

SELECTED SCIENCE RESOURCES from the U.S. government

Online Portal –

- Science.gov
 - <http://www.science.gov>
 - “The gateway to authoritative selected science information provided by U.S. government agencies. Can search within broad categories (astronomy & space ; applied science & technologies, etc.).
 - Selected material **from 45 databases** (including NASA Technical Reports Server, NTIS, PubMed) from 14 federal agencies – *more than 200 million* pages of scientific information
 - From the Dept. of Energy (DOE) – Office of Scientific & Technical Information (OSTI)
 - Link (lower right): “Special collections” to “Federal R&D Summaries” (see entry under “Research” for full information)
- WorldWideScience.org
 - <http://worldwidescience.org/>
 - Allows users to quickly search -- at no cost -- over 400 million pages of important science information, across every inhabited continent, with just one single query.
 - Developed and maintained by DOE’s OSTI
- USA.gov
 - <http://www.usa.gov/>
 - Updated daily
 - Images searchable at results page (for NASA, NOAA, etc.)

Bibliographies

- Government Databases in Science & Technology (from St. Mary’s University)
 - <http://library.stmarytx.edu/acadlib/doc/electronic/dbst.htm>
- Science and Technology Government Information Sources (from ACRL’s STS section – Government Information Committee)
 - http://wikis.ala.org/acrl/index.php/Government_Information_Sources_for_Science_and_Technology

Biology & Biotechnology

- Bioethics Resources on the Web (from the NIH)
 - <http://bioethics.od.nih.gov/>
- Biometrics.gov
 - <http://www.biometrics.gov/>
- National Center for Biotechnology Information (NCBI)
 - <http://www.ncbi.nlm.nih.gov/>

Climate/Weather

- Global Warming (presentation to the EPA, December 2008, by MIT Professor of Atmospheric Sciences, Dr. Richard Lindzen)
 - [http://yosemite.epa.gov/ee/epa/wpi.nsf/09133da7fb9a95db85256698006641d1/0e4e53113f856d848525751b0070e6d3/\\$FILE/Lindzen-12-9-08.pdf](http://yosemite.epa.gov/ee/epa/wpi.nsf/09133da7fb9a95db85256698006641d1/0e4e53113f856d848525751b0070e6d3/$FILE/Lindzen-12-9-08.pdf)
- Drought...(from NOAA) -
 - <http://www.drought.gov> - ["U.S. Drought Portal" – more specifically, the National Integrated Drought Information System]
 - <http://www.drought.noaa.gov/> [Drought Information Center - archive]
- National Hurricane Center (part of NOAA)
 - <http://www.nhc.noaa.gov/>
 - For current info.
 - <http://www.nhc.noaa.gov/pastall.shtml>
 - Past tracks of hurricanes

Climate Data (Historical)

- NCDC: Most Popular Products – Free Data
 - <http://www.ncdc.noaa.gov/oa/mpp/freedata.html>
 - From NOAA's National Climatic Data Center (NCDC)
 - Online access is **FREE** for these domains:
.gov .edu .mil .k12 .us
 - Select "Most Requested"
 - *Local Climatological Data*
(1923- present for Georgia)
For most recent (loaded daily), select "quality controlled"
Hourly summary as well as daily observations
For historical, select "edited monthly"
 - *Hourly Precipitation Data*
1951-Nov. 2010
 - *Annual Climatological Summary*
1931 – present
Gives monthly data, year-by-year for each station
 - *Storm Data*
1950- 2011 (approx. 6 month delay)
 - Note that U.S. federal depository libraries have an ID/password access for additional information.
- Climatic Extremes and Weather Events
 - From NOAA's NCDC
 - <http://ncdc.noaa.gov/oa/climate/severeweather/extremes.html>

Earth Sciences

- Earthquake Information Center
 - <http://earthquake.usgs.gov/>
- Tsunami (from NOAA)
 - <http://www.tsunami.noaa.gov/>

Endangered Species

- Endangered Species Program (from the U.S. Fish & Wildlife Service)
 - <http://www.fws.gov/endangered/>
- Special Concern Animal Species in Georgia (from the Dept. of Natural Resources)
 - <http://georgiawildlife.dnr.state.ga.us/content/specialconcernanimals.asp>

Energy

- U.S. Department of Energy (DOE)
 - Fuel Economy (compare cars, new & used): <http://www.fueleconomy.gov/>
- Energy Information Administration (EIA)
 - <http://www.eia.gov/>
EIA is the statistical and analytical agency within the Dept. of Energy.
For country information, see: <http://www.eia.gov/countries/>
For state energy profiles, see: <http://www.eia.gov/state/>
- Energy Statistics Database (from the UN)
 - <http://data.un.org/Explorer.aspx?d=EDATA>
1990-2008 (free; data from 1950 onward available as a fee database)
Country-specific – production, trade, and consumption
- International Energy Agency (IEA)
 - <http://www.iea.org/stats/index.asp>
IEA statistics, country-specific.
For excellent worldwide overview, select: Key World Energy Statistics (left frame): http://www.iea.org/textbase/nppdf/free/2010/key_stats_2010.pdf
- DOE R&D Project Summaries
 - <http://www.scienceaccelerator.gov/>
Select “advanced search” for this specific database within Science Accelerator

