COMPOSITE MAGNETIC ANOMALY MAP OF THE UNITED STATES

PART A: CONTERMINOUS UNITED STATES

Compiled under the direction of

Isidore Zietz

UNITED STATES GEOLOGICAL SURVEY
In cooperation with
THE SOCIETY OF EXPLORATION GEOPHYSICISTS

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The accompanying magnetic-anomaly map of the conterminous United States and adjacent offshore areas was compiled as a cooperative effort by the U.S. Geological Survey and the Society of Exploration Geophysicists (Hinze, 1976). The map is published in two sheets in color showing magnetic-anomaly contours at an interval of 200 gammas (nanoteslas) with supplemental contours at an interval of 100 gammas on an Albers equal-area projection at the scale of 1:2,500,000. The map may be compared directly with the tectonic (U.S. Geol. Survey and Am. Assoc. Petroleum Geologists, 1961), Bouguer gravity anomaly (Am. Geophys. Union, 1964), basement rock (Bayley and Muehlberger, 1968), and geologic (King and Beikman, 1974) maps of the conterminous United States published by the U.S. Geological Survey in cooperation with professional societies.

Hundreds of magnetic-data sources were used in the map compilation. Most of them were total-intensity aeromagnetic-anomaly data; others included total-intensity ground and shipborne magnetic-anomaly data and vertical-intensity ground magnetic-anomaly data. Flight altitudes, directions, and spacings of aeromagnetic surveys varied widely; no attempt was made to analytically continue magnetic-anomaly data to a common altitude. The anomaly data were referenced to numerous magnetic-field datums; however, an attempt was made to adjust most anomaly data to a common magnetic-field datum. On the basis of comparisons with aeromagnetic-anomaly data of the U.S. Naval Oceanographic Office and the National Uranium Resource Evaluation (NURE) program of the Department of Energy, we inferred that the zero level of the compiled map is approximately 1,000 gammas higher than the zero level of data based on the International Geomagnetic Reference Field (IGRF). Because the quality of the map is limited by the diversity of data types, data-acquisition specifications and the compilation techniques, it is strongly recommended that the map be used only at the 1:2,500,000 publication scale or smaller scales of interest in broad regional investigations. For more detailed work at scales larger than the 1:2,500,000 publication scale, we recommend that original data sources be used.

Compilation involved the following steps: (1) Magnetic anomaly data of a given survey were inspected and, as necessary, were referenced to the IGRF (Fabiano and Peddie, 1969; Barraclough and Fabiano, 1978), adjusted for the time of the survey, and an arbitrary zero datum;[1] (2) contour lines at an interval of 100 or 200 gammas were selected; (3) the map of the selected contour lines was reduced to the 1:1,000,000 compilation scale; (4) the reduced map was placed on an albers equal-area projection master base map of the conterminous United States and offshore areas; (5) near the boundaries of adjacent surveys, contour lines were visually joined as smoothly as possible; and (6) where major discontinuities of anomaly values existed, contoured NURE data were used to guide the connecting of contour lines; and (7) the map at the 1:1,000,000 compilation scale was photographically reduced to the 1:2,500,000 publication scale.

The NURE data, acquired during a 7-year period for the conterminous United States and referenced to the IGRF, provided a reliable base net for controlling the compilation of individual surveys. As an independent check on the validity of the compilation, profiles from the map were compared with a series of north-south aeromagnetic traverses of the U.S. Naval Oceanographic Office (NOO). The traverses were flown in 1976 and 1977 and were spaced approximately one degree of longitude apart across the conterminous United States. This comparison shows that the compiled data agree with the NOO data, after adjustment to the IGRF, to within 100 gammas throughout the country. Magnetic profiles for the 83°W, 90°W, and 119°W meridians comparing total intensity magnetic anomaly data obtained from the NOO survey with those taken from the composite U.S. magnetic anomaly map are shown in Figure 1. The magnetic profiles along each meridian are arbitrarily displaced vertically to effect a better visual comparison.

