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BOOKS

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Professional papers include reports on the results of resource studies, and of topographic, hydrologic, paleontologic, and geologic investigations, that are of large size or have illustrations or tables requiring a large page size; they include also longer contributions to the literature on scientific and engineering subjects.


P 0492. Thermal springs of the United States and other countries of the world; a summary, by G. A. Waring. 1965. 383 p. (Reprint.) (Revised by R. R. Blankenship and Ray Bental.)

P 0498-D. Chemical properties of ground water and their corrosion and encrustation effects on wells, by Ivan Barnes, and F. E. Clarke. 1969. p. D1-D58. (Reprint.) (Hydrology of aquifer systems.)

P 0722. CALIFORNIA. Gold-bearing gravel of the ancestral Yuba River, Sierra Nevada, California, by W. E. Yeend. 1974. 44 p; 2 plates in pocket. (Reprint.)


P 0835. ALASKA. Quaternary geology of Alaska, by T. L. Pévé. 1975. 145 p; 1 plate and 2 tables in pocket. (Reprint.)

P 0890. HAWAII. The August and October 1968 east rift eruptions of Kilauea Volcano, Hawaii, by D. B. Jackson, D. A. Swanson, R. Y. Koyanagi, and T. L. Wright. 1975. 33 p. (Reprint.)


P 0999. MONTANA. Stillwater Complex, Montana; rock succession, metamorphism and structure of the complex and adjacent rocks, by N. J. Page. 1977. 79 p.; 2 plates in pocket. (Reprint.)


P 1028. SOUTH CAROLINA. Studies related to the Charleston, South Carolina, earthquake of 1886; a preliminary report, edited by D. W. Rankin. 1977. 204 p. (Reprint.)

A. SOUTH CAROLINA. Studies related to the Charleston, South Carolina, earthquake of 1886; introduction and discussion, by D. W. Rankin. p. 1-15

B. SOUTH CAROLINA. Reinterpretation of the intensity data for the 1886 Charleston, South Carolina, earthquake, by G. A. Bollinger. p. 17-32

C. SOUTH CAROLINA. The seismicity of South Carolina prior to 1886, by G. A. Bollinger, and T. R. Visvanathan. p. 33-42

D. SOUTH CAROLINA. Recent seismicity near Charleston, South Carolina, and its relationship to the August 31, 1886, earthquake, by A. C. Tarr. p. 43-57

E. SOUTH CAROLINA. Lithostratigraphy of the deep corehole (Clubhouse Crossroads corehole 1) near Charleston, South Carolina, by G. S. Gohn, B. B. Higgins, C. C. Smith, and J. P. Owens. p. 59-70


G. SOUTH CAROLINA. Geochemistry of subsurface basalt from the deep corehole (Clubhouse Crossroads corehole 1) near Charleston, South Carolina; magma type and tectonic implications, by David Gottfried, C. S. Annell, and L. J. Schwarz. p. 91-113

H. SOUTH CAROLINA. Heat flow from a corehole near Charleston, South Carolina, by J. H. Sass, and J. P. Zigaos. p. 115-117

I. SOUTH CAROLINA, GEORGIA. The nature of the geophysical basement beneath the coastal plain of South Carolina and northeastern Georgia, by Peter Popekon, and Isidore Zietz. p. 119-137

J. SOUTH CAROLINA. Magnetic basement near Charleston, South Carolina; a preliminary report, by J. D. Phillips. p. 139-149

K. SOUTH CAROLINA. Bouguer gravity map of the Summerville-Charleston, South Carolina, epicentral zone and tectonic implications, by L. T. Long, and J. W. Champion, Jr. p. 151-166

L. SOUTH CAROLINA. Exploring the Charleston, South Carolina, earthquake area with seismic refraction; a preliminary study, by H. D. Ackermann. p. 167-175

M. SOUTH CAROLINA. A preliminary shallow crustal model between Columbia and Charleston, South Carolina, determined from quarry blast monitoring and other geophysical data, by Pradeep Talwani. p. 177-187

N. SOUTH CAROLINA. Electric and electromagnetic soundings near Charleston, South Carolina; a preliminary report, by D. L. Campbell. p. 189-198

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P 1031. IDAHO, MONTANA. Medicine Lodge thrust system, east-central Idaho and Southwest Montana, by E. T. Ruppel. 1977. 204 p. (Reprint.)


P 1049-D. WYOMING. Geology and description of thorium and rare-earth deposits in the southern Bear Lodge Mountains, northeastern Wyoming, by M. H. Staatz. 1983. p. D1-D52; 2 plates in pocket. (Geology and resources of thorium in the United States.)

P 1066-N. Middle and Late Ordovician solitary rugose corals of the Cincinnati Arch region, by R. J. Elias. 1983. p. N1-N13; 2 plates. (Contributions to the Ordovician paleontology of Kentucky and nearby States.)

P 1067-F. Postdepositional alteration of surface and near-surface minerals in selected coastal plain formations of the Middle Atlantic States, by J. P. Owens, M. M. Hess, C. S. Denny, and E. J. Dwormik. 1983. p. F1-F45. (Surface and shallow subsurface geologic studies in the emerged coastal plain of the Middle Atlantic States.)


P 1170-D. CALIFORNIA. Merced Peak Quadrangle, central Sierra Nevada, California; analytic data, by D. L. Peck, and G. K. Van Kooten. 1983. 29 p. (Shorter contributions to general geology.)

P 1170-C. CALIFORNIA. Paleogene benthic foraminiferal biostratigraphy and paleobathymetry of the central Coast Ranges of California, by W. A. Berggren, and Jane Aubert. p. 4-21


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D. MISSOURI, TENNESSEE. Microearthquakes and faulting in the area of New Madrid, Missouri-Reelfoot Lake, Tennessee, by Daniel O'Connell, C. G. Bufe, and M. D. Zoback. p. 31-38

E. Magnetic basement in the upper Mississippi Embayment region; a preliminary report, by T. G. Hildenbrand, M. F. Kane, and J. D. Hendricks. p. 39-53

F. Tectonic features of the New Madrid seismic zone from seismic-reflection profiles, by R. M. Hamilton, and M. D. Zoback. p. 55-82


H. MISSOURI, TENNESSEE. Style and significance of surface deformation in the vicinity of New Madrid, Missouri, by D. P. Russ. p. 95-114

I. Configuration and deformation of the Paleozoic bedrock surface in the New Madrid seismic zone, by A. J. Crone, and S. R. Brockman. p. 115-135

J. TENNESSEE. High-resolution seismic-reflection surveying on Reelfoot scarp, northwestern Tennessee, by J. L. Sexton, E. P. Frey, and Dave Malicki. p. 137-149

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P 1239. CALIFORNIA. Tectonic setting of late Miocene, Pliocene, and Pleistocene rocks in part of the Coast Ranges north of San Francisco, California, by K. F. Fox, Jr. 1983. 33 p.; 1 plate in pocket.


A. Molluscan fossil record from the northeastern part of the Upper Cretaceous seaway, Western Interior, by W. A. Cobban. p. 1-25

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Strong-motion data recorded in Mexico during the main shock, by J. N. Brune, F. L. Vernon, III, and R. S. Simons. p. 319-349

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CALIFORNIA. An analysis of strong-motion data from a severely damaged structure; the Imperial County Services Building, El Centro, California, by Christopher Rojahn, and P. N. Mork. p. 357-375

CALIFORNIA. Main-shock strong-motion records from the Meloland Road-Interstate Highway 8 overcrossing, by Christopher Rojahn, J. T. Ragsdale, J. D. Raggett, and J. H. Gates. p. 377-383


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CALIFORNIA. Peak horizontal ground motions from the main shock; comparison with data from previous earthquakes, by D. M. Boore, and R. L. Porcella. p. 439-441


P 1258-C. ALASKA. Calving speed of Alaska tidewater glaciers, with application to Columbia Glacier, by C. S. Brown, M. F. Meier, and Austin Post. 1982. p. CI-C13; 4 plates in pocket. (A study of 15 iceberg-calving glaciers in Alaska establishes a relation between calving speed and water depth at the terminus)


P 1273-C. MONTANA, WYOMING. Relationship of porosity and permeability to petrology of the Madison Limestone in rock cores from three test wells in Montana and Wyoming, by P. A. Thayer. 1983. p. CI-C29; 3 plates and 1 table in pocket. (Geology and hydrology of the Madison Limestone and associated rocks in parts of Montana, Nebraska, North Dakota, South Dakota, and Wyoming.)


P 1313. SOUTH CAROLINA. Studies related to the Charleston, South Carolina, earthquake of 1886; tectonics and seismicity, edited by G. S. Gohn. 1983. 8 plates in pocket.

A. SOUTH CAROLINA. Geochemistry and tectonic significance of subsurface basalts near Charleston, South Carolina; Clubhouse Crossroads test holes #2 and #3, by David Gottfried, C. S. Annell, and G. R. Byerly. p. A1-A19

B. SOUTH CAROLINA. 40Ar/39Ar ages of basalt from Clubhouse Crossroads test hole #2 near Charleston, South Carolina, by M. A. Lanphere. p. B1-B8


D. SOUTH CAROLINA. Geology of the lower Mesozoic (?) sedimentary rocks in Clubhouse Crossroads test hole #3, near Charleston, South Carolina, by G. S. Gohn, B. B. Houser, and R. R. Schneider. p. D1-D17

E. SOUTH CAROLINA. Geology of the basement rocks near Charleston, South Carolina; data from detrital rock fragments in lower Mesozoic (?) rocks in Clubhouse Crossroads test hole #3, by G. S. Gohn. p. E1-E22

F. SOUTH CAROLINA. Seismic-refraction study in the area of the Charleston, South Carolina, 1886 earthquake, by H. D. Ackermann. p. F1-F20


K. Distribution of subsurface lower Mesozoic rocks in the Southeastern United States, as interpreted from regional aeromagnetic and gravity maps, by D. L. Daniels, Isidore Zietz, and Peter Popeneo. p. K1-K24

L. GEORGIA. Pre-Cretaceous rocks beneath the Georgia Coastal Plain; regional implications, by T. M. Chowns, and C. T. Williams. p. L1-L42

M. GEORGIA. Potassium-argon relations in diabase dikes of Georgia; the influence of excess 40Ar on the geochronology of early Mesozoic igneous and tectonic events, by R. E. Dooley, and J. M. Wampler. p. M1-M24

N. SOUTH CAROLINA. Mesozoic development and structure of the continental margin off South Carolina, by W. P. Dillon, K. D. Kiltgord, and C. K. Paull. p. N1-N16

O. SOUTH CAROLINA. Basement structure indicated by seismic-refraction measurements offshore from South Carolina and adjacent areas, by W. P. Dillon, and L. D. McGinnis. p. O1-O7

PROFESSIONAL PAPERS


S. Regenerated faults of small Cenozoic offset; probable earthquake sources in the Southeastern United States, by C. M. Wentworth, and Marcia Mergner-Keefer. p. S1-S20

T. SOUTH CAROLINA. Speculations on the nature of seismicity at Charleston, South Carolina, by G. A. Bollinger. p. T1-T11

BULLETINS

Bulletins include either final or progress reports on the results of resource studies and of topographic and geologic investigations; shorter contributions to economic and general geology; and descriptions of Survey instruments and techniques. Among other kinds of reports included in the bulletin series are bibliographies, geophysical abstracts, and contributions to geochemistry.


B 1291. The geologic story of the Uinta Mountains, by W. R. Hansen. 1969. 144 p. (Reprint.)


B 1510. VIRGINIA, WEST VIRGINIA. Mineral resources of the Mill Creek, Mountain Lake, and Peters Mountain Wilderness Study Areas, Craig and Giles counties, Virginia, and Monroe County, West Virginia, by F. G. Leslie, U.S. Geological Survey. 1982. 76 p; 6 plates in pocket. (Studies related to wilderness-study areas.) (Supercedes Open-file report 76-1076).


B 1529-D. CALIFORNIA. The Kern River Formation, southwestern San Joaquin Valley, California, by J. A. Bartow, and G. M. Pittman. 1983. p. D1-D17; 1 plate in pocket. (Contributions to stratigraphy.)


NEW YORK. Adoption of the name Hutchinson River Group and its subdivisions in Bronx and Westchester counties, southeastern New York, by C. A. Baskerville. p. H1-H10


Revision of the Hatchetigbee and Bashi formations (lower Eocene) in the eastern Gulf Coastal Plain, by T. G. Gibson. p. H33-H41


MASSACHUSETTS. Stratigraphic names in eastern Massachusetts and adjacent states, by Richard Goldsmith, D. R. Wones, and A. F. Shride. p. H57-H72


NEW YORK. Adoption of names of certain members of formations in the Hamilton Group (Middle Devonian) of New York, by W. A. Oliver, Jr. p. H91-H93


SOUTH CAROLINA. Chandler Bridge Formation; a new Oligocene stratigraphic unit in the lower coastal plain of South Carolina, by A. E. Sanders, R. E. Weems, and E. M. Lemon, Jr. p. H105-H124

WYOMING, MONTANA. New members of the Madison Limestone (Devonian and Mississippian), north-central Wyoming and southern Montana, by W. J. Sando. p. H125-H130

VIRGINIA, NEW YORK. Huntersville Chert (Devonian) extending from southwestern Virginia into southwestern New York, and its Bobs Ridge Sandstone Member, by E. G. Weed. p. H131-H133

VIRGINIA, NEW YORK. Nealmont Limestone (Middle Ordovician) extending from southwestern Virginia into southwestern New York in the Central Appalachians, by E. G. Weed. p. H135-H136

SOUTH CAROLINA. Recognition and formalization of the Pliocene "Goose Creek phase" in the Charleston, South Carolina, area, by R. E. Weems, E. M. Lemon, Jr., Lucy McCartan, L. M. Bybell, and A. E. Sanders. p. H137-H148


B 1547. The classical chemical analysis of silicate rocks; the old and the new, by Herbert Kirschenbaum. 1983. 55 p. (Supersedes Open-file report 81-0359.)


WATER-SUPPLY PAPERS

Water-supply papers include reports on the geology, hydrology, quality, recoverability, and utilization of water resources. They include also several series of statistical reports on streamflow, floods, ground-water levels, and water quality.

W 0494. Outline of ground-water hydrology, with definitions, by O. E. Meinzer. 1923. 71 p. (Reprint.)

CIRCULARS

Circulars provide an outlet for reports for which a simpler and less permanent format is deemed adequate. They are intended to be as sound scientifically and as accurate as the reports published in the formal series; but in general the treatment of their subjects is less comprehensive and final; and the necessary illustrations are fewer and less complex and generally published in black and white; only in exceptional cases may simple multicolor illustrations be used. Reports may be issued as circulars if they are of relatively local or restricted interest, or if they are of relatively temporary usefulness.

C 0793. ALASKA. The Alaskan mineral resource assessment reports if they are of relatively local or restricted interest, or if they are of generally published in black and white; only in exceptional cases may simple multicolor illustrations be used. Reports may be issued as circulars but in general the treatment of their subjects is less comprehensive and less permanent format is deemed adequate. They are intended to be as sound logic and mineral resource maps of the Ambler River Quadrangle, Alaska, by C. F. Mayfield, I. L. Tailleur, N. R. Albert, Inyo Ellersieck, Donald Grybeck, and S. W. Hackett. 1983. 31 p.

Effect of sea-level fluctuations on porosity and mineralogenic changes in coastal aquifers, by William Back, and B. B. Hanshaw. p. 6-7
Pliocene and Pleistocene calcitic veins as indicators of paleohydrologic, paleoclimatologic, and neotectonic events, southern Great Basin; an initial appraisal, by I. J. Winograd, B. J. Szabo, T. B. Coplen, and G. C. Doty. p. 8-9
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Some climatic and oceanographic controls on the time and place of mineralization, by W. F. Cannon. p. 24-25
Late Cretaceous and Paleogene nonmarine climates in North America, by J. A. Wolfe. p. 30-31
Volcanic manganese deposits in the Western Cordillera; lithologic associations and paleoceanographic settings and economic deposits associated with biogenic siliceous rocks, by J. R. Hein, and R. A. Koski. 1983. p. 32-33
Organic carbon, sulfur, and iron relationships as an aid to understanding depositional environments and syngenetic metals in Recent and ancient sediments, by J. S. Leventhal. p. 34-36
Carbon dioxide, geochemical modeling, and paleoenvironmental reconstructions, by E. T. Sundquist. p. 43
Isotopic research, climate, and the genesis of mineral deposits, by B. R. Doe. p. 44-48


Low-temperature geothermal resources in the Western United States, by R. H. Mariner, C. A. Brook, M. J. Reed, J. D. Bliss, A. L. Rapport, and R. J. Lieb. p. 31-50

Low-temperature geothermal resources in the Central and Eastern United States, by M. L. Sorey, M. J. Reed, Duncan Foley, and J. L. Renner. p. 51-65


D. CALIFORNIA. Petroleum potential of wilderness lands in California, by E. W. Scott. p. D1-D12


F. IDAHO. Petroleum potential of wilderness lands in Idaho, by C. A. Sandberg. p. F1-F6


I. NEW MEXICO. Petroleum potential of wilderness lands in New Mexico, by R. T. Ryder. p. I1-I33


P. Estimates of the potential petroleum resources in wilderness lands, by B. M. Miller. p. P1-P15


Are there petroleum resources in Antarctica?, by J. C. Behrendt. p. 3-24

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Miscellaneous and Special Books

GEOGRAPHIC NAMES INFORMATION SYSTEM (GNIS)
The Geographic Names Information System currently consists of approximately two million name entries with information about the feature name and category and its geographic location by coordinates, county, and USGS topographic maps. The name file was developed from published 7.5-minute topographic quadrangles. In areas where 7.5-minute quadrangles have not been published, 15-minute quadrangles or 1:250,000-scale maps provided basic name data.

Presently available are Alphabetical Findings Lists for Alabama, Alaska, Arizona, Arkansas, Colorado, Connecticut, Delaware, Florida, Georgia, Idaho, Illinois, Indiana, Iowa, Kansas, Kentucky, Maryland, Massachusetts, Montana, Nebraska, New Hampshire, New Jersey, New York, North Dakota, Oklahoma, Oregon, Rhode Island, South Dakota, Utah, Virginia, Washington, D.C., West Virginia, Wisconsin, Wyoming and for populated places in the U.S. and territories. These lists consist of spiral-bound computer printouts of name files. Included with each State list are definitions, the Federal Information Processing Standards (FIPS) code designation, quadrangle map name in alphabetical order and also numerical sequence, and alphabetical listings with coordinates. State files are also available in microfiche.

Unedited computer printouts, specialized searches, and computer tapes may also be purchased.

GNIS, developed by Geographic Names Information Section, Branch of Geographic Names, Office of Geographic Research, National Mapping Division, is the basis for Professional Paper 1200. The first chapter, P-1200-NJ (New Jersey) was published in 1982 (revised 1983) and the others will follow. The interim materials described may meet the needs of a wide variety of potential users until all chapters have been published.

Products may be ordered from U.S. Geological Survey, NCIC, 507 National Center, Reston, Virginia 22092. Telephone (703) 860-6039. Unedited computer printouts are available for all other States and territories.

Information and Specialized searches may be requested from U.S. Geological Survey, Manager GNIS, 523 National Center, Reston, Virginia 22092. Telephone (703) 860-6261.

CATALOGS


REPORTS AVAILABLE ONLY THROUGH NTIS

The following reports may be obtained from the National Technical Information Service, U.S. Department of Commerce, Springfield, VA 22161. When ordering, please use the NTIS number preceding each item.

ADA-114 818. MINNESOTA. Quality of surface water before implementation of a flood-control project in Chaska, Minnesota, by L. H. Tornes. 1981. 58 p. (Water-Resources Investigations 81-83.)


PB-83 124 651. NEW YORK. Geology and ground-water resources of Oswego County, New York, by T. S. Miller. 1982. 42 p. (Water-Resources Investigations 81-60.)

PB-83 149 229. CALIFORNIA. Ground water in the Seaside area, Monterey County, California, by K. S. Muir. 1982. 42 p. (Water-Resources Investigations 82-10.)

PB-83 151 431. OKLAHOMA. Preliminary projections of the effects of chloride-control structures on the Quaternary aquifer at Great Salt Plains, Oklahoma, by J. E. Reed. 1981. 50 p. (Water-Resources Investigations 80-120.)

PB-83 151 852. DELAWARE, NEW JERSEY. Chemical-quality reconnaissance of the water and surficial bed material in the Delaware River estuary and adjacent New Jersey tributaries, 1980-81, by J. J. Hochreiter, Jr. 1982. 50 p. (Water-Resources Investigations 82-36.)

PB-83 152 223. ALABAMA. Methodology for hydrologic evaluation of a potential surface mine; Loblolly Branch basin, Tuscaloosa County, Alabama, by L. M. Shown, D. G. Frickel, R. F. Miller, and F. A. Branson. 1982. 101 p. (Water-Resources Investigations 82-50.)


PB-83 165 175. WISCONSIN. Aquatic biology in Nederlo sources of Oswego County, New York, by T. S. Miller, and F. A. Branson. 1982. 101 p. (Water-Resources Investigations 82-50.)


PB-83 184 309. INDIANA. Ground-water resources of the White River basin, Hamilton and Tipton counties, Indiana, by L. D. Arihood. 1982. 76 p. (Water-Resources Investigations 82-48.)


