Publications of the U.S. Geological Survey, 1985

DEPARTMENT OF THE INTERIOR

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U.S. GEOLOGICAL SURVEY

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BULLETINS

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C. Geochemical evaluation of the mineral and geothermal resources of the Charles Sheldon Wilderness Study Area, Nevada and Oregon, by J. B. Cathrall, D. F. Siems, G. L. Crenshaw, and E. F. Cooley, U.S. Geological Survey. p. 51-87

D. Economic appraisal of the Charles Sheldon Wilderness Study Area, Nevada and Oregon, by E. T. Tuchek, F. J. Johnson, and M. D. Conyac, U.S. Bureau of Mines. p. 89-139

B 1541. A laboratory-scale magnetohydrostatic separator and its application to mineralogic problems, by H. V. Alminas, T. L. Marceau, J. D. Hoffman, and R. C. Bigelow. 1984. 21 p. (Supersedes Open-file report 82-895.)

B 1546 A-D. CALIFORNIA, OREGON. Geological and geophysical studies of chromite deposits in the Josephine Peridotite, northwestern California and southwestern Oregon. 1984. 86 p.; 5 plates in pocket. (Published as one volume.)

Introduction. p. 1-5

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B 1607. Meromictic lakes and varved lake sediments in North America, by R. Y. Anderson, W. E. Dean, J. P. Bradbury, and David Love. 1985. 19 p.

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B 1614. ALASKA. Geology of the Nanushuk Group and related rocks, North Slope, Alaska, edited by A. C. Huffman, Jr. 1985. 129 p.

Introduction, by A. C. Huffman, Jr. p. 1-6

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United States Geological Survey yearbook, fiscal year 1984. 1985. 139 p.

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General Interest Publications briefly summarize, for nontechnical readers, the latest information on major topics in the earth sciences about which the Survey receives frequent inquiries from the general public. This series of booklets, brochures, leaflets, and essay reprints are written by Survey scientists and cover topics such as earthquakes, energy resources, ground water, landforms and land use, marine geology, rain, rocks and mineral resources.

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Periodicals

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For a complimentary copy write to Earthquake Information Bulletin, U.S. Geological Survey, 904 National Center, Reston, VA 22092.

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Earthquake Information Bulletin, vol. 16, no. 6, November-December 1984. p. 209-240

Earthquake Information Bulletin, v. 17, no. 1, January-February 1985. p. 1-40

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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) 860-6045. Unedited computer printouts are available for all other States and territories.

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CATALOGS

Publications of the U.S. Geological Survey, 1984. 1985. 325 p.

REPORTS AVAILABLE ONLY THROUGH NTIS

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PB-85 195 493/AS. MAINE, NEW HAMPSHIRE, VERMONT. Analytical results for stream-sediment and nonmagnetic heavy-mineral-concentrate samples collected from the Sherbrooke and Lewiston 1° by 2° quadrangles and the White Mountain Wilderness Study Area, Maine, New Hampshire, and Vermont, by S. K. McDanal, J. A. Domenico, F. H. Howd, F. C. Canney, and G. A. Nowlan. 1985. 1 tape.

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WRI 82-4120. ALASKA. Hydrogeology for land use planning; the Peters Creek area, Municipality of Anchorage, Alaska, by J. O. Brunett, and Michael Lee. 1982. (NC, Da, M, A, LA, SF, S; USGS, 1515 East 13th Ave., and 1209 Orca St., Anchorage, AK 99501.) Copies may be purchased from Municipality of Anchorage, Dep. Planning, 632 West 6th Ave., Anchorage, AK.

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OF 85-0635. Water Resources Division publications guide; Volume 1, Publications policy and text preparation, by A. J. Finch, and D. A. Aronson. 497 p. (NC, Da, M, Wb.)

OF 85-0641. KANSAS. Federal-State cooperative program in Kansas, seminar proceedings, July 1985, by T. L. Huntzinger. 39 p. (NC, Da, M, Wb, Db, T; USGS, WRD, 1950 Constant Ave., Campus West, Univ. of Kansas, Lawrence, KS 66046; and 206 Fulton Terrace, Garden City, KS.)

OF 85-0643. TEXAS. Delineation of the outcrop of the Edwards Aquifer hydrologically associated with Barton Springs in the Austin area, Texas, by A. F. Ardis, D. L. Slagle, and F. R. Snyder. 1 over-size sheet. (NC, Da, M, Wb; USGS, WRD, 300 East 8th St., Austin, TX 78701.)

OF 85-0644. FLORIDA. Potentiometric surface of the upper Floridan Aquifer in the St. Johns River Water Management District and vicinity, Florida, September 1985, by G. R. Schiner, and E. C. Hayes. 1 over-size sheet (NC, Da, M, Wb.)

Reports Available Only Through the National Cartographic Information Centers

For information on availability and price of these reports, write to the address indicated by a dagger (†) in the listing for the report.

OF 79-0349. CALIFORNIA. Land use and land cover and associated maps for Bakersfield, California. Lat 35° to 36°, long 118° to 120°. This data set consists of four maps keyed to USGS topographic map Bakersfield at 1:250,000 (1 inch = about 4 miles). These maps are coded for statistical development. The maps are (1) land use and land cover, (2) political unit, (3) hydrological units, and (4) census county subdivision. Also included is one positive of the cultural base for Bakersfield at 1:250,000. (†USGS, Mid-Continent Mapping Ctr. (NCIC-M), 1400 Independence Rd., Rolla, MO 65401.)

OF 79-0403. VIRGINIA, WEST VIRGINIA. Land use and land cover and associated maps for Charlottesville, Virginia; West Virginia. Lat 38° to 39°, long 78° to 80°. This data set consists of four maps keyed to USGS topographic map Charlottesville at 1:250,000 (1 inch = about 4 miles). These maps are coded for statistical development. The maps are (1) land use and land cover, (2) political unit, (3) hydrological units, and (4) census county subdivision. Also included is one positive of the cultural base for Charlottesville at 1:250,000. (†USGS, Mid-Continent Mapping Ctr. (NCIC-M), 1400 Independence Rd., Rolla, MO 65401.)

OF 79-0404. NORTH CAROLINA, VIRGINIA. Land use and land cover and associated maps for Greensboro, North Carolina; Virginia. Lat 36° to 37°, long 78° to 80°. This data set consists of four maps keyed to USGS topographic map Greensboro at 1:250,000 (1 inch = about 4 miles). These maps are coded for statistical development. The maps are (1) land use and land cover, (2) political unit, (3) hydrological units, and (4) census county subdivision. Also included is one positive of the cultural base for Greensboro at 1:250,000. (†USGS, Mid-Continent Mapping Ctr. (NCIC-M), 1400 Independence Rd., Rolla, MO 65401.)

OF 79-0407. VIRGINIA, WEST VIRGINIA. Land use and land cover and associated maps for Roanoke, Virginia; West Virginia. Lat 37° to 38°, long 78° to 80°. This data set consists of four maps keyed to USGS topographic map Roanoke at 1:250,000 (1 inch = about 4 miles). These maps are coded for statistical development. The maps are (1) land use and land cover, (2) political unit, (3) hydrological units, and (4) census county subdivision. Also included is one positive of the cultural base for Roanoke at 1:250,000. (†USGS, Mid-Continent Mapping Ctr. (NCIC-M), 1400 Independence Rd., Rolla, MO 65401.)

OF 79-0408. TENNESSEE, VIRGINIA, KENTUCKY, NORTH CAROLINA. Land use and land cover and associated maps for Johnson City, Tennessee; Virginia, Kentucky, North Carolina. Lat 37° to 38°, long 82° to 84°. This data set consists of four maps keyed to USGS topographic map Johnson City at 1:250,000 (1 inch = about 4 miles). These maps are coded for statistical development. The maps are (1) land use and land cover, (2) political unit, (3) hydrological units, and (4) census county subdivision. Also included is one positive of the cultural base for Johnson City at 1:250,000. (†USGS, Mid-Continent Mapping Ctr. (NCIC-M), 1400 Independence Rd., Rolla, MO 65401.)

OF 79-0575. NORTH CAROLINA, VIRGINIA, TENNESSEE. Land use and land cover and associated maps for Winston-Salem, North Carolina; Virginia, Tennessee. Lat 36° to 37°, long 80° to 82°. This data set consists of four maps keyed to USGS topographic map Winston-Salem at 1:250,000 (1 inch = about 4 miles). These maps are coded for statistical development. The maps are (1) land use and land cover, (2) political unit, (3) hydrological units, and (4) census county subdivision. Also included is one positive of the cultural base for Winston-Salem at 1:250,000. (†USGS, Mid-Continent Mapping Ctr. (NCIC-M), 1400 Independence Rd., Rolla, MO 65401.)

OF 79-0911. ARKANSAS, LOUISIANA. Land use and land cover and associated maps for El Dorado, Arkansas; Louisiana. Lat 33° to 34°, long 92° to 94°. This data set consists of six maps keyed to USGS topographic map El Dorado at 1:250,000 (1 inch = about 4 miles). These maps are coded for statistical development. The maps are (1) land use and land cover, (2) political unit, (3) hydrological units, (4) census county subdivision, (5) Federal land ownership, and (6) State land ownership. Also included is one positive of the cultural base for El Dorado at 1:250,000. (†USGS, Mid-Continent Mapping Ctr. (NCIC-M), 1400 Independence Rd., Rolla, MO 65401.)

OF 79-1151. CALIFORNIA, OREGON. Land use and land cover and associated maps for Weed, California; Oregon. Lat 41° to 42°, long 122° to 124°. This data set consists of four maps keyed to USGS topographic map Weed at 1:250,000 (1 inch = about 4 miles). These maps are coded for statistical development. The maps are (1) land use and land cover, (2) political unit, (3) hydrological units, and (4) census county subdivision. Also included is one positive of the cultural base for Weed at 1:250,000. (†USGS, Mid-Continent Mapping Ctr. (NCIC-M), 1400 Independence Rd., Rolla, MO 65401.)

OF 79-1174. CALIFORNIA, OREGON. Land use and land cover and associated maps for Eureka, California; Oregon. Lat 40° to 41°, long 124° to 126°. This data set consists of four maps keyed to USGS topographic map Eureka at 1:250,000 (1 inch = about 4 miles). These maps are coded for statistical development. The maps are (1) land use and land cover, (2) political unit, (3) hydrological units, and (4) census county subdivision. Also included is one positive of the cultural base for Eureka at 1:250,000. (†USGS, Mid-Continent Mapping Ctr. (NCIC-M), 1400 Independence Rd., Rolla, MO 65401.)

OF 80-0054. OHIO. Land use and land cover and associated maps for Marion, Ohio. Lat 40° to 41°, long 82° to 83°. This data set consists of four maps keyed to USGS topographic map Marion at 1:250,000 (1 inch = about 4 miles). These maps are coded for statistical development. The maps are (1) land use and land cover, (2) political unit, (3) hydrological units, and (4) census county subdivision. Also included is one positive of the cultural base for Marion at 1:250,000. (†USGS, Mid-Continent Mapping Ctr. (NCIC-M), 1400 Independence Rd., Rolla, MO 65401.)

OF 80-0152. CALIFORNIA. Land use and land cover and associated maps for Santa Rosa, California. Lat 38° to 39°, long 122° to 124°. This data set consists of four maps keyed to USGS topographic map Santa Rosa at 1:250,000 (1 inch = about 4 miles). These maps are coded for statistical development. The maps are (1) land use and land cover, (2) political unit, (3) hydrological units, and (4) census county subdivision. Also included is one positive of the cultural base for Santa Rosa at 1:250,000. (†USGS, Mid-Continent Mapping Ctr. (NCIC-M), 1400 Independence Rd., Rolla, MO 65401.)

OF 80-0171. OHIO. Land use and land cover and associated maps for Columbus, Ohio. Lat 39° to 40°, long 82° to 84°. This data set consists of four maps keyed to USGS topographic map Columbus at 1:250,000 (1 inch = about 4 miles). These maps are coded for statistical development. The maps are (1) land use and land cover, (2) political unit, (3) hydrological units, and (4) census county subdivision. Also included is one positive of the cultural base for Columbus at 1:250,000. (†USGS, Mid-Continent Mapping Ctr. (NCIC-M), 1400 Independence Rd., Rolla, MO 65401.)

OF 80-0172. OHIO, PENNSYLVANIA, WEST VIRGINIA. Land use and land cover and associated maps for Canton, Ohio; Pennsylvania, West Virginia. Lat 40° to 41°, long 80° to 82°. This data set consists of four maps keyed to USGS topographic map Canton at 1:250,000 (1 inch = about 4 miles). These maps are coded for statistical development. The maps are (1) land use and land cover, (2) political unit, (3) hydrological units, and (4) census county subdivision. Also included is one positive of the cultural base for Canton at 1:250,000. (†USGS, Mid-Continent Mapping Ctr. (NCIC-M), 1400 Independence Rd., Rolla, MO 65401.)

OF 80-0173. LOUISIANA, MISSISSIPPI. Land use and land cover and associated maps for Baton Rouge, Louisiana; Mississippi. Lat 30° to 31°, long 90° to 92°. This data set consists of six maps keyed to USGS topographic map Baton Rouge at 1:250,000 (1 inch = about 4 miles). These maps are coded for statistical development. The maps are (1) land use and land cover, (2) political unit, (3) hydrological units, (4) census county subdivision, (5) Federal land ownership, and (6) State land ownership. Also included is one positive of the cultural base for Baton Rouge at 1:250,000. (†USGS, Mid-Continent Mapping Ctr. (NCIC-M), 1400 Independence Rd., Rolla, MO 65401.)

OF 80-0174. LOUISIANA. Land use and land cover and associated maps for Breton Sound, Louisiana. Lat 29° to 30°, long 88° to 90°. This data set consists of six maps keyed to USGS topographic map Breton Sound at 1:250,000 (1 inch = about 4 miles). These maps are coded for statistical development. The maps are (1) land use and land cover, (2) political unit, (3) hydrological units, (4) census county subdivision, (5) Federal land ownership, and (6) State land ownership. Also included is one positive of the cultural base for Breton Sound at 1:250,000. (†USGS, Mid-Continent Mapping Ctr. (NCIC-M), 1400 Independence Rd., Rolla, MO 65401.)

OF 80-0497. WISCONSIN. Land use and land cover and associated maps for Green Bay, Wisconsin. Lat 44° to 45°, long 88° to 90°. This data set consists of four maps keyed to USGS topographic map Green Bay at 1:250,000 (1 inch = about 4 miles). These maps are coded for statistical development. The maps are (1) land use and land cover, (2) political unit, (3) hydrological units, and (4) census county subdivision. Also included is one positive of the cultural base for Green Bay at 1:250,000. (†USGS, Mid-Continent Mapping Ctr. (NCIC-M), 1400 Independence Rd., Rolla, MO 65401.)

OF 80-0498. LOUISIANA. Land use and land cover and associated maps for Shreveport, Louisiana. Lat 32° to 33°, long 92° to 94°. This data set consists of six maps keyed to USGS topographic map Shreveport at 1:250,000 (1 inch = about 4 miles). These maps are coded for statistical development. The maps are (1) land use and land cover, (2) political unit, (3) hydrological units, (4) census county subdivision, (5) Federal land ownership, and (6) State land ownership. Also included is one positive of the cultural base for Shreveport at 1:250,000. (†USGS, Mid-Continent Mapping Ctr. (NCIC-M), 1400 Independence Rd., Rolla, MO 65401.)

OF 80-0630. MINNESOTA, WISCONSIN. Land use and land cover and associated maps for Duluth, Minnesota; Wisconsin. Lat 46° to 47°, long 92° to 94°. This data set consists of four maps keyed to USGS topographic map Duluth at 1:250,000 (1 inch = about 4 miles). These maps are coded for statistical development. The maps are (1) land use and land cover, (2) political unit, (3) hydrological units, and (4) census county subdivision. Also included is one positive of the cultural base for Duluth at 1:250,000. (†USGS, Mid-Continent Mapping Ctr. (NCIC-M), 1400 Independence Rd., Rolla, MO 65401.)

OF 80-0632. MINNESOTA. Land use and land cover and associated maps for Kenora, Ontario; Manitoba, Canada; Minnesota, U.S. Lat 49° to 50°, long 94° to 96°. This data set consists of four maps keyed to USGS topographic map Kenora at 1:250,000 (1 inch = about 4 miles). These maps are coded for statistical development. The maps are (1) land use and land cover, (2) political unit, (3) hydrological units, and (4) census county subdivision. Also included is one positive of the cultural base for Kenora at 1:250,000. (†USGS, Mid-Continent Mapping Ctr. (NCIC-M), 1400 Independence Rd., Rolla, MO 65401.)

OF 80-0637. MICHIGAN. Land use and land cover and associated maps for Tawas City, Michigan, U.S.; Ontario, Canada. Lat 44° to 45°, long 82° to 84°. This data set consists of four maps keyed to USGS topographic map Tawas City at 1:250,000 (1 inch = about 4 miles). These maps are coded for statistical development. The maps are (1) land use and land cover, (2) political unit, (3) hydrological units, and (4) census county subdivision. Also included is one positive of the cultural base for Tawas City at 1:250,000. (†USGS, Mid-Continent Mapping Ctr. (NCIC-M), 1400 Independence Rd., Rolla, MO 65401.)

OF 80-0854. LOUISIANA, TEXAS. Land use and land cover and associated maps for Alexandria, Louisiana; Texas. Lat 31° to 32°, long 92° to 94°. This data set consists of six maps keyed to USGS topographic map Alexandria at 1:250,000 (1 inch = about 4 miles). These maps are coded for statistical development. The maps are (1) land use and land cover, (2) political unit, (3) hydrological units, (4) census county subdivision, (5) Federal land ownership, and (6) State land ownership. Also included is one positive of the cultural base for Alexandria at 1:250,000. (†USGS, Mid-Continent Mapping Ctr. (NCIC-M), 1400 Independence Rd., Rolla, MO 65401.)

OF 80-0855. MISSISSIPPI, LOUISIANA. Land use and land cover and associated maps for Natchez, Mississippi; Louisiana. Lat 31° to 32°, long 90° to 92°. This data set consists of six maps keyed to USGS topographic map Natchez at 1:250,000 (1 inch = about 4 miles). These maps are coded for statistical development. The maps are (1) land use and land cover, (2) political unit, (3) hydrological units, (4) census county subdivision, (5) Federal land ownership, and (6) State land ownership. Also included is one positive of the cultural base for Natchez at 1:250,000. (†USGS, Mid-Continent Mapping Ctr. (NCIC-M), 1400 Independence Rd., Rolla, MO 65401.)

OF 81-0018. MINNESOTA. Land use and land cover and associated maps for Roseau, Minnesota, U.S.; Manitoba, Ontario, Canada. Lat 48° to 49°, long 94° to 96°. This data set consists of four maps keyed to USGS topographic map Roseau at 1:250,000 (1 inch = about 4 miles). These maps are coded for statistical development. The maps are (1) land use and land cover, (2) political unit, (3) hydrological units, and (4) census county subdivision. Also included is one positive of the cultural base for Roseau at 1:250,000. (†USGS, Mid-Continent Mapping Ctr. (NCIC-M), 1400 Independence Rd., Rolla, MO 65401.)

OF 82-0243. MICHIGAN, WISCONSIN. Land use and land cover and associated maps for Iron Mountain, Michigan; Wisconsin. Lat 45° to 46°, long 88° to 90°. This data set consists of four maps keyed to USGS topographic map Iron Mountain at 1:250,000 (1 inch = about 4 miles). These maps are coded for statistical development. The maps are (1) land use and land cover, (2) political unit, (3) hydrological units, and (4) census county subdivision. Also included is one positive of the cultural base for Iron Mountain at 1:250,000. (†USGS, Mid-Continent Mapping Ctr. (NCIC-M), 1400 Independence Rd., Rolla, MO 65401.)

OF 82-0245. WISCONSIN. Land use and land cover and associated maps for Rice Lake, Wisconsin. Lat 45° to 46°, long 90° to 92°. This data set consists of four maps keyed to USGS topographic map Rice Lake at 1:250,000 (1 inch = about 4 miles). These maps are coded for statistical development. The maps are (1) land use and land cover, (2) political unit, (3) hydrological units, and (4) census county subdivision. Also included is one positive of the cultural base for Rice Lake at 1:250,000. (†USGS, Mid-Continent Mapping Ctr. (NCIC-M), 1400 Independence Rd., Rolla, MO 65401.)

OF 82-0249. NEBRASKA. Land use and land cover and associated maps for Lincoln, Nebraska. Lat 40° to 41°, long 96° to 98°. This data set consists of four maps keyed to USGS topographic map Lincoln at 1:250,000 (1 inch = about 4 miles). These maps are coded for statistical development. The maps are (1) land use and land cover, (2) political unit, (3) hydrological units, and (4) census county subdivision. Also included is one positive of the cultural base for Lincoln at 1:250,000. (†USGS, Mid-Continent Mapping Ctr. (NCIC-M), 1400 Independence Rd., Rolla, MO 65401.)

OF 83-0555. TEXAS. Land use and land cover and associated maps for Austin, Texas. Lat 30° to 31°, long 96° to 98°. This data set consists of four maps keyed to USGS topographic map Austin at 1:250,000 (1 inch = about 4 miles). These maps are coded for statistical development. The maps are (1) land use and land cover, (2) political unit, (3) hydrological units, and (4) census county subdivision. Also included is one positive of the cultural base for Austin at 1:250,000. (†USGS, Mid-Continent Mapping Ctr. (NCIC-M), 1400 Independence Rd., Rolla, MO 65401.)

OF 83-0556. NEW YORK. Land use and land cover and associated maps for Ogdensburg, New York, U.S.; Canada. Lat 44° to 45°, long 74° to 76°. This data set consists of four maps keyed to USGS topographic map Ogdensburg at 1:250,000 (1 inch = about 4 miles). These maps are coded for statistical development. The maps are (1) land use and land cover, (2) political unit, (3) hydrological units, and (4) census county subdivision. Also included is one positive of the cultural base for Ogdensburg at 1:250,000. (†USGS, Mid-Continent Mapping Ctr. (NCIC-M), 1400 Independence Rd., Rolla, MO 65401.)

OF 83-0573. TEXAS. Land use and land cover and associated maps for Van Horn, Texas. Lat 31° to 32°, long 104° to 106°. This data set consists of four maps keyed to USGS topographic map Van Horn at 1:250,000 (1 inch = about 4 miles). These maps are coded for statistical development. The maps are (1) land use and land cover, (2) political unit, (3) hydrological units, and (4) census county subdivision. Also included is one positive of the cultural base for Van Horn. (†USGS, Mid-Continent Mapping Ctr. (NCIC-M), 1400 Independence Rd., Rolla, MO 65401.)

OF 83-0574. TEXAS. Land use and land cover and associated maps for Marfa, Texas. Lat 30° to 31°, long 104° to 106°. This data set consists of four maps keyed to USGS topographic map Marfa at 1:250,000 (1 inch = about 4 miles). These maps are coded for statistical development. The maps are (1) land use and land cover, (2) political unit, (3) hydrological units, and (4) census county subdivision. Also included is one positive of the cultural base for Marfa at 1:250,000. (†USGS, Mid-Continent Mapping Ctr. (NCIC-M), 1400 Independence Rd., Rolla, MO 65401.)

OF 83-0575. TEXAS. Land use and land cover and associated maps for Presidio, Texas. Lat 29° to 30°, long 104° to 106°. This data set consists of four maps keyed to USGS topographic map Presidio at 1:250,000 (1 inch = about 4 miles). These maps are coded for statistical development. The maps are (1) land use and land cover, (2) political unit, (3) hydrological units, and (4) census county subdivision. Also included is one positive of the cultural base for Presidio at 1:250,000. (†USGS, Mid-Continent Mapping Ctr. (NCIC-M), 1400 Independence Rd., Rolla, MO 65401.)

OF 83-0878. OREGON. Land use and land cover and associated maps for Adel, Oregon. Lat 42° to 43°, long 118° to 120°. This data set consists of four maps keyed to USGS topographic map Adel at 1:250,000 (1 inch = about 4 miles). These maps are coded for statistical development. The maps are (1) land use and land cover, (2) political unit, (3) hydrological units, and (4) census county subdivision. Also included is one positive of the cultural base for Adel at 1:250,000. (†USGS, Mid-Continent Mapping Ctr. (NCIC-M), 1400 Independence Rd., Rolla, MO 65401.)

OF 83-0879. MINNESOTA, IOWA. Land use and land cover and associated maps for Fairmont, Minnesota; Iowa. Lat 43° to 44°, long 94° to 96°. This data set consists of four maps keyed to USGS topographic map Fairmont at 1:250,000 (1 inch = about 4 miles). These maps are coded for statistical development. The maps are (1) land use and land cover, (2) political unit, (3) hydrological units, and (4) census county subdivision. Also included is one positive of the cultural base for Fairmont at 1:250,000. (†USGS, Mid-Continent Mapping Ctr. (NCIC-M), 1400 Independence Rd., Rolla, MO 65401.)

OF 84-0026. MICHIGAN. Land use and land cover and associated maps for Blind River, Ontario, Canada; Michigan, U.S. Lat 46° to 47°, long 82° to 84°. This data set consists of four maps keyed to USGS topographic map Blind River at 1:250,000 (1 inch = about 4 miles). These maps are coded for statistical development. The maps are (1) land use and land cover, (2) political unit, (3) hydrological units, and (4) census county subdivision. Also included is one positive of the cultural base for Blind River at 1:250,000. (†USGS, Mid-Continent Mapping Ctr. (NCIC-M), 1400 Independence Rd., Rolla, MO 65401.)

OF 84-0027. MICHIGAN. Land use and land cover and associated maps for Alpena, Michigan, U.S.; Ontario, Canada. Lat 45° to 46°, long 82° to 84°. This data set consists of four maps keyed to USGS topographic map Alpena at 1:250,000 (1 inch = about 4 miles). These maps are coded for statistical development. The maps are (1) land use and land cover, (2) political unit, (3) hydrological units, and (4) census county subdivision. Also included is one positive of the cultural base for Alpena at 1:250,000. (†USGS, Mid-Continent Mapping Ctr. (NCIC-M), 1400 Independence Rd., Rolla, MO 65401.)

