GEOLOGIC AND MINERAL RESOURCE MAP INDEX OF GEORGIA

by

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1981

(Second Printing)

(First Printing: Department of Mines, Mining and Geology, 1972)

INFORMATION CIRCULAR **44**

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Introduction

The Geologic and Mineral Resource Map Index of Georgia has been prepared to assist those persons requiring geologic information about the State of Georgia. This index, when used in conjunction with the Annotated Bibliography of Georgia Geology through 1959, Georgia Geological Survey Bulletin 79 and its supplement (Bulletin 79-A, in press) will supply much of the data necessary for planning geologic and geology-related projects.

Acknowledgements

The authors wish to acknowledge previous workers in the preparation of geologic map indices of the State. Leona Boardman, et al, of the U. S. Geological Survey, published a partial index in 1949. For several years, S. M. Pickering, Jr., and J. W. Smith maintained a wall map at the Georgia Geological Survey, showing geologic mapping in the State. It was this map which prompted the preparation of the present index. A modified version of the wall map maintained by Pickering and Smith was published by V. J. Hurst in 1970, in Studies of Appalachian Geology, Central and Southern, by G. W. Fisher, et al.

Explanation

The individual sheets of this index are arranged by the decade in which the geologic maps were published, or in the case of unpublished works, the year in which the mapping was done. This arrangement was considered necessary to enable all of the maps to be shown in a relatively uncluttered manner. The sheet showing geologic mapping for each decade is followed by a sheet showing mineral resource mapping for that decade. (The decades 1951-1960 and 1961-1970 are divided into five year periods due to the large number of maps plotted. There is, however, only one mineral resource map for each decade.) The distinction between geologic mapping and mineral resource mapping was made rather arbitrarily at times, depending on the amount and type of previous work in the same area. Geologic and related maps are outlined in red; mineral resource maps are shown by blue outline. Geochemical, geophysical, and tectonic maps are shown on the geologic index sheet and are marked by an asterisk in the references.

To determine all the geologic or mineral resource mapping available for a particular area, it is necessary to locate the area on each of the indices in this publication. That is, an area must be checked for all decades. Map references are listed on the page facing each index sheet.

It is the desire of the authors to make this index as complete and up-to-date as possible. A blank map is included at the end of this circular in the hope that omissions, noted by users of this work, will be marked on this sheet, referenced, and sent to the Director, Georgia Department of Mines, Mining and Geology, 19 Hunter Street, SW, Atlanta, Georgia 30334. In addition, the blank map should be used to indicate new maps, published or unpublished, which are completed during the year. At the time of this printing, it is planned that up-date sheets will be prepared yearly, and will be available on request.

1. Hayes, C. W., 1892, Geology of northeastern Alabama: Ala. Geol. Surv. Bull. 4, 89 p., 1:365,000 (distorted).

2. _____, 1894, Ringgold Atlas sheet: U. S. G. S. Geological Atlas of the U. S., Folio 2, 3 p., 1:125,000.

   Reproduced in McCallie, S. W., 1908, Fossil iron ore deposits of Georgia: Ga. Geol. Surv. Bull. 17.

3. _____, 1894, Geology of a portion of the Coosa Valley: Geol. Soc. America, v. 5, pp. 465-480, Approx. 1:170,000.

4. _____, 1895, Description of the Stevenson sheet: U. S. G. S. Geological Atlas of the U. S., Folio 19, 4 p., 1:125,000.

   A portion reproduced in McCallie, S. W., 1908, Fossil iron ore deposits of Georgia: Ga. Geol. Surv. Bull. 17.

5. _____, 1895, The geological relations of the southern Appalachian bauxite deposits: AIME Trans., v. 24, pp. 243-254, 1:250,000.

6. _____ (assisted by Campbell, M. R. and Brooks, A. H.), 1890-1895, Cartersville Atlas sheet: U. S. G. S. Geological Atlas of the U. S., unpublished folio, 1:125,000.

7. _____, 1886-89, Dalton Atlas sheet: U. S. G. S. Geological Atlas of the U. S., unpublished folio, 1:125,000.

8. _____, 1886-95, Tallapoosa Atlas sheet: U. S. G. S. Geological Atlas of the U. S., unpublished folio, 1:125,000.

9. Heilprin, Angelo, 1884, The Tertiary geology of the eastern and southern United States: Natural Science Philadelphia Jour., 2nd ser., v. 9, pp. 115-154, Approx. 1:1,000,000.

   _____, 1884, also in Contributions to the Tertiary geology and paleontology of the United States, pp. 1-40, Philadelphia.

10. Spencer, J. W. W., 1891, A general or preliminary geological report on southwest Georgia; and geological report on Polk County: Ga. Geol. Surv., 1st Report of Progress, 128 p., Approx. 1:160,000.

11. _____, 1893, The Paleozoic group: Ga. Geol. Surv., 406 p., Approx. 1:312,000.

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Henderson, J. T., 1885, The Commonwealth of Georgia: J. P. Harrison & Co., Atlanta, Approx. 1:2,500,000.

Janes, T. P., 1876, Handbook of the State of Georgia: 2nd edition, Atlanta, Russell Brothers, New York, 256 p.

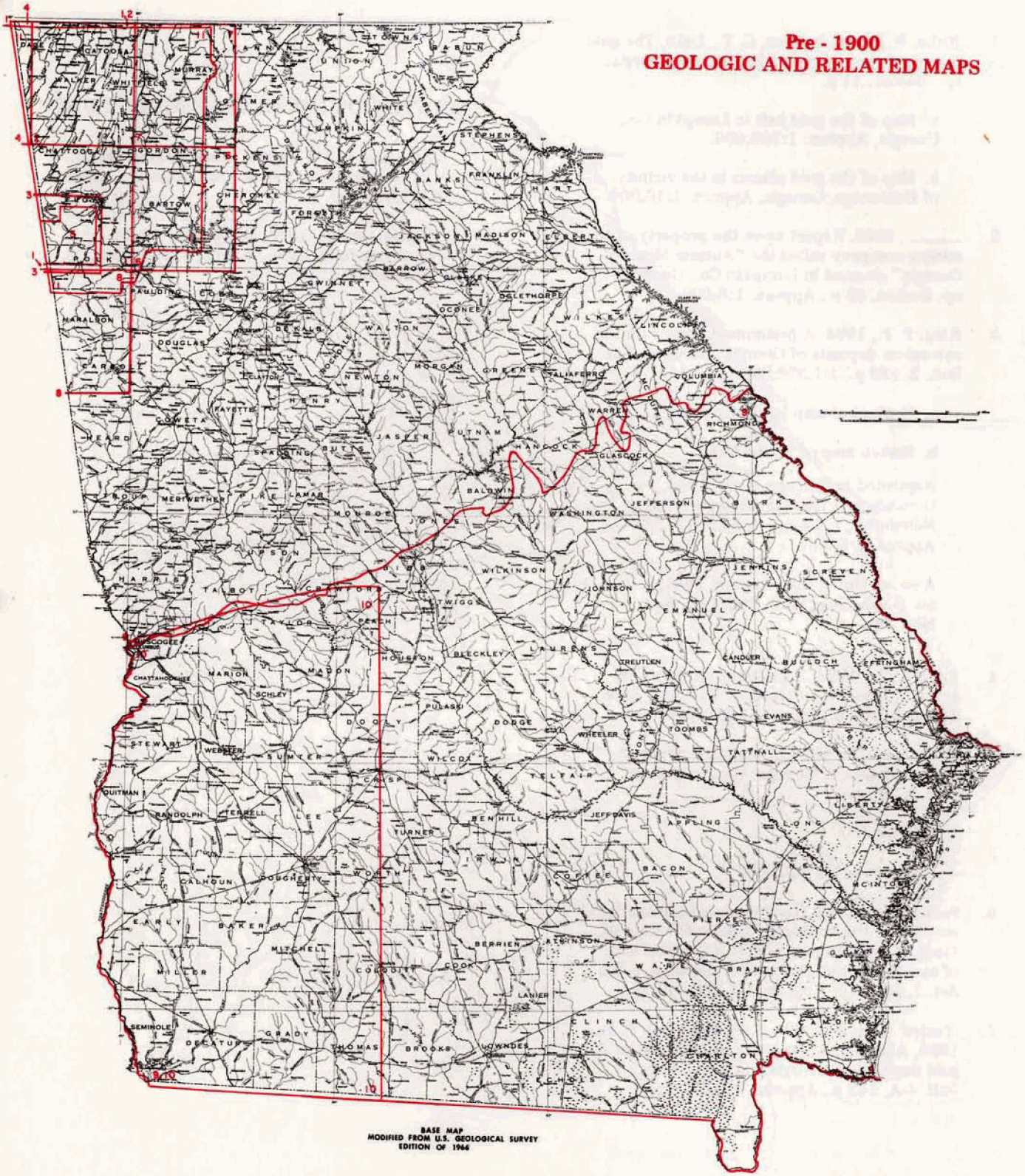
   Geological Survey of the State by George Little, 1:63,360.

Stephenson, M. F., 1871, Geology and mineralogy of Georgia: 244 p., Atlanta, Globe Publishing Co., Approx. 1:1,120,000.

Tanner, H. S., 1825, Georgia and Alabama (map): Approx. 1:1,000,000.

White, George, 1849, Statistics of the State of Georgia: 624 p., Savannah, Approx. 1:1,120,000. Geological features by W. T. Williams.

Pre - 1900
GEOLOGIC AND RELATED MAPS



BASE MAP
MODIFIED FROM U.S. GEOLOGICAL SURVEY
EDITION OF 1966

1. Blake, W. P. and Jackson, C. T., 1859, The gold placers of the vicinity of Dahlonega, Georgia: np, Boston, 11 p.

   a. Map of the gold belt in Lumpkin Co., Georgia, Approx. 1:100,000.

   b. Map of the gold placers in the vicinity of Dahlonega, Georgia, Approx. 1:16,000.

2. _____, 1860, Report upon the property of the mining company called the "Auraria Mines of Georgia" situated in Lumpkin Co., Georgia: np, Boston, 63 p., Approx. 1:8,000.

3. King, F. P., 1894, A preliminary report on the corundum deposits of Georgia: Ga. Geol. Surv. Bull. 2, 133 p., 1:1,250,000.

   a. Geological map of North Georgia.

   b. Sketch map of Laurel Mine.

   Reprinted in Furcron, A. S., 1960, Corundum in Georgia: Georgia Mineral Newsletter, v. 13, no. 4, pp. 67-177, Approx. 1:3,000.

   Also see Hunter and Rankin, 1941, no. 8-Min. Res.; Pratt, 1901, no. 6-Min. Res.

4. Ladd, G. E., 1898, A preliminary report on a part of the clays of Georgia: Ga. Geol. Surv. Bull. 6-A, 204 p., Approx. 1:2,100,000.

