Publications of the Georgia Geologic Survey

25th Edition

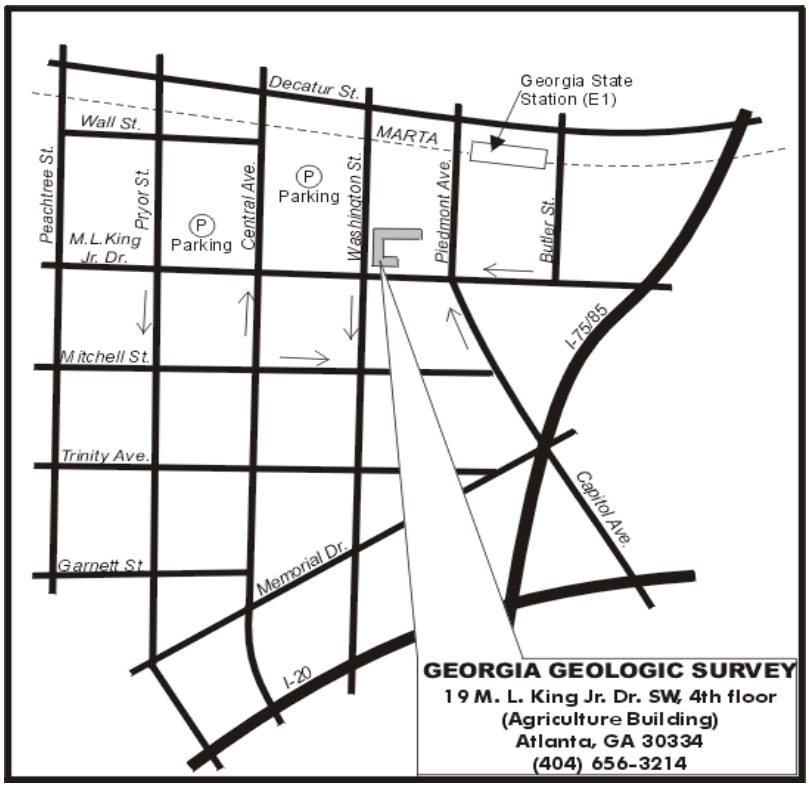
DEPARTMENT OF NATURAL RESOURCES
Lonice C. Barrett, Commissioner

ENVIRONMENTAL PROTECTION DIVISION
Harold F. Reheis, Director

GEORGIA GEOLOGIC SURVEY
William H. McLemore, State Geologist

Atlanta, 2000

CIRCULAR 1



Directions

From the North:	**I-75/85 south, exit at Martin Luther King, Jr., Dr.**
From the South:	**I-75/85 north, exit at Fulton St./Capitol Ave.,** **left on Capitol Ave.,** **left on Martin Luther King, Jr. Dr.**
From the East:	**I-20 west, exit at Capitol Ave.,** **right on Capitol Ave.,** **left on Martin Luther King, Jr. Dr.**
From the West:	**I-20 east, exit at Windsor St./Spring St.** **north onto Spring St.,** **right on Mitchell St.,** **left on Capitol Ave.** **left on Martin Luther King, Jr. Dr.**
On MARTA:	**take East-West line to Georgia State Station,** **exit onto Piedmont Ave.,** **left (uphill) to Martin Luther King, Jr. Dr.,** **right on Martin Luther King, Jr. Dr.** **(Agriculture Building is on the right)**

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TOOGOOD, Landria J. - Clerk I, Map Sales Coordinator

TRENT, Victoria P. - Senior Geologist

WALKER, Charles S. - Senior Geologist

CONTENTS

GEORGIA GEOLOGIC SURVEY

State-supported geologic work in Georgia began with the four-year appointment of John Cotting as State Geologist in 1836. Valuable mineral deposits as well as the measurement of magnetic variations in the state were noted during this first Survey. A second Survey, however, was not established until 1874, thirty-four years later. During the seven years of the second Survey, additional minerals, including gold, were studied in the state. The Geological Survey of Georgia was established for the third time in 1890 and has operated continuously since then under various names. In 1943, the Survey became the Department of Mines, Mining, and Geology of the State Division of Conservation. In 1972, under the Department of Natural Resources, it became the Earth and Water Division, subsequently renamed the Geologic and Water Resources Division (1976). Since 1978, it has been the Georgia Geologic Survey, a branch of the Environmental Protection Division of the Department of Natural Resources.

GEORGIA STATE GEOLOGISTS

1836-1840	John R. Cotting	1938-1964	Garland Peyton
1874-1881	George Little	1964-1969	A. S. Furcron
1890-1893	J. W. W. Spencer	1969-1972	Jesse H. Auvil, Jr.
1893-1908	W. S. Yeates	1972-1978	Sam M. Pickering, Jr.
1908-1933	S. W. McCallie	1979-present	William H. McLemore
1933-1938	R. W. Smith		

GOALS OF THE GEORGIA GEOLOGIC SURVEY

1. To provide assistance to the Environmental Protection Division, other state and federal agencies, and the Georgia public in properly protecting, managing, regulating, and allocating Georgia's earth and water resources.
2. To conduct and encourage relevant environmental and earth and water resource investigations throughout the State; to publish pertinent results to assist the public in understanding and protecting Georgia's natural resources and to act as a clearinghouse for such data.
3. To regulate exploration for petroleum and natural gas, to regulate underground injection, and to license water well contractors.
4. To assist the Director of the Environmental Protection Division in coordinating a statewide ground-water policy of anti-degradation.
5. To provide accurate, up-to-date, multi-scale topographic and digital maps for the entire State, and to assure a statewide map and digital data base distribution system. To provide educational material to increase public knowledge of the earth and water resources of Georgia.