OF 84-0028. NEW YORK, PENNSYLVANIA. Land use and land cover and associated maps for Buffalo, New York; Pennsylvania; U.S.; Ontario, Canada. Lat 42° to 43°, long 78° to 80°. This data set consists of four maps keyed to USGS topographic map Buffalo at 1:250,000 (1 inch = about 4 miles). These maps are coded for statistical development. The maps are (1) land use and land cover, (2) political unit, (3) hydrological units, and (4) census county subdivision. Also included is one positive of the cultural base for Buffalo at 1:250,000. (†USGS, Mid-Continent Mapping Ctr. (NCIC-M), 1400 Independence Rd., Rolla, MO 65401.)

OF 84-0029. NEW YORK. Land use and land cover and associated maps for Kingston, Ontario, Canada; New York, U.S. Lat 44° to 45°, long 76° to 78°. This data set consists of four maps keyed to USGS topographic map Kingston at 1:250,000 (1 inch = about 4 miles). These maps are coded for statistical development. The maps are (1) land use and land cover, (2) political unit, (3) hydrological units, and (4) census county subdivision. Also included is one positive of the cultural base for Kingston at 1:250,000. (†USGS, Mid-Continent Mapping Ctr. (NCIC-M), 1400 Independence Rd., Rolla, MO 65401.)

OF 84-0030. NEW YORK. Land use and land cover and associated maps for Rochester, New York, U.S.; Ontario, Canada. Lat 43° to 44°, long 76° to 78°. This data set consists of four maps keyed to USGS topographic map Rochester at 1:250,000 (1 inch = about 4 miles). These maps are coded for statistical development. The maps are (1) land use and land cover, (2) political unit, (3) hydrological units, and (4) census county subdivision. Also included is one positive of the cultural base for Rochester at 1:250,000. (†USGS, Mid-Continent Mapping Ctr. (NCIC-M), 1400 Independence Rd., Rolla, MO 65401.)

OF 84-0031. NEW YORK. Land use and land cover and associated maps for Toronto, Canada; New York, U.S. Lat 43° to 44°, long 78° to 80°. This data set consists of four maps keyed to USGS topographic map Toronto at 1:250,000 (1 inch = about 4 miles). These maps are coded for statistical development. The maps are (1) land use and land cover, (2) political unit, (3) hydrological units, and (4) census county subdivision. Also included is one positive of the cultural base for Toronto at 1:250,000. (†USGS, Mid-Continent Mapping Ctr. (NCIC-M), 1400 Independence Rd., Rolla, MO 65401.)

OF 84-0032. NORTH DAKOTA. Land use and land cover and associated maps for Bismarck, North Dakota. Lat 46° to 47°, long 100° to 102°. This data set consists of four maps keyed to USGS topographic map Bismarck at 1:250,000 (1 inch = about 4 miles). These maps are coded for statistical development. The maps are (1) land use and land cover, (2) political unit, (3) hydrological units, and (4) census county subdivision. Also included is one positive of the cultural base for Bismarck at 1:250,000. (†USGS, Mid-Continent Mapping Ctr. (NCIC-M), 1400 Independence Rd., Rolla, MO 65401.)

OF 84-0033. WISCONSIN, IOWA, MINNESOTA. Land use and land cover and associated maps for La Crosse, Wisconsin; Iowa; Minnesota. Lat 43° to 44°, long 90° to 92°. This data set consists of four maps keyed to USGS topographic map La Crosse at 1:250,000 (1 inch = about 4 miles). These maps are coded for statistical development. The maps are (1) land use and land cover, (2) political unit, (3) hydrological units, and (4) census county subdivision. Also included is one positive of the cultural base for La Crosse at 1:250,000. (†USGS, Mid-Continent Mapping Ctr. (NCIC-M), 1400 Independence Rd., Rolla, MO 65401.)

OF 84-0034. MICHIGAN. Land use and land cover and associated maps for Midland, Michigan. Lat 43° to 44°, long 84° to 86°. This data set consists of four maps keyed to USGS topographic map Midland at 1:250,000 (1 inch = about 4 miles). These maps are coded for statistical development. The maps are (1) land use and land cover, (2) political unit, (3) hydrological units, and (4) census county subdivision. Also included is one positive of the cultural base for Midland at 1:250,000. (†USGS, Mid-Continent Mapping Ctr. (NCIC-M), 1400 Independence Rd., Rolla, MO 65401.)

OF 84-0035. MICHIGAN. Land use and land cover and associated maps for Sault Sainte Marie, Michigan, U.S.; Ontario, Canada. Lat 46° to 47°, long 84° to 86°. This data set consists of four maps keyed to USGS topographic map Sault Sainte Marie at 1:250,000 (1 inch = about 4 miles). These maps are coded for statistical development. The maps are (1) land use and land cover, (2) political unit, (3) hydrological units, and (4) census county subdivision. Also included is one positive of the cultural base for Sault Sainte Marie at 1:250,000. (†USGS, Mid-Continent Mapping Ctr. (NCIC-M), 1400 Independence Rd., Rolla, MO 65401.)

OF 84-0176. SOUTH DAKOTA, NORTH DAKOTA. Land use and land cover and associated maps for McIntosh, South Dakota-North Dakota. Lat 45° to 46°, long 100° 102°. This data set consists of four maps keyed to USGS topographic map McIntosh at 1:250,000 (1 inch = about 4 miles). These maps are coded for statistical development. The maps are (1) land use and land cover, (2) political unit, (3) hydrological units, and (4) census county subdivision. Also included is one positive of the cultural base for McIntosh at 1:250,000. (†USGS, Mid-Continent Mapping Ctr. (NCIC-M), 1400 Independence Rd., Rolla, MO 65401.)

OF 84-0178. MICHIGAN, WISCONSIN. Land use and land cover and associated maps for Iron River, Michigan; Wisconsin. Lat 46° to 47°, long 88° to 90°. This data set consists of four maps keyed to USGS topographic map Iron River at 1:250,000 (1 inch = about 4 miles). These maps are coded for statistical development. The maps are (1) land use and land cover, (2) political unit, (3) hydrological units, and (4) census county subdivision. Also included is one positive of the cultural base for Iron River at 1:250,000. (†USGS, Mid-Continent Mapping Ctr. (NCIC-M), 1400 Independence Rd., Rolla, MO 65401.)

OF 84-0179. IOWA. Land use and land cover and associated maps for Ft. Dodge, Iowa. Lat 42° to 43°, long 94° to 96°. This data set consists of four maps keyed to USGS topographic map Ft. Dodge at 1:250,000 (1 inch = about 4 miles). These maps are coded for statistical development. The maps are (1) land use and land cover, (2) political unit, (3) hydrological units, and (4) census county subdivision. Also included is one positive of the cultural base for Ft. Dodge at 1:250,000. (†USGS, Mid-Continent Mapping Ctr. (NCIC-M), 1400 Independence Rd., Rolla, MO 65401.)

OF 84-0180. TEXAS. Land use and land cover and associated maps for Brownwood, Texas. Lat 31° to 32°, long 98° to 110°. This data set consists of four maps keyed to USGS topographic map Brownwood at 1:250,000 (1 inch = about 4 miles). These maps are coded for statistical development. The maps are (1) land use and land cover, (2) political unit, (3) hydrological units, and (4) census county subdivision. Also included is one positive of the cultural base for Brownwood at 1:250,000. (†USGS, Mid-Continent Mapping Ctr. (NCIC-M), 1400 Independence Rd., Rolla, MO 65401.

OF 84-0182. NEW MEXICO, COLORADO. Land use and land cover and associated maps for Raton, New Mexico; Colorado. Lat 36° to 37°, long 104° to 106°. This data set consists of four maps keyed to USGS topographic map Raton at 1:250,000 (1 inch = about 4 miles). These maps are coded for statistical development. The maps are (1) land use and land cover, (2) political unit, (3) hydrological units, and (4) census county subdivision. Also included is one positive of the cultural base for Raton at 1:250,000. (†USGS, Mid-Continent Mapping Ctr. (NCIC-M), 1400 Independence Rd., Rolla, MO 65401.)

OF 84-0183. NORTH DAKOTA. Land use and land cover and associated maps for McClusky, North Dakota. Lat 47° to 48°, long 100° to 102°. This data set consists of four maps keyed to USGS topographic map McClusky at 1:250,000 (1 inch = about 4 miles). The maps are coded for statistical development. The maps are (1) land use and land cover, (2) political unit, (3) hydrological units, and (4) census county subdivision. Also included is one positive of the cultural base for McClusky at 1:250,000. (†USGS, Mid-Continent Mapping Ctr. (NCIC-M), 1400 Independence Rd., Rolla, MO 65401.)

OF 84-0184. IOWA, MISSOURI. Land use and land cover and associated maps for Centerville, Iowa; Missouri. Lat 40° to 41°, long 92° to 94°. This data set consists of four maps keyed to USGS topographic map Centerville at 1:250,000 (1 inch = about 4 miles). These maps are coded for statistical development. The maps are (1) land use and land cover, (2) political unit, (3) hydrological units, and (4) census county subdivision. Also included is one positive of the cultural base for Centerville at 1:250,000. (†USGS, Mid-Continent Mapping Ctr. (NCIC-M), 1400 Independence Rd., Rolla, MO 65401.)

OF 84-0186. MONTANA. Land use and land cover and associated maps for Kalispell, Montana, U.S.; British Columbia, Alberta, Canada. Lat 48° to 49°, long 114° to 116°. This data set consists of four maps keyed to USGS topographic map Kalispell at 1:250,000 (1 inch = about 4 miles). These maps are coded for statistical development. The maps are (1) land use and land cover, (2) political unit, (3) hydrological units, and (4) census county subdivision. Also included is one positive of the cultural base for Kalispell at 1:250,000. (†USGS, Mid-Continent Mapping Ctr. (NCIC-M), 1400 Independence Rd., Rolla, MO 65401.)

OF 84-0187. IOWA. Land use and land cover and associated maps for Des Moines, Iowa. Lat 41° to 42°, long 92° to 94°. This data set consists of four maps keyed to USGS topographic map Des Moines at 1:250,000 (1 inch = about 4 miles). These maps are coded for statistical development. The maps are (1) land use and land cover, (2) political unit, (3) hydrological units, and (4) census county subdivision. Also included is one positive of the cultural base for Des Moines at 1:250,000. (†USGS, Mid-Continent Mapping Ctr. (NCIC-M), 1400 Independence Rd., Rolla, MO 65401.)

OF 84-0188. IOWA. Land use and land cover and associated maps for Waterloo, Iowa. Lat 42° to 43°, long 92° to 94°. This data set consists of four maps keyed to USGS topographic map Waterloo at 1:250,000 (1 inch = about 4 miles). These maps are coded for statistical development. The maps are (1) land use and land cover, (2) political unit, (3) hydrological units, and (4) census county subdivision. Also included is one positive of the cultural base for Waterloo at 1:250,000. (†USGS, Mid-Continent Mapping Ctr. (NCIC-M), 1400 Independence Rd., Rolla, MO 65401.)

OF 84-0189. UTAH, IDAHO. Land use and land cover and associated maps for Brigham City, Utah; Idaho. Lat 41° to 42°, long 112° to 114°. This data set consists of four maps keyed to USGS topographic map Brigham City at 1:250,000 (1 inch = about 4 miles). These maps are coded for statistical development. The maps are (1) land use and land cover, (2) political unit, (3) hydrological units, and (4) census county subdivision. Also included is one positive of the cultural base for Brigham City at 1:250,000. (†USGS, Mid-Continent Mapping Ctr. NCIC-M), 1400 Independence Rd., Rolla, MO 65401.)

OF 84-0190. MONTANA. Land use and land cover and associated maps for Shelby, Montana, U.S.; Alberta, Canada. Lat 48° to 49°, long 110° to 112°. This data set consists of four maps keyed to USGS topographic map Shelby at 1:250,000 (1 inch = about 4 miles). These maps are coded for statistical development. The maps are (1) land use and land cover, (2) political unit, (3) hydrological units, and (4) census county subdivision. Also included is one positive of the cultural base for Shelby at 1:250,000. (†USGS, Mid-Continent Mapping Ctr. (NCIC-M), 1400 Independence Rd., Rolla, MO 65401.)

OF 84-0191. MICHIGAN, MINNESOTA. Land use and land cover and associated maps for Thunder Bay, Ontario, Canada; Michigan, Minnesota, U.S. Lat 48° to 49°, long 88° to 90°. This data set consists of four maps keyed to USGS topographic map Thunder Bay at 1:250,000 (1 inch = about 4 miles). These maps are coded for statistical development. The maps are (1) land use and land cover, (2) political unit, (3) hydrological units, and (4) census county subdivision. Also included is one positive of the cultural base for Thunder Bay at 1:250,000. (†USGS, Mid-Continent Mapping Ctr. (NCIC-M), 1400 Independence Rd., Rolla, MO 65401.)

OF 84-0192. MONTANA, IDAHO. Land use and land cover and associated maps for Wallace, Montana-Idaho. Lat 47° to 48°, long 114° to 116°. This data set consists of four maps keyed to USGS topographic map Wallace at 1:250,000 (1 inch = about 4 miles). These maps are coded for statistical development. The maps are (1) land use and land cover, (2) political unit, (3) hydrological units, and (4) census county subdivision. Also included is one positive of the cultural base for Wallace at 1:250,000. (†USGS, Mid-Continent Mapping Ctr. (NCIC-M), 1400 Independence Rd., Rolla, MO 65401.)

OF 84-0193. SOUTH DAKOTA, NORTH DAKOTA. Land use and land cover and associated maps for Lemmon, South Dakota-North Dakota. Lat 45° to 46°, long 102° to 104°. This data set consists of four maps keyed to USGS topographic map Lemmon at 1:250,000 (1 inch = about 4 miles). These maps are coded for statistical development. The maps are (1) land use and land cover, (2) political unit, (3) hydrological units, and (4) census county subdivision. Also included is one positive of the cultural base for Lemmon at 1:250,000. (†USGS, Mid-Continent Mapping Ctr. (NCIC-M), 1400 Independence Rd., Rolla, MO 65401.)

OF 84-0194. OREGON, IDAHO. Land use and land cover and associated maps for Jordan Valley, Oregon-Idaho. Lat 42° to 43°, long 116° to 118°. This data set consists of four maps keyed to USGS topographic map Jordan Valley at 1:250,000 (1 inch = about 4 miles). These maps are coded for statistical development. The maps are (1) land use and land cover, (2) political unit, (3) hydrological units, and (4) census county subdivision. Also included is one positive of the cultural base for Jordan Valley at 1:250,000. (†USGS, Mid-Continent Mapping Ctr. (NCIC-M), 1400 Independence Rd., Rolla, MO 65401.)

OF 84-0195. NEW MEXICO. Land use and land cover and associated maps for Ft. Sumner, New Mexico. Lat 34° to 35°, long 104° to 106°. This data set consists of four maps keyed to USGS topographic map Ft. Sumner at 1:250,000 (1 inch = about 4 miles). These maps are coded for statistical development. The maps are (1) land use and land cover, (2) political unit, (3) hydrological units, and (4) census county subdivision. Also included is one positive of the cultural base for Ft. Sumner at 1:250,000. (†USGS, Mid-Continent Mapping Ctr. (NCIC-M), 1400 Independence Rd., Rolla, MO 65401.)

OF 84-0196. NEBRASKA, IOWA. Land use and land cover and associated maps for Omaha, Nebraska; Iowa. Lat 41° to 42°, long 94° to 96°. This data set consists of four maps keyed to USGS topographic map Omaha at 1:250,000 (1 inch = about 4 miles). These maps are coded for statistical development. The maps are (1) land use and land cover, (2) political unit, (3) hydrological units, and (4) census county subdivision. Also included is one positive of the cultural base for Omaha at 1:250,000. (†USGS, Mid-Continent Mapping Ctr. (NCIC-M), 1400 Independence Rd., Rolla, MO 65401.)

OF 84-0197. MONTANA. Land use and land cover and associated maps for Havre, Montana. Lat 48° to 49°, long 108° to 110°. This data set consists of four maps keyed to USGS topographic map Havre at 1:250,000 (1 inch = about 4 miles). These maps are coded for statistical development. The maps are (1) land use and land cover, (2) political unit, (3) hydrological units, and (4) census county subdivision. Also included is one positive of the cultural base for Havre at 1:250,000. (†USGS, Mid-Continent Mapping Ctr. (NCIC-M), 1400 Independence Rd., Rolla, MO 65401.)

OF 84-0198. NEW MEXICO. Land use and land cover and associated maps for Santa Fe, New Mexico. Lat 35° to 36°, long 104° to 106°. This data set consists of four maps keyed to USGS topographic map Santa Fe at 1:250,000 (1 inch = about 4 miles). These maps are coded for statistical development. The maps are (1) land use and land cover, (2) political unit, (3) hydrological units, and (4) census county subdivision. Also included is one positive of the cultural base for Santa Fe at 1:250,000. (†USGS, Mid-Continent Mapping Ctr. (NCIC-M), 1400 Independence Rd., Rolla, MO 65401.)

OF 84-0199. NORTH DAKOTA, MINNESOTA. Land use and land cover and associated maps for Grand Forks, North Dakota; Minnesota. Lat 47° to 48°, long 96° to 98°. This data set consists of four maps keyed to USGS topographic map Grand Forks at 1:250,000 (1 inch = about 4 miles). These maps are coded for statistical development. The maps are (1) land use and land cover, (2) political unit, (3) hydrological units, and (4) census county subdivision. Also included is one positive of the cultural base for Grand Forks at 1:250,000. (†USGS, Mid-Continent Mapping Ctr. (NCIC-M), 1400 Independence Rd., Rolla, MO 65401.)

OF 84-0200. NEBRASKA, MISSOURI, IOWA, KANSAS. Land use and land cover and associated maps for Nebraska City, Nebraska; Missouri, Iowa, Kansas. Lat 40° to 41°, long 94° to 96°. This data set consists of four maps keyed to USGS topographic map Nebraska City at 1:250,000 (1 inch = about 4 miles). These maps are coded for statistical development. The maps are (1) land use and land cover, (2) political unit, (3) hydrological units, and (4) census county subdivision. Also included is one positive of the cultural base for Nebraska City at 1:250,000. (†USGS, Mid-Continent Mapping Ctr. (NCIC-M), 1400 Independence Rd., Rolla, MO 65401.)

OF 84-0310. CONNECTICUT. 7.5 minute land use and land cover map for Broad Brook, Connecticut, by R. A. Johnson. 1 over-size sheet, scale 1:24,000 (1 inch = 2,000 feet.) Lat 41°52′30″ to 42°; long 72°30′ to 72°37′30″. This data set consists of one map keyed to USGS orthophotoquad Broad Brook. (†USGS, Eastern Mapping Ctr. (NCIC-E), National Ctr., Reston, VA 22092.)

OF 84-0311. CONNECTICUT. 7.5 minute land use and land cover map for Ellington, Connecticut, by T. L. Johnson. 1 over-size sheet, scale 1:24,000 (1 inch = 2,000 feet.) Lat 41°52′ 30″ to 42°, long 72°22′30″ to 72°30′. This data set consists of one map keyed to USGS orthophotoquad Ellington. (†USGS, Eastern Mapping Ctr. (NCIC-E), National Ctr., Reston, VA 22092.)

OF 84-0321. COLORADO. Land use and land cover and associated maps for Leadville, Colorado. Lat 39° to 40°, long 106° to 108°. This data set consists of four maps keyed to USGS topographic map Leadville at 1:250,000 (1 inch = about 4 miles). These maps are coded for statistical development. The maps are (1) land use and land cover, (2) political unit, (3) hydrological units, and (4) census county subdivision. Also included is one positive of the cultural base for Leadville at 1:250,000. (†USGS, Mid-Continent Mapping Ctr. (NCIC-M), 1400 Independence Rd., Rolla, MO 65401.)

OF 84-0324. IOWA, MINNESOTA. Land use and land cover and associated maps for Mason City, Iowa; Minnesota. Lat 43° to 44°, long 92° to 94°. This data set consists of four maps keyed to USGS topographic map Mason City at 1:250,000 (1 inch = about 4 miles). These maps are coded for statistical development. The maps are (1) land use and land cover, (2) political unit, (3) hydrological units, and (4) census county subdivision. Also included is one positive of the cultural base for Mason City at 1:250,000. (†USGS, Mid-Continent Mapping Ctr. (NCIC-M), 1400 Independence Rd., Rolla, MO 65401.)

OF 84-0530. NEW MEXICO. Land use and land cover and associated maps for Roswell, New Mexico. Lat 33° to 34°, long 104° to 106°. This data set consists of four maps keyed to USGS topographic map Roswell at 1:250,000 (1 inch = about 4 miles). These maps are coded for statistical development. The maps are (1) land use and land cover, (2) political unit, (3) hydrological units, and (4) census county subdivision. Also included is one positive of the cultural base for Roswell at 1:250,000. (†USGS, Mid-Continent Mapping Ctr. (NCIC-M), 1400 Independence Rd., Rolla, MO 65401.)

OF 84-0534. OKLAHOMA. Land use and land cover and associated maps for Clinton, Oklahoma. Lat 35° to 36°, long 98° to 100°. This data set consists of four maps keyed to USGS topographic map Clinton at 1:250,000 (1 inch = about 4 miles). These maps are coded for statistical development. The maps are (1) land use and land cover, (2) political unit, (3) hydrological units, and (4) census county subdivision. Also included is one positive of the cultural base for Clinton at 1:250,000. (†USGS, Mid-Continent Mapping Ctr. (NCIC-M), 1400 Independence Rd., Rolla, MO 65401.)

OF 84-0537. TEXAS. Land use and land cover and associated maps for Abilene, Texas. Lat 32° to 33°, long 98° to 100°. This data set consists of four maps keyed to USGS topographic map Abilene at 1:250,000 (1 inch = about 4 miles). These maps are coded for statistical development. The maps are (1) land use and land cover, (2) political unit, (3) hydrological units, and (4) census county subdivision. Also included is one positive of the cultural base for Abilene at 1:250,000. (†USGS, Mid-Continent Mapping Ctr. (NCIC-M), 1400 Independence Rd., Rolla, MO 65401.)

OF 84-0538. TEXAS. Land use and land cover and associated maps for Crystal City, Texas. Lat 28° to 29°, long 98° to 100°. This data set consists of four maps keyed to USGS topographic map Crystal City at 1:250,000 (1 inch = about 4 miles). These maps are coded for statistical development. The maps are (1) land use and land cover, (2) political unit, (3) hydrological units, and (4) census county subdivision. Also included is one positive of the cultural base for Crystal City at 1:250,000. (†USGS, Mid-Continent Mapping Ctr. (NCIC-M), 1400 Independence Rd., Rolla, MO 65401.)

OF 84-0539. TEXAS, NEW MEXICO. Land use and land cover and associated maps for El Paso, Texas; New Mexico. Lat 31° to 32°, long 106° to 108°. This data set consists of four maps keyed to USGS topographic map El Paso at 1:250,000 (1 inch = about 4 miles). These maps are coded for statistical development. The maps are (1) land use and land cover, (2) political unit, (3) hydrological units, and (4) census county subdivision. Also included is one positive of the cultural base for El Paso at 1:250,000. (†USGS, Mid-Continent Mapping Ctr. (NCIC-M), 1400 Independence Rd., Rolla, MO 65401.)

OF 84-0540. TEXAS. Land use and land cover and associated maps for Emory Peak, Texas. Lat 29° to 30°, long 102° to 104°. This data set consists of four maps keyed to USGS topographic map Emory Peak at 1:250,000 (1 inch = about 4 miles). These maps are coded for statistical development. The maps are (1) land use and land cover, (2) political unit, (3) hydrological units, and (4) census county subdivision. Also included is one positive of the cultural base for Emory Peak at 1:250,000. (†USGS, Mid-Continental Mapping Ctr. (NCIC-M), 1400 Independence Rd., Rolla, MO 65401.)

OF 84-0541. TEXAS. Land use and land cover and associated maps for Laredo, Texas. Lat 27° to 28°, long 98° to 100°. This data set consists of four maps keyed to USGS topographic map Laredo at 1:250,000 (1 inch = about 4 miles). These maps are coded for statistical development. The maps are (1) land use and land cover, (2) political unit, (3) hydrological units, and (4) census county subdivision. Also included is one positive of the cultural base for Laredo at 1:250,000. (†USGS, Mid-Continent Mapping Ctr. (NCIC-M), 1400 Independence Rd., Rolla, MO 65401.)

OF 84-0543. TEXAS, OKLAHOMA. Land use and land cover and associated maps for Wichita Falls, Texas; Oklahoma. Lat 33° to 34°, long 98° to 100°. This data set consists of four maps keyed to USGS topographic map Wichita Falls at 1:250,000 (1 inch = about 4 miles). These maps are coded for statistical development. The maps are (1) land use and land cover, (2) political unit, (3) hydrological units, and (4) census county subdivision. Also included is one positive of the cultural base for Wichita Falls at 1:250,000. (†USGS, Mid-Continent Mapping Ctr. (NCIC-M), 1400 Independence Rd., Rolla, MO 65401.)

OF 84-0547. WYOMING. Land use and land cover and associated maps for Lander, Wyoming. Lat 42° to 43°, long 108° to 110°. This data set consists of four maps keyed to USGS topographic map Lander at 1:250,000 (1 inch = about 4 miles). These maps are coded for statistical development. The maps are (1) land use and land cover, (2) political unit, (3) hydrological units, and (4) census county subdivision. Also included is one positive of the cultural base for Lander at 1:250,000. (†USGS, Mid-Continent Mapping Ctr. (NCIC-M), 1400 Independence Rd., Rolla, MO 65401.)