PB-83 196 147. INDIANA. Ground-water resources of the White River basin, Delaware County, Indiana, by L. D. Arihood, and W. W. Lapham. 1982. 76 p. (Water-Resources Investigations 82-48.)

PB-83 205 070. FLORIDA. Hydrogeology of a landfill, Pinellas County, Florida, by M. Fernandez, Jr. 1983. 41 p. (Water-Resources Investigations 82-30.)


PB-83 218 396. FLORIDA. Water resources of Manatee County, Florida, by D. P. Brown. 1983. 120 p. (Water-Resources Investigations 81-74.)


PB-83 237 370. CALIFORNIA. Principal facts, accuracies, sources, and base station descriptions for 701 gravity stations and 1,922 gridded values on the Long Beach 1° X 2° Quadrangle, California, by D. A. Pounce. 1983.


PB-84 107 705 GEOThERM data tape giving geochemistry of geothermal springs, wells in the United States, by J. D. Bliss. 1984. 1 tape.

PB-84 109 149. DELAWARE. Ground-water temperature of the Wyoming Quadrangle in central Delaware, with application to ground-water-source heat pumps, by A. L. Hodges, Jr. 1982. 36 p. (Water-Resources Investigations 82-53.)

PB-84 119 924. CALIFORNIA. A study of seismic response at stations 6 and 7, El Centro strong motion array, Imperial Valley, California, by A. T. Chen. 1983.

WATER-RESOURCES INVESTIGATIONS

"Water-Resources Investigations" (WRI) in this listing is applied to reports that are of an interpretative nature made available to the public outside the formal USGS publications series. WRI's are not reproduced and distributed in quantity as are formal USGS publications, but are available for public inspection at the indicated depositories.

The following WRI reports are available from the Open-File Services Section, Western Distribution Branch, U.S. Geological Survey, Box 25425, Federal Center, Denver, CO 80225 (telephone 303-234-5868). For specific ordering instructions, please refer to "Reports Available Only Through the Open-File Services Section" under "Open-File Reports." When ordering, use the WRI number preceding each item, and do not mix orders for WRI reports and Open-File Reports with other Geological Survey products.
WRI 82-4064. SOUTH DAKOTA. A digital-computer model of the Big Sioux Aquifer in Minnehaha County, South Dakota, by N. C. Koch. 1982. 56 p. (NC, Da, M, Wb; USGS, WRD, Room 317, Federal Bldg., 200 Fourth St., SW., Huron, SD 57350; Public Inquiries Office, 302 National Ctr., Room 1C402, Reston, VA 22092.)


WRI 82-4069. FLORIDA. Drainage areas in Duval County, Florida, by R. B. Stone, and J. B. Largen. 1982. 1 over-size sheet, scale 1:24,000 (1 inch = 2,000 feet) and scale 1:62,500 (1 inch = about 1 mile). (NC, Da, M, Wb; USGS, WRD, 4415 Beach Blvd., Jacksonville, FL 32207.)

WRI 82-4072. COLORADO, KANSAS, NEBRASKA, NEW MEXICO, OKLAHOMA, SOUTH DAKOTA, TEXAS, WYOMING. A data management system for areal interpretative data for the High Plains in parts of Colorado, Kansas, Nebraska, New Mexico, Oklahoma, South Dakota, Texas, and Wyoming, by R. R. Luckey, and C. F. Ferrigno. 1982. 118 p. (NC, Da, M, Db, T; USGS, WRD, Bldg. 53 (Box 25046, Mail Stop 412), Denver Federal Ctr., Denver, CO 80225.)


WRI 82-4076. COLORADO. Hydrologic-information needs for oil-shale development, northwestern Colorado, by O. J. Taylor. 1982. 101 p. (Db, Da, NC, Wb; USGS, WRD, Bldg. 53 (Box 25046, Mail Stop 415), Denver Federal Ctr., Denver, CO 80225.)

WRI 82-4078. OREGON. Magnitude and frequency of floods in eastern Oregon, by D. D. Harris, and L. E. Hubbard. 1982. 45 p. (M, NC, Da, L, S, Wb, SF; USGS, WRD, 847 NE. 19th Ave., Suite 300, Portland, OR 97232; Public Inquiries Office, Menlo Park, CA 94025.)


WRI 82-4083. NORTH CAROLINA. The effects of channel excavation on water-quality characteristics of the Black River and ground-water levels near Dunn, North Carolina, by C. E. Simmons, and S. A. Watkins. 1982. 33 p. (NC, Da, M, Wb; USGS, WRD (P.O. Box 2857), Room 436, Century Station, Post Office Bldg., Raleigh, NC 27602; Public Inquiries Office, National Ctr., Mail Stop 302, Room 1C402, Reston, VA 22092.)

WRI 82-4085. NEVADA, CALIFORNIA. Two-dimensional, steady-state model of ground-water flow, Nevada Test Site and vicinity, Nevada-California, by R. K. Waddell. 1982. 77 p. 1 over-size sheet, scale 1:250,000 (1 inch = about 4 miles). (NC, Da, M, Db, LA, SF, Wb; USGS, WRD, Nuclear Hydrology Program, Room H-2115, Bldg. 53 (Box 25046, Mail Stop 416), Denver Federal Ctr., Denver, CO 80225.)

WRI 82-4086. FLORIDA. Trends and fluctuations in the potentiometric surface of the Floridan Aquifer, west-central Florida, 1961-80, by D. K. Yoobbi. 1982. 1 over-size sheet, scale 1:1,000,000 (1 inch = about 16 miles). (NC, Da, M, Wb; USGS, WRD, Suite 3015, 227 North Bronough St., Tallahassee, FL 32301; USGS, WRD, Suite B-5, 4710 Eisenhower Blvd., Tampa, FL 33614.)

WRI 82-4087. MONTANA. Suspended sediment in selected streams of southeastern Montana, by D. W. Litke. 1982. 57 p. (Da, M, NC, Db, U, S, Wb; USGS, WRD, 428 Federal Bldg., 301 South Park, Drawer 10076, Helena, MT 59626; USGS, WRD, 3 North Seventh St., West, Billings, MT 59101; Billings City-County Library, 310 North Broadway, Billings, MT 59101; Henry Malley Memorial Library, 101 South Lincoln, Broadus, MT 59317; Miles City Public Library, 1 South Tenth St. Miles City, MT 59301; Rosebud County Library, 201 North Ninth Ave., Forsyth, MT 59327.)

WRI 82-4089. FLORIDA. Hydrogeology of the Sarasota-Port Charlotte area, Florida, by R. M. Wolansky. 1983. 54 p. (Wb, NC, Da, M; USGS, WRD, Suite 3015, 227 North Bronough St., Tallahassee, FL 32301; USGS, WRD, Suite B-5, 4710 Eisenhower Blvd., Tampa, FL 33614.)


WRI 82-4113. NEW MEXICO. Estimation of natural streamflow in the Jemez River at the boundaries of Indian lands, central New Mexico, by E. E. Fischer, and J. P. Borland. 1983. 33 p. (NC, Da, Db, T, Wb; USGS, WRD, Room 815, Western Bank Bldg., 505 Marquette, NW., Albuquerque, NM 87125.)

WRI 82-4118. NEW MEXICO. Geologic and well-construction data for the H-8 borehole complex near the proposed Waste Isolation Pilot Plant site, southeastern New Mexico, by S. L. Drellack, Jr., and J. G. Wells. 1982. 46 p., 1 over-size sheet. (NC, Da, Db, T, Wb; USGS, WRD, Room 815, Western Bank Bldg., 505 Marquette, NW., Albuquerque, NM 87125.)

WRI 82-4119. LOUISIANA. A two-dimensional finite-element model study of backwater and flow distribution at the I-10 crossing of the Pearl River near Slidell, Louisiana, by J. K. Lee, D. C. Froehlich, J. J. Gilbert, and G. J. Wiche. 1982. 66 p., 8 over-size sheets, scale 1:18,000 (1 inch = 1,500 feet). (NC, Da, M; USGS, WRD, Box 66492, Baton Rouge, LA 70896; Asst. Chief Hydrologist, R&TC, 12201 Sunrise Valley Dr., Mail Stop 414, Reston, VA 22092.)


WRI 82-4124. TEXAS. Water quality of Somerville Lake, south-central Texas, by Emma McPherson, and H. B. Mendieta. 1983. 94 p. (T, NC; USGS, WRD, 300 East Eighth St., Room 651, Austin, TX 78701.)

WRI 82-4125. WASHINGTON. Mudflow hazards along the Toutle and Cowlitz rivers from a hypothetical failure of Spirit Lake blockage, by C. H. Swift, III, and D. L. Kresch. 1982. 15 p., 10 over-size sheets, scale 1:24,000 (1 inch = 2,000 feet). (NC, M, Da, Wb; USGS, WRD, 1201 Pacific Ave., Suite 600, Tacoma, WA 98402.)

WRI 83-4000. CALIFORNIA. Geology of the Tulare Formation and other continental deposits, Kettleman City area, San Joaquin Valley, California, with a section on ground-water management considerations and use of texture maps, by R. W. Page. 1983. 28 p., 2 over-size sheets. (NC, Da, M, Wb, LA, SF; USGS, WRD, Federal Bldg., Room W-2235, 2800 Cottage Way, Sacramento, CA 95825; USGS, WRD, Laguna Federal Bldg., Fifth Floor, 24000 Avila Rd., Laguna Niguel, CA 92677; Public Inquiries Office, 345 Middlefield Rd., Mail Stop 33, Menlo Park, CA 94025.)


WRI 83-4005. Hydraulic considerations in sampling the unsaturated zone with inclined gravity lysimeters, by E. T. Oksford. 1983. 21 p. (NC, M, Wb, USGS, WRD (P.O. Box 1350), 343 U.S. Post Office and Courthouse, Albany, NY 12201.)

WRI 83-4006. A guide to the larvae of the Nearctic Diamesinae (Diptera; Chironomidae); the genera Boreohepiogastria, Protanypus, Diamesa, and Pseudokiefferiella, by J. S. Doughtman. 1983. 61 p. (NC, M, Da, Wb; USGS, WRD. National Water Quality Laboratory-Atlanta, 6481-H Peachtree Industrial Blvd., Doraville, GA 30340.)

WRI 83-4008. MONTANA. Significance of water quality to fish propagation, waterfowl habitat, livestock watering, and recreation use for 24 lakes and reservoirs in Valley and Phillips counties, Montana, by R. F. Ferreira. 1983. 63 p. (Da, M, NC, Db, U, S, Wb; USGS, WRD, 428 Federal Bldg., 301 South Park, Drawer 10076, Helena, MT 59626; USGS, WRD, 3 North Seventh St., West, Billings, MT 59101; Glasgow City-County Library, 408 Third Ave., South, Glasgow, MT 59230; Phillips County Library, 133 South First West, Malta, MT 59538.)


WRI 83-4020. MAINE. Initial assessment of time of travel and mixing use for 34 lakes and ponds in southern Franklin County, Maine, by G. W. Parker, and G. S. Hunt. 1983. 60 p. (NC, M, Da; USGS, WRD, 150 Causeway St., Suite 1309, Boston, MA 02114.)

WRI 83-4022. OHIO. Simulations of non-steady flow in a glacial outwash aquifer, southern Franklin County, Ohio, by A. C. Razem. 1983. 21 p. (NC, Da, M, Wb, USGS, WRD, 935 West Third Ave., Columbus, OH 43212.)

WRI 83-4028. NEW JERSEY. Computer simulation model of the Pleistocene valley-fill aquifer in southwestern Essex and southeastern Morris counties, New Jersey, by Harold Meisler. 1983. 76 p., 1 over-size sheet, scale 1:24,000 (1 inch = 2,000 feet). (NC, Wb; USGS, WRD, Room 430, Federal Bldg., 402 East State St., Trenton, NJ 08608.)
PUBLICATIONS OF THE U.S. GEOLOGICAL SURVEY, 1983

WRI 83-4029. NEW JERSEY. Geology and ground-water resources of Camden County, New Jersey, by G. M. Farlekas, Bronius Nemickas, and H. E. Gill. 1983. 158 p., 9 over-size sheets. (NC, Wb; USGS, WRD, Room 430, Federal Bldg., 402 East State St., Trenton, NJ 08608.)


WRI 83-4032. PENNSYLVANIA. Water-quality assessment of Francis E. Walter Reservoir, Luzerne and Carbon counties, Pennsylvania, by J. L. Barker. 1983. 56 p. (NC, Da, M, Wb; USGS, WRD, Federal Bldg., 228 Walnut St., Harrisburg, PA 17108.)


WRI 83-4035. ARIZONA. Streamflow losses and changes in ground-water levels along the Salt and Gila rivers near Phoenix, Arizona; February 1978 to June 1980, by L. J. Mann, and P. B. Rohne, Jr. 1983. 15 p., 3 over-size sheets, scale 1:250,000 (1 inch = about 4 miles). (NC, M, Da; USGS, WRD, Federal Bldg., 301 West Congress, FB-44, Tucson, AZ 85701, USGS, WRD, Flagstaff Field Ctr., 2255 North Gemini Dr., Flagstaff, AZ 86001; USGS, WRD, Suite 1880, Valley Ctr., Phoenix, AZ 85073; USGS, WRD, P.O. Box 5774, 1940 South Third Ave., Yuma, AZ 85364.)


WRI 83-4038. LOUISIANA, MISSISSIPPI. Backwater and discharge at highway crossings with multiple bridges in Louisiana and Mississippi, by B. E. Colson, and V. R. Schneider. 1983. 46 p. (NC; USGS, WRD, Federal Bldg., 1013 North Broadway, Knoxville, TN 37917.)

WRI 83-4039. COLORADO. Hydrology and subsidence potential of proposed coal-lease tracts in Delta County, Colorado, by Tom Brooks. 1983. 32 p. (Db, Da, NC, Wb; USGS, WRD, Bldg. 53 (Box 25046, Mail Stop 415), Denver Federal Ctr., Denver, CO 80225; USGS, WRD, (P.O. Box 2027), Grand Junction, CO 81502.)


WRI 83-4042. COLORADO. Simulated effects of anticipated coal mining on dissolved solids in selected tributaries of the Yampa River, northwestern Colorado, by R. S. Parker, and J. M. Norris. 1983. 72 p. (Da, NC, Wb; USGS, WRD, Bldg. 53 (Box 25046, Mail Stop 415), Denver Federal Ctr., Denver, CO 80225.)
OPEN-FILE REPORTS

Open-file reports include unpublished manuscript reports, maps, and other material and are made available for public consultation and use. They are a nonpermanent form of publication that may be cited in other publications as sources of information. They are not considered to be a part of the formal literature.

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- SF Public Inquiries Office
- T Public Inquiries Office
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- Wa Public Inquiries Office
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A microfiche copy of a computer listing of reports showing report number and paper copy and microfiche prices is available from the OFSS. The listing does not show author or title of the reports. This "Open File Report Price Listing" is updated monthly. Contact the OFSS for information concerning the price of the listing.

OF 78-0556-I. MAINE. Drainage areas of surface water bodies of central Maine coastal river basins, by R. A. Fontaine. 31 p. (NC; USGS, WRD, 150 Causeway St., Suite 1001, Boston, MA 02114; USGS, WRD, 25 Ganneston Dr., Augusta, ME 04330.)

OF 79-0303. OKLAHOMA. Federal coal resource occurrence and Federal coal development potential maps of the Wilburton 7.5-minute Quadrangle, Latimer County, Oklahoma, by Geological Services of Tulsa, Inc., and B. T. Brady, USGS. 33 p., 25 over-size sheets, scale 1:24,000 (1 inch = 2,000 feet). (M, NC, Da, T.)

OF 79-0306. OKLAHOMA. Federal coal resource occurrence and Federal coal development potential maps of the Stigler West 7.5-minute Quadrangle, Muskogee and Haskell counties, Oklahoma, by Geologic Services of Tulsa, Inc., and B. T. Brady, USGS. 37 p., 6 over-size sheets, scale 1:24,000 (1 inch = 2,000 feet). (M, NC, Da, T.)

OF 79-0307. OKLAHOMA. Federal coal resource occurrence and Federal coal development potential maps of the Stigler east 7.5-minute quadrangle, Muskogee and Haskell counties, Oklahoma, by Geological Services of Tulsa, Inc., and B. T. Brady, USGS. 39 p., 11 over-size sheets, scale 1:24,000 (1 inch = 2,000 feet). (M, NC, Da, T.)

OF 79-0619. NEW MEXICO. Coal resource occurrence and coal development potential maps of the Nageezi NE Quadrangle, Rio Arriba and San Juan counties, New Mexico, by Dames and Moore. 18 p., 9 over-size sheets, scale 1:24,000 (1 inch = 2,000 feet). (NC, Da, M, Db, U.)

OF 79-1254. IOWA. Water quality of Three Mile Creek, Badger Creek, and Little River watersheds, Iowa, by L. J. Slack. 77 p. (NC, Da; USGS, WRD, Room 269, Federal Bldg., 400 South Clinton St., Iowa City, IA 52240.)

OF 79-1597. MINING, RECLAMATION, AND WATER QUALITY, BY G. L. FEDER. 2 P. (NC, DA.)

OF 79-1598. ASSESSMENT OF POTENTIAL IMPACTS TO THE HYDROLOGIC SYSTEM RELATED TO SURFACE MINING, BY R. F. HADLEY. 3 P. (NC; DA; USGS, WRD, MFL 10, 150 Causeway St., Suite 1001, Boston, MA 02114; USGS, WRD, 25 Ganneston Dr., Augusta, ME 04330.)

OF 79-1635. PHYSICAL AND CHEMICAL PROPERTIES OF THE POCOMAC RIVER AND ENVIRONS, AUGUST-SEPTEMBER 1977, BY R. E. SMITH, AND R. E. HERDON. 80 P. (NC; M; USGS, WRD, 345 MIDDLEFIELD RD., MAIL STOP 96, FEDERAL BLDG., 400 SOUTH CLINTON ST., IOWA CITY, IA 52240.)

4. Determining the form of metals in oxidized sediments; assessing the action of chemical extractants, by S. N. Luoma, and G. W. Bryan. p. 67-106

5. Determining the form of metals in oxidized estuarine sediments; statistical assessments, by S. N. Luoma, and G. W. Bryan. p. 107-143


9. Controls on the availability of Ag, Cd, Co, Fe and Mn to estuarine bivalves (Scrobicularia plana) and polychaetes (Nereis diversicolor) and seaweed (Fucus vesiculosus), by S. N. Luoma, and G. W. Bryan. p. 207-235

10. Controls on Cu concentrations in estuarine bivalves (Scrobicularia plana), polychaetes (Nereis diversicolor) and seaweed (Fucus vesiculosus), by S. N. Luoma, and G. W. Bryan. p. 236-257


12. CALIFORNIA. Fluctuations of copper, zinc and silver in clams from South San Francisco Bay as related to freshwater discharge, by S. N. Luoma, and D. J. Cain. p. 284-306


14. Bioaccumulation and toxicity to Cu in Macoma balthica; inter-population heterogeneity and the role of Ag, by D. J. Cain, and S. N. Luoma. p. 314-320


OF 80-0751. CONNECTICUT. Ground-water availability and water quality, Farmington, Connecticut, by D. L. Mazzaferro. 68 p., 7 over-size sheets, scale 1:24,000 (1 inch = 2,000 feet). (NC; USGS, WRD, 135 High St., Room 235, Hartford, CT 06103.) (Water-Resources Investigations.)

OF 80-0811-G. ALASKA. Mineral resource assessment map of the Medfra Quadrangle, Alaska, by W. W. Patton, Jr., and E. J. Moll. 3 over-size sheets, scale 1:250,000 (1 inch = about 4 miles). (NC, Da, M. A. S, SF, LA; USGS, Room 207, O'Neill Bldg., Univ. Alaska (P.O. Box 80586), Fairbanks, AK 99708; Alaska Div. Geol. and Geophys. Surveys, Frontier Bldg., 3601 C St., Anchorage, AK 99503 (Mail address: Pouch 7-028, Anchorage, AK 99501); and 794 University Ave., Fairbanks, AK 99701.)

OF 80-0811-H. ALASKA. Distribution and abundance of gold and silver in nonmagnetic and moderately magnetic heavy-mineral-concentrate and minus-80-mesh stream-sediment samples and silver in ash of aquatic-bryophage samples, Medfra Quadrangle, Alaska, by H. D. King, E. F. Cooley, A. L. Gruzensky, and D. L. Spiesman, Jr. 3 over-size sheets, scale 1:250,000 (1 inch = about 4 miles). (NC, Da, M. A. S, SF, LA; USGS, Room 207, O'Neill Bldg., Univ. Alaska (P.O. Box 80586), Fairbanks, AK 99708; Alaska Div. Geol. and Geophys. Surveys, Frontier Bldg., 3601 C St., Anchorage, AK 99503 (Mail address: Pouch 7-028, Anchorage, AK 99501); and 794 University Ave., Fairbanks, AK 99701.)

