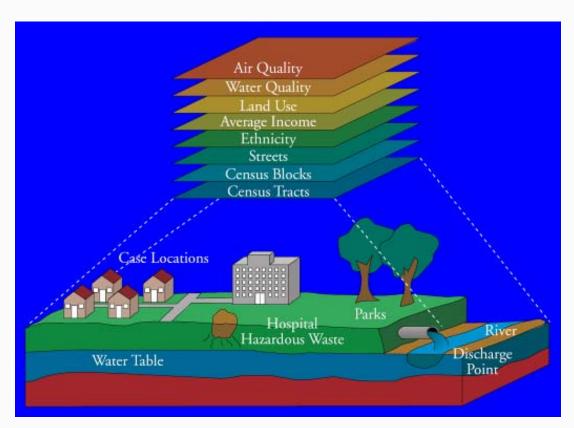


To Map or Not To Map: A Brief Overview of GIS Tools for a Non-Technical Person



Svetlana Smorodinsky

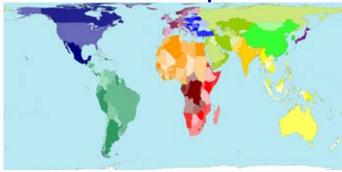
WREN Conference, Ashland, OR May, 2009



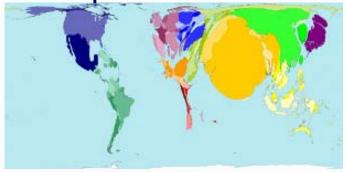


Interesting maps from Worldmapper

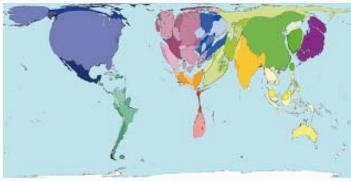
area-based world map



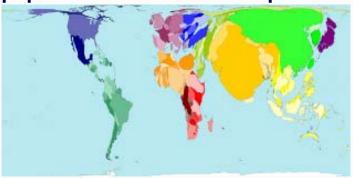
diabetes prevalence 2001



carbon emissions 2000



population-based world map 2002



infant mortality 2002



science papers published per year 2001







Acknowledgements

- CDPH
 - Craig Wolff, Matt Stone, Makinde Falade, Dan Smith, Sumi Hoshiko
- ESRI
- Google
- Everyone who posts free tools, scripts, and offers help to "GIS dummies"

Topics

- Why GIS
- Products
- Website Resources
- Tools





Public Health and GIS

1790's - Seaman mapped a yellow fever outbreak in NYC

1810's - Pascalis mapped another outbreak in the same area

Both argued local waste materials were the causes

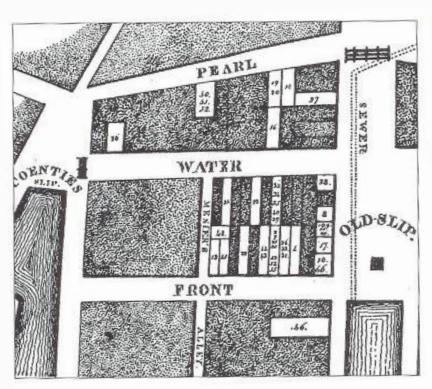


Figure 2.8b Detail in black and white of Pascalis's map of yellow fever cases near Old Slip, New York, 1819. Fatal cases are numbered sequentially by time of death.

Source: Now York Academy of Medicine Library.

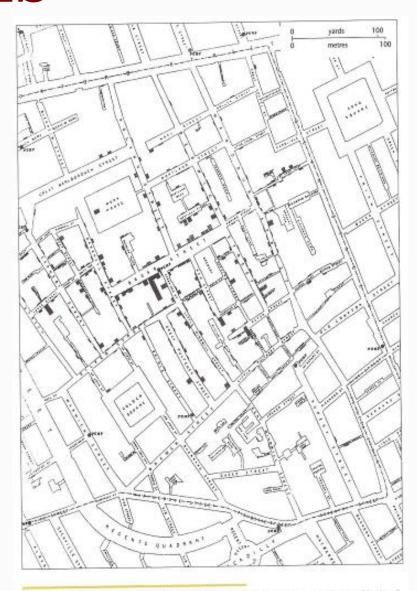


Figure 4.12a Snow's map of the Broad Street outbreak, 1854, from On the Mode of Communication of Cholera, Second Edition.

Source: Reproduced courtesy of College of Physicians of Philiadelphia.

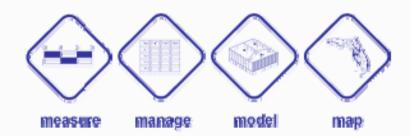
John Snow – Broad Street Pump, 1854





GIS and Public Health

- GIS is a powerful tool for
 - Data management and integration
 - Data analysis, visualization, and reporting
 - Management of resources
 - Documentation
- Collaboration with other disciplines
- Collaboration within public health and health services programs
- Data standards (development and application)









GIS products

- ESRI products
 - ArcGIS
 - ArcView → ArcEditor → ArcInfo
 - number of tools depends on licensing level
 - ArcSDE, ArcGIS Server
 - behind-the-scenes
 - ArcGIS Explorer
 - free GIS viewer
- Other GIS software companies and products
 - MapInfo, Maptitude, SAS GIS, SAS Bridge to ESRI, EpiMap
- Other mapping and visualization products (mostly web-based)
 - Google Maps, Google Earth, Microsoft Live Maps, Microsoft Virtual Earth, NASA WorldWind, Yahoo Maps, etc



GIS web resources

Health

- CDC EpiInfo EpiMap
- CDC NCHS
- CDC GIS
- BRFSS Maps
- NCI GIS
- March of Dimes
- WHO HealthMapper
- Health Map

Environment

- US EPA EnviroMapper
- NLM ToxMap

General

- US Census AmericanFactFinder
- National Atlas
- GeospatialOneStop
- Google.org
- Social Explorer

Training and Useful Information

- Geography.com
- GIS.com
- Color Brewer
- ESRI Virtual Campus



CDC EPIINFO-EPIMAP



- GIS and Public Health, CDC National Center for Health Statistics.
- Improving Public Health Through Geographical Information Systems An Instructional Guide to Major Concepts and Their Implementation, Web Version 1.0, December 1997. By Gerard Rushton at the University of Iowa.
- Public health geographic information systems (GIS) news and information: 1994-1997, by Charles Croner (January 1998). National Center for Health Statistics Cognitive Methods Working Paper Series Number 23. Can be ordered online.
- Visualizing Health Statistics, CDC National Center for Health Statistics and the Pennsylvania State University.

(top)

Geographic Boundaries

Use these resources to locate shapefiles for use with any ESRI-compatible GIS software, including Epi Info™. Principal Repositories



CDC NCHS

Address 🙆 http://www.cdc.gov/nchs/about/otheract/gis/gis_links.htm



Chs National Center for Health Statistics

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FASTSTATS A to Z

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Surveys and Data Collection Systems NHANES

NHCS NHIS NHIS NIS LSOAS NSFG SLAITS

Initiatives -

Aging Disease Classification Healthy People Injury

Research and Development
Research Data Center

Press Room News Releases

Publications and Information Products

Listservs ...

Other Sites

Download:

Adobe Acrobat Reader®

Microsoft PowerPoint Viewer®

National Center for Health Statistics 3311 Toledo Road Hyattsville, MD 20782

Toll Free Data Inquiries 1-800-232-4636

gis and Public Health

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Search NCHS | Contact us

Links to Related Sites

*Indicates interactive mapping site

National Atlases:

- Atlas of United States Mortality
- National Atlas of the United StatesTM*
- Atlas of Cancer Mortality in the United States 1950-94*
- Atlas of Respiratory Disease Mortality, United States
- The Dartmouth Atlas of Health Care in the United States

Federal Mapping Tools:

- <u>Cardiovascular Health Interactive Maps*</u>
- The National Center for Injury Prevention and Control Maps*
- MapStats
- Census Bureau American FactFinder*
- Census Bureau State and County Demographic and Economic Profiles*
- Census Bureau TIGER Map Server*
- NIJ Mapping and Analysis for Public Safety
- EPA EnviroMapper*
- HUD Community Planning Software 2020

National Spatial Data Infrastructure:

United States Geological Survey Formal Metadata

Other Related Web Sites:

- NCHS Research Data Center
- ATSDR Geographic Information Systems in Public Health
- CDC/ATSDR Geographic Analysis Tool for Health and





CDC GIS

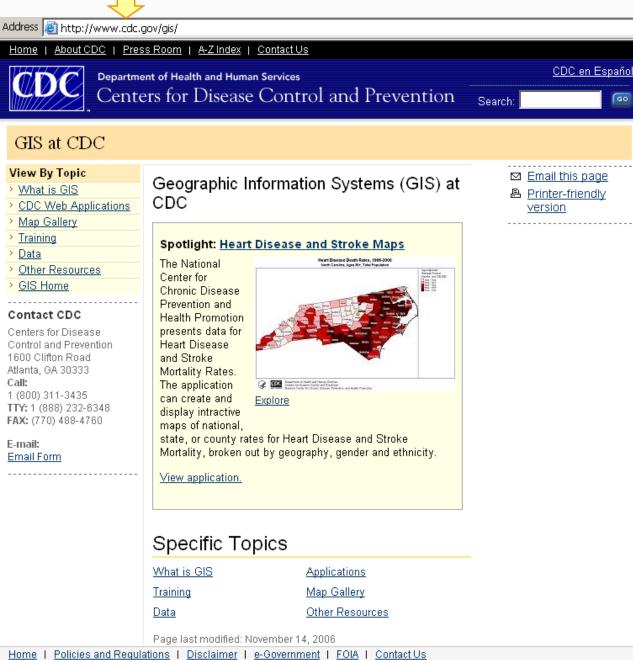


SAFER · HEALTHIER · PEOPLE

cdcinfo@cdc.gov

Centers for Disease Control and Prevention, 1600 Clifton Rd, Atlanta, GA 30333, USA

800-CDC-INFO (800-232-4636) TTY: (888) 232-6348, 24 Hours/Every Day -



USA.gov

Department of

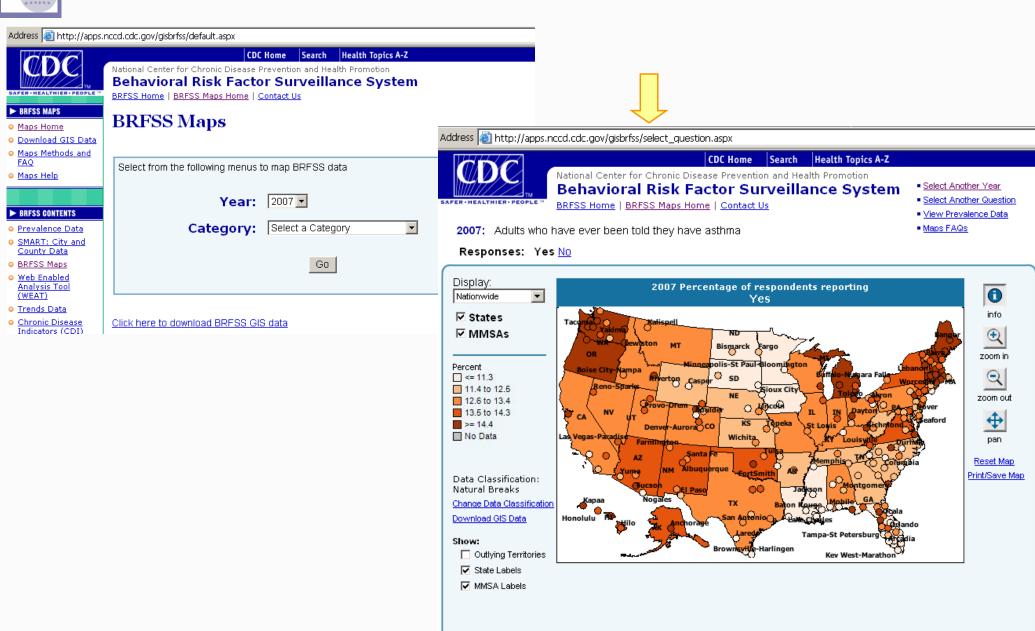
Services

Health and Human

EHIB



CDC BRFSS Maps





NCI GIS





A Web site supported by the NCI for use by the public, cancer researchers, and the GIS Special Interest Group.

