

Mapping and Geo-Spatial Intelligence [GEOINT]

General Mapping Tools

- [Google Maps](#)
A web mapping platform and consumer application offered by Google. It offers satellite imagery, aerial photography, street maps, 360° interactive panoramic views of streets, real-time traffic conditions, and route planning for traveling by foot, car, air and public transportation.
- [Bing Maps](#)
A web mapping service provided as a part of Microsoft's Bing suite of search engines and powered by the Bing Maps for Enterprise framework.
- [OpenStreetMap](#)
A collaborative project to create a free editable geographic database of the world. The geodata underlying the maps is considered the primary output of the project.
- [Soar Earth](#)
Allows you to explore and download satellite, aerial and drone imagery of the Earth.
- [Wayback World Imagery](#)
A digital archive of the world imagery base map, enabling users to access different versions of world imagery captured over the years.
- [LocalFocus GIS Toolkit](#)
A great collection of mapping tools for investigative researchers and journalists.
- [F4 Map](#)
This is a 3D interactive map of the world. Pretty neat.
- [Image Hunter](#)
The only search engine that includes over 115 million images and 54 satellite, aerial and DEM datasets from all around the world.
- [HereWeGo Maps](#)
A free mapping tool similar to Google Maps. They also offer a mobile application that allows you to download maps of areas for offline use. Very handy.
- [MapQuest](#)
A free online web mapping service. Allows you to find driving directions, maps, live traffic updates and road conditions, nearby businesses, restaurants and hotels.
- [Maxar Archive Search](#)
Maxar offers the most comprehensive suite of commercial satellite imagery. Highlight an area of interest, view and download historical satellite imagery. Requires a paid subscription for best results.
- [Sentinel Hub EO Browser](#)
The EO Browser aims to contribute to achieving a global, continuous and easily accessible source of satellite imagery data. Very useful tool.
- [Terria Australia](#)
A great tool for Australian-oriented geospatial investigations. Includes some incredibly high-res imagery.
- [NOAA Digital Coast](#)
Provides the data, tools, and training that communities use to manage their coastal resources. Here users find topics of interest from climate adaptation to ocean planning, plus quick access to the Digital Coast data, tools, and training most relevant to a particular topic.

- [Wikimapia](#)
A geographic online encyclopedia project. The project implements an interactive web map that utilizes popular mapping services with a geographically-referenced wiki system, with the aim to mark and describe all geographical objects in the world.
- [City-Data](#)
Collecting and analyzing data from a variety of government and private sources, they are able to create detailed, informative profiles for every city in the United States. From crime rates to weather patterns.
- [360cities](#)
Interactive map that lets you explore panoramic images taken in specific locations.
- [EOS Land Viewer](#)
Land Viewer is a satellite observation imagery tool that allows for on-the-fly searching, processing and getting valuable insights from satellites data to tackle real business issues. Lets you mark and download satellite imagery. Requires a paid subscription for best results.
- [Global Wetlands Map](#)
Interactive map of open waters, mangroves, swamps, fens, riverines, flood swamps, marshes, wet meadows and floodplains. Does not include every country.
- [FreeMapTools](#)
An online resource that enables visitors to easily and quickly use maps in order to measure, search and overlay mark-up elements on maps for a wide range of useful applications.
- [ArcGIS Living Atlas of the World](#)
ArcGIS Living Atlas of the World is the foremost collection of geographic information from around the globe. It includes maps, apps, and data layers to support your work.
- [Overpass Turbo](#)
A web based data mining tool for OpenStreetMap. It runs any kind of Overpass API query and shows the results on an interactive map. Using it can get technical quite quickly, beginners may find the "wizard" a good place to start.
- [MapChannels](#)
Lets users easily embed maps into websites and blogs. A number of tools are available to create maps from KML, GeoRSS or spreadsheet map data. A range of features and options let you customize the map appearance to meet a range of mapping needs.
- [ISRO Geoportal](#)
The gateway to Indian Earth observation. Providing visualization services and Earth observation data to users in public domain.
- [GPS Coordinates](#)
A simple tool that allows you to get GPS coordinates from an address or landmark.
- [SunCalc](#)
A simple tool that determines sun rises and sunsets by location.
- [WhoDidIt](#)
Click on an area on the OpenStreetMap to get a list of usernames who have made changes and edits. Includes dates when the edits were made.

