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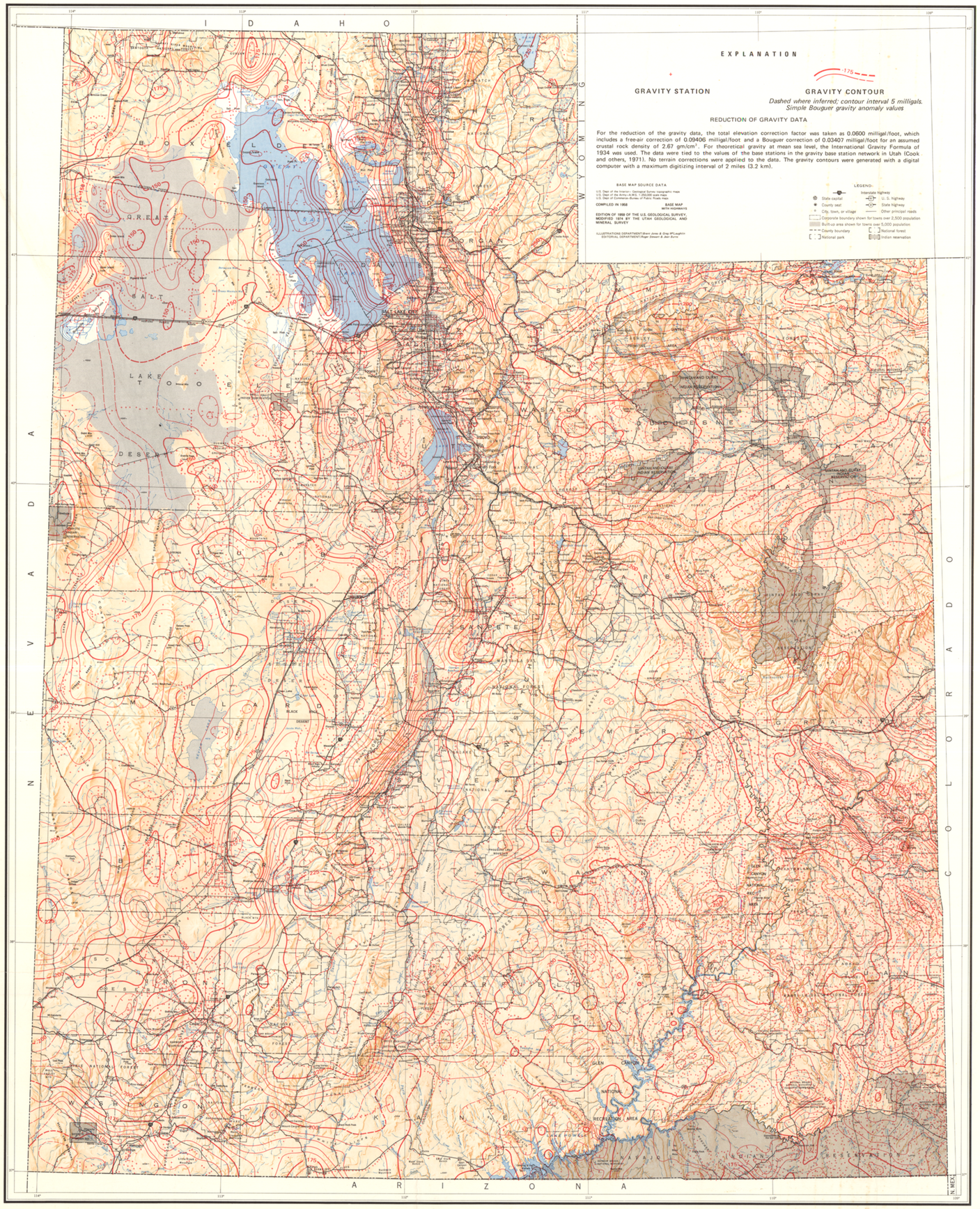
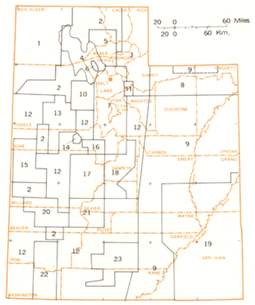
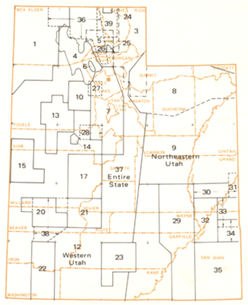