Individual data sources used in the map compilation are shown on index maps. These index maps are keyed to the "Sources of Data" and "Specifications" (direction, altitude, and spacing of traverses), shown later in this pamphlet. Index maps for the Atlantic Ocean, Gulf of Mexico, and Pacific Ocean are included.

[1] *Exceptions*: IGRF 1965.0 not updated, was removed from total-intensity data of reference B, Illinois; reference E, Nebraska; reference A, Ohio; and reference 2, Oregon. A field of 9 gammas per mile north and 3.2 gammas per mile east was removed from vertical-intensity data of reference F, South Dakota. Unknown reference fields were removed from vertical-intensity data of reference H, Missouri, and reference 38, New Mexico. It is not known whether a reference field has been removed from the total-intensity or vertical-intensity data of reference 26, New Mexico.

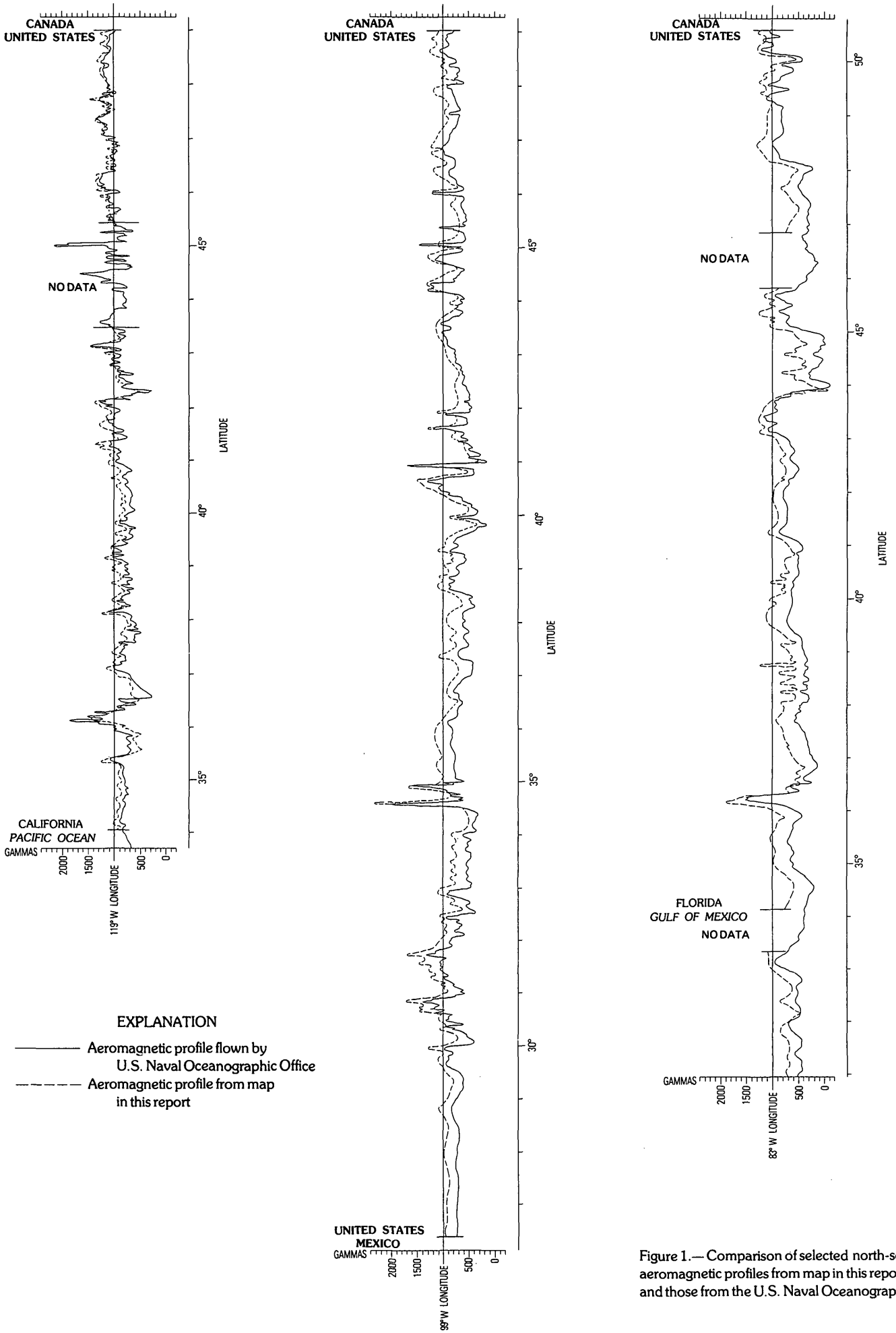

Figure 1.— Comparison of selected north-south aeromagnetic profiles from map in this report and those from the U.S. Naval Oceanographic Office.

Acknowledgements

The cooperative arrangement between the U.S. Geological Survey and the Society of Exploration Geophysicists, effected in 1975, resulted in formation of the National Magnetic Anomaly Map (NMAM) Committee, which interacted with a group of U.S. Geological Survey personnel. Current members of the NMAM Committee are:

William J. Hinze, Chairman (Purdue University)
Anthony R. Barringer (Barringer Research Inc.)
Sheldon Breiner (Geometrics)
LeRoy Brow (Exxon Production Research Co.)
James E. Case (U.S. Geological Survey)
Howard L. Cobb (Atlantic Richfield Co.)
John D. Corbett (Anaconda Minerals Co.)
Michael D. Fuller (University of California at Santa Barbara)