MISSION OF THE ENVIRONMENTAL PROTECTION DIVISION

The Environmental Protection Division strives to provide for Georgia's people an environment that is safe and healthy; enhances their quality of life; accommodates change; and enriches the lives of future generations.

As we pursue this vision, all of the Environmental Protection Division's people are empowered to be environmental stewards; fix things that are not right; prevent pollution; be ambassadors for the Environmental Protection Division, the Department of Natural Resources, and state government; originate and implement better ways of doing our jobs; and use good sense to make Georgia's environment better.

HOW TO OBTAIN MAPS AND PUBLICATIONS

Note: Refunds are not issued; therefore, please be sure that the map or publication you purchase is exactly the one you want. Prepayment is required.

In Person: Maps and publications are sold at the Georgia Geologic Survey, Monday - Friday, between the hours of 10:00 a.m. and 2:00 p.m., except on State Holidays. Only cash, checks, or money orders payable to the Georgia Department of Natural Resources are accepted. Anyone presenting a check for payment must have a valid driver's license or state issued photo identification card.

By Mail: Prepayment is required. Only written orders accompanied by check or money order payable to the Georgia Department of Natural Resources are accepted. Mail order and payment to:

Georgia Geologic Survey
19 Martin Luther King Jr. Dr., SW
Room 400, Maps and Publications
Atlanta, Georgia 30334
(404) 657-6127

In addition to the total item list price, the following shipping and handling charges must be included in the payment:

	Books and folded maps	Maps rolled in tubes
$0 - $5.00	$1.50	$2.50
$5.01 - $10.00	$2.00	$3.00
$10.01 - $20.00	$2.50	$3.50
$20.01 - $30.00	$3.00	$4.00
$30.01 - $40.00	$3.50	$4.50
$40.01 - $50.00	$4.00	$5.00
$50.01 - $100.00	$4.50	$5.50
Over $100.00	5%	6%

All Maps will be mailed folded unless requested that they be rolled. If ordering publications ***and*** rolled maps, please include two separate shipping and handling charges. In-State (Georgia) purchasers, please include 7% sales tax, applied only to the purchase price of products, not inclusive of the shipping and handling charges. No stamps accepted.

MISCELLANEOUS INFORMATION

OUT OF PRINT PUBLICATIONS

Customers may obtain copies of out of print publications by using the duplication facilities available at the Survey for a fee of $0.25 per page. For copying in excess of 200 pages, customers should bring their own copying equipment, or prepay and let the Survey duplicate within 10 working days. Please call to verify copying charges before placing your order.

GEORGIA MINERAL NEWSLETTER

The Survey maintains copies (for reproduction only) of the Georgia Mineral Newsletter, vol. I, January, 1948 to vol. XVII, November, 1964-1965. No Newsletters have been published since 1965. Customers may duplicate copies at the Survey for a fee of $0.25 per page.

OPEN FILE REPORTS

Open file reports and maps covering a wide variety of technical subjects have been developed by the Georgia Geologic Survey. Please contact the Information Geologist for specific information. A list of the reports begins on page 40.

WELL CUTTINGS AND CORES

The Georgia Geologic Survey maintains a library of over 3000 sets of well cuttings and cores collected from Georgia wells (mostly in the Coastal Plain Province). Cuttings are collected from oil test wells, and voluntarily by drillers from water wells. Cores are obtained from industrial exploration companies, utility companies, the U. S. Army Corps of Engineers, and the Survey's drilling crew. Persons interested in the well cuttings and cores should contact the Information Geologist.

GEOPHYSICAL LOGS

Geophysical logs on open file furnish additional records on many wells in the state. Electric, gamma ray, caliper, and other logs are available for consultation in Atlanta no less than six months after an oil test is completed. These logs may not be removed from the premises; however, the user may duplicate them at the Survey offices for a nominal fee or request that the Survey obtain outside duplication of the logs at his expense. Check with the Information Geologist on the availability of logs for a specific well before visiting the Survey.

LIBRARY AND FILE FACILITIES

The survey maintains some library and file facilities. Many unpublished works, such as theses, dissertations, etc., are available for inspection. Please make an appointment with the Information Geologist for access to these files.

PUBLICATIONS

BULLETINS

B-0	**The Paleozoic Group-The geology of ten counties of northwestern Georgia.** J.W. Spencer, 1893, 406 p.	*Out of Print*
B-1	**A preliminary report on the marbles of Georgia.** S.W. McCallie, 1894; 2nd ed. 1907, 126 p.	*$7.50*
B-2	**A preliminary report on the corundum deposits of Georgia.** F.P. King, 1894, 133 p.	*Out of Print*
B-3A	**A preliminary report on a part of the water powers of Georgia.** C.C. Anderson and B. M. Hall, 1896, 150 p.	*Out of Print*
B-4A	**A preliminary report on the gold deposits of Georgia.** W.S. Yeates, S.W. McCallie, and F.P. King, 1896, 542 p., 2nd printing 1989.	*$15.00*
B-5A	**A preliminary report on a part of the phosphates and marls of Georgia.** S.W. McCallie, 1896, 98 p.	*Out of Print*
B-6A	**A preliminary report on a part of the clays of Georgia.** G.E. Ladd, 1898, 204 p.	*Out of Print*
B-7	**A preliminary report on a part of the artesian well system of Georgia.** S.W. McCallie, 1898, 214 p.	*Out of Print*
B-8	**A preliminary report on a part of the roads and road-building materials of Georgia.** S.W. McCallie, 1901, 264 p.	*$10.00*
B-9A	**A preliminary report on a part of the granites and gneisses of Georgia.** T.L. Watson, 1902, 368 p.	*$7.50*