OF 80-0811-I. ALASKA. Distribution and abundance of copper, lead, and zinc in nonmagnetic and moderately magnetic heavy-mineral-concentrate, minus-80-mesh stream-sediment, and ash of aquatic-bryophage samples, Medfra Quadrangle, Alaska, by H. D. King, R. B. Tripp, R. M. O'Leary, and E. F. Cooley. 6 over-size sheets, scale 1:250,000 (1 inch = about 4 miles). (NC, Da, M. A. S, SF, LA; USGS, Room 207, O'Neill Bldg., Univ. Alaska (P.O. Box 80586), Fairbanks, AK 99708; Alaska Div. Geol. and Geophys. Surveys, Frontier Bldg., 3601 C St., Anchorage, AK 99503 (Mail address: Pouch 7-028, Anchorage, AK 99501); and 794 University Ave., Fairbanks, AK 99701.)

OF 80-0811-J. ALASKA. Distribution and abundance of molybdenum, tin, and tungsten in nonmagnetic and moderately magnetic heavy-mineral-concentrate samples and tin in minus-80-mesh stream-sediment and ash of aquatic-bryophage samples. Medfra Quadrangle, Alaska, by H. D. King, D. A. Risoli, and R. B. Tripp. 4 over-size sheets, scale 1:250,000 (1 inch = about 4 miles). (NC, Da, M. A. S, SF, LA; USGS, Room 207, O'Neill Bldg., Univ. Alaska (P.O. Box 80586), Fairbanks, AK 99708; Alaska Div. Geol. and Geophys. Surveys, Frontier Bldg., 3601 C St., Anchorage, AK 99503 (Mail address: Pouch 7-028, Anchorage, AK 99501); and 794 University Ave., Fairbanks, AK 99701.)

OF 80-0811-K. ALASKA. Distribution and abundance of arsenic and bismuth in nonmagnetic and moderately magnetic heavy-mineral-concentrate samples and arsenic in minus-80-mesh stream-sediment and ash of aquatic-bryophage samples, Medfra Quadrangle, Alaska, by H. D. King, E. F. Cooley, and D. L. Spiesman, Jr. 3 over-size sheets, scale 1:250,000 (1 inch = about 4 miles). (NC, Da, M. A. S, SF, LA; USGS, Room 207, O'Neill Bldg., Univ. Alaska (P.O. Box 80586), Fairbanks, AK 99708; Alaska Div. Geol. and Geophys. Surveys, Frontier Bldg., 3601 C St., Anchorage, AK 99503 (Mail address: Pouch 7-028, Anchorage, AK 99501); and 794 University Ave., Fairbanks, AK 99701.)

OF 80-0811-L. ALASKA. Distribution and abundance of antimony and mercury in minus-80-mesh stream-sediment and antimony in nonmagnetic and moderately magnetic heavy-mineral-concentrate samples, Medfra Quadrangle, Alaska, by H. D. King, R. M. O'Leary, D. A. Risoli, and D. W. Galland. 4 over-size sheets, scale 1:250,000 (1 inch = about 4 miles). (NC, Da, M. A. S, SF, LA; USGS, Room 207, O'Neill Bldg., Univ. Alaska (P.O. Box 80586), Fairbanks, AK 99708; Alaska Div. Geol. and Geophys. Surveys, Frontier Bldg., 3601 C St., Anchorage, AK 99503 (Mail address: Pouch 7-028, Anchorage, AK 99501); and 794 University Ave., Fairbanks, AK 99701.)
OF 81-0494. FLORIDA. Hydrologic description of Lake Jackson, Sebring, Florida, by K. M. Hammett. 1 over-size sheet. (Wb, NC, Da, M; USGS, Suite F-240, 325 John Knox Rd., Tallahassee, FL 32303; USGS, Suite B-5, 4710 Eisenhower Blvd., Tampa, FL 33614; Libraries of the State University System of Florida.) *A limited number of copies of this report are available from USGS, Suite F-240, 325 John Knox Rd., Tallahassee, FL 32303. (Water-Resources Investigations.)

OF 81-0499. NEW YORK. Ground-water pumping in Nassau County, Long Island, New York, 1920-77; Introduction and user's guide to the data compilation, by Chabot Kilburn. 70 p., 2 over-size sheets. (USGS, WRD; 5 Aerial Way, Syosset, NY 11791.)


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OF 81-1302. ALASKA. Surficial geology and peat resources map of the Rogers Creek area, Susitna Valley, Alaska, by C. C. Cameron, T. J. Malterer, S. E. Rawlinson, and S. B. Hardy. 3 over-size sheets, scale 1:15,840 (1 inch = 1,320 feet). (NC, Da, M, A, SF, LA; USGS, Room 207, O'Neill Bldg., Univ. Alaska (P.O. Box 80586), Fairbanks, AK 99708; Alaska Div. Geol. and Geophys. Surveys, 3001 Porcupine Dr., Anchorage, AK 99501; and University Ave. (P.O. Box 80007), Fairbanks, AK 99708.)
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OF 83-0420-A. ALASKA. A listing and statistical summary of analytical results for pebbles, stream sediments, and heavy-mineral concentrates from stream sediments, Petersburg area, Southeast Alaska, by J. B. Cathrall, G. W. Day, J. D. Hoffman, and S. K. McDanal. 281 p., 1 over-size sheet, scale 1:250,000 (1 inch = about 4 miles). (NC, Da, M, S, SF, LA; USGS, Room 207, O'Neill Bldg., Univ. Alaska (P.O. Box 80586), Fairbanks, AK 99708; Alaska Div. Geol. and Geophys. Surveys, 3001 Porcupine Dr., Anchorage, AK 99501; and University Ave. (P.O. Box 80007), Fairbanks, AK 99708.)

OF 83-0420-B. ALASKA. Distribution and abundance of copper, determined by spectrographic analysis, in the minus-80-mesh fraction of stream sediments, Petersburg area, Southeast Alaska, by J. B. Cathrall, G. W. Day, J. D. Hoffman, and S. K. McDanal. 1 over-size sheet, scale 1:250,000 (1 inch = about 4 miles). (NC, Da, M, A, S, SF, LA; USGS, Room 207, O'Neill Bldg., Univ. Alaska (P.O. Box 80586), Fairbanks, AK 99708; Alaska Div. Geol. and Geophys. Surveys, 3001 Porcupine Dr., Anchorage, AK 99501; and University Ave. (P.O. Box 80007), Fairbanks, AK 99708.)
OF 83-0420-C. ALASKA. Distribution and abundance of copper, determined by spectrographic analysis, in nonmagnetic fraction of heavy-mineral concentrates from stream sediments, Petersburg area, Southeast Alaska, by J. B. Cathrall, G. W. Day, J. D. Hoffman, and S. K. McDanal. 1 over-size sheet, scale 1:250,000 (1 inch = about 4 miles). (NC, Da, M, A, S, SF, LA; USGS, Room 207, O’Neill Bldg., Univ. Alaska (P.O. Box 80586), Fairbanks, AK 99708; Alaska Div. Geol. and Geophys. Surveys, 3001 Porcupine Dr., Anchorage, AK 99501; and University Ave. (P.O. Box 80007), Fairbanks, AK 99708.)

OF 83-0420-D. ALASKA. Distribution and abundance of lead, determined by spectrographic analysis, in the minus-80-mesh fraction of stream sediments, Petersburg area, Southeast Alaska, by J. B. Cathrall, G. W. Day, J. D. Hoffman, and S. K. McDanal. 1 over-size sheet, scale 1:250,000 (1 inch = about 4 miles). (NC, Da, M, A, S, SF, LA; USGS, Room 207, O’Neill Bldg., Univ. Alaska (P.O. Box 80586), Fairbanks, AK 99708; Alaska Div. Geol. and Geophys. Surveys, 3001 Porcupine Dr., Anchorage, AK 99501; and University Ave. (P.O. Box 80007), Fairbanks, AK 99708.)

OF 83-0420-E. ALASKA. Distribution and abundance of lead, determined by spectrographic analysis, in nonmagnetic fraction of heavy-mineral concentrates from stream sediments, Petersburg area, Southeast Alaska, by J. B. Cathrall, G. W. Day, J. D. Hoffman, and S. K. McDanal. 1 over-size sheet, scale 1:250,000 (1 inch = about 4 miles). (NC, Da, M, A, S, SF, LA; USGS, Room 207, O’Neill Bldg., Univ. Alaska (P.O. Box 80586), Fairbanks, AK 99708; Alaska Div. Geol. and Geophys. Surveys, 3001 Porcupine Dr., Anchorage, AK 99501; and University Ave. (P.O. Box 80007), Fairbanks, AK 99708.)

OF 83-0420-F. ALASKA. Distribution and abundance of zinc, determined by spectrographic analysis, in the minus-80-mesh fraction of stream sediments, Petersburg area, Southeast Alaska, by J. B. Cathrall, G. W. Day, J. D. Hoffman, and S. K. McDanal. 1 over-size sheet, scale 1:250,000 (1 inch = about 4 miles). (NC, Da, M, A, S, SF, LA; USGS, Room 207, O’Neill Bldg., Univ. Alaska (P.O. Box 80586), Fairbanks, AK 99708; Alaska Div. Geol. and Geophys. Surveys, 3001 Porcupine Dr., Anchorage, AK 99501; and University Ave. (P.O. Box 80007), Fairbanks, AK 99708.)

OF 83-0420-G. ALASKA. Distribution and abundance of zinc, determined by spectrographic analysis, in nonmagnetic fraction of heavy-mineral concentrates from stream sediments, Petersburg area, Southeast Alaska, by J. B. Cathrall, G. W. Day, J. D. Hoffman, and S. K. McDanal. 1 over-size sheet, scale 1:250,000 (1 inch = about 4 miles). (NC, Da, M, A, S, SF, LA; USGS, Room 207, O’Neill Bldg., Univ. Alaska (P.O. Box 80586), Fairbanks, AK 99708; Alaska Div. Geol. and Geophys. Surveys, 3001 Porcupine Dr., Anchorage, AK 99501; and University Ave. (P.O. Box 80007), Fairbanks, AK 99708.)

OF 83-0420-H. ALASKA. Distribution and abundance of barium, determined by spectrographic analysis, in the minus-80-mesh fraction of stream sediments, Petersburg area, Southeast Alaska, by J. B. Cathrall, G. W. Day, J. D. Hoffman, and S. K. McDanal. 1 over-size sheet, scale 1:250,000 (1 inch = about 4 miles). (NC, Da, M, A, S, SF, LA; USGS, Room 207, O’Neill Bldg., Univ. Alaska (P.O. Box 80586), Fairbanks, AK 99708; Alaska Div. Geol. and Geophys. Surveys, 3001 Porcupine Dr., Anchorage, AK 99501; and University Ave. (P.O. Box 80007), Fairbanks, AK 99708.)

OF 83-0420-I. ALASKA. Distribution and abundance of baryum, determined by spectrographic analysis, in nonmagnetic fraction of heavy-mineral concentrates from stream sediments, Petersburg area, Southeast Alaska, by J. B. Cathrall, G. W. Day, J. D. Hoffman, and S. K. McDanal. 1 over-size sheet, scale 1:250,000 (1 inch = about 4 miles). (NC, Da, M, A, S, SF, LA; USGS, Room 207, O’Neill Bldg., Univ. Alaska (P.O. Box 80586), Fairbanks, AK 99708; Alaska Div. Geol. and Geophys. Surveys, 3001 Porcupine Dr., Anchorage, AK 99501; and University Ave. (P.O. Box 80007), Fairbanks, AK 99708.)

OF 83-0420-J. ALASKA. Distribution and abundance of determinable silver by spectrographic analysis, in nonmagnetic fraction of stream sediments, and in the minus-80-mesh fraction of stream sediments, Petersburg area, Southeast Alaska, by J. B. Cathrall, G. W. Day, J. D. Hoffman, and S. K. McDanal. 1 over-size sheet, scale 1:250,000 (1 inch = about 4 miles). (NC, Da, M, A, S, SF, LA; USGS, Room 207, O’Neill Bldg., Univ. Alaska (P.O. Box 80586), Fairbanks, AK 99708; Alaska Div. Geol. and Geophys. Surveys, 3001 Porcupine Dr., Anchorage AK 99501; and University Ave. (P.O. Box 80007), Fairbanks, AK 99708.)

OF 83-0420-K. ALASKA. Distribution and abundance of detectable gold, arsenic, bismuth, and antimony in the nonmagnetic fraction of heavy-mineral concentrates and in the minus-80-mesh fraction from stream sediments, Petersburg area, Southeast Alaska, by J. B. Cathrall, G. W. Day, J. D. Hoffman, and S. K. McDanal. 1 over-size sheet, scale 1:250,000 (1 inch = about 4 miles). (NC, Da, M, A, S, SF, LA; USGS, Room 207, O’Neill Bldg., Univ. Alaska (P.O. Box 80586), Fairbanks, AK 99708; Alaska Div. Geol. and Geophys. Surveys, 3001 Porcupine Dr., Anchorage AK 99501; and University Ave. (P.O. Box 80007), Fairbanks, AK 99708.)

OF 83-0420-L. ALASKA. Distribution and abundance of tin determined by spectrographic analysis in nonmagnetic fraction of heavy-mineral concentrates from stream sediments, Petersburg area, Southeast Alaska, by J. B. Cathrall, G. W. Day, J. D. Hoffman, and S. K. McDanal. 1 over-size sheet, scale 1:250,000 (1 inch = about 4 miles). (NC, Da, M, A, S, SF, LA; USGS, Room 207, O’Neill Bldg., Univ. Alaska (P.O. Box 80586), Fairbanks, AK 99708; Alaska Div. Geol. and Geophys. Surveys, 3001 Porcupine Dr., Anchorage, AK 99501; and University Ave. (P.O. Box 80007), Fairbanks, AK 99708.)

OF 83-0420-M. ALASKA. Distribution and abundance of cadmium determined by spectrographic analysis in nonmagnetic fraction of heavy-mineral concentrates from stream sediments, Petersburg area, Southeast Alaska, by J. B. Cathrall, G. W. Day, J. D. Hoffman, and S. K. McDanal. 1 over-size sheet, scale 1:250,000 (1 inch = about 4 miles). (NC, Da, M, A, S, SF, LA; USGS, Room 207, O’Neill Bldg., Univ. Alaska (P.O. Box 80586), Fairbanks, AK 99708; Alaska Div. Geol. and Geophys. Surveys, 3001 Porcupine Dr., Anchorage, AK 99501; and University Ave. (P.O. Box 80007), Fairbanks, AK 99708.)
OF 83-0420-N. ALASKA. Distribution and abundance of molybdenum, determined by spectrographic analysis, in the minus-80-mesh fraction of stream sediments, Petersburg area, Southeast Alaska, by J. B. Cathrall, G. W. Day, J. D. Hoffman, and S. K. McDanal. 1 over-size sheet, scale 1:250,000 (1 inch = about 4 miles). (NC, Da, M, A, S, SF, LA; USGS, Room 207, O'Neill Bldg., Univ. Alaska (P.O. Box 80586), Fairbanks, AK 99708; Alaska Div. Geol. and Geophys. Surveys, 3001 Porcupine Dr., Anchorage, AK 99501; and University Ave. (P.O. Box 80007), Fairbanks, AK 99708.)

OF 83-0420-O. ALASKA. Distribution and abundance of molybdenum, determined by spectrographic analysis, in nonmagnetic fraction of heavy-mineral concentrates from stream sediments, Petersburg area, Southeast Alaska, by J. B. Cathrall, G. W. Day, J. D. Hoffman, and S. K. McDanal. 1 over-size sheet, scale 1:250,000 (1 inch = about 4 miles). (NC, Da, M, A, S, SF, LA; USGS, Room 207, O'Neill Bldg., Univ. Alaska (P.O. Box 80586), Fairbanks, AK 99708; Alaska Div. Geol. and Geophys. Surveys, 3001 Porcupine Dr., Anchorage, AK 99501; and University Ave. (P.O. Box 80007), Fairbanks, AK 99708.)

OF 83-0420-P. ALASKA. Distribution and abundance of nickel, determined by spectrographic analysis, in the minus-80-mesh fraction of stream sediments, Petersburg area, Southeast Alaska, by J. B. Cathrall, G. W. Day, J. D. Hoffman, and S. K. McDanal. 1 over-size sheet, scale 1:250,000 (1 inch = about 4 miles). (NC, Da, M, A, S, SF, LA; USGS, Room 207, O'Neill Bldg., Univ. Alaska (P.O. Box 80586), Fairbanks, AK 99708; Alaska Div. Geol. and Geophys. Surveys, 3001 Porcupine Dr., Anchorage, AK 99501; and University Ave. (P.O. Box 80007), Fairbanks, AK 99708.)

OF 83-0420-Q. ALASKA. Distribution and abundance of nickel, determined by spectrographic analysis, in nonmagnetic fraction of heavy-mineral concentrates from stream sediments, Petersburg area, Southeast Alaska, by J. B. Cathrall, G. W. Day, J. D. Hoffman, and S. K. McDanal. 1 over-size sheet, scale 1:250,000 (1 inch = about 4 miles). (NC, Da, M, A, S, SF, LA; USGS, Room 207, O'Neill Bldg., Univ. Alaska (P.O. Box 80586), Fairbanks, AK 99708; Alaska Div. Geol. and Geophys. Surveys, 3001 Porcupine Dr., Anchorage, AK 99501; and University Ave. (P.O. Box 80007), Fairbanks, AK 99708.)

OF 83-0420-R. ALASKA. Distribution and abundance of cobalt, determined by spectrographic analysis, in the minus-80-mesh fraction of stream sediments, Petersburg area, Southeast Alaska, by J. B. Cathrall, G. W. Day, J. D. Hoffman, and S. K. McDanal. 1 over-size sheet, scale 1:250,000 (1 inch = about 4 miles). (NC, Da, M, A, S, SF, LA; USGS, Room 207, O'Neill Bldg., Univ. Alaska (P.O. Box 80586), Fairbanks, AK 99708; Alaska Div. Geol. and Geophys. Surveys, 3001 Porcupine Dr., Anchorage, AK 99501; and University Ave. (P.O. Box 80007), Fairbanks, AK 99708.)

OF 83-0420-S. ALASKA. Distribution and abundance of cobalt, determined by spectrographic analysis, in the nonmagnetic fraction of heavy-mineral concentrates from stream sediments, Petersburg area, Southeast Alaska, by J. B. Cathrall, G. W. Day, J. D. Hoffman, and S. K. McDanal. 1 over-size sheet, scale 1:250,000 (1 inch = about 4 miles). (NC, Da, M, A, S, SF, LA; USGS, Room 207, O'Neill Bldg., Univ. Alaska (P.O. Box 80586), Fairbanks, AK 99708; Alaska Div. Geol. and Geophys. Surveys, 3001 Porcupine Dr., Anchorage, AK 99501; and University Ave. (P.O. Box 80007), Fairbanks, AK 99708.)

OF 83-0420-T. ALASKA. Distribution and abundance of chromium, determined by spectrographic analysis, in the minus-80-mesh fraction of stream sediments, Petersburg area, Southeast Alaska, by J. B. Cathrall, G. W. Day, J. D. Hoffman, and S. K. McDanal. 1 over-size sheet, scale 1:250,000 (1 inch = about 4 miles). (NC, Da, M, A, S, SF, LA; USGS, Room 207, O'Neill Bldg., Univ. Alaska (P.O. Box 80586), Fairbanks, AK 99708; Alaska Div. Geol. and Geophys. Surveys, 3001 Porcupine Dr., Anchorage, AK 99501; and University Ave. (P.O. Box 80007), Fairbanks, AK 99708.)

OF 83-0420-U. ALASKA. Distribution and abundance of chromium, determined by spectrographic analysis, in the nonmagnetic fraction of heavy-mineral concentrates from stream sediments, Petersburg area, Southeast Alaska, by J. B. Cathrall, G. W. Day, J. D. Hoffman, and S. K. McDanal. 1 over-size sheet, scale 1:250,000 (1 inch = about 4 miles). (NC, Da, M, A, S, SF, LA; USGS, Room 207, O'Neill Bldg., Univ. Alaska (P.O. Box 80586), Fairbanks, AK 99708; Alaska Div. Geol. and Geophys. Surveys, 3001 Porcupine Dr., Anchorage, AK 99501; and University Ave. (P.O. Box 80007), Fairbanks, AK 99708.)

OF 83-0420-V. ALASKA. Distribution and abundance of tungsten, determined from colorimetric and spectrographic analysis, in the minus-80-mesh fraction of stream sediment, Petersburg area, Southeast Alaska, by J. B. Cathrall, G. W. Day, J. D. Hoffman, and S. K. McDanal. 1 over-size sheet, scale 1:250,000 (1 inch = about 4 miles). (NC, Da, M, A, S, SF, LA; USGS, Room 207, O'Neill Bldg., Univ. Alaska (P.O. Box 80586), Fairbanks, AK 99708; Alaska Div. Geol. and Geophys. Surveys, 3001 Porcupine Dr., Anchorage, AK 99501; and University Ave. (P.O. Box 80007), Fairbanks, AK 99708.)

OF 83-0420-W. ALASKA. Distribution and abundance of tungsten, determined by spectrographic analysis, in nonmagnetic fraction of heavy-mineral concentrates from stream sediments, Petersburg area, Southeast Alaska, by J. B. Cathrall, G. W. Day, J. D. Hoffman, and S. K. McDanal. 1 over-size sheet, scale 1:250,000 (1 inch = about 4 miles). (NC, Da, M, A, S, SF, LA; USGS, Room 207, O'Neill Bldg., Univ. Alaska (P.O. Box 80586), Fairbanks, AK 99708; Alaska Div. Geol. and Geophys. Surveys, 3001 Porcupine Dr., Anchorage, AK 99501; and University Ave. (P.O. Box 80007), Fairbanks, AK 99708.)