About GIS at NCI

- About this Site
- . About the GIS Special Interest Group
- Contact Information

Overview of GIS at NCI

- . Introduction to GIS at NCI
- Geographic-based Research & Applications at NCI
- GIS Database Development
- Spatial Data Analysis
- Geovisualization Tools Development
- · Communication of Georeferenced Statistics

Examples of GIS Applications

- Federal Government
- State Health Departments
- General Use of GIS in Public Health

Data Sources

- . Links to NCI & Other Government Data
- Miscellaneous Data

Key NCI Initiatives

- State Cancer Profiles
- Cancer Mortality Maps & Graphs
- Long Island Geographic Information System
- US Predicted Cancer Incidence, 1999; Spatial Projection Models

Tools & Resources

- Please read our Disclaimer
- General Resources
- Mapping
- Spatial Analysis
- Data Visualization
- Health Disparities
- Tools for ArcMap
- Miscellaneous Tools
- Professional Services
- GIS Organizations
- Regulations (HIPAA, Confidentiality, Accessibility)

Funding

- How to Obtain Funding
- Currently Funded GIS Grants
- National Science Foundation Grants Program

What's New

- · Linked Micromaps Graphing Program Available for Download
- ColorTool for ArcMap Available for Download

Helpful Links

- GIS Dictionary
- Upcoming GIS Events

Publications

- Best Practices
- Papers
- Journals
- Confidentiality Regulations in Research
- Newsletters, Listservs, URLs
- Search PubMed

Training

- Online Courses
- Reference





March of Dimes



Address (a) http://www.marchofdimes.com/peristats/





Welcome to **PeriStats**®

Developed by the March of Dimes Perinatal Data Center, the PeriStats Web site provides free access to US, state, county, and city maternal & infant health data.

Easy Start: Over 60,000 graphs, maps and tables available! Select a region to get a complete list for the US or your state.

Choose a State...



WHAT'S NEW

The Latest

- · Preterm Birth Rate Drops
- <u>States Expand Newborn</u> <u>Screening for Life-</u> Threatening Disorders
- <u>Preterm Births Rise 36</u> Percent Since Early 1980s
- Babies Born Just a Few Weeks Too Soon at Greater Risk of Cerebral Palsy and Other Developmental Delays

Newborn Screening



DATA VIEWERS



Graph specific maternal & infant health indicators for the United States.

the United States.
More graphs available inside!

Choose a State...

Create Graphs

Choose an Indicator... 💌

submit 🗵



Create Maps

Make US and State maps for specific maternal & infant health indicators. More maps available inside!

Choose an Indicator...

submit 🗵



State Summaries

Choose a State...

Get state summaries of maternal & infant health indicators.

Choose a State...

Choose a Summary...

submit 🗵



Quick Facts

Obtain brief facts on maternal & infant health indicators.

Choose a State...

Choose a Topic...

submit 🗵



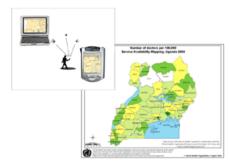
WHO HealthMapper

http://www.who.int/health_mapping/en/



GIS and public health mapping

What is GIS?



Using GIS to map public health data

Geographic information systems (GIS) is a computer-aided database management and mapping technology that organizes and stores large amounts of multi-purpose information. GIS adds the dimmension of geographic analysis to information technology by providing an interface between the data and a map. This makes it easy to present information to key decision-makers quickly, efficiently and effectively.

Geographic information systems and remote sensing from earth-observing satellites are sophisticated and powerful technologies that are finding applications far beyond those originally intended. Both are products of the Cold War developed by departments of defence for military purposes. Together, they allow near real-time

access to data on temperature, soil, elevation, patterns of land use, and phases of vegetation in addition to the precise geographic location of water bodies, population centres, buildings, roads, and other infrastructure. Their use for purposes ranging from the search for natural resources to transportation engineering, urban design, and agricultural planning was quickly recognized and exploited.

GIS for public health

Geographic information systems and remote sensing have capabilities that are ideally suited for use in infectious disease surveillance and control, particularly for the many vector-borne neglected diseases that are often found in poor populations in remote rural areas. They are also highly relevant to meet the demands of outbreak investigation and response, where prompt location of cases, rapid

The Global Health Atlas

WHO has launched the first global online atlas of infectious diseases, a new tool for infectious disease surveillance and control which builds on the features of the HealthMapper. Over 300 indicators for more than 20 infectious diseases of major public health concern are included in the database.

In a single electronic platform, the Atlas is bringing together for analysis and comparison standardized data and statistics for individual diseases and indicators at country, regional, and global levels. The analysis and interpretation of data are further supported through information on demography, socioeconomic conditions, and environmental factors. In so doing, the Atlas specifically acknowledges the broad range of determinants that influence patterns of infectious disease transmission.

Maps are used to display data on the prevalence of individual diseases, the location of at-risk populations and vector habitats, and patterns of antimicrobial drug resistance. Such maps offer easy visualization of conditions ranging from the number of villages infected with guinea worm disease, through the monitoring of

:: View full size map [jpg 245kb]

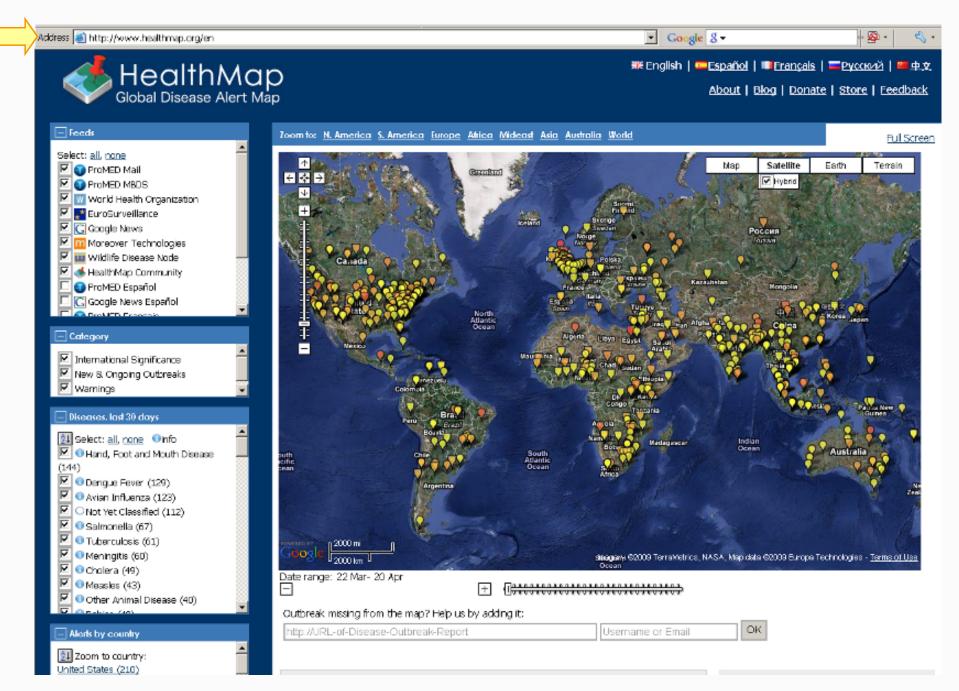


Latest available HIV prevalence rate, by sentinel sites, pregnant women, 2003





HealthMap







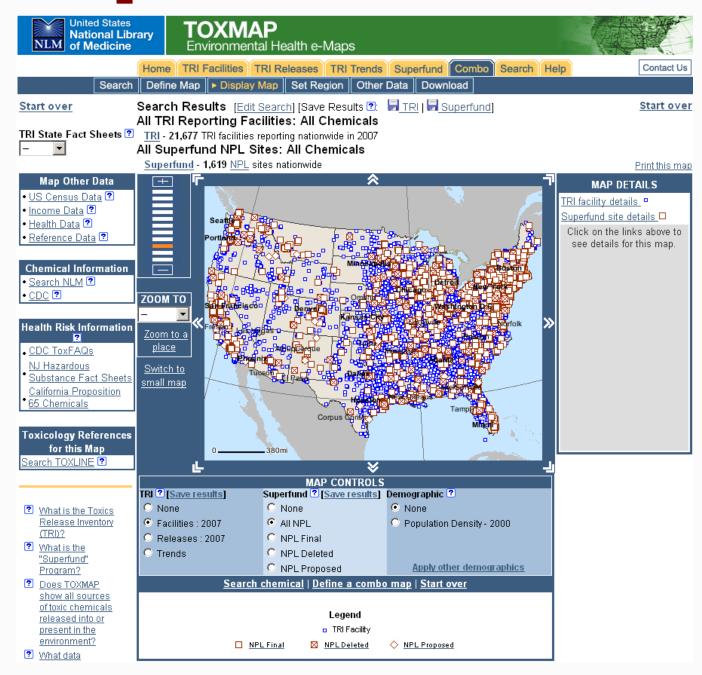
EPA EnviroMapper





NLM ToxMap

http://toxmap.nlm.nih.gov/toxmap/main/index.jsp



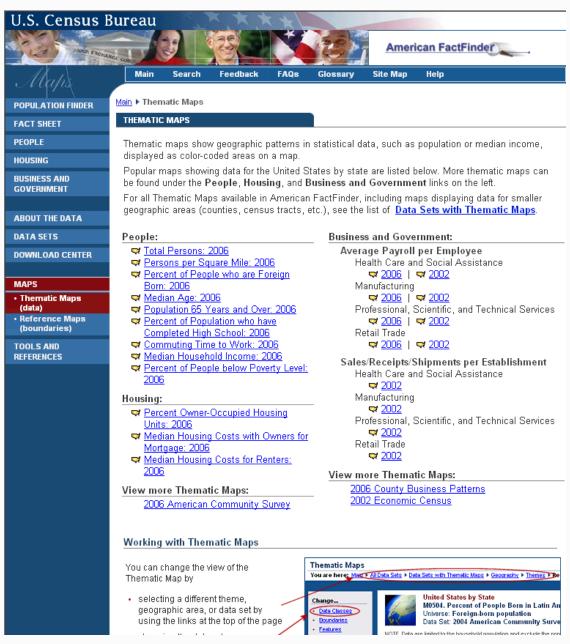




US Census American FactFinder

http://www.factfinder.census.gov









National Atlas



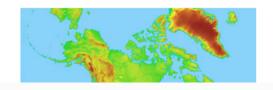
Home

- What's New -

Online North American Environmental Atlas Launched

An atlas that gathers and presents information designed to help us understand continental-scale environmental issues has been released by the Commission for Environmental Cooperation (CEC), The North American Environmental Atlas is intended for use by both environmental scientists and the citizens of the United States, Canada, and Mexico. Its maps and services are designed to help the public visualize environmental topics at a continental scale. An example of this is the pollutant mapping tool in Google Earth that allows you to explore information about more than 30,000 facilities across our Nation, Mexico, and Canada. For professional users of geographic information, this Atlas offers basic cartographic and environmental data for the continent at no cost.

