lightning Strike Density Imagery</b>  <i>Global:Reference:Global Lightning Strike Density</i>                      15-minute Satellite Emulated Lightning Strike Density imagery for the last several hours.</p> <p><b>Recent Weather Radar Imagery</b>  <i>US:Reference:Recent Weather Radar Data</i>                      Weather Radar (NEXRAD) Reflectivity Mosaics from NOAA MRMS for Alaska, CONUS, Puerto Rico, Guam, and Hawaii for last several hours.</p>	



	Foundation data	Premium data
WEATHER (CONTINUED)	<p><b>Near-Real-Time Surface In-Situ Observations</b>  <i>Global:Reference:Surface In-Situ Observations</i>                      Map displaying the latest surface weather and marine weather observations from land stations and overwater observing platforms for USA and other countries.</p> <p><b>Tropical Cyclones - Watches, Warnings, and Track Intensity Forecasts</b>  <i>US:Reference:Tropical Cyclones - Watches, Warnings, &amp; Forecasts</i>                      Map displaying the latest NWS National Hurricane Center (NHC) and Central Pacific Hurricane Center (CPHC) tropical storm and hurricane watches and warnings for the immediate coastline along with track, cone of uncertainty and intensity forecasts for tropical cyclones.</p> <p><b>Short-Duration Hazards - Watches and Warnings</b>  <i>US:Reference:Short-Duration Hazards - Watches and Warnings</i>                      Map displaying the latest NWS watches for short-duration hazards including Severe Thunderstorm Watches, Tornado Watches, and Flash Flood Watches and more. Current watches legend available <a href="#">here</a>. Current Warnings legend available <a href="#">here</a>.</p> <p><b>Long-Duration Hazards - Watches, Warnings and Advisories</b>  <i>US:Reference:Long-Duration Hazards - Watches, Warnings, &amp; Advisories</i>                      Map displaying the latest NWS watches, warnings and advisories for long-duration hazards such as high winds, hazardous seas, surf and beach conditions, river and coastal flooding, reduced visibility, freezing spray, cold and heat, frosts and freezes, snow and freezing precipitation, hazardous wildfire conditions, and hazardous air quality and more. Current legend available <a href="#">here</a>.</p> <p><b>Recent GOES Weather Satellite Imagery</b>  <i>Partial:Imagery:Recent GOES Weather Satellite Imagery</i>                      Composites of NOAA-NESDIS GOES WEST-EAST Weather Satellite Imagery (Visible, Infrared and Water Vapor) for last several hours.</p> <p><b>Gridded Surface Weather and Marine Weather Forecasts - Significant Wave Height</b>  <i>US:Reference:Significant Wave Height</i>                      Maps displaying the latest gridded forecasts of significant wave heights at 6 hourly forecast projections for the next 72 hours.</p> <p><b>Oceanographic Forecast Model - East Coast and Gulf of Mexico</b>  <i>US:Reference:Oceanographic Forecast Model</i>                      Maps displaying the latest gridded surface oceanographic forecast model guidance. The variables include combined water level (tides + surge), surge, and tides out to 120 hours. The horizontal resolution is 1.6 miles (2.5 km).</p> <p><b>Oceanographic Forecast Model - Global Ocean</b>  <i>Global:Reference:Oceanographic Forecast Model</i>                      Maps displaying the latest gridded surface oceanographic forecast model guidance for the global ocean from the NOAA-NWS Global Real-Time Ocean Forecast System (GRTOFS). The variables include water currents, salinity, and water temperature out to 96 hours.</p>	