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CALIFORNIA. Seismic setting, location, and focal mechanism of the May 2, 1983, Coalinga earthquake, by J. P. Eaton. p. 20-26
CALIFORNIA. Analog strong motion data and processed main event records obtained by U.S. Geological Survey near Coalinga, California, compiled by R. D. Borcherdt. p. 38-60
CALIFORNIA. Digital strong-motion data recorded by U.S. Geological Survey near Coalinga, California, compiled by R. D. Borcherdt. p. 61-76
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OF 83-0546. Ground-water records in St. Croix, Virgin Islands, 1969-73, by H. M. Colon-Ramos. 32 p. (NC, Da, M, Wb; USGS, WRD, GPO Box 4424, San Juan, PR 00936.)

OF 83-0547. FLORIDA. Potentiometric surface of the Floridan Aquifer, Southwest Florida Water Management District, May 1983, by G. L. Barr, and G. R. Schiner. 1 over-size sheet. (NC, Da, M, Wb; USGS, WRD, Suite 3015, Hobbs Federal Bldg., 227 North Bronough St., Tallahassee, FL 32301.)

OF 83-0549. Map showing coal deposits, oil and gas wells and seeps, and tar sandstone occurrences in the Basin and Range Provinces, by B. T. Brady. 100 p., 1 over-size sheet. (NC, Da, M, Wb.)


OF 83-0552. MICHIGAN. Land use and land cover and associated maps for Cheboygan, Michigan. Lat 45° to 46°, long 84° to 86°. This data set consists of one map key to USGS topographic map Cheboygan at 1:250,000 (1 inch = about 4 miles). This map is coded for statistical data development. The map is (1) land use and land cover. Also included is one positive of the cultural base for Cheboygan at 1:250,000. (USGS, Mid-Continent Mapping Ctr. (NCIC-M), 1400 Independence Rd., Rolla, MO 65401.)


ALASKA. Operational summary, by C. M. McCarthy. 5-16 p.

ALASKA. Shallow geologic setting, Norton Sound COST No. 2 well, by D. A. Steffy. p. 17-20

ALASKA. Seismic reflection correlation and velocity analysis, by D. A. Steffy. p. 21-38


ALASKA. Lithology and geophysical log interpretation, by J. G. Bolm. p. 58-59

ALASKA. Geochemistry; Norton Sound COST well No. 2, by T. O. Flett, and David Blunt. p. 99-120

ALASKA. Environmental considerations, by Paul Lowry. p. 121-131

OF 83-0559. CALIFORNIA. Estimated oil and gas reserves, Southern California outer continental shelf, by R. S. Ballantine. 10 p. (NC, Da, M, Db, U, LA, SF, T.)

OF 83-0561. TEXAS, LOUISIANA. Land use and land cover and associated maps for Palestine, Texas; Louisiana. Lat 31° to 32°, long 94° to 96°. This data set consists of two maps key to USGS topographic map Palestine at 1:250,000 (1 inch = about 4 miles). This map is coded for statistical data development. These maps are (1) land use and land cover, (4) census county subdivision. Also included is one copy of the cultural base for Palestine at 1:250,000. (USGS, Rocky Mountain Mapping Ctr. (NCIC-R), Box 25046, Federal Center, Denver, CO 80225.)

OF 83-0563. CALIFORNIA. An oilspill risk analysis for the Southern California lease offering (February 1984), by R. P. LaBelle, K. J. Lanfear, A. D. Banks, and R. M. Karpas. 117 p. (Da, M, NC, A.)
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OF 83-0591. OREGON. Preliminary geologic map of the west half of the Vancover (Washington-Oregon) 1° by 2° Quadrangle, Oregon, by R. E. Wells, A. R. Niem, N. S. MacLeod, P. D. Snively, Jr., and W. A. Niem. 1 over-size sheet, scale 1:250,000 (1 inch = about 4 miles). (NC, Da, M, SF, LA; Oregon Dept. Geol. and Mineral Industries, Room 1069, State Office Bldg., 1400 SW. Fifth Ave., Portland, OR 97201.)

OF 83-0592. ALASKA. Eastern Gulf of Alaska seismicity; final report to the National Oceanic and Atmospheric Administration for July 1, 1975, through September 30, 1981, by J. C. Lahr, and C. D. Stephens. 51 p. (NC, Da, M, A, SF, LA; USGS, Room 207, O'Neill Bldg., Univ. Alaska (P.O. Box 80586), Fairbanks, AK 99708; Alaska Div. Geol. and Geophy. Surveys, 3001 Porcupine Dr., Anchorage, AK 99501; and University Ave. (P.O. Box 80007), Fairbanks, AK 99708.)

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OF 83-0633. COLORADO. Geologic map and coal sections of the Pine Ridge Quadrangle. Moffat County, Colorado, by G. L. Prost, and M. E. Brownfield. 2 over-size sheets. (NC, Da, M, U, Db.)

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OF 83-0639. Reconnaissance geologic map of the Jabal Zain Quadrangle, sheet 20/44 A, Kingdom of Saudi Arabia, by M. R. Brock. 1 over-size sheet, scale 1:100,000 (1 inch = about 1.6 miles). (NC, Da, M.)


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OF 83-0644. CALIFORNIA. Chemical analyses and statistical summaries for samples of rock, minus-60-mesh (0.25-mm) stream sediment, and nonmagnetic heavy-mineral concentrate, Pyramid Roadless Area, El Dorado County, California, by M. A. Chaffee, D. L. Fey, D. J. Grimes, and R. W. Leinz. 28 p., 1 over-size sheet, scale 1:62,500 (1 inch = about 1 mile). (NC, Da, M, SF, LA; California Div. Mines and Geol., Room 1341, Resources Bldg., 1416 Ninth St., Sacramento, CA 95814; Ferry Bldg., San Francisco, CA 94111; and State Office Bldg., 107 South Broadway, Los Angeles, CA 90012.)

OF 83-0646. CALIFORNIA. Chemical analyses and statistical summaries for samples of rock, minus-60-mesh (0.25-mm) stream sediment, and nonmagnetic heavy-mineral concentrate, Mount Raymond Roadless Area, Madera County, California, by S. J. Sutley, M. A. Chaffee, D. L. Fey, and R. H. Hill. 25 p., 1 over-size sheet, scale 1:62,500 (1 inch = about 1 mile). (NC, Da, M, SF, LA; California Div. Mines and Geol., Room 1341, Resources Bldg., 1416 Ninth St., Sacramento, CA 95814; Ferry Bldg., San Francisco, CA 94111; and State Office Bldg., 107 South Broadway, Los Angeles, CA 90012.)
OF 83-0647. CALIFORNIA, NEVADA. Chemical analyses and statistical summaries for samples of rock, minus-60-mesh (0.25-mm) stream sediment, and nonmagnetic heavy-mineral concentrate. Sweetwater Roadless Area, Mono County, California, and Lyon and Douglas counties, Nevada, by S. J. Sutley, M. A. Chaffee, G. F. Brem, D. L. Fey, and R. H. Hill. 47 p., 1 over-size sheet, scale 1:62,500 (1 inch = about 1 mile). (NC, Da, M, SF, LA, U; California Div. Mines and Geol., Room 1341, Resources Bldg., 1416 Ninth St., Sacramento, CA 95814; Ferry Bldg., San Francisco, CA 94111; and State Office Bldg., 107 South Broadway, Los Angeles, CA 90012; Nevada Bur. Mines and Geol., Univ. Nevada, Reno, NV 89557.)

OF 83-0649. CALIFORNIA. Chemical analyses and statistical summaries for samples of rock, minus-60-mesh (0.25-mm) stream sediment, and nonmagnetic heavy-mineral concentrate, Horse Meadow, Log Cabin-Saddlebag, and Tioga Lake Roadless Areas, and Hall Natural Area, Mono County, California, by S. J. Sutley, M. A. Chaffee, D. L. Fey, and R. H. Hill. 27 p., 1 over-size sheet, scale 1:62,500 (1 inch = about 1 mile). (NC, Da, M, SF, LA; California Div. Mines and Geol., Room 1341, Resources Bldg., 1416 Ninth St., Sacramento, CA 95814; Ferry Bldg., San Francisco, CA 94111; and State Office Bldg., 107 South Broadway, Los Angeles, CA 90012.)

OF 83-0651. COLORADO. Geochemical and mineralogical data for altered rocks and soils collected in and near the Williams Fork and St. Louis Peak Roadless Areas, Clear Creek, Grand, and Summit counties, Colorado, by R. G. Eppinger, H. N. Barton, P. K. Theobald, and R. R. Carlson. 25 p., 3 over-size sheets, scale 1:50,000 (1 inch = about 4,200 feet). (NC, Da, M, U, Db.)

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OF 83-0653. CALIFORNIA, NEVADA. Aeromagnetic map of the Eureka and Saline valleys area, California and Nevada. 1 over-size sheet, scale 1:250,000 (1 inch = about 4 miles). (NC, Da, M, SF, LA, Db, U; California Div. Mines and Geol., Room 1341, Resources Bldg., 1416 Ninth St., Sacramento, CA 95814; Ferry Bldg., San Francisco, CA 94111; and State Office Bldg., 107 South Broadway, Los Angeles, CA 90012; Nevada Bur. Mines and Geol., Univ. Nevada, Reno, NV 89557.)

OF 83-0654. CALIFORNIA, NEVADA. Aeromagnetic map of the northern part of the Inyo National Forest, California and Nevada. 1 over-size sheet, scale 1:250,000 (1 inch = about 4 miles). (NC, Da, M, SF, LA, Db, U; California Div. Mines and Geol., Room 1341, Resources Bldg., 1416 Ninth St., Sacramento, CA 95814; Ferry Bldg., San Francisco, CA 94111; and State Office Bldg., 107 South Broadway, Los Angeles, CA 90012; Nevada Bur. Mines and Geol., Univ. Nevada, Reno, NV 89557.)

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OF 83-0683. MISSISSIPPI, LOUISIANA. Floods of April 1983 in southern Mississippi and southeastern Louisiana, by D. D. Carlson and G. D. Firda. 37 p., 2 over-size sheets. (Da, NC, Wb; USGS, WRD, 6554 Florida Blvd. (P.O. Box 66492), Baton Rouge, LA 70896; USGS, WRD, Suite 710, Federal Bldg., 100 West Capital St., Jackson, MS 39269.)


OF 83-0688. UTAH. Ground-water hydrology and projected effects of ground-water withdrawals in the Sevier Desert, Utah, by W. F. Holmes. 54 p., 1 over-size sheet. (NC, Da, M, Wb; USGS, WRD, Room 1016, Administration Bldg., 1745 West 1700 South, Salt Lake City, UT 84104.)


OF 83-0693. COLORADO. Streamflow statistical summaries for Colorado streams through September 30, 1975; Volume 3, Colorado River basin from Gunnison River to San Juan River, by H. E.Petsch, Jr. 439 p. (Db, Da, NC, Wb; USGS, WRD, Room H-2103, Bldg. 53 (Box 25046, Mail Stop 415), Denver Federal Ctr., Denver, CO 80225.)


OF 83-0699. Geologic and hydrologic characterization and evaluation of the Basin and Range Province relative to the disposal of high-level radioactive waste; Part II, Geologic and hydrologic characterization, by K. A. Sargent, and M. S. Bedinger. 92 p., 1 over-size sheet. (NC, Da, M, Wb.)


OF 83-0703. COLORADO, NEW MEXICO, ARIZONA. Description of slides showing aeromagnetic and gravity data for regional mineral exploration in Colorado, New Mexico, and Arizona, by D. P. Klein. 18 p., 1 over-size sheet. (NC, Da, M, Db, SF, LA, U, T; Arizona Bur. Geol. and Mineral Tech., 845 North Park Ave., Tucson, AZ 85719; New Mexico Bur. Mines and Mineral Resources, Campus Station, Socorro, NM 87801.) (Color slides are available in Open-file report 83-443.)


OF 83-0705. IDAHO. Analyses of samples from the Lava Creek mining district, Blaine and Butte counties, Idaho, by B. M. Hillier, D. J. Grimes, Robert Vaughn, Belinda Arbogast, and Christine McDougal. 12 p., 1 over-size sheet, scale 1:24,000 (1 inch = 2,000 feet). (NC, Da, M, SF, U; Idaho Bur. Mines and Geol., Moscow, ID 83843.)

OF 83-0706. ALASKA. Ice gouge data sets from the Alaskan Beaufort Sea; magnetic tape and documentation for computer assisted analyses and correlation, by D. M. Rearsic, and A. G. McHendrie. 10 p. (NC, Da, M, A, S, SF, LA; USGS, Room 207, O'Neill Bldg., Univ. Alaska (P.O. Box 80586), Fairbanks, AK 99708; Alaska Div. Geol. and Geophys. Surveys, 3001 Porcupine Dr., Anchorage, AK 99501; and University Ave. (P.O. Box 80007), Fairbanks, AK 99708.)

OF 83-0707. ALASKA. Supplement resource report for OCS lease sale No. 83, Navarin Basin, Alaska, by M. S. Marlow, A. K. Cooper, P. R. Carlson, H. A. Karl, and B. A. Edwards. 46 p. (NC, Da, M, A, S, SF, LA; USGS, Room 207, O'Neill Bldg., Univ. Alaska (P.O. Box 80586), Fairbanks, AK 99708; Alaska Div. Geol. and Geophys. Surveys, 3001 Porcupine Dr., Anchorage, AK 99501; and University Ave. (P.O. Box 80007), Fairbanks, AK 99708.)

OF 83-0708. CALIFORNIA. Data report for the August 1982 seismic-refraction experiment in the Mono Craters-Long Valley region, California, by P. J. Meador, and D. P. Hill. 55 p., 12 over-size sheets, scale 1:250,000 (1 inch = about 4 miles). (NC, Da, M, SF, LA; California Div. Mines and Geol., Room 1341, Resources Bldg., 1416 Ninth St., Sacramento, CA 95814; Ferry Bldg., San Francisco, CA 94111; and State Office Bldg., 107 South Broadway, Los Angeles, CA 90012.)
OF 83-0783. ALASKA. Geochronology, geochemistry and tectonic environment of porphyry mineralization in the central Alaska Peninsula, by F. H. Wilson, and D. P. Cox. 25 p. (NC, Da, M, A, S, SF, LA; USGS, Room 207, O'Neill Bldg., Univ. Alaska (P.O. Box 80586), Fairbanks, AK 99708; Alaska Div. Geol. and Geophys. Surveys, Frontier Bldg., 3601 C St., Anchorage, AK 99503 (Mail address: Pouch 7-028, Anchorage, AK 99501); and 794 University Ave., Fairbanks, AK 99701.)

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OF 82-0003. WASHINGTON. Land use and land cover and associated maps for Ritzville, Washington. Lat 47° to 48°, long 118° to 120°. This data set consists of one map keyed to USGS topographic map Ritzville at 1:250,000 (1 inch = about 4 miles). This map is coded for statistical data development. The map is (1) land use and land cover. Also included is one positive of the cultural base for Ritzville. (USGS Western Mapping Ctr., (NCIC-W), 345 Middlefield Rd., Menlo Park, CA 94025.)

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OF 82-0804. UTAH. Land use and land cover and associated maps for Richfield, Utah. Lat 38° to 39°, long 112° to 114°. This data set consists of 2 maps keyed to the USGS topographic map Richfield at 1:250,000 (1 inch = about 4 miles). These maps are coded for statistical data development. These maps are (1) land use and land cover and (3) hydrologic units. Also included is one copy of the cultural base for Richfield at 1:250,000. (USGS, Rocky Mountain Mapping Ctr. (NCIC-R), Box 25046, Federal Center, Denver, CO 80225.)

OF 82-0805. TEXAS. Land use and land cover and associated maps for Tyler, Texas. Lat 32° to 33°, long 94° to 96°. This data set consists of one map keyed to USGS topographic map Tyler at 1:250,000 (1 inch = about 4 miles). This map is coded for statistical data development. The map is (1) land use and land cover. Also included is one positive of the cultural base for Tyler at 1:250,000. (USGS, Rocky Mountain Mapping Ctr. (NCIC-R), Box 25046, Federal Center, Denver, CO 80225.)

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OF 83-0107. ARIZONA. Land use and land cover and associated maps for Williams, Arizona. Lat 35° to 36°, long 112° to 114°. This data set consists of one map keyed to USGS topographic map Williams at 1:250,000 (1 inch = about 4 miles). This map is coded for statistical data development. The map is (1) land use and land cover. Also included is one positive of the cultural base for Williams at 1:250,000. (USGS, Western Mapping Ctr. (NCIC-W), 345 Middlefield Rd., Menlo Park, CA 94023.)

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OF 83-0111. NEVADA. Land use and land cover and associated maps for Lovelock, Nevada. Lat 40° to 41°, long 118° to 120°. This data set consists of one map keyed to USGS topographic map Lovelock at 1:250,000 (1 inch = about 4 miles). This map is coded for statistical data development. The map is (1) land use and land cover. Also included is one positive of the cultural base for Lovelock at 1:250,000. (USGS, Rocky Mountain Mapping Ctr. (NCIC-R), Box 25046, Federal Central, Denver, CO 80225.)

OF 83-0112. WYOMING, MONTANA. Land use and land cover and associated maps for Sheridan, Wyoming; Montana. Lat 44° to 45°, long 106° to 108°. This data set consists of 3 maps keyed to the USGS topographic map Sheridan at 1:250,000 (1 inch = about 4 miles). These maps are coded for statistical data development. These maps are (1) land use and land cover, (2) political units, (3) hydrologic units. Also included is one copy of the cultural base for Sheridan at 1:250,000. (USGS, Rocky Mountain Mapping Ctr. (NCIC-W), 345 Middlefield Rd., Menlo Park, CA 94023.)

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OF 82-0766. 1983 Water Quality Laboratory services catalog, by W. A. Beetem, G. R. Peryman, E. R. Anthony, and L. C. Friedman. 180 p. (NC; Quality of Water Branch, National Ctr., Mail Stop 412, 12201 Sunrise Valley Dr., Reston, VA 22092.) †A limited number of copies of this report are available from USGS, Quality of Water Branch, National Ctr., Mail Stop 412, 12201 Sunrise Valley Dr., Reston, VA 22091.) (Supersedes Open-file report 81-1016.)

OF 82-0903. GEORGIA. Hydrogeology of the Providence Aquifer of Southwest Georgia, by J. S. Clarke, R. E. Faye, and R. Brooks. 49 p. (NC; USGS, WRD, 6481 Peachtree Industrial Blvd., Suite B, Doraville, GA 30360.) †A limited number of copies of this report are available from Georgia Geol. Survey, 19 Martin Luther King, Jr. Dr., SW., Room 400, Agricultural Bldg., Atlanta, GA 30334.


OF 82-1005. INDIANA, ILLINOIS. Hydrology of area 30, eastern region, Interior Coal Province, Indiana and Illinois, by D. J. Wangness and others. 82 p. (NC, Da, M; USGS, WRD, 6023 Guion Rd., Suite 201, Indianapolis, IN 46254; USGS, WRD, Champaign County Bank Plaza, 102 East Main St., Fourth Floor, Urbana, IL 61801.) †A limited number of copies of this report are available from USGS, WRD, 6023 Guion Rd., Suite 201, Indianapolis, IN 46254.

OF 82-1008. MISSOURI. Preliminary investigation of ground-water occurrences in the Weldon Spring area, St. Charles County, Missouri, by C. M. Roberts, with further notes by C. V. Theis. 36 p. (NC, USGS, WRD, Room 720, 505 Marquette, NW., Albuquerque, NM 87102.) †A limited number of copies of this report are available from USGS, WRD, Room 720, 505 Marquette, NW., Albuquerque, NM 87102.

OF 82-1009. ARIZONA. Annual summary of ground-water conditions in Arizona, spring 1981 to spring 1982. 2 over-size sheets. (NC, M, Da; USGS, WRD, Room 5-A, Federal Bldg., 301 West Congress St., Tucson, AZ 85701; USGS, WRD, Suite 1800, Valley Ctr., Phoenix, AZ 85073; USGS, WRD, 2255 North Gemini Dr., Bldg. 3, Flagstaff, AZ 86001; USGS, WRD, 1940 South Third Ave., Yuma, AZ 85364.) †A limited number of copies of this report are available from USGS, WRD, Room 5-A, Federal Bldg., 301 West Congress St., Tucson, AZ 85701.

OF 83-0033. MARYLAND, PENNSYLVANIA. Hydrology of area 6, Eastern Coal Province, Maryland, West Virginia, and Pennsylvania, by W. W. Staubitz, and J. R. Sobashinski. 131 p. (NC, Da, M; USGS, WRD, 208 Carroll Bldg., 6800 La Salle Rd., Towson, MD 21204.) †A limited number of copies of this report are available from USGS, WRD, 208 Carroll Bldg., 6800 La Salle Rd., Towson, MD 21204. (Water-Resources Investigations.)

