

GEOLOGICAL SURVEY CIRCULAR 638

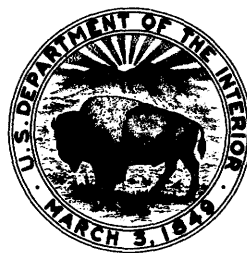


**Reports and Maps of the
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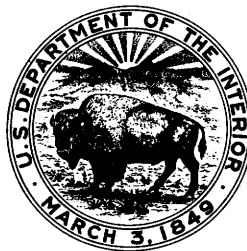
Reports and Maps of the Geological Survey Released Only in the Open Files, 1970

By Betsy A. Weld, Margaret S. Griffin,
and George W. Brett

GEOLOGICAL SURVEY CIRCULAR 638



United States Department of the Interior
ROGERS C. B. MORTON, *Secretary*



Geological Survey
William T. Pecora, *Director*



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INTRODUCTION

This circular contains a list of maps and reports released by the U.S. Geological Survey during 1970 that are available for public inspection in the open files. These maps and reports may be consulted at the indicated depositories, and copies may be made upon request (at the requestor's expense).

The reports are arranged alphabetically by author; each report is preceded by a serial number that is used to identify the report in the index (p. 19), and is followed by the depositories at which it may be consulted.

Most open-file reports are on file in at least one of the major U.S. Geological Survey depositories listed below. Many are also on file at depositories selected as appropriate for the individual reports. All depositories are U.S. Geological Survey offices unless a State Geological Survey or other organization is specifically indicated. The following symbols are used in the list to indicate the major depositories:

- A Public Inquiries Office, 108 Skyline Bldg., 508 2d Ave., Anchorage, Alaska 99501.
- Da Library, Bldg. 25, Federal Center, Denver, Colo. 80225.
- Db Public Inquiries Office, 1012 Federal Bldg., Denver, Colo. 80202.
- F Library, 801 East Cedar Ave., Flagstaff, Ariz. 86001.

- LA Public Inquiries Office, 7638 Federal Bldg., 300 North Los Angeles St., Los Angeles, Calif. 90012.
- M Library, 345 Middlefield Rd., Menlo Park, Calif. 94025.
- S Public Inquiries Office, 678 U.S. Court House Bldg., West 920 Riverside Ave., Spokane, Wash. 99201.
- SF Public Inquiries Office, 504 Custom House, 555 Battery St., San Francisco, Calif. 94111.
- T Public Inquiries Office, 602 Thomas Bldg., 1314 Wood St., Dallas, Tex. 75202.
- U Public Inquiries Office, 8102 Federal Office Bldg., 125 South State St., Salt Lake City, Utah 84111.
- Wa Library, 1033 General Services Administration Bldg., 18th and F Sts., NW., Washington, D.C. 20242.
- Wb 132 Washington Bldg., Arlington Towers, 1011 Arlington Blvd., Arlington, Va. 22209.

Open-file reports released during past years have been listed in the following circulars (* indicates report is out of print):

Years(s)	Circular	Year	Circular
1946-47	*56	1959	*428
1948	*64	1960	448
1949-50	*149	1961	463
1951	*227	1962	473
1952	*263	1963	488
1953	*337	1964	498
1954	*364	1965	518
1955	*379	1966	528
1956	*401	1967	548
1957	*403	1968	568
1958	412	1969	618

