

MiniCatalog of Map Data

National Mapping Program



U.S. Department of the Interior
Geological Survey
National Cartographic
Information Center (NCIC)

As the Nation's principal conservation agency, the Department of the Interior has responsibility for most of our nationally owned public lands and natural resources. This includes fostering the wisest use of our land and water resources, protecting our fish and wildlife, preserving the environmental and cultural values of our national parks and historical places, and providing for the enjoyment of life through outdoor recreation. The Department assesses our energy and mineral resources and works to assure that their development is in the best interest of all our people. The Department also has a major responsibility for American Indian reservation communities and for people who live in Island Territories under U.S. Administration.

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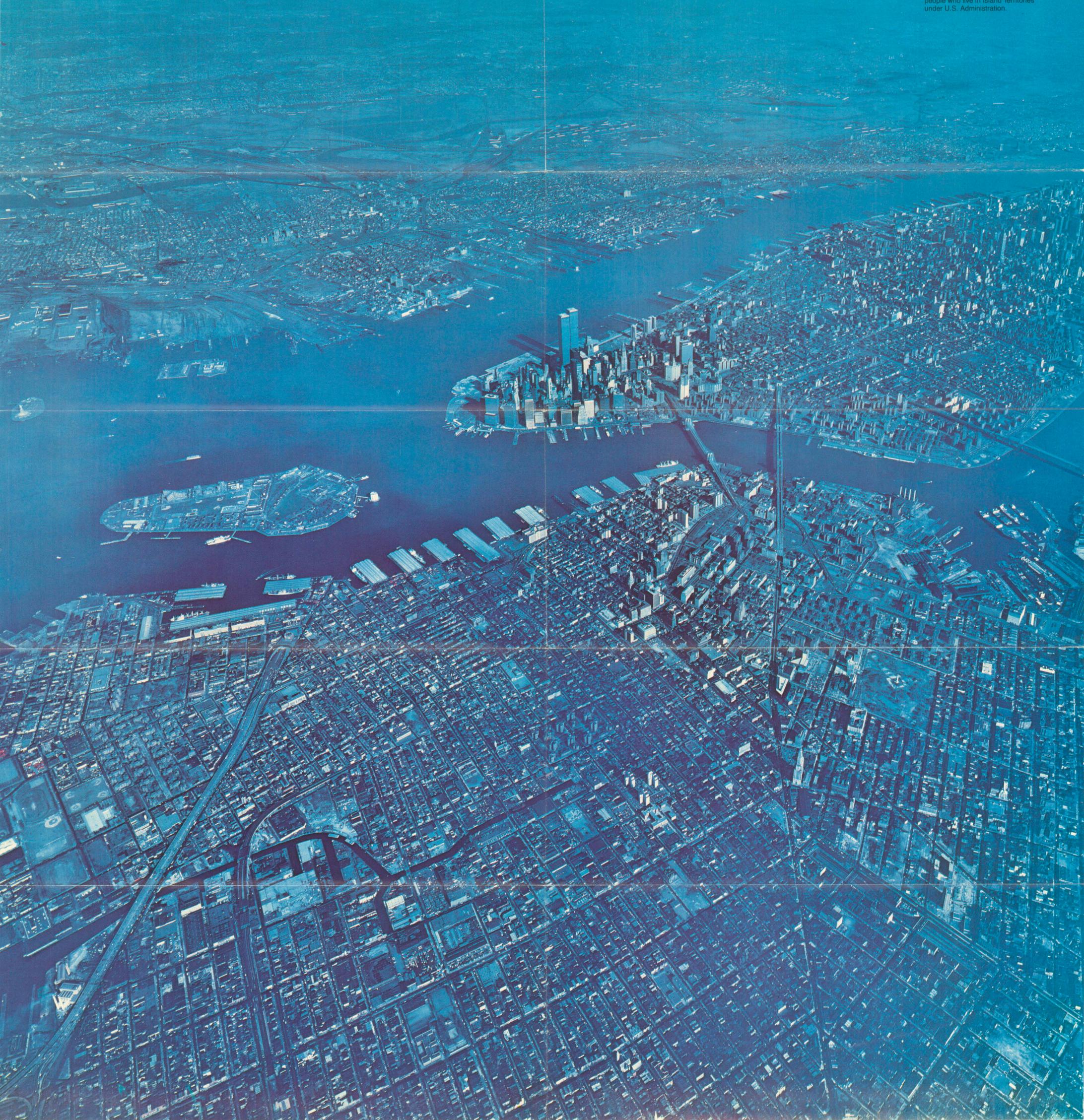
Microfilm