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OF 83-0146. COLORADO, WYOMING. Hydrology of area 54, Northern Great Plains and Rocky Mountain coal provinces, Colorado and Wyoming, by Gerhard Kuhn, P. D. Dad-dow, G. S. Craig, and others. 186 p. (NC, Da, M, Db, Wb; USGS, WRD, Room H-2103, Bldg. 53 (Box 25046, Mail Stop 415), Denver Federal Ctr., Denver, CO 80225.) †A limited number of copies of this report are available from USGS, WRD, Room H-2103, Bldg. 53 (Box 25046, Mail Stop 415), Denver Federal Ctr., Denver, CO 80225. (Water-Resources Investigations.)


Summary report of the workshop on Continuing actions to reduce losses from earthquakes in the Mississippi Valley, by W. W. Hays. p. 1-10

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The role of the engineering profession in earthquake mitigation, by A. J. Schiffer. p. 100-101

Forms and functions of seismic safety organizations, by Claire Rubin, and P. L. Gori. p. 135-140

OF 83-0202. TEXAS. Index of surface-water stations in Texas, January 1983, by E. R. Carrillo, and H. D. Buckner. 24 p. (NC, Da, T, Wb; USGS, WRD, 649 Federal Bldg., 300 East Eighth St., Austin, TX 01.) †A limited number of copies of this report are available from USGS, WRD, 649 Federal Bldg., 300 East Eighth St., Austin, TX 78701.

OF 83-0396. Seismic-reflection data collected in the Baltimore Canyon and Cape Hatteras areas during 1982, Gyre cruise 82-G-10B, by B. A. McGregor. 5 p. (NC, Da, M.) Copies of those records can be purchased only from the National Geophysical Data Center. Write to NOAA, Code E64, 325 Broadway, Boulder, CO 80303. Telephone (303) 497-6338.

OF 83-0422. NEW JERSEY. High-resolution seismic profile and sidescan-sonar data collected during June 1980 offshore New Jersey, Whitefoot cruise 80-1, by C. E. McClennen. 5 p. (NC, Da, M.) Shipboard records of Whitefoot Cruise 80-1 can be inspected at USGS, Quissett Campus, Woods Hole, MA 02543. †Copies of these records can be purchased only from the National Geophysical Data Center. Write to NOAA, Code E64, 325 Broadway, Boulder, CO 80303. Telephone (303) 497-6338.

OF 83-0545. WYOMING, MONTANA. Hydrology of area 50, Northern Great Plains and Rocky Mountain coal provinces, Wyoming and Montana, by M. E. Lowry, and J. F. Wilson, Jr. 228 p. (NC, Da, M, Db, T, U, Wb; USGS, WRD (P.O. Box 1125), Cheyenne, WY 82003; Wyoming Geol. Survey, Univ. Wyoming (P.O. Box 3008, Univ. Station), Laramie, WY 82071.) †A limited number of copies of this report are available from USGS, WRD (P.O. Box 1125), Cheyenne, WY 82003. (Water-Resources Investigations.)

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OF 83-0673. Single-channel seismic-reflection data from the mid-Atlantic upper continental rise collected by R/V Gyre (cruise 82-G-10A), by J. M. Robb. 3 p., description of data collected. (NC, Da, M.) †Copies of those records can be purchased only from the National Geophysical Data Center. Write to NOAA, Code E64, 325 Broadway, Boulder, CO 80303. Telephone (303) 497-6338.
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GQ-1073. COLORADO. Geologic map of the Indian Hills Quadrangle, Jefferson County, Colorado, by Bruce Bryant, R. D. Miller, and G. R. Scott. 1973. Lat 39°30' to 39°37'30", long 105°07'30" to 105°15'. Scale 1:24,000 (1 inch = 2,000 feet). Sheet 33 by 38 inches. (Accompanied by 7-page text.) (Reprint.)

GQ-1559. ARIZONA. Geologic map of the Teapot Mountain Quadrangle, Pinal County, Arizona, by S. C. Creasey, D. W. Peterson, and N. A. Gambell. 1983. Lat 33°07'30" to 33°15', long 111° to 111°07'30". Scale 1:24,000 (1 inch = 2,000 feet). Sheet 34 by 50 inches. (Supersedes Open-file Report 75-314.)

GQ-1562. CONNECTICUT. Bedrock geologic map of the Putnam Quadrangle, Windham County, Connecticut, by H. R. Dixon. 1982. Lat 41°52'30" to 42", long 71°52'30" to 72". Scale 1:24,000 (1 inch = about 2,000 feet). Sheet 33 by 41 inches. (Supersedes Open-file report 76-271.)

GQ-1567. COLORADO. Geologic map of the Sable Quadrangle, Adams and Denver counties, Colorado, by R. M. Lindvall. 1983. Lat 39°45' to 39°52'30", long 104°45' to 104°52'30". Scale 1:24,000 (1 inch = 2,000 feet). Sheet 29 by 30 inches.


GQ-1571. CONNECTICUT, RHODE ISLAND. Bedrock geologic map of the East Killingly Quadrangle, Connecticut and Rhode Island, by G. E. Moore, Jr. 1983. Lat 41°45' to 41°52'30", long 71°45' to 71°52'30". Scale 1:24,000 (1 inch = about 2,000 feet). Sheet 33 by 41 inches.

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Maps on topographic or planimetric bases; various scales; show results of surveys using geophysical techniques, such as gravity, magnetic, seismic, or radioactivity, which reflect subsurface structures that are of economic or geologic significance. Many maps are correlated with the geology.

GP-0950. SOUTH CAROLINA. Aeromagnetic map of South Carolina, by Isidore Zietz, F. E. Riggles, and D. L. Daniels. 1982. Two sheets. Scale 1:250,000 (1 inch = about 4 miles). West half, lat about 32° to about 35°, long 81° to about 83°, sheet 37 by 61 inches; East half, lat about 32° to about 35°, long about 79° to 81°, sheet 39 by 61 inches. (Available unfolded only.)


GP-0955. Digital magnetic-anomaly map of central United States; description of major features, by T. G. Hildenbrand, R. P. Kucks, and R. E. Sweeney. 1983. Lat about 35° to about 45°, long about 75° to about 95°. Scale 1:2,500,000 (1 inch = about 40 miles). Sheet 33 by 57 inches.

GP-0956. Structural elements of the U.S. Atlantic margin delineated by second vertical derivative of aeromagnetic data, by J. C. Behrendt, and M. S. Grim. 1983. Lat 25° to 43°, long 65° to 82°. Scale 1:2,500,000 (1 inch = about 40 miles). Sheet 38 by 58 inches.

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Maps on planimetric or topographic bases; regular and irregular areas; a wide variety of format and subject matter. The series also include 7 1/2-minute quadrangle photogeologic maps on planimetric bases which show geology as interpreted from aerial photographs. Series also include maps of Mars and the Moon.

I-0325. OREGON. Geologic map of Oregon west of the 121st meridian. Prepared under the direction of F. G. Wells and compiled by D. L. Peck. 1961. Two sheets. Lat about 42" to about 46", long 121° to about 124°. Scale 1:500,000 (1 inch = about 8 miles). Sheet 1, 32 by 48 inches; sheet 2, 39 by 48 inches.

I-0360. COLORADO, UTAH. Geology, structure, and uranium deposits of the Moab Quadrangle, Colorado and Utah, compiled by P. L. Williams. 1964. Two sheets. Lat 38° to 39°, long 108° to 110°. Scale 1:250,000 (1 inch = about 4 miles). Sheet 1, 32 by 57 inches; sheet 2, 24 by 36 inches. (Reprint.)

I-0558. COLORADO. Geologic map of the Trinidad Quadrangle, south-central Colorado, by R. B. Johnson. 1969. Lat 37° to 38°, long 104° to 106°. Scale 1:250,000 (1 inch = about 4 miles). Sheet 27 by 47 inches. (Reprint.)

I-0591-A. UTAH. Geology of the Salina Quadrangle, Utah, compiled by P. L. Williams, and R. J. Hackman. 1971. Lat 38° to 39°, long 110° to 112°. Scale 1:250,000 (1 inch = about 4 miles). Sheet 31 by 55 inches. (Reprint.)

I-0591-B. UTAH. Structure and uranium deposits of the Salina Quadrangle, Utah, compiled by P. L. Williams, and R. J. Hackman. 1971. Lat 38° to 39°, long 110° to 112°. Scale 1:250,000 (1 inch = about 4 miles). Sheet 31 by 55 inches. (Reprint.)


I-0856-J. COLORADO. Well yields and chemical quality of water from water-table aquifers in the Greater Denver area, Front Range urban corridor, Colorado, by D. E. Hillier, P. A. Schneider, Jr., and E. C. Hutchinson. 1983. Two sheets. Lat 39°22'30" to 40°, long 104°37'30" to 105°22'30". Scale 1:100,000 (1 inch = about 1.6 miles). Sheet 1, 33 by 36 inches; sheet 2, 33 by 38 inches.


I-0961. Topographic map of Mars. 1976. Scale 1:25,000,000 (1 inch = about 400 miles). Sheet 36 by 41 inches. (Reprint.)

I-1033-I. UTAH. Bedrock geologic map of the Kaiparowits coal-basin area, Utah, by K. A. Sargent, and D. E. Hansen. 1982. Lat 37° to 38°, long 111° to 112°. Scale 1:125,000 (1 inch = about 2 miles.). Sheet 41 by 47 inches.

I-1033-J. UTAH. Geologic cross sections of the Kaiparowits coal-basin area, Utah, by D. J. Lidke, and K. A. Sargent. 1983. Two sheets. Scale 1:125,000 (1 inch = about 2 miles). Lat 37° to 38°, long 111° to 112°. Sheet 1, 41 by 42 inches; sheet 2, 28 by 34 inches.

I-1091-E. IDAHO, MONTANA, SOUTH DAKOTA, WYOMING. Map showing distribution, composition, and age of late Cenozoic volcanic centers in Idaho, western Montana, west-central South Dakota, and southwestern Wyoming, by R. G. Luedke, and R. L. Smith. 1983. Two sheets. Scale 1:1,000,000 (1 inch = about 16 miles). Sheet 1, lat 41° to 49°, long 104° to 117°, sheet 40 by 44 inches. Sheet 2, lat about 42°30' to about 45°15', long about 109°45' to about 114°, sheet 42 by 49 inches.

I-1127. IDAHO, WYOMING. Geologic map of the Preston 1° by 2° Quadrangle, southeastern Idaho and western Wyoming, by S. S. Oriel, and L. B. Platt. 1980. Lat 42° to 43°, long 110° to 112°. Scale 1:250,000 (1 inch = about 4 miles). Sheet 32 by 39 inches. (Reprint.)

I-1182-C. ALASKA. Map, cross sections, and chart showing late Quaternary faults, folds, and earthquake epicenters on the Alaskan Beaufort Shelf, by Arthur Grantz and D. A. Dinter, U.S. Geological Survey, and N. N. Biswas, Geophysical Institute, University of Alaska. 1983. Three sheets. Lat 69°05' to 73°, long 140° to 158°. Scale 1:500,000 (1 inch = about 8 miles). Sheet 1, 42 by 58 inches; sheet 2, 38 by 53 inches; sheet 3, 34 by 51 inches. (Accompanied by 7-page text.)

I-1198-B. WASHINGTON. Map showing potential sources of sand, gravel, and quarry rock, Port Townsend Quadrangle, Washington, by D. P. Dethier, and S. A. Saffiolo. 1983. Lat 48° to 48°30', long 122° to 123°. Scale 1:100,000 (1 inch = about 1.6 miles). Sheet 34 by 42 inches.

I-1235-C. UTAH. Map showing general availability of ground water in the Alton-Kolob coal fields area, Utah, by Don Price. 1982. Lat 37° to 38°, long 112° to about 113°15'. Scale 1:125,000 (1 inch = about 2 miles). Sheet 40 by 47 inches.
1-1319. IDAHO. Geologic map and sections of the central Pioneer Mountains, Blaine and Custer counties, central Idaho, by J. H. Dover. 1983. Two sheets. Lat 43°37'30" to 44°, long 114° to 114°22'30". Scale 1:48,000 (1 inch = 4,000 feet). Sheet 1, 41 by 49 inches; sheet 2, 33 by 39 inches.

1-1329. CALIFORNIA. Map showing recently active breaks along the Elsinore and associated faults, California, between Lake Henshaw and Mexico, by M. M. Clark. 1982. Two sheets. Scale 1:24,000 (1 inch = 2,000 feet). Lat 33°07'30" to 33°15', long about 115°52'30" to about 116°45'. Sheet 1, 38 by 50 inches; sheet 2, 39 by 50 inches.

1-1341. Controlled photomosaic of the Eridania Northwest Quadrangle of Mars. 1982. Scale 1:2,000,000 (1 inch = about 32 miles). Sheet 27 by 34 inches.

1-1346. COLORADO. Surficial geologic map of the Craig 1/2° by 1° Quadrangle, Moffat and Routt counties, Colorado, by R. F. Madole. 1982. Lat 40°30' to 41°, long 107° to 108°. Scale 1:100,000 (1 inch = about 1.6 miles). Sheet 28 by 59 inches.

1-1361. NEVADA. Map showing surficial geology of the Lahop Wells Quadrangle, Nye County, Nevada, by W. C. Swadley. 1983. Lat 36°30' to 36°45', long 116°15' to 116°30'. Scale 1:48,000 (1 inch = about 4,000 feet). Sheet 29 by 31 inches.

1-1369. CALIFORNIA. Geologic map of an area near York Mountains, San Luis Obispo County, California, by V. M. Seiders. 1982. Lat about 35°25' to 35°38'30", long 120°45' to 120°57'30". Scale 1:24,000 (1 inch = 2,000 feet). Sheet 40 by 56 inches.

1-1372. IDAHO, WYOMING. Surficial geologic map of the eastern Snake River Plain and adjacent areas, 111° to 115° west, Idaho and Wyoming, by W. E. Scott. 1982. Two sheets. Lat 42° to about 44°45', long 111° to 115°. Scale 1:250,000 (1 inch = about 4 miles). Sheet 1, 35 by 55 inches; sheet 2, 35 by 37 inches.

1-1375. MONTANA. Bedrock geologic map of part of the northern disturbed belt, Lewis and Clark, Teton, Pondera, Glacier, Flathead, Cascade, and Powell counties, Montana, by M. R. Mudge, and R. L. Earhart. 1983. Two sheets. Scale 1:1,250,000 (1 inch = about 2 miles). Sheet 1, lat about 48°15' to 49°, long 112° to 113°45', sheet 41 by 56 inches; sheet 2, lat 47° to 48°, long 112° to 113°45', sheet 40 by 54 inches.


1-1383. MONTANA. Geologic map of the banded upper zone of the Stillwater Complex and adjacent rocks, Stillwater, Sweet Grass, and Park counties, Montana, by Kenneth Segerstrom, and R. R. Charlson. 1982. Two sheets. Lat about 45°20' to about 45°30', long about 109°45' to about 110°17'30". Scale 1:24,000 (1 inch = 2,000 feet). Sheet 1, 37 by 44 inches; sheet 2, 32 by 39 inches.

1-1402. The properties and uses of selected map projections, by T. R. Alpha, and J. P. Snyder. 1982. Sheet 30 by 37 inches. (Reprint.)

1-1408. Geologic map of the Shakespeare Quadrangle of Mer­cury, by J. E. Guest, and Ronald Greete. 1983. Scale 1:5,000,-000 (1 inch = about 80 miles). Sheet 34 by 52 inches.


1-1411. WASHINGTON. Topographic map of Mount St. Helens, Washington, showing changes between April 11 and May 16, 1980, by Raymond Jordan, and H. H. Kieffer. 1982. Scale 1:10,000 (1 inch = about 833 feet). Sheet 33 by 43 inches.

1-1416. COLORADO. Geologic sections across Colorado, by Ogden Tweto. 1983. Lat about 37° to about 41°, long about 103° to about 109°. Scale 1:500,000 (1 inch = about 8 miles). Sheet 34 by 53 inches. Available flat or folded. When ordering, please specify.

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1-1418. Marine geologic map of the Puerto Rico insular shelf, northwestern area; Rio Grande de Anasco to Rio Camuy, by K. A. Grove. 1982. Lat 18°28' to 18°35', long 66°52'30" to 67°19'. Scale 1:40,000 (1 inch = about 3,333 feet). Sheet 41 by 48 inches.

1-1424. CALIFORNIA, NEVADA. Geologic map of the Fred Peak 15-minute Quadrangle, California and Nevada, by R. A. Armin and D. A. John, with Quaternary geology by J. C. Dohrenwend. 1983. Lat 38°45' to 39°, long 119°45' to 120°. Scale 1:62,500 (1 inch = about 1 mile). Sheet 32 by 43 inches.

1-1425. COLORADO. Geologic and structural maps and sections of the Marshall Pass mining district, Saguache, Gunnison, and Chaffee counties, Colorado, by J. C. Olson. 1983. Lat 38°20' to 38°30', long 106°15' to 106°22'30". Scale 1:24,000 (1 inch = 2,000 feet). Sheet 37 by 46 inches. (Supersedes Openfile report 79-1473.)

1-1426. Controlled photomosaic of the Amethysts Northeast Quadrangle of Mars. 1982. Scale 1:2,000,000 (1 inch = about 32 miles). Sheet 26 by 34 inches.

1-1430-A. UTAH. Geologic map of the Tuscar Mountains and adjoining areas, Marysvale volcanic field, Utah, by C. G. Cunningham, T. A. Steven, P. D. Rowley, L. B. Glassgold, and J. P. Snyder. 1983. Two sheets. Lat 38° to 38°30', long 112°30' to 113°. Scale 1:125,000 (1 inch = 2,000 feet). Sheet 42 by 57 inches. (Accompanied by 1-page text sheet.)

1-1432. Controlled photomosaic of the Casius Southeast Quadrangle of Mars. 1983. Scale 1:2,000,000 (1 inch = about 32 miles). Sheet 26 by 34 inches.
I-1443. ALASKA. Vegetation and land cover, Arctic National Wildlife Refuge, coastal plain, Alaska, by William Acevedo, Donald Walker, Leonard Gaydos, and James Wray. 1982. Lat 69°30' to about 70°, long about 143° to about 146°. Scale 1:250,000 (1 inch = about 4 miles). Sheet 14 by 28 inches.

I-1444. UTAH. Geologic map of the southwest-quarter of the Beaver Quadrangle, Beaver County, Utah, by M. N. Machette. 1983. Lat 38°22'30" to 38°30', long 112°37'30" to 112°45'. Scale 1:24,000 (1 inch = about 2,000 feet). Sheet 28 by 31 inches.

I-1445. UTAH. Geologic map of the northwest quarter of the Beaver Quadrangle, Beaver County, Utah, by M. N. Machette, and T. A. Steven. 1983. Lat 38°22'30" to 38°30', long 112°37'30" to 112°45'. Scale 1:24,000 (1 inch = about 2,000 feet). Sheet 28 by 31 inches.

I-1448. Shaded relief map of the Chryse Planitia region of Mars. 1982. Scale 1:5,000,000 (1 inch = about 80 miles). Sheet 39 by 47 inches.

I-1449. WYOMING. Engineering geologic map of the Sheridan Quadrangle, Sheridan County, Wyoming, by E. N. Hinrichs. 1983. Lat 44°45' to 44°52'30", long 106°52'30" to 107°. Scale 1:24,000 (1 inch EQ 2,000 feet). Sheet 29 by 40 inches.


I-1451. Controlled photomosaic of the Hellas Northeast Quadrangle of Mars. 1982. Scale 1:2,000,000 (1 inch = about 32 miles). Sheet 26 by 34 inches.

I-1452. Controlled photomosaic of the Hellas Northwest Quadrangle of Mars. 1982. Scale 1:2,000,000 (1 inch = about 32 miles). Sheet 26 by 34 inches.

I-1453. Controlled photomosaic of the Hellas Southeast Quadrangle of Mars. 1982. Scale 1:2,000,000 (1 inch = about 32 miles). Sheet 26 by 34 inches.

I-1454. Controlled photomosaic of the Hellas Southwest Quadrangle of Mars. 1982. Scale 1:2,000,000 (1 inch = about 32 miles). Sheet 26 by 34 inches.

I-1464. Controlled photomosaic of the Arabia Northeast Quadrangle of Mars. 1982. Scale 1:2,000,000 (1 inch = about 32 miles). Sheet 26 by 34 inches.

I-1465. Controlled photomosaic of the Arabia Southwest Quadrangle of Mars. 1982. Scale 1:2,000,000 (1 inch = about 32 miles). Sheet 26 by 34 inches.

I-1466. Controlled photomosaic of the Arabia Southeast Quadrangle of Mars. 1982. Scale 1:2,000,000 (1 inch = about 32 miles). Sheet 26 by 34 inches.

I-1467. Controlled photomosaic of the Arabia Northwest Quadrangle of Mars. 1982. Scale 1:2,000,000 (1 inch = about 32 miles). Sheet 26 by 34 inches.

I-1468. Controlled photomosaic of the Mare Tyrrenenum Northwest Quadrangle of Mars. 1982. Scale 1:2,000,000 (1 inch = about 32 miles). Sheet 26 by 34 inches.

I-1469. Controlled photomosaic of the Mare Tyrrenenum Northeast Quadrangle of Mars. 1982. Scale 1:2,000,000 (1 inch = about 32 miles). Sheet 26 by 34 inches.

I-1470. Controlled photomosaic of the Mare Tyrrenenum Southeast Quadrangle of Mars. 1982. Scale 1:2,000,000 (1 inch = about 32 miles). Sheet 26 by 34 inches.