SPATIAL ON DEMAND 5.0 - GLOBAL

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	Foundation data	Premium data
IMAGERY	<p><b>Spatial on Demand Basemap</b>  <i>Global:Imagery:Spatial on Demand Basemap</i>                      Spatial on Demand's Global Imagery Basemap. This is a combination of US NAIP 1m, MODIS 30m, and LandSat 15m imagery covering the entire globe.</p> <p><b>Landsat 7 Natural Color Imagery</b>  <i>Global:Imagery:LandSat NC</i>                      Seamless 15m resolution Landsat Natural Color imagery, covering most of the globe.</p> <p><b>Landsat 7, 4, 2 Global Basemap</b>  <i>Global:Geol:LandSat 7,4,2</i>                      Seamless 15m resolution Landsat imagery presented using the 7, 4 and 2 band combination, covering most of the globe.</p> <p><b>Corine Land Cover</b>  <i>EUR:Imagery:Corine Land Cover</i>                      Corine (Coordination of Information on the Environment) is a project coordinated by the European Environmental Agency (EEA). This dataset is an inventory of land cover in 44 classes at a scale of 1:100 000.</p> <p><b>European Space Agency (ESA) Global Land Cover</b>  <i>Global:Imagery:ESA Land Cover</i>                      European Space Agency [ESA] Ionia GlobCover, 300m resolution land cover data, covering the globe.</p>	<p><b>DigitalGlobe Imagery</b>  <i>Global:Imagery:DigitalGlobe Imagery</i>                      This basemap delivers visually appealing 30cm to 50cm earth imagery from a combination of DigitalGlobe and Mapbox imagery across the globe.</p> <p><b>DigitalGlobe Most Recent</b>  <i>Global:Imagery:DigitalGlobe Most Recent</i>                      The most recent imagery collected by DigitalGlobe satellites across the globe. This basemap is a combination of Refresh USA and DigitalGlobe Global Basemap Most Recent. Full metadata included.</p> <p><b>DigitalGlobe Best Resolution</b>  <i>Global:Imagery:DigitalGlobe Best Resolution</i>                      This basemap delivers 30cm only imagery collected by the WorldView3 satellite, covering parts of the globe where 30cm imagery is available. Full metadata included.</p> <p><b>Spatial on Demand Global Aerial Program</b>                      15–30 cm aerial photography acquisition, available anywhere in the world.</p> <p><b>DigitalGlobe High-Resolution Imagery</b>                      30–80 cm imagery archive and new collection available for all DigitalGlobe sensors.</p> <p><b>Airbus High-Resolution Imagery</b>                      50 cm imagery archive and new collection available for Pleiades 1A and Pleiades 1B.</p> <p><b>Airbus Medium-Resolution Imagery</b>                      1.5–20 m new collection, and 2.5 m country or regional mosaics available for SPOT 4, SPOT5, and SPOT6.</p> <p><b>Blackbridge Medium-Resolution Imagery</b>                      5 m imagery archive and new collection available for Rapid Eye constellation.</p> <p><b>Bing Maps Imagery Basemap</b>  <i>Global:Imagery:Bing Maps</i>                      Bing Maps consumer-grade imagery basemap that contains 30 cm+ aerial where available.</p> <p><b>Bing Maps Hybrid Imagery Basemap</b>  <i>Global:Imagery:Bing Maps Hybrid</i>                      Consumer-grade hybrid imagery overlay that combines Bing maps imagery with BingMaps Streets vectors.</p> <p><b>Google Maps Imagery</b>  <i>Global:Imagery:Google Maps Imagery</i>                      Google Maps 15cm+ imagery, same as available on Google Maps web applications, covering the globe.</p>
TERRAIN	<p><b>DigitalGlobe Terrain</b>  <i>Global:Elev:DigitalGlobe Terrain</i>                      Curated by Mapbox, this seamless basemap delivers a visually appealing terrain perspective. Shaded terrain with contours help guide you along the landscape, and OpenStreetMap reference vectors provide complete locational context.</p> <p><b>NOAA ETOPO1 Bedrock</b>  <i>Global:Elev:ETOPO1 Bedrock</i>                      A 1 arc-minute relief model of Earth's surface, depicting both topography and bathymetry of the bedrock underneath the ice sheets, for the entire globe.</p> <p><b>Shuttle Radar Topography Mission (SRTM) 30m</b>  <i>Global:Elev:SRTM 30 Hillshade-Gray</i>                      Spatial on Demand Foundation Dataset. Grayscale hillshade representation of the 30m NASA SRTM Canopy DEM, covering most of the globe. Most recent release.</p> <p><b>Shuttle Radar Topography Mission (SRTM) 90m Color &amp; Gray</b>  <i>Global:Elev:SRTM Hillshade-Color &amp; Gray</i>                      Gray or color-ramped hillshade representation of the 90m NASA SRTM Canopy DEM, covering most of the globe.</p>	<p><b>Vicon Digital Surface Models (DSM)</b>                      Global 2 m posted DSM with 3 m absolute accuracy, derived from DigitalGlobe's vast image archive.</p> <p><b>DigitalGlobe Satellite Derived Digital Elevation Models (DEM)</b>                      DigitalGlobe's Advanced Elevation Series high-resolution 2–8 m digital surface models (DSM) for various locations and custom collects around the globe.</p> <p><b>Spatial on Demand Aerial LiDAR Elevation Data</b>                      1–5 m LiDAR archive and new collection, from DigitalGlobe.</p> <p><b>Intermap NEXTMap 5 m Digital Surface Model (DSM) &amp; Digital Terrain Model (DTM)</b>                      Digital surface model (DSM) &amp; Digital Terrain Model (DTM) derived at 5 m using IFSAR technology, covering entire 48 contiguous United States.</p> <p><b>Airbus WorldDEM</b>                      Derived from stereo radar pairs collected by Airbus Defense and Space GEO's twin satellites, TerraSAR X &amp; TanDEM-X, WorldDEM features 12 m resolution with global availability.</p>