Index Map A

Index Map B



Index Map C

PRINCIPAL SOURCES OF DATA

[Index Maps A and B only]

Number designations on Index Map A and letter designations on Index Map B correspond to the following principal sources of data. Organizations that furnished data are indicated in brackets at the end of each source: U of U–University of Utah; USGS–United States Geological Survey; ACIC–Aeronautical Chart and Information Center, U. S. Department of Defense; Oil Co.–oil companies.

Index Map A[1]
[indicated by number designations]

1a. Halverson, M. O., 1961, Regional gravity survey of northwestern Utah and part of southern Idaho: M. S. thesis, 33 p. Published in 1964; abstract published in 1970 (see Index Map C, 1a and 1c). [U of U]
1b. Stepp, J. C., 1961, Regional gravity survey of parts of Tooele and Box Elder counties, Utah, and Elko County, Nevada: M. S. thesis, 40 p. Published in 1964; abstract published in 1970 (see Index Map C, 1a and 1d). [U of U]
1c. Khattab, M. M. M., 1968, Gravity and magnetic surveys of the Grouse Creek Mountains and the Raft River Mountains area and vicinity, Utah and Idaho: Ph. D. thesis, 196 p. In press; abstract published in 1969 (see Index Map C, 1b and 1e). [U of U]
2. University of Utah special studies, including university classes on gravity studies. In preparation for publication. [U of U]
3. Quitzau, R. P., 1961, Regional gravity survey of the back valleys of the Wasatch Mountains and adjacent areas of Utah, Idaho, and Wyoming, M. S. thesis, 48 p. Copyright 1971.[1] Abstract published in 1970 (see Index Map C, 3). [U of U]
4. Cook, K. L., Iverson, R. M., and Strohmeier, M. T., Bottom gravity meter survey of the Great Salt Lake, Utah. In preparation for publication; abstracts published in 1967 and 1969 (see Index Map C, 4b). [U of U]
5. Lum, Daniel, 1957, Regional gravity survey of the north-central Wasatch Mountains and vicinity, Utah: M. S. thesis, 27 p. Abstract published in 1970 (see Index Map C, 5). In preparation for publication. [U of U]
6. Novotny, R. T., 1958, A gravity and magnetic study of Antelope Island, Great Salt Lake, Davis County, Utah: M. S. thesis, 24 p. Published in part in 1966; abstract published in 1970 (see Index Map C, 4a and 6). [U of U]
7a. Cook, K. L., and Berg, J. W., Jr., 1961.[3] [USGS]
7b. Cook, K. L., and Berg, J. W., Jr., 1972.[3] [USGS]
8. Behrendt, J. C., and Thiel, Edward, 1963.[3] [U of U and USGS]
9a. Oil companies: Amoco Production Company; Chevron Oil Company; Exxon Company–USA; Gulf Research & Development Company. [Oil Co.]
9b. Aeronautical Chart and Information Center, U. S. Department of Defense. [ACIC]
9c. Smith, J. T., 1973, An interpretation of gravity anomalies of northeastern Utah: M. S. thesis, 74 p. Copyright 1973.[1] Includes simple Bouguer gravity anomaly map (scale 1:500,000) of the entire northeastern part of Utah, with 2-mgal contour interval. Abstract published in 1974 (see Index Map C, 38). [U of U]
10. Johnson, W. W., 1958, Regional gravity survey of part of Tooele County, Utah: M. S. thesis, 38 p. Published in part in 1966; abstract published in 1970 (see Index Map C, 4a and 10). [U of U]
11a. Open-file data. [USGS]
11b. University of Utah special studies. Unpublished. [U of U]
12. Montgomery, J. R, 1973, A regional gravity survey of western Utah: Ph. D. thesis, 132 p. Copyright 1973.[1] Field work included competition areas and survey ties in western Utah. Includes simple Bouguer gravity anomaly map (scale 1:1,000,000) of the entire western half of Utah, and 5-mgal contour interval. Abstracts published in 1971, 1972, and 1974 (see Index Map C, 39 and Miscellaneous Publications). [U of U]
13. Johnson, J. B., Jr., 1956, Regional gravity survey of parts of Tooele, Juab, and Millard counties, Utah. Ph. D. thesis, 34 p. Published in 1957; abstract published in 1970 (see Index Map C, 13a and 13b). [U of U]
14. Calkins, W. G., 1970, Magnetic and gravity survey of Desert Mountain, Juab County, Utah: M. S. thesis, 64 p. Published in 1972 (see Index Map C, 14). [U of U]
15. Crosson, R. S., 1964, Regional gravity survey of parts of western Millard and Juab counties, Utah: M. S. thesis, 34 p. Copyright 1971.[1] Abstract published in 1970 (see Index Map C, 15). [U of U]
16. Wang, Y. F., 1970, Geological and geophysical studies of the Gilson Mountains and vicinity, Juab County, Utah: Ph. D. thesis, 126 p. In preparation for publication. [U of U]
17. Isherwood, W. F., 1967, Regional gravity survey of parts of Millard, Juab, and Sevier counties, Utah: M. S. thesis, 32 p. Copyright 1971.[1] Abstract published in 1969 (see Index Map C, 17). [U of U]
18. Brown, K. P., 1974, Regional gravity survey of Sanpete and Sevier Valleys and adjacent areas, in parts of Sanpete, Sevier, Millard, and Juab counties, Utah: M. S. thesis. Unpublished. [U of U]
19a. U. S. Geological Survey; authors as follows: Byerly, P. E., and Joesting, H. R., 1959[2]; Case, J. E., 1966, 1972[2]; Case, J. E., and Joesting, H. R., 1961[2]; Case, J. E., Joesting, H. R., and Byerly, P. E., 1963[2]; Joesting, H. R., and Case, J. E., 1960; 1962; and 1970[2]; Joesting, H. R., Case, J. E., and Plouff, Donald, 1962; 1966; and 1970.[2] [USGS]
19b. Oil companies–same as Index Map A, 9a. [Oil Co.]
20. Mudgett, P. M., 1964, Regional gravity survey of parts of Beaver and Millard counties, Utah: M. S. thesis, 19 p. Copyright 1971.[1] Abstracts published in 1966 and 1970 (see Index Map C, 20a and 20e). [U of U]
21. Sontag, R. J., 1965, Regional gravity survey of parts of Beaver, Millard, Piute, and Sevier counties, Utah: M. S. thesis, 30 p. Copyright 1971.[1] Abstract published in 1970 (see Index Map C, 21). In preparation for publication. [U of U]
22. Hardman, Elwood, 1964, Regional gravity survey of central Iron and Washington counties, Utah: M. S. thesis, 107 p. Published in 1967; abstract published in 1970 (see Index Map C, 22a and 22c). [U of U]
23. Fox, R. C., 1968, A gravity survey of south-central Utah, including gravity profiles across the Paunsaugunt fault: M. S. thesis, 81 p. In preparation for publication. [U of U]

