

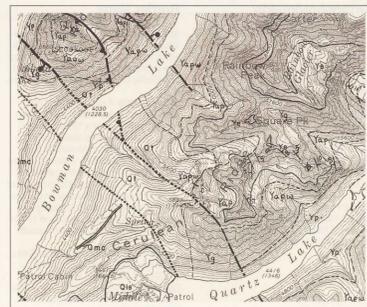
Geologic Maps

The USGS makes many kinds of geologic maps as a part of a continuing program to fulfill one of its missions: to examine the geological structure, mineral resources, and products of the national domain.

These maps may be published singly or as a sheet in one of several series.

Some maps are published as folded sheets in envelopes bound with USGS book reports such as professional papers, bulletins, and water-supply papers. The texts of these reports contain descriptive and interpretive matter that supplements the information on geologic maps.

USGS geologic maps range in scale from 1:20,000 to 1:2,500,000, depending on the type of information to be shown and the purpose of the map.



Geologic quadrangle maps

The USGS has more than 1,500 multicolor geologic maps in the GQ Series. These maps show the bedrock, surficial, or engineering geology of selected quadrangles in the United States. The series, begun in 1949, is a continuation of the earlier Folios of the Geologic Atlas of the United States (1894 to 1945).

The maps are accompanied by brief texts, printed either on the map margins or as a separate booklet accompanying the map. Some of the maps are accompanied by charts showing geologic structure or columnar sections relating to the map sheet; some maps show structure contours.

Sheet size and projection vary, depending on the base map used. The most common scale is 1:24,000; some are at a scale of 1:62,500; a few are at other scales, ranging from 1:20,000 to 1:125,000. Each map is folded and placed in an open-top paper jacket.

Above: Part of "Geologic Map of the Kajay Quadrangle and Part of the Fork Ridge Quadrangle, Bell and Knox Counties, Kentucky," 1978, GQ-1505, USGS in cooperation with the Commonwealth of Kentucky, the University of Kentucky, and the Kentucky Geological Survey, 1:24,000, Universal Transverse Mercator projection, 33 1/2 x 32 1/2 inches.

Mineral investigations resource maps

These multicolor maps (MR Series) are mineral distribution and classification maps.

The maps show geographic distribution and grade of metallic and non-metallic minerals. They are plotted on topographic and planimetric bases at a variety of scales. Scales range from 1:250,000 to 1:5,000,000.

Each map is accompanied by a brief text on the map margin or in a booklet. The texts include a general description of the geologic occurrences of the mineral commodities, a locality index, and a bibliography. A few maps require more than one sheet.

Oil and gas investigations maps and charts

These maps (OM Series) and charts (OC Series) show the subsurface stratigraphy and surface geology of selected oil and gas fields and of other areas having hydrocarbon potential.

Some of the maps and charts have brief texts printed in the margin or in a separate booklet. A few maps and charts have more than one sheet.

Maps. Each map is plotted on a topographic or planimetric base. In addition to showing the area of certain oil and gas fields, the maps show surface geology and subsurface stratigraphy and geologic structure. Maps Nos. 1 to 109 in the series are designated as preliminary; those from No. 110 onward carry the prefix OM.

Charts. The charts show subsurface stratigraphic information for certain oil and gas fields and of other areas of hydrocarbon potential. Charts Nos. 1 to 39 in the series are considered preliminary; those from No. 40 onward carry the prefix OC.

Sheet sizes and projections vary. Each map or chart is folded and placed in an open-top paper jacket.

Above: Part of "Geologic Map of Part of Eastern San Juan Basin, Rio Arriba County, New Mexico," 1949, reprinted 1957, Preliminary Map 78, 1:63,300, 53 1/4 x 43 1/2 inches.

Coal investigations maps

The maps are plotted on topographic or planimetric bases at a variety of scales. Sheet size and projection vary. Each map is folded and placed in an open-top paper jacket.

Left: Part of "Geologic Map and Lignite Deposits of the New Salem Quadrangle, Morton County, North Dakota," 1973, C-42, 1:24,000, Universal Transverse Mercator projection, 34 x 28 inches.

The numbering of these maps began in 1950; a few unpublished maps were produced as early as 1935.

USGS maps that portray the geology of regions or local areas are available for nearly 50 percent of the country.

The USGS also prepares a wide range of special geologic maps for specific purposes. For example, maps are prepared, generally at a scale of 1:7,500,000, for studying environmental problems, for making decisions on land use, and for mineral and energy resource assessment on a national scale.

USGS geologic map indexes are a State-by-State summary of published geologic maps by Federal, State, academic, professional, and other organizations.