MAPS AND REPORTS

1. Abbott, J. T., Geology of Precambrian rocks and isotope geochemistry of shear zones in the Big Narrows area, northern Front Range, Colorado: 239 p., 7 pls., 67 figs., 25 tables. (Wa, Da, M.)
2. Allcott, G. H., A geochemical evaluation of the Ash Sha'ib mineral prospect, Asir quadrangle, Kingdom of Saudi Arabia: 38 p., 6 pls., 3 figs., 6 tables. (Wa, Da, M.)
3. Allen, H. E., and Noehre, A. W., Floods in Harvard SE quadrangle, northeastern Illinois: 9 p., 8 figs. (Wa, Wb; 605 North Neil St., Champaign, Ill. 61820.)
4. Allingham, J. W., Principal facts for gravity stations in Howard County, Maryland: 18 p., tabular data. (Wa, Da, M; Maryland Geol. Survey, 214 Latrobe Hall, Johns Hopkins Univ., Baltimore, Md. 21218.)
5. Alpha, T. R., Physiographic diagrams of parts of the continental borderlands of California and Alaska: 12 physiographic diagrams: Southern California Borderland; Eastern Murray Fracture Zone and Transverse Ranges; Southern Monterey Bay; Monterey Canyon; Central San Francisco Bay; Pribilof Canyon; Zhemchug Canyon; Bering Canyon; Buldir Depression; Nuka Bay Alaska; Western Aleutian Arc (viewed from south); Western Aleutian Arc (viewed from north). (Wa, Da, Db, A, M, LA, S, SF; Brooks Bldg., College, Alaska 99701; 441 Federal Bldg., Juneau, Alaska 99801; Library, California Div. Mines and Geology, Ferry Bldg., San Francisco, Calif. 94111; State Office Bldg., 107 South Broadway, Los Angeles, Calif. 90012; Alaska Div. Mines and Geology: 509 Goldstein Bldg., Juneau, Alaska 99801; 3001 Porcupine Dr., Anchorage, Alaska 99504; University Ave., College, Alaska 99701.)
6. Alvord, D. C., Logs of cores from drill holes in southeastern Kentucky: 1 p., 1 index map, 12 core logs. (Wa, Da, M; 710 West High St., Lexington, Ky. 40508; Kentucky Geol. Survey, Univ. Kentucky, 307 Mineral Industries Bldg., 120 Graham Ave., Lexington, Ky. 40506.)
7. Anderson, D. B., and Schwob, H. H., Floods of April-May 1969 in upper Midwestern United States: 265 p., 74 figs. (Wa, Wb; 1033 New Post Office Bldg., St. Paul, Minn. 55101.)
8. Anderson, P. W., and Murphy, J. J., Report on the quality of water from the Hackensack River pilot desalination plant at Jersey City, New Jersey: 307 p., 3 figs. (Wa, Wb; 420 Federal Bldg., Trenton, N.J. 08607.)
9. Anderson, T. W., Evapotranspiration losses from flood plains in the Agua Fria River drainage above Lake Pleasant, Arizona: 39 p., 10 figs. (Wa, Wb, Db, LA, SF, U; 2555 East 1st St., Tucson, Ariz. 85717.)
10. Anttila, P. W., A proposed streamflow-data program for Ohio: 98 p., 3 figs. (Wa, Wb.)
11. Armbruster, J. T., A proposed streamflow-data program for South Carolina: 61 p., 3 figs. (Wa, Wb.)
12. Ashley, R. P., Evaluation of color and color infrared photography from the Goldfield mining district, Esmeralda and Nye Counties, Nevada: 36 p., 8 pls., 3 figs. (Wa, Da, F, M, U; Library, Mackay School Mines, Univ. Nevada, Reno, Nev. 89507.)
13. Babcock, H. M., Ground-water conditions in the Gila River Indian Reservation, Pinal and Maricopa Counties, Arizona: 14 p., 3 figs. (Wa, Wb; 2555 East 1st St., Tucson, Ariz. 85717; 5017 Federal Bldg., 230 North 1st Ave., Phoenix, Ariz. 85025.)
14. Baker, A. A., Geologic map of the Bridal Veil Falls quadrangle, Utah: 1 sheet, scale 1:24,000. (Wa, Da, Db, M, U.)
15. Baker, E. T., Jr., and Watson, J. A., Basic data on the quantity of low flow in Barton Creek, Texas, July 6-8 and October 1-3, 1970: 12 p. (Wa, Wb, T; 630 Federal Bldg., 300 East 8th St., Austin, Tex. 78701.)
16. Ballance, W. C., Hydraulic tests in hole UA-1 and water inflow into an underground chamber, Amchitka Island, Alaska: 54 p., 37 figs. (Wa, Wb, A, LA, M, S, SF; Skyline Bldg., 218 E St., Anchorage, Alaska 99501.)
17. Barclay, C. S. Venable, Preliminary geologic map of the Glen Ullin quadrangle, Morton County, North Dakota: 25 p., geologic map (1 sheet), scale 1:24,000, stratigraphic sections (2 sheets), map showing distribution of gneiss blocks (1 sheet). (Wa, Da, Db; North Dakota Geol. Survey, Univ. North Dakota, Grand Forks, N. Dak. 58201.)
18. Barnes, D. F., and Tailleux, I. L., Preliminary interpretation of geophysical data from the lower Noatak River basin, Alaska: 24 p., 5 figs. (Wa, Da, Db, A, LA, M, S, SF; Brooks Bldg., College, Alaska 99701; 441 Federal Bldg., Juneau, Alaska 99801; Alaska Div. Mines and Geology: 509 Goldstein Bldg., Juneau, Alaska 99801; 3001 Porcupine Dr., Anchorage, Alaska 99504; University Ave., College, Alaska 99701.)
19. Bateman, A. F., Jr., Results of analyses for shale oil in the Phosphoria Formation of southwestern Montana: 5 p., 1 fig. (total, 6 p.) (Wa, Da, Db, U.)
20. Bath, G. D., Carr, W. J., Gard, L. M., Jr., and Quinlivan, W. D., Interpretation of an aeromagnetic survey of the Amchitka Island area, Alaska: 87 p. (incl. 23 figs., 2 tables), 5 pls. (Wa, Da, Db, A, LA, M, S, SF; Brooks Bldg., College, Alaska 99701; 441 Federal Bldg., Juneau, Alaska 99801; Alaska Div. Mines and Geology: 509 Goldstein Bldg., Juneau, Alaska 99801; 3001 Porcupine Dr., An-