Environment

- Environmental Protection Agency (EPA)
 - <http://www.epa.gov/>
 - By topic : select “Learn the Issues” ; “Science and Technology”
 - <http://www.epa.gov/myenvironment/>
- ToxMap
 - <http://toxmap.nlm.nih.gov/>
From the National Library of Medicine (on the campus of the National Institutes of Health - NIH)
“Superfund” sites and Toxics Release Inventory (TRI) sites and info. TRI is a database on disposal or other releases of over 600 toxic chemicals for thousands of U.S. facilities. State-by-state fact sheets too.
- Envirofacts
 - <http://www.epa.gov/enviro/>
 - From left frame – “Quick Start” – select geographic level (down to zip code)
- AIRNow
 - <http://www.airnow.gov>
 - From upper-right, select: “Current Ozone & Particle Maps” ; or, “Compare Your City’s Air Quality”. Reports available for emissions, hazardous air pollutants, etc.
- Gulf Oil Spill
 - <http://libguides.gatech.edu/content.php?pid=88170&sid=1178095>
 - Selected sources and links from the Government Information Research Guide (Georgia Tech)
 - Links to the independent commission’s reports
- Earth Day Research Guide
 - <http://libguides.gatech.edu/earthday>
 - Selected sources and links compiled by 3 Georgia Tech librarians.

Food Safety

- FoodSafety.gov
 - <http://www.foodsafety.gov/>
Recalls; sign up for alerts
- CDC – Division of Foodborne, Waterborne, and Environmental Diseases
 - <http://www.cdc.gov/ncezid/dfwed/>
Select “multi-state foodborne outbreaks”

Health/Medicine

- National Library of Medicine
 - PubMed -- abstracts of journal articles
 - <http://www.ncbi.nlm.nih.gov/pubmed/>
 - Medline Plus -- For patients and their families and friends; information about diseases, conditions, and wellness issues.
 - <http://www.nlm.nih.gov/medlineplus/>

Minerals

- Minerals Yearbook
 - <http://minerals.usgs.gov/minerals/pubs/myb.html>
 - Worldwide production and industry information on metals, minerals and commodities (90 total) for more than 175 countries.
 - Vol. II is state-by-state; Vol. III has international reports
 - <http://minerals.usgs.gov/minerals/pubs/usbmmyb.html> (for 1932-1993)

Nuclear

- International Nuclear Safety Center
 - <http://www.insc.anl.gov/> -- created in 1996; unable to access site in Sept.
 - Database from Argonne National Laboratory. Can select tabs: Maps ; Facilities.
 - Gives status of nuclear facilities (under construction, permanently shutdown, etc.) plus detailed data.
- U.S. Nuclear Regulatory Commission
 - <http://www.nrc.gov/>
 - For U.S. facilities, detailed information.
- State Nuclear Profiles
 - http://www.eia.gov/cneaf/nuclear/state_profiles/nuc_state_sum.html
 - From the Energy Information Administration (EIA)
- International Atomic Energy Agency
 - <http://www.iaea.org/>

Patents

- U.S. Patent and Trademark Office – Search page (select “Quick Search”)
 - <http://patft.uspto.gov/>
 - Georgia Tech Library is the only USPTO “resource center” for patents in Georgia (note: Clemson and Auburn are also in the program).
 - Patents and Trademarks: http://libguides.gatech.edu/patent_guide
 - Patents and Trademarks: Detailed Guide <http://libguides.gatech.edu/patents>

Research

- NTIS (National Technical Information Service) technical reports.
All topics, 1964 to present
 - <http://www.ntis.gov/search/index.aspx>
- NASA's National Technical Reports Server (NTRS)
 - <http://ntrs.nasa.gov/search.jsp>
- DTIC Online (Dept. of Defense)
 - <http://www.dtic.mil/dtic/search/tr/tr.html>
- Transportation Research International Database (TRID). This new database combines: Transportation Research Information Services (TRIS) and OECD (ITRD)
 - <http://trid.trb.org/search.aspx>
- Department of Energy (DOE)
 - DOE Information Bridge. All full-text, Jan. 1995-
<http://www.osti.gov/bridge/advancedsearch.jsp>
 - Energy Citations Abstracts. 1948 to present. Bibliographic records for DOE and predecessor agencies. Links to many full text technical reports.
<http://www.osti.gov/energycitations/advancedsearch.jsp>
 - ETDE World Energy Base. 1995 to present. Worldwide energy information. Bibliographic record; links to selected full text technical reports. From Oak Ridge National Laboratory. Free to U.S. citizens (requires registration).
<http://www.ornl.gov/info/library/etdeweb.htm>

Space

- NASA
 - <http://www.nasa.gov>
 - NASA Technical Reports Server (NTRS)
 - <http://ntrs.nasa.gov/search.jsp>
Recent "report" in NTRS : Wings in Orbit: Scientific and Engineering Legacies of the Space Shuttle, 1971-2010 [547 pgs] ; a treasure trove of info. Available at: <http://hdl.handle.net/2060/20110011792>
- Space Flight
 - NASA – the Space Shuttle Timeline, orbiter facts, crew directory, and more.
 - http://www.nasa.gov/externalflash/the_shuttle/
 - Apollo by the Numbers: a Statistical Reference [345 pgs.]
http://ntrs.nasa.gov/archive/nasa/casi.ntrs.nasa.gov/20010008244_2001006037.pdf

Especially for K-12:

- Kids.gov
 - <http://www.kids.gov/>
 - Grades K-5 and 6-8 (select “Science). Also “Educators” tab
- NASA’s Space Place
 - <http://spaceplace.nasa.gov/>
- For the Environmental Protection Agency (EPA)
 - <http://www.epa.gov/students/>
Homework resources (by topic) ; teacher resources (includes lesson plans)
 - Teen Resources - Environmental Consciousness
<http://www.epa.gov/Topics/Teens.shtml>