Some maps are accompanied by a brief text on the map margin or in a separate booklet.

In recent years, MF Series maps have been folded and placed in an open-top paper jacket.

Above: Part of "Preliminary Geologic Map and Cross Sections of the Northwest Part of Glacier National Park, Montana," 1983, MF-164-A, 1:100,000, 34 x 39 inches.

Pre-1971 maps show geology related to specific mining or minerals deposit studies. Post-1971 maps cover subjects related to environmental studies or wilderness areas mineral investigations; they are printed in black and white.

Each map covers a quadrangle or an irregularly shaped area and is plotted on a topographic or planimetric base.

Each map covers a quadrangle or an irregularly shaped area and is plotted on a topographic or planimetric base.

Each map covers a quadrangle or an irregularly shaped area and is plotted on a topographic or planimetric base.

Each map covers a quadrangle or an irregularly shaped area and is plotted on a topographic or planimetric base.

Each map covers a quadrangle or an irregularly shaped area and is plotted on a topographic or planimetric base.

Each map covers a quadrangle or an irregularly shaped area and is plotted on a topographic or planimetric base.

Each map covers a quadrangle or an irregularly shaped area and is plotted on a topographic or planimetric base.

Each map covers a quadrangle or an irregularly shaped area and is plotted on a topographic or planimetric base.

Each map covers a quadrangle or an irregularly shaped area and is plotted on a topographic or planimetric base.

Each map covers a quadrangle or an irregularly shaped area and is plotted on a topographic or planimetric base.

Each map covers a quadrangle or an irregularly shaped area and is plotted on a topographic or planimetric base.

Each map covers a quadrangle or an irregularly shaped area and is plotted on a topographic or planimetric base.

Each map covers a quadrangle or an irregularly shaped area and is plotted on a topographic or planimetric base.

Each map covers a quadrangle or an irregularly shaped area and is plotted on a topographic or planimetric base.

Each map covers a quadrangle or an irregularly shaped area and is plotted on a topographic or planimetric base.

Each map covers a quadrangle or an irregularly shaped area and is plotted on a topographic or planimetric base.

Each map covers a quadrangle or an irregularly shaped area and is plotted on a topographic or planimetric base.

Each map covers a quadrangle or an irregularly shaped area and is plotted on a topographic or planimetric base.

Each map covers a quadrangle or an irregularly shaped area and is plotted on a topographic or planimetric base.

Each map covers a quadrangle or an irregularly shaped area and is plotted on a topographic or planimetric base.

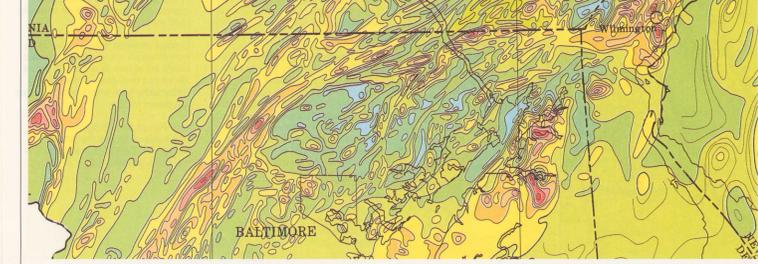
Each map covers a quadrangle or an irregularly shaped area and is plotted on a topographic or planimetric base.

Each map covers a quadrangle or an irregularly shaped area and is plotted on a topographic or planimetric base.

Each map covers a quadrangle or an irregularly shaped area and is plotted on a topographic or planimetric base.

Each map covers a quadrangle or an irregularly shaped area and is plotted on a topographic or planimetric base.

Each map covers a quadrangle or an irregularly shaped area and is plotted on a topographic or planimetric base.



Geophysical investigations maps

These maps (GP Series) are multicolor or black-and-white maps that show results of surveys to measure geomagnetism, gravity, and radioactivity of selected areas of the country. Such properties reflect subsurface geologic structures that may be of economic or scientific significance.

The series was begun in 1946; the maps cover both quadrangle and irregularly shaped areas. The maps are plotted on planimetric bases at a variety of scales.

Some of the maps are printed on translucent paper so they can be used as overlays to standard geologic maps.

Scales, sheet sizes, and projections vary. Each map is folded and placed in an open-top paper jacket.

Some of the maps are printed on translucent paper so they can be used as overlays to standard geologic maps.

Scales, sheet sizes, and projections vary. Each map is folded and placed in an open-top paper jacket.

Some of the maps are printed on translucent paper so they can be used as overlays to standard geologic maps.