B-10A	**A preliminary report on a part of the iron ores of Georgia: Polk, Bartow, and Floyd counties.** S.W. McCallie, 1900, 190 p.	*$7.50*
B-11	**A preliminary report on the bauxite deposits of Georgia.** T.L. Watson, 1904, 169 p.	*$10.00*
B-12	**A preliminary report on the coal deposits of Georgia.** S.W. McCallie, 1904, 121 p.	*$10.00*
B-13	**A preliminary report on the ocher deposits of Georgia.** T.L. Watson, 1906, 81 p.	*$7.50*
B-14	**A preliminary report on the manganese deposits of Georgia.** T.L. Watson, 1908, 195 p.	*$7.50*
B-15	**A preliminary report on the underground waters of Georgia.** S.W. McCallie, 1908, 370 p.	*Out of Print*
B-16	**Second report on the water powers of Georgia.** B.M. Hall and M.R. Hall, 1908, 424 p.	*$7.50*
B-17	**Report on the fossil iron ore deposits of Georgia.** S.W. McCallie, 1908, 199 p.	*$7.50*
B-18	**Second report on the clay deposits of Georgia.** J.O. Veatch, 1909, 283 p., 2nd printing 1989.	*Out of Print*
B-19	**Second report on the gold deposits of Georgia.** S.P. Jones, 1909, 453 p.	*Out of Print*
B-20	**A preliminary report on the mineral springs of Georgia.** S.W. McCallie, 1913, 190 p.	*$7.50*
B-21	**A report on the limestones and marls of the Coastal Plain of Georgia.** J.E. Brantly, 1916, 291 p.	*Out of Print*

B-22	Never printed.	
B-23	**A preliminary report on the mineral resources of Georgia.** S.W. McCallie, 1910, 37 p.	*Out of Print*
B-24	**A second report on the public roads of Georgia.** S.W. McCallie, 1910, 37 p.	*$7.50*
B-25	**A preliminary report on drainage investigations in Georgia.** S.W. McCallie and U.S. Department of Agriculture, 1911, 123 p.	*$7.50*
B-26	**Geology of the Coastal Plain of Georgia.** J.O. Veatch and L.W. Stephenson, 1911, 463 p.	*Out of Print*
B-27	**Limestones and cement materials of north Georgia.** T.P. Maynard, 1912, 296 p.	*$7.50*
B-28	**Public roads of Georgia.** S.W. McCallie, 1912, 12 p.	*Out of Print*
B-29	**A report on the asbestos, talc, and soapstone deposits of Georgia.** O.B. Hopkins, 1914, 319 p.	*Out of Print*
B-30	**Feldspar and mica deposits of Georgia.** S.L. Galpin, 1915, 190 p.	*Out of Print*
B-31	**Bauxite and fuller=s earth of the Coastal Plain of Georgia.** H.K. Shearer, 1917, 332 p.	*Out of Print*
B-32	**Agricultural drainage in Georgia.** J.E. Brantly and U.S Department of Agriculture, 1917, 117 p.	*$7.50*
B-33	**A preliminary report on a part of the pyrites deposits of Georgia.** H.K Shearer and J.P.D. Hull, 1918, 243 p.	*Out of Print*
B-34	**Report on the slate deposits of Georgia.** H.K. Shearer, 1918,192 p.	*$7.50*

B-35	**Manganese deposits of Georgia.** J.P.D. Hull, L. LaForge and W.R. Crane, 1919, 295 p.	*Out of Print*
B-36	**Report on the barytes deposits of Georgia.** J.P.D. Hull, 1920, 146 p.	*Out of Print*
B-37	**A preliminary report on the sand and gravel deposits of Georgia.** L.P. Teas, 1921, 392 p.	*Out of Print*
B-38	**Third report on the water powers of Georgia.** B.M. Hall and M.R. Hall, 1921, 316 p.	$7.50
B-39	**Historical sketch of the Geological Survey of Georgia.** H.S. Cave, 1922, 154 p.	*$10.00*
B-40	**Petroleum and natural gas possibilities in Georgia.** T.M. Prettyman and H.S. Cave, 1923, 164 p.	*Out of Print*
B-41	**Iron ore deposits of Georgia.** R.H. Haseltine, 1924, 222 p.	*$10.00*
B-42	**Physical geography of Georgia.** L. LaForge, C.W. Cooke and others, 1925, 189 p.	*Out of Print*
B-43	**Geology of Tate Quadrangle, Georgia.** W.S. Bayley, 1928, 170 p.	*$7.50*
B-44	**Sedimentary kaolins of the Coastal Plain of Georgia.** R.W. Smith, 1929, 2nd printing, 1966, 482 p.	*$7.50*
B-44A	**Supplement to sedimentary kaolins of Georgia.** A.C. Munyan, 1938, 42 p.	*Out of Print*
B-45	**Shales and brick clays of Georgia.** R.W. Smith, 1931; 2nd printing 196 348 p.	*$7.50*
B-46	**Kyanite and vermiculite deposits of Georgia.** L.M. Prindle and others, 1935, 50 p.	*Out of Print*

