
ESIC NEWS

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NDGS ESIC Coordinator



The NDGS is an affiliate of the Earth Science Information Center (ESIC) network. The U.S. Geological Survey coordinates the nationwide ESIC network, which provides information about geology, hydrology, topography, and land use in the form of maps, books, reports, and aerial, satellite, and radar images, and related products. ESIC also publishes and distributes earth science data in digital form. As an ESIC office, the NDGS can assist the public in locating earth science materials dealing with North Dakota. For more information, contact Fred Anderson, Donna Bauer, or Elroy Kadrmay by phone at (701) 328-8000.

GENERAL INFORMATION

The North Dakota Geological Survey continues to make the following maps available through our publications office:

The Middle East Graphic (1:4,500,000) \$15.00
Iraq (1:1,250,000) \$10.00
Baghdad (1:40,000) \$10.00
Tikrit, Al Basrah, Al Mawsil, Karkuk \$15.00 each.
Lewis and Clark: A Legacy of Science \$10.00
National Wildlife Refuge System Map \$7.00

USGS Ends Photographic Production

The USGS EROS Data Center (EDC) Photo Lab has discontinued taking orders for traditional photographic products as of September 3, 2004. EDC has transitioned from providing traditional photographic products from its film archive to providing digital versions (only) from which paper prints can be generated by computer-linked printers or plotters. Since the early 1970's, the USGS has offered these archived photographic products for sale.

Two new digital products will be offered. The first is a high-resolution, digitally scanned product, which will be made available upon request starting in July 2004. This product is created at approximately 1200 dpi with an output file size of approximately 120 megabytes from a black and white photograph or 360 megabytes from a color photograph. Both are provided in a TIFF format. The cost will be \$24 for cleaning and scanning each frame plus the standard media generation costs of, \$45/CD, \$60/DVD or \$30/file if ftp format is requested.

The second digital product is a medium-resolution digitized product, available on-line as the rolls of film are digitized beginning in October 2004. This product is created at approximately 600 dpi with an output file size of approximately 15 megabytes from a black and white

photograph, or 45 megabytes from a color photograph, both also provided in a TIFF format. The cost for this product will be \$1 per file access fee, along with the media generation costs of \$30/file if ftp'd, \$45/CD, or \$60/DVD.

Samples of both digital products covering two frames of photography over an area of New York City, acquired in 1966 at a scale of 1:24,000 are available to FTP from the following location:

http://edc.usgs.gov/phoenix_iv/new_york

USGS Reduces Price for Landsat 7 Scenes

The U.S. Geological Survey (USGS) is reducing the price of Landsat 7 scenes with gaps in data resulting from a satellite anomaly in May of 2003. Scenes that contain data gaps will be reduced from \$600 to \$250. Scenes with the gaps filled in using data acquired prior to the anomaly will also be offered at a reduced price of \$275. The new product being offered for \$275 will have the gap areas filled in with Landsat 7 data acquired prior to the scan line corrector (SLC) failure at a similar time of the year. The two scenes are geometrically registered, and a histogram matching technique is applied to the fill pixels that provide the best-expected radiance values for the missing data.

The new product represents an effort by the USGS Landsat 7 Project at the EROS Data Center (EDC) in Sioux Falls, South Dakota to increase the utility of the Landsat 7 Enhanced Thematic Mapper Plus (ETM+) data affected by the non-functional scan line corrector.

A sample product, with a comparison of the degraded data, further information, a complete list of the new pricing structure, and regular updates on planned product releases can be found at:

http://landsat7.usgs.gov/slc_enhancements/.

For further information on these products, contact Fred Anderson, Donna Bauer, or Elroy Kadrmay by phone at (701) 328-8000 or you may contact EDC Customer Services directly at: custserv@usgs.gov, or 1-800-252 4547

Historical Trail Map of the Leadville 1° x 2° Quadrangle

A recent collaboration between the Denver Public Library, Western History and Genealogy Department, and the Colorado Railroad Museum has produced the newest map in the Geological Investigation Series. The Leadville map is the eleventh map in a series of historic maps published

by Glen Scott over a period of more than 30 years. Colorado Territory was officially established in 1861. Statehood followed shortly thereafter in 1876. The Leadville area began to become settled in the late 1850's as a result of the discovery of ore deposits. Native Americans used many of the historic trails depicted on this map long before trappers and settlers first arrived.

Included with the Leadville map is a 90-page booklet describing the history of Leadville along with photographic and trail references.