	Foundation data	Premium data
TERRAIN (CONTINUED)	<p><b>Landsat 7, 4, 2 and SRTM 90m Hillshade</b>  <i>Global:Hybrid:LandSat 7,4,2 and SRTM Hillshade</i>            Combination of Landsat 7,4,2 and SRTM 90m grayscale hillshade.</p> <p><b>Australian NATMAP Topographic Map</b>  <i>AUS:GeoscienceAus:NATMAP250k:TOPO:2008</i>            Digital raster mosaics of all the Australian NATMAP 1:250 000 scale topographic maps from 2008.</p> <p><b>Canadian Topographic Maps</b>  <i>CAN:Elev:Topographic</i>            Topographic Maps [1:50k scale] from the Canadian Mapping Corporation, covering Southern Canada.</p> <p><b>Canadian Digital Elevation Data</b>  <i>CAN:Elev:CDED 50k DEM</i>            Hillshade representation of Canadian Digital Elevation Data [CDED]. Derived at 50k, with 15m display resolution, covering most of Canada.</p> <p><b>Spatial on Demand Topographic Map</b>  <i>Global:Elev:Spatial on Demand Topographic Map</i>            Topographic maps of the USA and Canada. Geology back drop for global base map coverage.</p> <p><b>ASTER v2 30 m DEM-Gray &amp; Color</b>  <i>Global:Elev:ASTER GDEM v2 Hillshade-Gray &amp; Color</i>            Spatial Energy Foundation Dataset. Color-ramped hillshade representation of Version 2 of the Advanced Spaceborne Thermal Emission and Reflection Radiometer, 30m posting elevation data. A product of METI and NASA.</p> <p><b>GEBCO 2014 30 arc-second Relief Model Onshore</b>  <i>Global:Bathy:GEBCO</i>            The General Bathymetric Chart of the Oceans (GEBCO), one-arc minute gridded bathymetry along with SRTM30 terrains synthesized into a global relief model hillshade. Source: www.gebco.net.</p>	<p><b>Airbus TerraSAR-X Elevation</b>            High-resolution 12 m posting digital elevation models (DEM) derived from Astrium TerraSAR-X and TanDEM-X constellation collections.</p> <p><b>PhotoSat DEM</b>            Custom 1–5 m digital elevation model (DEM) derived from high-resolution stereographic satellite imagery, including DigitalGlobe and Astrium satellite sensors.</p>
MARINE	<p><b>GEBCO 2014 30 arc-second Relief Model</b>  <i>Global:Bathy:GEBCO</i>            The General Bathymetric Chart of the Oceans (GEBCO), one-arc minute gridded bathymetry along with SRTM30 terrains synthesized into a global relief model hillshade. Source: www.gebco.net.</p> <p><b>Australia 50m Multibeam Bathymetry</b>  <i>Australia:Bathy:50m Multibeam</i>            50m multibeam bathymetry for Australia, from Geoscience Australia. This dataset is a tiled compilation of all the multibeam data held by Geoscience Australia lying within the outer edge of the offshore area of Australia, as well as some data in international waters, as of August 2012.</p> <p><b>ESRI Ocean Basemap</b>            Continuous coverage for the Globe of Ocean Bathymetry, including seafloor features from ESRI Online, with hillshade effect.</p>	<p><b>Astrium Global Offshore Seeps Database</b>            Global Seeps is a non-exclusive database of offshore oil slicks, containing more than 22,000 potential seepage slicks identified, including slick source points, slick vectors, probable slick type, and confidence levels.</p> <p><b>TCarta Marine Geospatial Products</b>            TCarta Marine's suite of bathymetric data for every part of the world. Soundings, contours, hillshade and more from the coast to the continental shelf and beyond for a wide range of applications.</p> <p><b>National Geospatial-Intelligence Agency (NGA) Nautical Charts</b>            Unclassified, vector-based digital database containing maritime significant features essential for safe marine navigation, including global marine navigation between 84 North latitude and 81 South latitude.</p>
GEOLOGY	<p><b>EMAG2 Gravity Anomaly</b>  <i>Global:Geol:EMAG2 Magnetic Anomaly</i>            Earth Magnetic Anomaly Grid is a 2 arc-minute resolution grid of the anomaly of the magnetic intensity at an altitude of 4 km above mean sea level, and covers most of the globe.</p> <p><b>Sandwell v23 Vertical Gravity Anomaly</b>  <i>Global:Gravity:Sandwell v23 Vertical Gravity Gradient</i>            Grey scale (60 EOTVOS units) represent variations in the vertical gravity gradient associated with variations in mass inside the earth or beneath the ocean. The vertical gravity gradient is a high-pass filtered version of gravity that reveals the locations of seamounts and plate boundaries in areas where bathymetry data is not available.</p>	