- chorage, Alaska 99504; University Ave., College, Alaska 99701.)
21. Beaber, H. C., A proposed streamflow-data program for Kentucky: 48 p., 4 figs. (Wa, Wb; 572 Federal Bldg., 600 Federal Pl., Louisville, Ky. 40202.)
 22. Behrendt, J. C., and Popenoe, Peter, Principal facts for gravity stations in the North Park-Middle Park area, Colorado: 57 p. (incl. 54 p. tables). (Wa, Da, Db, M, U; Colorado Geol. Survey, 254 Columbine Bldg., 1845 Sherman St., Denver, Colo. 80203.)
 23. Behrendt, J. C., and Wotorsen, C. S., High-amplitude radioactivity anomalies in Liberia: 1 map, scale 1:1,000,000. (Wa, Da, M.)
 24. Behrendt, J. C., and Wotorsen, C. S., Total intensity aeromagnetic map of Liberia, including the continental shelf: 2 sheets, scale 1:1,000,000. (Wa, Da, M.)
 25. Bent, P. C., A proposed streamflow-data program for Michigan: 69 p., 5 figs. (Wa, Wb; 700 Capitol Savings and Loan Bldg., 112 East Allegan St., Lansing, Mich. 48933.)
 26. Bergquist, W. E., Bibliography of reports resulting from U.S. Geological Survey participation in the United States Technical Assistance Program—supplement for 1968–1969: 22 p. (Wa, Da, M.)
 27. Bingham, J. W., Londquist, C. J., and Baltz, E. H., Geologic investigation of faulting in the Hanford region, Washington, *with a section on The occurrence of microearthquakes*, by A. N. Pitt: 104 p., 25 figs. (Wa, Wb, LA, M, S, SF; Rm. 300, 1305 Tacoma Ave. South, Tacoma, Wash. 98402.)
 28. Black, D. F. B., Map of structural features in part of central Kentucky: 3 p., 1 pl., scale 1:125,000. (Wa, Da, M; 410 West High St., Lexington, Ky. 40508; Kentucky Geol. Survey, 307 Mineral Industries Bldg., Univ. Kentucky, 120 Graham Ave., Lexington, Ky. 40506.)
 29. Blade, L. V., Geology of the Bushrod Island-New Georgia clay deposit near Monrovia, Liberia: 35 p., incl. 7 figs., 4 tables. (Wa, Da, M.)
 30. Blodgett, J. C., and Mitten, H. T., Determination of channel capacity of the Tuolomne River downstream from La Grange, Stanislaus County, California: 38 p., 5 pls., 10 figs. (Wa, Wb, LA, SF; 855 Grove Ave., Menlo Park, Calif. 94025.)
 31. Bodenlos, A. J., Possibilities of sulfur mineralization in Saudi Arabia: 29 p., 2 figs. (Wa, Da, M.)
 32. Bohn, J. D., and Hoffman, G. H., A proposed streamflow-data program for Oklahoma: 61 p., 4 figs. (Wa, Wb, T.)
 33. Boner, F. C., and Buswell, G. W., A proposed streamflow-data program for Montana: 96 p., 4 figs. (Wa, Wb, Db, U.)
 34. Bonilla, M. G., and Buchanan, J. M., Interim report on worldwide historic surface faulting: 32 p., 5 figs., 3 tables. (Wa, Da, LA, M, SF; California Div. Mines and Geology, Ferry Bldg., San Francisco, Calif. 94111; State Office Bldg., 107 South Broadway, Los Angeles, Calif. 90012.)