I-1471. Controlled photomosaic of the Mare Tyrrenenum Southwest Quadrangle of Mars. 1982. Scale 1:2,000,000 (1 inch = about 32 miles). Sheet 26 by 34 inches.

I-1473. VIRGINIA. Ground-water resources of Fairfax County and vicinity, Virginia, and some aspects of their development, by Chester Zenone, and J. D. Larson. 1983. Lat about 38°45' to about 39°, long about 77°07'30" to about 77°30'. Scale 1:48,000 (1 inch = about 4,000 feet). Sheet 38 by 48 inches.

I-1476. Shaded relief map of the Mare Acidalium Quadrangle of Mars. 1982. Scale 1:5,000,000 (1 inch = about 80 miles). Sheet 32 by 34 inches.

I-1477. Shaded relief map of the Arcadia Quadrangle of Mars. 1982. Scale 1:5,000,000 (1 inch = about 80 miles). Sheet 32 by 34 inches.

I-1478. Shaded relief map of the Phoenicus Lacus Northwest Quadrangle of Mars. 1982. Scale 1:2,000,000 (1 inch = about 32 miles). Sheet 27 by 34 inches.


I-1486. Preliminary pictorial map of Iapetus. 1982. Scale 1:10,000,000 (1 inch = about 160 miles). Sheet 20 by 21 inches.


I-1495. Shaded relief map of the Ismenius Lacus Quadrangle of Mars. 1982. Scale 1:5,000,000 (1 inch = about 80 miles). Sheet 32 by 34 inches.

I-1497. Controlled photomosaic of the Aeolis Northeast Quadrangle of Mars. 1982. Scale 1:2,000,000 (1 inch = about 32 miles). Sheet 26 by 34 inches.


I-1521. Controlled photomosaic of the Cebrenia Northwest Quadrangle of Mars. 1983. Scale 1:2,000,000 (1 inch = about 32 miles). Sheet 26 by 34 inches.

I-1525. Controlled photomosaic of the Casius Southwest Quadrangle of Mars. 1983. Scale 1:2,000,000 (1 inch = about 32 miles). Sheet 26 by 34 inches.

COAL INVESTIGATIONS MAPS
Geologic maps on topographic or planimetric bases; various scales; show bedrock geology, stratigraphy, and structural relations in certain coal-resource areas.
C-0092-A. NEW MEXICO. Geologic map of the Chaco Canyon 30' by 60' Quadrangle, showing coal zones of Fruitland Formation, San Juan, Rio Arriba, and Sandoval counties, New Mexico, by J. W. Myton. 1983. Lat 36° to 36°30', long 107° to 108°. Scale 1:100,000 (1 inch = about 1.6 miles). Sheet 28 by 45 inches.

C-0093-A. UTAH. Stratigraphic framework and coal resources of the Upper Cretaceous Blackhawk Formation in the Johns Peak and Old Woman Plateau areas of the Wasatch Plateau coal field, Salina 30' by 60' Quadrangle, Sevier County, Utah, by J. D. Sanchez, L. F. Blanchard, and L. L. August. 1983. Two sheets. Lat 38°40' to 38°52'30", long 111°22'30" to 111°32'30". Scale 1:24,000 (1 inch = about 2,000 feet). Sheet 1, 42 by 57 inches; sheet 2, 40 by 55 inches.

C-0093-B. UTAH. Stratigraphic framework and coal resources of the Upper Cretaceous Blackhawk Formation in the Convul­sion Canyon and Wash Rock Canyon areas of the Wasatch Plateau coal field, Salina 30' by 60' Quadrangle, Sevier and Emery counties, Utah, by J. D. Sanchez, L. F. Blanchard, and L. L. August. 1983. Three sheets. Lat 38°52'30" to 39°, long 111°15' to about 111°30'. Scale 1:24,000 (1 inch = 2,000 feet). Sheet 1, 34 by 44 inches; sheet 2, 40 by 52 inches; sheet 3, 33 by 44 inches.

C-0094-A. UTAH. Stratigraphic framework and coal resources of the Upper Cretaceous Blackhawk Formation in the Muddy Creek and Nelson Mountain areas of the Wasatch Plateau coal field, Manti 30' by 60' Quadrangle, Emery, Sevier, and Sanpete counties, Utah, by J. D. Sanchez, and T. L. Brown. 1983. Two sheets. Lat 39° to 39°07'30", long 110°10' to 111°32'30". Scale 1:24,000 (1 inch = 2,000 feet). Sheet 1, 35 by 56 inches; sheet 2, 32 by 41 inches.

OIL AND GAS INVESTIGATIONS CHARTS
Charts show stratigraphic information for certain oil and gas fields and other areas having hydrocarbon potential.

OC-0118. NEW MEXICO, COLORADO, UTAH, ARIZO­NA. Stratigraphic sections of subsurface Jurassic rocks in the San Juan Basin, New Mexico, Colorado, Utah, and Arizona, by Robert Lupe. 1983. Two sheets. Lat 35° to 38°, long 106° to 110°. Sheets 42 by 58 inches.

OC-0119. UTAH. Stratigraphic diagram of Middle Jurassic San Rafael Group and associated formations from the San Rafael Swell to Bluff in southeastern Utah, by R. B. O'Sullivan, and F. W. Pierce. 1983. Lat about 37° to about 39°, long about 110° to about 111°. Sheet 34 by 41 inches.


OC-0123. VIRGINIA. Interpretive seismic profile along inter­state I-64 from the Valley and Ridge to the coastal plain in central Virginia, by L. D. Harris, Wallace de Witt, Jr., and K. C. Bayer. 1982. Sheet 35 by 48 inches.

MISCELLANEOUS FIELD STUDIES MAPS
Multicolor or black and white maps on topographic or planimetric bases; quadrangle or irregular areas; various scales. Pre-1971 maps show bedrock geology in relation to specific mining or mineral-deposit problems; post-1971 maps are preliminary black and white maps on various subjects such as environmental studies or Wilderness mineral investigations. Unless otherwise indicated these maps are printed in a very limited edition; therefore, no automatic distribution will be made.


MF-0637. UTAH. Preliminary geologic map of the Wah Wah Summit Quadrangle, Millard and Beaver counties, Utah, by L. F. Hintze. 1974. Two sheets. Lat 38°30' to 38°45', long 113°30' to 113°45'. Scale 1:48,000 (1 inch = 4,000 feet). Sheet 1, 22 by 37 inches; sheet 2, 26 by 34 inches. (Reprint.)


MF-0709. CALIFORNIA. Maps showing maximum earthquake intensity predicted in the southern San Francisco Bay region, California, for large earthquakes on the San Andreas and Hayward faults, by R. D. Borcherdt, J. F. Gibbs, and K. R. Lajoie. 1975. Three sheets. Lat about 37°15' to 37°52'30", long about 121°45' to 122°37'30". Scale 1:125,000 (1 inch = about 2 miles). Sheet 1, 25 by 33 inches; sheet 2, 38 by 39 inches; sheet 3, 37 by 38 inches. (Accompanied by 11-page text.) (Reprint.)

MF-0743. CALIFORNIA. Map showing recently active breaks along the Green Valley Fault, Napa and Solano counties, California, by V. A. Frizzell, Jr., and R. D. Brown, Jr. 1976. Lat about 38°05' to about 38°22'30", long about 122°07'30" to about 122°10'0". Scale 1:24,000 (1 inch = 2,000 feet). Sheet 37 by 51 inches. (Reprint.)


MF-0873. CALIFORNIA, NEVADA. Map showing mineral exploration potential in the Death Valley Quadrangle, California and Nevada, compiled by R. M. Smith. 1977. Lat 36° to 37°, long 116° to 118°. Scale 1:250,000 (1 inch = about 4 miles). Sheet 24 by 37 inches. (Reprint.)

MF-0900-C. NEW MEXICO. Map showing anomalous silver distribution in stream sediment concentrates, Hillsboro and San Lorenzo quadrangles, exclusive of the Black Range Primitive Area, Sierra and Grant counties, New Mexico, by H. V. Alaminas, K. C. Watts, D. F. Siems, and V. E. Kraxberger. 1978. Lat 32°45' to 33°, long 107°30' to 108°. Scale 1:48,000 (1 inch = 4,000 feet). Sheet 32 by 48 inches. (Reprint.)
MF-1102-J. MISSOURI. Isopach and selected lithofacies map of the Cambrian Bonnetteer Formation, Rolla 1° by 2° Quadrangle, Missouri, by K. H. Anderson, Missouri Division of Geology and Land Survey. 1983. Lat 37° to 38°, long 90° to 92°. Scale 1:250,000 (1 inch = about 4 miles). Sheet 23 by 39 inches.

MF-1004-B. MISSOURI. Generalized geologic and geochemical maps of the Cambrian Bonnetteer Formation, Rolla 1° by 2° Quadrangle, Missouri, by R. L. Erickson, E. L. Mosier, J. G. Viets, and S. C. King. 1979. Lat 37° to 38°, long 90° to 92°. Scale 1:500,000 (1 inch = about 8 miles). Sheet 37 by 40 inches. (Reprint.)

MF-1044-A. Map of prospective hydrocarbon provinces of the world, by A. B. Coury, T. A. Hendrickers, and T. F. Tyler. 1978. Scale 1:20,000,000 (1 inch = about 320 miles). Sheet 41 by 44 inches. (Reprint.)

MF-1070. CALIFORNIA. Preliminary map showing recency of faulting in coastal north-central California. 1979. Three sheets. Scale 1:250,000 (1 inch = about 4 miles). Sheet 1, lat about 38° to 39°, long about 121° to 122°. Sheet 2, lat about 37° to 38°, long 121°15' to 122°45'. Sheet 3, lat about 37° to 39°, long 124° to 126°. (Accompanied by 13-page text.) (Reprint.)

MF-1107. CALIFORNIA. Preliminary map showing recency of faulting in coastal north-central California, by E. H. Pampyan. 1979. Three sheets. Lat about 37° to 39°, long about 121° to 123°45'. Sheet 1, lat about 37° to 37°45', long about 121° to 122°45'; sheet 2, lat about 37° to 38°, long 121°15' to 122°45'; sheet 3, lat about 37° to 39°, long about 121° to 124°. (Accompanied by 13-page text.) (Reprint.)


MF-1144. KENTUCKY. Seismicity map of the State of Kentucky, by C. W. Stover, B. G. Reagor, and S. T. Algermissen. 1979. Lat about 37° to about 39°, long 82° to about 89°. Scale 1:1,000,000 (1 inch = about 16 miles). Sheet 28 by 31 inches. (Reprint.)

MF-1154. ARKANSAS. Seismicity map of the State of Arkansas, by C. W. Stover, B. G. Reagor, and S. T. Algermissen. 1979. Lat about 38° to about 36°, long about 90° to about 94°. Scale 1:1,000,000 (1 inch = about 16 miles). Sheet 30 by 33 inches. (Reprint.)


MF-1162. ARIZONA. Map showing distribution of minerals in the heavy-mineral concentrate of stream sediments in the Sierra Ancha Wilderness and Salome Study Area, Gila County, Arizona, by R. B. Tripp, H. N. Barton, J. C. Negri, and P. K. Theobald. 1980. Lat 33°45' to 34°, long 110°45' to 111°07'30". Scale 1:62,500 (1 inch = about 1 mile). Sheet 30 by 32 inches.


MF-1163. COLORADO, UTAH, WYOMING. Geologic map of the Vernal 1° by 2° Quadrangle, Colorado, Utah and Wyoming, compiled by P. D. Rowley, Ogden Tweto, W. R. Hansen, and P. E. Carrara. 1979. Lat 40° to 41°, long 108° to 110°. Scale 1:250,000 (1 inch = about 4 miles). Sheet 33 by 47 inches. (Reprint.)

MF-1177-C. CALIFORNIA. Mineral resource potential map of the North Fork of the American River Wilderness Study Area (RARE II No. 5-262), Placer County, California, by D. S. Harwood and Andrew Griscom, U.S. Geological Survey, and F. E. Federspiel, A. M. Leszczewski and F. A. Spicker, U.S. Bureau of Mines. 1982. Lat about 39°05' to about 39°20', long about 120°20' to about 120°50'. Scale 1:62,500 (1 inch = about 1 mile). Sheet 25 by 32 inches. (Accompanied by 7-page text.) (Reprint.)

MF-1188. KENTUCKY. Correlation of coal beds, coal zones, and key stratigraphic units in the Pennsylvanian rocks of eastern Kentucky, by C. L. Rice, and J. H. Smith. 1980. Sheet 37 by 38 inches. (Reprint.)
MF-1198. UTAH. Surficial geologic map along part of the Wasatch Front, Salt Lake valley, Utah, compiled by R. D. Miller. 1980. Two sheets. Sheet 1, lat about 41°15' to 41°45', long 111°45' to about 112°15'. Sheet 2, lat 40°30' to about 41°, long 111°45' to about 112°15'. Scale 1:100,000 (1 inch = about 1.6 miles). Sheets 31 by 39 inches. (Accompanied by 13-page text.) (Reprint.)

MF-1201-C. CALIFORNIA. Geochemical maps showing distributions of anomalous element concentrations and of anomalous drainage basins, Mokelumne Wilderness and contiguous roadless areas, central Sierra Nevada, California, by M. A. Chaffee, R. H. Hill, and S. J. Sutley. 1983. Two sheets. Lat about 38°25' to 39°, long 119°45' to 120°15'. Scale 1:62,500 (1 inch = about 1 mile). Sheet 1, 32 by 43 inches; sheet 2, 32 by 39 inches.

MF-1225. SOUTH CAROLINA. Seismicity map of the State of South Carolina, by B. G. Reagor, C. W. Stover, and S. T. Algermissen. 1980. Lat about 32° to about 35°, long about 79° to about 83°. Scale 1:1,000,000 (1 inch = about 16 miles). Sheet 31 by 39 inches. (Reprint.)

MF-1231-B. CALIFORNIA. Geochemical map showing anomalous concentrations of selected elements in the nonmagnetic heavy-mineral concentrates from the Golden Trout Wilderness, California, by D. L. Leach, R. J. Goldfarb, and J. A. Domenico. 1983. Lat 36°05' to 36°30', long 118° to 118°45'. Scale 1:62,500 (1 inch = about 1 mile). Sheet 1, 32 by 43 inches; sheet 2, 32 by 39 inches.

MF-1238. WASHINGTON. Map showing some potential effects of petroleum spills on shorelines of the Port Townsend Quadrangle, central Puget Sound region, Washington, by R. F. Keuler. 1982. Lat 48° to 48°30', long 122° to 123°. Scale 1:100,000 (1 inch = about 1.6 miles). Sheet 38 by 43 inches.

MF-1240-D. OREGON. Maps showing aeromagnetic data and interpretation for the Kalmiopsis Wilderness, southwestern Oregon, by R. J. Blakely, N. J. Page, Floyd Gray, Lisa Senior, and H. F. Ryan. 1983. Two sheets. Lat 42° to 42°30', long 123°45' to 124°15'. Scale 1:62,500 (1 inch = about 1 mile). Sheet 1, 29 by 50 inches; sheet 2, 42 by 43 inches.

MF-1269. Index of faults of Cretaceous and Cenozoic age in the Eastern United States, by D. C. Prowell. 1983. Two sheets. Lat about 24° to about 47°, long about 66° to about 93°. Scale 1:2,500,000 (1 inch = about 40 miles). Sheet 1, 33 by 47 inches; sheet 2, 38 by 45 inches.


MF-1280. PENNSYLVANIA. Seismicity map of the State of Pennsylvania, by C. W. Stover, B. G. Reagor, and S. T. Algermissen. 1981. Lat about 40° to about 42°, long about 75° to about 80°. Scale 1:1,000,000 (1 inch = about 16 miles). Sheet 28 by 36 inches. (Reprint.)

MF-1287-B. SOUTH CAROLINA, NORTH CAROLINA, GEORGIA. Mineral resource potential map of the Ellicott Rock Wilderness and additions, South Carolina, North Carolina, and Georgia, by Henry Bell, III, and R. W. Luce. 1983. Lat about 34°55' to about 35°02'30", long about 83°02'30" to about 83°10'. Scale 1:48,000 (1 inch = 4,000 feet). Sheet 31 by 41 inches.


MF-1319-B. UTAH. Mineral resource potential map of the Box-
Death Hollow Roadless Area, Garfield County, Utah, by G.
of Mines. 1983. Lat about 37° to 38°, long 111°22’33” to
111°45’. Scale 1:48,000 (1 inch = 4,000 feet). Sheet 27 by 33
inches. (Accompanied by 9-page text.)

MF-1322-B. CALIFORNIA. Aeromagnetic and gravity maps
of the Freel and Dardanelles Roadless Areas, Alpine and El
Dorado counties, California, by Donald Plouff. 1983. Lat
38°40’ to 38°55’, long 119°50’ to 120°10’. Scale 1:62,500 (1 inch
= about 1 mile). Sheet 25 by 42 inches.

MF-1322-C. CALIFORNIA. Mineral resource potential map
of the Freel and Dardanelles Roadless Areas, Alpine and El
Dorado counties, California, by D. A. John, R. A. Armin,
Donald Plouff, and M. A. Chaffee, U.S. Geological Survey,
and T. J. Peters, D. F. Scott, F. E. Federspiel, E. E. Cather,
to 38°55’, long 119°50’ to 120°10’. Scale 1:62,500 (1 inch
= about 1 mile). Sheet 27 by 34 inches. (Accompanied by 6-page
text.)

MF-1323. MINNESOTA. Seismicity map of the State of Min-
1981. Lat about 44° to about 49°, long about 90° to about 97°.
Sheet 1:1,000,000 (1 inch = about 16 miles). Sheet 28 by 38
inches. (Reprint.)

MF-1339-B. MISSOURI. Mineral resource potential map of
the Rock Pile Mountain Wilderness Study Area, Madison Coun-
ty, Missouri, by W. P. Pratt and R. L. Erickson, U.S. Geologi-
Lat about 37°25’ to about 37°27’30”, long about 90°25’ to
about 90°27’30”. Scale 1:24,000 (1 inch = 2,000 feet). Sheet
20 by 27 inches. (Accompanied by 5-page text.)

MF-1340-C. CALIFORNIA. Mineral resource potential map
of the Ishi, Mill Creek, Polk Springs, and Butt Mountain Road-
less Areas, Tehama and Plumas counties, California, by J. A.
Peterson, R. B. Fiebelkorn, and K. A. Johnson, U.S. Geologi-
cal Survey, and E. E. Cather, H. W. Campbell, D. K. Denton,
37°25’ to about 37°27’30”, long about 90°25’ to about 90°27’30”.
Scale 1:24,000 (1 inch = 2,000 feet). Sheet 20 by 27 inches.
(Accompanied by 5-page text.)

MF-1343-B. NEVADA. Mineral resource potential of the
Wheeler Peak and Highland Ridge further planning areas,
White Pine County, Nevada, by D. H. Whitebread, R. R.
Carlson, and C. K. Moss, U.S. Geological Survey, and S. E.
about 40° to about 40°15’, long 121°15’ to about 121°55’. Scale
1:62,500 (1 inch = about 1 mile). Sheet 32 by 44 inches.
(Accompanied by 5-page text.)

MF-1344-D. ARIZONA, NEW MEXICO. Maps showing the
distribution and relationships of selected metals in heavy-min-
eral concentrates of the Hells Hole Further Planning Area
(RARE II), Greenlee County, Arizona, and Grant County,
New Mexico, by J. R. Hassener, K. C. Watts, C. L. Forn, and
E. L. Mosier. 1983. Scale 1:100,000 (1 inch = about 1.6 miles).
Sheet 32 by 45 inches.

MF-1345-A. NORTH DAKOTA. Structural-stratigraphic
framework and correlation of coal beds in the Tongue River
and Sentinel Butte members of the Fort Union Formation,
Daglun 15-minute Quadrangle, Billings, Stark, and Slope
Lat 46°30’ to 46°45’, long 103° to 103°15’. Scale 1:62,500 (1 inch
= about 1 mile). Sheet 1, 26 by 38 inches; sheet 2, 34 by
43 inches; sheet 3, 33 by 52 inches.

MF-1346. VIRGINIA. Seismicity map of the State of Virginia,
Lat about 37° to about 39°, long about 76° to about 83°. Scale
1:1,000,000 (1 inch = about 16 miles). Sheet 26 by 44 inches.

MF-1348-D. KENTUCKY. Mineral resource potential maps of
the Beaver Creek Wilderness, McCreary County, Kentucky,
to about 36°56’, long 84°23’30” to 84°30’; sheet 35 by 38 inches.
Sheet 2, lat about 36°40’ to about 36°56’, long 84°23’ to about
84°40’; sheet 32 by 32 inches. (Accompanied by 10-page text.)

MF-1353-C. UTAH. Mineral resource potential map of the
Stansbury Roadless Area, Tooele County, Utah, by M. L.
Sorensen, U.S. Geological Survey, and R. F. Kness, U.S. Bu-
reau of Mines. 1983. Lat about 40°20’ to about 40°35’, long
112°30’ to 112°45’. Scale 1:62,500 (1 inch = about 1 mile).
Sheet 28 by 30 inches. (Accompanied by 7-page text.)

MF-1354-B. MONTANA, IDAHO. Map showing results of
audio-magnetotelluric studies in the northwestern part of the
Wallace 1° by 2° Quadrangle, Montana and Idaho, by G. L.
Long. 1983. Lat about 47°15’ to 48°, long 114°30’ to 116°. Scale
1:250,000 (1 inch = about 4 miles). Sheet 47 by 52 inches.