The CEC is an organization created by Canada, Mexico and the United States under the North American Agreement on Environmental Cooperation. The Commission was established to address regional environmental concerns, to help prevent potential trade and environmental conflicts, and to promote the effective enforcement of environmental law.

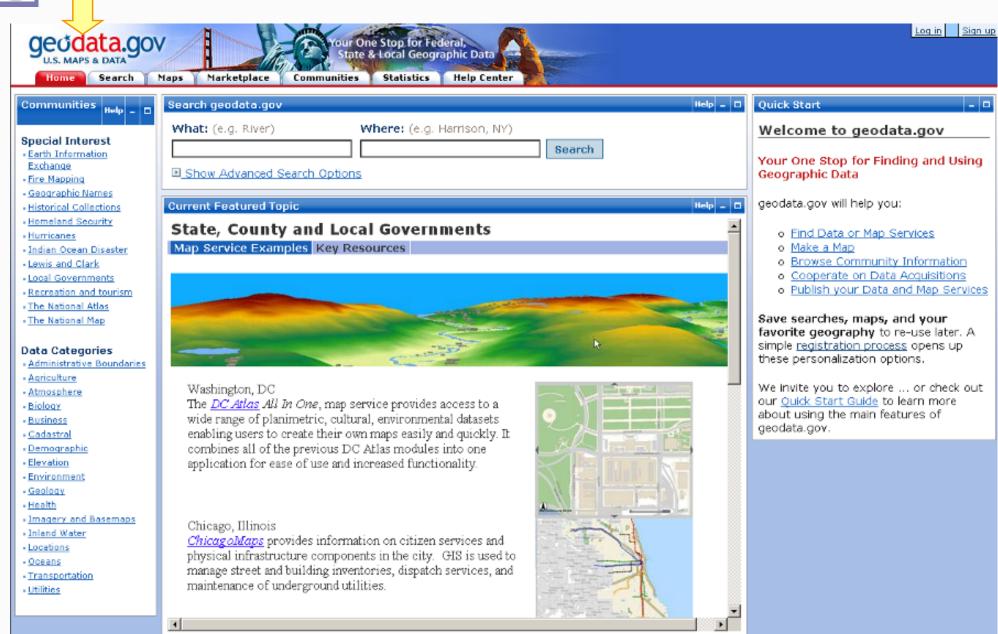


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Investigate the layers that you can mix and match when making your own map.	Map Layers
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Learn about topics that interest you.	Articles
Download documented, accurate, reliable, and integrated data to use in your GIS application.	Mapping Professionals

able to map and include more information about the United States than we've offered in the past. For those interested in our nation's streams, lakes, and ponds, we are pleased to announce that our new surface waters map layer is a generalization of the 1:100,000-scale National Hydrography Dataset (NHD). We intend to offer a fully networked version of this map layer that includes flow direction and all other advantages of the NHD. A third benefit of mapping at 1:1.000.000-scale is that the National Atlas of the United States® can fully support the creation of the Global Map. This is an effort by national mapping organizations around the world to produce standard maps that cover the globe. Anathar national advantage of manning at



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RechargeIT Energy Information

Global Health

Flu Trends
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Searching for solutions

Google.org aspires to use the power of information and technology to address the global challenges of our age.

Official Google.org Blog

Brilliant Takes on Urgent Threats

■ Posted 2009-04-14

The Final Inch on YouTube

■ Posted 2009-04-07

A Green Light for Green Energy

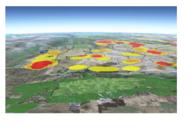
Posted 2009-04-01

One video that should go viral

■ Posted 2009-03-27

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Discover the unique connections between you and the world around you — What can I see from this mountain peak? How do the weather and sol effect what foods people eat here? Where's the nearest store?

Learn

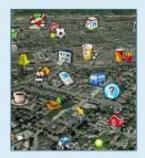
Learn how geography helps identify, visualize, analyze and solve the challenges we face on our planet today.

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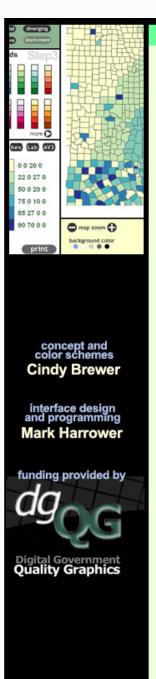






ColorBrewer

http://www.colorbrewer.org



go to ColorBrewer | Update Info



Welcome to ColorBrewer!

<u>ColorBrewer</u> is an online tool designed to help people select good color schemes for maps and other graphics. It is free to use, although we'd appreciate it if you could cite us if you decide to use one of our color schemes.

Click any ColorBrewer link on this intro page to use it.

How to Use It

ColorBrewer is easy to use. Just follow the "Step1", "Step2" etc. boxes and you'll be creating attractive color schemes appropriate to the nature of your data in seconds.

When they appear, don't forget to click on the Step 3 mini legends (they load the different color schemes).

NOTE: ColorBrewer is a color diagnostic tool - not an online GIS. You cannot load your own data into ColorBrewer. Instead, use our maps to "test drive" a given color scheme to see if it suits your mapping needs.

What Software do you Need?

You'll need the free Flash plug-in for you browser (Flash 5 or later). If you get a big empty box when you try to load ColorBrewer, go here and download the plug-in.

Need more detailed instructions? Go here

Take me to ColorBrewer

PENNSTATE







ESRI virtual campus

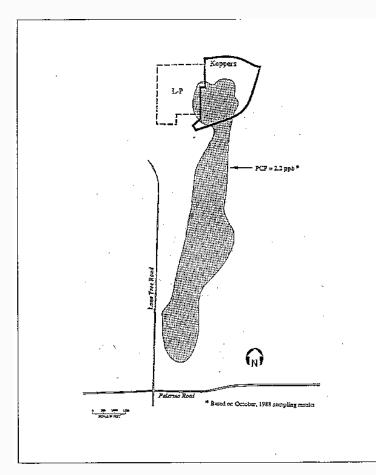


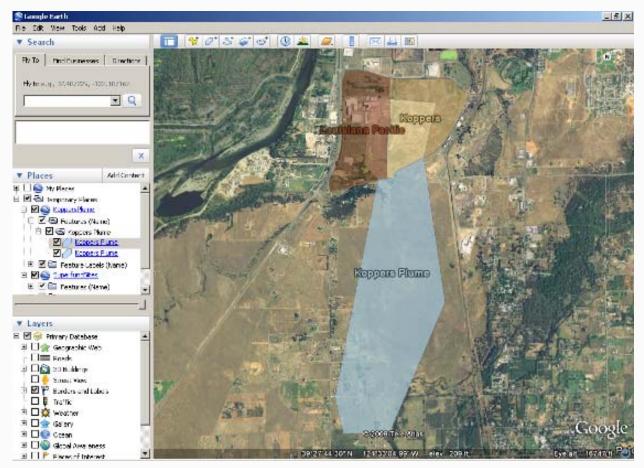
EHIB



Let's get practical

- You're not a GIS tech
- You have no (\$\$\$) (time) (time and \$\$\$) to hire one
- You (have to) (need to) (want to) make a map
- How do you go from a (paper map) (image) (idea) to an electronic and (meaningful) (useful) (share-able) map







Tools

What Tools?

- Google
 - Maps and Earth
- Microsoft
 - Live and Virtual Earth
- ESRI
 - ArcGIS Explorer
- Geocoding sites
 - iTouchMap and BatchGeocode
- Others (Yahoo, etc not covered)

What do we do with them?

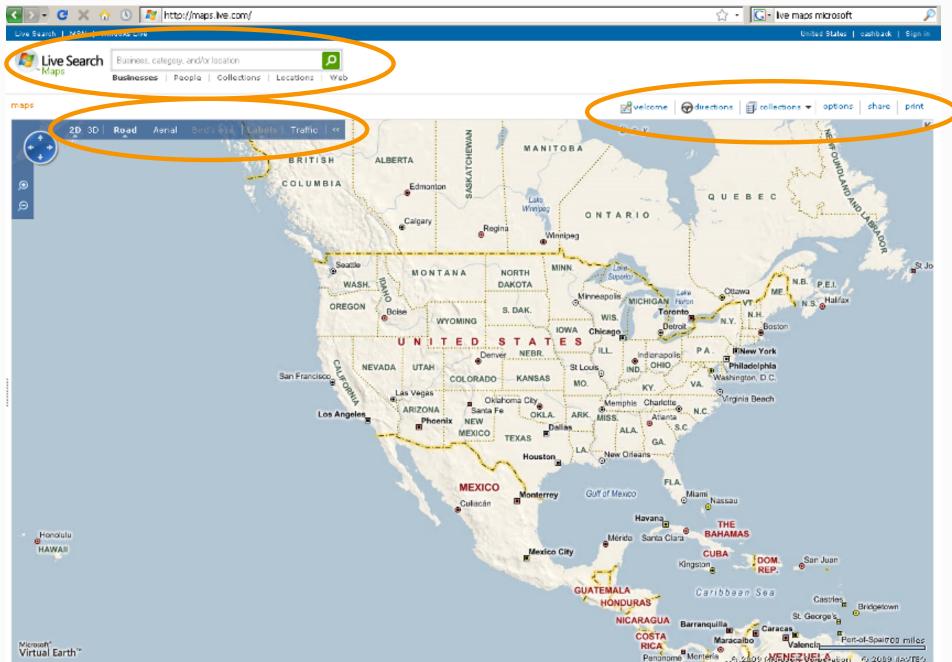
- "Flat" maps
- 3D (i.e. globes)
- Geocode
- Sketch (lines and polygons)
- Save, export, share

Why?