Title: Historic Trail Map of the Leadville 1° x 2°
Quadrangle
Stock #: 116047
Size: 48" x 50"
Price: \$7.00 for the map and booklet, plus \$5.00
handling charge

National Wilderness Preservation System Map

The National Wilderness Preservation System was established by Congress in 1964 under the Wilderness Act. Federal lands that qualify as wilderness must be designated by Congress through legislation. Wilderness areas can be found in all but six states of the U.S. This map has been compiled at a scale of 1:5,000,000 and is a colorful, 2-sided, flat-map. Depicted on one side of the map are the locations of wilderness areas on a map of the lower 48 states, along with insets of Alaska and Hawaii. The explanation of a wilderness area in addition to a list of wilderness area characteristics is included with selected photographs.

This map will be of great interest to local and regional natural resource managers, scientific and engineering educators and industry professionals, government agencies and the general public.

Title: National Wilderness Preservation System
Stock #: 101414
Size: 40" x 49"
Price: \$7.00 for the map and pamphlet, plus \$5.00
handling charge

World Heritage Site – Bien Du Patrimoine Mondial, Kluane/Wrangle-St.Elias/Glacier Bay/Tatsehnshini-Alsek

This newest Alaska map depicts the four parks that make up a single World Heritage Site that covers 24.3 million acres. Together they comprise the largest internationally protected land-based ecosystem on the planet. This map includes many types of the tallest peaks on the continent, the world's largest non-polar ice field, extensive glaciers, vital watersheds, and expanses of dramatic wilderness. The map was prepared in cooperation with the National Park Service, Parks Canada, and BC Parks. The map is printed in English and French.

Title: World Heritage Site – Bien Du Patrimoine
Mondial, Kluane/Wrangle-St.Elias/Glacier
Bay/Tatsehnshini-Alsek
Stock#: 116124
Scale: 1:750,000
Size: 42" x 36"
Price: \$7.00 for the map plus \$5.00 handling charge

New Earthquake Map

The Earthquakes and Fault Map of the San Francisco Bay Area, 1970-2003, shows earthquakes of magnitude 5.0 and greater along with faults in the San Francisco Bay Area. The data are compiled from records from 1970-2003. The bathymetry was generated from a digital version of NOAA maps and hydrogeographic data for San Francisco Bay. Elevation data are from the USGS National Elevation Database (NED) and the Landsat satellite image is from seven Landsat 7 Enhanced Thematic Mapper Plus scenes. Fault data are reproduced with permission from the California Geological Survey and the earthquake data are from the Northern California Earthquake Catalog.

Title: Earthquakes and Fault Map of the San
Francisco Bay Area, 1970 - 2003, (1-2848)
Scale: 1:300,000
Stock #: 116286
Size: 36" x 48"
Price: \$7.00 for the map plus \$5.00 handling charge

EDUCATIONAL MATERIALS

USGS Learning Web

Students as well as other interested individuals can locate numerous educational resources on the USGS Learning Web at www.usgs.gov/education. This web site is dedicated primarily to K-12 education and those engaged in life-long learning. Educators and homeschoolers can locate lesson plans with activities covering maps, environmental and global change, and many others. This web site also provides access to many useful research tools with links to earth science related glossaries and help with homework assignments. Many publications available at this web site are available as web-only documents.

MAPPING, REMOTE-SENSING, AND GIS-RELATED WEB SITES:

USGS Earth Science Information Center

For help finding a product, ordering a product, or if you have any questions, please contact the USGS Earth Science Information Center (ESIC):
1-888-ASK-USGS (1-888-275-8747)
ask@usgs.gov (email)
<http://ask.usgs.gov/>

USGS Homepage

<http://www.usgs.gov/>

USGS Global Geographic Information System (GIS) database:

The U.S. Geological Survey (USGS) and The American Geological Institute (AGI) have announced a cooperative agreement focused on making the USGS Global Geographic Information System (GIS) database available to educators and the general public in the form of a DVD based world atlas. The USGS Global GIS database contains a wealth of USGS and other public domain data, including global coverages of elevation, landcover, seismicity, and resources of minerals and energy at a nominal scale of 1:1 million. The GIS, which will run on the included Environmental Systems Research Institute's (ESRI) ArcView Data Publisher software, will be produced both by region on seven CD-ROMs and on a single DVD. Further information can be found by linking to:

<http://webgis.wr.usgs.gov/globalgis/>