 35. Borland, J. P., A proposed streamflow-data program for New Mexico: 71 p., 6 figs. (Wa, Wb, Db, T; Geology Bldg., Univ. New Mexico, Albuquerque, N. Mex. 87106; New Mexico State Engineer, State Capitol Bldg., Santa Fe, N. Mex. 87501.)
 36. Brabb, E. E., compiler, Preliminary geologic map of the central Santa Cruz Mountains, California: map and explanation (3 sheets), scale 1:62,500. (Wa, Da, LA, M, SF; California Div. Mines and Geology, Ferry Bldg., San Francisco, Calif. 94111; State Office Bldg., 107 South Broadway, Los Angeles, Calif. 90012.)
 37. Brice, H. D., Shaffer, F. B., and Stuthmann, N. G., A proposed streamflow-data program for Nebraska: 68 p., 4 figs. (Wa, Wb, Db; 127 Nebraska Hall, 901 North 17th St., Lincoln, Nebr. 68508.)
 38. Brinkworth, G. L., Complete Bouguer anomaly gravity map and generalized geology of an area west of Denver, Colorado: 1 sheet, scale 1:125,000. (Wa, Da, Db, M, U; Colorado Geol. Survey, 254 Columbine Bldg., 1845 Sherman St., Denver, Colo. 80203.)
 39. Brosgé, W. P., and Reiser, H. N., compilers, Analyses of rock and soil samples, Chandalar and eastern Wiseman quadrangles, Alaska: 8 p. tables, 3 figs. (Wa, Da, Db, A, LA, M, S, SF; Brooks Bldg., College, Alaska 99701; 441 Federal Bldg., Juneau, Alaska 99801; Alaska Div. Mines and Geology: 509 Goldstein Bldg., Juneau, Alaska 99801; 3001 Porcupine Dr., Anchorage, Alaska 99504; University Ave., College, Alaska 99701.)
 40. Brosgé, W. P., and Reiser, H. N., compilers, Chemical analyses of stream sediment samples from the Chandalar and eastern Wiseman quadrangles, Alaska: 5 p., 51 sheets, 1 fig. (Wa, Da, Db, A, LA, M, S, SF; Brooks Bldg., College, Alaska 99701; 441 Federal Bldg., Juneau, Alaska 99801; Alaska Div. of Mines and Geology: 509 Goldstein Bldg., Juneau, Alaska 99801; 3001 Porcupine Dr., Anchorage, Alaska 99504; University Ave., College, Alaska 99701.)
 41. Brosgé, W. P., Reiser, H. N., and Estlund, M. B., Chemical analyses of stream sediment samples from the Sadlerochit-Jago Rivers area, Mt. Michelson and Demarcation Point quadrangles, Alaska: 6 p. text, 38 p. tables, 1 fig. (Wa, Da, Db, A, LA, M, S, SF; Brooks Bldg., College, Alaska 99701; 441 Federal Bldg., Juneau, Alaska 99801; Alaska Div. Mines and Geology: 509 Goldstein Bldg., Juneau, Alaska 99801; 3001 Porcupine Dr., Anchorage, Alaska 99504; University Ave., College, Alaska 99701.)
 42. Brown, R. D., Jr., Faults that are historically active or that show evidence of geologically young surface displacements, San Francisco Bay region—a progress report, Oct. 1970: map and explanation, scale 1:250,000, summary, references, (total, 1