James R. Heirtzler (Woods Hole Oceanographic Inst.)
Charles E. Helsley (University of Hawaii)
Robert H. Higgs (U.S. Naval Oceanographic Office)
Robert A. Langel (U.S. National Aeronautics & Space Admin.)
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Emil J. Mateker, Jr. (Aero Service Co.)
Alfred J. Navazio (Carson Helicopters)
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Paul H. Serson (Canada Dept. of Energy, Mines & Resources)
Kendall L. Svendsen (U.S. National Oceanic & Atmospheric Admin.)
Eric E. Wicherts (Amoco International Co.)
Richard J. Wold (U.S. Geological Survey)
Isidore Zietz (Phoenix Corp.)
W. Glen Zinn (Moly Corp. Inc.)

Previous members of the committee and their affiliation during their period of participation are:

Joseph W. Berg, Jr. (National Academy of Sciences)
Bimal K. Bhattacharyya (Deceased) (U.S. Geological Survey)
Ernest J. Iufer (U.S. National Aeronautics & Space Admin.)
John F. Landau (Gulf Research & Development Co.)
P. L. Lawrence (Mobil Oil Corporation)
D. Beadle Moore (Exxon Co., U. S. A.)
Robert F. McMahon (Chevron Oil Co.)
Robert D. Regan (U.S. Geological Survey)

U.S. Geological Survey coordinators of the cooperative effort were Martin F. Kane, William F. Hanna, Gordon P. Eaton, and Charles J. Zablocki. Richard D. Hovey (Chevron Overseas Petroleum Co.) and Val W. Chandler (Minnesota Geological Survey) assisted the Editorial Committee in reviewing selected areas of preliminary versions of the map.

The Amoco Production Company, Chevron Oil Company, Gulf Oil Corporation, and Mobil Exploration and Production Services contributed data to the map. Compilation of the map was performed by Kevin R. Bond, Francis P. Gilbert (Deceased), John R. Kirby, Frederic E. Riggle, and Stephen L. Snyder, all of the U.S. Geological Survey.