B-47	**Forsterite olivine deposits of North Carolina and Georgia.** C.E. Hunter, published in cooperation with Tennessee Valley Authority, 1941, 117 p.	*$3.00*
B-48	**Mica-bearing pegmatites of Georgia.** A.S. Furcron and K.H. Teague, 1943, 192 p.	*$3.00*
B-49	**Artesian water in southeastern Georgia, with special reference to the coastal area.** M.A. Warren, 1944, 140 p.	*$3.00*
B-49A	**Artesian water in southeastern Georgia, with special reference to the coastal area: well records.** M.A. Warren, 1944, 140 p.	*$3.00*
B-50	**Geology of the Coastal Plain of east-central Georgia.** P.E. LaMoreaux, 1946, 26 p.	*$3.00*
B-51	**Sillimanite and massive kyanite in Georgia.** A.S. Furcron and K.A. Teague, 1945, 76 p.	*$3.00*
B-52	**Geology and ground-water resources of the Coastal Plain of east-central Georgia.** P.E. LaMoreaux, 1946, 173 p.	*Out of Print*
B-53	**Talc deposits of Murray County, Georgia.** A.S. Furcron, K.H. Teague and J.L. Calver, 1947, 75 p.	*$3.00*
B-54	**Geology and mineral resources of the Paleozoic area in northwest Georgia.** C. Butts and B. Gildersleeve, 1948, 2nd printing 1994, 176 p.	*$12.00*
B-55	**Geology and ground-water resources of the Atlanta area, Georgia.** S.M. Herrick and H.E. LeGrand,1949, 124 p.	*$3.00*
B-56	**Short contributions to the geology, geography and archaeology of**	

	Georgia. 1950, 160 p.	*$3.00*
B-57	**Geology and mineral resources of the Dalton Quadrangle, Georgia-Tennessee.** A.C. Munyan, 1951, 128 p.	*$3.00*
B-58	**Geology of the crystalline rocks of Georgia.** G.W. Crickmay, 1952, 56 p.	*$3.00*
B-59	**Geology and mineral resources of the Thomaston Quadrangle.** J.W. Clark, 1952, 103 p.	*$3.00*
B-60	**Short contributions to the geology, geography, and archaeology of Georgia (No. 2).** 1953, 336 p.	*$3.00*
B-61	**Geology of the Stone Mountain-Lithonia District, Georgia.** L.A. Herrmann, 1954, 139 p.	*$3.00*
B-62	**Contributions to the paleontology of northwest Georgia.** A.T. Allen and J.G. Lester, 1954, 166 p.	*$3.00*
B-63	**Stratigraphy, structure, and mineral resources of the Mineral Bluff Quadrangle, Georgia.** V.J. Hurst, 1955, 137 p.	*$3.00*
B-64	**Geology and ground-water resources of central-east Georgia.** H.E. LeGrand and A.S. Furcron, with a chapter on the surface-water resources by R.F. Carter and A.C. Lendo, 1956, 164 p.	*$3.00*
B-65	**The availability and use of water in Georgia.** M.T. Thomson, S.M. Herrrick, E. Brown and others, 1956, 329 p.	*$3.00*
B-66	**Zonation of the Middle and Upper Ordovician strata in northwestern Georgia.** A.T. Allen and J.G. Lester, 1957, 110 p.	*$3.00*
B-67	**The geology of Hart County, Georgia.** W.H. Grant, 1958, 75 p.	*$3.00*

B-68	**The geology and mineralogy of Graves Mountain, Georgia.** V.J. Hurst, 1959, 33 p.	*$3.00*
B-69	**Chemical quality of water of Georgia streams, 1957-1958 (A reconnaissance study).** R.N. Cherry, 1961,100 p.	*$3.00*
B-70	**Well logs of the Coastal Plain of Georgia.** S.M. Herrick, 1961, 462 p.	*$5.00*
B-71	**Geology and mineral resources of the northwest quarter of the Cohutta Mountain Quadrangle.** J.W. Salisbury, 1961, 61 p.	*$3.00*
B-72	**Geology and ground-water resources of the Macon area, Georgia.** H.E. LeGrand, 1962, 68 p.	*$3.00*
B-73	**Effect of a severe drought, 1954, on stream flow in Georgia.** M.T. Thomson and R.F. Carter, 1963, 97 p.	*$3.00*
B-74	**Logs of selected wells in the Coastal Plain of Georgia.** E.R. Applin and P.L. Applin, 1964, 229 p.	*$3.00*
B-75	**The Murphy Syncline in the Tate Quadrangle, Georgia.** W.M. Fairley, 1965, 71 p.	*$3.00*
B-76	**Subsurface ≅basement≅ rocks of Georgia.** Charles Milton and V.J. Hurst, 1965, 56 p.	*$3.00*
B-77	**The geology of the Brevard Lineament near Atlanta, Georgia.** M.W. Higgins, 1966, 49 p.	*$4.00*
B-78	**Specific cations in ground waters related to geologic formations in the Broad Quadrangle, Georgia.** C.A. Salotti and J.A. Fouts, 1967, 34 p.	*$3.00*

B-79	**Annotated bibliography of Georgia geology through 1959.** H.R. Cramer, A.T. Allen, Jr., and J.G. Lester, 1967, 368 p.	*$3.00*
B-80	**Precambrian-Paleozoic Appalachian problems.** 1969, 139 p.	*$5.00*
B-81	**Stratigraphy, paleontology, and economic geology of portions of Perry and Cochran Quadrangles, Georgia.** S.M. Pickering, 1970, 67 p.	*$3.00*
B-82	**Stratigraphy and economic geology of the eastern Chatham County phosphate deposit.** J.W. Furlow, 1969, 40 p.	*$5.00*
B-83	**The geology of Rabun and Habersham counties, Georgia.** R.D. Hatcher, Jr., 1971, 48 p.	*Out of Print*
B-84	**Annotated bibliography of Georgia geology, 1960 - 1964.** H.R. Cramer, 1972, 110 p., 2nd printing 1979.	*$3.00*
B-85	**Ultramafic and related rocks in the vicinity of Lake Chatuge.** M.E. Hartley III, 1973, 61 p.	*$3.00*
B-86	**The Georgia gravity base net.** R.E. Ziegler and L.M. Dorman, 1976, 33 p.	*$3.00*
B-87	**Symposium on the petroleum geology of the Georgia Coastal Plain.** L.P. Stafford, ed., 1974, 196 p.	*Out of Print*
B-88	**Trace fossils of the Oconee Group and basal Barnwell Group of east-central Georgia.** C.H. Schroder, 1982, 125 p.	*$8.50*
B-89	**Abstracts of theses on Georgia geology through 1974.** Compiled and edited by Falma Moye, 1976, 94 p.	*$3.00*
B-90	**Annotated bibliography of Georgia geology, 1965 - 1970.** H.R. Cramer,	