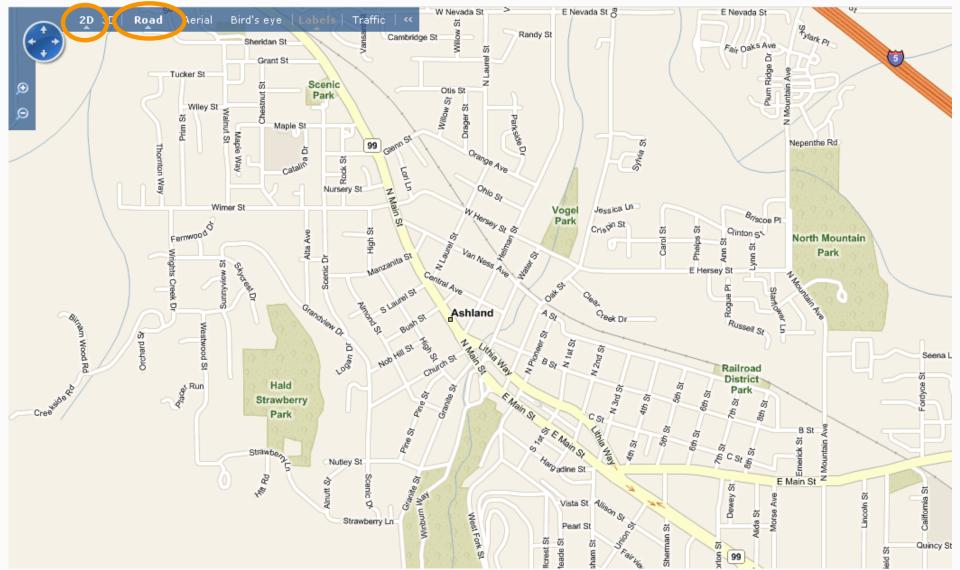
- Emergency preparedness (plumes, laboratories, incidents)
- Inspection sites
- Health facilities
- You name it!