Scales, sheet sizes, and projections vary. Each map is folded and placed in an open-top paper jacket.

Some of the maps are printed on translucent paper so they can be used as overlays to standard geologic maps.

Scales, sheet sizes, and projections vary. Each map is folded and placed in an open-top paper jacket.

Some of the maps are printed on translucent paper so they can be used as overlays to standard geologic maps.

Scales, sheet sizes, and projections vary. Each map is folded and placed in an open-top paper jacket.

Some of the maps are printed on translucent paper so they can be used as overlays to standard geologic maps.

Scales, sheet sizes, and projections vary. Each map is folded and placed in an open-top paper jacket.

Some of the maps are printed on translucent paper so they can be used as overlays to standard geologic maps.

Scales, sheet sizes, and projections vary. Each map is folded and placed in an open-top paper jacket.

Some of the maps are printed on translucent paper so they can be used as overlays to standard geologic maps.

Scales, sheet sizes, and projections vary. Each map is folded and placed in an open-top paper jacket.

Some of the maps are printed on translucent paper so they can be used as overlays to standard geologic maps.

Scales, sheet sizes, and projections vary. Each map is folded and placed in an open-top paper jacket.

Some of the maps are printed on translucent paper so they can be used as overlays to standard geologic maps.

Scales, sheet sizes, and projections vary. Each map is folded and placed in an open-top paper jacket.

Some of the maps are printed on translucent paper so they can be used as overlays to standard geologic maps.

Scales, sheet sizes, and projections vary. Each map is folded and placed in an open-top paper jacket.

Some of the maps are printed on translucent paper so they can be used as overlays to standard geologic maps.

Scales, sheet sizes, and projections vary. Each map is folded and placed in an open-top paper jacket.

Some of the maps are printed on translucent paper so they can be used as overlays to standard geologic maps.

The subject matter of the maps is usually shown by lines of equal intensity of the property (such as gravity or geomagnetism) being measured.

The series was begun in 1946; the maps cover both quadrangle and irregularly shaped areas. The maps are plotted on planimetric bases at a variety of scales.

Some of the maps are printed on translucent paper so they can be used as overlays to standard geologic maps.

Scales, sheet sizes, and projections vary. Each map is folded and placed in an open-top paper jacket.

Some of the maps are printed on translucent paper so they can be used as overlays to standard geologic maps.

Scales, sheet sizes, and projections vary. Each map is folded and placed in an open-top paper jacket.

Some of the maps are printed on translucent paper so they can be used as overlays to standard geologic maps.

Scales, sheet sizes, and projections vary. Each map is folded and placed in an open-top paper jacket.

Some of the maps are printed on translucent paper so they can be used as overlays to standard geologic maps.

Scales, sheet sizes, and projections vary. Each map is folded and placed in an open-top paper jacket.

Some of the maps are printed on translucent paper so they can be used as overlays to standard geologic maps.

Scales, sheet sizes, and projections vary. Each map is folded and placed in an open-top paper jacket.

Some of the maps are printed on translucent paper so they can be used as overlays to standard geologic maps.

Scales, sheet sizes, and projections vary. Each map is folded and placed in an open-top paper jacket.

Some of the maps are printed on translucent paper so they can be used as overlays to standard geologic maps.

Scales, sheet sizes, and projections vary. Each map is folded and placed in an open-top paper jacket.

Some of the maps are printed on translucent paper so they can be used as overlays to standard geologic maps.

Scales, sheet sizes, and projections vary. Each map is folded and placed in an open-top paper jacket.

Some of the maps are printed on translucent paper so they can be used as overlays to standard geologic maps.

Scales, sheet sizes, and projections vary. Each map is folded and placed in an open-top paper jacket.

Some of the maps are printed on translucent paper so they can be used as overlays to standard geologic maps.

Scales, sheet sizes, and projections vary. Each map is folded and placed in an open-top paper jacket.

Some of the maps are printed on translucent paper so they can be used as overlays to standard geologic maps.

Scales, sheet sizes, and projections vary. Each map is folded and placed in an open-top paper jacket.

Some of the maps are printed on translucent paper so they can be used as overlays to standard geologic maps.

Scales, sheet sizes, and projections vary. Each map is folded and placed in an open-top paper jacket.

Some of the maps are printed on translucent paper so they can be used as overlays to standard geologic maps.

Scales, sheet sizes, and projections vary. Each map is folded and placed in an open-top paper jacket.

Some of the maps are printed on translucent paper so they can be used as overlays to standard geologic maps.

Scales, sheet sizes, and projections vary. Each map is folded and placed in an open-top paper jacket.