OF 84-0548. WYOMING. Land use and land cover and associated maps for Thermopolis, Wyoming. Lat 43° to 44°, long 108° to 110°. This data set consists of four maps keyed to USGS topographic map Thermopolis at 1:250,000 (1 inch = about 4 miles). These maps are coded for statistical development. The maps are (1) land use and land cover, (2) political unit, (3) hydrological units, and (4) census county subdivision. Also included is one positive of the cultural base for Thermopolis at 1:250,000. (†USGS, Mid-Continent Mapping Ctr. (NCIC-M), 1400 Independence Rd., Rolla, MO 65401.)

OF 85-0303. Using an acreage sampling template with U.S. Geological Survey 1:250,000-scale land use and land cover maps, by E. L. Schwertz, Jr., and G. L. Loelkes, Jr. 25 p. (NC, Da, M.) (†A limited number of copies of this report are available from USGS, Mid-Continent Mapping Ctr. (NCIC-M), 1400 Independence Rd., Rolla, MO 65401.)

Reports Available Only Through Certain Geological Survey Field Offices

For information on availability and price of these reports, write to the address indicated by a dagger (†) in the listing for the report.

OF 81-0413. Flood of September 16, 1975 at Utuado, Puerto Rico, by K. G. Johnson. 18 p. (NC; USGS, WRD, G.P.O. Box 4424, San Juan, PR 00936.) †A limited number of copies of this report are available from USGS, WRD, G.P.O. Box 4424, San Juan, PR 00936. (Water-Resources Investigations.)

OF 81-0500. NEW YORK. Hydrogeologic data from selected wells and test holes in Suffolk County, Long Island, New York, 1972-80, by R. K. Krulikas. †A limited number of copies of this report are available from USGS, WRD, P.O. Box 1350, Albany, NY 12201. (Water-Resources Investigations.)

OF 81-1108. OREGON. Ground-water resources in the Hood Basin, Oregon, by S. J. Grady. †A limited number of copies of this report are available from USGS, WRD, 847 NE 19th Ave., Suite 300, Portland, OR 97232. (Water-Resources Investigations.)

OF 81-1117. OKLAHOMA. Generalized altitude and configuration of the base of the High Plains regional aquifer, northwestern Oklahoma, by J. S. Havens. †A limited number of copies of this report are available from USGS, WRD, 215 Dean A. McGee Ave., Room 621, Oklahoma City, OK 73102. (Water-Resources Investigations.)

OF 82-0086. ALASKA. Hydrology for land-use planning; the Potter Creek area, Anchorage, Alaska, by R. P. Emanuel, and D. J. Cowing. (Da, A, NC, M, LA, SF, S; USGS, WRD, 4230 University Dr., Suite 201, Anchorage, AK 99508-4664; Room 168, Federal Bldg., 101 12th Ave., Fairbanks, AK 99701; and Room 441, Federal Bldg., 710 West 9th Ave., Juneau, AK 99801.) †A limited number of copies of this report are available from USGS, WRD, 4230 University Dr., Suite 201, Anchorage, AK 99508-4664. (Water-Resources Investigations.)

OF 82-0100. OKLAHOMA. Altitude and configuration of the 1980 water table in the High Plains regional aquifer, northwestern Oklahoma, by J. S. Havens. †A limited number of copies of this report are available from USGS, WRD, 215 Dean A. McGee Ave., Room 621, Oklahoma City, OK 73102. (Water-Resources Investigations.)

OF 82-0349. Hydrologic characteristics of lagoons at San Juan, Puerto Rico, during an October 1974 tidal cycle, by Fernando Gomez-Gomez, and S. R. Ellis. 56 p. (NC; USGS, WRD, G.P.O. Box 4424, San Juan, PR 00936.) †A limited number of copies of this report are available from USGS, WRD, G.P.O. Box 4424, San Juan, PR 00936. (Water-Resources Investigations.)

OF 82-0557. GEORGIA. Storage requirements for Georgia streams, by R. F. Carter. 69 p. (NC; USGS, WRD, Suite B, 6481 Peachtree Industrial Blvd., Doraville, GA 30360.) †A limited number of copies of this report are available from USGS, WRD, Suite B, 6481 Peachtree Industrial Blvd., Doraville, GA 30360.

OF 83-0032. CALIFORNIA. Physical and chemical properties of San Francisco Bay waters, 1978, by R. E. Smith, and R. E. Herndon. 24 p. (NC, M, LA, SF; USGS, WRD, 345 Middlefield Rd., Mail Stop 21, Menlo Park, CA 94025.) †A limited number of copies of this report are available from USGS, WRD, 345 Middlefield Rd., Mail Stop 496, Menlo Park, CA 94025.

OF 83-0765. COLORADO, WYOMING, UTAH. Hydrology of area 53, Northern Great Plains and Rocky Mountain coal provinces, Colorado, Wyoming, and Utah, by N. E. Driver, J. M. Norris, Gerhard Kuhn, and others. 230 p. (Da, Db, NC, Wb; USGS, WRD, Box 25046, Mail Stop 415, Denver Federal Ctr., Denver, CO 80225.) †A limited number of copies of this report are available from USGS, WRD, Box 25046, Mail Stop 415, Denver Federal Ctr., Denver, CO 80225. (Water-Resources Investigations.)

OF 83-0851. KANSAS, MISSOURI. Hydrology of area 39, Western Region, Interior Coal Province, Kansas and Missouri, by H. E. Bevans, John Skelton, J. F. Kenny, and J. V. Davis. 176 p. (NC, Da, M, Wb.) †A limited number of copies of this report are available from USGS, WRD, 1950 Constant Ave., Campus West, Univ. of Kansas, Lawrence, KS 66044-3897. (Water-Resources Investigations.)

OF 84-0228. GEORGIA. Evaluation of the ground-water resources of coastal Georgia; preliminary report on the data available as of July 1983, by R. E. Krause, S. E. Matthews, and H. E. Gill. 87 p. (NC, Da, M, Wb; USGS, WRD, Suite B, 6481 Peachtree Industrial Blvd., Doraville, GA 30360.) †USGS, WRD, Suite B, 6481 Peachtree Industrial Blvd., Doraville, GA 30360. (Superseded by Information Circular No. 62, Georgia Geol. Surv., Dep. Natural Resources, 19 Martin Luther King Dr., Atlanta, GA 30334.)

OF 84-0233. OHIO, KENTUCKY, WEST VIRGINIA. Hydrology of area 11, Eastern Coal Province, Ohio, Kentucky, and West Virginia, by D. K. Roth, and S. C. Cooper. †Available for inspection only at USGS, WRD, 975 West Third Ave., Columbus, OH 43212.

OF 84-0731. IOWA. Bedrock topography of west-central Iowa, by R. E. Hansen, and D. L. Runkle. 1 p. (NC, Da, M, Wb.) †A limited number of copies of this report are available from USGS, WRD, 400 South Clinton St., Room 269, Iowa City, IA 52244.

OF 84-0770. Proceedings of the symposium on the New Madrid seismic zone, edited by P. L. Gori and W. W. Hays. 471 p., 1 over-size sheet, scale 1:62,500 (1 inch = about 1 mile). (NC, Da, M.) †A limited number of copies are available from USGS, Office of Earthquakes, Volcanoes, and Engineering, 905 National Ctr., Reston, VA 22092.

Evaluation of the symposium on the New Madrid seismic zone, by P. L. Gori. p. 1-5

New Madrid seismic zone; Part I, Historical review of studies; Part II, Contemporary studies by the U.S. Geological Survey, by F. A. McKeown. p. 6-32

The central Mississippi Valley earthquakes of 1811-1812, by R. L. Street, and O. W. Nuttli. p. 33-63

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Use of Earth resistivity and gravity with drilling for shallow exploration in the Reelfoot Lake region, by R. G. Stearns. p. 97-137

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Rift structure of the northern Mississippi Embayment from the analysis of gravity and magnetic data, by T. G. Hildenbrand. p. 168-203

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Anomalous crust and upper mantle properties in the New Madrid area, by B. J. Mitchell, James Kohsmann, and Haydar Al-Shukri. p. 234-266

The seismicity of the New Madrid seismic zone, by R. B. Herrmann. p. 267-278

Recurrence rates and probability estimates for the New Madrid seismic zone, by Arch Johnston, and S. J. Nava. p. 279-329

Source characteristics and strong ground motion of New Madrid earthquakes, by O. W. Nuttli, and R. B. Herrmann. p. 330-352

Earthquake-induced landslides in the central Mississippi Valley, Tennessee and Kentucky, by R. W. Jibson, and D. K. Keefer. p. 353-390

Liquefaction potential in the central Mississippi Valley, by S. F. Obermeier. p. 391-446

A look at the present state-of-knowledge on earthquake hazards in the New Madrid seismic zone and suggestions for future research, by W. W. Hays. p. 447-461

OF 84-0864. TEXAS. Geohydrology of the Edwards Aquifer in the Austin area, Texas, by E. T. Baker, Jr., R. M. Slade, Jr., M. E. Dorsey, L. M. Ruiz, and G. L. Duffin. 237 p. (NC, Da, M, Wb.) †A limited number of copies of this report are available from Texas Water Commission, P.O. Box 13087, Austin, TX 78711.

OF 85-0062. UTAH. Great Salt Lake and vicinity, Utah, satellite image map, by A. P. Colvocoresses. 6 p. †Copies available from EROS Cartography, USGS, National Ctr., Mail Stop 520, Reston, VA 22092.

OF 85-0097. IOWA. Bedrock topography of Northwest Iowa, by R. E. Hansen. 9 p. (NC, Da, M, Wb.) †A limited number of copies of this report are available from USGS, WRD, PO Box 1230, Iowa City, IA 52224.

MAPS

ANTARCTIC GEOLOGIC MAPS

A-0012. Reconnaissance geologic map of the Mt. Blackburn Quadrangle, Transantarctic Mountains, Antarctica, by Edmund Stump, J. H. Smit, and Stephen Self. 1985. Lat 87° to 86°, long 135° to 150°. Scale 1:250,000 (1 inch = about 4 miles). Sheet 25 by 28 inches.

GEOLOGIC QUADRANGLE MAPS

Multicolor geologic maps on topographic bases in 7 1/2- or 15-minute quadrangle units; scales mainly 1:24,000 or 1:62,500; show bedrock, surficial, or engineering geology. Maps are accompanied by brief texts and some maps by structure and columnar sections also.

GQ-0098. NEW MEXICO. Geologic map of the Carlsbad Caverns East Quadrangle, New Mexico, by P. T. Hayes. 1974. Lat 32° to 32°15′, long 104°15′ to 104°30′. Scale 1:62,500 (1 inch = about 1 mile). Sheet 31 by 48 inches. (Reprint.)

GQ-0897. HAWAII. Geologic map of the Mauna Loa Quadrangle, Hawaii, by G. A. Macdonald. 1971. Lat 19°22′30″ to 19°30′, long 155°30′ to 155°37′30″. Scale 1:24,000 (1 inch = 2,000 feet). Sheet 34 by 37 inches. (Reprint.)

GQ-1573. MASSACHUSETTS. Bedrock geologic map of the East Lee Quadrangle, Berkshire County, Massachusetts, by N. M. Ratcliffe. 1985. Lat 42°15′ to 42°22′30″, long 73°07′30″ to 73°15′. Scale 1:24,000 (1 inch = 2,000 feet). Sheet 41 by 46 inches.

GQ-1574. MASSACHUSETTS. Bedrock geologic map of the Pittsfield East Quadrangle, Berkshire County, Massachusetts, by N. M. Ratcliffe. 1984 (1985). Lat 42°22′30″ to 42°30′, long 73°07′30″ to 73°15′. Scale 1:24,000 (1 inch = 2,000 feet). Sheet 34 by 44 inches. (Supersedes Open-file report 78-952.)

GQ-1577. PENNSYLVANIA. Geologic map of the Kutztown Quadrangle, Berks and Lehigh counties, Pennsylvania, by G. G. Lash. 1985. Lat 40°30′ to 40°37′30″, long 75°45′ to 75°52′30″. Scale 1:24,000 (1 inch = 2,000 feet). Sheet 34 by 44 inches.

GQ-1582. WISCONSIN. Geologic map of the Hurricane Quadrangle, Grant County, Wisconsin, by W. S. West, and A. V. Heyl. 1985. Lat 42°45′ to 42°52′30″, long 90°45′ to 90°52′30″. Scale 1:24,000 (1 inch = 2,000 feet). Sheet 28 by 41 inches.

GQ-1583. NEW MEXICO. Geologic map of the Oak Spring Quadrangle, McKinley County, New Mexico, by A. R. Kirk, and R. S. Zech. 1984 (1985). Lat 35°37′30″ to 35°45′, long 108°22′30″ to 108°30′. Scale 1:24,000 (1 inch = 2,000 feet). Sheet 33 by 39 inches.

GQ-1584. CALIFORNIA. Geologic map of the Kern Peak Quadrangle, Tulare County, California, by J. G. Moore, and T. W. Sisson. 1985. Lat 36°15′ to 36°30′, long 118°15′ to 118°30′. Scale 1:62,500 (1 inch = about 1 mile). Sheet 25 by 39 inches.

GEOPHYSICAL INVESTIGATIONS MAPS

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-0960-A. Black and white composite magnetic anomaly map of the United States; Part A, Conterminous United States, compiled under the direction of Isidore Zietz. 1983. Two sheets. West half; sheet 1, lat about 23° to about 48°, long about 97° to about 128°. East half; sheet 2, lat about 23° to about 48°, long about 64° to about 96°. Scale 1:2,500,000 (1 inch = about 40 miles). Sheet 1, 41 by 51 inches; sheet 2, 41 by 51 inches.

GP-0968. OHIO. Aerial radiometric contour maps of surface concentrations of uranium, potassium, and thorium in Ohio, by J. S. Duval. 1985. Three sheets. Sheet 1, lat about 39° to about 42°, long about 81° to about 84°. Scale 1:500,000 (1 inch = about 8 miles). Sheet 1, 32 by 43 inches.

MISCELLANEOUS INVESTIGATIONS SERIES MAPS

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

I-0790-E. COLORADO. Map showing some points of geologic interest in the Morrison Quadrangle, Jefferson County, Colorado, by G. R. Scott. 1972. Lat 39°37′30″ to 39°45′, long 105°07′30″ to 105°15′. Sheet 29 by 40 inches. (Reprint.)

I-0828. COLORADO. Geologic map of the Platoro Caldera area, southeastern San Juan Mountains, southwestern Colorado, by P. W. Lipman. 1974. Lat 37°15′ to 37°30′, long 106°15′ to 106°45′. Scale 1:48,000 (1 inch = 4,000 feet). Sheet 34 by 50 inches. (Reprint.)

I-0830. COLORADO. Geological map and sections of the Holy Cross Quadrangle, Eagle, Lake, Pitkin, and Summit counties, Colorado, by Ogden Tweto. 1974. Two sheets. Sheet 1, Lat 39°15′ to 39°30′, long 10°15′ to 106°30′. Scale 1:24,000 (1 inch = 2,000 feet). Sheet 1, 38 by 51 inches; sheet 2, 38 by 47 inches. (Reprint.)

I-1022. COLORADO. Geologic map of the Pueblo 1° by 2° Quadrangle, south-central Colorado, by G. R. Scott, R. B. Taylor, R. C. Epis, and R. A. Wobus. 1978. Two sheets. Lat 38° to 39°, long 104° to 106°. Scale 1:250,000 (1 inch = about 4 miles). Sheet 1, 29 by 56 inches; sheet 2, 24 by 35 inches. (Reprint.)

I-1091-C. CALIFORNIA. Map showing distribution, composition, and age of late Cenozoic volcanic centers in California, by R. G. Luedke, and R. L. Smith. 1981. Two sheets. Sheet 1, lat about 33° to 42°, long 114° to about 124°; sheet 2, lat about 36°45′ to about 41°45′, long about 115°45′ to about 123°. Scale 1:1,000,000 (1 inch = about 16 miles). Sheet 1, 38 by 47 inches; sheet 2, 38 by 54 inches. (Reprint.)

I-1182-D. Bathymetric map of the Chukchi Sea, by E. R. Hill, Arthur Grantz, S. D. May, and Marilyn Smith. 1984 (1985). Lat about 65° to about 74°30′, long about 153° to about 176°. Scale 1:1,000,000 (1 inch = about 16 miles). Sheet 44 by 48 inches.

I-1182-E. ALASKA. Free-air gravity anomaly map of the Chukchi and Alaskan Beaufort seas, Arctic Ocean, by S. D. May. 1985. Lat about 65° to about 74°30′, long about 137° to 176°. Scale 1:1,000,000 (1 inch = about 16 miles). Sheet 43 by 56 inches.

I-1257-D. CALIFORNIA. Map of hillside materials and description of their engineering character, San Mateo County, California, by C. M. Wentworth, Stephen Ellen, V. A. Frizzell, Jr., and Juluis Schlocker. 1985. Two sheets. Lat 37°06′ to 37°43′, long 122°04′30″ to 122°33′15″. Scale 1:62,500 (1 inch = about 1 mile). Sheet 1, 34 by 50 inches; sheet 2, 40 by 48 inches.

I-1257-E. CALIFORNIA. Map showing slope stability during earthquakes in San Mateo County, California, by G. F. Wieczorek, R. C. Wilson, and E. L. Harp. 1985. Lat 37°06′ to 37°43′, long 122°04′30″ to 122°33′15″. Scale 1:62,500 (1 inch = about 1 mile). Sheet 41 by 54 inches.

I-1302. ARIZONA. Geologic map of the Whitelock Mountains and vicinity, Graham County, Arizona, by D. H. Richter, M. Shafiqullah, and V. A. Lawrence. 1981. Lat 32°30′ to 32°45′, long 109°15′ to 109°30′. Scale 1:48,000 (1 inch = 4,000 feet). Sheet 35 by 36 inches. (Reprint.)

I-1310-C. NEW MEXICO, ARIZONA. Geologic map of the Silver City 1° by 2° Quadrangle, New Mexico and Arizona, by Harald Drewes, B. B. Houser, D. C. Hedlund, D. H. Richter, C. H. Thorman, and T. L. Finnell. 1985. Lat 32° to 33°, long 108° to 110°. Scale 1:250,000 (1 inch = about 4 miles). Sheet 32 by 51 inches.

I-1313-E. VIRGINIA, MARYLAND. Map and geotechnical properties of surface materials of the Culpeper Basin and vicinity, Virginia and Maryland, by A. J. Froelich. 1985. Lat about 38°15′ to about 39°15′, long about 77°15′ to about 78°15′. Scale 1:125,000 (1 inch = about 2 miles). Sheet 41 by 58 inches.

I-1364. ALASKA. Bathymetric map of the Alsek sediment instability area, northeastern Gulf of Alaska, by B. F. Molnia, M. P. Bingham, and M. L. Rappeport. 1985. Lat about 59°05′ to about 59°08′, long about 138°36′ to about 138°44′. Scale 1:10,000 (1 inch = about 833 feet). Sheet 29 by 39 inches.

I-1400. NORTH CAROLINA. Geologic and geophysical maps of south-central North Carolina, by A. A. Stromquist, and J. R. Henderson. 1985. Three sheets. Lat 35°15′ to 35°45′, long 80° to 80°30′. Scale 1:62,500 (1 inch = about 1 mile). Sheet 1, 41 by 48 inches; sheet 2, 37 by 41 inches; sheet 3, 37 by 41 inches.

I-1430-C. UTAH. Complete Bouguer gravity anomaly map on a geologic base map of the Tushar Mountains and adjoining areas, Marysvale volcanic field, Utah, by K. L. Cook, M. E. Halliday, C. G. Cunningham, T. A. Steven, P. D. Rowley, L. B. Glassgold, J. J. Anderson, and L. L. Coles. 1984 (1985). Lat 38°15′ to 38°42′30″, long 112° to 112°37′30″. Scale 1:50,000 (1 inch = about 4,200 feet). Sheet 43 by 57 inches.

I-1430-D. UTAH. Aeromagnetic map on a geologic base map of the Tushar Mountains and adjoining areas, Marysvale volcanic field, Utah, by D. L. Campbell, C. G. Cunningham, T. A. Steven, P. D. Rowley, L. B. Glassgold, and J. J. Anderson. 1984 (1985). Lat 38°15′ to 38°42′30″, long 112° to 112°37′30″. Scale 1:50,000 (1 inch = about 4,200 feet). Sheet 43 by 57 inches.

I-1430-E. UTAH. Distribution of anomalous trace elements in the nonmagnetic fraction of heavy-mineral concentrates of stream sediments, shown on a geologic base map of the Tushar Mountains and adjoining areas, Marysvale volcanic field, Utah, by W. R. Miller, J. M. Motooka, C. G. Cunningham, T. A. Steven, P. D. Rowley, and J. J. Anderson. 1984 (1985). Lat 38°15′ to 38°42′30″, long 112° to 112°37′30″. Scale 1:50,000 (1 inch = about 4,200 feet). Sheet 43 by 57 inches.

I-1430-F. UTAH. Distribution of anomalous trace elements in the magnetic fraction of heavy-mineral concentrates of stream sediments, shown on a geologic base map of the Tushar Mountains and adjoining areas, Marysvale volcanic field, Utah, by W. R. Miller, J. M. Motooka, C. G. Cunningham, T. A. Steven, P. D. Rowley, and J. J. Anderson. 1984 (1985). Lat 38°15′ to 38°42′30″, long 112° to 112°37′30″. Scale 1:50,000 (1 inch = about 4,200 feet). Sheet 43 by 57 inches.

I-1430-G. UTAH. Distribution of anomalous trace elements in the less-than-180 micrometer fraction of stream sediments, shown on a geologic base map of the Tushar Mountains and adjoining areas, Marysvale volcanic field, Utah, by W. R. Miller, J. M. Motooka, C. G. Cunningham, T. A. Steven, P. D. Rowley, and J. J. Anderson. 1984 (1985). Lat 38°15′ to 38°42′30″, long 112° to 112°37′30″. Scale 1:50,000 (1 inch = about 4,200 feet). Sheet 43 by 57 inches.

I-1463. OREGON. Land-sea geologic cross section of the southern Oregon continental margin, by P. D. Snavely, Jr., H. C. Wagner, and D. L. Lander. 1985. Scale 1:125,000 (1 inch = about 2 miles). Sheet 35 by 51 inches.

I-1491. Shaded relief and surface markings of the Ruwa Patera region of Io. 1984 (1985). Two sheets. Scale 1:5,000,000 (1 inch = about 80 miles). Sheet 1, 35 by 40 inches; sheet 2, 31 by 40 inches.

I-1502. ALASKA. Reconnaissance geologic map of the southwestern Misheguk Mountain Quadrangle, Alaska, by S. M. Curtis, Inyo Ellersieck, C. F. Mayfield, and I. L. Tailleur. 1984 (1985). Two sheets. Sheet 1, lat 68° to 68°35′, long 161° to 162°. Scale 1:63,360 (1 inch = 1 mile). Sheet 1, 42 by 57 inches; sheet 2, 32 by 44 inches.

I-1503. ALASKA. Reconnaissance geologic map of southeastern Misheguk Mountain Quadrangle, Alaska, by C. F. Mayfield, S. M. Curtis, Inyo Ellersieck, and I. L. Tailleur. 1984 (1985). Two sheets. Sheet 1, lat 68° to 68°40′, long 159° to 160°. Scale 1:63,360 (1 inch = 1 mile). Sheet 1, 42 by 57 inches; sheet 2, 30 by 41 inches.

I-1504. ALASKA. Reconnaissance geologic map of south-central Misheguk Mountain Quadrangle, Alaska, by Inyo Ellersieck, S. M. Curtis, C. F. Mayfield, and I. L. Tailleur. 1984 (1985). Two sheets. Sheet 1, lat 68° to 68°36′, long 160° to 161°. Scale 1:63,360 (1 inch = 1 mile). Sheet 1, 42 by 57 inches; sheet 2, 32 by 44 inches.

I-1506. ALASKA. Geologic map of western Chichagof and Yakobi islands, southeastern Alaska, by B. R. Johnson, and S. M. Karl. 1985. Lat about 57°30′ to about 58°, long 135°20′ to 136°40′. Scale 1:125,000 (1 inch = about 2 miles). (Accompanied by 15-page text.)

I-1522-D. Selected geologic and hydrologic characteristics of the Basin and Range Province, Western United States; Pleistocene lakes and marshes, by T. R. Williams, and M. S. Bedinger. 1984 (1985). Lat about 29° to about 44 °, long about 102° to about 123°. Scale 1:2,500,000 (1 inch = about 40 miles). Sheet 33 by 42 inches. (Supersedes Open-file report 83-751.)

I-1523. Map showing distribution, composition, and age of late Cenozoic volcanic centers in the western conterminous United States, by R. G. Luedke, and R. L. Smith. 1984 (1985). Lat about 30° to about 49°, long about 102° to about 128°. Scale 1:2,500,000 (1 inch = about 40 miles). Sheet 32 by 44 inches.

I-1524. CONNECTICUT, NEW YORK, RHODE ISLAND. Bedrock geologic map of the Old Mystic and part of the Mystic quadrangles, Connecticut, New York, and Rhode Island, by Richard Goldsmith. 1985. Lat 41°15′ to 41°30′, long 71°52′ 30″ to 72°. Scale 1:24,000 (1 inch = 2,000 feet). Sheet 42 by 58 inches. (Accompanied by 8-page text.)

I-1526. COLORADO, UTAH, WYOMING. Geologic map of the Vernal 1° by 2° Quadrangle, Colorado, Utah, and Wyoming, by P. D. Rowley, W. R. Hansen, Ogden Tweto, and P. E. Carrara. 1985. Lat 40° to 41°, long 108° to 110°. Scale 1:250,000 (1 inch = about 4 miles). Sheet 34 by 51 inches.

I-1527. MINNESOTA. Geologic map of Archean rocks, western Vermilion District, northern Minnesota, compiled by P. K. Sims, and D. L. Southwick. 1985. Lat 47°37′30″ to 48°, long 91°52′30″ to 92°37′30″. Scale 1:48,000 (1 inch = 4,000 feet). Sheet 40 by 58 inches.