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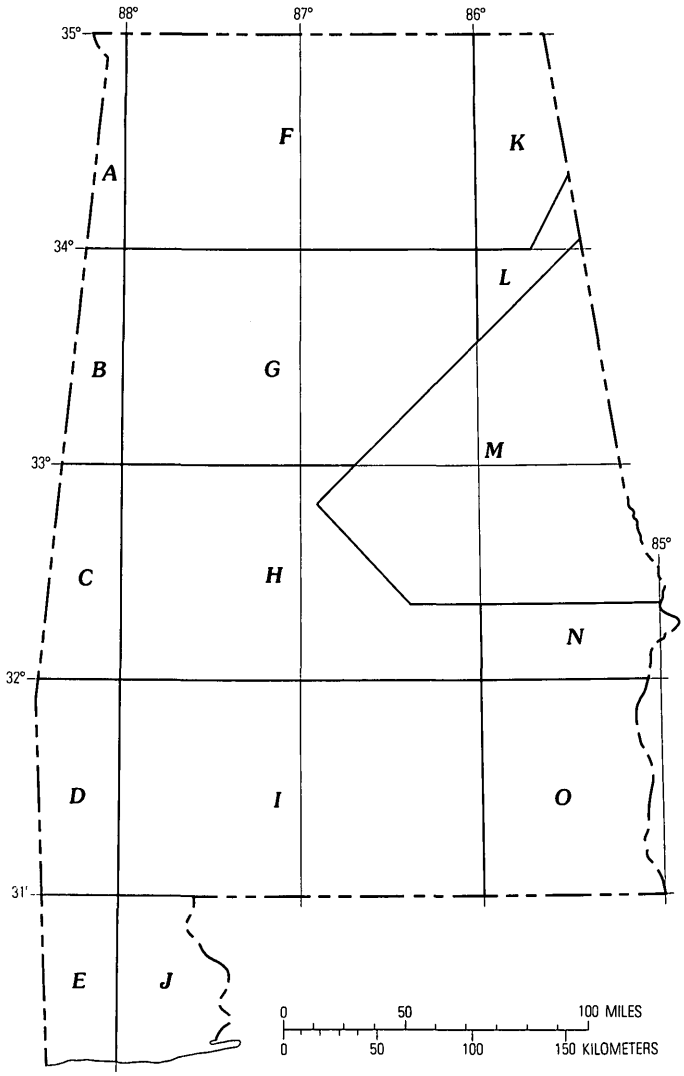
ALABAMA



SPECIFICATIONS

A East-West, 400 feet above ground, 6 mile (EG&G GeoMetrics, 1980d)
B East-West, 400 feet above ground, 6 mile (EG&G GeoMetrics, 1980c)
C East-West, 400 feet above ground, 6 mile (EG&G GeoMetrics, 1980a)
D East-West, 400 feet above ground, 6 mile (EG&G GeoMetrics, 1980b)
E East-West, 400 feet above ground, 6 mile (EG&G GeoMetrics, 1980e)
F East-West, 400 feet above ground, 6 mile (North half) and 3 mile (South half) (High Life/QEB, 1980)
G East-West, 400 feet above ground, 3 mile (High Life/QEB, 1980)
H East-West, 400 feet above ground, 3 mile (North half) and 6 mile (South half) (Geodata, 1980a)
I East-West, 400 feet above ground, 6 mile (EG&G GeoMetrics, 1981c)
J East-West, 400 feet above ground, 6 mile (EG&G GeoMetrics, 1981b)
K East-West, 400 feet above ground, 6 mile (Carson Helicopters, 1980)
L Northwest-Southeast, 1000 feet terrain clearance, 1½ mile (Geoterrex, 1969)
M North-South, 152 meters above ground, 1.6 kilometers (Neathery and others, 1976)
N East-West, 400 feet above ground, 6 mile (Geodata, 1980b)
O East-West, 400 feet above ground, 6 mile (EG&G GeoMetrics, 1981a)

SOURCES OF DATA

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_____ 1980e, National Uranium Resource Evaluation aerial gamma-ray and magnetic reconnaissance survey, Mobile quadrangle, Louisiana, Mississippi, and Alabama—Final Report: U.S. Department of Energy Grand Junction Office [Report] GJBX 222-80, v. 2, n.p., scale 1:500,000.