Some of the maps are printed on translucent paper so they can be used as overlays to standard geologic maps.

Scales, sheet sizes, and projections vary. Each map is folded and placed in an open-top paper jacket.

Some of the maps are printed on translucent paper so they can be used as overlays to standard geologic maps.

Some of the maps are printed on translucent paper so they can be used as overlays to standard geologic maps.

Scales, sheet sizes, and projections vary. Each map is folded and placed in an open-top paper jacket.

Some of the maps are printed on translucent paper so they can be used as overlays to standard geologic maps.

Scales, sheet sizes, and projections vary. Each map is folded and placed in an open-top paper jacket.

Some of the maps are printed on translucent paper so they can be used as overlays to standard geologic maps.

Scales, sheet sizes, and projections vary. Each map is folded and placed in an open-top paper jacket.

Some of the maps are printed on translucent paper so they can be used as overlays to standard geologic maps.

Scales, sheet sizes, and projections vary. Each map is folded and placed in an open-top paper jacket.

Some of the maps are printed on translucent paper so they can be used as overlays to standard geologic maps.

Scales, sheet sizes, and projections vary. Each map is folded and placed in an open-top paper jacket.

Some of the maps are printed on translucent paper so they can be used as overlays to standard geologic maps.

Scales, sheet sizes, and projections vary. Each map is folded and placed in an open-top paper jacket.

Some of the maps are printed on translucent paper so they can be used as overlays to standard geologic maps.

Scales, sheet sizes, and projections vary. Each map is folded and placed in an open-top paper jacket.

Some of the maps are printed on translucent paper so they can be used as overlays to standard geologic maps.

Scales, sheet sizes, and projections vary. Each map is folded and placed in an open-top paper jacket.

Some of the maps are printed on translucent paper so they can be used as overlays to standard geologic maps.

Scales, sheet sizes, and projections vary. Each map is folded and placed in an open-top paper jacket.

Some of the maps are printed on translucent paper so they can be used as overlays to standard geologic maps.

Scales, sheet sizes, and projections vary. Each map is folded and placed in an open-top paper jacket.

Some of the maps are printed on translucent paper so they can be used as overlays to standard geologic maps.

Scales, sheet sizes, and projections vary. Each map is folded and placed in an open-top paper jacket.

Some of the maps are printed on translucent paper so they can be used as overlays to standard geologic maps.

Scales, sheet sizes, and projections vary. Each map is folded and placed in an open-top paper jacket.

Some of the maps are printed on translucent paper so they can be used as overlays to standard geologic maps.

Scales, sheet sizes, and projections vary. Each map is folded and placed in an open-top paper jacket.

Some of the maps are printed on translucent paper so they can be used as overlays to standard geologic maps.

Scales, sheet sizes, and projections vary. Each map is folded and placed in an open-top paper jacket.

Some of the maps are printed on translucent paper so they can be used as overlays to standard geologic maps.

Scales, sheet sizes, and projections vary. Each map is folded and placed in an open-top paper jacket.

Some of the maps are printed on translucent paper so they can be used as overlays to standard geologic maps.

Scales, sheet sizes, and projections vary. Each map is folded and placed in an open-top paper jacket.

Some of the maps are printed on translucent paper so they can be used as overlays to standard geologic maps.

Above: Part of "Aeromagnetic Map of Delaware, Maryland, Pennsylvania, West Virginia, and Part of New Jersey and New York," 1980, GP-927, 1:1,000,000, Lambert conformal conic projection, 35 1/2 x 26 1/2 inches.

Some of the maps are printed on translucent paper so they can be used as overlays to standard geologic maps.

Scales, sheet sizes, and projections vary. Each map is folded and placed in an open-top paper jacket.

Some of the maps are printed on translucent paper so they can be used as overlays to standard geologic maps.

Scales, sheet sizes, and projections vary. Each map is folded and placed in an open-top paper jacket.

Some of the maps are printed on translucent paper so they can be used as overlays to standard geologic maps.

Scales, sheet sizes, and projections vary. Each map is folded and placed in an open-top paper jacket.

Some of the maps are printed on translucent paper so they can be used as overlays to standard geologic maps.

Scales, sheet sizes, and projections vary. Each map is folded and placed in an open-top paper jacket.

Some of the maps are printed on translucent paper so they can be used as overlays to standard geologic maps.

Scales, sheet sizes, and projections vary. Each map is folded and placed in an open-top paper jacket.

Some of the maps are printed on translucent paper so they can be used as overlays to standard geologic maps.