Index Map B–Profiles[1]
[indicated by letter designations]

A. Gray, R. C., 1966, Crustal structure from Nevada Test Site to Kansas as determined by a gravity profile: M. S. thesis, 97 p. Abstracts published in 1965, 1966, 1967, and 1970 (see Miscellaneous Publications). [U of U]
Note: Profile extends west to east as follows: Nevada Test Site, Caliente (Nev.), Cedar City, Escalante, Hanksville, Monticello, eastward through Colorado to Kansas.
B. Smith, J. T., 1973, An interpretation of gravity anomalies of northeastern Utah: M. S. thesis, 74 p. Copyright 1973.[1] Abstract published in 1974 (see Index Map C, 39). [U of U]
Note: Profile extends west to east as follows: Fremont Junction, Green River (Ut.).
C. Tanis, J. T., 1963, Isostasy and crustal thickness in Utah and adjacent areas as revealed by gravity profiles: Ph. D. thesis. Copyright 1971.[1] [U of U]
Note: Three profiles extend west to east as follows:
(C-1) Lucin, Promontory Point, Ogden, Evanston (Wyo.).
(C-2) Wendover, Salt Lake City, Heber, Vernal.
(C-3) Baker (Nev.), Delta, Nephi, Castle Dale, Green River, Cisco.
D. Zimbeck, D. A., 1965, Gravity survey along northward-trending profiles across the boundary between the Basin and Range province and Colorado Plateau: M. S. thesis, 111 p. Copyright 1971.[1] Abstracts published in 1965, 1966, 1967, and 1970 (see Miscellaneous Publications). [U of U]
Note: Profiles extend south to north as follows:
(D-1) Hurricane, Cedar City, Milford, Delta, Tooele, Salt Lake City, Ogden, Brigham City, Cornish.
(D-2) Kanab, Panguitch, Richfield, Manti, Heber, Evanston (Wyo.), Garden City (Ut.)