	Foundation data	Premium data
<b>GEOLOGY (CONTINUED)</b>	<p><b>Australian Regolith Terrain</b>  <i>AUS:GA:Regolith_Terrain_of_AUS</i>                      Australia has been divided into 392 Regolith Terrain Units on the basis of dominant topography, geology and regolith. Full details available in BMR Record 1986-27 has been used to attribute this dataset.</p> <p><b>Australian Bouguer Onshore &amp; Offshore Gravity 2009</b>  <i>AUS:GeoscienceAus:Bouguer:Onshore:Offshore:Gravity 2009</i>                      Australian gravity anomaly, corrected for the height at which it is measured and the attraction of terrain. The height correction alone gives a free-air gravity anomaly.</p> <p><b>Australian Margin Geomorphology 2005</b>  <i>AUS:GeoscienceAus:Australian Margin:Geomorphology 2005</i>                      A dataset which covers Australia and surrounding bodies of water for analysis of the history and nature of the Earth's surface. Geomorphology deals with the landforms produced by erosion, weathering, deposition, transport and tectonic processes.</p> <p><b>Canada Horizontal Gravity</b>  <i>CAN:Geol:Horizontal Gravity</i>                      Grid of the horizontal gradient magnitude of Bouguer gravity anomalies on land and free-air gravity anomalies offshore with display resolution of 10km, covering all of Canada. Compiled from the holdings of the Canadian Geodetic Information System maintained by Geomatics Canada.</p> <p><b>Canada Magnetic Field Grid</b>  <i>CAN:Geol:Magnetic Field Grid</i>                      Magnetic anomalies derived from the holdings of the Canadian Aeromagnetic Data Base maintained by the Geological Survey of Canada (GSC), with display resolution of 8km, covering most of Canada.</p>	
<b>REFERENCE</b>	<p><b>DigitalGlobe Streetmap</b>  <i>Global:Reference:DigitalGlobe StreetMap</i>                      Seamless basemap that delivers an accurate street map that is based on contributions from the OpenStreetMap Community. With global-coverage, this curated and enhanced basemap from Mapbox provides the ultimate local knowledge about the world. Available as a transparent layer, as well.</p> <p><b>Spatial on Demand Global Reference Basemap</b>  <i>Global:Reference:Boundaries and Streets</i>                      General map of boundaries, roads, and cultural reference basemap, covering the globe.</p> <p><b>ESRI World Street Map</b>  <i>Global:Reference:ESRI World Street Map</i>                      This comprehensive street map includes highways, major roads, one-way arrow indicators, railways, water features, cities, parks, landmarks, building footprints and administrative boundaries overlaid on shaded relief for added context.</p> <p><b>OpenStreetMap Basemap</b>  <i>Global:Reference:OpenStreetMap</i>                      Spatial on Demand Foundation Dataset. Global vector basemap depicting transportation, culture, physical, commercial, and natural elements as found on the surface of the Earth.</p> <p><b>Bing Maps Street Basemap</b>  <i>Global:Reference:Bing Maps Vintage</i>                      Consumer-grade street, reference, and cultural basemap with global coverage and updates from BingMaps.com.</p> <p><b>Canada Land Grid</b>  <i>CAN:Reference:NTS Land Grid</i>                      250k and 50k scale National Topographic System land grid, covering Canada.</p>	



## SPATIAL ON DEMAND 5.0 - GLOBAL

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	Foundation data	Premium data
<b>WEATHER</b>	<p><b>Recent Satellite Emulated Lightning Strike Density Imagery</b>  <i>Global:Reference:Global Lightning Strike Density</i>            15-minute Satellite Emulated Lightning Strike Density imagery for the last several hours.</p> <p><b>Near-Real-Time Surface In-Situ Observations</b>  <i>Global:Reference:Surface In-Situ Observations</i>            Map displaying the latest surface weather and marine weather observations from land stations and overwater observing platforms for USA and other countries. This includes but not limited to observations from airports (ASOS, AWOS), coastal stations (C-MAN, NWLON, PORTS, NERRS), oil rigs, state mesonets, fixed buoys, drifting buoys, voluntary observing ships, regional ocean observing systems and other networks (e.g. RAWS, Climate Reference Network, USGS weather stations). The observations are displayed using the weather map station model which is used by operational meteorological centers and offices around the world.</p> <p><b>Oceanographic Forecast Model - Global Ocean</b>  <i>Global:Reference:Oceanographic Forecast Model</i>            Maps displaying the latest gridded surface oceanographic forecast model guidance for the global ocean from the NOAA-NWS Global Real-Time Ocean Forecast System (GRTOFS). The variables include water currents, salinity, and water temperature out to 96 hours.</p>	