5. McCallie, S. W., 1894, A preliminary report on the marbles of Georgia: Ga. Geol. Surv. Bull. 1, 126 p.

   a. 1:63,360

   b. Approx. 1:1,200,000

6. Peck, Jacob, 1833, Geological and mineralogical account of the mining districts in the state of Georgia--western part of North Carolina and of east Tennessee: Amer. Jour. Science, v. 23, Art. 1, pp. 1-10. Approx. 1:1,150,000.

7. Yeates, W. S., McCallie, S. W. and Kind, F. P., 1896, A preliminary report on a part of the gold deposits of Georgia: Ga. Geol. Surv. Bull. 4-A, 542 p., Approx. 1:1,400,000.

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Pre - 1900
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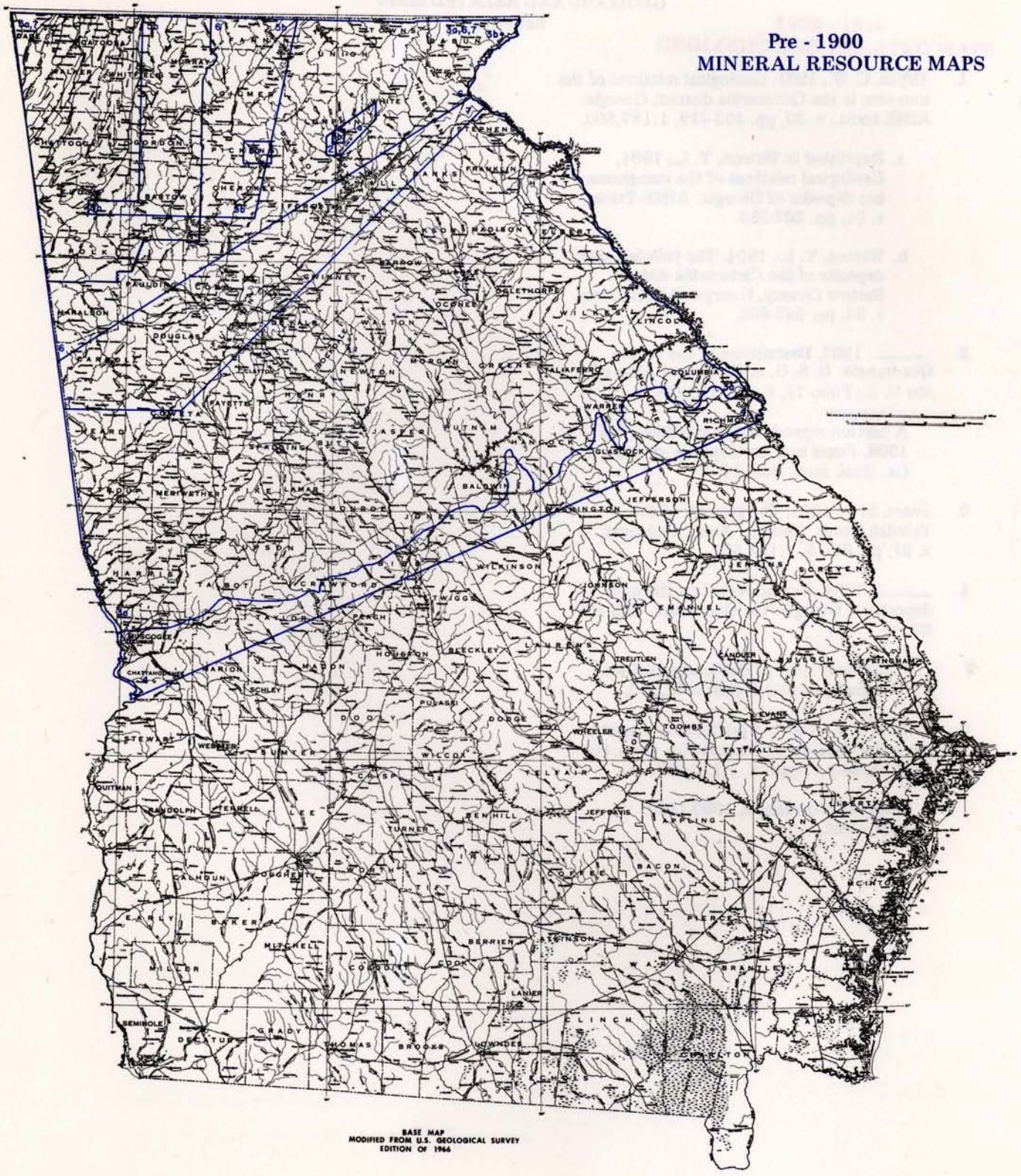

BASE MAP
MODIFIED FROM U.S. GEOLOGICAL SURVEY
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1900 - 1910
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1. Hayes, C. W., 1901, Geological relations of the iron-ores in the Cartersville district, Georgia: AIME trans., v. 30, pp. 403-419, 1:187,500.

   a. Reprinted in Watson, T. L., 1904, Geological relations of the manganese ore deposits of Georgia: AIME Trans., v. 34, pp. 207-253.

   b. Watson, T. L., 1904, The yellow-ocher deposits of the Cartersville district, Bartow County, Georgia: AIME Trans., v. 34, pp. 643-666.

2. _____, 1902, Description of the Rome Quadrangle: U. S. G. S. Geological Atlas of the U. S., Folio 78, 6 p., 1:125,000.

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3. Jones, S. P., 1901, The geology of the Tallulah Gorge, Georgia: Amer. Geologist, v. 27, pp. 67-75, 1:187,500.

4. _____, 1909, Second report on the gold deposits of Georgia: Ga. Geol. Surv. Bull 19, 283 p.

   Preliminary map of Dahlonega District, Georgia by Arthur Keith, 1:72,000.

5. Watson, T. L., 1906, A preliminary report on the ocher deposits of Georgia: Ga. Geol. Surv. Bull. 13, 81 p., Approx. 1:170,000.

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1900 - 1910
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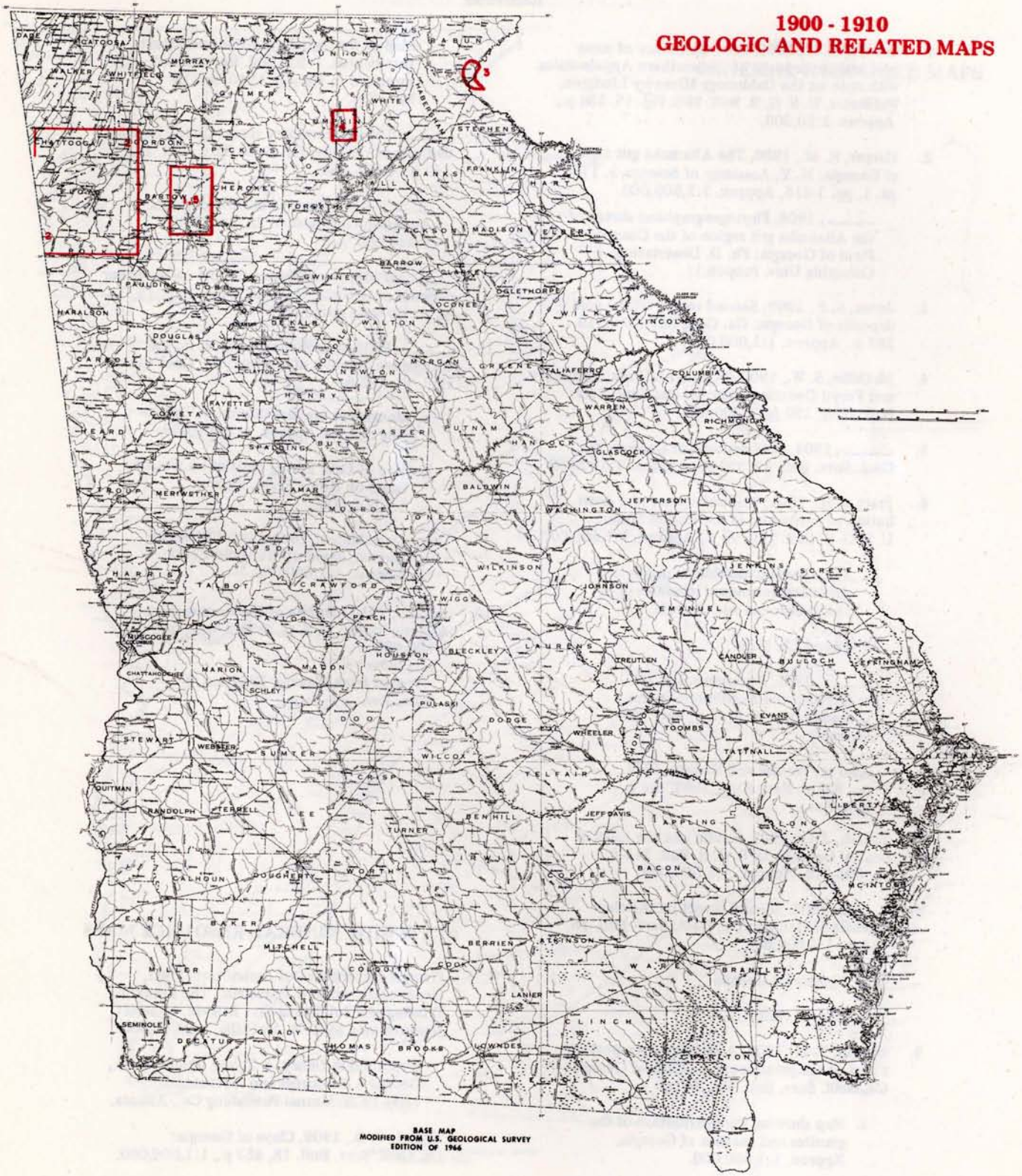

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1. Graton, L. C., 1906, Reconnaissance of some gold and tin deposits of the southern Appalachains with note on the Dahlonega Mines by Lindgren, Waldemar, U. S. G. S. Bull. 293, Fig. 15, 134 p., Approx. 1:20,000.

2. Harper, R. M., 1906, The Altamaha grit region of Georgia: N. Y. Academy of Science, v. 17, pt. 1, pp. 1-415, Approx. 1:2,500,000.

   _____, 1906, Phytogeographical sketch of the Altamaha grit region of the Coastal Plain of Georgia: Ph. D. Dissertation, Columbia Univ. (unpub.).

3. Jones, S. P., 1909, Second report on the gold deposits of Georgia: Ga. Geol. Surv. Bull. 19, 283 p., Approx. 1:1,000,000.

4. McCallie, S. W., 1900, Iron ores of Polk, Bartow, and Floyd Counties, Georgia: Ga. Geol. Surv. Bull. 10-A, 190 p., 1:300,000.

5. _____, 1904, Coal deposits of Georgia: Ga. Geol. Surv. Bull. 12, 121 p., Approx. 1:160,000.

6. Pratt, J. H., 1901, The occurrence and distribution of corundum in the United States: U. S. G. S. Bull. 180, 98 p., Approx. 1:1,500,000.

   a. Map showing location of peridotite rocks and corundum localities of North Carolina and Georgia.

   b. Laurel Ck. Mine

   _____, 1906, Corundum and its occurrence and distribution in the United States: U. S. G. S. Bull. 269 (revised).

   Also see Hunter and Rankin, 1941, no. 8-Min. Res.; King, 1894, no. 4-Min. Res.