	1976, 84 p.	*$3.00*
B-91	**Availability of water supplies in northwest Georgia.** C.W. Cressler, M.A. Franklin, and W.G. Hester, 1976, 140 p.	*$4.00*
B-92	**Minerals of Georgia: Their properties and occurrences.** R.B. Cook, 1978, 189 p.	*$5.00*
B-93	**Short contributions to the geology of Georgia.** P.A. Platt, ed., 1978, 104 p.	*$3.50*
B-94	**Hydrogeology of the Gulf Trough-Apalachicola Embayment area, Georgia.** M.F. Kellam and L.L. Gorday, 1990, 75 p.	*$11.00*
B-95	**Upper Eocene stratigraphy of central and eastern Georgia.** P. F. Huddlestun and J. H. Hetrick, 1986, 84 p.	*$6.00*
B-96	**Geology of the Greater Atlanta region.** K.I. McConnell and C.E. Abrams, 1984, 127 p.	*$14.00*
B-97	**Hydrology and model evaluation of the principal artesian aquifer, Dougherty Plain, southwest Georgia.** L.R. Hayes, M.L. Maslia, and W.C. Meeks, 1983, 93 p.	*$7.00*
B-98	**Historical changes in the mean high water shoreline of Georgia, 1857-1982.** M.M. Griffin and V.J. Henry, 1984, 96 p.	*$4.00*
B-99	**Proceedings: A conference on the water resources of Georgia and adjacent areas.** R. Arora and L.L. Gorday, eds., 1984, 194 p.	*$8.00*
B-100	**Geology of the northeastern portion of the Dahlonega gold belt.** J.M. German, 1985, 41 p., 2nd printing 1990.	*Out of Print*

B-101	**Annotated bibliography of Georgia geology, 1971 - 1979.** H.R. Cramer, 1986, 310 p.	*$10.00*
B-102	**Quality of coal resources underlying Sand and Lookout Mountains of Georgia and Alabama.** S.L. Coleman, T.J. Crawford, and J.H. Medlin, 1986, 75 p.	*$3.00*
B-103	**Mica geochemistry and origin of pegmatites, Cherokee-Pickens District, Georgia.** A.J. Gunow and G.N. Bonn, 1989, 93 p.	*$8.00*
B-104	**A revision of the lithostratigraphic units of the Coastal Plain of Georgia: The Miocene through the Holocene.** P.F. Huddlestun, 1988, 192 p.	*$10.00*
B-105	**A revision of the lithostratigraphic units of the Coastal Plain of Georgia: The Oligocene.** P.F. Huddlestun, 1993, 152 p.	*$10.00*
B-106	**Construction material potential of the Coastal Plain of southwestern Georgia.** M.S. Friddell and J.S. Brackman, 1990, 239 p.	*$15.00*
B-107	**The geology of gold occurrences in the west-central Georgia Piedmont.** J.M. German, 1988, 48 p.	*Out of Print*
B-108	**Construction material potential of the eastern Georgia Coastal Plain: An evaluation.** M.S. Friddell and J.S. Brackman, 1990, 239 p.	*$15.00*
B-109	**Seismic investigation of the phosphate bearing, Miocene-age strata of the Continental Shelf of Georgia.** V.J. Henry, Jr. and J.A. Kellam, 1988, 43 p.	*$5.00*

B-110	**Distribution of heavy mineral sands adjacent to the Altamaha Sound: A possible exploration model.** J.A. Kellam, G.N. Bonn, and M.L. Laney, 1992, 61 p.	*$6.00*
B-111	**Heavy mineral-bearing sands from the Wicomico to the Princess Anne paleobarrier complexes along the Georgia Coastal Plain.** J.A. Kellam, M. Mallary, and M.L. Laney, 1992, 50 p.	*$4.00*
B-112	**Gold in east-central Georgia.** V.J. Hurst, 1990, 60 p.	*$10.00*
B-113	**Geology and ground-water resources of the coastal area of Georgia.** J.S. Clarke, C.M. Hacke, and M.F. Peck, 1990. Reprinted 1999. 106 p.	*$7.00*
B-114	**The natural environments of Georgia (formerly Miscellaneous Publication 8).** C.H. Wharton, 1977, 227 p., 3rd printing 1998.	*$8.00*
B-115	**Structural relations, origin, and emplacement of granitic rocks in the Cedar Rock Complex, Georgia Piedmont.** R.L. Atkins and J.A. Lineback, 1992, 40 p.	*$6.00*
B-116	**Development potential of the Floridan aquifer system in Georgia-A digital model analysis.** R.B. Randolph and M. Pernik, 1991, 30 p.	*$4.00*
B-117	**Proceedings of the symposium on the economic mineral deposits of the Southeast: Metallic ore deposits.** R.B. Cook, ed., 1990, 262 p.	*$13.00*
B-118	**A digital model approach to water-supply management of the Clayton, Claiborne, and Providence aquifers in southwestern Georgia.** L.L. Gorday, J.A. Lineback, A. F. Long, and W. H. McLemore, 1997, 91 p.	*$8.00*