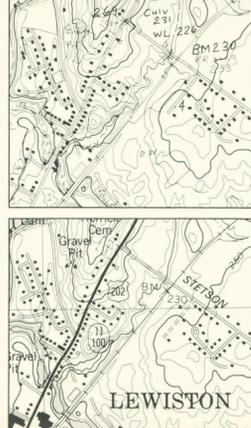
Aerial Photography Summary
Record System

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Geographic search
and inquiry systems

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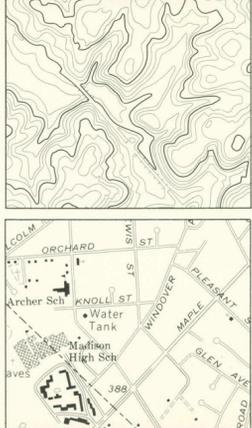


Advance prints

Advance prints are black-and-white prints of topographic maps now in progress.

Examples, depending on stage of progress, are: • Prints of mapping manuscripts compiled from aerial photos. • Unedited advance prints (with-out names); field mapping and checking are complete. • Partially edited advance prints (with names); final drafting is complete.

The advance prints currently offered for sale are listed in an *Advance Material Index*. Each index covers one or more States.



Color separates

You can order a separate film positive or negative of each color shown on a USGS topographic map.

Generally speaking, on most maps: • Black shows cultural features and names. • Blue shows water features and names. • Red shows highway classifications, built-up areas, and U.S. land survey lines. • Green shows areas of woodland, orchards, and vineyards. • Brown shows topographic features. • Purple shows unverified data on photo-revised maps.

Two or more separates can be combined on a single film. Current USGS topographic maps are shown on *Indexes to Topographic Maps*. Each index covers one or more States.

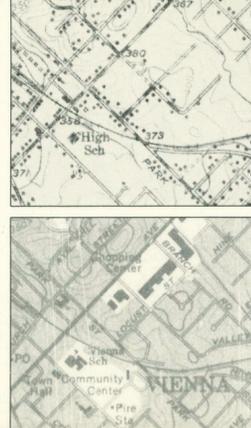


Feature separates

Feature separates are now available for new metric topographic maps published by the Geological Survey at scales of 1:25,000 and 1:100,000. To compile these maps, major features were divided into classes, and a separate drawing was made for each class to be printed in each color.

You can order a film positive or negative of each drawing. Two or more drawings can be combined to form a B&W composite on a single piece of film.

Current USGS topographic maps are shown on indexes. Each index covers one or more States. For details, write or phone any Mapping Center NCIC office.



Out-of-print maps

You can order B&W photo enlargements from microfilm of out-of-print USGS topographic maps. A USGS map is out-of-print when the sales stock of the map has been depleted and USGS has decided not to reprint it.

Successive editions of out-of-print maps provide a treasury of information that can be used to trace changes that have occurred in a given area.

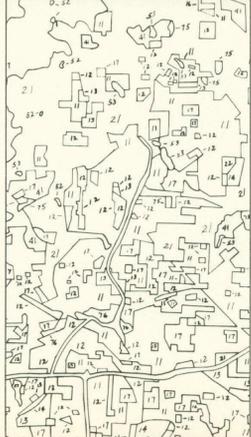
There is no index of out-of-print maps, but USGS publishes a current *Index to Topographic Maps* for each State. These indexes are useful for pinpointing the area for which you want out-of-print maps.

Land-use and land-cover and associated maps

USGS is now compiling land-use and land-cover maps of the entire United States. They are based on USGS maps at scales of 1:250,000 or 1:100,000.

Land-use and land-cover is shown in 9 general categories and 37 subcategories. A set of four associated maps (overlays) of each land-use and land-cover map shows: • Political units. • Hydrologic units. • Census county subdivisions. • Federal land ownership.

Maps currently available are listed in an *Index of Land-Use and Land-Cover and Associated Maps*.



Slope maps

Slope maps delineate areas that have certain critical ranges of slope. The slope (or gradient) is usually expressed as a percentage, based on the ratio of vertical to horizontal distance on the ground. Different slope zones are usually shown by different colors.