- sheet). (Wa, Da, LA, M, SF; Library, California Div. Mines and Geology, Ferry Bldg., San Francisco, Calif. 94111; California Div. Mines and Geology, State Office Bldg., 107 South Broadway, Los Angeles, Calif. 90012.)
43. Brown, R. D., Jr., Geologic map of the north central part of the Olympic Peninsula, Washington: map and explanation (2 sheets), scale 1:62,500. (Wa, Da, M, LA, S, SF; Washington Div. Mines and Geology, Dept. Nat. Resources, Olympia, Wash. 98501.)
 44. Brown, R. D., Jr., and Wolfe, E. W., Map showing recently active breaks along the San Andreas fault between Point Delgada and Bolinas Bay, California: 1 map (2 sheets), scale 1:24,000. (Wa, Da, LA, M, SF.)
 45. Bryant, Bruce, Geologic map of the Highland Peak quadrangle, Pitkin County, Colorado: map and explanation (2 sheets), scale 1:24,000. (Wa, Da, Db, M, U.)
 46. Bryner, Leonid, Map showing locations of holes drilled in 1948 to 1953 by U.S. Geological Survey, Club Mesa area, Montrose County, Colorado: 4 p., 1 sheet. (Wa, Da, M; U.S. Atomic Energy Comm., Grand Junction, Colo. 81501.)
 47. Burkham, D. E., Depletion of streamflow by infiltration in the main channels of the Tucson basin, southeastern Arizona: 80 p., 12 figs. (Wa, Wb; 2555 East 1st St., Tucson, Ariz. 85717.)
 48. Burmeister, I. L., The streamflow-data program in Iowa, evaluation of the past, proposal for the future: 85 p., 10 figs. (Wa, Wb; 1041 Arthur St., Iowa City, Iowa 52240.)
 49. Busch, F. E., Annual water-resources review, White Sands Missile Range, 1969—a basic data report: 41 p., 9 figs. (Wa, Wb, Db, T; Geology Bldg., Univ. New Mexico, Albuquerque, N. Mex. 87106; New Mexico State Engineer, State Capitol Bldg., Santa Fe, N. Mex. 87501.)
 50. Calkins, F. C., Map of geology of Yosemite Valley: map and explanation (1 sheet), scale 1:24,000. (Wa, Da, LA, M, SF.)
 51. Camp, J. D., and Miller, E. M., Flood of August 1969 in Virginia: 120 p., 31 figs. (Wa, Wb; 200 West Grace St., Richmond, Va. 23220.)
 52. Campbell, R. E., and Dreher, F. C., A proposed streamflow-data program for Wisconsin: 68 p., 11 figs. (Wa, Wb.)
 53. Campbell, R. H., Blackerby, B. A., Yerkes, R. F., Schoellhamer, J. E., Birkeland, P. W., and Wentworth, C. M., Preliminary geologic map of the Point Dume quadrangle, Los Angeles County, California: map with explanation and sections (3 sheets), scale 1:12,000. (Wa, Da, LA, M, SF.)
 54. Canney, F. C., Remote detection of geochemical soil anomalies: 6 p., tabular data (1 sheet). (Wa, Da, M.)