B-119	**Construction material potential of the middle Georgia Coastal Plain.** J.S. Brackman, 1991, 228 p.	*$14.00*
B-120	**Proceedings of the symposium of the economic geology of the south-eastern industrial minerals.** S.M. Pickering, ed., 1991, 69 p.	*$9.00*
B-121	**Distribution of selected elements in stream sediments, stream hydrogeo-chemistry, and geology of the Oconee River Basin, Georgia.** M. D. Cocker, 1996, 84 p.	*$10.00*
B-122	**Case studies in applied geology in the southeastern United States.** D.N. Bearce and M.J. Neilson, eds., 1990, 69 p.	*$4.00*
B-123	**Economic geology of altered serpentinites in the Burks Mountain Complex, Columbia County, Georgia.** M.D. Cocker, 1992, 89 p.	*$5.00*
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RT-10	**Mineral resources of the central Savannah River area. Vol. 11.** V.J. Hurst, T.J. Crawford, and J. Sandy, 1966, University of Georgia, Athens, 231 p., reprinted 1988.	*Out of Print*
RT-11	**Exploration for mineral deposits in Habersham County, Georgia.** V.J. Hurst and T.J. Crawford, 1964, University of Georgia, Athens, 180 p., reprinted 1988.	*$9.00*
RT-12	**Exploration for mineral deposits in White County, Georgia.** V.J. Hurst and W.L. Otwell, 1964, University of Georgia, Athens, 166 p., reprinted 1981.	*Out of Print*
RT-13	**The Bell Mountain silica deposit, Towns County, Georgia.** V.J. Hurst and W.L. Otwell, 1964. University of Georgia, Athens, 42 p., reprinted 1981.	*$8.00*
RT-14	**The carbonate rocks in the Coosa Valley area, Georgia.** W.H. McLemore, and V.J. Hurst, 1970, University of Georgia, Athens, 170 p., second printing 1998	*$25.00*

MAPS

GEORGIA GEOLOGIC SURVEY MAPS

Statewide

SM-1	**Mineral resource map of Georgia.** Georgia Geological Survey, 1969, scale 1:500,000, size 42" x 36", reprinted 1992.	*$5.00*
SM-2	**Mineral resource map of Georgia.** Georgia Geological Survey, 1969, scale 1:2,000,000, size 11" x 17".	*$2.00*
SM-3	**Geologic map of Georgia.** Georgia Geological Survey, 1976, scale 1:500,000.	*$5.00*

SM-4	**Physiographic map of Georgia.** W.Z. Clark, Jr. and A.C. Zisa, 1976, scale 1:2,000,000, reprinted 1988.	*$1.00*
SM-5	**Geologic map of Georgia.** Compiled by D.E.Lawton, 1977, scale 1:2,000,000	*$2.00*
SM-6	**Detailed flood studies in Georgia: index map.** D. M. Mack and M. L. Pate, 1983, scale 1:500,000	*$4.00*
SM-7	**Geologic map of Georgia.** J. W. Smith and M. A. Green, 1986, size 11" x 17"	*Not Available*
SM-8	**Geologic map of Georgia.** Georgia Geological Survey, 1969, size 4" x 6"	*Not Available*
SM-9	**Simple bouguer gravity map of Georgia, with text.** Compiled by L. T. Long, S. R. Bridges, and L. M. Dorman, 1972, size 11’ x 17"	*Not Available*
SM-10	**Landcover of Georgia.** Department of Natural Resources, Wildlife Resources Division, 1996, scale 1:633,600 *(*Corresponding publication, PR-26*)*	*$3.00*

Regional

RM-1	**Geology and mineral resources of Rabun and Habersham Counties, including mines and prospects.** K. H. Teague and A. S. Furcron, 1948, scale 1:63,360	*$1.00*
RM-2	**Mineral resources of Union, Towns, Lumpkin, and White counties, Georgia.** Georgia Geological Survey in cooperation with Tennessee Valley Authority, 1950, scale 1:63,360	*$1.00*

RM-3	**Distribution of kaolin and fuller's earth mines and plants in Georgia and north Florida.** R. A. Shrum, 1970, scale 1:250,000	*Out of Print*
RM-4	**Okefenokee Swamp.** G. W. Crickmay, 1937, scale 1:211,200	*$1.00*
RM-5	**Geologic map of Forsyth and north Fulton counties.** J. B. Murray, 1973, scale 1:63,360	*$2.00*

Satellite Series

1977, black and white, scale 1:250,000

RM-6	**Blue Ridge Mountains**	*$0.50*
RM-7	**Coastal Georgia**	*$0.50*
RM-8	**Cumberland Plateau**	*$0.50*
RM-9	**Okefenokee Swamp**	*$0.50*
RM-10	**Satellite series set** (RM6-RM9)	*$2.00*
RM-11	**Northwest Georgia area - mines, quarries, and prospects.** Georgia Geological Survey in cooperation with Tennessee Valley Authority, 1946, scale 1:250,000	*Not Available*
RM-13	**Geologic map of Kennesaw Mountain-Sweat Mountain area, Cobb County, Georgia.** V. J. Hurst, 1959, scale 1:24,000	*Not Available*

U. S. GEOLOGICAL SURVEY MAPS

The State of Georgia has complete topographic map coverage at scales of 1:24,000 (1" represents 2,000'), 1:100,000 (1-1/4" represents approximately 1 mile), and 1:250,000 (1" represents approximately 4 miles).