7. Veatch, J. O., 1907, Kaolin and fire clays of Central Georgia: U. S. G. S. Bull. 315-I, pp. 303-314, Approx. 1:5,000,000.

8. _____, 1909, Second report on the clay deposits of Georgia: Ga. Geol. Surv. Bull. 18, 453 p., 1:1,000,000.

   a. Northwest Georgia

   b. Coastal Plain

9. Watson, T. L., 1902, A preliminary report on a part of the granites and gneisses of Georgia: Ga. Geol. Surv. Bull. 9-A, 367 p.

   a. Map showing the distribution of the granites and gneisses of Georgia, Approx. 1:1,600,000.

   b. Map of the Dekalb-Rockdale-Gwinnett granite and granite-gneiss area, 1:300,000.

   c. Map of the Oglethorpe-Madison-Elbert granite area, 1:300,000. Revised and reprinted in Watson, 1910, no. 13-Min. Res.

10. _____, 1904, Preliminary report on the bauxite deposits of Georgia: Ga. Geol. Surv. Bull. 11, 169 p., 1:375,000.

    _____, 1901, Georgia bauxite deposits: American Geologist, v. 28, pp. 25-45, 1:440,000.

11. _____, 1906, A preliminary report on the ocher deposits of Georgia: Ga. Geol. Surv. Bull. 13, 81 p., no scale given.

12. _____, 1908, A preliminary report on the manganese deposits of Georgia: Ga. Geol. Surv. Bull. 14, 195 p.

    a. Manganese ore distribution in Cartersville district, Approx. 1:1,000,000.

    b. Map of Cave Spring District by Watson, based on Rome Folio, Approx. 1:1,000,000.

    c. Geol. Map of Tunnel Hill District by Watson, based on Ringgold Folio, Approx. 1:1,000,000.

13. _____, 1910, Granite of the southeastern Atlantic States: U. S. G. S. Bull. 426, 282 p., 1:500,000.

    Revised from Watson, 1902, no. 9-Min. Res.

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1900 - 1910
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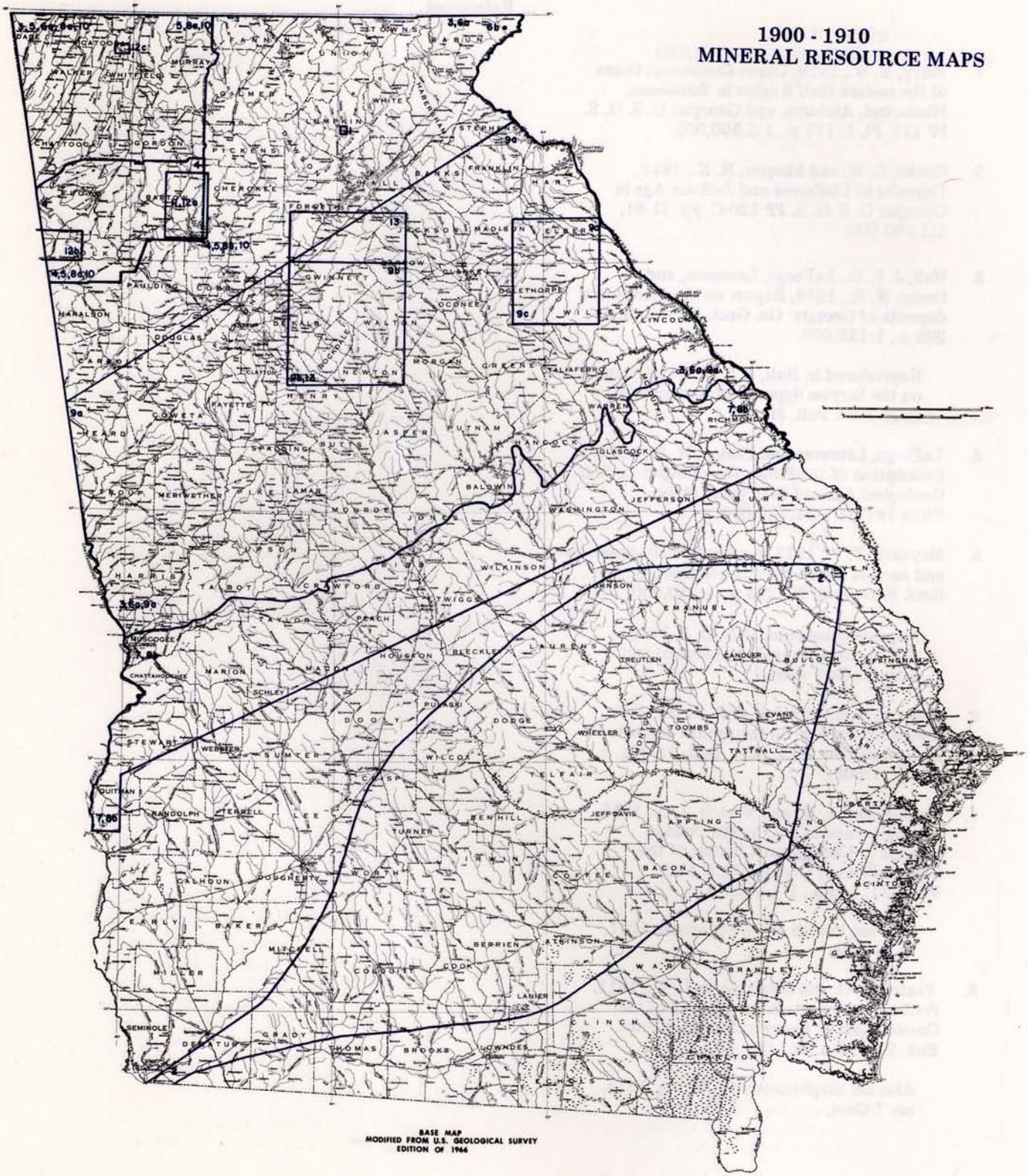

BASE MAP
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1. Berry, E. W., 1919, Upper Cretaceous floras of the eastern Gulf Region in Tennessee, Mississippi, Alabama, and Georgia: U. S. G. S. PP 112, Pl. 1, 177 p., 1:2,500,000.

2. Cooke, C. W. and Shearer, H. K., 1919, Deposits of Claiborne and Jackson Age in Georgia: U. S. G. S. PP 120-C, pp. 41-81, 1:1,000,000.

3. Hull, J. P. D., LaForge, Laurence, and Crane, W. R., 1919, Report on the manganese deposits of Georgia: Ga. Geol. Surv. Bull. 35, 295 p., 1:125,000.

   Reproduced in Hull, J. P. D., 1920, Report on the barytes deposits of Georgia: Ga. Geol. Surv. Bull. 36.

4. LaForge, Laurence and Phalen, W. C., 1913, Description of the Ellijay Quadrangle: U. S. G. S. Geological Atlas of the United States, Folio 187, 18 p., 1:125,000.

5. Maynard, T. P., 1912, A report on the limestone and cement materials of North Georgia: Ga. Geol. Surv. Bull. 27, 293 p., 1:250,000.

   Map compiled from U. S. G. S. Folios (Ft. Payne, Ringgold, and Rome) and author's field notes.

6. Shearer, H. R. and Hull, J. P. D., 1918, A preliminary report on the pyrites deposits of Georgia: Ga. Geol. Surv. Bull. 33, Fig. 3, 229 p., 1:600.

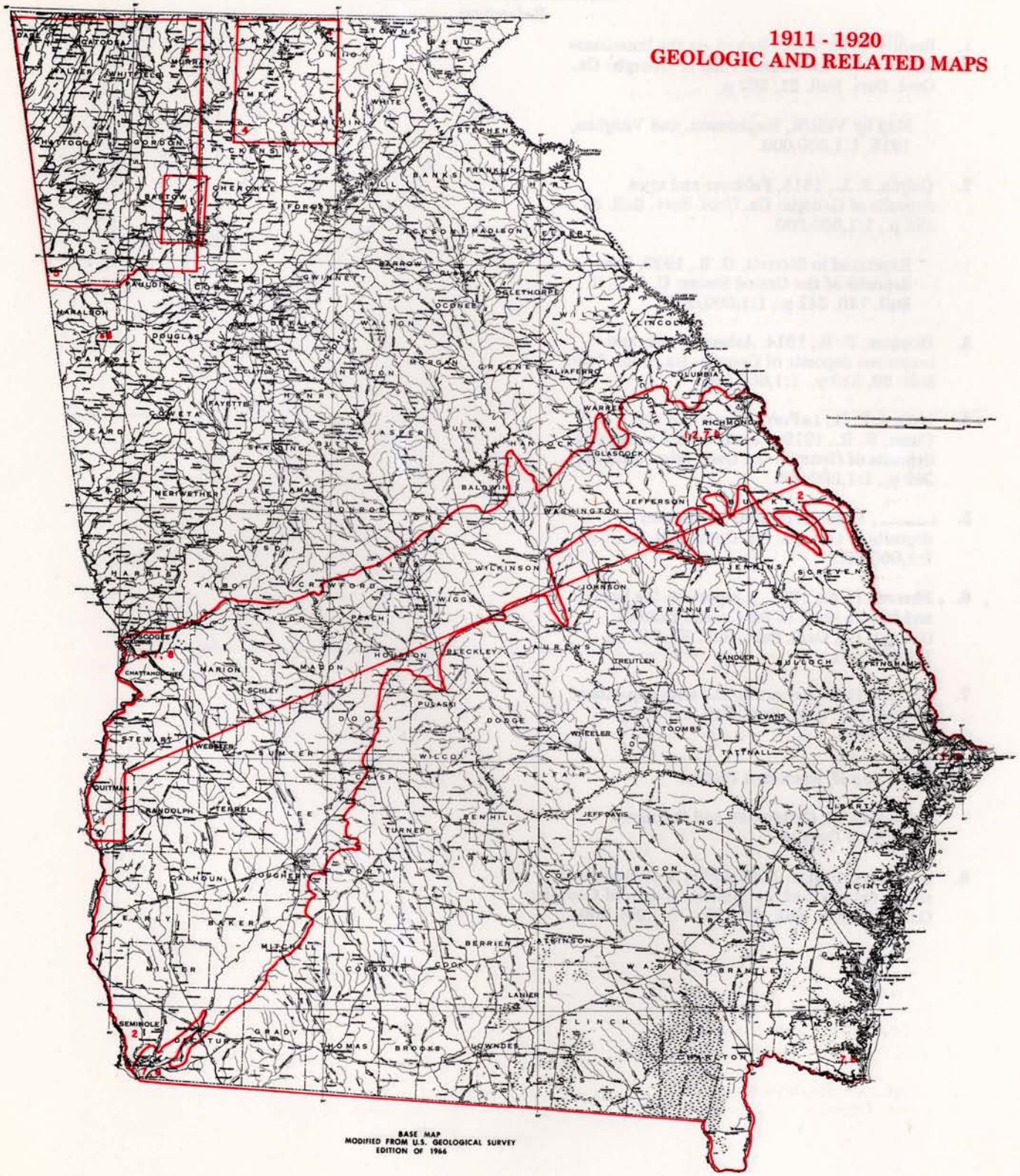
7. Stephenson, L. W. and Veatch, J. O., 1915, Geologic maps of the Coastal Plain of Georgia in Underground Waters of the Coastal Plain of Georgia: U. S. G. S. WSP 341, 539 p., 1:1,000,000.