I-1529. MINNESOTA. Generalized bedrock geologic map of west-central Vermilion District, northern Minnesota, compiled by P. K. Sims. 1985. Lat 47°45′ to 48°, long 91°30′ to 92°22′30″. Scale 1:48,000 (1 inch = 4,000 feet). Sheet 28 by 56 inches.

I-1530. NEW JERSEY. Geologic map of the eastern parts of the Belvidere and Portland quadrangles, Warren County, New Jersey, by A. A. Drake, Jr., R. L. Kastelic, Jr., and P. T. Lyttle. 1985. Lat 40°45′ to 41°, long 75° to 75°07′30″. Scale 1:24,000 (1 inch = 2,000 feet). Sheet 34 by 52 inches.

I-1532. COLORADO. Geologic map of the Citadel Plateau Quadrangle, Moffat County, Colorado, by G. A. Izett, J. G. Honey, and M. E. Brownfield. 1985. Lat 40°15′ to 40°30′, long 108° to 108°15′. Scale 1:48,000 (1 inch = 4,000 feet). Sheet 37 by 52 inches.

I-1533. NEVADA. Bedrock geologic map of the Lone Mountain Pluton area, Esmeralda County, Nevada, by Florian Maldonado. 1984 (1985). Lat about 38° to about 38°02′30″, long about 117°27′30″ to about 117°35′. Scale 1:24,000 (1 inch = 2,000 feet). Sheet 29 by 41 inches.

I-1534. VIRGINIA. Maps showing geologic terrane, drainage basins, overburden, and low flow of streams in Fairfax County and vicinity, Virginia, by A. J. Froelich, and Chester Zenone. 1985. Lat about 38°45′ to about 39°, long about 77°15′ to about 77°30′. Scale 1:48,000 (1 inch = 4,000 feet). Sheet 42 by 49 inches.

I-1549. Shaded relief and surface markings of the Lerna region of Io. 1984 (1985). Two sheets. Scale 1:5,000,000 (1 inch = about 80 miles). Sheet 1, 26 by 36 inches; sheet 2, 26 by 31 inches.

I-1550. Shaded relief and surface markings of the Colchis region of Io. 1984 (1985). Two sheets. Scale 1:5,000,000 (1 inch = about 80 miles). Sheet 1, 36 by 40 inches; sheet 2, 31 by 40 inches.

I-1556. Geologic map of the Monte Guilarte Quadrangle, Puerto Rico, by R. D. Krushensky, and A. F. Curet. 1984 (1985). Lat 18°07′30″ to 18°15′, long 66°45′ to 66°52′30″. Scale 1:20,000 (1 inch = 1,667 feet). Sheet 37 by 51 inches.

I-1561. VIRGINIA. The relation of water quality to geology and land use changes in Fairfax County and vicinity, Virginia, by A. J. Froelich, and Chester Zenone. 1985. Lat about 38°45′ to about 39°, long about 77°15′ to about 77°30′. Scale 1:48,000 (1 inch = 4,000 feet). Sheet 42 by 58 inches.

I-1566. COLORADO. Map showing tectonic features of late Cenozoic origin in Colorado, by S. M. Colman. 1985. Lat about 37° to about 41°, long about 102° to about 109°. Scale 1:1,000,000 (1 inch = about 16 miles). Sheet 24 by 41 inches.

I-1568. VIRGINIA. Piedmont geology of the Spotsylvania Quadrangle, Spotsylvania County, Virginia, by Karen Wier, and Louis Pavlides. 1985. Lat 38°07′30″ to 38°15′, long 77°30′ to 77°37′30″. Scale 1:24,000 (1 inch = 2,000 feet). Sheet 34 by 37 inches.

I-1570. ARIZONA. Geologic map and structure sections of the Dos Cabezas Quadrangle, Cochise County, Arizona, by Harald Drewes. 1985. Lat 32°07′30″ to 32°15′, long 109°30′ to 109°37′30″. Scale 1:24,000 (1 inch = 2,000 feet). Sheet 39 by 44 inches.

I-1571. NEW MEXICO. Geologic map of the Chaco Culture National Historical Park, northwestern New Mexico, by G. R. Scott, R. B. O'Sullivan, and D. L. Weide. 1984 (1985). Lat 36° to 36°07′30″, long 107°45′ to 108°07′30″. Scale 1:50,000 (1 inch = about 4,200 feet). Sheet 32 by 40 inches.

I-1574. UTAH. Landsat image map showing the distribution of limonitic rocks, Richfield 1° by 2° Quadrangle, Utah, by M. H. Podwysocki, and D. B. Segal. 1985. Lat 38° to 39°, long 112° to 114°. Scale 1:250,000 (1 inch = about 4 miles). Sheet 24 by 43 inches.

I-1577. NEVADA. Geologic map of the Gabbs Mountain, Mount Ferguson, Luning, and Sunrise Flat quadrangles, Mineral and Nye counties, Nevada, by E. B. Ekren, and F. M. Byers, Jr. 1985. Lat 38°30′ to 38°45′, long 118° to 118°15′. Scale 1:48,000 (1 inch = 4,000 feet). Sheet 29 by 37 inches. (Supersedes Open-file report 78-918.)

I-1578. NEVADA. Geologic map of the Win Wan Flat, Kinkaid NW, Kinkaid, and Indian Head Peak quadrangles, Mineral County, Nevada, by E. B. Ekren, and F. M. Byers, Jr. 1985. Lat 38°30′ to 38°45′, long 118°15′ to 118°30′. Scale 1:48,000 (1 inch = 4,000 feet). Sheet 30 by 37 inches.

I-1582. Controlled photomosaic of the Elysium Southeast Quadrangle of Mars. 1984. Scale 1:2,000,000 (1 inch = about 32 miles). Sheet 26 by 34 inches.

I-1594. COLORADO. Map showing upper Cenozoic rocks and deposits and Quaternary faults, Rio Grande Rift, south-central Colorado, by S. M. Colman, J. P. McCalpin, Utah State University, D. A. Ostenaa, U.S. Bureau of Reclamation and R. M. Kirkham, Colorado Geological Survey. 1985. Two sheets. Sheet 1, lat 38° to 39°, long about 105°45′ to about 106°15′. Sheet 2, lat 37° to 38°, long about 105°15′ to 106°. Scale 1:125,000 (1 inch = about 2 miles). Sheet 1, 32 by 43 inches; sheet 2, 31 by 43 inches.

I-1596. UTAH. Surficial geologic map of the Fisher Valley-Professor Valley area, southeastern Utah, by S. M. Colman, and F. F. Hawkins. 1985. Lat 38°37′30″ to about 38°42′30″, long about 109°12′30″ to about 109°25′. Scale 1:24,000 (1 inch = 2,000 feet). Sheet 26 by 43 inches.

I-1605. UTAH. Geologic map of the Mantua Quadrangle and part of the Willard Quadrangle, Box Elder, Weber, and Cache counties, Utah, by M. D. Crittenden, Jr., and M. L. Sorensen. 1985. Lat 41°22′30″ to 41°30′, long 111°52′30″ to 112°02′40″. Scale 1:24,000 (1 inch = 2,000 feet). Sheet 40 by 50 inches.

I-1606. UTAH. Geologic map of the North Ogden Quadrangle and part of the Ogden and Plain City quadrangles, Box Elder and Weber counties, Utah, by M. D. Crittenden, Jr., and M. L. Sorensen. 1985. Lat 41°11′30″ to 41°22′30″, long 111°52′30° to 112°02′30″. Scale 1:24,000 (1 inch = 2,000 feet). Sheet 40 by 55 inches.

I-1608. NEW JERSEY. A geologic map of the continental slope off New Jersey; Lindenkohl Canyon to Toms Canyon, by J. C. Hampson, Jr., and J. M. Robb. 1984 (1985). Lat about 38°40′ to about 39°05′, long about 72°25′ to about 73°. Scale 1:50,000 (1 inch = about 4,200 feet).

I-1609. IOWA. Bedrock topography of central Iowa, by R. E. Hansen. 1985. Two sheets. East half; sheet 1, lat about 41°30′ to about 42°30′, long about 92°45′ to about 93°15′. West half; sheet 2, lat about 41°45′ to about 42°30′, long about 93°30′ to about 94°15′. Scale 1:125,000 (1 inch = about 2 miles). Sheet 1, 26 by 43 inches; sheet 2, 27 by 44 inches. (Supersedes Open-file report 83-946.)

I-1611. HAWAII. Earthquake map of South Hawaii, 1968-1981, by F. W. Klein, and R. Y. Koyanagi. 1985. Lat 18°50′ to 19°35′, long 154°48′ to 155°43′. Scale 1:100,000 (1 inch = about 1.6 miles). Sheet 38 by 45 inches.

I-1614. Geologic map of the Mare Acidalium Quadrangle, Mars, by N. E. Witbeck, and J. R. Underwood, Jr. 1984. Scale 1:5,000,000 (1 inch = about 80 miles). Sheet 34 by 52 inches. (Revised.)

I-1615. WYOMING, COLORADO. Geologic map of the Kinney Rim 30 by 60 minute Quadrangle, Wyoming and Colorado, by H. W. Roehler. 1985. Lat 41° to 41°30′, long 108° to 109°. Scale 1:100,000 (1 inch = about 1.6 miles). Sheet 28 by 41 inches.

I-1619. Controlled photomosaic of the Casius Northwest Quadrangle of Mars. 1985. Scale 1:2,000,000 (1 inch = about 32 miles). Sheet 26 by 34 inches.

I-1620. Controlled photomosaic of the Ismenius Lacus Southcentral Quadrangle of Mars. 1985. Scale 1:2,000,000 (1 inch = about 32 miles). Sheet 26 by 34 inches.

I-1621. Controlled photomosaic of the Tharsis Northwest Quadrangle of Mars. 1985. Scale 1:2,000,000 (1 inch = about 32 miles). Sheet 26 by 34 inches.

I-1622. Controlled photomosaic of the Tharsis Southwest Quadrangle of Mars. 1985. Scale 1:2,000,000 (1 inch = about 32 miles). Sheet 27 by 34 inches.

I-1623. Controlled photomosaic of the Iapygia Northwest Quadrangle of Mars; revised. 1985. Scale 1:2,000,000 (1 inch = about 32 miles). Sheet 26 by 34 inches.

I-1624. Controlled photomosaic of the Arabia Northeast Quadrangle of Mars. 1985. Scale 1:2,000,000 (1 inch = about 32 miles). Sheet 26 by 34 inches.

I-1625. Controlled photomosaic of the Mare Australe H Quadrangle of Mars. 1985. Scale 1:2,000,000 (1 inch = about 32 miles). Sheet 34 by 35 inches.

I-1628. Controlled photomosaic of the Mare Australe G Quadrangle of Mars. 1985. Scale 1:2,000,000 (1 inch = about 32 miles). Sheet 25 by 34 inches.

I-1629. Controlled photomosaic of the Ismenius Lacus Southeast Quadrangle of Mars; revised. 1985. Scale 1:2,000,000 (1 inch = about 32 miles). Sheet 26 by 34 inches.

I-1630. Controlled photomosaic of the Sinus Sabaeus Southwest Quadrangle of Mars; revised. 1985. Scale 1:2,000,000 (1 inch = about 32 miles). Sheet 26 by 34 inches.

I-1633. Controlled photomosaic of the Mare Australe C Quadrangle of Mars. 1985. Scale 1:2,000,000 (1 inch = about 32 miles). Sheet 34 by 35 inches.

I-1634. Controlled photomosaic of the Mare Australe D Quadrangle of Mars. 1985. Scale 1:2,000,000 (1 inch = about 32 miles). Sheet 25 by 34 inches.

I-1636. Controlled photomosaic of the Mare Australe F Quadrangle of Mars. 1985. Scale 1:2,000,000 (1 inch = about 32 miles). Sheet 25 by 34 inches.

I-1637. Controlled photomosaic of the Mare Australe I Quadrangle of Mars. 1985. Scale 1:2,000,000 (1 inch = about 32 miles). Sheet 25 by 34 inches.

I-1638. Controlled photomosaic of the Mare Australe J Quadrangle of Mars. 1985. Scale 1:2,000,000 (1 inch = about 32 miles). Sheet 25 by 34 inches.

I-1639. CALIFORNIA. Bedrock geologic map of Yosemite Valley, Yosemite National Park, California, by F. C. Calkins. 1985. Lat 37°42′ to 37°47′05″, long 119°29′10″ to 119°43′40″. Scale 1:24,000 (1 inch = 2,000 feet). Sheet 21 by 46 inches. (Accompanied by 7-page text.)

I-1643. NEVADA, CALIFORNIA. Map showing distribution of altered rocks, faults, and linear features in the Walker Lake 1° by 2° Quadrangle, Nevada and California, by T. L. Purdy, and L. C. Rowan. 1985. Lat 38° to 39°, long 118° to 120°. Scale 1:250,000 (1 inch = about 4 miles). Sheet 23 by 43 inches.

I-1646. Shaded relief map of the Casius Quadrangle of Mars. 1984 (1985). Scale 1:5,000,000 (1 inch = about 80 miles). Sheet 31 by 34 inches.

I-1647. Controlled photomosaic of the Mare Australe A and B regions of Mars. 1985. Scale 1:2,000,000 (1 inch = about 32 miles). Sheet 31 by 42 inches.

I-1648. Controlled photomosaic of part of the Maja Valles region of Mars. 1985. Scale 1:500,000 (1 inch = about 8 miles). Sheet 27 by 39 inches.

I-1649. Shaded relief and surface markings of the Galileo Regio Quadrangle of Ganymede. 1984 (1985). Two sheets. Scale 1:5,000,000 (1 inch = about 80 miles). Sheet 1, 29 by 33 inches; sheet 2, 25 by 32 inches.

I-1650. Shaded relief and surface markings of the Misharu Quadrangle of Ganymede. 1984. Two sheets. Scale 1:5,000,000 (1 inch = about 80 miles). Sheet 1, 28 by 28 inches; sheet 2, 23 by 28 inches.

I-1651. Shaded relief map of the Arabia Quadrangle of Mars. 1984 (1985). Scale 1:5,000,000 (1 inch = about 80 miles). Sheet 26 by 34 inches.

I-1652. Controlled photomosaic of part of the Mangala Valles region of Mars. 1985. Scale 1:500,000 (1 inch = about 8 miles). Sheet 27 by 38 inches.

I-1653. Controlled photomosaic of part of the Mangala Valles region of Mars. 1985. Scale 1:500,000 (1 inch = about 8 miles). Sheet 27 by 38 inches.

I-1667. Controlled photomosaic of the Mare Boreum C Quadrangle of Mars. 1985. Scale 1:2,000,000 (1 inch = about 32 miles). Sheet 25 by 36 inches.

I-1668. Controlled photomosaic of the Mare Boreum D Quadrangle of Mars. 1985. Scale 1:2,000,000 (1 inch = about 32 miles). Sheet 25 by 36 inches.

I-1669. Controlled photomosaic of the Mare Boreum E Quadrangle of Mars. 1985. Scale 1:2,000,000 (1 inch = about 32 miles). Sheet 25 by 36 inches.

I-1670. Controlled photomosaic of the Mare Boreum F Quadrangle of Mars. 1985. Scale 1:2,000,000 (1 inch = about 32 miles). Sheet 25 by 36 inches.

I-1671. Controlled photomosaic of the Mare Boreum G Quadrangle of Mars. 1985. Scale 1:2,000,000 (1 inch = about 32 miles). Sheet 25 by 36 inches.

I-1672. Controlled photomosaic of the Mare Boreum H Quadrangle of Mars. 1985. Scale 1:2,000,000 (1 inch = about 32 miles). Sheet 25 by 36 inches.

I-1673. Controlled photomosaic of the Mare Boreum I Quadrangle of Mars. 1985. Scale 1:2,000,000 (1 inch = about 32 miles). Sheet 25 by 36 inches.

I-1674. Controlled photomosaic of the Mare Boreum J Quadrangle of Mars. 1985. Scale 1:2,000,000 (1 inch = about 32 miles). Sheet 25 by 36 inches.

I-1675. Controlled photomosaic of part of the Maja Valles region of Mars. 1985. Scale 1:500,000 (1 inch = about 8 miles). Sheet 27 by 38 inches.

I-1676. Controlled photomosaic of part of the Maja Valles region of Mars. 1985. Scale 1:500,000 (1 inch = about 8 miles). Sheet 27 by 38 inches.

I-1677. Controlled photomosaic of part of the Maja Valles region of Mars. 1985. Scale 1:500,000 (1 inch = about 8 miles). Sheet 27 by 38 inches.

I-1678. Controlled photomosaic of part of the Maja Valles region of Mars. 1985. Scale 1:500,000 (1 inch = about 8 miles). Sheet 27 by 38 inches.

I-1679. Controlled photomosaic of the Casius Northeast Quadrangle of Mars. 1985. Scale 1:2,000,000 (1 inch = about 32 miles). Sheet 26 by 34 inches. (Supersedes I-1563.)

I-1680. Controlled photomosaic of the Casius Southeast Quadrangle of Mars. 1985. Scale 1:2,000,000 (1 inch = about 32 miles). Sheet 26 by 34 inches. (Supersedes I-1432.)

I-1681. Controlled photomosaic of the Phaethontis Southwest Quadrangle of Mars. 1985. Scale 1:2,000,000 (1 inch = about 32 miles). Sheet 26 by 34 inches.

I-1682. Controlled photomosaic of the Argyre Southeast Quadrangle of Mars. 1985. Scale 1:2,000,000 (1 inch = about 32 miles). Sheet 26 by 34 inches.

I-1683. Controlled photomosaic of the Argyre Southwest Quadrangle of Mars. 1985. Scale 1:2,000,000 (1 inch = about 32 miles). Sheet 26 by 34 inches.

I-1693. Controlled photomosaic of part of the Maja Valles region of Mars. 1985. Scale 1:500,000 (1 inch = about 8 miles). Sheet 27 by 38 inches.

I-1694. Controlled photomosaic of part of the Maja Valles region of Mars. 1985. Scale 1:500,000 (1 inch = about 8 miles). Sheet 27 by 38 inches.

I-1695. Controlled photomosaic of part of the Maja Valles region of Mars. 1985. Scale 1:500,000 (1 inch = about 8 miles). Sheet 27 by 38 inches.

I-1696. Controlled photomosaic of part of the Mangala Valles region of Mars. 1985. Scale 1:500,000 (1 inch = about 8 miles). Sheet 27 by 38 inches.

I-1697. Controlled photomosaic of part of the Mangala Valles region of Mars. 1985. Scale 1:500,000 (1 inch = about 8 miles). Sheet 27 by 38 inches.

I-1698. Controlled photomosaic of part of the Mangala Valles region of Mars. 1985. Scale 1:500,000 (1 inch = about 8 miles). Sheet 27 by 38 inches.

I-1707. Controlled photomosaic of part of the Maja Valles region of Mars. 1985. Scale 1:500,000 (1 inch = about 8 miles). Sheet 27 by 38 inches.

I-1716. Controlled photomosaic of part of the Maja Valles region of Mars. 1985. Scale 1:500,000 (1 inch = about 8 miles). Sheet 27 by 38 inches.

I-1717. Controlled photomosaic of part of the Maja Valles region of Mars. 1985. Scale 1:500,000 (1 inch = about 8 miles). Sheet 27 by 38 inches.

I-1718. Controlled photomosaic of part of the Maja Valles region of Mars. 1985. Scale 1:500,000 (1 inch = about 8 miles). Sheet 27 by 38 inches.

I-1719. Controlled photomosaic of part of the Maja Valles region of Mars. 1985. Scale 1:500,000 (1 inch = about 8 miles). Sheet 27 by 38 inches.

I-1720. Controlled photomosaic of part of the Maja Valles region of Mars. 1985. Scale 1:500,000 (1 inch = about 8 miles). Sheet 27 by 38 inches.

I-1721. Controlled photomosaic of part of the Maja Valles region of Mars. 1985. Scale 1:500,000 (1 inch = about 8 miles). Sheet 27 by 38 inches.

I-1722. Controlled photomosaic of part of the Kasei Valles region of Mars. 1985. Scale 1:500,000 (1 inch = about 8 miles). Sheet 27 by 38 inches.

I-1723. Controlled photomosaic of part of the Kasei Valles region of Mars. 1985. Scale 1:500,000 (1 inch = about 8 miles). Sheet 27 by 38 inches.

I-1727-A. KENTUCKY. Geologic map of the Hazard 30′ by 60′ Quadrangle, eastern Kentucky, by C. L. Rice. 1985. Lat 37° to 37°30′, long 83° to 84°. Scale 1:100,000 (1 inch = about 1.6 miles). Sheet 29 by 53 inches.

I-1766. Indexes of Mars topographic maps published by the U.S. Geological Survey. 1985. Sheet 26 by 37 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-0091. WYOMING. Geologic map and coal resources of the Maverick Spring Quadrangle, Fremont County, Wyoming, by R. C. Warlow. 1985. Lat 43°22′30″ to 43°30′, long 108°52′30″ to 109°. Scale 1:24,000 (1 inch = 2,000 feet). Sheet 33 by 34 inches.

C-0097-A. COLORADO. Geologic map and cross sections of the Carbondale 30′ by 60′ Quadrangle, west-central Colorado, by M. S. Ellis, and V. L. Freeman. 1984 (1985). Lat 39° to 39°30′, long 107° to 108°. Scale 1:100,000 (1 inch = about 1.6 miles). Sheet 33 by 42 inches.

C-0099. COLORADO. Geologic map and coal sections of the Sawmill Mountain Quadrangle, Rio Blanco County, Colorado, by M. C. Reheis. 1984 (1985). Lat 40° to 40°07′30″, long 107°37′30″ to 107°45′. Scale 1:24,000 (1 inch = 2,000 feet). Sheet 32 by 43 inches. (Supersedes Open-file report 80-252.)

C-0100. COLORADO. Geologic map and coal sections of the Thornburgh Quadrangle, Moffat and Rio Blanco counties, Colorado, by M. C. Reheis. 1984 (1985). Lat 40°07′30″ to 40°15′, long 107°37′30″ to 107°45′. Scale 1:24,000 (1 inch = 2,000 feet). Sheet 33 by 53 inches. (Supersedes Open-file report 80-251.)

C-0101. MARYLAND. Coal geology of the lower Youghiogheny coal field, Garrett County, Maryland, by E. F. Jacobsen, and P. C. Lyons. 1985. Lat 39°32'30" to about 39°42'30", long 79°17'30" to about 79°27'30". Scale 1:24,000 (1 inch = 2,000 feet). Sheet 42 by 45 inches.

OIL AND GAS INVESTIGATIONS CHARTS

Charts show stratigraphic information for certain oil and gas fields and other areas having hydrocarbon potential.

OC-0125. UTAH. Stratigraphic sections of the Upper Triassic Chinle Formation in the Capitol Reef, Circle Cliffs, and Monument Uplift areas, Southeast Utah, by Robert Lupe. 1984 (1985). Sheet 35 by 50 inches.

OC-0126. NORTH DAKOTA, MONTANA. Selected physical properties of the Bakken Formation, North Dakota and Montana part of the Williston Basin, by T. C. Hester, and J. W. Schmoker. 1985. Lat about 47° to 49°, long about 101° to about 106°. Sheet 33 by 40 inches. (Supersedes Open-file report 83-717.)

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.

MF-0391. ALASKA. Metallic mineral resources map of the Circle Quadrangle, Alaska, compiled by E. H. Cobb. 1972. Lat 65° to 66°, long 144° to 147°. Scale 1:250,000 (1 inch = about 4 miles). Sheet 24 by 33 inches. (Reprint.)

MF-0392. ALASKA. Metallic mineral resources map of the Cordova Quadrangle, Alaska, compiled by E. H. Cobb. 1972. Lat 60° to 61°, long 144° to 147°. Scale 1:250,000 (1 inch = about 4 miles). Sheet 23 by 37 inches. (Reprint.)

MF-0484. CALIFORNIA. Preliminary geologic map of Solano County and parts of Napa, Contra Costa, Marin, and Yolo counties, California, compiled by J. D. Sims, K. F. Fox, Jr., J. A. Bartow, and E. J. Helley. 1973. Five sheets. Lat 38° to 38°45', long 121°30' to 122°30'. Sheet 1, 24 by 31 inches; sheet 2, 23 by 30 inches; sheet 3, 23 by 30 inches; sheet 4, 23 by 29 inches; sheet 5, 23 by 30 inches. (Reprint.)

MF-0491. MONTANA. Reconnaissance geologic map of the Mount Wood Quadrangle, Montana, compiled by N. J. Page, F. S. Simons, and J. C. Dohrenwend. 1973. Lat 45°15' to 45°30', long 109°45' to 110°. Scale 1:62,500 (1 inch = about 1 mile). Sheet 23 by 34 inches. (Reprint.)

MF-0518. CALIFORNIA. Fault map of the Monterey Bay region, California, by H. G. Greene, W. H. Lee, D. S. McCulloch, and E. E. Brabb. 1973. Four sheets. Lat 36°15' to 37°15', long 121°15' to about 122°. Scale 1:200,000 (1 inch = about 3.2 miles). Sheet 1, 24 by 30 inches; sheet 2, 24 by 29 inches; sheet 3, 27 by 28 inches; sheet 4, 27 by 30 inches. (Accompanied by 14-page text.) (Reprint.)

MF-0537. NEVADA. Preliminary geologic map of the Carlin gold mine, Eureka County, Nevada, by A. S. Radtke. 1973. Sheet 23 by 35 inches. (Reprint.)

MF-0585. CALIFORNIA. Preliminary map showing recency of faulting in coastal Southern California, by J. I. Ziony, C. M. Wentworth, J. M. Buchanan-Banks, and H. C. Wagner. 1974. Three sheets. Sheet 1, lat 33° to 34°45', long about 118°45' to 120°45'; sheet 2, lat about 32°30' to about 34°15', long 116°45' to 118°30'; sheet 3, lat about 33° to about 35°, long about 117° to about 120°. Scale 1:250,000 (1 inch = about 4 miles). Sheet 1, 30 by 33 inches; sheet 2, 31 by 41 inches; sheet 3, 35 by 36 inches. (Reprint.)