Microsoft maps.live.com







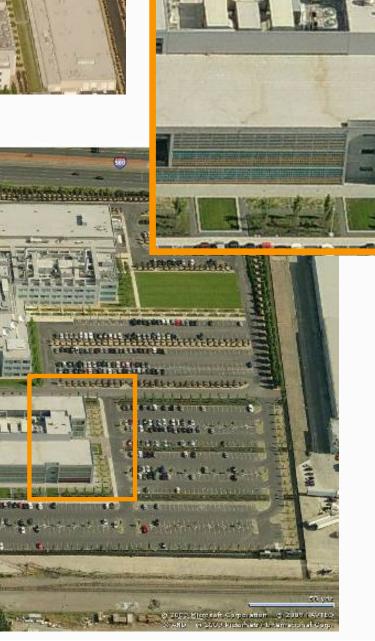




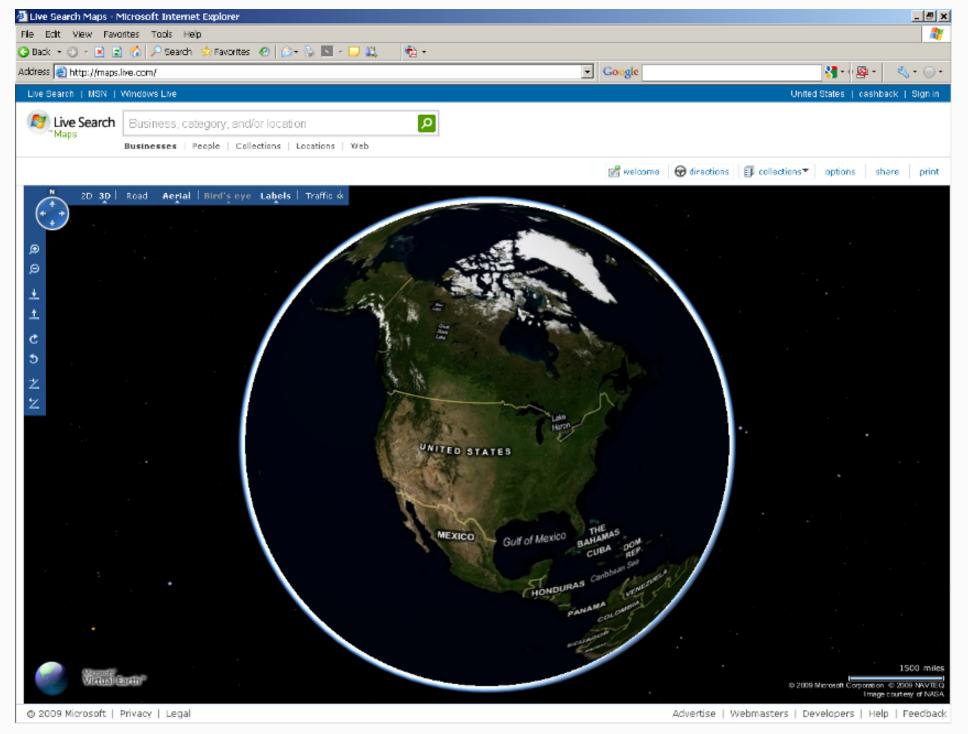
Virtual Earth



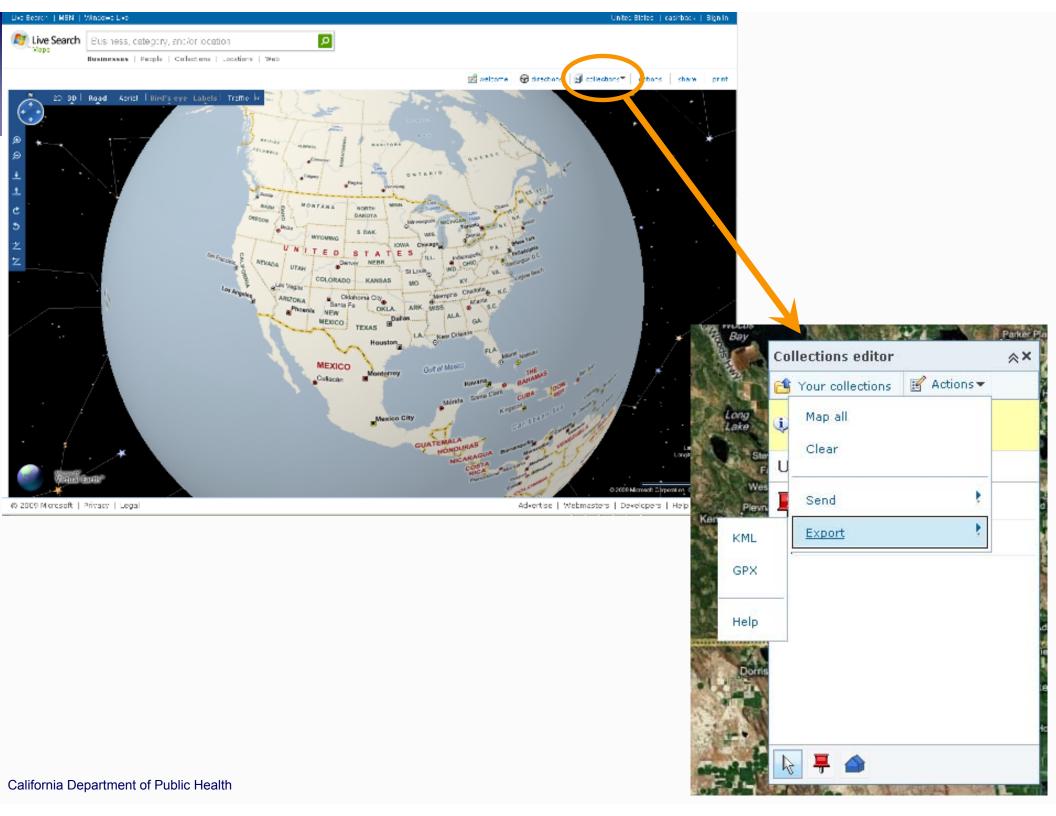
Bird's eye | Dibels | Traffic | ((





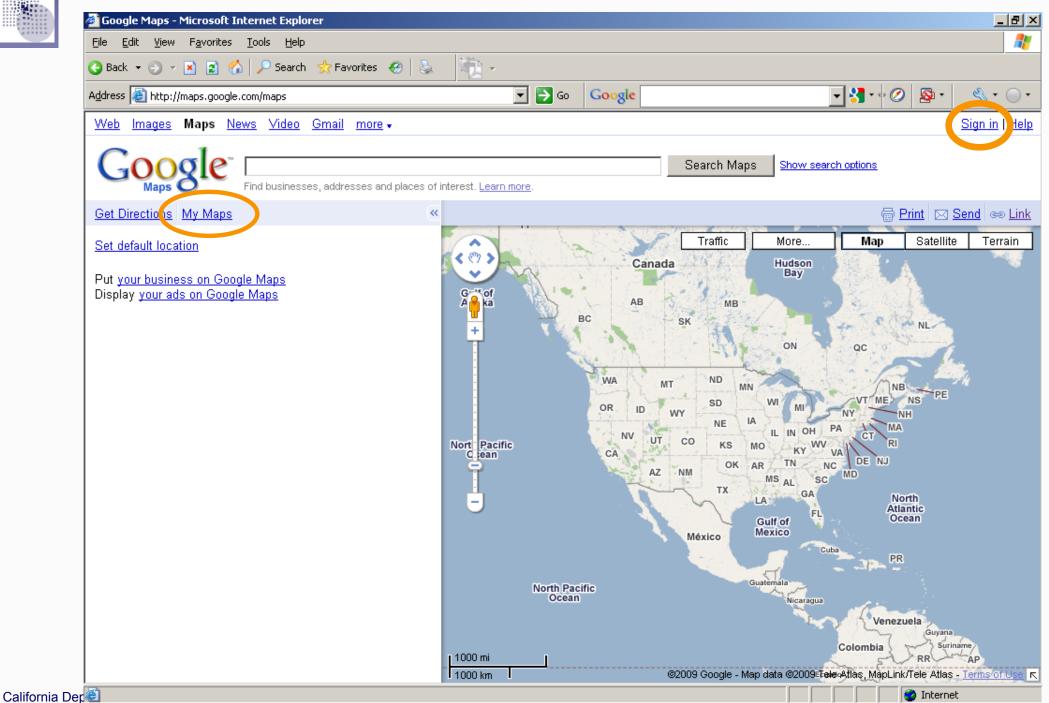


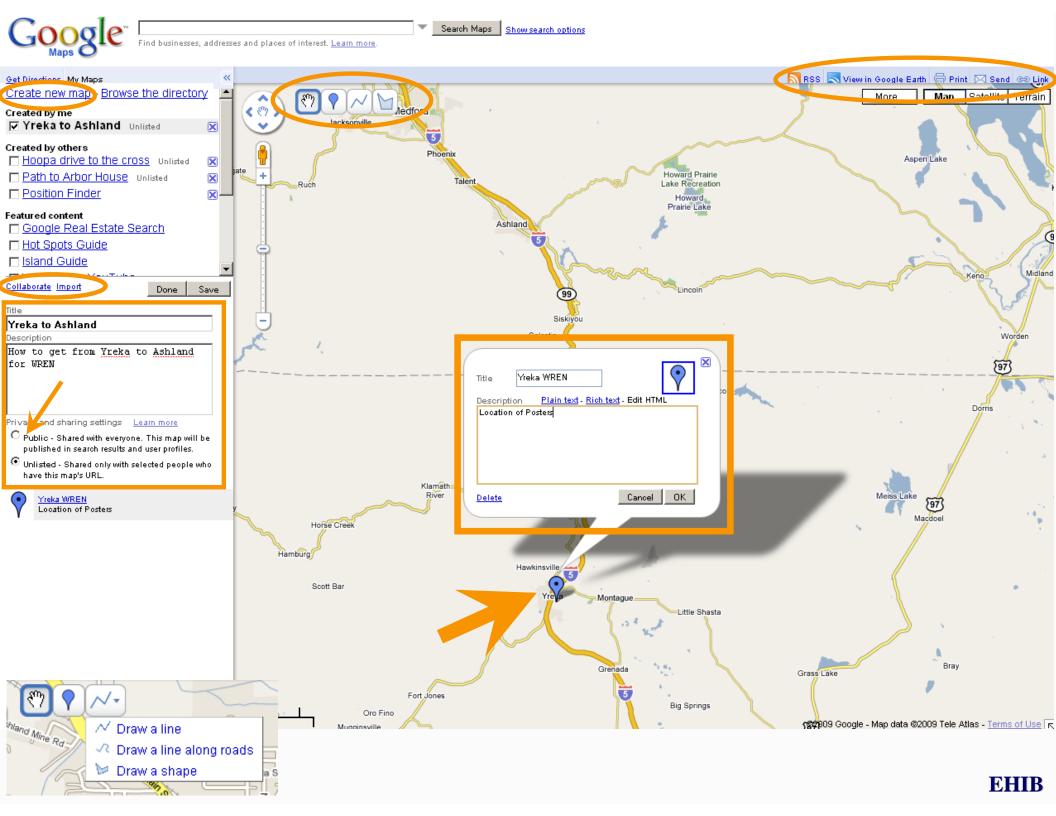






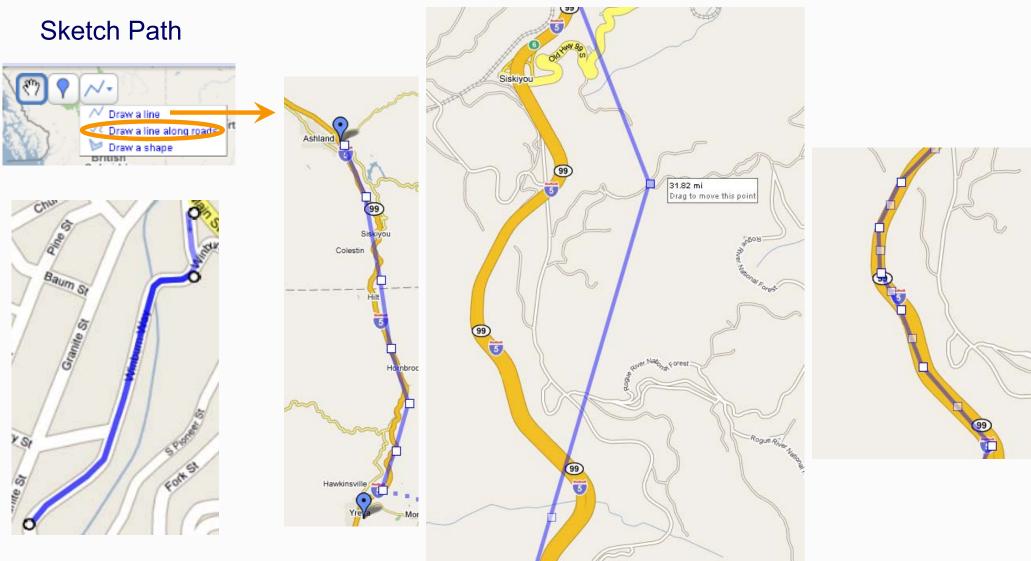
Google Maps maps.google.com





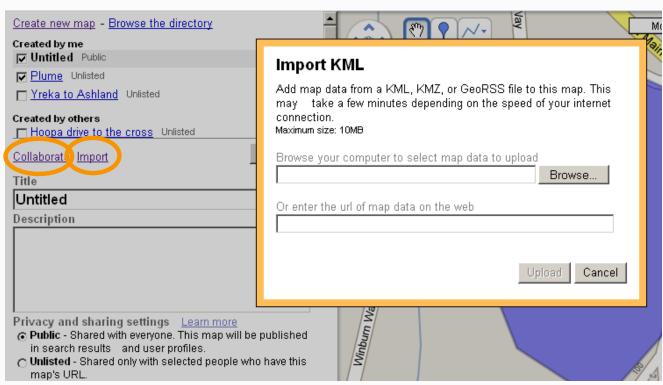


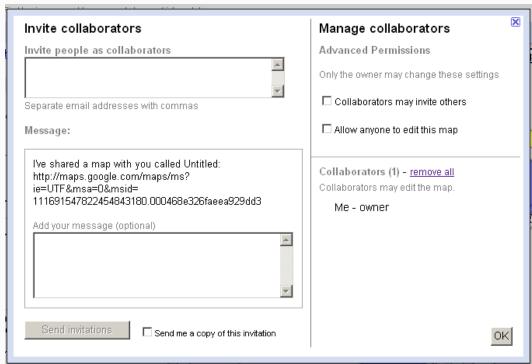
Correct path







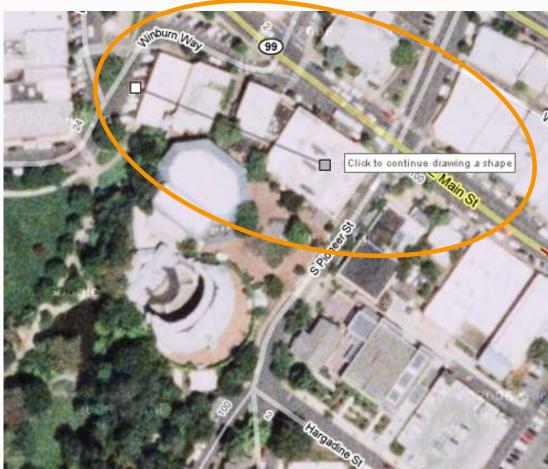






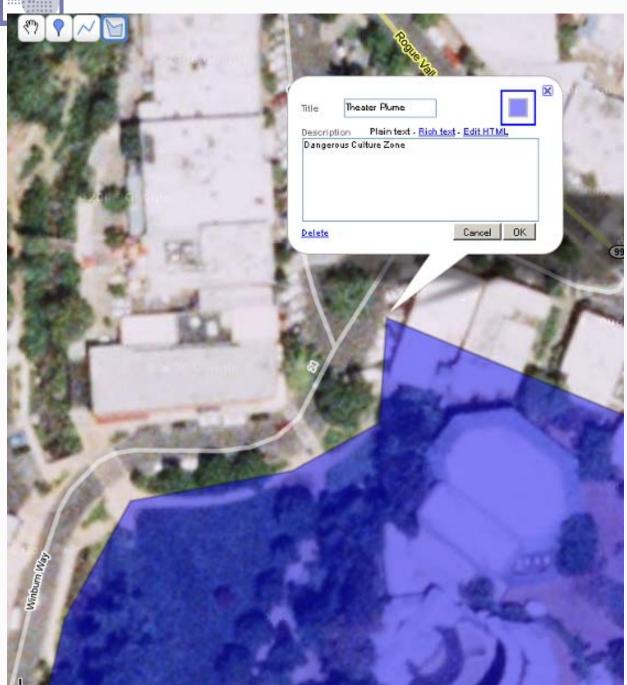








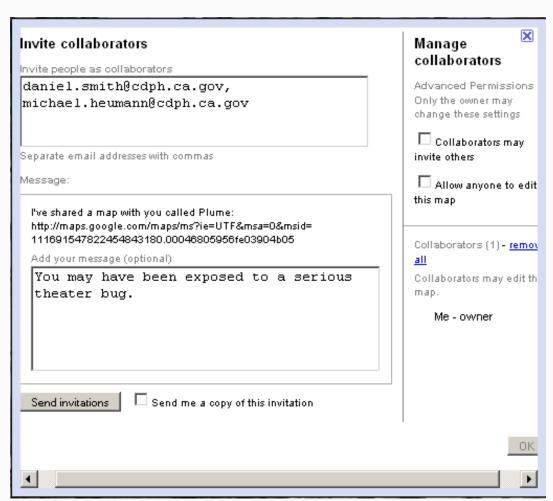
















Search Maps

Google Find businesses, addresses

Find businesses, addresses and places of interest. Learn more.

Get Directions My Maps

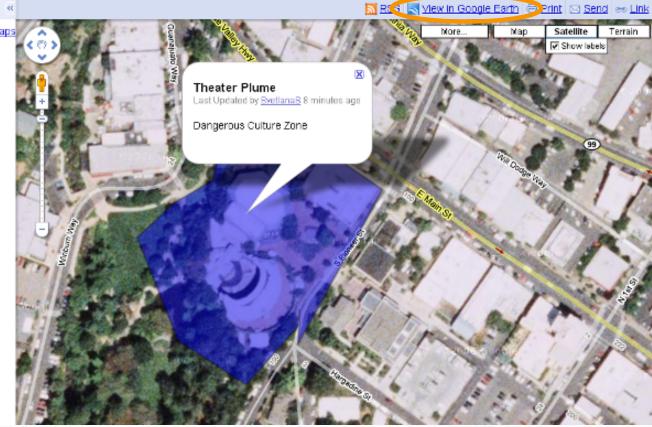
Save to My Maps

Plume

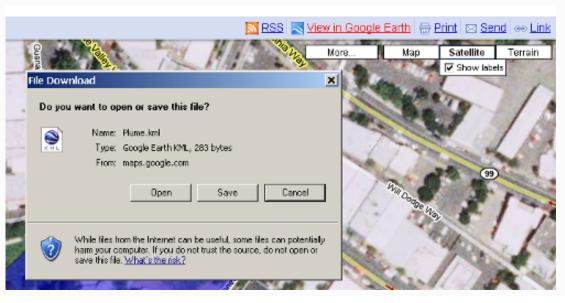
1 views - Unlisted
Created on Apr 2D - Updated B minutes ago
By SvetlanaS
Rate this map - Write a comment