Index Map C–Publications

1a. Cook, K. L., Halverson, M. O., Stepp, J. C., and Berg, J. W., Jr., 1964, Regional gravity survey of the northern Great Salt Lake Desert and adjacent areas in Utah, Nevada, and Idaho: Geol. Soc. America Bull., v. 75, p. 715-740.
Note: Typographical errors exist for some of the gravity base stations listed on page 740 of this paper.
1b. Cook, K. L., and Khattab, M. M. M., 1969, Thrusting in northwestern Utah indicated by gravity and magnetic surveys (abstract): Abstracts with programs for 1969–Part 5, Rocky Mountain Section 22nd Annual Meeting, Geol. Soc. America, May 7-11, 1969, Salt Lake City, Utah, p. 17.
1c. Halverson, M. O., 1970, Regional gravity survey of northwestern Utah and part of southern Idaho (abstract): *in* Childers, B. S., comp. and ed., assisted by B. Y. Smith, Abstracts of theses concerning the geology of Utah to 1966, Utah Geological and Mineral Survey, Bulletin 86, p. 68.
1d. Stepp, J. C., 1970, Regional gravity survey of parts of Tooele and Box Elder counties, Utah, and Elko County, Nevada (abstract): *in* Childers, B. S., comp. and ed., assisted by B. Y. Smith, Abstracts of theses concerning the geology of Utah to 1966, Utah Geological and Mineral Survey, Bulletin 86, p. 152.
1e. Cook, K. L., and Khattab, M. M. M., 1975, Gravity and magnetic surveys of the Grouse Creek Mountains, the Raft River Mountains area and vicinity, Utah and Idaho: Utah Geol. and Mineral Survey publication. In press.
3. Quitzau, R. P., 1970, A regional gravity survey of the back valleys of the Wasatch Mountains and adjacent areas in Utah, Idaho and Wyoming (abstract): *in* Childers, B. S., comp. and ed., assisted by B. Y. Smith, Abstracts of theses concerning the geology of Utah to 1966, Utah Geological and Mineral Survey, Bulletin 86, p. 133.
4a. Cook, K. L., Berg, J. W., Jr., Johnson, W. W., and Novotny, R. T., 1966, Some Cenozoic structural basins in the Great Salt Lake area, Utah, indicated by regional gravity surveys: Guidebook to Geology of Utah, Utah Geol. Soc., v. 20, p. 57-75.
4b. Cook, K. L., Iverson, R. M., and Strohmeier, M. T., 1967, Bottom gravity meter survey of the Great Salt Lake, Utah (abstract): EOS, Am. Geophys. Union Trans., v. 50, p. 321. Abstract also published in program of papers presented at annual meeting of the Rocky Mountain section, Geol. Soc. of America, Salt Lake City, Utah, May 7-11, 1969, p. 16.
5. Lum, Daniel, 1970, Regional gravity survey of the north central Wasatch Mountains and vicinity, Utah (abstract): *in* Childers, B. S., comp. and ed., assisted by B. Y. Smith, Abstracts of theses concerning the geology of Utah to 1966, Utah Geological and Mineral Survey, Bulletin 86, p. 68.
6. Novotny, R. T., 1970, A gravity and magnetic study of Antelope Island, Great Salt Lake, Davis County, Utah (abstract): *in* Childers, B. S., comp. and ed., assisted by B. Y. Smith, Abstracts of theses concerning the geology of Utah to 1966, Utah Geological and Mineral Survey, Bulletin 86, p. 118.
7a. Cook, K. L., and Berg, J. W., Jr., 1961, Regional gravity survey along the central and southern Wasatch front, Utah: U. S. Geol. Survey Prof. Paper 316-E, p. 75-89.
7b. Arnow, Ted, and Mattick, R. E., 1968, Thickness of valley fill in the Jordan Valley east of the Great Salt Lake, Utah: *in* Geological Survey Research 1968, U. S. Geol. Survey Prof. Paper 600-B, p. B79-B81.
7c. Mattick, R. E., 1970, Thickness of unconsolidated to semiconsolidated sediments in Jordan Valley, Utah: *in* Geological Survey Research 1970, U. S. Geol. Survey Prof. Paper 700-C, p. C119-C124.