MF-0739. UTAH. Geologic map of the Lopers Spring Quadrangle, Beaver County, Utah, by M. G. Best. 1976. Lat 38°22'30" to 38°30', long 113°52'30" to 114°. Scale 1:24,000 (1 inch = 2,000 feet). Sheet 29 by 39 inches. (Reprint.)

MF-0740. COLORADO. Reconnaissance map showing relative amounts of soil and bedrock in the mountainous part of the Morrison-Evergreen quadrangles and adjoining areas to the west in Jefferson County, Colorado, by P. W. Schmidt. 1976. Lat 39°37'30" to 39°45', long about 105°12'30" to about 105°22'30". Scale 1:24,000 (1 inch = 2,000 feet). Sheet 35 by 38 inches. (Reprint.)

MF-0750. CALIFORNIA. Reconnaissance geologic map of the pre-Cenozoic basement rocks, northern Santa Lucia Range, Monterey County, California, by D. C. Ross. 1976. Two sheets. Lat about 36° to about 36°30', long about 121°30' to about 121°45'. Scale 1:125,000 (1 inch = about 2 miles). Sheet 1, 26 by 39 inches; sheet 2, 26 by 38 inches. (Accompanied by 7-page text.) (Reprint.)

MF-0793. ARIZONA. Reconnaissance geologic map of the Vaca Hills Quadrangle, Arizona, by N. G. Banks, and R. D. Docter. 1976. Lat 32°15' to 32°30', long 111°30' to 111°45'. Scale 1:62,500 (1 inch = about 1 mile). Sheet 26 by 41 inches. (Reprint.)

MF-0794. WASHINGTON. Preliminary geologic map of the Chiwaukum 4 NE Quadrangle, Chiwaukum Graben, Washington, by J. T. Whetten, and J. A. Laravie. 1976. Lat 47°37'30" to 47°45', long 120°30' to 120°37'30". Scale 1:24,000 (1 inch = 2,000 feet). Sheet 26 by 38 inches. (Reprint.)

MF-0858-G. MONTANA. Aeromagnetic and generalized geologic map of the Choteau 1° by 2° Quadrangle, Montana, by M. D. Kleinkopf. 1980. Lat 47° to 48°, long 112° to 114°. Scale 1:250,000 (1 inch = about 4 miles). Sheet 35 by 42 inches. (Reprint.)

MF-0879-C. ALASKA. Map showing distribution of mineral resources (excepting oil and gas) in the Philip Smith Mountains Quadrangle, Alaska, by W. D. Menzie, H. N. Reiser, W. P. Brosgé, and R. L. Detterman. 1985. Lat 68° to 69°, long 147° to 150°. Scale 1:250,000 (1 inch = about 4 miles). Sheet 41 by 46 inches.

MF-0880-F. ALASKA. Geochemical maps showing the distribution and abundance of gold in stream sediments and of gold and silver in heavy-mineral concentrates in the Seward and Blying Sound quadrangles, Alaska, by R. B. Tripp, W. D. Crim, and R. M. O'Leary. 1978. Two sheets. Sheet 1, lat 59°30' to 61°, long 147° to 150°; sheet 2, lat 30° to 61°, long 147° to 150°. Scale 1:250,000 (1 inch = about 4 miles). Sheet 1, 32 by 41 inches; sheet 2, 39 by 55 inches. (Reprint.)

MF-0890. IDAHO, UTAH. Geologic map of the Ireland Springs-Samaria area, southeastern Idaho and northern Utah, by L. B. Platt. 1977. Lat 42° to 42°15′, long 112°15′ to 112°30′. Scale 1:48,000 (1 inch = 4,000 feet). Sheet 25 by 29 inches. (Reprint.)

MF-0928-O. ALASKA. Structure maps of top of Sadlerochit Group and cross sections of Sadlerochit reservoir, eastern North Slope petroleum province, Alaska, compiled by I. L. Tailleur, and S. E. Engwicht. 1978. Scale 1:500,000 (1 inch = about 8 miles). Sheet 25 by 31 inches. (Reprint.)

MF-1000-B. MISSOURI. Geologic map of the Rolla 1° by 2° Quadrangle, Missouri, by W. P. Pratt, U.S. Geological Survey, M. A. Middendorf and I. R. Satterfield, Missouri Geological Survey, and P. E. Gerdemann, St. Joe Minerals Corporation. 1985. Lat 37° to 38°, long 90° to 92°. Scale 1:250,000 (1 inch = about 4 miles). Sheet 33 by 51 inches.

MF-1052. Preliminary map showing Quaternary deposits and their dating potential in the conterminous United States, compiled by S. M. Colman, and K. L. Pierce. 1979. Lat about 25° to about 45°, long about 65° to about 125°. Scale 1:7,500,000 (1 inch = about 118 miles). Sheet 26 by 44 inches. (Reprint.)

MF-1053-L. ALASKA. Map showing onshore energy resources of the Chignik and Sutwik Island quadrangles, Alaska, by R. L. Detterman, J. E. Case, and M. E. Yount. 1984 (1985). Two sheets. Sheet 1, lat 56° to 57°, long about 156°30′ to 160°30′. Scale 1:250,000 (1 inch = about 4 miles). Sheet 1, 38 by 49 inches; sheet 2, 24 by 29 inches.

MF-1059. ALABAMA. Seismicity map of the State of Alabama, by C. W. Stover, B. G. Reagor, and S. T. Algermissen. 1979. Lat about 30° to about 35°, long about 85° to about 88°. Scale 1:1,000,000 (1 inch = about 16 miles). Sheet 23 by 33 inches. (Reprint.)

MF-1114-B. ALASKA. Mineral resource map of the Lake Clark Quadrangle, Alaska, by W. H. Nelson, H. D. King, J. E. Case, R. B. Tripp, W. D. Crim, and E. F. Cooley. 1985. Lat 60° to 61°, long 153° to 156°. Scale 1:250,000 (1 inch = 4 miles). Sheet 37 by 49 inches.

MF-1114-C. ALASKA. Maps showing the distribution and abundance of selected elements in two geochemical sampling media, Lake Clark Quadrangle, Alaska, by H. D. King, R. B. Tripp, E. F. Cooley, and W. D. Crim. 1985. Four sheets. Lat 60° to 61°, long 153° to 156°. Scale 1:250,000 (1 inch = about 4 miles). Sheet 1, 39 by 50 inches; sheet 2, 27 by 38 inches; sheet 3, 23 by 32 inches; sheet 4, 32 by 48 inches.

MF-1114-F. ALASKA. Map showing interpretation of Landsat imagery of the Lake Clark Quadrangle, Alaska, by W. C. Steele. 1985. Lat 60° to 61°, long 153° to 156°. Scale 1:250,000 (1 inch = about 4 miles). Sheet 29 by 44 inches.

MF-1139. UTAH. Geologic map of the Delano Peak SE Quadrangle, west-central Utah, by C. G. Cunningham, J. J. Anderson, and T. A. Steven. 1979. Lat 38°15′ to 38°22′30″, long 112°15′ to 112°22′30″. Scale 1:24,000 (1 inch = 2,000 feet). Sheet 28 by 36 inches. (Reprint.)

MF-1167. CALIFORNIA. Landslide maps showing field classification, Point Dume Quadrangle, California, by R. H. Campbell. 1980. Lat 34° to 34°07′30″, long 118°45′ to 118°52′30″. Scale 1:24,000 (1 inch = 2,000 feet). Sheet 37 by 40 inches. (Reprint.)

MF-1176-B. ALASKA. Map and interpretation of the structural geology of the Survey Pass Quadrangle, Brooks Range, Alaska, by D. J. Grybeck, and S. W. Nelson. 1981. Lat 67° to 68°, long 153° to 156°. Scale 1:250,000 (1 inch = about 4 miles). Sheet 27 by 36 inches. (Reprint.)

MF-1196-C. CALIFORNIA. Map showing mineral-resource potential of King Range and Chemise Mountain Instant Study Areas, Humboldt and Mendocino counties, California, by R. J. McLaughlin, D. H. Sorg, H. N. Ohlin, and E. C. Beutner, U.S. Geological Survey, and T. J. Peters, U.S. Bureau of Mines. 1981. Lat about 40° to about 40°15′, long about 124° to about 124°15′. Sheet 20 by 39 inches. (Accompanied by 20-page text.) (Reprint.)

MF-1213. Distribution of salt structures in the Gulf of Mexico; map and descriptive text, by R. G. Martin. 1980. Two sheets. Lat 17° to 32°, long 78° to 100°. Scale 1:2,500,000 (1 inch = about 40 miles). Sheet 1, 40 by 50 inches; sheet 2, 45 by 47 inches. (Accompanied by 8-page text.) (Reprint.)

MF-1240-F. OREGON. Maps showing geochemical characteristics of platinum-group elements and gold in rock samples from the Kalmiopsis Wilderness, southwestern Oregon, by N. J Page, R. R. Carlson, Floyd Gray, and C. A. Carlson, U.S. Geological Survey, and M. S. Miller, U.S. Bureau of Mines. 1985. Two sheets. Sheet 1, lat 42° to 42°30′, long 123°45′ to 124°15′; sheet 2, Lat 42° to 42°30′, long 123°45′ to 124°10′. Scale 1:62,500 (1 inch = about 1 mile). Sheet 1, 35 by 42 inches; sheet 2, 38 by 40 inches.

MF-1241. MASSACHUSETTS. Bedrock geologic maps of the Boston North, Boston South, and Newton quadrangles, Massachusetts, by C. A. Kaye. 1980. Two sheets. Lat 42°15′ to 42°30′, long 71° to 71°15′. Scale 1:24,000 (1 inch = 2,000 feet). Sheet 1, 43 by 49 inches; sheet 2, 35 by 49 inches. (Reprint.)

MF-1246-B. UTAH. Maps showing distribution of arsenic in heavy-mineral concentrates, Richfield 1° by 2° Quadrangle, Utah, by W. R. Miller, J. M. Motooka, and J. B. McHugh. 1985. Lat 38° to 39°, long 112° to 114°. Scale 1:500,000 (1 inch = about 8 miles). Sheet 27 by 35 inches.

MF-1246-C. UTAH. Maps showing distribution of barium in heavy-mineral concentrates, Richfield 1° by 2° Quadrangle, Utah, by W. R. Miller, J. M. Motooka, and J. B. McHugh. 1985. Lat 38° to 39°, long 112° to 114°. Scale 1:500,000 (1 inch = about 8 miles). Sheet 27 by 35 inches.

MF-1246-D. UTAH. Maps showing distribution of beryllium in heavy-mineral concentrates and stream sediments, Richfield 1° by 2° Quadrangle, Utah, by W. R. Miller, J. M. Motooka, and J. B. McHugh. 1985. Lat 38° to 39°, long 112° to 114°. Scale 1:500,000 (1 inch = about 8 miles). Sheet 27 by 40 inches.

MF-1246-E. UTAH. Maps showing distribution of bismuth in heavy-mineral concentrates, Richfield 1° by 2° Quadrangle, Utah, by W. R. Miller, J. M. Motooka, and J. B. McHugh. 1985. Lat 38° to 39°, long 112° to 114°. Scale 1:500,000 (1 inch = about 8 miles). Sheet 27 by 35 inches.

MF-1246-F. UTAH. Maps showing distribution of copper in heavy-mineral concentrates, Richfield 1° by 2° Quadrangle, Utah, by W. R. Miller, J. M. Motooka, and J. B. McHugh. 1985. Lat 38° to 39°, long 112° to 114°. Scale 1:500,000 (1 inch = about 8 miles). Sheet 27 by 35 inches.

MF-1246-G. UTAH. Maps showing distribution of lead in heavy-mineral concentrates, Richfield 1° by 2° Quadrangle, Utah, by W. R. Miller, J. M. Motooka, and J. B. McHugh. 1985. Lat 38° to 39°, long 112° to 114°. Scale 1:500,000 (1 inch = about 8 miles). Sheet 27 by 35 inches.

MF-1246-H. UTAH. Maps showing distribution of thorium in heavy-mineral concentrates, Richfield 1° by 2° Quadrangle, Utah, by W. R. Miller, J. M. Motooka, and J. B. McHugh. 1985. Lat 38° to 39°, long 112° to 114°. Scale 1:500,000 (1 inch = about 8 miles). Sheet 27 by 35 inches.

MF-1246-I. UTAH. Maps showing distribution of tin in heavy-mineral concentrates, Richfield 1° by 2° Quadrangle, Utah, by W. R. Miller, J. M. Motooka, and J. B. McHugh. 1985. Lat 38° to 39°, long 112° to 114°. Scale 1:500,000 (1 inch = about 8 miles). Sheet 27 by 35 inches.

MF-1246-J. UTAH. Maps showing distribution of tungsten in heavy-mineral concentrates, Richfield 1° by 2° Quadrangle, Utah, by W. R. Miller, J. M. Motooka, and J. B. McHugh. 1985. Lat 38° to 39°, long 112° to 114°. Scale 1:500,000 (1 inch = about 8 miles). Sheet 27 by 35 inches.

MF-1246-K. UTAH. Maps showing distribution of zinc in heavy-mineral concentrates, Richfield 1° by 2° Quadrangle, Utah, by W. R. Miller, J. M. Motooka, and J. B. McHugh. 1985. Lat 30° to 39°, long 112° to 114°. Scale 1:500,000 (1 inch = about 8 miles). Sheet 27 by 35 inches.

MF-1254. WASHINGTON. Preliminary aerial photographic interpretative map showing features related to the May 18, 1980 eruption of Mount St. Helens, Washington. 1980. Lat 46° to 46°30′, long 122° to 122°30′. Scale 1:62,500 (1 inch = about 1 mile). Sheet 27 by 42 inches. (Reprint.)

MF-1271-D. WEST VIRGINIA. Geochemical survey of the Cheat Mountain Roadless Area, Randolph County, West Virginia, by A. E. Grosz, and E. F. Cooley. 1984 (1985). Lat about 38°45′ to about 38°50′, long about 79°45′ to about 79°50′ . Scale 1:50,000 (1 inch = about 4,200 feet). Sheet 38 by 40 inches.

MF-1287-A. SOUTH CAROLINA, NORTH CAROLINA, GEORGIA. Geochemical maps of the Ellicott Rock Wilderness and additions, South Carolina, North Carolina, and Georgia, by R. W. Luce and Henry Bell, III, U.S. Geological Survey, and G. C. Gazdik, U.S. Bureau of Mines. 1985. 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 42 by 43 inches.

MF-1287-C. SOUTH CAROLINA, NORTH CAROLINA, GEORGIA. Aeromagnetic map and selected aeroradiometric data for the Ellicott Rock Wilderness and additions, South Carolina, North Carolina, and Georgia, by R. W. Luce, and D. L. Daniels. 1985. 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 28 by 31 inches.

MF-1287-E. SOUTH CAROLINA, NORTH CAROLINA, GEORGIA. Map showing mines, prospects, and mineral sites in the Ellicott Rock Wilderness and additions, South Carolina, North Carolina, and Georgia, by G. C. Gazdik, U.S. Bureau of Mines. 1985. 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 30 by 42 inches.

MF-1343-C. NEVADA. Geophysical maps of the Wheeler Peak and Highland Ridge Further Planning Areas, White Pine County, Nevada, by C. K. Moss, and G. A. Abrams. 1985. Lat 38°45′ to about 39°05′, long 114°05′ to 114°25′. Scale 1:62,500 (1 inch = about 1 mile). Sheet 40 by 56 inches.

MF-1347-E. GEORGIA. Aeromagnetic map and analysis of aeromagnetic and aeroradioactivity data in the Blood Mountain, Chattahoochee, and Tray Mountain Roadless Areas, northern Georgia, by D. R. Daniels. 1985. Lat about 34°40′ to 35°, long 83°30′ to 84°. Scale 1:62,500 (1 inch = about 1 mile). Sheet 41 by 42 inches.

MF-1361-A. CALIFORNIA, NEVADA. Geologic map of the White Mountains Wilderness and Roadless Areas, California and Nevada, compiled by E. H. McKee, M. F. Diggles, J. L. Donahoe, and G. S. Elliot. 1982. Lat about 37°15′ to about 37°55′, long 118° to 118°30′. Scale 1:62,500 (1 inch = about 1 mile). Sheet 40 by 56 inches. (Reprint.)

MF-1373. NEVADA, CALIFORNIA. Reconnaissance surficial geologic map of the Aurora Quadrangle, Nevada and California, by J. C. Dohrenwend. 1982. Lat 38°15′ to 38°30′, long 118°45′ to 119°. Scale 1:62,500 (1 inch = about 1 mile). Sheet 26 by 27 inches. (Reprint.)

MF-1383-F. OREGON, CALIFORNIA. Mineral deposits and probability of exploration, Medford 1° by 2° Quadrangle, Oregon and California, by R. M. Smith, and J. A. Peterson. 1985. Four sheets. Lat 42° to 43°, long 122° to 124°. Scale 1:250,000 (1 inch = about 4 miles). Sheet 1, 24 by 38 inches; sheet 2, 23 by 33 inches; sheet 3, 24 by 38 inches; sheet 4, 24 by 33 inches. (Accompanied by 33-page text.)

MF-1383-G. OREGON, CALIFORNIA. Map showing abundance and distribution of copper in oxide residues of stream-sediment samples, Medford 1° by 2° Quadrangle, Oregon-California, by C. L. Whittington, D. J. Grimes, and R. W. Leinz. 1985. Lat 42° to 43°, long 122° to 124°. Scale 1:250,000 (1 inch = about 4 miles). Sheet 26 by 40 inches.

MF-1383-H. OREGON, CALIFORNIA. Map showing abundance and distribution of silver in stream-sediment samples, Medford 1° by 2° Quadrangle, Oregon-California, by C. L. Whittington, D. J. Grimes, and R. W. Leinz. 1985. Lat 42° to 43°, long 122° to 124°. Scale 1:250,000 (1 inch = about 4 miles). Sheet 22 by 47 inches.

MF-1383-I. OREGON, CALIFORNIA. Map showing abundance and distribution of chromium in stream-sediment samples, Medford 1° by 2° Quadrangle, Oregon-California, by C. L. Whittington, D. J. Grimes, and R. W. Leinz. 1985. Lat 42° to 43°, long 122° to 124°. Scale 1:250,000 (1 inch = about 4 miles). Sheet 23 by 41 inches.

MF-1383-J. OREGON, CALIFORNIA. Map showing abundance and distribution of arsenic in oxide residues of stream-sediment samples, Medford 1° by 2° Quadrangle, Oregon-California, by C. L. Whittington, R. W. Leinz, and D. J. Grimes. 1985. Lat 42° to 43°, long 122° to 124°. Scale 1:250,000 (1 inch = about 4 miles). Sheet 23 by 47 inches.

MF-1383-K. OREGON, CALIFORNIA. Map showing abundance and distribution of mercury in rock samples, Medford 1° by 2° Quadrangle, Oregon-California, by C. L. Whittington, R. W. Leinz, and D. J. Grimes. 1985. Lat 42° to 43°, long 122° to 124°. Scale 1:250,000 (1 inch = about 4 miles). Sheet 25 by 42 inches.

MF-1389-C. CALIFORNIA. Geochemical map of the Dinkey Lakes Roadless Area, Fresno County, California, by D. B. Smith, B. M. Adrian, R. B. Vaughn, and C. M. McDougal. 1985. Lat 37° to 37°25′, long 118°50′ to 119°10′. Scale 1:62,500 (1 inch = about 1 mile). Sheet 33 by 33 inches.

MF-1403. WASHINGTON, OREGON. Comparative physiographic diagrams of Mount St. Helens, Washington, and Crater Lake, Oregon, by T. R. Alpha, and J. M. Morley. 1983. Lat 42° to about 48°, long about 118° to about 122°. Sheet 30 by 36 inches. (Reprint.)

MF-1405-B. ILLINOIS. Geochemical survey of the Lusk Creek Roadless Area, Pope County, Illinois, by J. S. Klasner, U.S. Geological Survey and Western Illinois University, and G. W. Day, U.S. Geological Survey. 1984 (1985). Two sheets. Lat about 37°30′ to about 37°32′30″, long about 88°30′ to about 88°32′30″. Scale 1:24,000 (1 inch = 2,000 feet). Sheet 1, 33 by 34 inches; sheet 2, 40 by 45 inches.

MF-1412-C. ARIZONA. Geophysical maps of the North End Roadless Area, Chiricahua Mountains, Cochise County, Arizona, by C. K. Moss, and G. A. Abrams. 1985. Two sheets. Lat about 32° to about 32°10′, long about 109°15′ to about 109°20′. Scale 1:50,000 (1 inch = about 4,200 feet). Sheet 1, 23 by 37 inches; sheet 2, 20 by 21 inches.

MF-1412-D. ARIZONA. Mineral resource potential map of the North End Roadless Area, Chiricahua Mountains, Cochise County, Arizona, by Harald Drewes, C. K. Moss, K. C. Watts, and C. L. Forn, U.S. Geological Survey, and P. R. Bigsby, U.S. Bureau of Mines. 1983. Lat about 32° to about 32°10′, long about 109°15′ to about 109°20′. Scale 1:50,000 (1 inch = about 4,200 feet). Sheet 22 by 36 inches. (Accompanied by 9-page text.) (Reprint.)

MF-1419-C. CALIFORNIA. Map showing geochemical summary for the Chips Creek and Bucks Lake Roadless Areas, Butte and Plumas counties, California, by J. A. Peterson, and M. L. Sorensen. 1985. Lat about 39°50′ to about 40°05′, long about 121°05′ to about 121°25′. Scale 1:62,500 (1 inch = about 1 mile). Sheet 30 by 45 inches.

MF-1423-C. CALIFORNIA, OREGON. Map showing geochemical characteristics of the North Fork Smith River Roadless Areas, Del Norte County, California, Curry and Josephine counties, Oregon, by N. J. Page, C. A. Carlson, Floyd Gray, R. A. Carlson, P. H. Briggs, Joseph Haffty, and E. F. Cooley. 1985. Lat 41°50′ to 42°, long about 123°50′ to 124°. Scale 1:62,500 (1 inch = about 1 mile). Sheet 42 by 50 inches.

MF-1427-C. CALIFORNIA. Map showing geochemical summary for the Bald Rock and Middle Fork Feather River Roadless Areas, Butte and Plumas counties, California, by J. A. Peterson, and M. L. Sorensen. 1985. Lat 39°35′ to 39°55′, long 120°50′ to about 121°20′. Scale 1:62,500 (1 inch = about 1 mile). Sheet 36 by 47 inches.

MF-1466-D. IDAHO. Map showing geochemistry of stream sediments in the Jerry Peak Wilderness Study Area, Custer County, Idaho, by J. E. Callahan, D. H. McIntyre, E. F. Cooley, and T. M. Cookro. 1984 (1985). Lat 44° to 44°15′, long 114° to 114°22′30″. Scale 1:50,000 (1 inch = about 4,200 feet). Sheet 26 by 39 inches.

MF-1469-B. MONTANA. Mineral resource potential map of the Sapphire Wilderness Study Area and contiguous roadless areas, Granite and Ravalli counties, Montana, by C. A. Wallace, D. J. Lidke, J. E. Elliott, J. C. Antweiler, W. L. Campbell, J. H. Hassemer, and W. F. Hanna, U.S. Geological Survey, and D. P. Banister and T. J. Close, U.S. Bureau of Mines. 1984 (1985). Two sheets. Lat about 45°57′30″ to about 46°15′, long 113°30′ to 113°52′30″. Scale 1:50,000 (1 inch = about 4,200 feet). Sheet 1, 35 by 47 1/2 inches; sheet 2, 35 by 47 1/2 inches. (Accompanied by 32-page text.)

MF-1485. NEVADA. Preliminary geologic map of the Pamlico Quadrangle, Mineral County, Nevada, by J. S. Oldow. 1985. Lat 38°22′30″ to 38°30′, long 118°22′30″ to 118°30′. Scale 1:24,000 (1 inch = 2,000 feet). Sheet 38 by 39 inches.

MF-1486. NEVADA. Preliminary geologic map of the Mable Mountain Quadrangle, Mineral County, Nevada, by J. S. Oldow, and M. R. Steuer. 1985. Lat 38°22′30″ to 38°30′, long 118°15′ to 118°22′30″. Scale 1:24,000 (1 inch = 2,000 feet). Sheet 38 by 41 inches.

MF-1487. NEVADA. Preliminary geologic map of the Mina NW Quadrangle, Mineral County, Nevada, by J. S. Oldow, and R. C. Speed. 1985. Lat 38°22′30″ to 38°30′, long 118°07′30″ to 118°15′. Scale 1:24,000 (1 inch = 2,000 feet). Sheet 36 by 39 inches.

MF-1491. UTAH. Geologic map of the Bulls Pass Quadrangle, Box Elder County, Utah, by T. E. Jordan. 1985. Lat about 41°45′ to 41°52′30″, long 112°30′ to about 112°37′30″. Scale 1:24,000 (1 inch = 2,000 feet). Sheet 31 by 38 inches.

MF-1520. CONNECTICUT. Surficial geologic map of the Norwalk North Quadrangle, Connecticut, by E. H. London. 1984 (1985). Lat 41°07′30″ to 41°15′, long 73°22′30″ to 73°30″. Scale 1:24,000 (1 inch = 2,000 feet.) Sheet 31 by 37 inches. (Reprint.)

MF-1527-A. VIRGINIA. Geologic map of the southern Massanutten Roadless Area, Page and Rockingham counties, Virginia, by F. G. Lesure. 1985. Lat 38°22′30″ to 38°37′30″, long 78°37′30″ to 78°45′. Scale 1:48,000 (1 inch = 4,000 feet). Sheet 27 by 40 inches.

MF-1527-B. VIRGINIA. Geochemical maps of the southern Massanutten Roadless Area, Page and Rockingham counties, Virginia, by F. G. Lesure, and C. L. Forn. 1985. Lat 38°22′30″ to 38°37′30″, long 78°37′30″ to 78°45′. Scale 1:48,000 (1 inch = 4,000 feet). Sheet 38 by 48 inches.