Very few slope maps have been published. Because most of them have been prepared to meet a specific request, no standard set of zone categories has been developed.

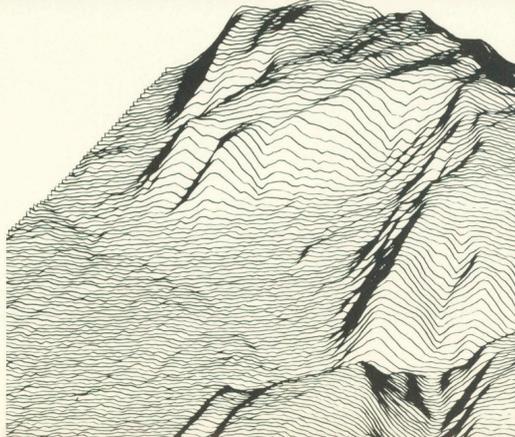
For details, write or phone any Mapping Center NCIC office.

Digital terrain tapes

The tapes are digital records of terrain elevations. They are available in 2 basic formats: a complete 7.5-minute quadrangle and a complete 2x1 degree quadrangle.

Applications of the tapes are limited only by the accuracy of the original maps used to produce the tapes. For example, they have been used to graphically display slope, direction of slope, and terrain profiles between designated points.

The *Digital Terrain Tapes User Guide* explains the development, format, and accuracy of the tapes, and it provides complete ordering instructions.



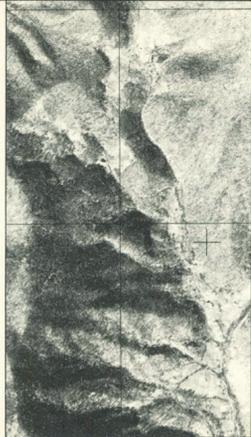
Maps on microfilm

You can order current and out-of-print USGS topographic maps on positive or negative 35-mm microfilm.

The microfilm rolls are sold by State only. If complete State coverage is required, your order should include adjacent States.

The rolls of microfilm enable you to maintain a complete file of current and out-of-print USGS topographic maps in a small space and at very low cost.

Each roll contains as many as 500 maps at a reduction ratio of 20x. The rolls may be ordered on silver-based or diazo film.

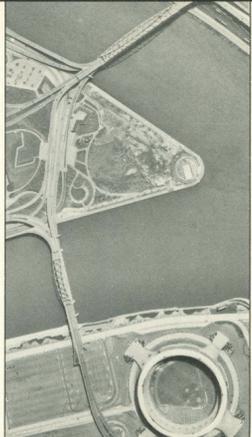


Orthophotoquads

Orthophotoquads are B&W photo images in standard USGS quadrangle format. They can be used as map substitutes for unmapped areas and for areas in need of revision. They are valuable map complements and can be used as a base for special-purpose maps.

They show detail that cannot easily be shown by map symbols. But cartographic treatment is limited, and contours are not shown.

Coverage is available for most unmapped areas of the United States, but most orthophotoquads are available only in advanced copy form. Currently available orthophotoquads are listed in an *Advance Materials Index*; each index covers one or more States.



Aircraft photos

You may order contact prints or enlargements of mapping photos made for USGS and other government agencies. The photos provide continuous coverage of map or administrative areas.

Most negatives are 9"x9" (22.86x22.86 cm). Orders are accepted for either stereoscopic (three dimensional) or pictorial (two dimensional) overlap. Enlargements can be made to an exact ratio or to a specific scale. All orders are custom processed.

For details, write or phone any NCIC office or the EROS Data Center. Request a *Geographic Computer Search Inquiry Form* and a current price list.

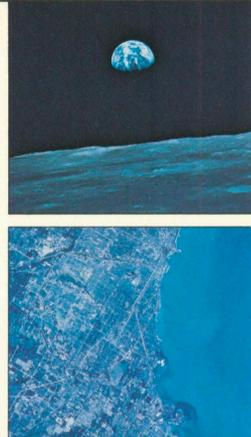


Aircraft photos (special)

You can order prints of NASA research photos in B&W, color, or color infrared. Coverage is limited, but it includes most major metropolitan areas of the United States. Some of the photos have filled the demand for "a photo of my home town."

Most of the photos provide high-altitude, small-scale coverage. Cloud cover is present in some photos, but most coverage clearly shows ground features such as roads, farms, and cities.