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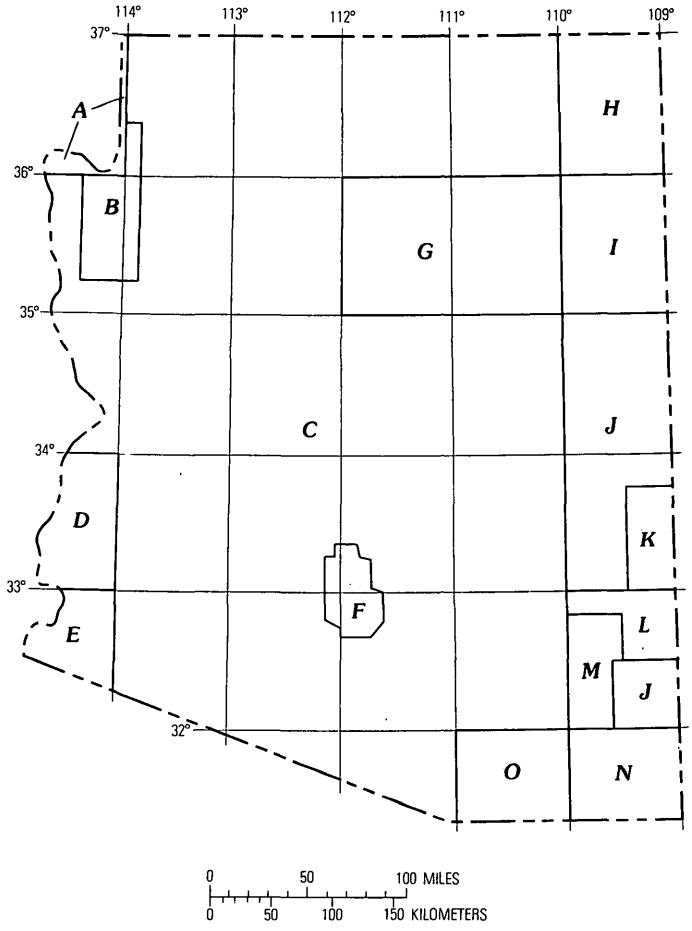

SPECIFICATIONS

- *A* East-West, 400 feet above ground, 3 mile (Western Geophysical Co., 1979)
- *B* North-South, 8000 feet barometric, 1 mile (USGS, 1972a)
- *C* North-South, 9000 feet above sea level, 3 mile (Sauck and Sumner, 1970)
- *D* North-South, 400 feet above ground, 3 mile (LKB Resources, Inc., 1980)
- *E* East-West, 400 feet above ground, 6 mile (LKB Resources, Inc., 1980).
- *F* North-South, 2400 feet barometric, 1 mile (Mitchell and Zandle, 1965)
- *G* East-West, 400 feet above ground, 3 mile (EG&G GeoMetrics, Inc., 1979a)
- *H* East-West, 400 feet above ground, 3 mile (EG&G GeoMetrics, Inc., 1979b)
- *I* East-West, 400 feet above ground, 3 mile (EG&G GeoMetrics, Inc., 1979b)
- *J* North-South, 11,000 feet above sea level, 3 mile (Sauck and Sumner, 1970)
- *K* East-West, 10,500 feet barometric, 1 mile (USGS, 1972b)
- *L* East-West, 1500 feet mean terrain clearance, 0.6 mile (USGS, 1979)
- *M* North-South, 1500 feet mean terrain clearance, 1 mile (USGS, 1979)
- *N* North-South, 400 feet above ground, 3 mile (Texas Instruments, Inc., 1979)
- *O* North-South, 9000 feet above sea level, 1.5 mile (Sauck and Sumner, 1970)