Street View Maps

- [KartaView](#)
Is a project to collect crowdsourced street-level photographs for improving OpenStreetMap.
- [Mapillary](#)
A crowd-sourced street-level imagery platform that scales and automates mapping using collaboration, cameras, and computer vision.
- [Instant Street View](#)
Uses the Google Places Library Autocomplete service to quickly get the location you're

looking for. It uses the street view service to display the street view panoramas and allows for easy bookmarking or sharing. It is fast and features clear images.

- [RouteView](#)

See your route via Google Street view. Requires a Google Maps API key.

Political Maps

- [IR Map](#)

IR Map provides a clear and comprehensive picture of international relations between countries.

- [24 Time Zones](#)

This interactive map represent time zones around the world and cities observing them. Just point at the city on the map or search it in the search field to see the detailed information.

- [Native Land](#)

A global map of first nations land and reservations.

- [CIVICUS Monitor](#)

A research tool and map that provides close to real-time data on the state of civil society and civic freedoms in 196 different countries.

- [HateMap](#)

Provides information about various hate groups across the USA.

- [World Map of Encryption](#)

An interactive world map that shows the the legal status of encryption by country. In some countries, the use of encryption-related technologies is relatively unconstrained; in others, companies and users face significant restrictions.

- [COVID-19 Travel Regulations Map](#)

An interactive map that shows you the current travel restrictions and entry requirements in regard to the COVID-19 pandemic.

- [Travel Restrictions Map](#)

Another interactive map that shows you the current travel restrictions in-place due to the COVID-19 pandemic.

- [World Population Density Map](#)

An interactive map that displays the population densities from all over the world.

Topographic and Geologic Maps

- [USGA TopoView](#)

Enter a location in the search bar and see all topographic maps for that location. USA based.

- [Atlas of Canada Toporama](#)

A large collection of topographic maps of Canada provided by the Canadian government.

- [NGMDB Geologic Maps](#)

Map for exploring some geologic maps and articles from the National Geologic Map Database (NGMDB).

Weather Maps

General Weather Maps

- [Zoom Earth](#)

View live satellite images, rain radar, and animated wind speed maps. Track the latest hurricanes, weather and wildfires in real-time.

- [OpenWeatherMap](#)

An online service that provides global weather data via API, including current weather data, forecasts, nowcasts and historical weather data for any geographical location on Earth.

- [NullSchool Earth](#)
See current wind, weather, ocean, and pollution conditions, as forecast by supercomputers on an interactive animated map. Updated every three hours.
- [Windy](#)
View current worldwide wind and weather forecasts.
- [EIA Maps](#)
A collection of interactive maps for energy infrastructure, floods, real-time storm tracking and a wide variety of other data offered by the US Energy Information Administration.
- [WunderGround](#)
Find historical weather information by searching for a city, postal code, or airport code. Include a date that you would like to see weather history for.
- [Ventusky](#)
Live wind, rain and temperature maps, detailed forecast for your place, data from the best weather forecast models such as GFS, ICON, GEM.
- [LightningMap](#)
See lightning strikes in real time across the planet. Free access to maps of former thunderstorms.
- [The Weather Network Radar](#)
Weather maps provide past, current, and future radar and satellite images for local cities and regions.
- [US National Weather Service Forecast Maps](#)
A collection of weather maps and data for the US. Provided by the US National Weather Service.
- [MeteoBlue](#)
View current weather reports for basically everywhere.
- [RainAlarm](#)
A map that shows where it is currently raining.
- [World Air Quality Index](#)
Shows global air quality information in real-time.