For details, write or phone any NCIC office or the EROS Data Center and request a *NASA Aircraft Photography Order Form* and a *Geographic Computer Search Inquiry Form*.



Manned spacecraft photos

Experimental photos from the Apollo, Gemini, and Skylab manned spacecraft programs can be ordered from the EROS Data Center.

Coverage of limited areas of the Earth was acquired by the Apollo and Gemini missions. Skylab coverage is available for limited test sites between 50°N and 50°S.

For details, write or phone any NCIC office or the EROS Data Center and request a booklet on *The EROS Data Center, a Manned Spacecraft Photography Order Form*, and a *Geographic Computer Search Inquiry Form*.

Landsat imagery

Landsat circles the Earth roughly 14 times each day. From an altitude of 920 km (570 miles), it provides repetitive coverage of the Earth's features.

For each scene, Landsat transmits B&W data for four spectral bands (green, red, and two bands in the near infrared). B&W images from all four bands can be ordered for each scene. Orders are also accepted for false-color composites of individual scenes.

For details, write or phone any NCIC office or the EROS Data Center and request a booklet on *The EROS Data Center, an Order Form for Landsat Standard Products*, a *Selected Coverage Order Form With Map*, and a *Geographic Computer Search Inquiry Form*.



Computer-enhanced Landsat scenes

All Landsat scenes received after February 1979 have been improved by radiometric and geometric corrections, edge and contrast enhancement, and haze removal. Improvement of earlier scenes is limited to stripe removal, edge enhancement, contrast stretch, and synthetic line generation.

False-color prints of these computer-enhanced scenes are offered on either Cibachrome or Kodak 2212.

For details, write or phone any NCIC office and request factsheets on the *EROS Digital Image Enhancement System* and the *EROS Digital Imagery Processing System*, a list of available computer-enhanced scenes, and a *Computer-Enhanced Landsat Products Order Form*.

Computer compatible tapes

Computer Compatible Tapes (CCTs) are used to digitally enhance individual Landsat scenes for use by researchers in agriculture, geology, hydrology, and other natural resource studies.

CCTs are available on standard 1/2"-wide (12.7 mm) magnetic tapes. They can be ordered in a 9-track format at 800 or 1600 bpi.

The number of CCTs required (one to four) for the digital data corresponding to one Landsat scene depends on the format requested.

For details, write or phone any NCIC office or the EROS Data Center and request the *Landsat Standard Products Order Form*.

35-mm slides

You can order 35-mm mounted slides of Landsat false-color composites and color/color-infrared Skylab and NASA photography over selected Major U.S. Metropolitan Areas, and other 35-mm slides that are available from the public affairs files.

Mounted 35-mm color duplicates are prepared from available printing masters.

Contact any NCIC office or the EROS Data Center. There is no specific form for ordering slides.

Major U.S. metropolitan areas

Preselected color and color-infrared photos are available for more than 100 U.S. major metropolitan areas.

The selection was made from NASA aircraft photos, Skylab photos, and Landsat imagery. Coverage of some metropolitan areas is not available in all three formats.



Color prints range in size from 9"x9" (22.86x22.86 cm) paper print of a NASA aircraft photo to 34.2"x34.2" (86.87x86.87 cm) paper print of a Skylab photo.

For details, write or phone any NCIC office or the EROS Data Center, and request a *Major U.S. Metropolitan Areas Order Form*.

Transformed prints

Twin low-oblique aerial photos have been made of a few selected areas of the United States. Uniform-scale B&W prints can be made from the twin low-oblique negatives by using a fixed transforming printer to remove scale distortions caused by the 20-degree camera tilt.

The transformed image is trapezoidal rather than square. Pairs of either twin low-oblique convergent or transverse transformed prints can be viewed stereoscopically.

For details, write or phone any NCIC office and request a leaflet on *Low-Oblique Photography*, an *Aerial Mapping Photography Order Form*, and a *Geographic Computer Search Inquiry Form*.

Diapositive plates or films

Diapositive plates or films are used in photogrammetric plotting instruments to obtain stereoscopic models for compiling maps of various scales and contour intervals.

They are produced from aerial photos as contact prints on glass plates 0.25" (0.635 cm) or 0.06" (0.152 cm) thick, or on diapositive film (.007").

For details and prices, write or phone any NCIC office and request an *Aerial Mapping Photography Order Form*.