7d. Cook, K. L., and Berg, J. W., Jr., 1972, Principal facts for gravity stations along the central and southern Wasatch front, Utah: U. S. Geol. Survey Rept. USGS-72-018, 32 p.; available only from U. S. Dept. Commerce Natl. Tech. Inf. Service, Springfield, Va. 22151, as Rept. PB-206-675.
8. Behrendt, J. C., and Thiel, Edward, 1963, A gravity and magnetic survey of the Uinta Mountains: Jour. Geophys. Res., v. 68, p. 857-868.
9. Smith, J. T., and Cook, K. L., 1974, Geologic interpretation of gravity anomalies of northeastern Utah (abstract): Abstract of Program, 44th annual international meeting, Society of Exploration geophysicists, Dallas, Texas, November 10-14, 1974, p. 72.
10. Johnson, W. W., 1970, Regional gravity survey of part of Tooele County, Utah (abstract): *in* Childers, B. S., comp. and ed., assisted by B. Y. Smith, Abstracts of theses concerning the geology of Utah to 1966, Utah Geological and Mineral Survey, Bulletin 86, p. 84.
12a. Mabey, D. R., 1960, Regional gravity survey of part of Basin and Range province: *in* Short papers in the geological sciences, Geological Survey Research 1960, U. S. Geol. Survey Prof. Paper 400B, p. B283-B285.
12b. Cook, K. L., and Montgomery, J. R, 1971, East-west structural trends in eastern Basin and Range province as indicated by gravity data (abstract): EOS, Am. Geophys. Union Trans., v. 52, p. 350.
Note: Same paper also given at:
(1) Symposium: Gravity fields and earth structure, Abstracts with Programs, v. 4, no. 5, March 1972, Boulder, Colo., North-Central Section 6th annual meeting, Geol. Soc. America, Dekalb, Ill., May 11-12, 1972, p. 317; and
(2) Section 9, Exploration Geophysics, Internat. Geol. Congress, 24th session, Montreal, Canada, p. 175, August 1972.
12c. Cook, K. L., and Montgomery, J. R, 1974, Crustal structure and east-west transverse structural trends in eastern Basin and Range province as indicated by gravity data (abstract): *in* Program with Abstracts, Geol. Soc. of America, Cordilleran Section, 70th annual meeting, Las Vegas, Nev., March 29-31, 1974, v. 6, no. 3, Feb. 1974, Boulder, Colo., p. 158.
13a. Johnson, J. B., Jr., and Cook, K. L., 1957, Regional gravity survey of parts of Tooele, Juab, and Millard counties, Utah: Geophysics, v. 22, p. 48-61.
13b. Johnson, J. B., Jr., 1970, Regional gravity survey of parts of Tooele, Juab, and Millard counties, Utah (abstract): *in* Childers, B. S., comp. and ed., assisted by B. Y. Smith, Abstracts of theses concerning the geology of Utah to 1966, Utah Geological and Mineral Survey, Bulletin 86, p. 83.
14. Calkins, W. G., 1972, Magnetic and gravity study of Desert Mountain, Juab County, Utah: Utah Geological and Mineral Survey Bull. 95, 21 p.
15. Crosson, R. S., 1970, Regional gravity survey of parts of western Millard and Juab counties, Utah (abstract): *in* Childers, B. S., comp. and ed., assisted by B. Y. Smith, Abstracts of theses concerning the geology of Utah to 1966, Utah Geological and Mineral Survey, Bulletin 86, p. 43.
17. Isherwood, W. F., 1969, Regional gravity survey of parts of Millard, Juab, and Sevier counties, Utah (abstract): Abstracts with Programs for 1969–Part 5, Rocky Mountain Section 22nd Annual Meeting, Geol. Soc. America, May 7-11, 1969, Salt Lake City, Utah, p. 35.
20a. Cook, K. L., and Mudgett, P. M., 1966, Regional gravity survey of the Mineral, San Francisco, Beaver, and Northern Wah Wah Mountains, in Beaver and Millard counties, Utah (abstract): Utah Acad. Sciences, Arts and Letters Proc., v. 43, Part 2, p. 62; *also* Geophysics, v. 31, p. 1194.
20b. Peterson, D. L., 1966, Complete Bouguer gravity anomaly map of the San Francisco Mountains vicinity, Beaver and Millard counties, Utah: U. S. Geol. Survey open-file map.