MF-1539-B. ALASKA. Megafossil locality map, checklists, and pre-Quaternary stratigraphic sections of Ugashik, Bristol Bay, and part of Karluk quadrangles, Alaska, by R. L. Detterman, J. W. Miller, and J. E. Case. 1985. Three sheets. Sheet 1, lat 57° to 58°, long 155° to 158°41′. Scale 1:250,000 (1 inch = about 4 miles). Sheet 1, 35 by 43 inches; sheet 2, 30 by 37 inches; sheet 3, 32 by 45 inches.

MF-1558-B. ARIZONA. Geochemical map of the Wet Beaver Roadless Area, Coconino and Yavapai counties, Arizona, by W. J. Gerstel. 1985. Lat about 34°39′ to about 34°42′, long 111°30′ to 111°40′. Scale 1:24,000 (1 inch = 2,000 feet). Sheet 28 by 36 inches.

MF-1560-B. NEW MEXICO. Geochemical map of the Guadalupe Escarpment Wilderness Study Area, Eddy County, New Mexico, by T. D. Light, J. A. Domenico, and S. M. Smith. 1985. Lat 32° to about 32°07'30", long about 104°40" to about 104°50'. Scale 1:24,000 (1 inch = 2,000 feet). Sheet 30 by 42 inches.

MF-1565-B. ILLINOIS. Geochemical survey of the Burden Falls Roadless Area, Pope County, Illinois, by J. S. Klasner, U.S. Geological Survey and Western Illinois University, and G. W. Day, U.S. Geological Survey. 1985. Sheet 30 by 36 inches.

MF-1566-C. UTAH, IDAHO. Geophysical maps of the Mount Naomi Roadless Area, Cache County, Utah, and Franklin County, Idaho, by D. R. Mabey. 1985.

MF-1567-B. ARIZONA. Geochemical map of the Rattlesnake Roadless Area, Coconino and Yavapai counties, Arizona, by W. J. Gerstel. 1985. Lat 34°40' to 34°52'30", long 111°37'30" to about 111°47'30". Scale 1:24,000 (1 inch = about 2,000 feet). Sheet 41 by 43 inches.

MF-1569-B. MONTANA. Geologic map of the Gallatin Divide Roadless Area, Gallatin and Park counties, Montana, by F. S. Simons, R. E. Van Loenen, and S. L. Moore. 1985. Lat about 45°05' to about 45°30', long about 110°50' to 111°15'. Scale 1:62,500 (1 inch about 1 mile). Sheet 38 by 47 inches.

MF-1586-A. GEORGIA. Geology of the Rich Mountain Roadless Area, Gilman and Fannin counties, Georgia, by M. P. Foose. 1985. Lat about 34°42'30" to about 34°45', long about 84°17'30" to about 84°25'. Scale 1:48,000 (1 inch = 4,000 feet). Sheet 30 by 31 inches.

MF-1586-B. GEORGIA. Geochemical survey of the Rich Mountain Roadless Area, Gilman and Fannin counties, Georgia, by M. P. Foose, and C. M. Sears. 1985. Lat about 34°42'30" to about 34°45', long about 83°17'30" to about 84°25'. Scale 1:48,000 (1 inch = 4,000 feet). Sheet 42 by 56 inches.

MF-1588-B. COLORADO. Generalized geologic map of the Vasquez Peak Wilderness Study Area and the Williams Fork and St. Louis Peak Roadless Areas, Clear Creek, Grand, and Summit counties, Colorado, by R. G. Eppinger, P. K. Theobald, and R. R. Carlson. 1985. Lat 39°38' to 39°57', long 105°45' to 106°08'. Scale 1:50,000 (1 inch = about 4,200 feet). Sheet 35 by 45 inches.

MF-1588-C. COLORADO. Map showing hydrothermal alteration and fluorite occurrences in the Vasquez Peak Wilderness Study Area and the Williams Fork and St. Louis Peak Roadless Areas, Clear Creek, Grand, and Summit counties, Colorado, by R. G. Eppinger, and P. K. Theobald. 1985. Lat 39°38' to 39°57', long 105°45' to 106°08'. Scale 1:50,000 (1 inch = about 4,200 feet). Sheet 32 by 45 inches.

MF-1588-D. COLORADO. Geophysical maps of the Vasquez Peak Wilderness Study Area and the Williams Fork and St. Louis Peak Roadless Areas, Clear Creek, Grand, and Summit counties, Colorado, by C. K. Moss, and G. A. Abrams. 1985. Two sheets. Lat 39°37' to 39°55', long 105°45' to 106°08'. Scale 1:50,000 (1 inch = about 4,200 feet). Sheet 1, 34 by 51 inches; sheet 2, 31 by 31 inches.

MF-1588-E. COLORADO. Maps showing anomaly patterns for silver, molybdenum, lead, and zinc in altered rocks and soils, Williams Fork and St. Louis Peak Roadless Areas, Clear Creek, Grand, and Summit counties, Colorado, by R. G. Eppinger, P. K. Theobald, H. N. Barton, and R. R. Carlson. 1985. Lat 39°42' to 39°53', long 105°52' to 106°03'. Scale 1:50,000 (1 inch = about 4,200 feet). Sheet 38 by 46 inches.

MF-1588-F. COLORADO. Map showing the distribution of selected mineral assemblages in nonmagnetic heavy-mineral concentrates from stream sediments from the Vasquez Peak Wilderness Study Area and the Williams Fork and St. Louis Peak Roadless Areas, Clear Creek, Grand, and Summit counties, Colorado, by R. G. Eppinger, P. K. Theobald, and S. J. Sutley. 1985. Lat 39°38' to 39°57', long 105°45' to 106°08'. Scale 1:50,000 (1 inch = about 4,200 feet). Sheet 33 by 45 inches.

MF-1589-D. MONTANA. Geophysical maps of the Ten Lakes Wilderness Study Area, Lincoln County, Montana, by Viki Bankey, D. B. Hoover, and M. D. Kleinkopf. 1985. Lat about 48°50' to 49°, long 114°45' to about 115°. Scale 1:48,000 (1 inch = 4,000 feet). Sheet 37 by 46 inches.

MF-1591-A. FLORIDA. Geologic map of the Farles Prairie and Buck Lake Roadless Areas, Marion County, Florida, by J. B. Cathcart, and S. H. Patterson. 1985. Scale 1:24,000 (1 inch = 2,000 feet). Sheet 38 by 40 inches.

MF-1594-A. NEW HAMPSHIRE. Bedrock geologic map of the wildernesses and roadless areas of the White Mountain National Forest, Coos, Carroll, and Grafton counties, New Hampshire, by N. L. Hatch, Jr., and R. H. Moench. 1984 (1985). Lat about 43°45' to about 44°15', long about 71° to about 71°45'. Scale 1:125,000 (1 inch = about 2 miles). Sheet 38 by 55 inches.

MF-1597-A. WYOMING. Mineral resource potential map of the northern part of the Washakie Wilderness and nearby roadless areas, Park County, Wyoming, by J. C. Antweiler, D. W. Rankin, F. S. Fisher, C. L. Long, and J. D. Love, U.S. Geological Survey, and C. L. Bieniewski and R. C. Smith, U.S. Bureau of Mines. 1985. Lat about 43°45' to 45°, long about 109° to about 110°. Scale 1:125,000 (1 inch = about 2 miles). Sheet 41 by 57 inches. (Accompanied by 24-page text.)

MF-1609-A. VERMONT. Geologic map of the Lye Brook Wilderness, Bennington and Windham counties, Vermont, by R. A. Ayuso, and G. R. Robinson, Jr. 1984 (1985). Lat 43° to about 43°07'30", long about 72°57'30" to 73°07'30". Scale 1:48,000 (1 inch = 4,000 feet). Sheet 21 by 27 inches.

MF-1611-A. VIRGINIA. Geologic map of the Devils Fork Roadless Area, Scott County, Virginia, by K. J. Englund, T. M. McKibbin, and W. R. Sigleo. 1984 (1985). Lat 36°46'30" to 36°51'30", long 82°37'30" to 82°43'. Scale 1:50,000 (1 inch = about 4,200 feet). Sheet 26 by 26 inches.

MF-1611-B. VIRGINIA. Geochemical survey of the Devils Fork Roadless Area, Scott County, Virginia, by A. E. Grosz, E. F. Cooley, and W. F. McCollough. 1985. Lat about 36°47' 30" to 36°52'30", long 82°37'30" to about 82°42'30". Scale 1:50,000 (1 inch = about 4,200 feet). Sheet 30 by 42 inches.

MF-1614-C. ARIZONA. Geophysical maps of the Whetstone Roadless Area, Cochise and Pima counties, Arizona, by Viki Bankey, and M. D. Kleinkopf. 1985. Lat 31°40′ to about 31°55′, long 110°15′ to 110°30′. Scale 1:48,000 (1 inch = 4,000 feet). Sheet 37 by 55 inches.

MF-1615-B. CALIFORNIA. Aeromagnetic, Bouguer gravity, and interpretation maps of the Sheep Hole-Cadiz Wilderness Study Area, San Bernardino County, California, by R. W. Simpson and R. E. Bracken, U.S. Geological Survey, and D. J. Stierman, University of Toledo, Toledo, Ohio. 1984 (1985). Four sheets. Lat 34° to 34°30′, long 115°15′ to 115°45′. Scale 1:62,500 (1 inch = about 1 mile). Sheet 1, 32 by 42 inches; sheet 2, 42 by 48 inches; sheet 3, 32 by 42 inches; sheet 4, 42 by 44 inches.

MF-1622-C. COLORADO. Reference section for the Minturn Formation (Middle Pennsylvanian), northern Sangre de Cristo Range, Custer County, Colorado, by D. A. Lindsey, R. F. Clark, and S. J. Soulliere. 1985. Two sheets. Sheet 2, about 37°52′30″ to about 38°07′30″, long about 105°30′ to about 105°45′. Sheet 1, 34 by 45 inches; sheet 2, 27 by 35 inches.

MF-1624. NEW MEXICO. Reconnaissance geologic map of the Toltec Mesa Quadrangle, Rio Arriba County, New Mexico, by Kim Manley, and R. A. Wobus. 1985. Lat 36°52′30″ to 37°, long 106°15′ to 106°22′30″. Scale 1:24,000 (1 inch = 2,000 feet). Sheet 25 by 27 inches.

MF-1626-C. VERMONT. Geochemical survey of the Devils Den Roadless Area, Rutland and Windsor counties, Vermont, by J. F. Slack, P. J. Atelsek, and A. E. Grosz. 1985. Lat about 43°20′, long about 72°50′. Scale 1:24,000 (1 inch = 2,000 feet). Sheet 42 by 56 inches.

MF-1628-B. COLORADO. Stream-sediment and panned-concentrate geochemical maps of the Buffalo Peaks Wilderness Study Area, Lake, Park, and Chaffee counties, Colorado, by G. A. Nowlan, and W. J. Gerstel. 1985. Two sheets. Lat about 39° to about 39°07′30″, long about 106°07′30″ to about 106°15′. Scale 1:50,000 (1 inch = about 4,200 feet). Sheet 1, 31 by 57 inches; sheet 2, 26 by 38 inches.

MF-1628-C. COLORADO. Geologic map of the Buffalo Peaks Wilderness Study Area, Lake, Park, and Chaffee counties, Colorado, by D. C. Hedlund. 1985. Lat about 39° to about 39°07′30″, long 106° to about 106°15′. Scale 1:50,000 (1 inch = about 4,200 feet). Sheet 29 by 36 inches.

MF-1629-A. COLORADO. Mineral resource potential map of the Fossil Ridge Wilderness Study Area, Gunnison County, Colorado, by Ed DeWitt, R. J. Stoneman, and J. R. Clark, U.S. Geological Survey, and S. E. Kluender, U.S. Bureau of Mines. 1985. Lat about 38°37′30″ to about 38°45′, long 106°30′ to 106°45′. Sheet 38 by 50 inches. (Accompanied by 21-page text.)

MF-1630-C. COLORADO. Geochemical map of the Piedra Wilderness Study Area, Archuleta and Hinsdale counties, Colorado, by K. J. Franczyk, S. M. Condon, and A. L. Bush. 1985. Two sheets. Sheet 1, lat about 37°15′ to 37°30′, long about 107°12′30″ to 107°25′. Scale 1:50,000 (1 inch = about 4,200 feet). Sheet 1, 32 by 44 inches; sheet 2, 29 by 42 inches.

MF-1631-B. NEW MEXICO. Geologic map of the Sandia Mountain Wilderness, Bernalillo and Sandoval counties, New Mexico, by D. C. Hedlund. 1985. Lat about 35°07′30″ to about 35°20′, long 106°22′30″ to 106°30′. Scale 1:50,000 (1 inch = about 4,200 feet). Sheet 30 by 32 inches.

MF-1631-D. NEW MEXICO. Aeromagnetic map of the Sandia Mountain Wilderness, Bernalillo and Sandoval counties, New Mexico, by D. C. Hedlund, and L. E. Cordell. 1985. Lat about 35°07′30″ to about 35°20′, long 106°22′30″ to 106°30′. Scale 1:50,000 (1 inch = about 4,200 feet). Sheet 16 by 29 inches.

MF-1632-B. COLORADO. Geologic and geochemical maps of the West Needle Wilderness Study Area, San Juan and La Plata counties, Colorado, by R. E. Van Loenen. 1985. Lat 37°35′ to 37°45′, long 107°37′30″ to 107°49′. Scale 1:50,000 (1 inch = about 4,200 feet). Sheet 30 by 37 inches.

MF-1645-C. ALASKA. Geochemical map showing distribution of barite, galena, and sphalerite within the Chugach National Forest, Alaska, by R. J. Goldfarb, R. B. Tripp, and S. M. Smaglik. 1985. Lat about 60° to about 61°, long about 144° to about 150°. Scale 1:250,000 (1 inch = about 4 miles). Sheet 40 by 56 inches.

MF-1645-D. ALASKA. Geochemical map showing distribution of gold within the Chugach National Forest, Alaska, by R. B. Tripp, R. J. Goldfarb, and W. J. Pickthorn. 1985. Lat about 60° to about 61°, long about 144° to 150°. Scale 1:250,000 (1 inch = about 4 miles). Sheet 40 by 57 inches.

MF-1645-E. ALASKA. Geochemical map showing distribution of chalcopyrite within the Chugach National Forest, Alaska, by R. J. Goldfarb, and R. B. Tripp. 1985. Lat about 60° to about 61°, long about 144° to 150°. Scale 1:250,000 (1 inch = about 4 miles). Sheet 40 by 57 inches.

MF-1647-A. COLORADO. Mineral resource potential maps of the Maroon Bells-Snowmass Wilderness and additions, Gunnison and Pitkin counties, Colorado, by V. L. Freeman, D. L. Campbell, and H. D. King, U.S. Geological Survey, and R. C. Weisner and C. L. Bieniewski, U.S. Bureau of Mines. 1985. Three sheets. Lat about 39° to about 39°15′, long 106°45′ to about 107°15′. Sheet 1:100,000 (1 inch = about 1.6 miles). Sheet 1, 28 by 38 inches; sheet 2, 28 by 38 inches; sheet 3, 28 by 38 inches. (Accompanied by 9-page text.)

MF-1647-B. COLORADO. Gravity and aeromagnetic maps of the Maroon Bells-Snowmass Wilderness and additions, Pitkin and Gunnison counties, Colorado, by D. L. Campbell. 1985. Lat about 39° to about 39°15′, long 106°45′ to about 107°15′ . Scale 1:100,000 (1 inch = about 1.6 miles). Sheet 40 by 57 inches.

MF-1651-A. CALIFORNIA. Mineral resource potential map of the Moses and Dennison Peak Roadless Areas, Tulare County, California, by R. J. Goldfarb, D. L. Leach, and M. G. Sawlan, U.S. Geological Survey, and D. A. Lipton, U.S. Bureau of Mines. 1985. Scale 1:48,000 (1 inch = 4,000 feet). Sheet 23 by 39 inches. (Accompanied by 5-page text.)

MF-1651-B. CALIFORNIA. Geochemical maps of the Moses and Dennison Peak Roadless Areas, Tulare County, California, by R. J. Goldfarb, D. L. Leach, J. A. Domenico, and S. M. Smaglik. 1984 (1985). Scale 1:48,000 (1 inch = 4,000 feet). Sheet 39 by 50 inches.

MF-1652-B. WASHINGTON. Aeromagnetic map of the Glacier Peak Wilderness and adjacent areas, Chelan, Skagit, and Snohomish counties, Washington, by V. J. Flanigan, and Mark Sherrard. 1985. Lat 47°45′ to 48°30′, long about 121°30′ to about 121°30′. Scale 1:100,000 (1 inch = about 1.6 miles). Sheet 37 by 55 inches.

MF-1655-B. CALIFORNIA. Mineral resource potential map of the roadless areas and the Santa Lucia Wilderness in the Los Padres National Forest, southwestern California, by V. A. Frizzell, Jr., and D. B. Smith, U.S. Geological Survey, and Lucia Kuizon and W. N. Hale, U.S. Bureau of Mines. 1985. Lat 34°51′ to 35°30′, long 118°30′ to 120°45′. Scale 1:250,000 (1 inch = about 4 miles). Sheet 35 by 49 inches. (Accompanied by 16-page text.)

MF-1656. SOUTH CAROLINA, GEORGIA. Interpretations from multichannel seismic-reflection profiles of the deep crust crossing South Carolina and Georgia from the Appalachian Mountains to the Atlantic Coast, by J. C. Behrendt. 1985. Three sheets. Sheet 1, 36 by 44 inches; sheet 2, 32 by 52 inches; sheet 3, 31 by 54 inches.

MF-1673. NEW MEXICO. Preliminary structure contour map on the base of the Cretaceous Dakota Sandstone in the San Juan basin and vicinity, New Mexico, by R. E. Thaden, and R. S. Zech. 1984 (1985). Lat about 34°45′ to 37°15′, long about 106° to 110°. Scale 1:500,000 (1 inch = about 8 miles). Sheet 29 by 51 inches. (Reprint.)

MF-1680. WASHINGTON. Geologic map of Quaternary deposits of the Pothole Quadrangle, Okanogan County, Washington, by J. P. Minard. 1985. Lat 48°22′30″ to 48°30′, long 119°22′30″ to 119°30′. Scale 1:24,000 (1 inch = 2,000 feet). Sheet 30 by 32 inches.

MF-1681. ARIZONA. Geologic map of the Growler Mountains, Pima and Maricopa counties, Arizona, by Floyd Gray, R. J. Miller, D. W. Peterson, D. J. May, R. M. Tosdal, and Katherine Kahle. 1985. Lat 32°10′ to about 32°35′, long 112°55′ to about 113°10′. Scale 1:62,500 (1 inch = about 1 mile). Sheet 33 by 39 inches.

MF-1684. MONTANA. Photogeologic and reconnaissance geologic map of the Lignite Creek Quadrangle, Custer County, Montana, by S. J. Luft, R. B. Colton, and G. P. Cormier. 1984 (1985). Lat 46°15′ to 46°22′30″, long 105°52′30″ to 106°. Scale 1:24,000 (1 inch = 2,000 feet). Sheet 25 by 26 inches.

MF-1692. WASHINGTON. Map showing depth to bedrock in the Seattle 30′ by 60′ Quadrangle, Washington, by J. C. Yount, G. R. Dembroff, and G. M. Barats. 1985. Lat 47°30′ to 48°, long 122° to 123°. Scale 1:100,000 (1 inch = about 1.6 miles). Sheet 40 by 41 inches.

MF-1699. Map showing recomputed hypocenters of earthquakes in the eastern and central United States and adjacent Canada, 1925-1980, by J. W. Dewey, and D. W. Gordon. 1984 (1985). Lat about 27° to about 48°, long about 66° to about 108°. Scale 1:2,500,000 (1 inch = about 40 miles). Sheet 43 by 54 inches. (Accompanied by 39-page text.) (Reprint.)

MF-1708. ALASKA. Map showing a vegetated dune field in central Alaska, by Florence Collins. 1985. Lat about 63°30′ to about 65°00′, long 149° to about 154°. Scale 1:250,000 (1 inch = about 4 miles). Sheet 43 by 46 inches. (Accompanied by 20-page text.)

MF-1709. CALIFORNIA. Geologic map of Homer Mountain and the southern Piute Range, southeastern California, by J. E. Spencer, and R. D. Turner. 1985. Scale 1:24,000 (1 inch = 2,000 feet). Sheet 33 by 50 inches.

MF-1710. Bathymetric map of Lydonia Canyon, U.S. Atlantic outer continental shelf, by Bradford Butman, and J. A. Moody. 1984. Two sheets. Lat 40°10′ to 40°40′, long about 67°30′ to 67°50′. Scale 1:50,000 (1 inch = about 4,200 feet). Sheet 1, 33 by 50 inches; sheet 2, 27 by 50 inches.

MF-1711. CALIFORNIA. Map showing ground failures from the Greenville/Mount Diablo earthquake sequence of January 1980, Northern California, by R. C. Wilson, G. F. Wieczorek, D. K. Keefer, E. L. Harp, and N. E. Tannaci. 1985. Lat 37°30′ to 38°, long 121°30′ to 121°52′30″. Scale 1:62,500 (1 inch = about 1 mile). Sheet 40 by 42 inches.

MF-1712. Estimated maximum regional seismic intensities associated with an ensemble of great earthquakes that might occur along the New Madrid seismic zone, east-central United States, by S. T. Algermissen, and M. G. Hopper. 1984 (1985). Lat about 30° to about 40°, long about 80° to about 95°. Sheet 18 by 26 inches.

MF-1715. IDAHO. Geologic map and cross sections of the Caribou Mountain area, southeastern Idaho, by J. R. Huntsman, and L. B. Platt. 1985. Lat 43° to about 43°10′, long 111°15′ to about 111°25′. Scale 1:48,000 (1 inch = 4,000 feet). Sheet 24 by 33 inches.

MF-1717. UTAH. Geologic map of the Agency Draw NW Quadrangle, Uintah County, Utah, by W. B. Cashion. 1984. Lat 39°37′30″ to 39°45′, long 109°37′30″ to 109°45′. Scale 1:24,000 (1 inch = 2,000 feet). Sheet 32 by 33 inches. (Reprint.)

MF-1722. ALASKA. Map and selected seismic profiles of the seaward extension of the Fairweather Fault, eastern Gulf of Alaska, by P. R. Carlson, George Plafker, and T. R. Bruns. 1985. Two sheets. Sheet 1, lat about 56° to 58°30′, long about 134°30′ to 137°30′. Sheet 1, 26 by 32 inches; sheet 2, 31 by 47 inches.

MF-1723. MONTANA. Photogeologic and reconnaissance geologic map of the Nichols Quadrangle, Rosebud County, Montana, by R. B. Colton, J. L. Klockenbrink, and M. A. Grout, U.S. Geological Survey, and E. L. Heffern, U.S. Bureau of Land Management. 1984 (1985). Lat 46°15′ to 46°22′30″, long 106°45′ to 106°52′30″. Scale 1:24,000 (1 inch = 2,000 feet). Sheet 23 by 28 inches.

MF-1724. MONTANA. Photogeologic and reconnaissance geologic map of the Finch Quadrangle, Rosebud County, Montana, by R. B. Colton, J. L. Klockenbrink, and M. A. Grout, U.S. Geological Survey and E. L. Heffern, U.S. Bureau of Land Management. 1984 (1985). Lat 46°15′ to 46°22′30″, long 106°52′30″ to 107°. Scale 1:24,000 (1 inch = 2,000 feet). Sheet 23 by 27 inches.

MF-1725. MONTANA. Photogeologic and reconnaissance geologic map of the Forsyth Quadrangle, Rosebud County, Montana, by R. B. Colton, J. L. Klockenbrink, and M. A. Grout, U.S. Geological Survey, and E. L. Heffern, U.S. Bureau of Land Management. 1984 (1985). Lat 46°15′ to 46°22′30″, long 106°37′30″ to 106°45′. Scale 1:24,000 (1 inch = 2,000 feet). Sheet 23 by 27 inches.

MF-1726. NEW MEXICO. Geologic map of the Togeye Lake Quadrangle, Cibola and McKinley counties, New Mexico, by W. J. Mapel. 1985. Lat 35° to 35°07'30", long 108°22'30" to 108°30'. Scale 1:24,000 (1 inch = 2,000 feet). Sheet 25 by 27 inches.

MF-1727. NEW MEXICO. Geologic map of the Goat Hill Quadrangle, Cibola County, New Mexico, by W. J. Mapel, and W. L. Yesberger. 1985. Lat 34°52'30" to 35°, long 108°15' to 108°22'30". Scale 1:24,000 (1 inch = 2,000 feet). Sheet 25 by 27 inches.

MF-1733-A. CALIFORNIA. Geologic map of the Inyo Mountains Wilderness Study Area, Inyo County, California, by J. E. Conrad, and E. H. McKee. 1985. Lat 36°30' to about 36°50', long about 117°45' to 118°. Scale 1:62,500 (1 inch = 1 mile). Sheet 36 by 36 inches.

MF-1734. CALIFORNIA. Geologic map of the Olancha Quadrangle, southern Sierra Nevada, California, by E. A. du Bray, and J. G. Moore. 1985. Lat 36°15' to 36°30', long 118° to 118°15'. Scale 1:62,500 (1 inch = about 1 mile). Sheet 24 by 36 inches.

MF-1736. CALIFORNIA. Bedrock geologic map of the Iron Mountains Quadrangle, San Bernardino and Riverside counties, California, by D. M. Miller, and K. A. Howard. 1985. Lat 34° to 34°15', long 115° to 115°15'. Scale 1:62,500 (1 inch = about 1 mile). Sheet 26 by 37 inches.

MF-1738. COLORADO. Map showing gravel-bearing surficial deposits and basaltic rocks near Trinidad, Las Animas County, Colorado, by G. R. Scott. 1985. Lat about 37° to about 37°15', long about 104°07'30" to about 104°30'. Scale 1:50,000 (1 inch = about 4,200 feet). Sheet 34 by 36 inches.