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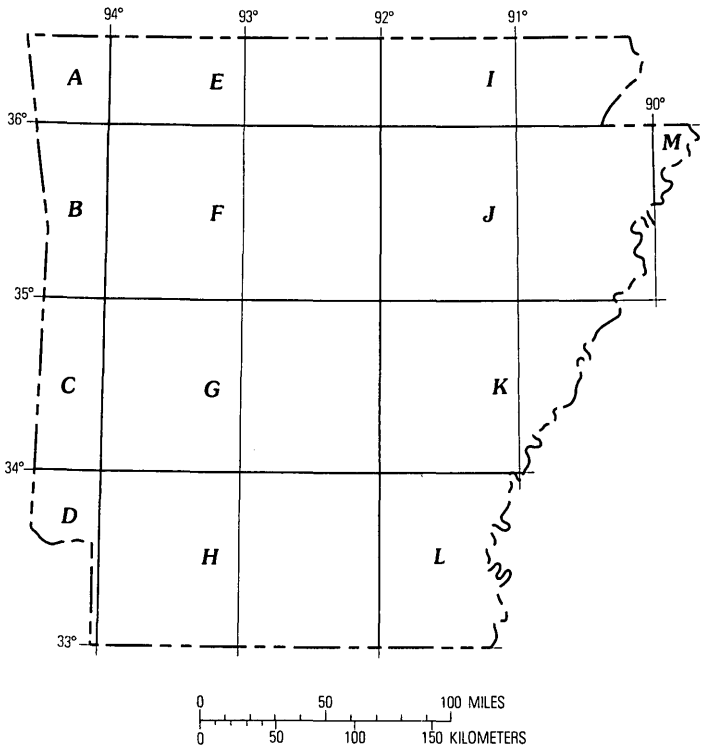
ARKANSAS



SPECIFICATIONS

- *A* East-West, 400 feet above ground, 3 mile (Texas Instruments, Inc., 1978)
- *B* East-West, 400 feet above ground, 6 mile (EG&G GeoMetrics, 1980f)
- *C* East-West, 400 feet above ground, 6 mile (Geo-Life, 1979b)
- *D* East-West, 400 feet above ground, 3 mile (EG&G GeoMetrics, 1980a)
- *E* East-West, 400 feet above ground, 6 mile (EG&G GeoMetrics, 1980b)
- *F* East-West, 400 feet above ground, 6 mile (EG&G GeoMetrics, 1980h)
- *G* North-South, 400 feet above ground, 3 mile (Geo-Life, 1979a)
- *H* East-West, 400 feet above ground, 6 mile (EG&G GeoMetrics, 1980d)
- *I* East-West, 400 feet above ground, 3 mile (Texas Instruments, Inc., 1980)
- *J* East-West, 400 feet above ground, 6 mile (EG&G GeoMetrics, 1980c)
- *K* East-West, 400 feet above ground, 6 mile (EG&G GeoMetrics, 1980g)
- *L* East-West, 400 feet above ground, 6 mile (EG&G GeoMetrics, 1980e)
- *M* East-West, 400 feet above ground, 6 mile (EG&G GeoMetrics, 1980i)

SOURCES OF DATA

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_____ 1980e, National Uranium Resource Evaluation aerial gamma-ray and magnetic reconnaissance survey, Greenwood quadrangle, Mississippi, Arkansas, and Louisiana—Final Report: U.S. Department of Energy Grand Junction Office [Report] GJBX 183-80, v. 2, n.p., scale 1:500,000.