   Also see Veatch and Stephenson, 1911, no. 8-Geol.

8. Veatch, J. O. and Stephenson, L. W., 1911, Preliminary report on the geology of the Coastal Plain of Georgia: Ga. Geol. Surv. Bull. 26, 466 p., 1:1,000,000.

   Also see Stephenson and Veatch, 1915, no. 7-Geol.

1911 - 1920
GEOLOGIC AND RELATED MAPS



1911 - 1920
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1. Brantly, J. E., 1916, Report on the limestones and marls of the Coastal Plain of Georgia: Ga. Geol. Surv. Bull. 21, 300 p.

   Map by Veatch, Stephenson, and Vaughan, 1915, 1:1,000,000.

2. Galpin, S. L., 1915, Feldspar and mica deposits of Georgia: Ga. Geol. Surv. Bull. 30, 192 p., 1:1,000,000.

   Reprinted in Sterrett, D. B., 1923, Mica deposits of the United States: U. S. G. S. Bull. 740, 342 p., 1:1,000,000.

3. Hopkins, D. B., 1914, Asbestos, talc, and soapstone deposits of Georgia: Ga. Geol. Surv. Bull. 29, 319 p., 1:1,000,000.

4. Hull, J. P. D., LaForge, Laurence, and Crane, W. R., 1919, Report on the manganese deposits of Georgia: Ga. Geol. Surv. Bull. 36, 295 p., 1:1,000,000.

5. _____, 1920, Report on the barytes deposits of Georgia: Ga. Geol. Surv. Bull. 36, 1:1,000,000.

6. Shearer, H. K., 1917, A report on the bauxite and fuller's earth of the Coastal Plain of Georgia: Ga. Geol. Surv. Bull. 31, 340 p., 1:1,000,000.

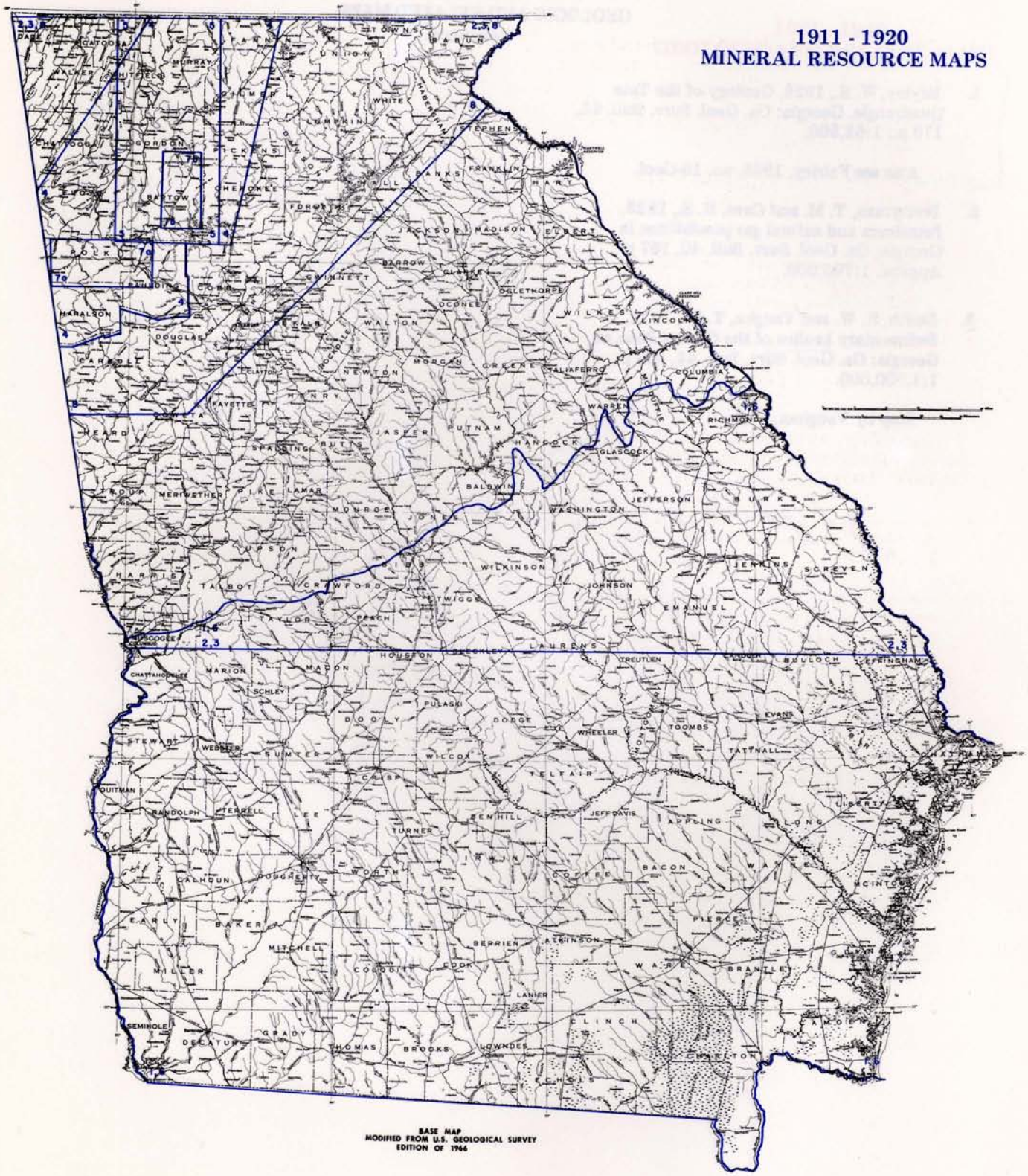
7. _____, 1918, Report on the slate deposits of Georgia: Ga. Geol. Surv. Bull. 34, 192 p., 1:125,000.

   a. Map II, Rockmart District

   b. Map III, Cartersville and Fairmont Slate District

8. _____and Hull, J. P. D., 1918, A preliminary report on a part of the pyrites deposits of Georgia: Ga. Geol. Surv. Bull. 33, 229p., 1:1,000,000.

1911 - 1920
MINERAL RESOURCE MAPS



BASE MAP
MODIFIED FROM U.S. GEOLOGICAL SURVEY
EDITION OF 1966

1921 - 1930
GEOLOGIC AND RELATED MAPS
References

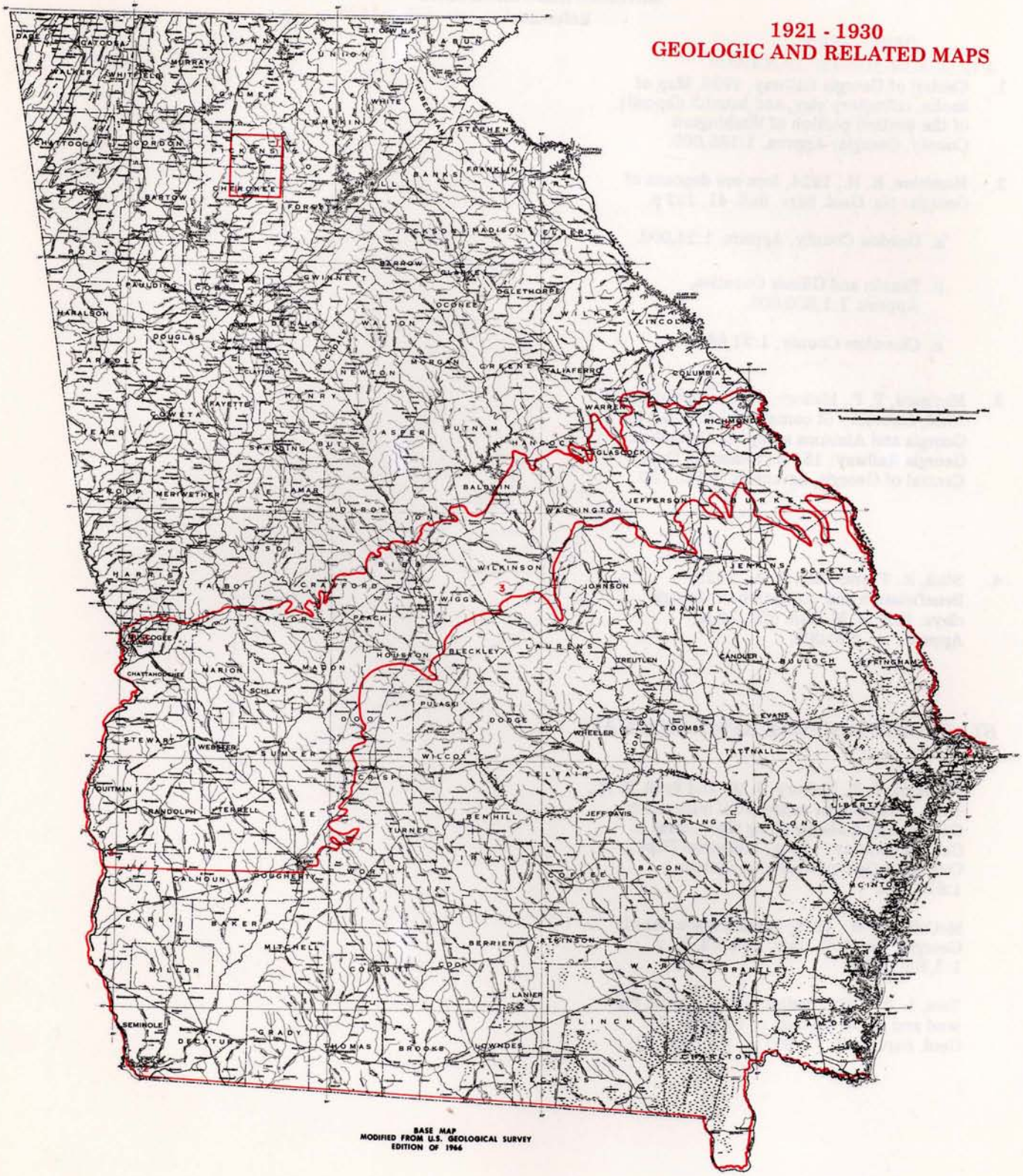
1. Bayley, W. S., 1928, Geology of the Tate Quadrangle, Georgia: Ga. Geol. Surv. Bull. 43, 170 p., 1:62,500.

Also see Fairley, 1965, no. 10-Geol.

2. Prettyman, T. M. and Cave, H. S., 1923, Petroleum and natural gas possibilities in Georgia: Ga. Geol. Surv. Bull. 40, 167 p., Approx. 1:700,000.