A free index is available for ordering topographic maps at these scales. Each map must be ordered by indicating the scale desired and the number listed on the index quadrangle.

USGS maps may be purchased prepaid from the Georgia Geologic Survey or ordered prepaid from the U. S. Geological Survey at the following address:

U. S. Geological Survey
Map Distribution
Federal Center, Building 41
Box 25286
Denver, Colorado 80225
Telephone: (303-236-7477)
1-888-275-8747

General questions about USGS products can be answered by the USGS at 1-800-ASK-USGS (1-800-275-8747).

Several Georgia Area Planning and Development Commissions sell topographic maps for their geographic area. Contact the commission in the area of your interest for additional information.

Topographic maps for Georgia

1:24,000 (7.5')		*$4.00*
1:100,000 ($1/2^o$ x 1^o)		*$7.00*
1:250,000 (1^o x 2^o)		*$7.00*
GGS 50001	**Topographic base map of Georgia (1970).** Scale 1:500,000	*$7.00*
GGS 100444	**Greater Atlanta Region (1976).** Scale 1:100,000	*Not Available*

Other USGS Maps

INDEX	**Index to topographic maps of Georgia.**	*Free*
US-1	**Georgia Landsat satellite imagery mosaic.** 1976, scale 1:500,000	*$7.00*
US-2	**Slope map of Georgia.** 1976, scale 1:500,000	*$7.00*
US-3	**Coal deposits on Sand and Lookout Mountains, Dade and Walker counties, Georgia.** V.A. Johnson, 1946. Reprinted 1959.	*$7.00*

US-4	**Red iron-ore beds of Silurian Age in northeastern Alabama, northwestern Georgia, and eastern Tennessee.** J. W. Whitlow, 1962. (USGS MF-175)	Out of Print
US-5	**United States - Eastern half.** Scale 1:2,500,000	*Not Available*
US-6	**United States - Western half.** Scale 1:2,500,000 **Very Limited Supply**	*$7.00*
US-7	**United States Set - Eastern and Western halves.** Scale 1:2,500,000	*Not Available*
US-8	**United States-Complete.** Scale 1:6,000,000 (one sheet)	*$7.00*
US-9	**United States - Southeastern states.** Scale 1:200,000	*Not Available*
US-10	**Geologic map of the Tray Mountain Roadless Area, northern Georgia.** A. E. Nelson, R. P. Koeppen, and N. L. Chatman, 1983, scale 1:30,000. (USGS Map MF 1347-A)	*Not Available*
US-11	**Mineral resource potential of the Tray Mountain Roadless Area, northern Georgia.** A. E. Nelson, R. P. Koeppen, and N. L. Chatman, 1983, scale 1:30,000. (USGS Map MF 1347-D)	*Not Available*
US-12	**Mineral resource potential of the Overflow Roadless Area, Rabun County, Georgia and Macon County, North Carolina.** R. P. Koeppen, A. E. Nelson, and M. P. Davis, 1983, scale 1:48,000. (USGS Map MF 1618-A)	*Not Available*

US-13 **Mineral resource potential of the Blood Mountain Roadless Area, Union and Lumpkin counties, Georgia.** R. P. Koeppen, A.E. Nelson, M. K. Armstrong, and A. E. Sabin, 1983, scale 1:30,000.
(USGS Map MF 1503-C) *Not Available*

US-14 **Mineral resource potential of Cohutta Wilderness and Hemp Top Roadless Areas, northern Georgia and southeastern Tennessee.** J.E. Gair, G.C. Gazdik, and M. L. Dunn, Jr., 1982, scale 1:48,000.
(USGS Map MF 1415-C) *Not Available*

US-16 **Mineral resource potential of the Rich Mountain Roadless Area, Fannin and Gilmer counties, Georgia.** M. P. Foose and R. M. Thompson, 1983, scale 1:48,000.
(USGS Map MF 1586-C) *Not Available*

US-17 **Geologic map of the Ellicott Rock Wilderness and Additions, South Carolina, North Carolina, and Georgia.** H. Bell III and R. W. Luce, 1983, scale 1:48,000.
(USGS Map MF 1287-B) *Not Available*

US-18 **Major national highways.** Compiled by USGS, 1987, scale 1:7,500,000 *Not Available*

US-19 **State of Georgia shaded relief map.** USGS, 1970, scale 1:500,000 *$7.00*

US-20 **State of Georgia base map.** USGS, 1966, scale 1:1,000,000 *Not Available*

US-21 **Political map of the world.** USGS, October, 1983, scale 1:40,000,000 *Not Available*

US-22 **Map of the conterminous United States showing routes of the principal explorers from 1501-1844.** F. Bond, General Land Office, 1970, reprinted 1983. *Not Available*

US-23	**Geologic map of the Dahlonega quadrangle, Lumpkin and White counties, Georgia.** A. E. Nelson, 1992, scale 1:24,000. (USGS Map GQ 1705)	*$7.00*
US-24	**Suitability of bedrock for construction stone in the Greenville 1^{o} x 2^{o} quadrangle, South Carolina, Georgia, and North Carolina.** J. P. D=Agastino, J. W. Horton, Jr., A. E. Nelson, and J. W. Clarke, 1993, scale 1:250,000. (USGS Map MF 2125-A)	*$7.00*
US-25	**Hydrologic Unit Map.** 1974. Includes primary drainage basins, streams, and county outlines. Scale 1:500,000, folded.	*$7.00*
US-26	**This Dynamic Planet.** 1994. Includes modern day plate tectonics, earthquake epicenter, and volcanos.	*$7.00*
50001	**Georgia base map.** 1970. Topographic map of Georgia. Scale 1:500,000.	*$7.00*
50002	**Slope map series.** 1975. Eighteen black and white slope maps covering the Atlanta area.	*Not Available*

U. S. FISH AND WILDLIFE SERVICE WETLANDS MAPS

U. S. Fish and Wildlife Service, National Wetlands Inventory (NWI) maps are available as blackline prints for most of Georgia. Coverage can be verified by the Map Sales Coordinator (404) 656-3214. Orders should specify the NWI by the name of the U.S.G.S. 7.5' topographic quadrangle which is used as a base map.