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0 50 100 150 KILOMETERS

A East-West, 8500 feet barometric, 1 mile (Hotz and others, 1972)
B Unknown, 8000 feet barometric, unknown (Cal. Div. of Mines and Geol., 1979)
C Unknown, 7000 feet barometric, unknown (Cal. Div. of Mines and Geol., 1979)
D Unknown, 9500 feet barometric, unknown (Cal. Div. of Mines and Geol., 1979)
E Northeast-Southwest, 2900 meters barometric, 8 kilometers (unpublished data)
F Specifications unknown (unpublished data)
G East-West, 7000 feet barometric, 1 mile (Brown and others, 1978)
H East-West, 4500 feet barometric, 1 mile (USGS, 1973)
I Specifications unknown (Affleck, 1962)
J Specifications unknown (unpublished data)
K Northeast-Southwest, 3000 feet mean sea level, 1 mile (USGS, 1974c)
L Northeast-Southwest, 3000 feet mean sea level, 1 mile (USGS, 1974b)
M East-West, 1000 feet above ground, 1 mile (USGS, 1971c)
N Northeast-Southwest, 6000 feet barometric, 5 mile (Zietz and others, 1969)
O Northeast-Southwest, 500 feet above ground, 1 mile (Meuschke and others, 1966)
P Northeast-Southwest, 3000 feet barometric, 3 mile (Cady, 1975)
Q Northeast-Southwest, 4000 feet barometric, 3 mile (Cady, 1975)
R North-South, 3500 feet barometric, 0.5 mile (USGS, 1976)
S North-South, 5500 feet barometric, 0.5 mile (USGS, 1976)
T East-West, 9000 feet barometric, 1 mile (USGS, 1971b)
U East-West, 11,000 feet barometric, 1 mile (USGS, 1971b)
V East-West, 1000 feet above ground, 0.5 mile (USGS, 1969a)
W East-West, 1000 feet above ground, 0.5 mile (Henderson and others, 1966)
X East-West, 11,500 feet above sea level, 1 mile (Tooker and others, 1970)
Y Specifications unknown (unpublished data)
Z East-West, 13,500 feet above sea level, 1 mile (USGS, 1974d)
AA East-West, 9000 feet barometric, 1 mile (USGS, 1971a)
BB East-West, 15,000 feet barometric, 1 mile (USGS, 1971a)
CC East-West, 500 feet above ground, 1 mile (Henderson and others, 1963)
DD East-West, 13,500 feet barometric, 1 mile (USGS, 1969b)
EE East-West, 8000 feet barometric, 1 mile (USGS, 1969b)
FF East-West, 2500 feet barometric, 1 mile (USGS, 1969b)
GG Northeast-Southwest, 3000 feet mean sea level, 1 mile (USGS, 1974a)
HH Specifications unknown (unpublished data)
II Individual high altitude flight lines (unpublished data)
JJ Vertical intensity ground survey, 1 mile (unpublished data)
KK Northwest-Southeast, 6500 feet barometric, 4 mile (Hanna and others, 1972)
LL Specifications unknown (unpublished data)
MM Northeast-Southwest, 6500 feet barometric, 1 mile (Hanna, 1970)
NN Northeast-Southwest, 6500 feet mean sea level, 1 mile (USGS, 1974e)
OO Northeast-Southwest, 1000 feet terrain clearance, 0.5 mile (USGS, 1980a)
PP East-West, 400 feet above ground, 3 mile (High Life Helicopters, Inc./QEB, Inc., 1980a)
QQ North-South, 9000 feet barometric, 1 mile (USGS, 1975a)
RR North-South, 1000 feet above ground, 2 mile (USGS, 1980b)
SS North-South, 500 feet above ground, 1 mile (Andreasen and others, 1964c)
TT North-South, 500 feet above ground, 1 mile (Andreasen and others, 1964a)
UU North-South, 500 feet above ground, 1 mile (Andreasen and others, 1964b)
VV East-West, 400 feet above ground, 6 mile (High Life Helicopters, Inc./QEB, Inc., 1980b)
WW East-West, 400 feet above ground, 3 mile (High Life Helicopters, Inc./QEB, Inc., 1980b)
XX East-West, 14,000 feet barometric, 1 mile (unpublished data)
YY East-West, 1000 feet terrain clearance, 0.5 mile (USGS, 1979)
ZZ North-South, 400 feet above ground, 1 mile (Geo-Life, 1979a)
AAA East-West, 400 feet above ground, 3 mile (High Life Helicopters, Inc./QEB, Inc., 1980b)
BBB East-West, 400 feet above ground, 3 mile (Geo-Life, 1979b)
CCC East-West, 400 feet above ground, 3 mile (High Life Helicopters, Inc./QEB, Inc., 1980a)
DDD East-West, 9000 feet barometric, 3 mile (USGS, 1975b)
EEE East-West, 400 feet above ground, 3 mile (High Life Helicopters, Inc./QEB, Inc., 1980a)
FFF North-South, 400 feet above ground, 3 mile (LKB Resources, Inc., 1980)
GGG East-West, 400 feet above ground, 3 mile (High Life Helicopters, Inc./QEB, Inc., 1980a)
HHH East-West, 400 feet above ground, 6 mile (LKB Resources, Inc., 1980)
III East-West, 12,500 feet barometric, 5 mile (unpublished data)