3. Smith, R. W. and Vaughn, T. W., 1929, Sedimentary kaolins of the Coastal Plain of Georgia: Ga. Geol. Surv. Bull. 44, 482 p., 1:1,000,000.

Map by Vaughan, et al.



BASE MAP
MODIFIED FROM U.S. GEOLOGICAL SURVEY
EDITION OF 1966

1921 - 1930
MINERAL RESOURCE MAPS
References

1. Central of Georgia Railway, 1923, Map of kaolin, refractory clay, and bauxite deposits of the western portion of Washington County, Georgia: Approx. 1:185,000.

2. Haseltine, R. H., 1924, Iron ore deposits of Georgia: Ga. Geol. Surv. Bull. 41, 222 p.

   a. Gordon County, Approx. 1:24,000.

   b. Fannin and Gilmer Counties, Approx. 1:1,800,000.

   c. Cherokee County, 1:31,680.

3. Maynard, T. P., Mallory, J. M., and Stull, R. T., 1923, Directory of commercial minerals in Georgia and Alabama along the Central of Georgia Railway: 154 p., Industrial Dept., Central of Georgia, Savannah, 1:126,720.

4. Stull, R. T. and Bole, G. A., 1926, Beneficiation and utilization of Georgia clays: U. S. B. M. Bull. 252, 72 p., Approx. 1:1,600,000.

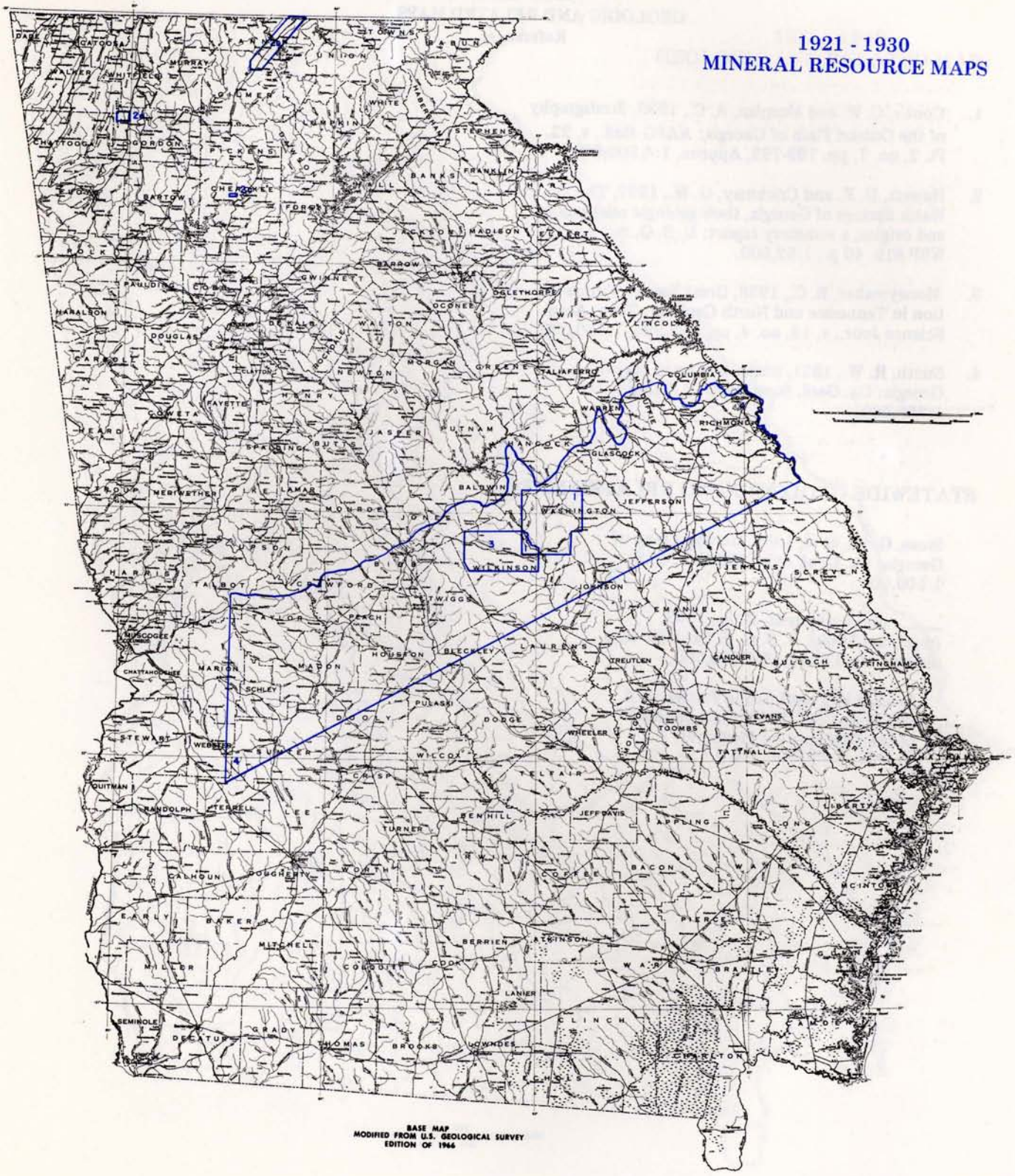
STATEWIDE MINERAL RESOURCE MAPS

Maynard, T. P., Mallory, J. M., and Stull, E. M., 1923, Directory of commercial minerals in Georgia and Alabama along the Central of Georgia Railway: 154 p., Industrial Dept., Central of Georgia Railway, Savannah, 1:633,600.

McCallie, S. W., 1926, Mineral resources of Georgia: Ga. Geol. Surv. Bull. 23, Pl. 2, 1:3,300,000.

Teas, L. P., 1921, Preliminary report on the sand and gravel deposits of Georgia: Ga. Geol. Surv. Bull. 37, 392 p., 1:1,500,000.

1921 - 1930
MINERAL RESOURCE MAPS



1931 - 1940
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1. Cooke, C. W. and Munyan, A. C., 1938, Stratigraphy of the Coastal Plain of Georgia: AAPG Bull., v. 22, Pt. 2, no. 7, pp. 789-793, Approx. 1:4,500,000.

2. Hewett, D. F. and Crickmay, G. W., 1937, The Warm Springs of Georgia, their geologic relations and origins, a summary report: U. S. G. S. WSP 819, 40 p., 1:62,500.

3. Moneymaker, B. C., 1938, Great Smoky Formation in Tennessee and North Carolina: Tenn. Acad. Science Jour., v. 13, no. 4, pp. 283-295, 1:750,000.

4. Smith, R. W., 1931, Shales and brick clays of Georgia: Ga. Geol. Surv. Bull. 45, 348 p., 1:250,000.

STATEWIDE GEOLOGIC AND RELATED MAPS

Stose, G. W., et al, 1939, Geologic map of Georgia: Ga. Geol. Surv. and U. S. G. S., 1:500,000.

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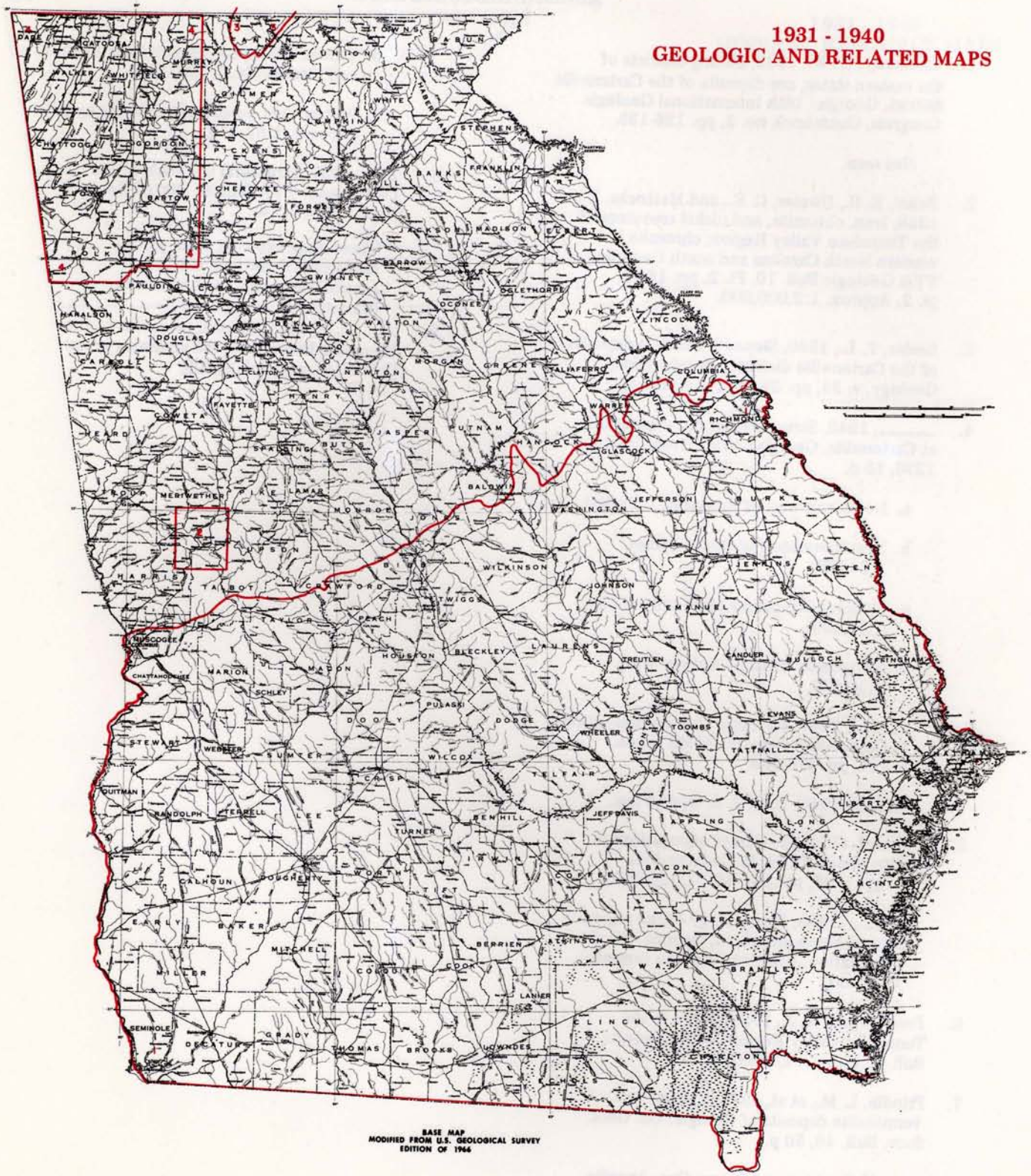
1931 - 1940
GEOLOGIC AND RELATED MAPS



BASE MAP
MODIFIED FROM U.S. GEOLOGICAL SURVEY
EDITION OF 1946

1931 - 1940
MINERAL RESOURCE MAPS
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1. Crickmay, G. W., 1932, Mining districts of the eastern states; ore deposits of the Cartersville district, Georgia: 16th International Geologic Congress, Guidebook no. 2, pp. 126-139.