NWI	**National Wetlands Inventory Maps**	*$3.50*

MISCELLANEOUS MAPS

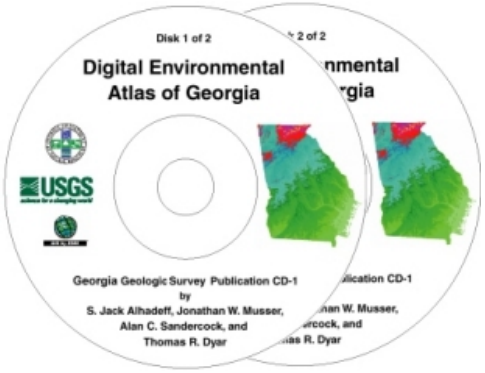
AAPG-1	**Geological highway map, Southeastern region: Alabama, Florida, Georgia, Louisiana, and Mississippi.** 1975, American Association of Petroleum Geologists (Folded).	*$6.00*

OPEN FILE MAPS

Miscellaneous maps covering a wide variety of technical subjects are kept on open file and may be consulted at the Survey. Contact the Information Geologist for specific information (404) 656-3214.

GIS DATA BASES

CD-1 **Digital Environmental Atlas of Georgia.** A two CD-set that shows the following: towns and cities, public lands, state parks, trails and greenways, county boundaries, soils, hydrography, landcover, geologic faults, national forests, ground-water pollution susceptibility, topographic maps as detailed as 1:100,000, and much more. S. J. Alhadeff, J. W. Musser, A. C. Sandercock, and T.R. Dyar. *(Includes the viewing software ArcExplorer Version 1.1).* *$10.00*



The Digital Environmental Atlas will be reprinted early 2001. Call the Map Sales Coordinator to check availability.

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PUBLICATIONS OF THE GEORGIA GEOLOGIC SURVEY-ADDENDUM TO CIRCULAR 1

USGS MAPS *(Limited Supply)*

1. US-27	**Maps showing mines, prospects, and mineral sites in the Tray mountain roadless area and vicinity, northern Georgia.** M. L. Chatman, 1985, scale 1:30,000.	$2.00
2. US-28	**Geology, geochemistry and mineral resource assessment of the Rand Mountain roadless area, Rabun County, Georgia.** H. Bell, III, 1987, scale 1:48,000.	$2.00
3. US-29	**Geohydrology of Sumter, Dooly, Pulaski, Lee, Crisp, and Wilcox Counties, Georgia.** R. C. Vorhis, 1972, scale 1:250,000.	$2.00
4. US-30	**Mineral resource potential, Chattahoochee roadless area, Georgia.** A.E. Nelson, R. Koeppen, R. A. Welsh, Jr., R. W. Mikolajczyk, 1983, scale 1:50,000.	$2.00

NEW PUBLICATIONS

1. B-131	**Geology of Oligocene, Miocene, and Younger deposits in the Coastal area of Georgia.** R.E. Weems, L. E. Edwards, and U.S. Geological Survey, 2001, 127 p.	$8.00
2. B-132	**The Miocene aquitard and the floridan aquifer of the Georgia/South Carolina coast: Geophysical Mapping of Potential Seawater intrusion sites.** Georgia DNR/EPD/Geologic Survey, 2001, 78 p.	$9.00
3. CD-2	**Southeast Georgia 24-County Area Water Supply Services, Alternative Sources to Groundwater Supply.** Georgia DNR/EPD/Geologic Survey, (published in cooperation with Camp Dresser & McKee, Inc.), 2001.	$10.00
4. C-12O	**Ground-water quality in Georgia for 1999.** J.C. Donahue, 2001.	$3.00
5. C-12P	**Ground-water quality in Georgia for 2000.** J.C. Donahue, 2001.	$2.00
6. PR-42	**Domestic well water testing project 2000.** L. Overacre, 2001.	$3.00
7. PR-43	**Pesticide monitoring network.** J.C. Glen, 2001.	$4.00
8. PR-44	**Assessment of environmental effects associated with potential aquifer storage recovery projects in coastal Georgia.** Georgia DNR/EPD, Geologic Survey, 2001.	$4.00
9. PR-45	**Mapping irrigated lands in southwest Georgia.** T. Litts, A. Thomas, and R. Welch, 2001.	$8.00
10. PR-46	**Susceptibility of the Upper Floridan Aquifer in Camden County to salt water intrusion.** S. Rose, 2001.	$6.00

PUBLICATIONS NO LONGER IN PRINT

1. B-104	**A revision of the lithostratigraphic units of the Coastal Plain of Georgia: The Miocene through the Holocene.** P.F. Huddlestun, 1988, 192 p.
2. PR-30	**Integrated source water protection project.** S.L. Grunwald, S.A. Shingleton, and B.R. Carter, 1997, 48 p.

PUBLICATIONS RESTOCKED

1. B-100	**Geology of the northeastern portion of the Dahlonega gold belt.** J.M. German, 1985, 41 p., 2nd printing 1990.	$4.00