MF-1358-D. VIRGINIA. Mineral resource potential map of
the Dolly Ann Roadless Area, Alleghany County, Virginia, by
F. G. Lesure, U.S. Geological Survey, and J. G. Jones, U.S. Bu-
reau of Mines. 1983. Lat 37°45’ to 37°52’30”, long 79°52’30”
to 80°. Scale 1:24,000 (1 inch = 2,000 feet). Sheet 34 by 38
inches. (Accompanied by 14-page text.)

MF-1361-B. CALIFORNIA, NEVADA. Map and interpreta-
tion of geochemical anomalies in the White Mountains, Blanco
Mountain, Birch Creek, and Black Canyon Roadless Areas,
White Mountains, California and Nevada, by M. F. Diggles.
1983. Lat about 37°15’ to about 37°55’, long about 118° to
118°15’. Scale 1:62,500 (1 inch = about 1 mile). Sheet 40 by
57 inches.

MF-1361-C. CALIFORNIA. Mineral resource potential map
of the Blanco Mountain and Black Canyon Roadless Areas,
Inyo and Mono counties, California, by M. F. Diggles and R. J.
Schmauch, U.S. Bureau of Mines. 1983. Lat about 37°15’ to
about 37°35’, long about 118° to about 118°25’. Scale 1:62,500 (1 inch
= about 1 mile). Sheet 33 by 41 inches. (Accompanied by 12-page
text.)

MF-1365-B. CALIFORNIA. Aeromagnetic and gravity maps
of the east part of the Raymond Peak Roadless Area, Alpine
County, California, by Donald Plouff. 1983. Lat about 38°35’
to about 38°45’, long about 119°45’ to about 119°55’. Scale
1:62,500 (1 inch = about 1 mile). Sheet 25 by 42 inches.


MF-1378. ARIZONA. Reconnaissance geologic map of the Presumido Peak Quadrangle, Arizona, by Gordon Hazel, D. J. May, and R. M. Tosdal. 1982. Lat 31°30' to 31°45', long 111°30' to 111°45'. Scale 1:62,500 (1 inch = about 1 mile). Sheet 27 by 39 inches. (Reprint.)


MF-1381-B. OREGON. Geochemical map and rock and stream-sediment data from the Wild Rogue Wilderness, Coos and Curry counties, Oregon, by J. A. Peterson, and Floyd Gray. 1983. Lat about 42°35' to about 42°50', long about 123°50' to about 124°05'. Scale 1:48,000 (1 inch = 4,000 feet). Sheet 37 by 53 inches.

MF-1381-C. OREGON. Map and interpretation of aeromagnetic data for the Wild Rogue Wilderness, Coos and Curry counties, Oregon, by R. J. Blakely, and Lisa Senior. 1983. Lat about 42°35' to about 42°50', long about 123°50' to about 124°05'. Scale 1:48,000, (1 inch = 4,000 feet). Sheet 36 by 37 inches.


MF-1382-A. CALIFORNIA, NEVADA. Geologic map of the Walker Lake 1° by 2° Quadrangle, California and Nevada, by J. H. Stewart, J. E. Carlson, and D. C. Johannessen. 1982. Lat 38° to 39°, long 118° to 120°. Scale 1:250,000 (1 inch = about 4 miles). Sheet 43 by 46 inches. (Reprint.)

MF-1382-B. CALIFORNIA, NEVADA. Map showing distribution, ages, and petrographic characteristics of Mesozoic plutonic rocks in the Walker Lake 1° by 2° Quadrangle, California and Nevada, compiled by D. A. John. 1983. Lat 38° to 39°, long 118° to 120°. Scale 1:250,000 (1 inch = about 4 miles). Sheet 41 by 48 inches.

MF-1382-D. NEVADA, CALIFORNIA. Map showing late Cenozoic faults in the Walker Lake 1° by 2° Quadrangle, Nevada-California, by J. C. Dohrenwend. 1982. Lat 38° to 39°, long 118° to 120°. Scale 1:250,000, (1 inch = about 4 miles). Sheet 27 by 42 inches. (Reprint.)

MF-1383-C. OREGON, CALIFORNIA. Mineral resource assessment maps of the Medford 1° by 2° Quadrangle, Oregon-California, by D. A. Singer, N. J. Page, J. G. Smith, R. J. Blakely, and M. G. Johnson. 1983. Two sheets. Lat 42° to 43°, long 122° to 124°. Scale 1:250,000 (1 inch = about 4 miles). Sheet 1, 31 by 52 inches; sheet 2, 29 by 49 inches.

MF-1383-D. OREGON, CALIFORNIA. Map showing characteristics of lode gold in the Medford 1° by 2° Quadrangle, Oregon-California, by N. J. Page, M. G. Johnson, and J. A. Peterson. 1983. Two sheets. Lat 42° to 43°, long 122° to 124°. Scale 1:250,000 (1 inch = about 4 miles). Sheet 1, 38 by 46 inches; sheet 2, 22 by 42 inches.

MF-1383-E. OREGON, CALIFORNIA. Map showing geologic, geophysical, and geochemical characteristics of granitic plutons in the Medford 1° by 2° Quadrangle, Oregon-California, by N. J. Page, R. J. Blakely, and J. K. Cannon. 1983. Lat 42° to 43°, long 122° to 124°. Scale 1:250,000 (1 inch = about 4 miles.). Sheet 32 by 40 inches.

MF-1384. CALIFORNIA. Pre-Monterey subcrop and structure contour maps, western San Luis Obispo and Santa Barbara counties, south-central California, by C. A. Hall, Jr. 1982. Scale 1:62,500, (1 inch = about 1 mile). Six sheets. Sheet 1, lat 35°30' to 35°45', long about 120°50' to 121°20'; sheet 2, sheet 36 by 55 inches. Sheet 2, lat about 35°15' to 35°30', long about 120°35' to 121°05'; sheet 33 by 45 inches. Scale 1, lat about 35° to 35°15', long 120°15' to 121°; sheet 42 by 45 inches. Scale 4, lat 34°45' to 35°, long 119°55' to 120°50'; sheet 43 by 56 inches. Scale 5, lat about 34°30' to 34°45', long 119°52'30" to 120°45'; sheet 28 by 53 inches. Sheet 6, lat 34°30' to 34°45', long 119°52'30" to 120°45'; sheet 28 by 53 inches. (Reprint.) (Accompanied by 28-page text.)


MF-1392. Map showing utility and industrial power sources in the conterminous United States, by C. M. Shifflet. 1982. Two sheets. Scale 1:2,500,000 (1 inch = about 40 miles). East half, lat about 23° to about 48°, long about 64° to 96°. West half, lat about 23° to about 48°, long 97° to 128°. Sheets 42 by 58 inches. (Accompanied by 22-page text.)

MF-1394-B. ARIZONA. Mineral resource potential map of the Strawberry Crater Roadless Areas, Coconino County, Arizona, by E. W. Wolfe, and D. B. Hoover. 1982. Lat 35°22'30" to 35°30', long 111°22'30" to 111°30'. Scale 1:24,000 (1 inch = 2,000 feet). Sheet 35 by 52 inches.


MF-1395-A. CALIFORNIA. Geologic map of the Domeland Wilderness and contiguous roadless areas, Kern and Tulare counties, California, by J. R. Berquist and A. M. Nitkiewicz with geochronology by R. M. Tosdal. 1982. Lat 35°40' to 36°05', long 118°05' to 118°25'. Scale 1:48,000 (1 inch = 4,000 feet). Sheet 38 by 51 inches.

MF-1395-B. CALIFORNIA. Geophysical maps and interpretation of the Domeland Wilderness and contiguous roadless areas, Kern and Tulare counties, California, by R. C. Jachens. 1983. Lat 35°40' to 36°05', long 118°05' to 118°25'. Scale 1:48,000 (1 inch = 4,000 feet). Sheet 38 by 47 inches. (Reprint.)

MF-1395-C. CALIFORNIA. Mineral resource potential map of the Domeland Wilderness and contiguous roadless areas, Kern and Tulare counties, California, by J. R. Berquist and A. M. Nitkiewicz. 1983. Lat 35°40' to 36°05', long 118°05' to 118°25'. Scale 1:48,000 (1 inch = 4,000 feet). Sheet 38 by 47 inches. (Accompanied by 6-page text.)

MF-1396. CALIFORNIA. Map showing areas susceptible to shallow landsliding, Marin County and adjacent parts of Sonoma County, California, by Ellen Stephenson, D. M. Peterson, and G. O. Reid. 1982. Lat 37°45' to 38°15', long 122°15' to 123°. Scale 1:62,500 (1 inch = about 1 mile). Sheet 40 by 43 inches. (Accompanied by 8-page text.)

MF-1397-A. GEORGIA, TENNESSEE. Geologic maps of the Cohutta Wilderness and the Hemp Top Roadless Area, northern Georgia and southeastern Tennessee, by J. E. Gair, and J. F. Slack. 1982. Lat 34°50' to 35°01', long 84°27'30" to 84°40'. Scale 1:48,000 (1 inch = 4,000 feet). Sheet 36 by 44 inches.

MF-1397-B. GEORGIA, TENNESSEE. Geochemical survey of the Cohutta Wilderness and the Hemp Top Roadless Area, northern Georgia and southeastern Tennessee, by J. E. Gair. 1982. Two sheets. Lat 34°50' to 35°01', long 84°27'30" to 84°40'. Scale 1:48,000 (1 inch = 4,000 feet). Sheet 1, 40 by 54 inches; sheet 2, 32 by 48 inches.

MF-1398. CALIFORNIA. Map showing areas susceptible to surface ruptures associated with the Mammoth Lakes, California, earthquakes of May 1980, by M. M. Clark, J. C. Yount, P. R. Vaughan, and R. L. Zepeda. 1982. Lat about 37°35' to about 37°40', long 118°05' to 118°25'. Scale 1:62,500 (1 inch = about 1 mile). Sheet 38 by 51 inches.

MF-1399. CALIFORNIA. Map showing areas susceptible to shallow landsliding, Marin County and adjacent parts of Sonoma County, California, by Ellen Stephenson, D. M. Peterson, and G. O. Reid. 1982. Lat 37°45' to 38°15', long 122°15' to 123°. Scale 1:62,500 (1 inch = about 1 mile). Sheet 40 by 43 inches. (Accompanied by 8-page text.)


MF-1406. CALIFORNIA. Map showing areas susceptible to different hazards from shallow landsliding, Marin County and adjacent parts of Sonoma County, California, by Ellen Stephenson, D. M. Peterson, and G. O. Reid. 1982. Lat 37°45' to 38°15', long 122°15' to 123°. Scale 1:62,500 (1 inch = about 1 mile). Sheet 40 by 43 inches. (Accompanied by 8-page text.)


MF-1415-B. GEORGIA, TENNESSEE. Geochemical survey of the Cohutta Wilderness and the Hemp Top Roadless Area, northern Georgia and southeastern Tennessee, by J. E. Gair. 1982. Two sheets. Lat 34°50' to 35°01', long 84°27'30" to 84°40'. Scale 1:48,000 (1 inch = 4,000 feet). Sheet 1, 40 by 54 inches; sheet 2, 32 by 48 inches.


MF-1423-A. CALIFORNIA, OREGON. Geologic map of the North Fork Smith Roadless Area, Del Norte County, Northern California, and Curry County, Oregon, by Floyd Gray, N. J. Page, H. R. Cornwall, and D. F. Huber. 1983. Lat 41°50' to about 42°, long 123°45' to 124°05'. Scale 1:62,500 (1 inch = about 1 mile). Sheet 23 by 37 inches.

MF-1442. ALASKA. Structure maps and seismic stratigraphy of Yakataga segment of the continental margin, northern Gulf of Alaska, by T. R. Bruns, and W. C. Schwab. 1983. Four sheets. Lat 59° to about 60°, long 141° to 145°. Scale 1:250,000 (1 inch = 4 miles). Sheet 1, 33 by 44 inches; sheets 2 and 3, 34 by 39 inches; 4, 35 by 43 inches. (Accompanied by 20-page text.)


MF-1430. CALIFORNIA. Map showing configuration of the basement surface, northern San Joaquin Valley, California, by J. A. Bartow. 1983. Lat about 37° to about 38°, long about 120° to about 121°. Scale 1:250,000 (1 inch = about 4 miles). Sheet 36 by 39 inches.

MF-1435. Maps showing distribution, thickness, and mass of late Pleistocene and Holocene tephra from major volcanoes in the Pacific Northwest of the United States; a preliminary assessment of hazards from volcanic ejecta to nuclear reactors in the Pacific Northwest, by Susan Shipley, and A. M. Sarna-Wojcicki. 1983. Lat about 39° to about 48°, long about 107° to about 128°. Scale 1:2,500,000 (1 inch = about 40 miles). Sheet 28 by 35 inches. (Accompanied by 27-page text.)

MF-1436. CALIFORNIA. Preliminary geologic map of the Dardanelles Cone Quadrangle, central Sierra Nevada, California, compiled by N. K. Huber. 1983. Lat 38°15' to 38°30', long 119°45' to 120°. Scale 1:62,500 (1 inch = about 1 mile). Sheet 24 by 30 inches.

MF-1437. CALIFORNIA. Preliminary geologic map of the Pinicrest Quadrangle, central Sierra Nevada, California, by N. K. Huber. 1983. Lat 38° to 38°15', long 119°45' to 120°. Scale 1:62,500 (1 inch = about 1 mile). Sheet 24 by 26 inches.


MF-1447-B. IDAHO. Geochemical map of the Selkirk Roadless Area, Boundary County, Idaho, by F. K. Miller. 1983. Lat about 48°37'30" to about 48°52'30", long about 116°30' to about 116°45'. Scale 1:48,000 (1 inch = 4,000 feet). Sheet 36 by 47 inches.


MF-1453-A. CALIFORNIA. Geologic map of the Tioga Lake, Hall Natural Area, Log Cabin-Saddlebag, and Horse Meadows Roadless Areas, Mono County, California, by J. F. Seitz. 1983. Lat about 37°50' to about 38°, long about 119°5' to about 119°20'. Scale 1:62,500 (1 inch = about 1 mile). Sheet 30 by 37 inches.

MF-1457. ALASKA. Map showing the geological structure of the continental shelf southeast and southwest of Kodiak Island, Alaska, by M. A. Fisher, and Roland von Huene. 1982. Lat 55° to about 58°, long about 149° to about 156°. Scale 1:500,000 (1 inch = about 24 miles). Sheet 41 by 52 inches.


MF-1463-B. ARIZONA, NEW MEXICO. Geologic map of the Lower San Francisco Wilderness Study Area and contiguous roadless area, Greenlee County, Arizona, and Catron and Grant counties, New Mexico, by J. C. Ratte. 1982. Scale 1:62,500 (1 inch = about 1 mile). Sheet 25 by 36 inches.

MF-1464. MONTANA. Geologic map of the Sapphire Wilderness and contiguous roadless area, Granite and Ravalli counties, Montana, by C. A. Wallace, D. J. Lidke, and J. D. Obradovich. 1982. Lat about 45°57'30" to 46°15', long 113°30' to 113°52'30". Scale 1:50,000 (1 inch = about 4,200 feet). Sheet 33 by 48 inches.


MF-1473. OREGON. Geologic map of the Oregon Canyon 3NW Quadrangle, Malheur County, Oregon, by J. J. Rytuba, and D. L. Curtis, Jr. 1983. Lat 42°07'30" to 42°15", long 117°52'30" to 118°. Scale 1:24,000 (1 inch = 2,000 feet). Sheet 30 by 36 inches.

MF-1474-A. TENNESSEE. Geologic map of the Gee Creek Wilderness, Polk and Monroe counties, Tennessee, by J. B. Epstein. 1983. Lat about 35°15' to about 35°17'30", long about 84°27'30" to about 84°32'30". Scale 1:24,000 (1 inch = 2,000 feet). Sheet 30 by 41 inches.

MF-1474-B. TENNESSEE. Reconnaissance geochemical maps of the Gee Creek Wilderness, Polk and Monroe counties, Tennessee, by J. B. Epstein. 1983. Lat about 35°15' to 35°17'30" long about 84°27'30" to about 84°32'30". Scale 1:24,000 (1 inch = 2,000 feet). Sheet 40 by 41 inches.

MF-1474-C. TENNESSEE. Maps showing mines, quarries, and prospects, with analyses of samples, Gee Creek Wilderness, Polk and Monroe counties, Tennessee, by G. C. Gazdik and P. T. Behum, U.S. Bureau of Mines. 1983. Lat about 35°15' to about 35°17'30", long about 84°27'30" to about 84°32'30". Scale 1:24,000 (1 inch = 2,000 feet). Sheet 36 by 36 inches.


MF-1475-A. ARIZONA, UTAH. Geologic map of the Vermilion Cliffs-Paria Canyon Instant Study Area and adjacent wilderness study areas, Coconino County, Arizona, and Kane County, Utah, by A. L. Bush. 1983. Lat about 36°45' to about 37°, long about 110°45' to about 112°. Scale 1:62,500 (1 inch = about 1 mile). Sheet 35 by 47 inches.

MF-1475-C. ARIZONA, UTAH. Mine and prospect map of the Vermilion Cliffs-Paria Canyon Instant Study Area and adjacent wilderness study areas, Coconino County, Arizona and Kane County, Utah, by M. E. Lane, U.S. Bureau of Mines. 1983. Lat about 36°45' to about 37°, long about 111°45' to about 112°. Scale 1:62,500 (1 inch = about 1 mile). Sheet 42 by 58 inches.

MF-1476-A. ALASKA. Reconnaissance geologic map of the western Chichagof and Yakobi Islands Wilderness Study Area, southeastern Alaska, by B. R. Johnson, and S. M. Karl. 1982. Lat about 57°30' to about 58°, long 135°20' to 136°40'. Scale 1:125,000 (1 inch = about 2 miles). Sheet 40 by 49 inches.


MF-1480. ALASKA. Structure and petroleum potential of the Yakutat segment of the northern Gulf of Alaska continental margin, by T. R. Bruns. 1983. Three sheets. Lat about 57°30' to about 60°30', long about 136° to about 143°. Scale 1:500,000 (1 inch = about 8 miles). Sheets 38 by 53 inches. (Accompanied by 22-page text.)

MF-1482. OREGON. Sections showing biostratigraphy and correlation of Tertiary rocks penetrated in wells drilled on the southern Oregon continental margin, by P. D. Snively, Jr., H. C. Wagner, and W. W. Rau. 1982. Sheet 35 by 40 inches. (Accompanied by 2-page text.)


MF-1483-B. COLORADO. Aeromagnetic map of the Powderhorn Wilderness Study Area and Cannibal Plateau Roadless Area, Gunnison and Hinsdale counties, Colorado, by R. A. Martin, and W. N. Sharp. 1983. Lat about 38° to 38°15', long about 107°05' to 107°20'. Scale 1:50,000 (1 inch = about 4,200 feet). Sheet 27 by 31 inches.


MF-1488. CALIFORNIA. Map showing the San Andreas Fault trace and related features in the Montara Mountain and San Mateo 7.5 minute quadrangles, San Mateo County, California, by E. H. Pampeyan. 1983. Lat 37°30' to 37°37'30", long 122°15' to 122°30'. Scale 1:24,000 (1 inch = 2,000 feet). Sheet 34 by 42 inches.

MF-1489. MONTANA. Complete Bouguer gravity and general­ized geologic and structure map of the Choteau 1° by 2° Quad­rangle, Montana, by D. M. Kulik. 1982. Lat 47° to 48°, long 112° to 114°. Scale 1:250,000 (1 inch = about 4 miles). Sheet 26 by 46 inches.

MF-1489. MONTANA. Complete Bouguer gravity and general­ized geologic and structure map of the Choteau 1° by 2° Quad­rangle, Montana, by D. M. Kulik. 1982. Lat 47° to 48°, long 112° to 114°. Scale 1:250,000 (1 inch = about 4 miles). Sheet 27 by 48 inches. (Reprint.)


MF-1495-B. IDAHO, MONTANA. Reconnaissance geologic map of the Selway-Bitterroot Wilderness, Idaho County, Idaho, and Missoula and Ravalli counties, Montana, by M. I. Toth. 1983. Lat 45°40' to 46°45', long 114° to 115°30'. Scale 1:125,000 (1 inch = about 2 miles). Sheet 38 by 55 inches.
Landis. 1983. Lat 34°30' to 34°37'30", long 108°45' to 108°52'30". Scale 1:24,000 (1 inch = 2,000 feet). Sheet 37 by 37 inches. (Reprint.)

MF-1509. NEW MEXICO. Geologic map of the Moreno Hill Quadrangle, Cibola and Catron counties, New Mexico, by M. W. McLeLLan, R. L. Haschke, L. N. Robinson, and E. R. Landis. 1983. Lat 34°30' to 34°37'30", long 108°45' to 108°52'30". Scale 1:24,000 (1 inch = 2,000 feet). Sheet 35 by 35 inches.


MF-1512. WYOMING. Preliminary geologic map of the Story Quadrangle, Sheridan and Johnson counties, Wyoming, by E. N. Hinrichs. 1983. Lat 44°30' to 44°37'30", long 106°52'30" to 107°. Scale 1:24,000 (1 inch = 2,000 feet). Sheet 27 by 34 inches.