   Not seen.

2. Eckel, E. C., Hunter, C. E., and Mattocks, P.W., 1938, Iron, chromite, and nickel resources of the Tennessee Valley Region; chromite in western North Carolina and north Georgia: TVA Geologic Bull. 10, Pt. 2, pp. 18-20, pl. 2, Approx. 1:2,000,000.

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4. _____, 1940, Structure and ore deposition at Cartersville, Georgia: AIME Tech. Pub. 1226, 18 p.

   a. North and west of Emerson, 1:31,680.

   b. New Riverside and Bertha Mines, 1:24,000.

   c. Dobbins Manganese Mine and vicinity, 1:21,000.

   d. Manganese Mines of Aubrey area, 1:30,000.

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7. Prindle, L. M., et al, 1935, Kyanite and vermiculite deposits of Georgia: Ga. Geol. Surv. Bull. 46, 50 p.

   a. Habersham and Rabun Cos., kyanite, 1:160,000.

   b. Towns, Union and Fannin Cos., kyanite and vermiculite, 1:250,000.

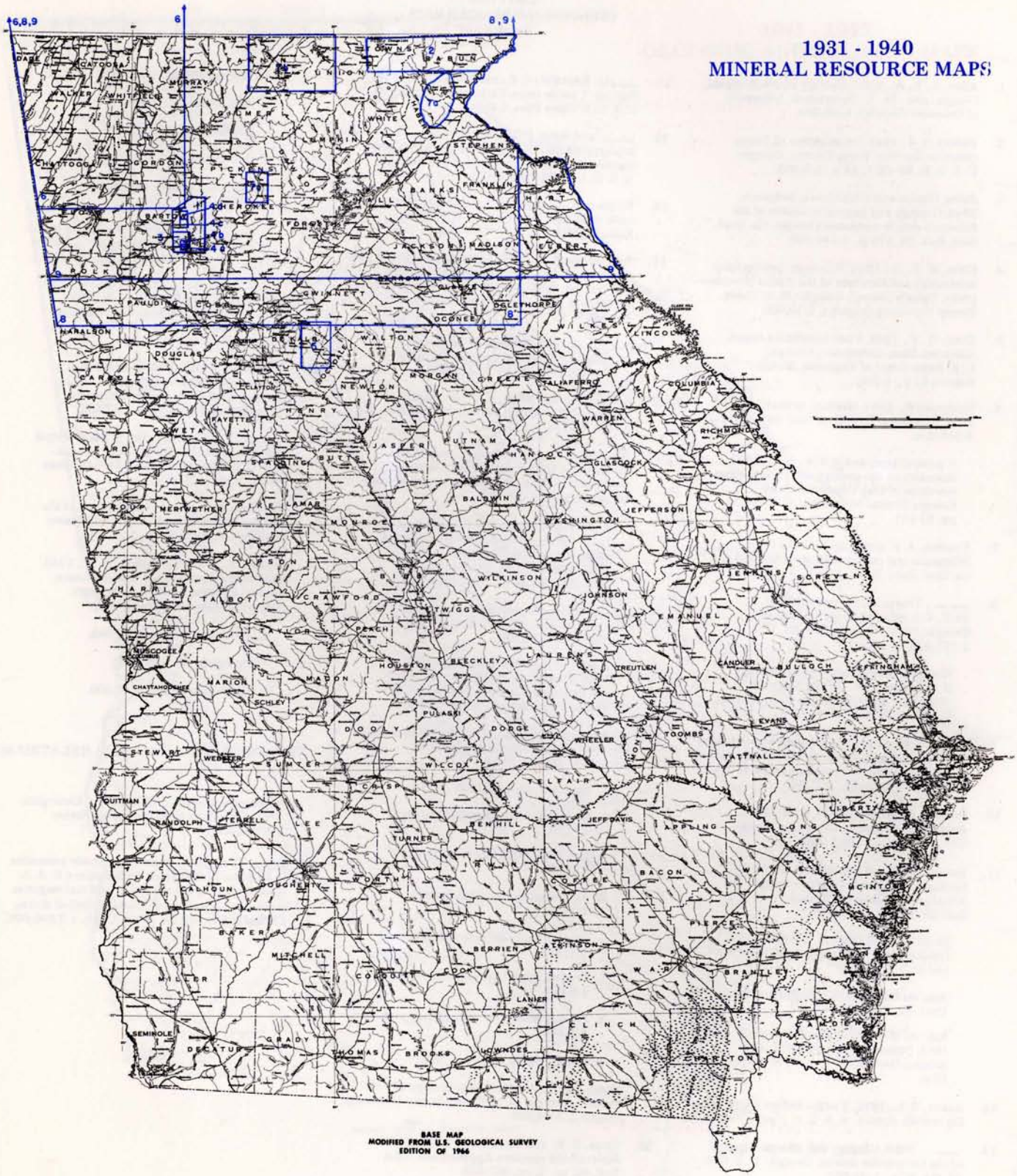
   c. Part of Tate quadrangle showing kyanite deposits, 1:63,360.

8. TVA, 1937, Structural materials of the TVA region: TVA Bull. 6, Div. of Geol., 25 p., 1:2,500,000.

   Three maps showing sand, gravel, sandstone, limestone, marble, granite, slate, and chert locations in northwest Georgia.

9. U. S. G. S., 1933, Mineral resources of the Tennessee River basin and adjoining areas: U. S. G. S. map, 1:500,000.

1931 - 1940
MINERAL RESOURCE MAPS



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    e. Etowah mine, Dawson and Lumpkin, 1:1,200.

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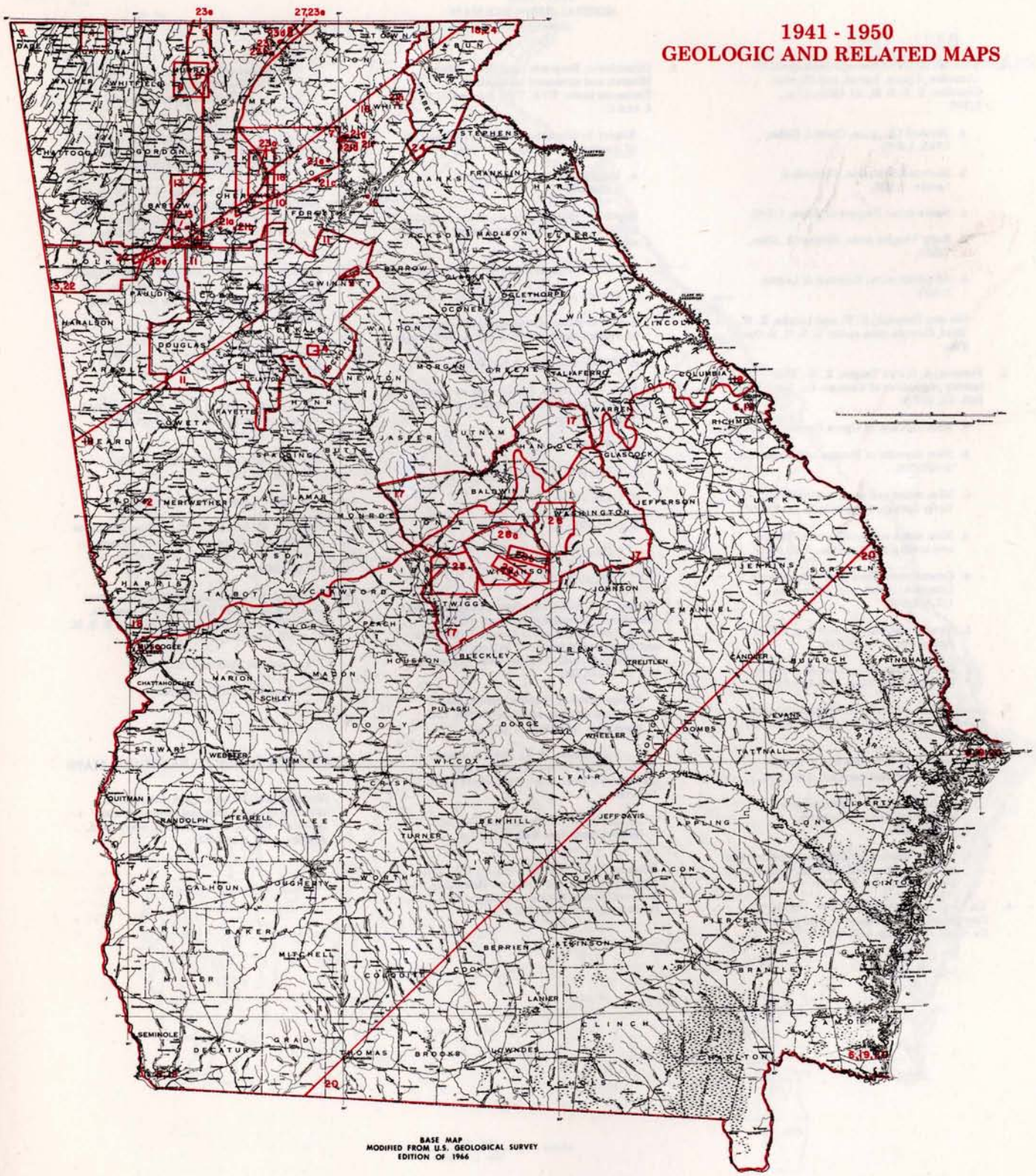

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   c. Battle mine, Klepper & Allen, 1:500.

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   e. General sheet mica producing areas in Lumpkin, Union, and Towns Cos., 1:3,600,000.