Theater Plume
Dangerous Culture Zone

Report a problem

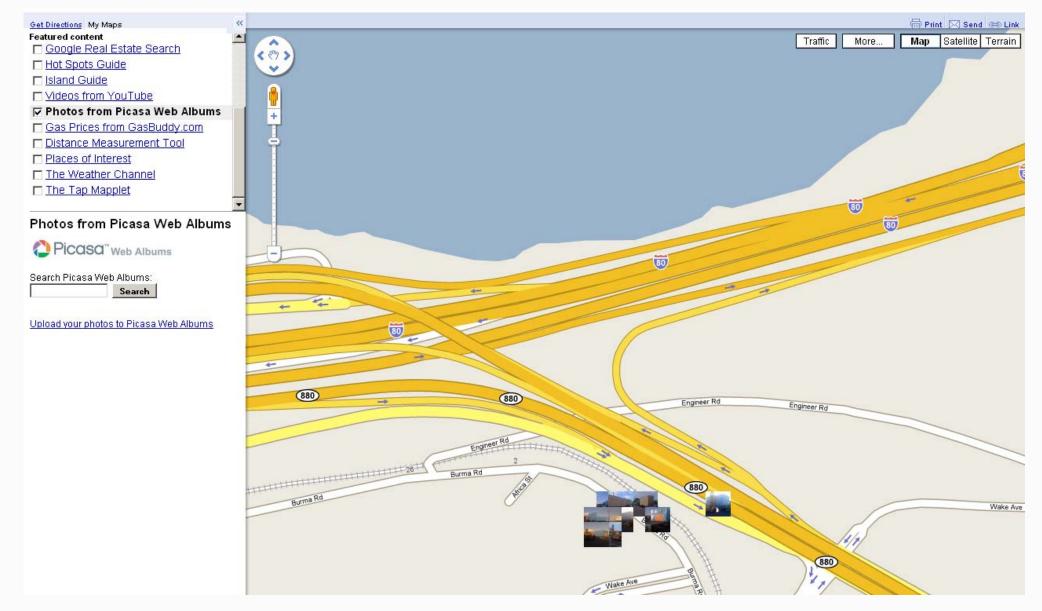


Show search options



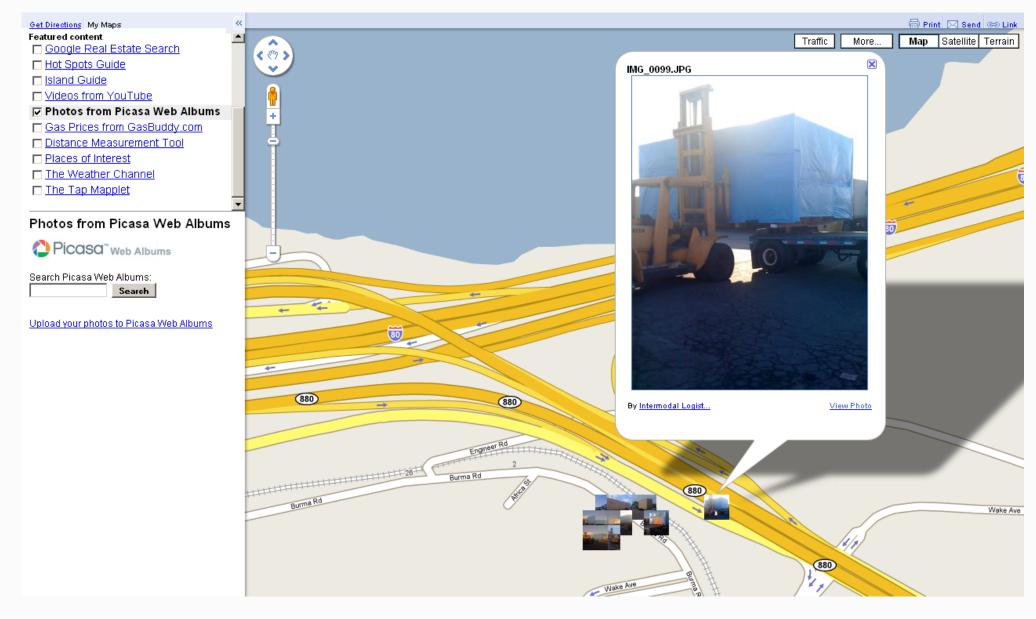


Use Picasa to share photos





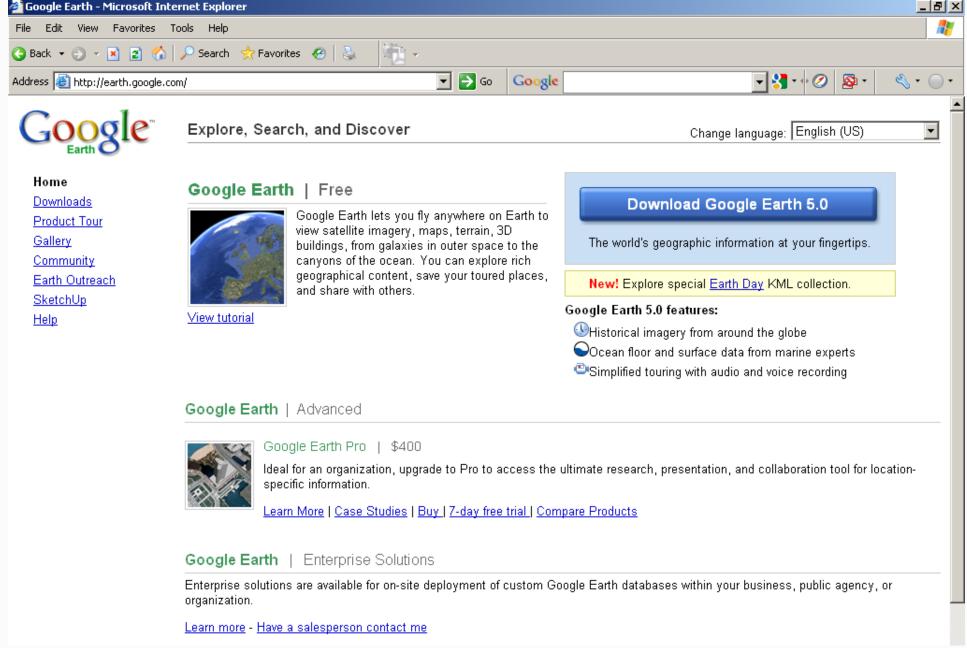


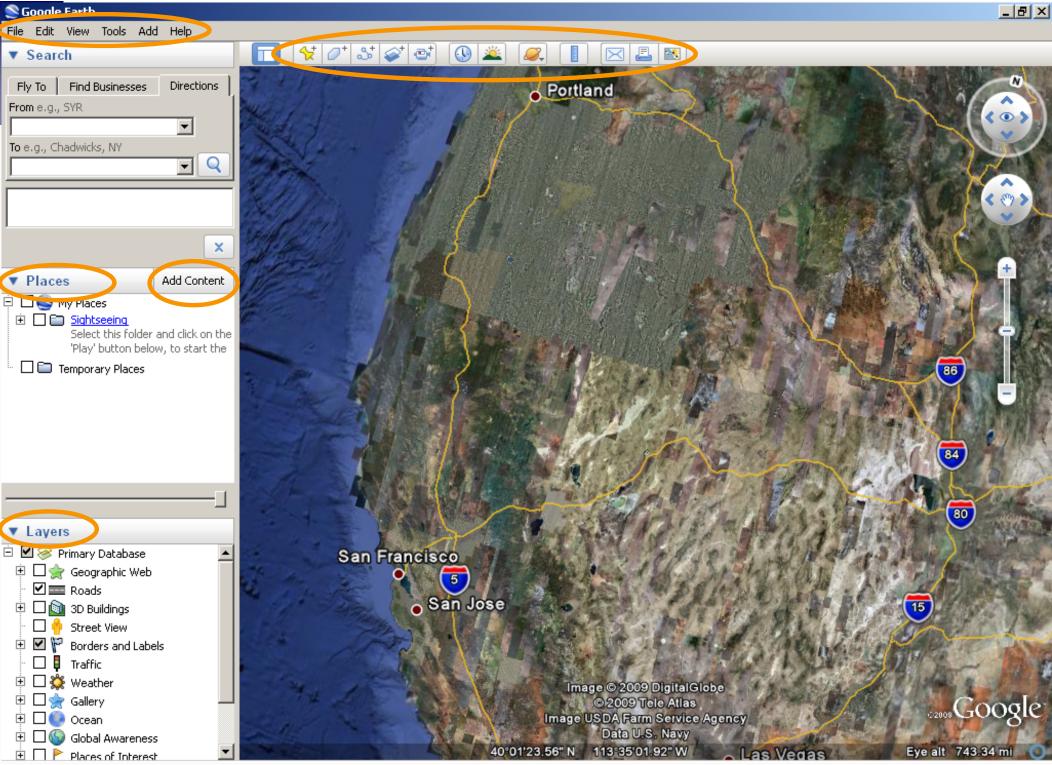




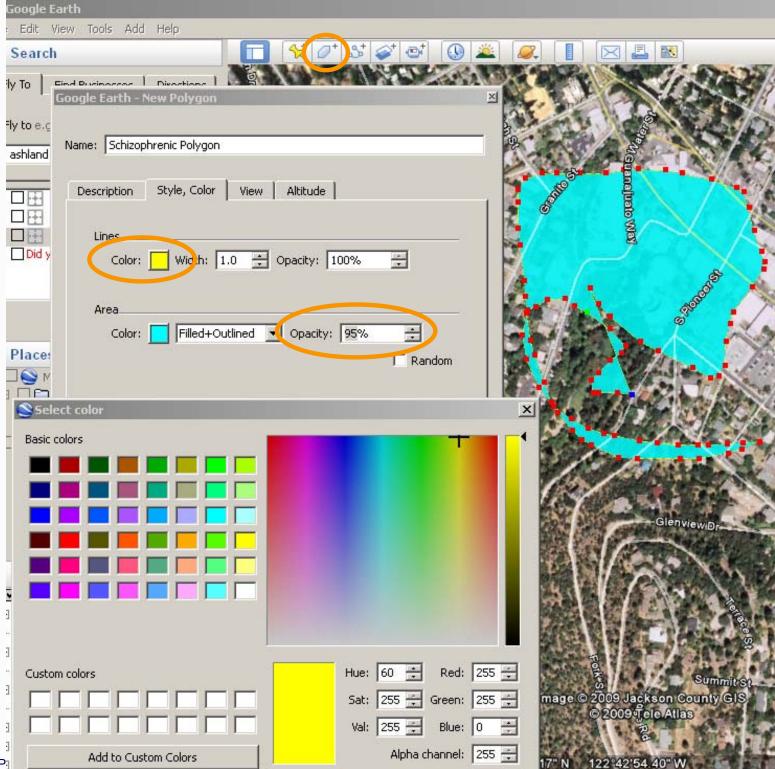


Google Earth earth.google.com

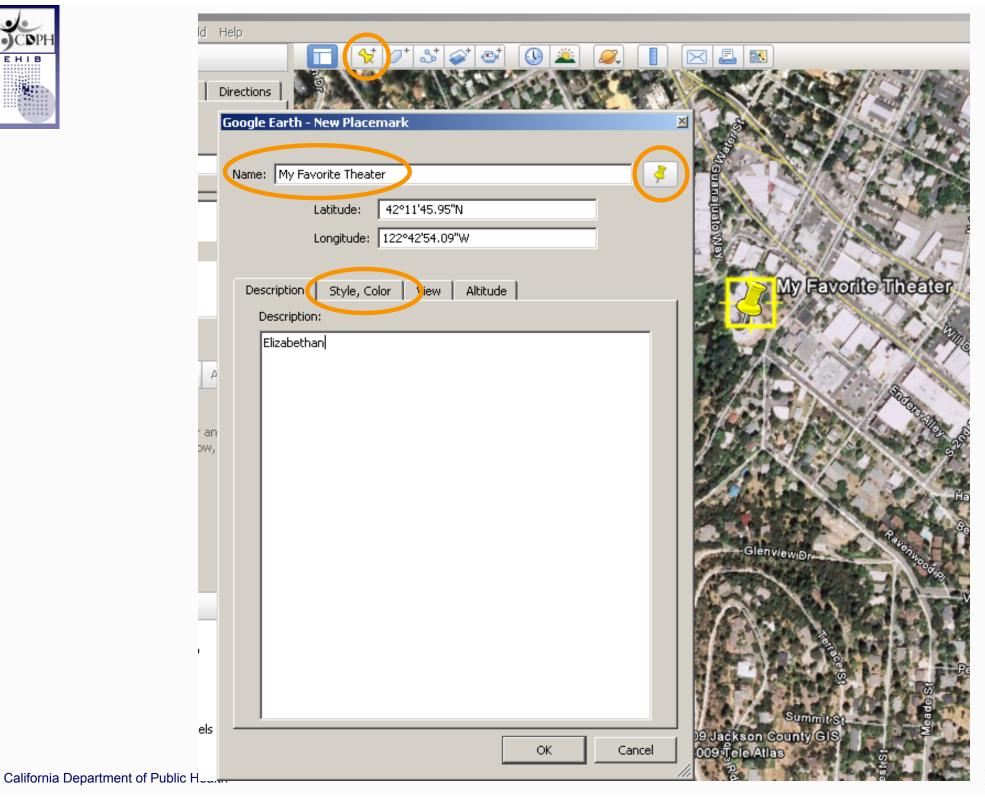




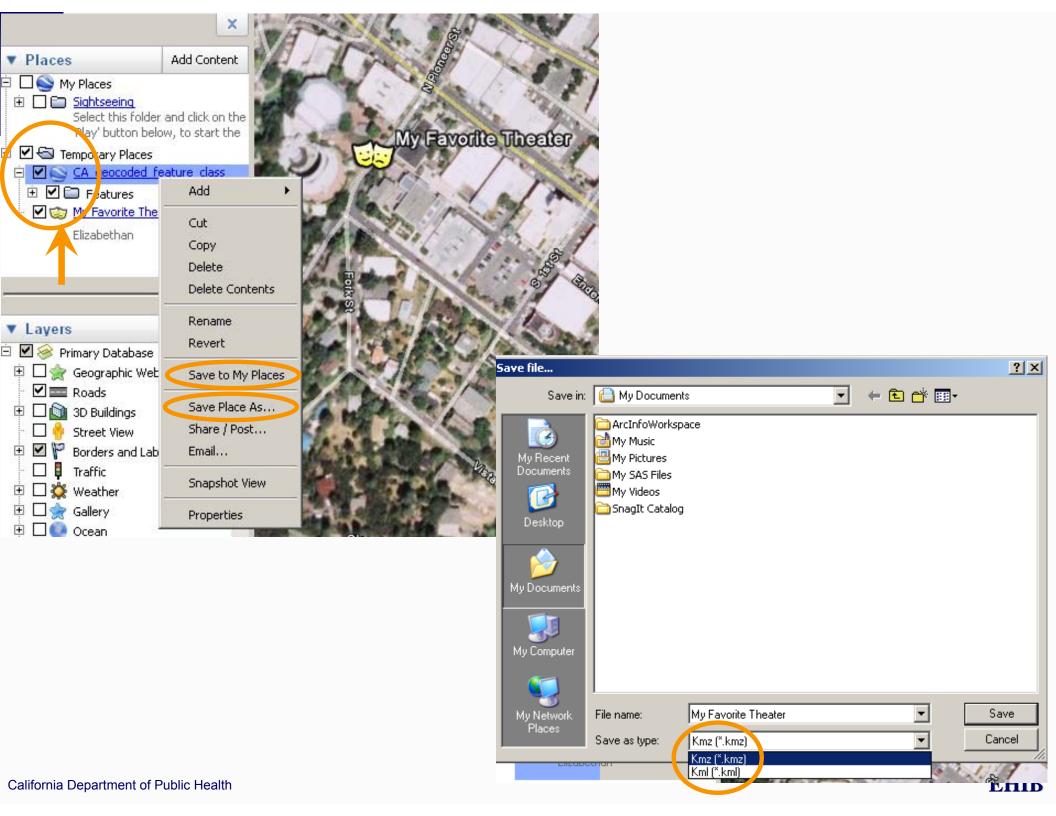








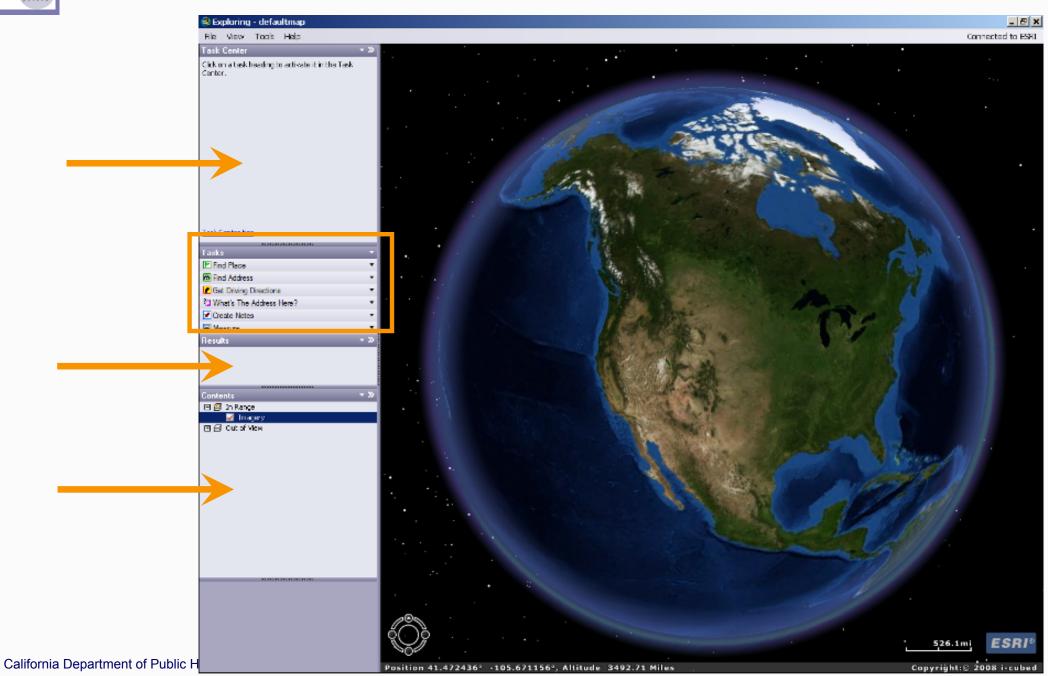




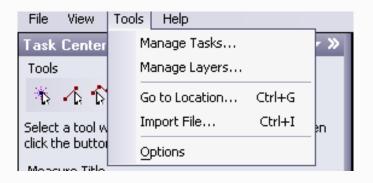


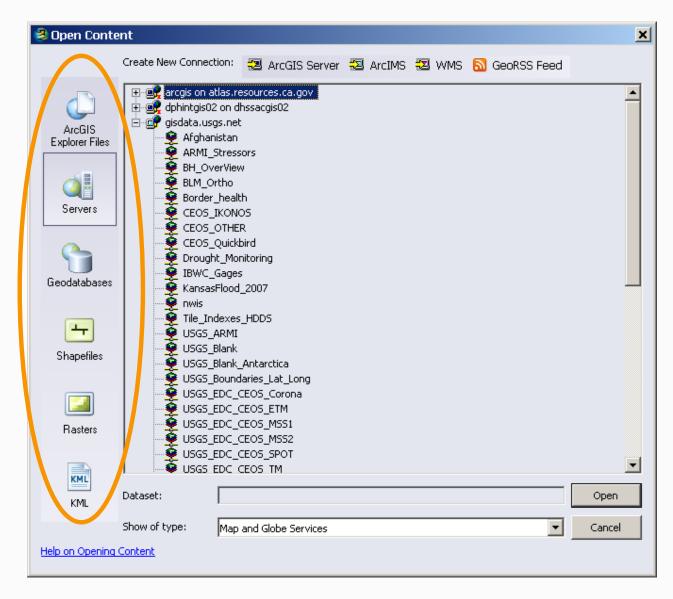
ArcGIS Explorer

http://www.esri.com/software/arcgis/explorer/index.html





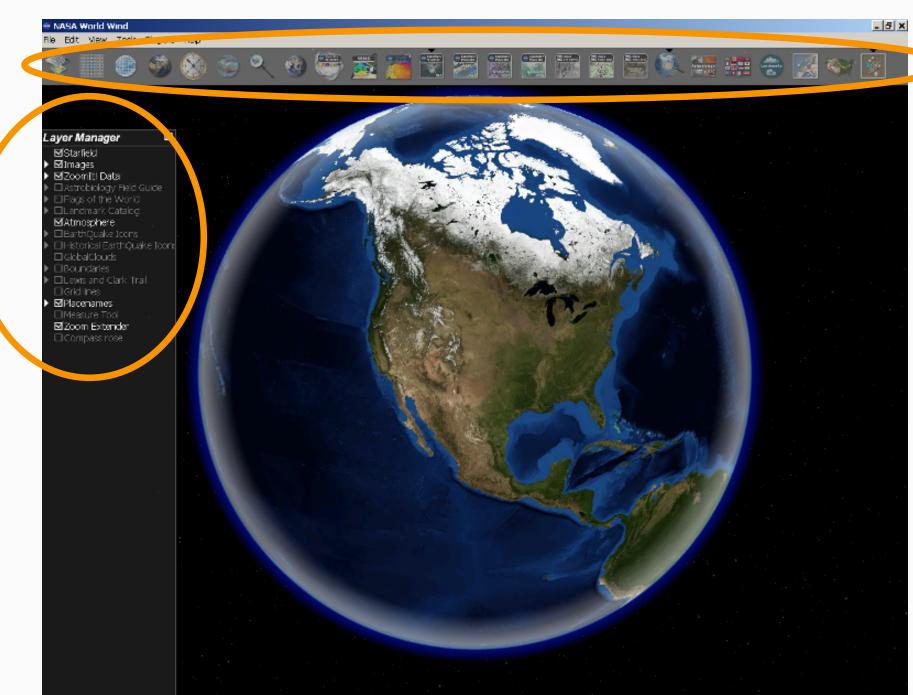




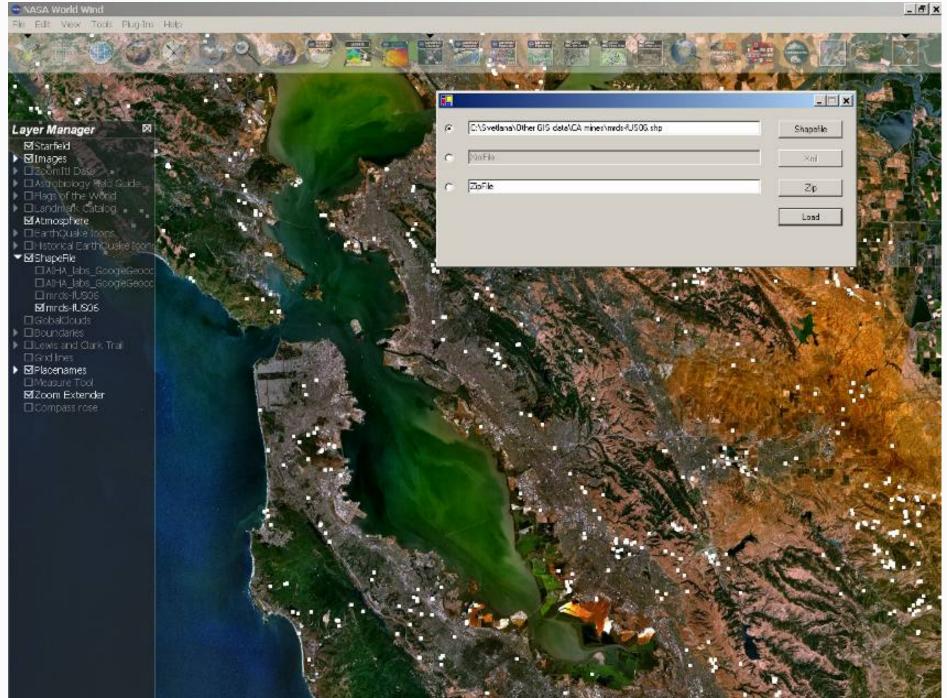




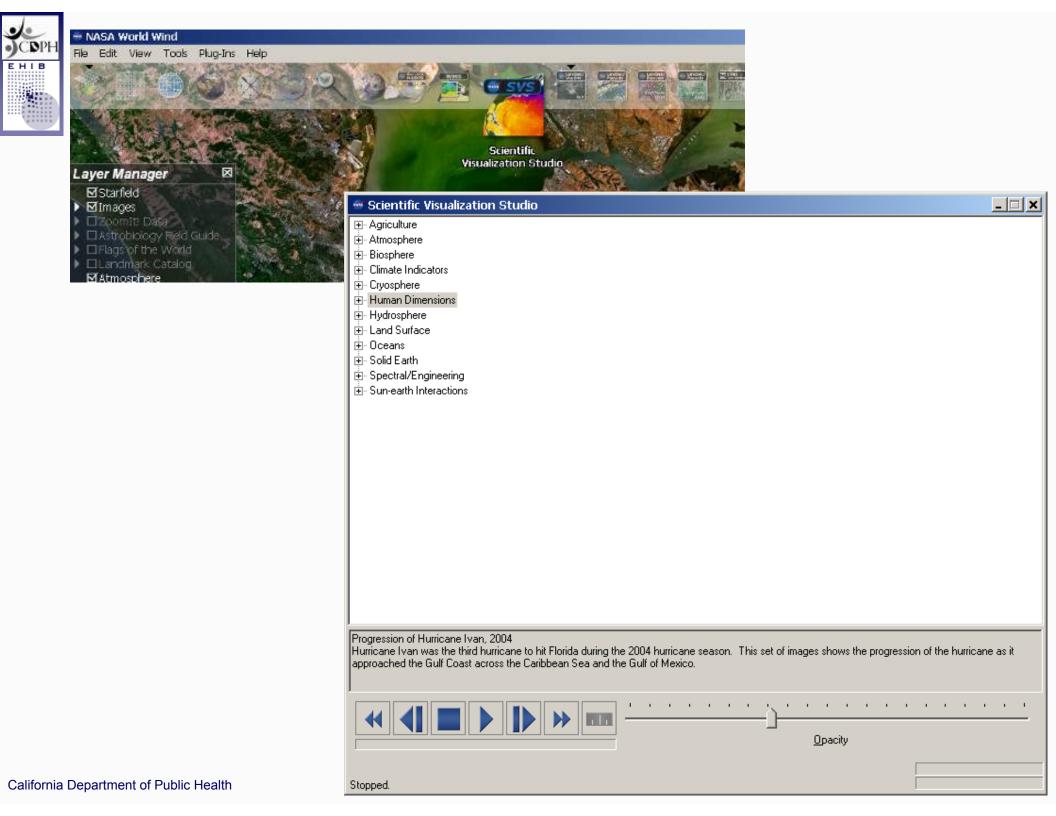
NASA WorldWind http://worldwind.arc.nasa.gov/













iTouchMap.com



Maps | Country - State | Places | Google Earth | Office | Earthq

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To find the latitude and longitude of a point Click on the map, Drag the marker, or enter the...