20c. Buttgereit, C. D., 1968, A quantitative study of the least-squares method of residual potential field determination: M. S. thesis, University of Utah, Salt Lake City, 96 p. In preparation for publication.
20d. Buttgereit, C. D., 1969, Residual analysis of potential field data over structures in Utah and Colorado (abstract): Abstracts with Programs for 1969–Part 5, Rocky Mountain Section 22nd Annual Meeting, Geol. Soc. America, May 7-11, 1969, Salt Lake City, Utah, p. 11.
20e. Mudgett, P. M., 1970, Regional gravity survey of parts of Beaver and Millard counties, Utah (abstract): *in* Childers, B. S., comp. and ed., assisted by B. Y. Smith, Abstracts of theses concerning the geology of Utah to 1966, Utah Geological and Mineral Survey, Bulletin 86, p. 113.
20f. Schmoker, J. W., 1972, Analysis of gravity and aeromagnetic data, San Francisco Mountains and vicinity, southwestern Utah: Utah Geol. and Mineral Survey Bull. 98, 24 p.
21. Sontag, R. J., 1970, Regional gravity survey of parts of Beaver, Millard, Piute, and Sevier counties, Utah (abstract): *in* Childers, B. S., comp. and ed., assisted by B. Y. Smith, Abstracts of theses concerning the geology of Utah to 1966, Utah Geological and Mineral Survey, Bulletin 86, p. 148.
22a. Cook, K. L., and Hardman, Elwood, 1967, Regional gravity survey of the Hurricane fault area and Iron Springs district, Utah: Geol. Soc. America Bull., v. 78, p. 1063-1076.
22b. Buttgereit, C. D., 1969, same as Index Map C, 20c and 20d.
22c. Hardman, Elwood, 1970, Regional gravity survey of central Iron and Washington counties, Utah (abstract): *in* Childers, B. S., comp. and ed., assisted by B. Y. Smith, Abstracts of theses concerning the geology of Utah to 1966, Utah Geological and Mineral Survey, Bulletin 86, p. 71.
23. Fox, R. C., 1969, Regional gravity survey of part of the Kaiparowits region, Kane and Garfield counties, Utah, with profiles across the Paunsaugunt fault (abstract): Abstracts with Programs for 1969–Part 5, Rocky Mountain Section 22nd Annual Meeting, Geol. Soc. America, May 7-11, 1969, Salt Lake City, Utah, p. 24-25.
24. Stanley, W. D., 1972, Geophysical study of unconsolidated sediments and basin structure in Cache Valley, Utah and Idaho: Geol. Soc. America Bull., v. 83, p. 1817-1830.
25a. Stewart, S. W., 1958, Gravity survey of Ogden Valley in the Wasatch Mountains, north-central Utah: Am. Geophys. Union Trans., v. 39, p. 1151-1157.
25b. Stewart, S. W., 1970, Gravity survey of Ogden Valley, Weber County, Utah (abstract): *in* Childers, B. S., comp. and ed., assisted by B. Y. Smith, Abstracts of theses concerning the geology of Utah to 1966, Utah Geological and Mineral Survey, Bulletin 86, p. 153.
26. Cook, K. L., Berg, J. W., Jr., and Lum, Daniel, 1967, Seismic and gravity profile across the northern Wasatch trench, Utah: *in* Seismic Refraction Prospecting, edited by A. W. Musgrave, Society of Exploration Geophysicists, Tulsa, Okla., p. 539-549.
27. Mabey, D. R., Tooker, E. W., and Roberts, R. J., 1963, Gravity and magnetic anomalies in the northern Oquirrh Mountains, Utah: U. S. Geol. Survey Prof. Paper 450-E, p. E28-E31.
28. Mabey, D. R., and Morris, H. T., 1967, Geologic interpretation of gravity and aeromagnetic maps of Tintic Valley and adjacent areas, Tooele and Juab counties, Utah: U. S. Geol. Survey Prof. Paper 516-D, p. D1-D10.
29. Case, J. E., 1972, Regional geophysical investigations in the central Colorado Plateau: U. S. Geol. Survey Prof. Paper 736, 31 p.
30. Joesting, H. R., and Case, J. E., 1962, Regional geophysical studies in the Salt Valley-Cisco area, Utah and Colorado: Am. Assoc. Petroleum Geologists Bull., v. 46, p. 1879-1889.