Search and inquiry systems—Photoindexes

Photoindexes are available for almost all Geological Survey aerial mapping photos. The indexes show the assembly of prints in standard 7.5-minute, 15-minute, and 30-minute quadrangle units.

Some 50,000 photoindexes are currently available. The indexes enable you to select prints covering the area you are interested in. Individual aerial mapping photos are not geographically accessible and are not identified by the Aerial Photography Summary Record System (APRS).

For details, write or phone any NCIC office or the EROS Data Center. Photo indexes are free, in limited quantities.

Microfilm

You can order cassette microfilm copies of USGS Photoindexes; NASA aircraft photography; Apollo, Skylab, and Gemini photography; Landsat imagery; and other data stored at the EROS Data Center.

Cassettes of 16-mm microfilm are available in B&W and/or color. The more recent Landsat images are being filmed on 105-mm microfiche rather than on 16-mm rolls.

The cassettes can be used to set up an aerial and space imagery browse file or to acquire blocks of data for general research.

For details and prices, write or phone any NCIC office or the EROS Data Center.

Aerial Photography Summary Record System

The Aerial Photography Summary Record System is an NCIC-operated computer data bank. APSRS maintains four catalogs as well as page-size indexes (called State-base graphics) of U.S. airphoto holdings of major government agencies and of private mapping concerns.

Each catalog summarizes the coverage for a different 15-degree north-south strip of the United States; a microfiche set for each catalog provides data on airphoto projects within the strip. The strip catalogs are used for national projects. Each State-base graphic provides project data for a smaller area, usually one or two States.

For details, write or phone any NCIC office and request an *APRS Order Form*.

Micrographic indexes Search and inquiry systems

The indexes provide a low-cost, accurate source of information, and they enable you to make geographic searches on your own.

USGS, NASA, and manned spacecraft photos and Landsat images have been filmed on 105 x 148-mm (4.134"x5.827") microfiche. The microfiche shows the imagery date, frame number, scale, film type, and holding agency.

For details, write or phone any NCIC office or the EROS Data Center and request a *Micrographic Indexes Order Form*.

Geographic search and inquiry systems

You may request a computerized search to locate available aerial and space imagery of a specific area.

As a result of the search, you will receive a computer listing of available imagery and a decoding template for interpreting the computer printout.

For details, write or phone any NCIC office or the EROS Data Center and request a booklet on *The EROS Data Center and an Aerial Photography Inquiry Form* or a *Space Imagery Inquiry Form*, depending on the imagery you are interested in.

Geodetic control data

Descriptive lists. The results of USGS monumented control surveys are published and sold as tabulated lists. Each list covers a 15-minute quadrangle.

Control diagrams. Since 1959, USGS and the National Ocean Survey have published a series of geodetic control diagrams. The diagrams have a scale of 1:250,000 and span 1 degree of latitude and 2 degrees of longitude.

For details and prices, write or phone any Mapping Center NCIC office.

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U.S. Department of the Interior
Geological Survey
National Cartographic Information Center (NCIC)

Locations of NCIC offices

National headquarters
National Cartographic Information Center
U.S. Geological Survey
507 National Center
Reston, VA 22092
703-860-6045
FTS 928-6045

Mapping Center NCIC offices

★ **Eastern Mapping Center**
National Cartographic Information Center
U.S. Geological Survey
536 National Center
Reston, VA 22092
703-860-6336
FTS 928-6336

Mid-Century Mapping Center

National Cartographic Information Center
U.S. Geological Survey
1400 Independence Road
Rolla, MO 65401
314-341-0851, ext. 107
FTS 277-0851

National Cartographic Information Center
U.S. Geological Survey
National Space Technology Laboratories
Building 1100
NSTL Station, MS 39529
601-688-3544
FTS 494-3541

EROS Data Center

U.S. Geological Survey
Sioux Falls, SD 57198
605-594-6511, ext. 507
FTS 784-7151

Rocky Mountain Mapping Center

National Cartographic Information Center
U.S. Geological Survey
Box 25046, Stop 504-Federal Center
Denver, CO 80225
303-234-2326
FTS 234-2326

Western Mapping Center

National Cartographic Information Center
U.S. Geological Survey
345 Middlefield Road
Menlo Park, CA 94025
415-323-8111, ext. 2427
FTS 267-2427

State Affiliate NCICs

NCIC has established affiliated offices with many State governments. For the nearest one, ask your Mapping Center NCIC office.