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Map Center: Land Plat Size - Sheet Mew - Google Earth 3D - Area Photographs

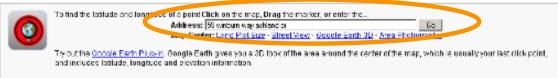
Try out the <u>Bongla Earth Flug-in</u>. Google Earth gives you a 3D look of the area around the center of the map, which is usually your last click point, and includes falloue, longitude and elevation information.

Latitude and Longitude of a Point

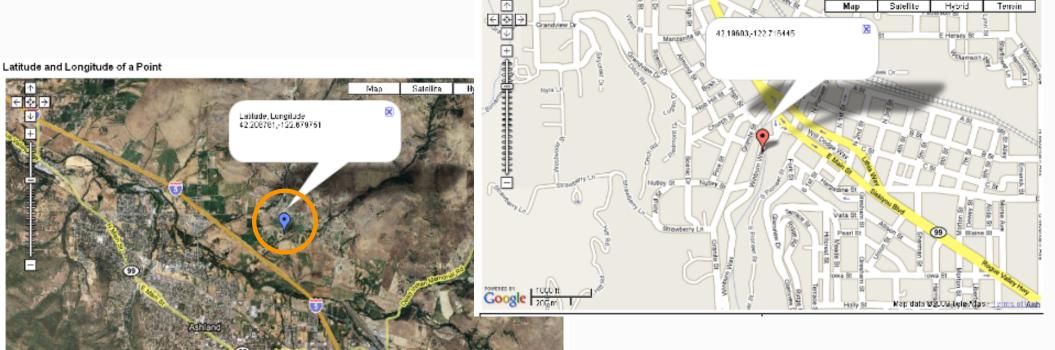


Note: Right click on a blue marker to remove it Centrified Marker Get the Latitude and Longitude of a Point When you click on the map, move the marker or enter an address the latitude and longitude coordinates of the point are inserted in the boxes balow.	Show Point from Latitude and Longitude Use this if you know the latitude and longitude coordinates of a point and want to see where on the map the point is Use: *frr XLator & Long = for \$Lator WLong Example: +40.689060 -74.044636 Mote: Your entiry should not have any embedded spaces.			
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Latitude and Longitude of a Point