MF-1739. WASHINGTON. Geologic map of the Arlington East Quadrangle, Snohomish County, Washington, by J. P. Minard. 1985. Lat 48°07'30" to 48°15', long 122° to 122°07'30". Scale 1:24,000 (1 inch = 2,000 feet). Sheet 29 by 34 inches.

MF-1740. WASHINGTON. Geologic map of the Arlington West 7.5 minute Quadrangle, Snohomish County, Washington, by J. P. Minard. 1985. Lat 48°07'30" to 48°15', long 122°07'30" to 122°15'. Scale 1:24,000 (1 inch = 2,000 feet). Sheet 29 by 34 inches.

MF-1741. WASHINGTON. Geologic map of the Stanwood Quadrangle, Snohomish County, Washington, by J. P. Minard. 1985. Lat 48°07'30" to 48°15', long 122°15' to 122°22'30". Scale 1:24,000 (1 inch = 2,000 feet). Sheet 31 by 36 inches.

MF-1742. WASHINGTON. Geologic map of the Lake Stevens Quadrangle, Snohomish County, Washington, by J. P. Minard. 1985. Lat 48° to 48°07'30", long 122° to 122°07'30". Scale 1:24,000 (1 inch = 2,000 feet). Sheet 29 by 33 inches.

MF-1743. WASHINGTON. Geologic map of the Marysville Quadrangle, Snohomish County, Washington, by J. P. Minard. 1985. Lat 48° to 48°07'30", long 122°07'30" to 122°15'. Scale 1:24,000 (1 inch = 2,000 feet). Sheet 30 by 31 inches. (Supersedes Open-file report 80-464.)

MF-1744. WASHINGTON. Geologic map of the Tulalip Quadrangle, Island and Snohomish counties, Washington, by J. P. Minard. 1985. Lat 48° to 48°07'30", long 122°15' to 122°22'30". Scale 1:24,000 (1 inch = 2,000 feet). Sheet 29 by 33 inches.

MF-1745. WASHINGTON. Geologic map of the Snohomish Quadrangle, Snohomish County, Washington, by J. P. Minard. 1985. Lat 47°52'30" to 48°, long 122° to 122°07'30". Scale 1:24,000 (1 inch = 2,000 feet). Sheet 29 by 31 inches.

MF-1746. WASHINGTON. Geologic map of the Maltby Quadrangle, Snohomish and King counties, Washington, by J. P. Minard. 1985. Lat 47°45' to 47°52'30", long 122° to 122°07'30". Scale 1:24,000 (1 inch = 2,000 feet). Sheet 30 by 30 inches.

MF-1747. WASHINGTON, Geologic map of the Bothell Quadrangle, Snohomish and King counties, Washington, by J. P. Minard. 1985. Lat 47°45' to 47°52'30", long 122°07'30" to 122°15'. Scale 1:24,000 (1 inch = 2,000 feet). Sheet 29 by 31 inches. (Supersedes Open-file report 81-106.)

MF-1748. WASHINGTON. Geologic map of the Everett 7.5 minute Quadrangle, Snohomish County, Washington, by J. P. Minard. 1985. Lat 47°52'30" to 48°, long 122°07'30" to 122°15'. Scale 1:24,000 (1 inch = 2,000 feet). Sheet 30 by 33 inches.

MF-1749. ALASKA. Geologic map of northern and central parts of Unalakleet Quadrangle, Alaska, by W. W. Patton, Jr., and E. J. Moll. 1985. Lat 63° to 64°, long 159° to 162°. Scale 1:250,000 (1 inch = about 4 miles). Sheet 33 by 46 inches.

MF-1750. NEW MEXICO. Geologic map of the Fence Lake SW Quadrangle, Cibola and Catron counties, New Mexico, by E. R. Landis, M. W. McLellan, E. J. McKay, M. D. Carter, and A. L. Medlin. 1985. Lat 34°30' to 34°37'30", long 108°37'30" to 108°45'. Scale 1:24,000 (1 inch = 2,000 feet). Scale 29 by 43 inches.

MF-1751. MAINE. Maps showing sea-floor topography, depth to bedrock, and sediment thickness, Penobscot Bay, Maine, by H. J. Knebel, and K. M. Scanlon. 1985. Two sheets. Sheet 1, lat 44° to about 44°20', long about 68°40' to 69°10'; sheet 2, lat 44° to about 44°20', long about 68°40' to 69°10'. Scale 1:100,000 (1 inch = about 1.6 miles). Sheet 1, 38 by 46 inches; sheet 2, 28 by 38 inches.

MF-1754-A. UTAH. Mineral resource potential map of the Dirty Devil, French Spring-Happy Canyon, and Horseshoe Canyon Wilderness Study Areas, Wayne and Garfield counties, Utah, by R. F. Dubiel, M. J. Larson, Fred Peterson, and W. R. Willson, U.S. Geological Survey, and R. A. Schreiner, U.S. Bureau of Mines. 1985. Lat about 38°10' to 38°30', long about 110°10' to about 110°35'. Scale 1:50,000 (1 inch = about 4,200 feet). Sheet 38 by 47 inches. (Accompanied by 8-page text.)

MF-1754-B. UTAH. Geologic map of the Dirty Devil, French Spring-Happy Canyon, and Horseshoe Canyon Wilderness Study Areas, Wayne and Garfield counties, Utah, by R. F. Dubiel, C. S. Bromfield, M. J. Larson, C. G. Patterson, and Fred Peterson. 1985. Lat about 38°10' to 38°30', long about 110°10' to about 110°35'. Scale 1:50,000 (1 inch = about 4,200 feet). Sheet 36 by 55 inches.

MF-1755-A. UTAH. Mineral resource potential maps of the Fiddler Butte Wilderness Study Area and the Fremont Gorge Study Area, Garfield and Wayne counties, Utah, by M. J. Larson, R. F. Dubiel, Fred Peterson, and W. R. Willson, U.S. Geological Survey, and J. P. Briggs, U.S. Bureau of Mines. 1985. Lat about 38° to about 38°05′, long 110°20′ to about 110°30′. Scale 1:50,000 (1 inch = about 4,200 feet). Sheet 29 by 35 inches. (Accompanied by 8-page text.)

MF-1755-B. UTAH. Geologic maps of the Fiddler Butte Wilderness Study Area and the Fremont Gorge Study Area, Garfield and Wayne counties, Utah, by M. J. Larson, C. S. Bromfield, R. F. Dubiel, P. P. Orkild, C. G. Patterson, and Fred Peterson. 1985. Lat about 38° to about 38°05′, long about 110°20′ to about 110°30′. Scale 1:50,000 (1 inch = about 4,200 feet). Sheet 29 by 39 inches.

MF-1756-B. UTAH. Geologic map of the Mt. Ellen-Blue Hills Wilderness Study Area and Bull Mountain Study Area, Garfield and Wayne counties, Utah, by C. G. Patterson, C. S. Bromfield, R. F. Dubiel, J. E. Faulds, M. J. Larson, P. G. Milde, and Fred Peterson. 1985. Lat about 38°05′ to about 38°20′, long 110°35′ to about 111°. Scale 1:50,000 (1 inch = about 4,200 feet). Sheet 32 by 45 inches.

MF-1757. NEW MEXICO. Geologic map of the Nicoll Lake Quadrangle, Cibola and McKinley counties, New Mexico, by W. J. Mapel. 1985. Lat 34°52′30° to 35°, long 108°22′30″ to 108°30′. Scale 1:24,000 (1 inch = 2,000 feet). Sheet 25 by 27 inches.

MF-1758. NEW MEXICO. Geologic map of the Red Lake Mission Quadrangle, Cibola County, New Mexico, by W. J. Mapel, and W. L. Yesberger. 1985. Lat 34°45′ to 34°52′30″, long 108°22′30″ to 108°30′. Scale 1:24,000 (1 inch = 2,000 feet). Sheet 27 by 29 inches.

MF-1759. NEW MEXICO. Geologic map of surficial deposits and basaltic rocks near the Rio Chama, Rio Arriba County, New Mexico, by G. R. Scott, and R. F. Marvin. 1985. Lat about 36°37′30″ to 37°, long about 106°30′ to about 106°45′. Scale 1:50,000 (1 inch = about 4,200 feet). Sheet 30 by 36 inches.

MF-1761. CALIFORNIA. Map showing Tertiary stratigraphy and structure of the northern San Joaquin Valley, California, by J. A. Bartow. 1985. Two sheets. Lat about 37° to about 38°, long about 120° to about 121°. Scale 1:250,000 (1 inch = about 4 miles). Sheet 1, 36 by 56 inches; sheet 2, 40 by 49 inches.

MF-1762. COLORADO. Reconnaissance geologic map of the Cooper Mountain Quadrangle, Fremont County, Colorado, by R. A. Wobus, R. B. Chase, G. R. Scott, and R. B. Taylor. 1985. Lat 38°30′ to 38°37′30″, long 105°07′30″ to 105°15′. Scale 1:24,000 (1 inch = about 2,000 feet). Sheet 29 by 30 inches.

MF-1763. MONTANA. Photogeologic and reconnaissance geologic map of the Loaf of Bread Butte Quadrangle, Custer County, Montana, by S. J. Luft, E. L. Heffern, and P. L. Cepulis. 1985. Lat 46°07′30″ to 46°15′, long about 105°22′30″ to 105°30′. Scale 1:24,000 (1 inch = 2,000 feet). Sheet 24 by 27 inches.

MF-1764. COLORADO. Reconnaissance geologic map of the Phantom Canyon Quadrangle, Fremont County, Colorado, by R. A. Wobus, R. B. Chase, G. R. Scott, and R. B. Taylor. 1985. Lat 38°30′ to 38°37′30″, long 105° to 105°07′30″. Scale 1:24,000 (1 inch = 2,000 feet). Sheet 27 by 29 inches.

MF-1765. NORTH DAKOTA. Stratigraphic cross sections and correlation of lignites in the Sentinel Butte Member and upper part of the Tongue River Member of the Fort Union Formation between Amidon and Fryburg, North Dakota, by J. S. Hinds. 1985. Sheet 41 by 57 inches.

MF-1766. NORTH DAKOTA. Stratigraphic cross section and coal bed correlations of uppermost Cretaceous and Paleocene rocks between Painted Canyon and Davis Buttes, North Dakota, by J. S. Hinds. 1985. Sheet 41 by 57 inches.

MF-1767. MONTANA. Photogeologic and reconnaissance geologic map of the Mizpah Quadrangle, Custer County, Montana, by S. J. Luft, E. L. Heffern, and P. L. Cepulis. 1985. Lat 46°07′30″ to 46°15′, long 105°15′ to 105°22′30″. Scale 1:24,000 (1 inch = 2,000 feet). Sheet 23 by 27 inches.

MF-1768. MONTANA. Photogeologic and reconnaissance geologic map of the Tepee Butte NE Quadrangle, Custer County, Montana, by S. J. Luft. 1985. Lat 46°07′30″ to 46°15′, long 105° to 105°07′30″. Scale 1:24,000 (1 inch = 2,000 feet). Sheet 24 by 27 inches.

MF-1769. WYOMING. Stratigraphic cross section showing depositional environments of Upper Cretaceous and Paleocene coal-bearing rocks in the Kappes Canyon Quadrangle, Sweetwater County, Wyoming, by M. A. Kirschbaum. 1985. Sheet 25 by 37 inches.

MF-1771. WASHINGTON. Physiographic diagrams of the Mount St. Helens, Washington showing changes in its summit crater, 1983, by T. R. Alpha, and Bobbie Myers. 1985. Scale 1:24,000 (1 inch = 2,000 feet). Sheet 33 by 40 inches.

MF-1772. COLORADO. Preliminary geologic map of the Douglas Pass Quadrangle, Garfield County, Colorado, by V. F. Nuccio. 1985. Lat 39°30′ to 39°37′30″, long 108°45′ to 108°52′ 30″. Scale 1:24,000 (1 inch = 2,000 feet). Sheet 30 by 39 inches.

MF-1773. IDAHO. Complete Bouguer gravity anomaly map of Idaho, compiled by Viki Bankey, Michael Webring, D. R. Mabey, and M. D. Kleinkopf, U.S. Geological Survey, and E. H. Bennett, Idaho Geological Survey. 1985. Lat about 42° to about 49°, long about 111° to about 117°. Scale 1:500,000 (1 inch = about 8 miles). Sheet 42 by 66 inches.

MF-1774. UTAH, COLORADO. Preliminary geologic map of the Dragon Quadrangle, Uintah County, Utah, and Rio Blanco County, Colorado, by R. W. Scott, Jr., and M. P. Pantea. 1985. Lat 39°45′ to 39°52′30″, long 109° to 109°07′30″. Scale 1:24,000 (1 inch = 2,000 feet). Sheet 29 by 30 inches.

MF-1777. COLORADO. Preliminary geologic map of the Winter Flats Quadrangle, Garfield and Mesa counties, Colorado, by R. C. Johnson. 1985. Lat 39°15′ to 39°22′30″, long 108°22′ 30″ to 108°30′. Scale 1:24,000 (1 inch = 2,000 feet). Sheet 32 by 39 inches.

MF-1778. Oblique map of Rabaul, Papua New Guinea, by T. R. Alpha, and H. G. Greene. 1985. Scale 1:35,000 (1 inch = about 3,000 feet). Sheet 29 by 32 inches.

MF-1779. WYOMING. Stratigraphic framework of the upper Fort Union Formation, Ta Hills, western Powder River basin, Wyoming, by J. N. Weaver, and R. M. Flores. 1985. Lat about 44°05′ to about 44°10′, long 106°37′30″ to about 106°40′. Scale 1:24,000 (1 inch = 2,000 feet). Sheet 31 by 43 inches.

MF-1780-A. CALIFORNIA. Mineral resources and resource potential map of the South Providence Mountains Wilderness Study Area, San Bernardino County, California, by D. M. Miller, L. L. Glick, Richard Goldfarb, R. W. Simpson, D. B. Hoover, D. E. Detra, J. C. Dohrenwend, U.S. Geological Survey, and S. R. Munts, U.S. Bureau of Mines. 1985. Lat 34°45′ to about 34°55′, long 115°30′ to about 115°40′. Scale 1:62,500 (1 inch = about 1 mile). Sheet 22 by 31 inches. (Accompanied by 29-page text.)

MF-1782. NEW MEXICO. Geologic map of the Bear Mountain Quadrangle, Grant County, New Mexico, by W. E. Brooks, and J. C. Ratté. 1985. Lat 33° to 33°07′30″, long 108°45′ to 108°52′30″. Scale 1:24,000 (1 inch = 2,000 feet). Sheet 27 by 27 inches.

MF-1783. ARIZONA. Reconnaissance geologic map of part of McLendon Volcano, Yavapai County, Arizona, by W. E. Brooks. 1985. Lat about 34°12′30″ to 34°22′30″, long about 113°05′30″ to 113°15′. Scale 1:24,000 (1 inch = 2,000 feet). Sheet 32 by 35 inches.

MF-1784. COLORADO. Preliminary geologic map of the Molina Quadrangle, Mesa County, Colorado, by J. R. Donnell, W. E. Yeend, and M. C. Smith. 1985. Lat 39°07′30″ to 39°15′, long 108° to 108°07′30″. Scale 1:24,000 (1 inch = 2,000 feet). Sheet 29 by 37 inches.

MF-1785. WYOMING. Electric-log correlations of the Upper Cretaceous Rock Springs and Blair formations on the east and west flanks of the Rock Springs Uplift, Wyoming, by H. W. Roehler. 1985. Sheet 26 by 41 inches.

MF-1786. COLORADO. Geologic map of Electric Peak and southwestern part of Beckwith Mountain quadrangles, Custer and Saguache counties, Colorado, by D. A. Lindsey, S. J. Soulliere, and Katrin Hafner. 1985. Lat 38°07′30″ to 38°15′, long about 105°35′ to 105°45′. Scale 1:24,000 (1 inch = 2,000 feet). Sheet 34 by 48 inches.

MF-1787. COLORADO. Geologic map of Rito Alto Peak and northeastern part of Mirage quadrangles, Custer and Saguache counties, Colorado, by D. A. Lindsey, S. J. Souilliere, Katrin Hafner, and R. J. Flores. 1985. Lat 38° to 38°07′30″, long 105°37′30″ to about 105°47′30″. Scale 1:24,000 (1 inch = 2,000 feet). Sheet 30 by 45 inches.

MF-1788. NEW MEXICO. Preliminary geologic map of the Pretty Rock Quadrangle, San Juan County, New Mexico, by J. D. Strobell, Jr., R. B. O'Sullivan, J. W. Mytton, and M. F. Erpenbeck. 1985. Lat 36°07′30″ to 36°15′, long 108° to 108°07′30″. Scale 1:24,000 (1 inch = 2,000 feet). Sheet 27 by 44 inches.

MF-1789. COLORADO. Preliminary geologic map of the west half of the Thirteenmile Creek Quadrangle, Rio Blanco and Garfield counties, Colorado, by R. B. O'Sullivan, and M. C. Smith. 1985. Lat 39°45′ to 39°57′30″, long about 107°55′ to 108°. Scale 1:24,000 (1 inch = 2,000 feet). Sheet 30 by 36 inches.

MF-1791. NEVADA, UTAH. Map of fault scarps formed in unconsolidated sediments, Elko 1° by 2° Quadrangle, Nevada and Utah, by T. P. Barnhard. 1985. Lat 40° to 41°, long 114° to 116°. Scale 1:250,000 (1 inch = about 4 miles). Sheet 26 by 54 inches.

MF-1792-A. COLORADO. Geologic map of the Mount Massive Wilderness, Lake County, Colorado, by R. E. Van Loenen. 1985. Lat 39°04′45″ to 39°17′30″, long 106°22′30″ to 106°37′30″. Scale 1:50,000 (1 inch = about 4,200 feet). Sheet 22 by 30 inches.

MF-1796. MONTANA. Maps and sections showing geology and coal resources of the northeastern part of the Crow Indian Reservation, Big Horn County, Montana, by L. N. Robinson, and B. S. Van Gosen. 1985. Three sheets. Sheet 1, lat about 45°37′30″ to about 45°45′, long 107° to about 107°07′30″. Scale 1:24,000 (1 inch = 2,000 feet). Sheet 1, 38 by 55 inches; sheet 2, 36 by 47 inches; sheet 3, 31 by 37 inches.

MF-1798. WYOMING. Seismicity map of the State of Wyoming, by B. G. Reagor, C. W. Stover, and S. T. Algermissen. 1985. Lat about 41° to about 45°, long about 104° to about 111°. Scale 1:1,000,000 (1 inch = about 16 miles). Sheet 40 by 54 inches.

MF-1799. Reconnaissance geologic map of part of the San Isidro Quadrangle, Baja California Sur, Mexico, by Hugh McLean, B. P. Hansback, and J. H. Knapp. 1985. Lat about 26°15′ to 27°, long 112° to about 113°. Scale 1:125,000 (1 inch = about 2 miles). Sheet 36 by 55 inches.

MF-1800. COLORADO, UTAH. Geologic map showing coal beds in the Dakota Sandstone, Harley Dome Quadrangle and parts of the Bitter Creek Well, Westwater 4 SE, and Westwater 4 SW quadrangles, Colorado and Utah, by M. S. Ellis, and J. T. Hopeck. 1985. Lat 39° to 39°15′, long 109° to 109°15′. Scale 1:50,000 (1 inch = about 4,200 feet). Sheet 29 by 42 inches.

MF-1806-A. MONTANA. Geologic map of the eastern Pioneer Mountains, Beaverhead County, Montana, by R. C. Pearson, and E-an Zen. 1985. Lat 45°17′30″ to 45°42′30″, long 112°50′ to 113°07′30″. Scale 1:50,000 (1 inch = about 4,200 feet). Sheet 37 by 46 inches.

MF-1808. CALIFORNIA. Reconnaissance geologic map of the Dubakella Mountain Quadrangle, Trinity, Shasta, and Tehama counties, California, by W. P. Irwin, J. D. Yule, B. L. Court, A. W. Snoke, L. A. Stern, and W. B. Copeland. 1985. Lat 40°15′ to 40°30′, long 123° to 123°15′. Scale 1:62,500 (1 inch = about 1 mile). Sheet 28 by 31 inches.

MF-1809. CALIFORNIA. Reconnaissance geologic map of the Hyampom Quadrangle, Trinity County, California, by W. P. Irwin. 1985. Lat 40°30′ to 40°45′, long 123°15′ to 123°30′. Scale 1:62,500 (1 inch = about 1 mile). Sheet 28 by 32 inches.

MF-1812. IDAHO. Geologic map of the Hawkins Quadrangle, Bannock County, Idaho, by L. B. Platt. 1985. Lat 42°30′ to 42°37′30″, long 112°15′ to 112°22′30″. Scale 1:24,000 (1 inch = 2,000 feet). Sheet 27 by 39 inches.

MF-1813. COLORADO. Preliminary geologic map of the Baxter Pass Quadrangle, Garfield County, Colorado, by R. C. Johnson. 1985. Lat 39°30′ to 39°37′30″, long 108°52′30″ to 109°. Scale 1:62,500 (1 inch = about 1 mile). Sheet 37 by 52 inches.

MF-1814. NEW MEXICO. Geologic map of the Chili Quadrangle, Rio Arriba County, New Mexico, by D. P. Dethier, and Kim Manley. 1985. Lat 36° to 36°07′30″, long 106°07′30″ to 106°15′. Scale 1:24,000 (1 inch = 2,000 feet). Sheet 27 by 35 inches.

MF-1816. COLORADO. Preliminary geologic map of the Rio Blanco Quadrangle, Rio Blanco and Garfield counties, Colorado, by R. B. O'Sullivan. 1985. Lat 39°37′30″ to 39°45′, long 107°52′30″ to 108°. Scale 1:24,000 (1 inch = 2,000 feet). Sheet 34 by 44 inches.

MF-1819. MONTANA. Seismicity map of the State of Montana, by B. G. Reagor, C. W. Stover, and S. T. Algermissen. 1985. Two sheets. Sheet 1, lat about 45° to about 49°, long about 104° to about 116°. Scale 1:1,000,000 (1 inch = about 16 miles). Sheet 1, 25 by 38 inches; sheet 2, 37 by 53 inches.

MF-1830-A. MISSOURI. Summary geochemical generalized geologic maps of the Springfield 1° by 2° Quadrangle and adjacent area, Missouri, by R. L. Erickson, M. S. Erickson, E. L. Mosier, and B. Chazin. 1985. Two sheets. Sheet 1, lat about 37° to about 38°, long about 92° to about 94°; sheet 2, lat about 37° to about 38°, long about 92° to about 94°. Sheet 1, 41 by 53 inches; sheet 2, 41 by 53 inches. (Accompanied by 53-page text.)

MINERAL INVESTIGATIONS RESOURCES 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-0072. IDAHO. Maps showing selected geology and phosphate resources of the Stewart Flat Quadrangle, Caribou County, Idaho, by P. D. Derkey, Ken Paul, Pamela Palmer, Mahasti Fakourbayat, N. J. Wotruba, Idaho Bureau of Mines and Geology, and David Hovland, U.S. Bureau of Land Management. 1984 (1985). Three sheets. Lat 42°37′30″ to 42°45′, long 111°07′30″ to 111°15′. Scale 1:24,000 (1 inch = 2,000 feet). Sheet 1, 26 by 34 inches; sheet 2, 26 by 32 inches; sheet 3, 26 by 32 inches. (Accompanied by 6-page text.)

MR-0074. IDAHO. Maps showing selected geology and phosphate resources of the Harrington Peak Quadrangle, Bear Lake and Caribou counties, Idaho, by P. D. Derkey, Bea Johnson, and Pamela Palmer, Idaho Bureau of Mines and Geology, and R. D. Hovland, Bureau of Land Management. 1985. Three sheets. Lat 42°30′ to 42°37′30″, long 111°15′ to 111°22′30″. Scale 1:24,000 (1 inch = 2,000 feet). Sheet 1, 26 by 33 inches; sheet 2, 26 by 31 inches; sheet 3, 26 by 31 inches. (Accompanied by 6-page text.)

MR-0075. IDAHO. Maps showing selected geology and phosphate resources of the Snowdrift Mountain Quadrangle, Bear Lake and Caribou counties, Idaho, by P. D. Derkey, Ken Paul, Bea Johnston, Pamela Palmer, Alexandra Zemanek, Mahasti Fakourbayat, Idaho Bureau of Mines and Geology, and R. D. Hovland, Bureau of Land Management. 1985. Three sheets. Lat 42°30′ to 42°37′30″, long 111°07′30″ to 111°15′. Scale 1:24,000 (1 inch = 2,000 feet). Sheet 1, 26 by 34 inches; sheet 2, 26 by 31 inches; sheet 3, 26 by 31 inches. (Accompanied by 6-page text.)

MR-0076. IDAHO. Maps showing selected geology and phosphate resources of the Meade Peak Quadrangle, Bear Lake and Caribou counties, Idaho, by P. D. Derkey, and Pamela Palmer. 1985. Three sheets. Sheet 1, lat 42°22′30″ to 42°30′, long 111°07′30″ to 111°15′; sheet 2, lat 42°22′30″ to 42°30′, long 111°07′30″ to 111°15′; sheet 3, lat 42°22′30″ to 42°30′, long 111°07′30″ to 111°15′. Scale 1:24,000 (1 inch = 2,000 feet). Sheet 1, 26 by 34 inches; sheet 2, 26 by 32 inches; sheet 3, 26 by 32 inches. (Accompanied by 6-page text.)

MR-0080. IDAHO. Map showing selected geology and phosphate resources of the Johnson Creek Quadrangle, Caribou County, Idaho, by Pamela Palmer, Warren Barrash, P. D. Derkey, N. J. Wotruba, Mahasti Fakourbayat, Idaho Bureau of Mines and Geology, and S. T. Miller, U.S. Bureau of Land Management. 1985. Three sheets. Sheet 1, lat 42°37′30″ to 42°45′, long 111°22′30″ to 111°30′; Sheet 2, lat 42°37′30″ to 42°45′, long 111°22′30″ to 111°30′; Sheet 3, lat 42°37′30″ to 42°45′, long 111°22′30″ to 111°30′. Scale 1:24,000 (1 inch = 2,000 feet). Sheet 1, 25 by 33 inches; sheet 2, 25 by 31 inches; sheet 3, 25 by 31 inches. (Accompanied by 6-page text.)