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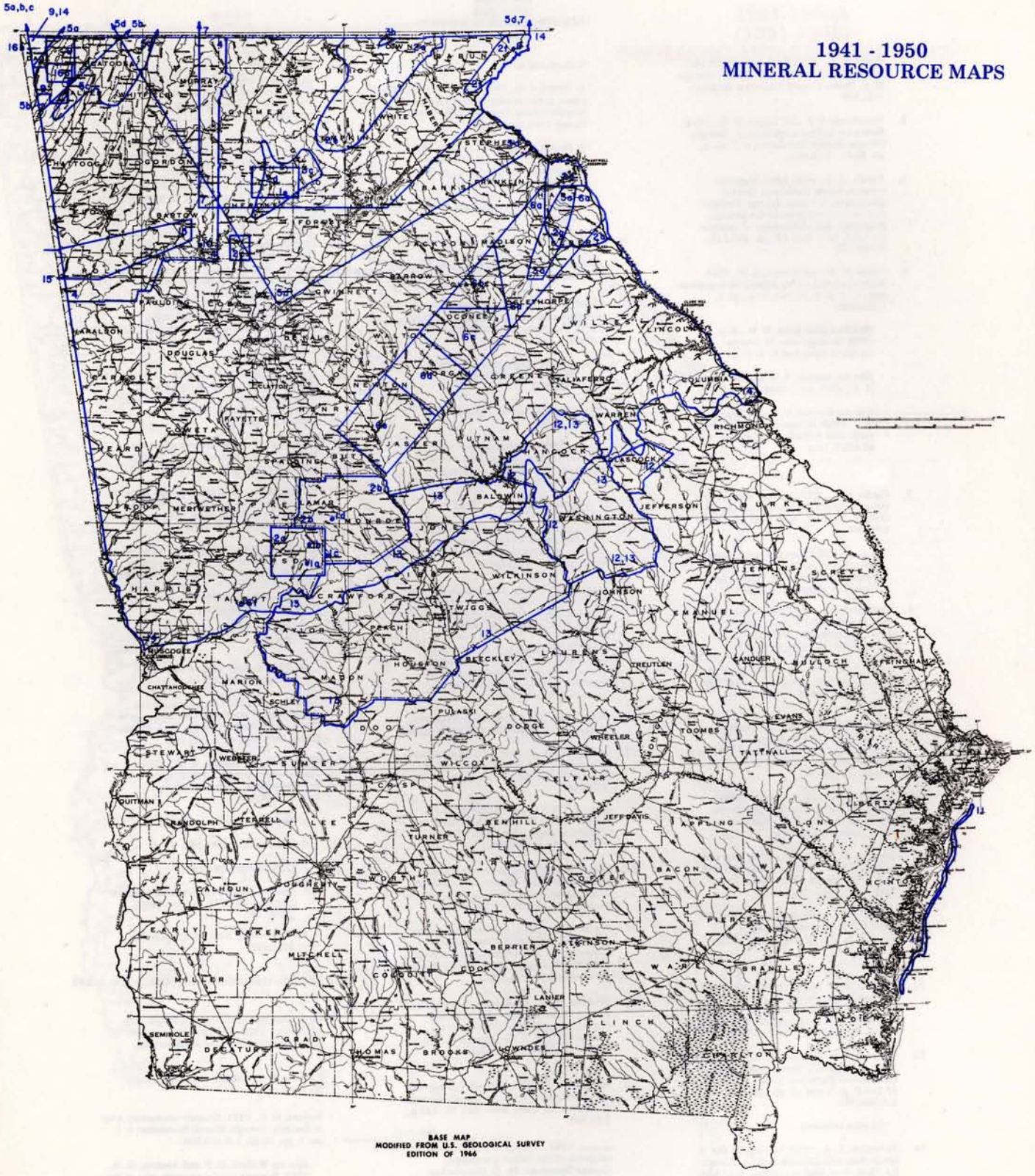
1941 - 1950
MINERAL RESOURCE MAPS



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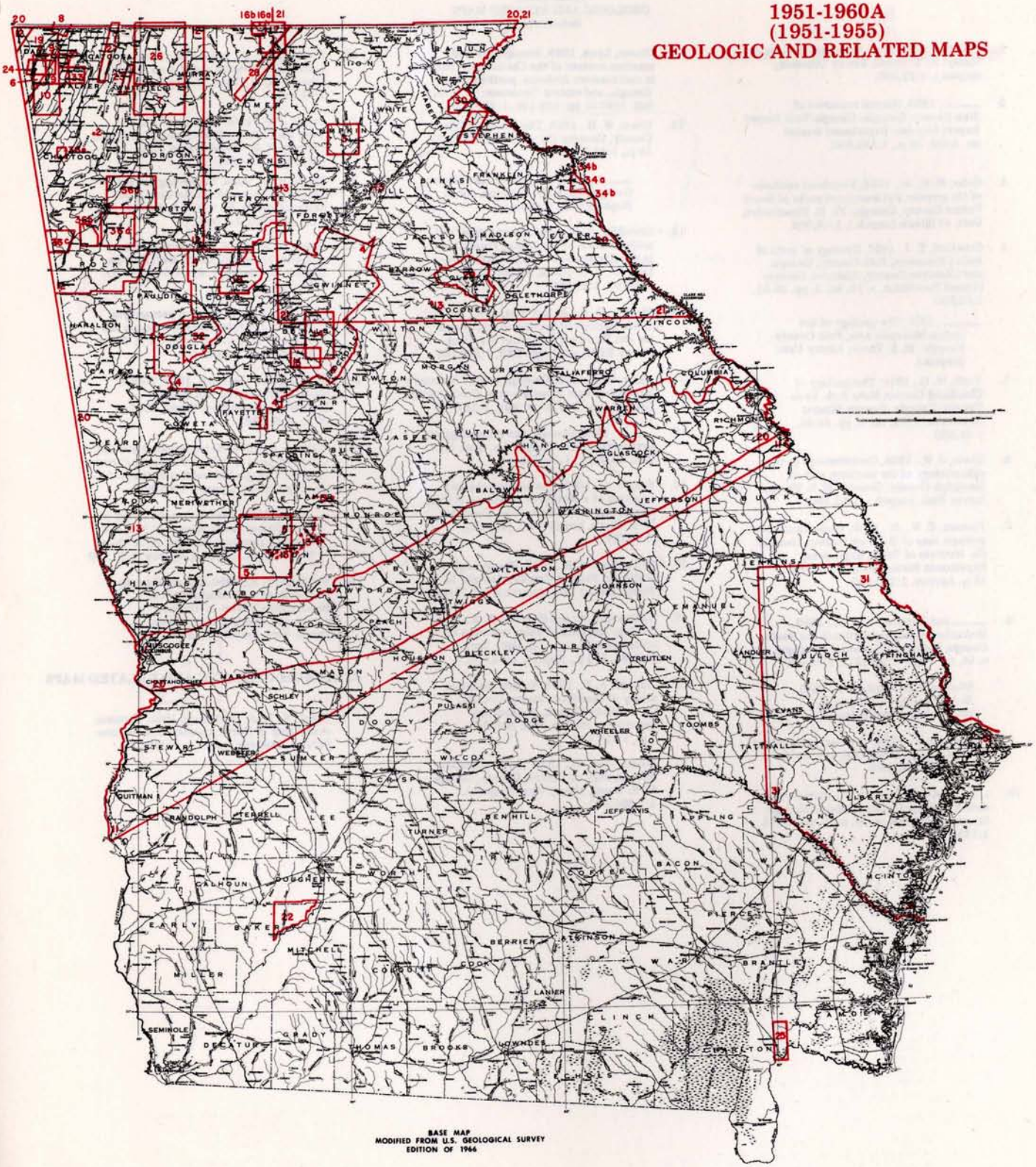

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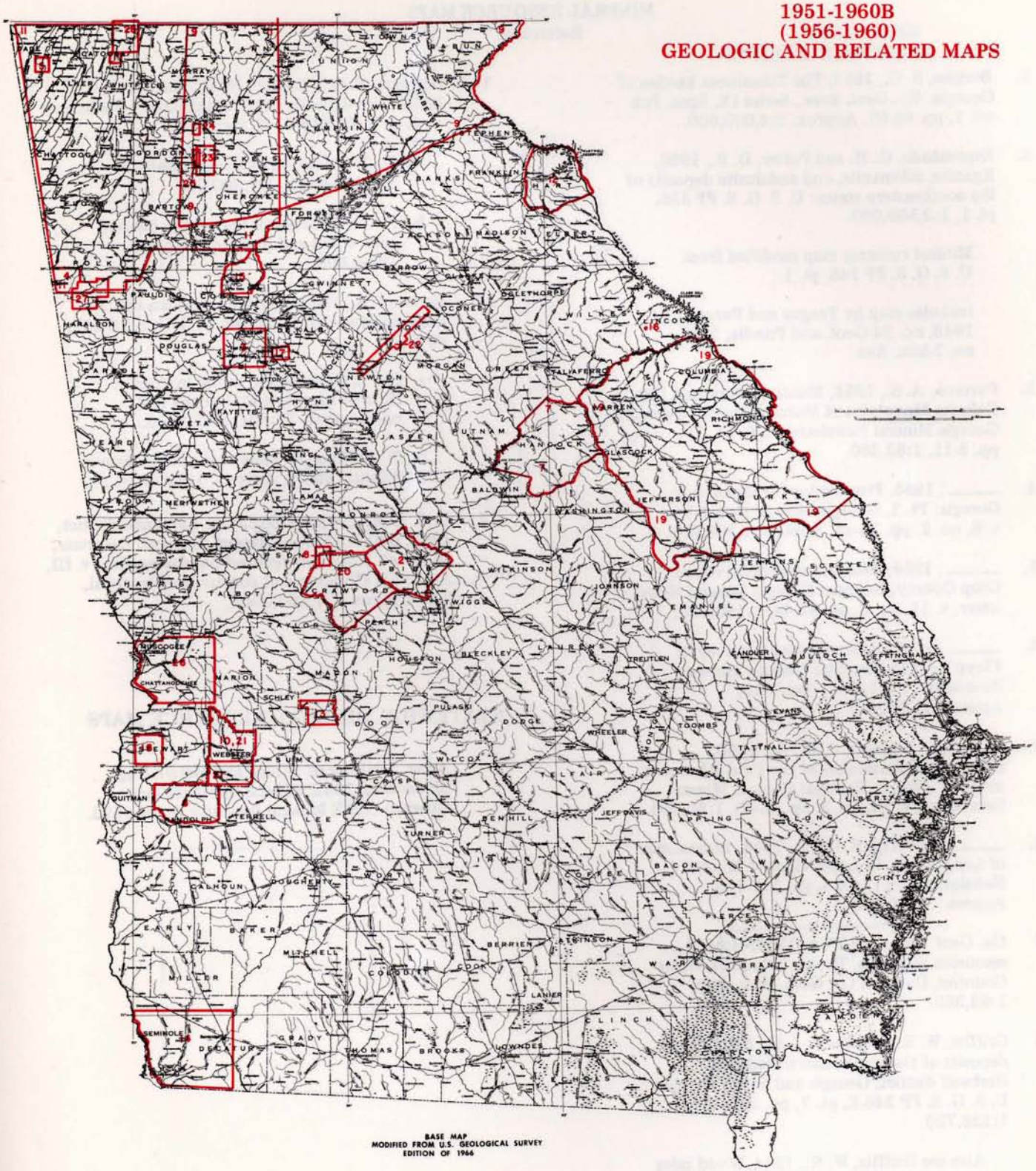