Natural Disaster Maps

- [FireSmoke](#)
Contains information about wildland fire weather and smoke. From here you can access smoke forecasts, fire weather forecasts, fire information and track the movement of smoke.
- [NASA Fire Map](#)
A map of current fire hotspots from around the world provided by NASA.
- [NOAA NCEI Global Hazards Map](#)
View natural hazards from around the world.
- [TornadoHQ](#)
Displays live information and warnings about tornados in the U.S. on a map. They also provide a historical archive of tornado warnings.
- [Live Earthquakes Map](#)
A tool that lists current information about earthquakes happening around the world in near real-time.
- [Tertremo Live Earthquake Map](#)
An interactive map that shows you earthquakes and information about those earthquakes happening across the globe in near real-time.
- [GDACS](#)
The Global Disaster Alerting Coordination System (GDACS) provides real-time access to web-based disaster information systems and related coordination tools.

- [Surging Seas Risk Zone Map](#)
Tracks the risk zones due to the rise in sea levels as a result of global climate change.
- [Cyclocane](#)
An interactive map that shows information about hurricanes.
- [VolcanoDiscovery](#)
Provides a map and information about current volcanic activity all over the globe. Major and minor eruptions, activity reports and warnings.
- [Volcanoes And Earthquakes](#)
A live interactive map that displays information about active volcanic eruptions and earthquakes currently taking place around the world.
- [Smithsonian Global Volcanism Program](#)
Another map and information source for current and historic global volcanic activity.
- [USGS Hawaii Lava Flows](#)
Provides information and tracking of lava flows and high-risk areas on the Hawaiian Islands. Click [here](#) for the latest lava flow hazard map. Archived copies of the .pdf document are available [here \(Wayback\)](#) and [here \(archive.today\)](#).

Ocean Maps

General Ocean Maps

- [NCEC Bathymetric Maps](#)
NCEI is the official distribution point for NOS bathymetric maps, bathymetric/fishing maps, regional maps, geophysical maps, and preliminary maps.
- [NOAA Historical Charts](#)
An interactive map that allows you to search historical ocean and fishing maps.
- [USA Fisher Map](#)
An interactive map that displays depths and other information for a selected body of water. They also offer nautical maps.
- [GlobalFishingWatch](#)
Interactive map that allows you to view the current fishing efforts at a specific location.
- [Submarine Cable Map](#)
A comprehensive and regularly updated interactive map of the world's major submarine communication cable systems and landing stations.
- [OCEARCH Shark Tracker](#)
A pretty interesting mapping tool that lets you track sharks, turtles, whales and other ocean animals. Some of the data appears to be a few years old, but still cool.

Shipwreck Maps

- [ShipwreckWorld](#)
An interactive map of shipwrecks from around the world.
- [Google Shipwreck Map](#)
A map of shipwrecks featured on Shipwreckology plotted on Google Maps.
- [3D Shipwreck Data](#)
A 3D interactive map of shipwrecks from various time periods.
- [Wrecks and Obstructions](#)
A database and map of shipwrecks and obstructions on the sea floor.

Tree Maps

- [OpenTreeMap](#)
A collaborative platform for crowdsourced tree inventory, ecosystem services calculations

and urban forestry analysis. Basically one giant database of trees.

- [NYC Street Tree Map](#)
The world's most accurate and detailed map of New York's street trees.
- [London Street Trees](#)
A dataset of street trees in London, UK. There are currently 815,916 trees in this dataset.
- [Vancouver Street Trees](#)
A dataset of street trees in Vancouver, BC Canada.
- [Toronto Street Trees](#)
A dataset of street trees in Toronto, ON Canada.

Network Maps

Cell Tower Maps

- [OpenCellID](#)
The world's largest open database of cell towers.
- [SCADACore US Cell Tower Map](#)
Features over 25,000 locations with corresponding tower and radio information. This map is useful in planning and troubleshooting cellular networks.
- [US Cellular Tower Locator](#)
View information on US cell towers. They also provide a cellular coverage map.
- [Canadian Cellular Tower Map](#)
Presents the locations of tower sites for each licensed Canadian wireless provider. Each site is indicated by a color coded icon.