31. Case, J. E., 1966, Gravity and magnetic anomalies over Precambrian rocks, northwestern Uncompahgre Plateau, Utah and Colorado: Am. Assoc. Petroleum Geologists Bull., v. 50, p. 1423-1443.
32a. Joesting, H. R., and Plouff, Donald, 1958, Geophysical studies of the Upheaval Dome area, San Juan County, Utah: *in* Intermountain Assoc. Petroleum Geologists Guidebook 9th Ann. Field Conf., 1958, p. 86-92.
32b. Joesting, H. R., Case, J. E., and Plouff, Donald, 1962, Regional gravity survey of the Moab-Needles area, Grand, San Juan, Emery, Garfield, and Wayne counties, Utah: U. S. Geol. Survey open-file report, 15 p.
32c. Joesting, H. R., Case, J. E., and Plouff, Donald, 1966, Regional geophysical investigations of the Moab-Needles area, Utah: U. S. Geol. Survey Prof. Paper 516-C, 21 p.
32d. Joesting, H. R., Case, J. E., and Plouff, Donald, 1970, Principal facts for gravity stations in the Moab-Needles area, Grand and San Juan counties, Utah; and for the Lisbon Valley area, San Juan County, Utah, and Montrose and San Miguel counties, Colorado: U. S. Geol. Survey Rept. USGS-GD-71-014, 24 p.; available only from U. S. Dept. Commerce Natl. Tech. Inf. Service, Springfield, Va. 22151, as Rept. PB-199-650.
33a. Joesting, H. R., and Case, J. E., 1960, Salt anticlines and deep-seated structures in the Paradox basin, Colorado and Utah, *in* Short papers in the geological sciences: U. S. Geol. Survey Prof. Paper 400-B, p. B252-B256.
33b. Steenland, N. C., 1962, Gravity and aeromagnetic exploration in the Paradox basin: Geophysics, v. 27, p. 73-89.
33c. Joesting, H. R., 1962, Discussion of "Gravity and aeromagnetic exploration in the Paradox basin" by N. C. Steenland (Geophysics, v. 27, p. 73-89, 1962): Geophysics, v. 27, p. 396-398.
33d. Byerly, P. E., 1962, Discussion of "Gravity and aeromagnetic exploration in the Paradox basin" by N. C. Steenland (Geophysics, v. 27, p. 73-89, 1962): Geophysics, v. 27, p. 398.
33e. Case, J. E., Joesting, H. R., and Byerly, P. E., 1963, Regional geophysical investigations in the La Sal Mountains area, Utah and Colorado: U. S. Geol. Survey Prof. Paper 316-F, p. 97-116.
33f. Joesting, H. R., and Case, J. E., 1971, Principal facts for gravity stations in the La Sal Mountains area, Grand and San Juan counties, Utah, and Mesa and Montrose counties, Colorado: U. S. Geol. Survey Rept. USGS-GD-71-018, 18 p.; available only from U. S. Dept. Commerce Natl. Tech. Inf. Service, Springfield, Va. 22151, as Rept. PB-202-097.
34a. Byerly, P. E., and Joesting, H. R., 1959, Regional geophysical investigations of the Lisbon Valley area, Utah and Colorado: U. S. Geol. Survey Prof. Paper 316-C, p. 39-50.
34b. Same as Index Map C, 33a.
34c. Same as Index Map C, 33b.
34d. Same as Index Map C, 33c.
34e. Same as Index Map C, 33d.
35. Case, J. E., and Joesting, H. R., 1961, Precambrian structures in the Blanding basin and Monument upwarp, southeast Utah: *in* Short papers in the geologic and hydrologic sciences, U. S. Geol. Survey Prof. Paper 424-D, p. D287-D291.
36. Peterson, D. L., 1974, Bouguer gravity map of part of the northern Lake Bonneville basin, Utah and Idaho: U. S. Geological Survey Miscellaneous Field Studies Map MF-627.
37. Cook, K. L., Montgomery, J. R, and Smith, J. T., 1974, Structural trends in Utah as indicated by gravity data: EOS, Am. Geophys. Union Trans., v. 56, no. 12, p. 1193.
38. Peterson, D. L., 1972, Complete Bouguer gravity anomaly map of parts of Beaver, Iron, and Millard counties, Utah: U. S. Geol. Survey open-file map.
39. Peterson, D. L., and Oriel, S. S., 1970, Gravity anomalies in Cache Valley, Cache and Box Elder counties, Utah, and Bannock and Franklin counties, Idaho, *in* Geological Survey research 1970: U. S. Geol. Survey Prof. Paper 700-C, p. C114-C118.