Scales, sheet sizes, and projections vary. Each map is folded and placed in an open-top paper jacket.

Some of the maps are printed on translucent paper so they can be used as overlays to standard geologic maps.

Scales, sheet sizes, and projections vary. Each map is folded and placed in an open-top paper jacket.

Some of the maps are printed on translucent paper so they can be used as overlays to standard geologic maps.

Scales, sheet sizes, and projections vary. Each map is folded and placed in an open-top paper jacket.

Some of the maps are printed on translucent paper so they can be used as overlays to standard geologic maps.

Scales, sheet sizes, and projections vary. Each map is folded and placed in an open-top paper jacket.

Some of the maps are printed on translucent paper so they can be used as overlays to standard geologic maps.

Scales, sheet sizes, and projections vary. Each map is folded and placed in an open-top paper jacket.

Some of the maps are printed on translucent paper so they can be used as overlays to standard geologic maps.

Scales, sheet sizes, and projections vary. Each map is folded and placed in an open-top paper jacket.

Some of the maps are printed on translucent paper so they can be used as overlays to standard geologic maps.

Scales, sheet sizes, and projections vary. Each map is folded and placed in an open-top paper jacket.

Some of the maps are printed on translucent paper so they can be used as overlays to standard geologic maps.

Scales, sheet sizes, and projections vary. Each map is folded and placed in an open-top paper jacket.

Some of the maps are printed on translucent paper so they can be used as overlays to standard geologic maps.

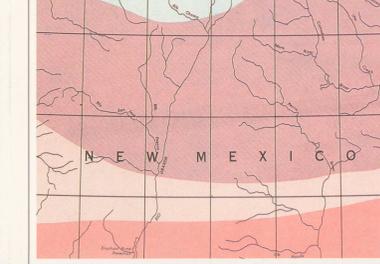
Scales, sheet sizes, and projections vary. Each map is folded and placed in an open-top paper jacket.

Some of the maps are printed on translucent paper so they can be used as overlays to standard geologic maps.

Scales, sheet sizes, and projections vary. Each map is folded and placed in an open-top paper jacket.

Some of the maps are printed on translucent paper so they can be used as overlays to standard geologic maps.

Some of the maps are printed on translucent paper so they can be used as overlays to standard geologic maps.



Miscellaneous investigations series maps

These multicolor maps (I Series) cover a wide variety of geologic and hydrologic topics.

They cover both quadrangle and irregularly shaped areas and are plotted on topographic or planimetric bases at a variety of scales and in a variety of formats. The formats include standard geologic quadrangle (GQ) maps, 7.5-minute photogeologic maps on planimetric bases, maps used in hydrogeologic and marine geology and resource studies, and maps of the planets and moons in the solar system.

Most of the maps have brief explanatory texts printed on the map margin or in a separate booklet. A few have more than one sheet.

Sheet sizes and projections vary. Scales vary widely. Each map is folded and placed in an open-top paper jacket.

Left: Part of "Quaternary Geologic Map of the Minneapolis 4 x 6 (degree) Quadrangle, United States," 1981, I-1420 (NL-15), 1:1,000,000, Modified polyconic projection, 46 1/2 x 30 inches.

Some of the maps are printed on translucent paper so they can be used as overlays to standard geologic maps.

Scales, sheet sizes, and projections vary. Each map is folded and placed in an open-top paper jacket.

Some of the maps are printed on translucent paper so they can be used as overlays to standard geologic maps.

Scales, sheet sizes, and projections vary. Each map is folded and placed in an open-top paper jacket.

Some of the maps are printed on translucent paper so they can be used as overlays to standard geologic maps.

Scales, sheet sizes, and projections vary. Each map is folded and placed in an open-top paper jacket.

Some of the maps are printed on translucent paper so they can be used as overlays to standard geologic maps.

Scales, sheet sizes, and projections vary. Each map is folded and placed in an open-top paper jacket.

Some of the maps are printed on translucent paper so they can be used as overlays to standard geologic maps.

Scales, sheet sizes, and projections vary. Each map is folded and placed in an open-top paper jacket.

Some of the maps are printed on translucent paper so they can be used as overlays to standard geologic maps.

Scales, sheet sizes, and projections vary. Each map is folded and placed in an open-top paper jacket.

Some of the maps are printed on translucent paper so they can be used as overlays to standard geologic maps.

Scales, sheet sizes, and projections vary. Each map is folded and placed in an open-top paper jacket.

Some of the maps are printed on translucent paper so they can be used as overlays to standard geologic maps.

Scales, sheet sizes, and projections vary. Each map is folded and placed in an open