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BatchGeocode.com

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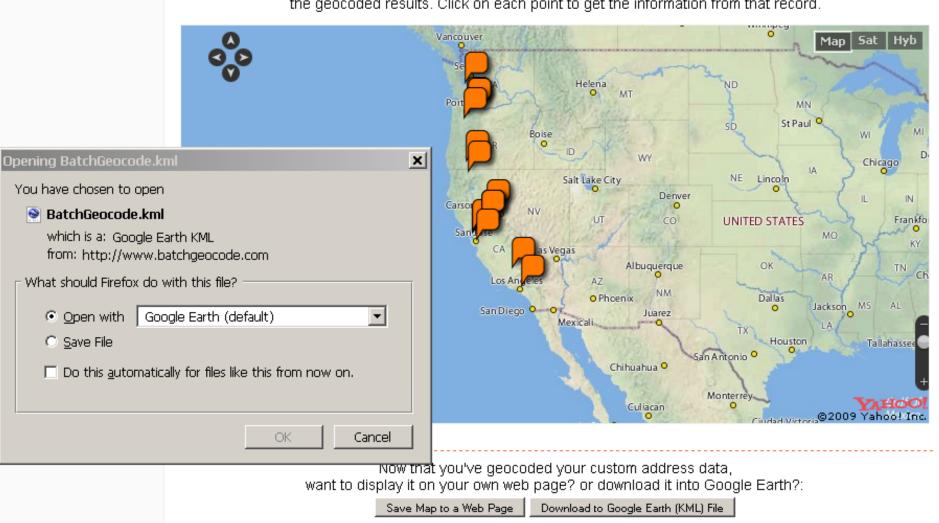


More Mapping Options

o display it on you're geocoded your custom acuress on a display it on your own web page? or download it into Google ba Save Hap to a Web Page | Dovelcad to Google East-(Vint.) File



You're done! Now that you have coordinates for your data, want to see your results on a map? Below is a map of the geocoded results. Click on each point to get the information from that record.





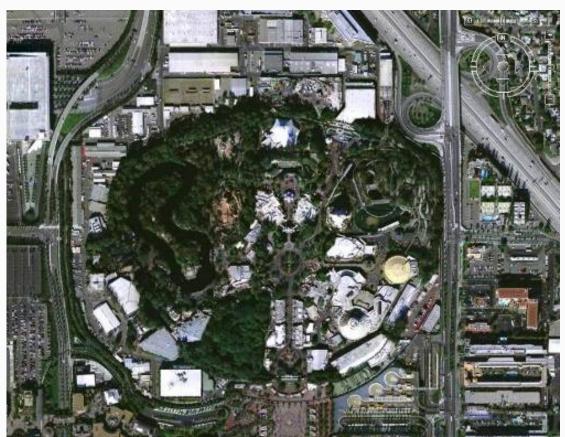


Comments

- Don't use iTouchMap and BatchGeocode for confidential data
- Document, document, document!
 - Keep metadata (a simple text file with your name, date, project name, and map purpose will do)
- When sharing, let the other person know where the file was created
 - Particularly important for GIS techs
- Geocoding is an art as well as science
 - understand pitfalls



Where are you?





Clue: The Happiest Place on Earth