Miscellaneous Publications Relating to Gravity of Utah

Behrendt, J. C., and Woollard, G. P, 1961, An evaluation of the gravity control network in North America: Geophysics, v. 26, p. 57-76.
Cook, K. L., 1965, Gravity studies in Utah: Am. Geophys. Union Trans., v, 46, p. 569-573.
Cook, K. L., 1969, Gravity surveys in Utah: EOS, Am. Geophys. Union Trans., v. 50, p. 538-541.
Cook, K. L., 1971, Gravity studies in Utah (abstract): *in* Upper Mantle Project–United States Program, Final Report, U. S. Upper Mantle Committee, Nat. Acad. of Sciences, Nat. Research Council, Washington, D. C., July 1971, p. 152-153.
Cook, K. L., Costain, J. K., Zimbeck, D. A., and Gray, R. C., 1965, Gravity studies along a portion of the Transcontinental Geophysical Survey (abstract): U. S. Program for the International Upper Mantle Project, Progress Report, 1965, National Academy of Sciences, National Research Council, p. 73, August 1965.
Cook, K. L., and Montgomery, J. R, 1971, East-west transverse structural trends in eastern Basin and Range province as indicated by gravity data (abstract): EOS, Am. Geophys. Union Trans., v. 52, p. 350; abstract also *in* (1) Symposium: Gravity fields and earth structure, Abstracts with Programs, v. 4, no. 5, March 1972, Boulder, Colo., North-central Section 6th annual meeting, Geol. Soc. America, DeKalb, Illinois, May 11-12, 1972, p. 315, and (2) Section 9, Exploration Geophysicists, Internatl. Geol. Congress, 24th Session, Montreal, Canada, August 1972, p. 175.
Cook, K. L., and Montgomery, J. R, 1974, Crustal structure and east-west transverse structural trends in eastern Basin and Range province as indicated by gravity data (abstract): *in* Program with Abstracts, Geol. Soc. America, Cordilleran Section, 70th annual meeting, Las Vegas, Nevada, March 29-31, 1974, v. 6, no. 3, Boulder, Colo., p. 158.
Cook, K. L., Nilson, T. H., and Lambert, J. F., 1971, Gravity base station network in Utah–1967: Utah Geol. and Mineral Survey Bull. 29, 57 p.
Note: This gives the principal facts of 46 gravity base stations in Utah.
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Scale 1:1,000,000
1 inch equals approximately 16 miles

Datum is mean sea level
GRAVITY ANOMALY CONTOUR INTERVAL 5 MILLIGALS

1927 North American datum Lambert conic projection based on standard parallels 33° and 45°

MAP 37
SIMPLE BOUGUER GRAVITY ANOMALY MAP OF UTAH

by
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