MF-1517. WYOMING, MONTANA. Geologic and structure maps of the Monarch Quadrangle, Sheridan County, Wyoming, and Big Horn County, Montana, by B. E. Barnum. 1983. Two sheets. Lat 44°52'30" to 45°, long 107° to 107°07'30". Scale 1:24,000 (1 inch = 2,000 feet). Sheet 1, 30 by 36 inches; sheet 2, 19 by 29 inches.

MF-1518. ALASKA. Occurrence and distribution chart of ostracodes from the northeastern Gulf of Alaska, by E. M. Brouwers. 1983. Two sheets. Sheet 1, 35 by 48 inches; sheet 2, 40 by 49 inches. (Accompanied by 13-page text.)


MF-1521-C. ARIZONA. Geophysical maps of the Dragoon Mountains Roadless Area, Cochise County, Arizona, by D. P. Klein. 1983. Lat about 31°55' to about 32°, long about 109°55' to about 110°. Scale 1:50,000 (1 inch = about 4,200 feet). Sheet 35 by 49 inches.


MF-1523-C. NEW MEXICO. Geologic map of the Chama River Canyon Wilderness and contiguous roadless area, Rio Arriba County, New Mexico, by J. L. Ridgley. 1983. Lat 36°10' to 36°35', long 106°30' to 106°45'. Scale 1:48,000 (1 inch = 4,000 feet). Sheet 38 by 43 inches.


MF-1526-A. CALIFORNIA. Geologic map of the Orleans Mountain Roadless Area, Humboldt and Siskiyou counties, California, by M. M. Donato, U. S. Geological Survey, C. G. Barnes, Texas Tech University, and G. G. Gray, University of Texas. 1983. Lat about 41°10' to about 41°20', long about 123°20' to about 123°35'. Scale 1:48,000 (1 inch = about 4,000 feet). Sheet 33 by 33 inches.


MF-1528. OREGON, CALIFORNIA. Reconnaissance surficial geologic map of the Medford 1° by 2° Quadrangle, Oregon-California, by Barry Moring. 1983. Two sheets. Scale 1:125,000 (1 inch = about 2 miles). Lat 42° to 43°, long 123° to 124°. Sheets, 35 by 48 inches. (Accompanied by 11-page text.)


MF-1529-C. CALIFORNIA. Geologic map of the Mount Eddy and Castle Crags Roadless Areas, Shasta, Siskiyou, and Trinity counties, California, by J. A. Peterson, J. E. Quick, M. L. Throckmorton, and M. E. Caress. 1983. Lat about 41°10' to about 41°20', long about 122°25' to about 122°30'. Scale 1:62,500 (1 inch = about 1 mile). Sheet 27 by 36 inches.


MF-1533. NEW MEXICO. Geologic map of the Fence Lake Quadrangle, Cibola County, New Mexico, by M. W. McLellan, L. N. Robinson, and L. R. Haschke. 1983. Lat 34°37'30" to 34°45', long 108°37'30" to 108°45'. Scale 1:24,000 (1 inch = 2,000 feet). Sheet 34 by 35 inches.

MF-1536. WASHINGTON, OREGON. Geologic map of the Wenaha Tucannon Wilderness, Washington and Oregon, by D. A. Swanson, and T. L. Wright. 1983. Lat about 45°52'30" to 46°12'30", long 117°30' to about 117°55'. Scale 1:48,000 (1 inch = 4,000 feet). Sheet 38 by 50 inches.

MF-1537. RHODE ISLAND. Maps showing geology and shallow structure of western Rhode Island Sound, Rhode Island, by S. W. Needell, C. J. O'Hara, and H. J. Knebel. 1983. Four sheets. Lat about 41°15' to about 41°30', long about 71°15' to about 71°30'. Scale 1:125,000 (1 inch = about 2 miles). Sheet 1, 36 by 52 inches; sheet 2, 34 by 45 inches; sheet 3, 30 by 49 inches; sheet 4, 30 by 37 inches.


MF-1540-A. CALIFORNIA. Geologic map of the Condrey Mountain Roadless Area, Siskiyou County, California, by R. G. Coleman, M. D. Helper, and M. M. Donato. 1983. Lat about 41°55' to about 42°, long 122°45' to 123°15'. Scale 1:50,000 (1 inch = about 4,200 feet). Sheet 34 by 46 inches.

MF-1540-B. CALIFORNIA. Aeromagnetic map and interpretation of geophysical data from the Condrey Mountain Roadless Area, Siskiyou County, California, by R. C. Jachens, and W. P. Elder. 1983. Lat about 41°50' to about 42°, long 122°45' to 123°15'. Scale 1:50,000 (1 inch = about 4,200 feet). Sheet 30 by 46 inches.

MF-1542-A. COLORADO. Reconnaissance geologic map of the Spanish Peaks Wilderness Study Area, Huerfano and Las Animas counties, Colorado, by K. E. Budding, and V. A. Lawrence. 1983. Lat about 37°20' to about 37°25', long 104°52'30" to 105°07'30". Scale 1:50,000 (1 inch = about 4,200 feet). Sheet 22 by 40 inches.

MF-1542-B. COLORADO. Geochemical map of the Spanish Peaks Wilderness Study Area, Huerfano and Las Animas counties, Colorado, by K. E. Budding, and V. A. Lawrence. 1983. Lat about 37°20' to about 37°25', long 104°52'30" to 105°07'30". Scale 1:50,000 (1 inch = about 4,200 feet). Sheet 27 by 40 inches.


MF-1543. WASHINGTON. Geologic map of the Kirkland Quadrangle, Washington, by J. P. Minard. 1983. Lat 47°37'30" to 47°45', long 122°07'30" to 122°15'. Scale 1:24,000 (1 inch = 2,000 feet). Sheet 30 by 31 inches.


MF-1555-B. ARIZONA. Aeromagnetic map of the West Clear Creek Roadless Area, Coconino and Yavapai counties, Arizona, by W. E. Davis, and G. E. Ulrich. 1983. Lat 34°30' to 34°37'30", long about 111°20' to about 111°47'30". Scale 1:24,000 (1 inch = 2,000 feet). Sheet 35 by 55 inches.


MF-1559-B. CALIFORNIA. Geologic map of part of the Ventana Wilderness and the Black Butte, Bear Mountain, and Bear Canyon Roadless Areas, Monterey County, California, by V. M. Seiders, J. M. Joyce, K. A. Leverett, and Hugh McLean. 1983. Lat about 36° to about 36°20', long 121°15' to about 121°40'. Scale 1:50,000 (1 inch = about 4,200 feet). Sheet 42 by 51 inches.


MF-1562. ARKANSAS. Map showing geology and minerals: resource potential of the Little Blakely Roadless Area, Garland County, Arkansas, by M. H. Miller and E. K. Keefer, U.S. Geological Survey, and R. H. Wood II, U.S. Bureau of Mines. 1983. Lat about 34°37'30" to about 34°40', long about 93°10' to about 93°12'30". Scale 1:24,000 (1 inch = 2,000 feet). Sheet 19 by 37 inches. (Accompanied by 5-page text.)


MF-1570-B. NEW MEXICO. Geologic map of the Latir Peak and Wheeler Peak Wilderness and Cubolbine-Hondo Wilderness Study Area, Taos County, New Mexico, by J. C. Reed, Jr., P. W. Lipman, and J. R. Robertson. 1983. Lat 36°30' to 36°52'30", long 105°15' to 105°37'30". Scale 1:50,000 (1 inch = about 4,200 feet). Sheet 40 by 54 inches.


MF-1575. COLORADO. Preliminary thermal-maturity map of the Cameo and Fairfield or equivalent coal zone in the Piceance Creek basin, Colorado, by V. F. Nuccio, and R. C. Johnson. 1983. Two sheets. Lat about 38°45' to about 40°30', long about 107°15' to about 108°30'. Scale 1:253,440 (1 inch = about 4 miles). Sheet 1, 36 by 51 inches; sheet 2, 28 by 34 inches.


MF-1590-B. MONTANA. Geochemical map of the Middle Mountain-Tobacco Root Roadless Area, Madison County, Montana, by J. M. O'Neill. 1983. Lat 45°30' to 45°45', long about 111°55' to 112°15'. Scale 1:50,000 (1 inch = about 4,200 feet). Sheet 34 by 50 inches.

MF-1595-A. CALIFORNIA. Preliminary geologic map of the Yolla Bolly-Middle Eel Wilderness and adjacent roadless areas, Northern California, by M. C. Blake, Jr., and A. S. Jayko. 1983. Lat about 39°55" to 40°15", long about 122°50' to about 123°15'. Scale 1:62,500 (1 inch = about 1 mile). Sheet 37 by 46 inches.


MF-1599. ARKANSAS, OKLAHOMA. Mineral resource potential and geologic map of the Black Fork Mountain Roadless Area, Polk County, Arkansas, and Le Flore County, Oklahoma, by M. H. Miller, and M. C. Smith. 1983. Lat about 34°40' to 34°45', long 94°15' to 94°37'30". Scale 1:50,000 (1 inch = about 4,200 feet). Sheet 20 by 28 inches. (Accompanied by 4-page text.)


MF-1643. IDAHO, UTAH. Geologic map of the North Hansel Mountains, Idaho and Utah, by R. W. Allmendinger. 1983. Lat 42° to about 42°10' long 112°30" to about 112°37'30". Scale 1:24,000 (1 inch = 2,000 feet). Sheet 38 by 51 inches.


MF-1655-D. CALIFORNIA. Petroleum potential map of the Mesozoic and Cenozoic rocks in roadless areas and the Santa Lucia Wilderness in the Los Padres National Forest, southwestern California, by V. A. Frizzell, Jr., and G. E. Claypool. 1983. Lat 34°15' to 35°30', long 118°30' to 120°45'5. Scale 1:250,000 (1 inch = about 4 miles). Sheet 26 by 35 inches. (Accompanied by 18-page text.)
MF-1659. CALIFORNIA. Physiographic diagrams of Long Valley, Mono and Inyo counties, California, by T. R. Alpha, R. A. Bailey, K. R. Lajoie, and M. M. Clark. 1983. Two sheets. Lat about 37°30' to about 38°, long about 118°30' to about 119°15'. Scale 1:100,000 (1 inch = about 1.6 miles). Sheet 1, 34 by 36 inches; sheet 2, 33 by 35 inches.

MF-1660. NEW MEXICO. Seismicity map of the State of New Mexico, by C. W. Stover, B. G. Reagor, and S. T. Algermissen. 1983. Lat about 31° to about 37°, long about 103° to about 109°. Scale 1:1,000,000 (1 inch = about 16 miles). Sheet 31 by 51 inches.


MF-1665. NEW MEXICO. Geology and mineral deposits of the Priest Tank Quadrangle, Sierra County, New Mexico, by A. V. Heyl, C. H. Maxwell, and L. L. Davis. 1983. Lat 35°15' to 33°22'30", long 107°22'30" to 107°30'. Scale 1:24,000 (1 inch = about 2,000 feet). Sheet 35 by 36 inches.

MF-1666. NEW MEXICO. Geologic map of the Mule Creek Quadrangle, Grant County, New Mexico, by J. C. Ratte and W. E. Brooks. 1983. Lat 33° to 33°07'30", long 108°52'30" to 109°. Scale 1:24,000 (1 inch = 2,000 feet). Sheet 27 by 36 inches.

MF-1667. COLORADO. Structure contour map of the top of the Rollins Sandstone Member of the Mesaverde Formation and Trout Creek Sandstone Member of the Iles Formation, Piceance Creek basin, Colorado, by R. C. Johnson. 1983. Lat about 38°45' to 40°30', long about 106°45' to about 109°. Scale 1:253,440 (1 inch = about 4 miles). Sheet 35 by 42 inches.

MINERAL INVESTIGATIONS RESOURCE MAPS

Mineral distribution and classification maps; scales from 1:250,000 to 1:5,000,000; show geographic distribution and grade of mineral-resource commodities. Brief accompanying text may include a general description of the geologic occurrences, a locality index, and a bibliography.

MR-0049. CALIFORNIA. Reported occurrences of selected minerals in the southern third of California, compiled by M. B. Smith, V. L. Engler, D. I. Lee, K. J. Horn, and R. G. Wayland. 1974. Lat about 33° to about 36°, long about 114° to about 121°. Scale 1:500,000 (1 inch = about 8 miles). Sheet 37 by 57 inches. (Reprint.) (Accompanied by 6-page text.) (Includes most metals and nonmetals; does not include petroleum and natural gas.)

MR-0071. IDAHO. Maps showing selected geology and phosphate resources of the Upper Valley Quadrangle, Caribou County, Idaho, by P. D. Derkey, Pamela Palmer, and N. J. Wotruba, Idaho Bureau of Mines and Geology. 1983. Three sheets. Lat 42°45' to 42°52'30", long 111°15' to 111°22'30". Scale 1:24,000 (1 inch = 2,000 feet). (Accompanied by 6-page text.)

SPECIAL GEOLOGIC MAPS

Geologic map of the United States (exclusive of Alaska and Hawaii), compiled by P. B. King and H. M. Beikman; geologic cartography by G. J. Edmonston. 1974. Three sheets. West half, lat about 23° to 48°, long about 97° to 128°. East half, lat about 23° to about 48°, long about 64° to 96°. Sheets 1 and 2, 41 by 52 inches; sheet 3 (legend), 32 by 52 inches. (Reprint.) (Available unfolded only.)

STATE GEOLOGIC MAPS

MASSACHUSETTS. Bedrock geologic map of Massachusetts, edited by E-an Zen, compiled by Richard Goldsmith, N. M. Ratcliffe, Peter Robinson, and R. S. Stanley, and assisted by N. L. Hatch, Jr., A. F. Shride, E. G. A. Weed, and D. R. Wones. 1983. Three sheets. Lat about 41°15' to about 43°, long about 70° to about 73°30'. Scale 1:250,000 (1 inch = about 4 miles). Sheets 1 and 2, 42 by 58 inches; sheet 3, 19 by 39 inches. (Available unfolded only.)

ARIZONA. Geologic map of Arizona, by E. D. Wilson, R. T. Moore, and J. R. Cooper. 1969. Lat about 32° to about 37°, long about 109° to about 115°. Scale 1:500,000 (1 inch = about 8 miles). Sheet 48 by 71 inches. (Reprint.) (Available unfolded only.)

HYDROLOGIC INVESTIGATIONS ATLASES

Multicolored or black and white maps on topographic or planimetric bases presenting a wide range of geohydrologic data; both regular and irregular areas; principal scale 1:24,000, regional studies at 1:250,000 scale or smaller.

HA-0194. Generalized map showing annual runoff and productive aquifers in the conterminous United States, compiled by C. L. McGuinness. 1964. Scale 1:5,000,000 (1 inch = about 80 miles). Sheet 29 by 43 inches. (Reprint.)

HA-0471. WYOMING. Water resources of the Laramie, Shirley, and Hanna basins and adjacent areas, southeastern Wyoming, by M. E. Lowry, S. J. Rucker, IV, and K. L. Wahl. 1983. Four sheets. Lat 41° to about 42°45', long about 105°30' to about 107°. Sheet 1, scale 1:250,000 (1 inch = about 4 miles); sheet 2-4, scale 1:750,000 (1 inch = about 12 miles). Sheet 1, 37 by 39 inches; sheet 2, 30 by 35 inches; sheet 3, 34 by 35 inches; sheet 4, 27 by 37 inches. (Reprint.)
HA-0651. CALIFORNIA. Ground-water quality in the Sacramento Valley, California; water types and potential nitrate and boron problem areas, by R. P. Fogelman. 1983. Lat about 38° 30' to about 40° 15', long about 121° 15' to about 122° 15'. Scale 1:250,000 (1 inch = about 4 miles.) Sheet 32 by 42 inches.


HA-0655. MISSISSIPPI. Flood of April 1979 on Pearl River in Jackson, Mississippi, and vicinity, by L. E. Carroon. 1982. Two sheets. Scale 1:24,000 (1 inch = 2,000 feet). Lat about 32° 10' to about 32° 25', long about 90° 02' 30" to about 90° 15'. Sheets 42 by 56 inches.

HA-0657. CALIFORNIA. Estimated average annual streamflow into the Central Valley of California, by Paul Nady, and L. L. Larragueta. 1983. Lat about 35° to about 40°, long about 119° to about 122°. Scale 1:500,000 (1 inch = about 8 miles). Sheet 35 by 55 inches.


HA-0661. MONTANA. Channel changes of Powder River, 1938-78, Powder River County, Montana, by H. A. Martinson, and R. H. Meade. 1983. Three sheets. Sheet 1, lat about 45° to about 45° 10', long about 105° 30' to about 105° 55'; sheet 2, lat about 45° 10' to about 45° 20', long about 105° 55' to about 106° 15'; sheet 3, lat about 45° 20' to about 45° 30', long about 106° 15' to about 107° 00'. Scale 1:24,000 (1 inch = 2,000 feet). Sheets 39 by 44 inches.

HA-0669. COLORADO. Geology, altitude, and depth of the bedrock surface beneath the Ogallala Formation in the northern High Plains of Colorado, by R. G. Borman, and T. S. Meredith. 1983. Scale 1:500,000 (1 inch = about 8 miles). Sheet 30 by 33 inches.

HA-0670. COLORADO. Predevelopment and 1980 water table in the northern High Plains of Colorado; water-level changes, predevelopment to 1980, and 1975 to 1980, by R. G. Borman. 1983. Scale 1:500,000 (1 inch = about 8 miles) and 1:1,000,000 (1 inch = about 16 miles). Sheet 28 by 31 inches.

HA-0671. COLORADO. The Ogallala Aquifer in the northern High Plains of Colorado; saturated thickness in 1980; saturated-thickness changes, predevelopment to 1980; hydraulic conductivity; specific yield; and predevelopment and 1980 probable well yields, by R. G. Borman, J. B. Lindner, S. M. Bryn, and John Rutledge. 1983. Scale 1:500,000 (1 inch = about 8 miles) and 1:1,000,000 (1 inch = about 16 miles). Sheet 32 by 38 inches.

LAND USE AND LAND COVER MAPS

Compiled using USGS Level I and II classification system depicting land cover and man's activities. Associated maps include political units, hydrologic units, census county subdivisions, and Federal land ownership. Scale 1:250,000 or 1:100,000.

The U.S. Geological Survey is now publishing its land use and land cover maps in a new two-color series. L-series maps have land use and land cover information printed in black over planimetric base map information such as transportation features, streams and lakes, locational grids, and place names in another color.

These maps have been available previously through the Survey's open-file procedure. Along with their associated maps (political units, census county subdivision, hydrologic units, and Federal land ownership), reproducible copies of the land use and land cover maps will continue to be available in black-line format, on a variety of materials, from the open file.

L-0104. TENNESSEE, VIRGINIA, KENTUCKY, NORTH CAROLINA. Land use and land cover, 1976-1978, Johnson City, Tennessee; Virginia; Kentucky; North Carolina. 1983. Lat 36° to 37°, long 76° to 78°. Scale 1:250,000 (1 inch = about 4 miles). Sheet 24 by 34 inches.

L-0105. VIRGINIA, NORTH CAROLINA. Land use and land cover, 1972, Norfolk, Virginia; North Carolina. 1983. Lat 36° to 37°, long 76° to 78°. Scale 1:250,000 (1 inch = about 4 miles). Sheet 23 by 34 inches.

L-0135. ARKANSAS, TENNESSEE, ALABAMA, MISSOURI. Land use and land cover, 1973, Blytheville, Arkansas; Tennessee; Alabama; Missouri. 1983. Lat 35° to 36°, long 88° to 90°. Scale 1:250,000 (1 inch = about 4 miles). Sheet 24 by 35 inches.

L-0168. MONTANA. Land use and land cover, 1975-1976, Great Falls South, Montana. 1983. Lat 47° to 47° 30', long 111° to 112°. Scale 1:100,000 (1 inch = about 1.6 miles). Sheet 27 by 36 inches.

L-0173. GEORGIA, SOUTH CAROLINA. Land use and land cover, 1973, Augusta, Georgia; South Carolina. 1983. Lat 33° to 34°, long 80° to 82°. Scale 1:250,000 (1 inch = about 4 miles). Sheet 24 by 35 inches.

L-0186. NEBRASKA, KANSAS. Land use and land cover, 1978, Grand Island, Nebraska; Kansas. 1983. Lat 40° to 41°, long 98° to 100°. Scale 1:250,000 (1 inch = about 4 miles). Sheet 24 by 33 inches.
## ABBREVIATIONS USED

| B | Bulletin | OF | Open-File Report |
| C | Circular | OP | Articles Published in Outside Journals/Books |
| C- | Coal Investigations Map | P | Professional Paper |
| GP- | Geophysical Investigations Map | p. | Page number of publications having no series designation |
| GQ- | Geologic Quadrangle Map | PB., ADA Report available only through the National Technical Information Service |
| HA- | Hydrologic Investigations Atlas | TWI | Techniques of Water-Resources Investigations |
| I- | Miscellaneous Investigations Series | W | Water-Supply Paper |
| L- | Land Use and Land Cover Map | WRI | Water-Resources Investigations |
| MF- | Miscellaneous Field Studies Map | | |
| MR- | Mineral Investigations Resources Map | | |
| OC- | Oil and Gas Investigations Chart | | |

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