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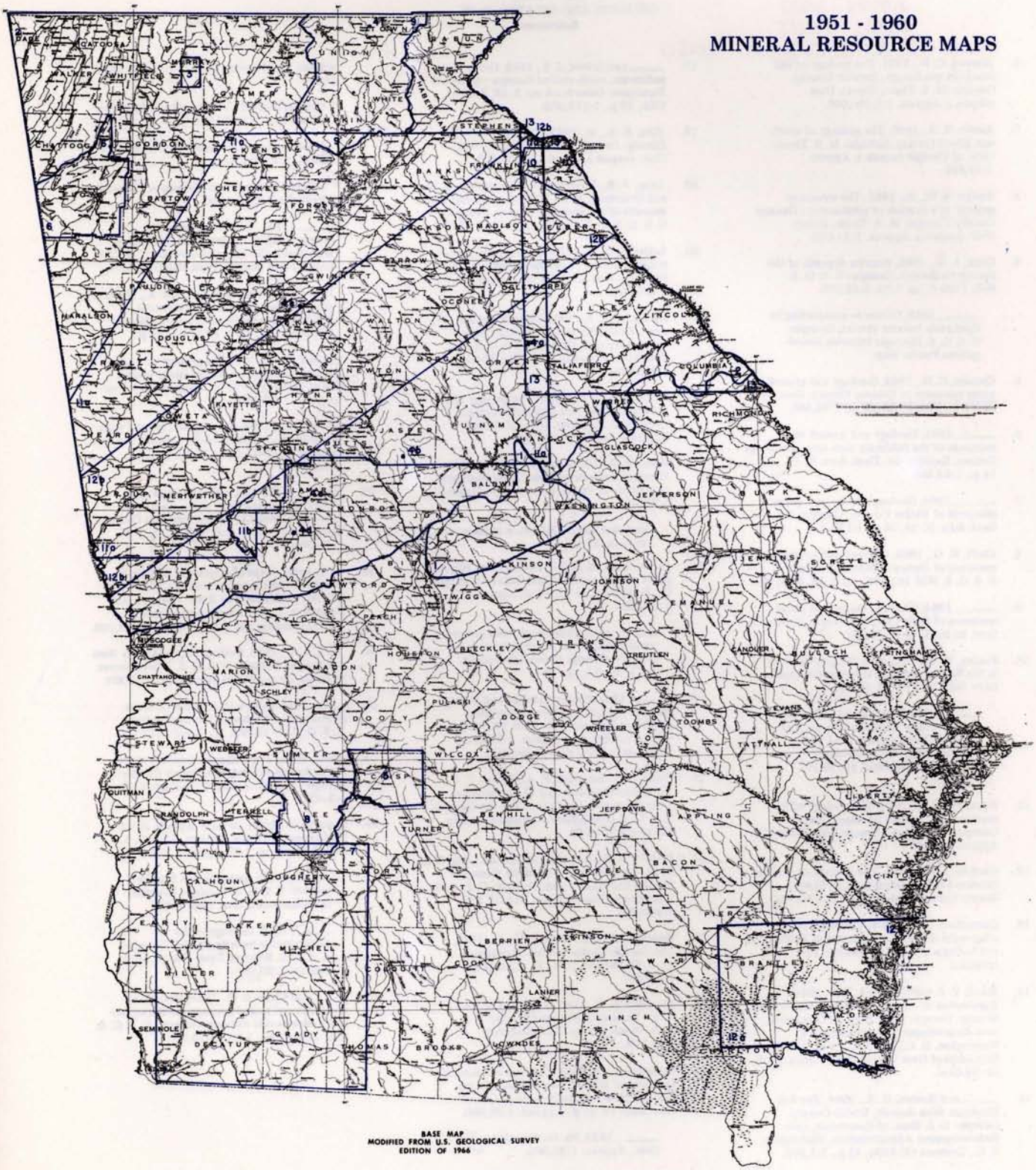

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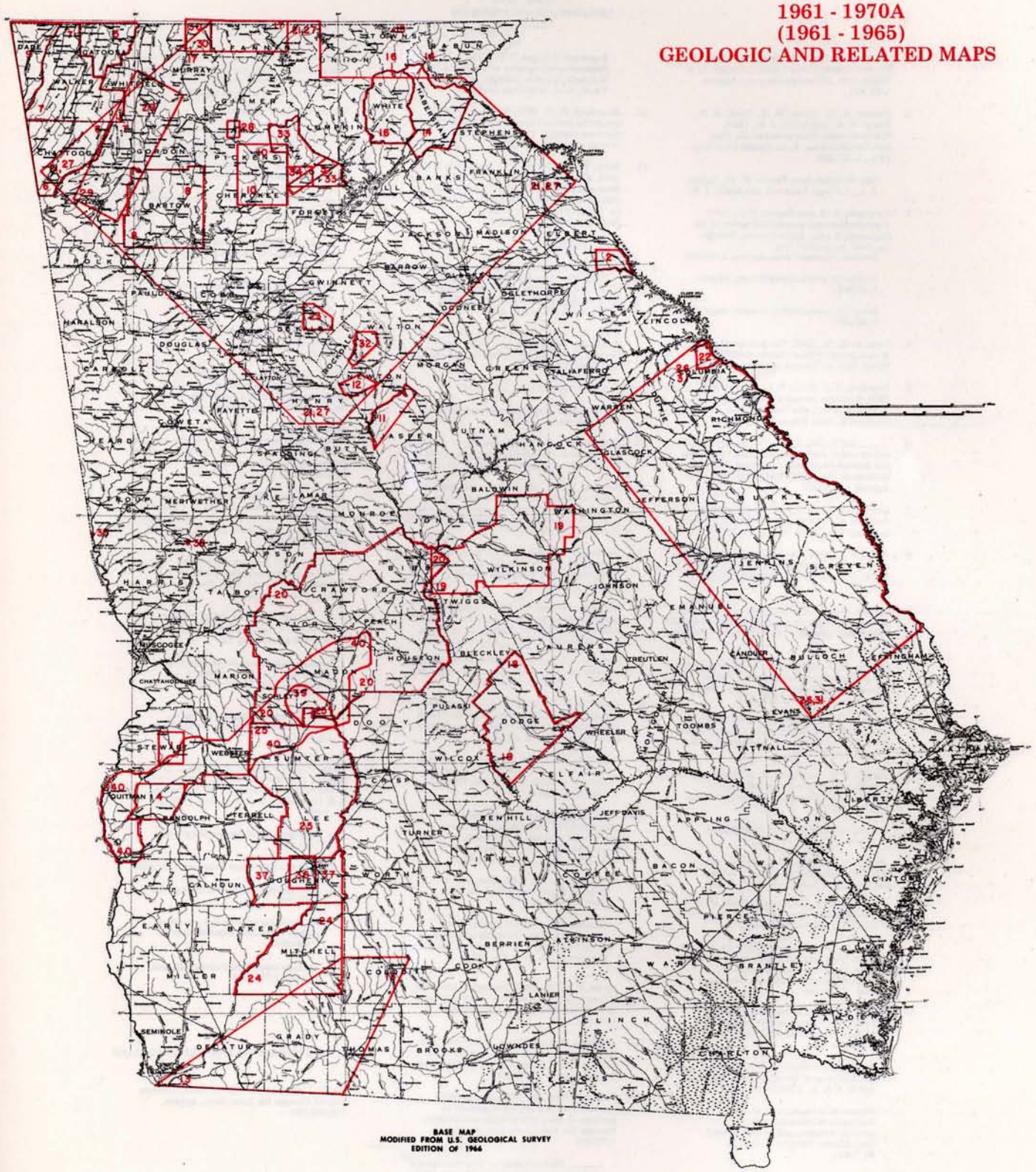

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    d. Map showing location and generalized geology of bauxite deposits, Approx. 1:400,000.

    e. Geologic map of the Summerville area, Approx. 1:700,000.

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1961 - 1970B
(1966 - 1970)
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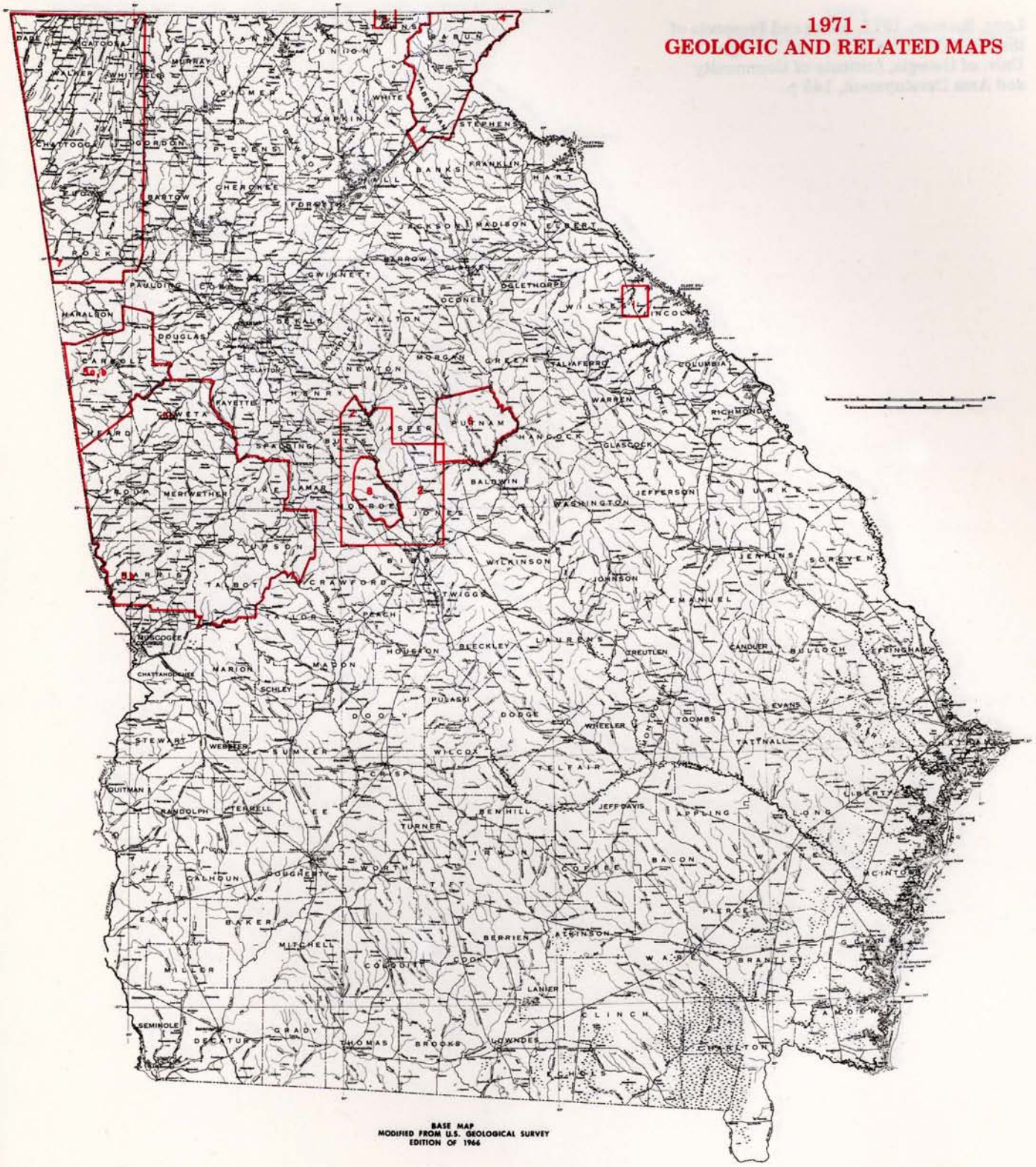

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1971 -
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