 55. Cardova, R. M., Sandberg, G. W., and McConkie, Wilson, Ground-water conditions in the central Virgin River basin, Utah—A progress report for 1968–69: 37 p., 5 figs. (Wa, Wb; 8002 Federal Bldg., 125 South State St., Salt Lake City, Utah 84111; Room 8, Post Office Bldg., Cedar City, Utah 84720.)
 56. Carlson, P. R., and McCulloch, D. S., Bedrock-surface map of central San Francisco Bay: 1 sheet, scale 4" = 1 mi. (Wa, Da, LA, M, SF.)
 57. Carswell, L. D., Appraisal of water resources in the Hackensack River basin, New Jersey: 126 p., 20 figs. (Wa, Wb; 420 Federal Bldg., Trenton, N.J. 08607.)
 58. Carter, R. F., A proposed surface-water data program for Georgia: 64 p., 8 figs. (Wa, Wb; Rm. 301, 900 Peachtree St., NE., Atlanta, Ga. 30309.)
 59. Carter, R. W., and Benson, M. A., Concepts for the design of streamflow-data programs: 33 p., 1 fig. (Wa, Wb.)
 60. Cathcart, J. B., Phosphate deposits in the Jawf-Sakakah Basin, Kingdom of Saudi Arabia, Part III, Preliminary observations on the texture and composition: 23 p., 4 figs., 3 tables. (Wa, Da, M.)
 61. Cattermole, J. M., Geologic map of the Rapid City East quadrangle, Pennington County, South Dakota: 3 p., 3 sheets (map, description, explanation), scale 1:24,000. (Wa, Da, Db, M, U; Dept. Geology and Geol. Eng., South Dakota School Mines and Technology, Rapid City, S. Dak. 57701.)
 62. Childers, J. M., A proposed streamflow-data program for Alaska: 72 p., 7 figs. (Wa, Wb, LA, M, S, SF; Skyline Bldg., 218 E St., Anchorage, Alaska 99501.)
 63. Childers, J. M., Flood frequency in Alaska: 36 p., 3 figs. (Wa, Wb, A, LA, M, SF; Skyline Bldg., 218 E St., Anchorage, Alaska 99501.)
 64. Churkin, Michael, Jr., Paleozoic and Precambrian rocks of Alaska and their role in its structural evolution: 131 p., 25 figs. (Wa, Da, Db, A, LA, M, S, SF; Brooks Bldg., College, Alaska 99701; 441 Federal Bldg., Juneau, Alaska 99801; Alaska Div. Mines and Geology: 509 Goldstein Bldg., Juneau, Alaska 99801; 3001 Porcupine Dr., Anchorage, Alaska 99504; University Ave., College, Alaska 99701.)
 65. Clark, A. L., Berg, H. C., Grybeck, D. A., Ovenshine, A. T., and Wehr, Raymond, Analyses of rock and stream-sediment samples from the Craig B-3 quadrangle, Alaska: 100 p. (incl. 92 p. tables), 1 map, scale 1:63,360. (Wa, Da, Db, A, LA, M, S, SF; Brooks Bldg., College, Alaska 99701; 441 Federal Bldg., Juneau, Alaska 99801; Alaska Div. Mines and Geology: 509 Goldstein Bldg., Juneau, Alaska 99801; 3001 Porcupine Dr., Anchorage, Alaska 99504; University Ave., College, Alaska 99701.)
 66. Clark, A. L., Berg, H. C., Grybeck, D. A., Ovenshine, A. T., and Wehr, Raymond, Analyses of rock and