MR-0088. CALIFORNIA. Preliminary mineral resource assessment map of California, by J. P. Albers, and L. A. Fraticelli. 1984 (1985). Lat about 33° to about 42°, long about 115° to about 125°. Scale 1:1,000,000 (1 inch = about 16 miles). Sheet 41 by 45 inches.

MR-0090. ALASKA. Map showing occurrences of copper minerals in Alaska, compiled by E. H. Cobb. 1984 (1985). Lat about 54° to about 70°, long about 114° to about 180°. Scale 1:2,500,000 (1 inch = about 40 miles). Sheet 37 by 48 inches. (Accompanied by 19-page text.)

MR-0091. ALASKA. Map showing occurrences of lead minerals in Alaska, compiled by E. H. Cobb. 1984 (1985). Lat about 54° to about 70°, long about 114° to about 178°. Scale 1:2,500,000 (1 inch = about 40 miles). Sheet 37 by 48 inches. (Accompanied by 11-page text.)

MR-0092. Bentonite and fuller's earth resources of the United States, by J. W. Hosterman. 1985. Lat about 19° to about 48°, long about 64° to about 128°. Scale 1:5,000,000 (1 inch = about 80 miles). Sheet 30 by 52 inches.

GEOLOGIC MAP INDEXES

NORTH DAKOTA. Geologic map index of North Dakota, compiled by W. L. McIntosh, and M. F. Eister. 1977. Free on application. (Reprint.)

STATE GEOLOGIC MAPS

WYOMING. Geologic map of Wyoming, compiled by J. D. Love, and A. C. Christiansen. 1985. Three sheets. Sheet 1, lat 41° to 45°, long 104° to 111°. Scale 1:500,000 (1 inch = about 8 miles). Sheet 1 (map), 43 by 50 inches; sheet 2 (explanation), 42 by 58 inches; sheet 3 (sources of data and references cited), 32 by 40 inches.

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-0197. Hydrogeologic map of Puerto Rico and adjacent islands, by R. P. Briggs, and J. P. Akers. 1965. Lat about 18° to about 18°30', long about 65°15' to about 67°45'. Scale 1:240,000 (1 inch = about 3.8 miles). Sheet 36 by 55 inches. (Reprint.)

HA-0662. MASSACHUSETTS. Hydrology and water resources of tributary basins to the Merrimack River from Salmon Brook to the Concord River, Massachusetts, by R. A. Brackley, and B. P. Hansen. 1985. Two sheets. Sheet 2, lat about 42°15' to about 42°37'30", long about 71°22'30" to about 71°37'30". Scale 1:48,000 (1 inch = 4,000 feet). Sheet 1, 42 by 58 inches; sheet 2, 42 by 58 inches. (Supersedes Open-file report 82-441.)

HA-0672. FLORIDA. Forest map and hydrologic conditions, Apalachicola River flood plain, Florida, by H. M. Leitman. 1984 (1985). Sheet 39 by 58 inches.

HA-0674. IDAHO. Hydrologic conditions at the Idaho National Engineering Laboratory, Idaho; 1979-1981 update, by B. D. Lewis, and R. G. Jensen. 1985. Two sheets. Sheet 1, 35 by 57 inches; sheet 2, 35 by 43 inches. (Supersedes Open-file report 84-230.)

HA-0679. NEW MEXICO. Geohydrology of the High Plains Aquifer in southeastern New Mexico, by D. L. Hart, Jr., and D. P. McAda. 1985. Scales 1:500,000 (1 inch = about 8 miles) and 1:1,000,000 (1 inch = about 16 miles). Sheet 34 by 43 inches.

HA-0683. COLORADO, NEW MEXICO. Potentiometric surface, 1980, and water-level changes, 1969-80, in the unconfined valley-fill aquifers of the San Luis Basin, Colorado and New Mexico, by T. M. Crouch. 1985. Two sheets. Lat about 36°30' to about 38°, long about 105°30' to about 106°30'. Scale 1:250,000 (1 inch = about 4 miles). Each sheet 30 by 45 inches.

HA-0684. UTAH. Hydrologic reconnaissance of the Kolob, Alton, and Kaiparowits Plateau coal fields, south-central Utah, by G. G. Plantz. 1985. Two sheets. Lat about 37°15' to about 37°45', long about 111° to about 113°. Scale 1:250,000 (1 inch = about 4 miles). Sheet 1, 34 by 42 inches; sheet 2, 34 by 40 inches. (Supersedes Open-file report 84-71.)

HA-0685. COLORADO. Potential well yields from the Ogallala Aquifer in the northern High Plains of Colorado, by J. B. Lindner-Lunsford, and R. G. Borman. 1985. Scale 1:1,000,000 (1 inch = about 16 miles). Sheet 33 by 41 inches.

HA-0686. ALASKA. Water resources of the Copper River basin, Alaska, by P. A. Emery, S. H. Jones, and R. L. Glass. 1985. Three sheets. Lat 60°30' to 63°15', long 140°30' to 147°45'. Scale 1:1,000,000 (1 inch = about 16 miles). Sheet 1, 29 by 40 inches; sheet 2, 29 by 40 inches; sheet 3, 29 by 31 inches.

HYDROLOGIC UNIT MAPS

FLORIDA. Hydrologic unit map. 1974. State of Florida. Lat about 25° to about 31°, long about 80° to about 85°. Scale 1:500,000 (1 inch = about 8 miles). Sheet 45 by 65 inches. (Reprint.)

NEW JERSEY. Hydrologic unit map. 1974. State of New Jersey. Lat about 39° to about 41°, long about 74° to about 76°. Scale 1:500,000 (1 inch = about 8 miles). Sheet 26 by 28 inches. (Reprint.)

VIRGINIA. Hydrologic unit map. 1974. State of Virginia. Lat about 37° to about 39°, long about 76° to about 83°. Scale 1:500,000 (1 inch = about 8 miles). Sheet 32 by 63 inches. (Reprint.)

SPECIAL MAPS

Surface-water and related-land resources development in the United States and Puerto Rico, compiled by K. J. Hitt from indicated source material, 1981-1983. 1984 (1985). Lat about 23° to about 48°, long about 64° to about 128°. Scale 1:3,168,000 (1 inch = 50 miles). Sheet 41 by 64 inches.

World seismicity map, 1974, compiled by A. C. Tarr. 1974. Lat 70°S to 84°N, long 65°E to 105°W. Sheet 36 by 48 inches. (Reprint.)

OUTSIDE PUBLICATIONS

ARTICLES AND REPORTS

Articles by Geological Survey personnel in non-Geological Survey publications that came to our attention in 1984. Non-Geological Survey personnel who share authorship in articles with U.S. Geological Survey personnel are indicated by an asterisk (*) immediately following the name. **These publications are not available from the U.S. Geological Survey.**

OP-1. W. O. Addicott. Circum-Pacific map group plans few series. AAPG Explorer, v. 3, no. 11, July 1982. p. 5.

OP-2. A. A. Afifi, O. P. Bricker and J. C. Chemerys. Experimental chemical weathering of various bedrock types at different pH-values; 1, Sandstone and granite. Chemical Geology, v. 49, no. 1-3, June 10, 1985. p. 87-113.

OP-3. R. D. Aines*, S. H. Kirby and G. R. Rossman*. Hydrogen speciation in synthetic quartz. Physics and Chemistry of Minerals, v. 11, no. 5, November 1984. p. 204-212.

OP-4. J. D. Albers, R. W. Kistler and Loretta Kwak. CALIFORNIA. The Mule Mountain Stock, an early Middle Devonian pluton in Northern California. Isochron/West, v. 41, December 1984. p. 13.

OP-5. J. P. Albers, editor. CALIFORNIA. An issue devoted to the West Shasta massive sulfide deposits, California. Economic Geology and the Bulletin of the Society of Economic Geologists, v. 80, no. 8, December 1985. p. 2067-2254.

OP-6. J. P. Albers. Introduction. Economic Geology and the Bulletin of the Society of Economic Geologists, v. 80, no. 8, December 1985. p. 2067-2071.

OP-7. J. P. Albers. CALIFORNIA. Geology of the Brick Flat massive sulfide body, Iron Mountain cluster, West Shasta District, California. Economic Geology and the Bulletin of the Society of Economic Geologists, v. 80, no. 8, December 1985. p. 2092-2099.

OP-8. J. P. Albers and J. H. Bain*. CALIFORNIA. Regional setting and new information on some critical geologic features of the West Shasta District, California. Economic Geology and the Bulletin of the Society of Economic Geologists, v. 80, no. 8, December 1985. p. 2072-2091.

OP-9. T. M. Albert. Geoscience data management. Computers & Geosciences, v. 9, no. 1, 1983. p. 3-6.

OP-10. J. N. Aleinikoff. NEW YORK. Isotopic and morphologic evidence for the age of the Fordham Gneiss. American Journal of Science, v. 285, no. 5, May 1985. p. 459-479.

OP-11. J. N. Aleinikoff, R. H. Moench and J. B. Lyons*. MAINE. Carboniferous U-Pb age of the Sebago Batholith, southwestern Maine; metamorphic and tectonic implications. Geological Society of America Bulletin, v. 96, no. 8, August 1985. p. 990-996.

OP-12. L. R. Alldredge. Geomagnetic secular variation and varying dipoles in the core. Journal of Geomagnetism and Geoelectricity, v. 36, no. 12, 1984. p. 621-633.

OP-13. L. R. Alldredge. Cubic approximations of definitive geomagnetic reference field models. JGR. Journal of Geophysical Research. B, v. 90, no. 10, September 10, 1985. p. 8719-8728.

OP-14. L. R. Alldredge. More on the alleged 1970 geomagnetic jerk. Physics of the Earth and Planetary Interiors, v. 39, no. 4, September 1985. p. 255-264.

OP-15. W. M. Alley. On the treatment of evapotranspiration, soil moisture accounting, and aquifer recharge in monthly water balance models. Water Resources Research, v. 20, no. 8, 1984. p. 1137-1149.

OP-16. W. M. Alley. Water balance models in one-month-ahead streamflow forecasting. Water Resources Research, v. 21, no. 4, April 1985. p. 597-606.

OP-17. W. M. Alley. Analysis and modeling of Palmer's drought index series. Journal of Hydrology, v. 80, no. 1-2, September 15, 1985. p. 179-185.

OP-18. R. W. Allmendinger*, D. M. Miller and T. E. Jordan*. UTAH. Known and inferred Mesozoic deformation in the hinterland of the Sevier Belt, Northwest Utah. Utah Geological Association Publication, v. 13, 1984. p. 21-34.

OP-19. Hassan Amini*, H. H. Mehnert and J. D. Obradovich. IDAHO. K-Ar ages of late Cenozoic basalts from the western Snake River plain, Idaho. Isochron/West, v. 41, December 1984. p. 7-11.

OP-20. H. D. Ander, leader*, F. M. Byers, Jr., leader*, P. P. Orkild, leader, Harley Barnes, W. J. Carr, W. W. Dudley, E. C. Jenkins, F. G. Poole, R. R. Shroba, R. B. Scott, M. G. Van Werken, D. E. Broxton*, B. M. Crowe*, D. J. Krier*, S. S. Levy*, W. L. Hawkins*, D. T. Vaniman* and R. G. Warren*. NEVADA. Nevada Test Site field trip guidebook; 1984, Field trip 10, *in* Western geological excursions; volume 2 (Joseph Lintz, editor). Reno, NV: Univ. Nev. at Reno, Dep. Geol. Sci., v. 2, 1984. p. 1-35.

OP-21. H. W. Anderson, Jr. and J. F. Ruhl. MINNESOTA. Geohydrology and hydrochemistry of aquifers in Cretaceous rocks, Minnesota, *in* Geohydrology of the Dakota Aquifer (D. G. Jorgensen, editor and others). Worthington, OH: Natl. Water Well Assoc., March 1984. p. 27-37.

OP-22. M. P. Anderson*, J. A. Munter* and T. C. Winter. The interaction of lakes with variably saturated porous media. Water Resources Research, v. 20, no. 8, 1984. p. 1164-1166.

OP-23. O. J. Anderson* and G. D. Stricker. NEW MEXICO. Stratigraphy and coal occurrences of the Tres Hermanos Formation and Gallup Sandstone (Upper Cretaceous), Zuni Basin, west-central New Mexico. Publication - North Dakota Geological Society, v. 84-1, 1984. p. 115-125.

OP-24. R. N. Anderson*, M. D. Zoback, S. H. Hickman and R. L. Newmark*. Permeability versus depth in the upper oceanic crust; in situ measurements in DSDP Hole 504B, eastern Equatorial Pacific. JGR. Journal of Geophysical Research. B, v. 90, no. 5, April 10, 1985. p. 3659-3669.

OP-25. R. N. Anderson*, M. D. Zoback, S. H. Hickman and R. L. Newmark*. Permeability versus depth in the upper oceanic crust; in situ measurements in Deep Sea Drilling Project Hole 504B, eastern Equatorial Pacific. Initial Reports of the Deep Sea Drilling Project, v. 83, April 1985. p. 429-442.

OP-26. R. Y. Anderson*, E. B. Nuhfer* and W. E. Dean. WASHINGTON. Sedimentation in a blast-zone lake at Mount St. Helens, Washington; implications for varve formation. Geology (Boulder), v. 13, no. 5, May 1985. p. 348-352.

OP-27. T. W. Anderson. Southwest alluvial basins, RASA study; an overview, *in* Water today and tomorrow (J. A. Replogle, editor and others). New York, NY: Am. Soc. Civ. Eng., 1984. p. 606-613.

OP-28. W. L. Anderson. Computation of Green's tensor integrals for three-dimensional electromagnetic problems using fast Hankel transforms. Geophysics, v. 49, no. 10, October 1984. p. 1754-1759.

OP-29. W. L. Anderson and A. D. Chave*. Numerical integration of related Hankel transforms by quadrature and continued fraction expansion. Geophysics, v. 49, no. 10, October 1984. p. 1811-1813.

OP-30. F. Andrawes*, G.. Holzer*, Edwin Roedder, E. K. Gibson, Jr.* and J. Oro*. Gas chromatographic analysis of volatiles in fluid and gas inclusions. Journal of Chromatography, v. 302, October 19, 1984. p. 181-193.

OP-31. D. J. Andrews and T. C. Hanks. Scarp degraded by linear diffusion; inverse solution for age. JGR. Journal of Geophysical Research. B, v. 90, no. 12, October 10, 1985. p. 10,-193-10,208.

OP-32. F. L. Andrews and J. L. Strause. TEXAS. Water quality of Lake Granbury, north-central Texas. Report - Texas Department of Water Resources, v. 284, December 1983. 147 p.

OP-33. G. A. Andrews. MARYLAND. Miocene diatomaceous beds of the Calvert Formation at Pope's Creek, Charles County, Maryland, *in* Cretaceous and Tertiary stratigraphy, paleontology, and structure, southwestern Maryland and northeastern Virginia (N. O. Frederiksen, editor and others). Reston, VA: Am. Assoc. Stratigr. Palynol., 1984. p. 175-180.

OP-34. G. W. Andrews and W. H. Abbott*. GEORGIA. Miocene diatoms from Hawthorn Formation, Thomas County, Georgia. Bulletins of American Paleontology, v. 87, no. 321, March 27, 1985. 109 p.

OP-35. G. W. Andrews and V. A. Stoelzel. Morphology and evolutionary significance of Perissonoe, a new marine diatom genus. Proceedings of the International Diatom Symposium, v. 7, 1984. p. 225-240.

OP-36. M. C. Andrews, W. D. Mooney and R. P. Meyer*. The relocation of microearthquakes in the northern Mississippi Embayment. JGR. Journal of Geophysical Research. B, v. 90, no. 12, October 10, 1985. p. 10,223-10,236.

OP-37. Jacques Angelier*, Bernard Colletta* and R. E. Anderson. NEVADA, ARIZONA. Neogene paleostress changes in the Basin and Range; a case study at Hoover Dam, Nevada-Arizona. Geological Society of America Bulletin, v. 96, no. 3, March 1985. p. 347-361.

OP-38. R. J. Archuleta. CALIFORNIA. Modeling strong motion data from the 1979 Imperial Valley earthquake. Proceedings of the World Conference on Earthquake Engineering, v. 8, no. 2, 1984. p. 369-376.

OP-39. F. C. Armstrong. Memorial to Fred Oscar Jones, 1912-1983. Memorials - Geological Society of America, v. 15, 1985. 4 p.

OP-40. Ted Arnow. UTAH. A history of the Utah Geological Association. Utah Geological Association Publication, v. 13, 1984. p. 1-8.

OP-41. M. A. Arthur*, W. A. Dean and G. E. Claypool. Anomalous 13C enrichment in modern marine organic carbon. Nature (London), v. 315, no. 6016, May 16, 1985. p. 216-218.

OP-42. M. A. Arthur*, W. E. Dean and D. A. Stow*. Models for the deposition of Mesozoic-Cenozoic fine-grained organic-carbon-rich sediment in the deep sea. Geological Society Special Publications, v. 15, 1984. p. 527-560.

OP-43. P. J. Aruscavage and E. Y. Campbell. An ion-selective electrode method for determination of chlorine in geological materials. Talanta (Oxford), v. 30, no. 10, 1983. p. 745-749.

OP-44. E. D. Attanasi and L. J. Drew. Lognormal field size distributions as a consequence of economic truncation. Journal of the International Association for Mathematical Geology, v. 17, no. 4, May 1985. p. 335-351.

OP-45. E. D. Attanasi and L. J. Drew. Offshore exploration performance and industry change; the case of the Gulf of Mexico. JPT. Journal of Petroleum Technology, v. 36, no. 3, March 1984. p. 437-442.

OP-46. E. D. Attanasi and J. L. Haynes*. Economics and appraisal of conventional oil and gas in the western Gulf of Mexico. JPT. Journal of Petroleum Technology, v. 36, no. 13, December 1984. p. 2171-2180.

OP-47. D. F. Atwood and S. M. Gorelick. Hydraulic gradient control for groundwater contaminant removal. Journal of Hydrology, v. 76, no. 1-2, January 25, 1985. p. 85-106.

OP-48. Jean Aubouin*, Jacques Bourgois*, Jacques Azéma* and Roland von Huene. Guatemala margin; a model of convergent extensional margin?. Initial Reports of the Deep Sea Drilling Project, v. 84, May 1985. p. 911-917.

OP-49. Jean Aubouin* and Roland von Huene. Summary; Leg 84, Middle America Trench transect off Guatemala and Costa Rica. Initial Reports of the Deep Sea Drilling Project, v. 84, May 1985. p. 939-957.

OP-50. Charles Avery, L. R. Herbert*, D. A. Bischoff*, D. W. Clark*, R. L. Seiler*, Kevin Guttormson*, M. S. Elizondo*, V. L. Jensen*, Michael Enright*, D. C. Emett*, Carole Burden*, M. R. Eckenwiler* and G. W. Sandberg*. UTAH. Developing a state water plan; ground-water conditions in Utah, Spring of 1984. Cooperative Investigations Report - Utah, Department of Natural Resources, v. 24, 1984. 79 p.

OP-51. R. A. Ayuso, J. G. Arth*, A. K. Sinha*, J. Carlson* and D. R. Wones*. MAINE. Comparative geochronology in the reversely zoned plutons of the Bottle Lake Complex, Maine; U-Pb on zircons and Rb-Sr on whole rocks. Contributions to Mineralogy and Petrology, v. 88, no. 1-2, 1984. p. 113-125.

OP-52. L. J. Bachman. MARYLAND. The Columbia Aquifer of the eastern shore of Maryland; Part 1, Hydrogeology. Report of Investigations - Maryland Geological Survey, v. 40, 1984. p. 1-34.

OP-53. William Back, editor and R. A. Freeze, editor*. Chemical hydrogeology. Stroudsburg, PA: Hutchinson Ross Publ. Co., 1983. 416 p.

OP-54. William Back, Bruce Hanshaw, Bill Ward* and Al Weidie*. Geology and hydrogeology of carbonate rocks of the northeastern Yucatan Peninsula; road log and supplement to 1978 guidebook, Geology and hydrogeology of northeastern Yucatan; New Orleans Geol. Soc.. Boulder, CO: Geol. Soc. Am., v. 1982, no. 10, 1982. variously paginated.

OP-55. Jan Backman*, Jean Westberg-Smith*, J. G. Baldauf, S. Brown*, David Bukry, L. E. Edwards, Rex Harland* and Paul Huddlestun*. Biostratigraphy of Leg 81 sediments; a high latitude record. Initial Reports of the Deep Sea Drilling Project, v. 81, December 1984. p. 855-860.

OP-56. P. A. Baedecker. Comments on least-squares polynomial filters for inital point and slope estimation. Analytical Chemistry (Washington, DC), v. 57, no. 7, June 1985. p. 1477-1479.

OP-57. G. B. Bailey and J. L. Dwyer*. UTAH. Evaluation of SPOT simulator data for geologic mapping in the Split Mountain region, Uintah County, Utah, *in* SPOT simulation applications handbook (SPOT Image Corporation). Falls Church, VA: Am. Soc. Photogramm., 1984. p. 47-55.

OP-58. R. A. Bailey, E. L. Harp, D. K. Keefer, M. J. Bennett, C. D. Miller, S. H. Wood* and S. Steine*. CALIFORNIA. Mono Craters, Long Valley Caldera; seismicity, volcanism, and engineering geology; Field trip ll roadlog, *in* Western geological excursions; volume 2 (Joseph Lintz, editor). Reno, NV: Univ. Nev. at Reno, Dep. Geol. Sci., v. 2, 1984. p. 36-87.

OP-59. W. H. Bakun. Magnitudes and moments of duration. Bulletin of the Seismological Society of America, v. 74, no. 6, December 1984. p. 2335-2356.

OP-60. W. H. Bakun and W. B. Joyner. CALIFORNIA. The M_L scale in central California. Bulletin of the Seismological Society of America, v. 74, no. 5, October 1984. p. 1827-1843.

OP-61. W. H. Bakun and A. G. Lindh. CALIFORNIA. The Parkfield, California, earthquake prediction experiment. Science, v. 229, no. 4714, August 16, 1985. p. 619-624.

OP-62. A. H. Balch, editor* and M. W. Lee, editor. Vertical seismic profiling; technique, applications and case histories. Boston, MA: Int. Hum. Resour. Dev. Corp., 1984. 488 p.

OP-63. A. H. Balch*, M. W. Lee, J. J. Miller and R. T. Ryder. WYOMING. Case history; detection of Madison Limestone porosity, Powder River basin, Wyoming, *in* Vertical seismic profiling; technique, applications and case histories (A. H. Balch, editor and others). Boston, MA: Int. Hum. Resour. Dev. Corp., 1984. p. 289-305.

OP-64. A. H. Balch*, M. W. Lee and R. T. Ryder. WYOMING. Case history; detection of Leo Sand lenses, Powder River basin, Wyoming, *in* Vertical seismic profiling; technique, applications and case histories (A. H. Balch, editor and others). Boston, MA: Int. Hum. Resour. Dev. Corp., 1984. p. 269-287.

OP-65. J. G. Baldauf. Cenozoic diatom biostratigraphy and paleoceanography of the Rockall Plateau region, North Atlantic, Deep Sea Drilling Project Leg 81. Initial Reports of the Deep Sea Drilling Project, v. 81, December 1984. p. 439-478.

OP-66. H. R. Balkwill*, D. G. Cook*, R. L. Detterman, A. F. Embry*, E. Håkansson*, A. D. Miall*, T. P. Poulton* and F. G. Young*. Arctic North America and northern Greenland, *in* The Mesozoic, B (M. Moullade, editor and others). Amsterdam: Elsevier, v. 2, 1983. p. 1-31.

OP-67. M. M. Ball, R. G. Martin*, W. D. Bock*, R. E. Sylwester*, R. M. Bowles, D. Taylor, E. L. Coward, J. E. Dodd and L. Gilbert*. Seismic structure and stratigraphy of northern edge of Bahaman-Cuban collision zone. AAPG Bulletin, v. 69, no. 8, August 1985. p. 1275-1294.

OP-68. Miriam Baltuck*, Elliott Taylor* and Kristin McDougall. Mass movement along the inner wall of the Middle America Trench, Costa Rica. Initial Reports of the Deep Sea Drilling Project, v. 84, May 1985. p. 551-557.

OP-69. Miriam Baltuck*, Roland von Huene and R. J. Arnott*. Sedimentology of the western continental slope of Central America. Initial Reports of the Deep Sea Drilling Project, v. 84, May 1985. p. 921-937.

OP-70. Miriam Baltuck*, Roland von Huene and Jean Aubouin*. Introduction and explanatory notes. Initial Reports of the Deep Sea Drilling Project, v. 84, May 1985. p. 5-19.

OP-71. K. J. Banaszak. INDIANA. Potential effects on ground water of a hypothetical surface coal mine in Indiana. Ground Water Monitoring Review, v. 5, no. 1, 1985. p. 51-57.

OP-72. N. G. Banks, R. Y. Koyanagi, J. M. Sinton* and K. T. Honma. The eruption of Mount Pagan Volcano, Mariana Islands, 15 May 1981. Journal of Volcanology and Geothermal Research, v. 22, no. 3-4, October 1984. p. 225-269.

OP-73. G. M. Barats, T. H. Nilsen and R. T. Golia. OREGON, CALIFORNIA. Conglomerate clast composition of the Upper Cretaceous Hornbrook Formation, Oregon and California. Field Trip Guidebook - Pacific Section, Society of Economic Paleontologists and Mineralogists, v. 42, 1984. p. 111-122.

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ABSTRACTS

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OP-1870. J. I. Ziony and R. F. Yerkes. CALIFORNIA. Fault slip-rate estimation for the Los Angeles region; challenges and opportunities [abstr.] Earthquake Notes, v. 55, March 1984. p. 8.

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ABBREVIATIONS USED

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

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