Cellular Coverage Maps

- [CellMapper](#)
A crowd-sourced cellular tower and coverage mapping service for the USA. Maps actual coverage of cellular networks based on real life conditions and the coverage and signal strength of the network in areas that have been mapped.
- [Nperf Cellular Coverage Map](#)
View the coverage area of different cellular operators from different countries.
- [Nperf Global 5G Coverage Map](#)
A map that displays global 5G coverage.
- [CompareCellular](#)
A cellular coverage map for various Canadian cell carriers including Telus, Rogers, Bell, Freedom Mobile, SaskTel and VideoTron.
- [UK Cellular Coverage Maps](#)
Maps for 3G, 4G and 5G cellular data network coverage in the United Kingdom.
- [MastData](#)
Mobile telecom base station resources, tools and coverage maps for the UK.

Satellite Phone Coverage Maps

- [SatPhoneCoverageMaps](#)
Coverage maps for various satellite phone providers such as Iridium, Inmarsat, GlobalStar, Thuraya and more.
- [Canadian Satellite Phone Coverage](#)
Coverage maps for satellite phone providers for Canada.

Industry Mapping

- [MinDat](#)
Maps, information and images regarding mineral mines in various different countries.
- [Global Gas Pipeline Map](#)
Provides a detailed map and other information regarding gas pipelines currently in use all over the world.
- [EnergyWebAtlas](#)
An interactive gas map that provides a comprehensive source of facility and project data. Allows users to access the latest project data including facility status and ownership details, detailed pipeline information, industry gas information and more.

Other Mapping Resources

- [World Map of OSINT Tools](#)
An awesome collection of OSINT tools plotted and sorted on a map. Created by [@cyb_detective](#), be sure to give him a follow!
- [RideWithGPS](#)
Find bicyclists by name and/or location, view maps and other information about their bicycle routes.
- [BikeMap](#)
The world's biggest bike route collection. Find cycling routes by country. Requires registration to upload your own data.
- [RunMap](#)
One of the largest collections of running routes on the web. Allows you to extract GPS data.
- [WanderMap](#)
One of the largest collections of hike routes on the internet. Allows you to extract GPS data.
- [GeoNames](#)
Geographical database covers all countries and contains over 11 million place names that are available for download free of charge.
- [WorldAtlas Countries of the World](#)
Lists information about each country on Earth. Including flags, populations, GDP statistics, capital cities, ISO codes and dialing codes.
- [I Know Where Your Cat Lives](#)
A data visualization experiment that locates a sample of one million public images of cats on a world map by the latitude and longitude coordinates that is embedded in the images EXIF data.
- [ShadowCalculator](#)
Display building shadows on google maps for specified location and time. Calculate the azimuth and altitude of the sun.
- [GigaPan](#)
Provides hardware, software, and services to create and share high-resolution, interactive gigapixel panoramic images.
- [Speed Camera DB](#)
A worldwide interactive map of speed cameras and speed traps.
- [Wheelmap](#)
A global wheelchair accessibility map.
- [World Map of Social Networks](#)
A map that details the most popular social networks per country. Also provides a wealth of statistics.
- [Light Pollution Map](#)
An interactive map that displays light pollution information by area.
- [Power Plug Sockets](#)
A directory that shows you the different types of power plug sockets used in different parts

of the world.

- [World Map of Alphabets](#)

A great resource for identifying where in the world a specific written language or script is from.

- [Bollards of the World](#)

A great list of the different types bollards used around the world. Includes images as well. I converted this into a .pdf for offline use, available [here](#). Archived copy available [here](#) ([Wayback](#)).

- [McBroken](#)

An interactive that tells you which McDonalds locations currently have broken ice cream machines. Probably one of the best uses of OSINT I have ever seen.