- stream-sediment samples from the Craig B-4 quadrangle, Alaska: 98 p. (incl. 91 p. tables), 1 map, scale 1:63,360. (Wa, Da, Db, A, LA, M, S, SF; Brooks Bldg., College, Alaska 99701; 441 Federal Bldg., Juneau, Alaska 99801; Alaska Div. Mines and Geology: 509 Goldstein Bldg., Juneau, Alaska 99801; 3001 Porcupine Dr., Anchorage, Alaska 99504; University Ave., College, Alaska 99701.)
67. Clark, A. L., Berg, H. C., Grybeck, D. A., Ovenshine, A. T., and Wehr, Raymond, Analyses of rock and stream-sediment samples from the Craig B-5 quadrangle, Alaska: 89 p. (incl. 82 p. tables), 1 map, scale 1:63,360. (Wa, Da, Db, A, LA, M, S, SF; Brooks Bldg., College, Alaska 99701; 441 Federal Bldg., Juneau, Alaska 99801; Alaska Div. Mines and Geology: 509 Goldstein Bldg., Juneau, Alaska 99801; 3001 Porcupine Dr., Anchorage, Alaska 99504; University Ave., College, Alaska 99701.)
 68. Clark, A. L., Berg, H. C., Grybeck, D. A., Ovenshine, A. T., and Wehr, Raymond, Analyses of rock samples from the Craig B-6 quadrangle, Alaska: 45 p. (incl. 39 p. tables), 1 map, scale 1:63,360. (Wa, Da, Db, A, LA, M, S, SF; Brooks Bldg., College, Alaska 99701; 441 Federal Bldg., Juneau, Alaska 99801; Alaska Div. Mines and Geology: 509 Goldstein Bldg., Juneau, Alaska 99801; 3001 Porcupine Dr., Anchorage, Alaska 99504; University Ave., College, Alaska 99701.)
 69. Clark, A. L., Berg, H. C., Grybeck, D. A., Ovenshine, A. T., Wehr, Raymond, Analyses of rock and stream-sediment samples from the Craig C-5 quadrangle, Alaska: 79 p., (incl. 73 p. tables), 1 map, scale 1:63,360. (Wa, Da, Db, A, LA, M, S, SF; Brooks Bldg., College, Alaska 99701; 441 Federal Bldg., Juneau, Alaska 99801; Alaska Div. Mines and Geology: 509 Goldstein Bldg., Juneau, Alaska 99801; 3001 Porcupine Dr., Anchorage, Alaska 99504; University Ave., College, Alaska 99701.)
 70. Clark, A. L., Berg, H. C., Grybeck, D. A., Ovenshine, A. T., and Wehr, Raymond, Analyses of rock and stream-sediment samples from the Craig C-6 quadrangle, Alaska: 81 p. (incl. 75 p. tables), 1 map, scale 1:63,360. (Wa, Da, Db, A, LA, M, S, SF; Brooks Bldg., College, Alaska 99701; 441 Federal Bldg., Juneau, Alaska 99801; Alaska Div. Mines and Geology: 509 Goldstein Bldg., Juneau, Alaska 99801; 3001 Porcupine Dr., Anchorage, Alaska 99504; University Ave., College, Alaska 99701.)
 71. Clark, A. L., Brew, D. A., Grybeck, D. A., and Wehr, Raymond, Analyses of rock and stream-sediment samples from the Sumdum A-3 quadrangle, Alaska: 98 p. (incl. 89 p. tables), 1 map, scale 1:63,360. (Wa, Da, Db, A, LA, M, S, SF; Brooks Bldg., College, Alaska 99701; 441 Federal Bldg., Juneau, Alaska 99801; Alaska Div. Mines and Geology: 509 Goldstein Bldg., Juneau, Alaska 99801; 3001 Porcupine Dr., Anchorage, Alaska 99504; University Ave., College, Alaska 99701.)
 72. Clark, A. L., Brew, D. A., Grybeck, D. A., and Wehr, Raymond, Analyses of rock and stream-sediment samples from the Sumdum A-4 quadrangle, Alaska: 97 p. (incl. 88 p. tables), 1 map, scale 1:63,360. (Wa, Da, Db, A, LA, M, S, SF; Brooks Bldg., College, Alaska 99701; 441 Federal Bldg., Juneau, Alaska 99801; Alaska Div. Mines and Geology: 509 Goldstein Bldg., Juneau, Alaska 99801; 3001 Porcupine Dr., Anchorage, Alaska 99504; University Ave., College, Alaska 99701.)
 73. Clark, A. L., Brew, D. A., Grybeck, D. A., and Wehr, Raymond, Analyses of rock and stream-sediment samples from the Sumdum B-3 quadrangle, Alaska: 95 p. (incl. 86 p. tables), 1 map, scale 1:63,360. (Wa, Da, Db, A, LA, M, S, SF; Brooks Bldg., College, Alaska 99701; 441 Federal Bldg., Juneau, Alaska Div. Mines and Geology: 509 Goldstein Bldg., Juneau, Alaska 99801; 3001 Porcupine Dr., Anchorage, Alaska 99504; University Ave., College, Alaska 99701.)
 74. Clark, A. L., Brew, D. A., Grybeck, D. A., and Wehr, Raymond, Analyses of rock and stream-sediment samples from the Sumdum B-4 quadrangle, Alaska: 104 p. (incl. 94 p. tables), 1 map, scale 1:63,360. (Wa, Da, Db, A, LA, M, S, SF; Brooks Bldg., College, Alaska 99701; 441 Federal Bldg., Juneau, Alaska 99801; Alaska Div. Mines and Geology: 509 Goldstein Bldg., Juneau, Alaska 99801; 3001 Porcupine Dr., Anchorage, Alaska 99504; University Ave., College, Alaska 99701.)
 75. Clark, A. L., Brew, D. A., Grybeck, D. A., and Wehr, Raymond, Analyses of rock and stream-sediment samples from the Sumdum B-5 quadrangle, Alaska: 85 p. (incl. 79 p. tables), 1 map, scale 1:63,360. (Wa, Da, Db, A, LA, M, S, SF; Brooks Bldg., College, Alaska 99701; 441 Federal Bldg., Juneau, Alaska 99801; Alaska Div. Mines and Geology: 509 Goldstein Bldg., Juneau, Alaska 99801; 3001 Porcupine Dr., Anchorage, Alaska 99504; University Ave., College, Alaska 99701.)
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