

Geospatial Information Websites

GPS

www.garmin.com

Garmin is the maker of the Oklahoma 4-H GPS units and this will take you to their homepage. If you need to look up an owner's manual or download software, this is the place to go. There are also explanations about the GPS system and how it works.

www.trimble.com

Trimble is another maker of GPS units. This website offers information about the GPS system as well as product information. In the section "All about GPS," there is an excellent tutorial about how DGPS works.

www.nasm.si.edu/exhibitions/gps/index.htm

This link will take you to information about GPS and is sponsored by the National Air and Space Museum. There are lots of interesting information and some pictures on this website.

www.navcen.uscg.gov/gps/default.htm

This is a Coast Guard website that contains general information about the GPS system. There are also links to other interesting GPS sites from here.

<http://gpsinformation.net>

This is a website ran by three men and contains information on specific GPS receivers and equipment. It also has lots of other information available on about every aspect of GPS. Some of the information is older and it is important to remember these are personal thoughts and comments of these men.

http://en.wikipedia.org/wiki/Global_Positioning_System

This is a link to the online encyclopedia Wikipedia entry about GPS. The references and links at the end will lead you to some good sites for more information.

www.geocaching.com

Geocaching is the worldwide game of "hide and seek." By creating a free account, you have access to the coordinates of caches worldwide that can be downloaded to GPS receivers or just written down. There are lots of fun things to look for in caches as well as many other opportunities.

<http://gpshome.ssc.nasa.gov/>

Sponsored by NASA, this website is devoted to GPS and different applications of it. There is a tutorial as well as listings for other helpful resources.

<http://tycho.usno.navy.mil/gps.html>

This link will take you to the navy website containing information about NAVSTAR. This webpage also has a link to the current status of each satellite currently in the satellite constellation.

www.4-H.org

This is the homepage of Technology in 4-H. It contains project ideas and other information related specifically to 4-H technology. It also has information concerning the basics of GPS and GIS and links to other technology and 4-H websites.

www.gpsworld.com/gpsworld

This website provides up to date information about the global positioning industry. There are articles about Galileo (Europe) & GLONASS (Russia) systems as well as NAVSTAR. The articles concentrate on different industry sectors.

GIS

<http://www.esri.com/industries/k-12/index.html>

This website features links about GIS for Schools, including grant information, lesson plans, projects and general information about teaching GIS.

<http://gis2.esri.com/industries/education/arclessons/arclessons.cfm>

This is a direct link to GIS in education or lesson plan search for ESRI. Lessons topics include Map & GIS concepts, GIS software skills, physical/earth science, social studies and others.

www.gis.com

This is a link to ESRI's GIS home page. There are links on the top right of the page that is a great place to start as an introductory to GIS.

www.ersi.com

This is the link to ESRI's homepage. There are beginner's links and well as links to training opportunities. ESRI product and service information is also available here.

<http://gislounge.com>

There are many resources on this website to help you learn and understand GIS. There is also an excellent career/jobs section.

www.cares.missouri.edu

There are interactive maps as well as projects that they are working on in Missouri.

www.geographynetwork.com

This website allows you to explore different GIS maps. (From ESRI) This could be used to familiarize yourself with GIS maps.

www.ncgia.ucsb.edu/pubs/core.html

This website contains information about GIS, creating, managing, and analyzing spatial data. There is instructional curriculum available to assist in learning about GIS and how to use it.

www.zillow.com

This website will show you real estate values for homes in large cities as well as their descriptions. When looking at the maps, it becomes apparent how surroundings can affect the value of a home and land.

MAPPING

ArcGIS Questions email mark.gregory@okstate.edu

<http://plasma.nationalgeographic.com/mapmachine/index.html>

Sponsored by National Geographic, this website allows users to zoom in on a particular area and then change the type of view. By selecting "More theme maps" you can select different themes (weather, farming, population, etc.) to overlay on the map. This is a great teaching aid and fun to play with.

www.youthfavoriteplaces.org

This website allows youth to mark or map their favorite places and share this with others. There is also reference information and a GIS map section.

www.geodata.gov

This website is one place to get federal, state and local geographic data and information.

www.geo.ou.edu

This website contains links to downloadable GIS data for Oklahoma and other geographic data. It is maintained by University of Oklahoma

www.seic.okstate.edu

Metadata for Oklahoma is available and it is maintained by the Oklahoma State University geography department.

www.nationalmap.gov

This website will take you to the National Map Corps project. The National Map Viewer allows you to zoom in on different layers in the United States. There is a link to take you to the national atlas which you can download maps and also look at census data.

<http://earth.google.com/download-earth.html>

This will take you to the website to download the free version of Google Earth. Within Google Earth you are able to add different layers, look at building 3D in large cities and multiple other fun things.

<http://jdmcox.com>

USA photomaps allow the user to download tracks, waypoints, etc onto maps. The program is free and you want to do the full install version. You can view topomaps as well as other neat things.

PRECISION AGRICULTURE

www.openag.info

This site has course components available for free download as part of the USDA IFAFS program and is from North Carolina State University. The information is focused on precision agriculture applications. It allows for distance learning. You will need Adobe Shockwave flash to view files.

www.precisionag.com

This website offers general information as well as current products available in precision agriculture. There are links to the webpage's of many companies that offer equipment and technology for this market sector.

<http://www.trimble.com/agriculture.shtml>

This is a direct link to Trimble's agriculture section. Information concerning their products is listed. There is also links to get more information and to auto steer technology websites.

REMOTE SENSING

www.r-s-c-c.org

This website is a great place to start to learn about Remote Sensing. There is curriculum, application and techniques to name a few things available on this website.

<http://rst.gsfc.nasa.gov/>

This is a tutorial of sorts for remote sensing. There is a wealth of knowledge on this webpage and has great examples of remote sensing projects and applications.

CURRICULUM

www.gis2gps.com

A great resource for educators as this has lesson plans and ideas to do with youth. It is geared toward teachers, but can be adapted to 4-H.

www.geog.okstate.edu/raise/

This is the home page of the Rural Alliance for Improving Science Education. This program is thru Oklahoma State University and three local schools. Available for download are lesson plans developed by graduate students at OSU.

CAREERS

www.geospatialcareers.net

This website will allow you to get information and meet people currently in the geospatial technology field. It also offers information about how to get training and what is important to learn to begin a geospatial career.

<http://www.careervoyages.gov/geospatialtechnology-main.cfm>

This is a link to the Department of Labor website for geospatial technology. It gives an overview of the occupation and educational opportunities. This supports the DOL belief that this technology is one of the three main emerging industries.

FOR MORE INFORMATION

www.ngsednet.org/okage

Website of the Oklahoma Alliance for Geographic Education

<http://lab.nap.edu/nap-cgi/discover.cgi?term=geospatial%20tech&restric=NAP>

This link will take you to the National Academies Press website. This page is the link to the results of a search for geospatial technology. The books are available to read for free on the internet. The Beyond Mapping: Meeting National Needs through Enhanced Geographic Information Science is a great source of information and is an interesting read.

<http://www.joe.org/joe/2005june/a6.shtml>

This link is to a *Journal of Extension* article about where to start and what to know for extension professionals wanting to learn more about geospatial technology.