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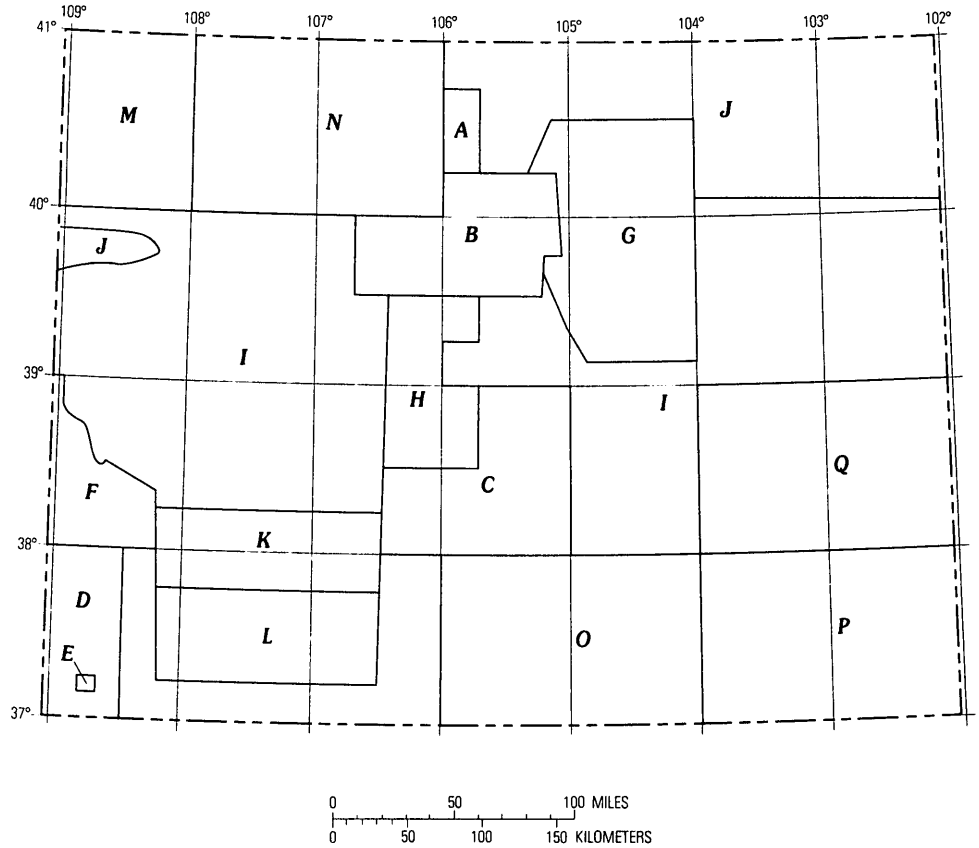
COLORADO



SPECIFICATIONS

A East-West, 13,000 feet barometric, 1 mile (USGS, 1970b)
B East-West, 14,000 feet barometric, 1 mile (USGS, 1968)
C East-West, 14,500 feet barometric, 1 mile (USGS, 1970a)
D East-West, 8500 feet barometric, 1 mile (Case and Joesting, 1972)
E East-West, 10,000 feet barometric, 1 mile (Case and Joesting, 1972)
F East-West, 500 feet above ground, 1 mile (Case and Joesting, 1972)
G East-West, 500 feet above ground, 1 mile (Petty and others, 1966)
H East-West, 14,500 feet barometric, 2 mile (USGS, 1978)
I East-West, 14,500 feet barometric, 5 mile (Zietz, and Kirby, 1972)
J East-West, 14,500 feet to 16,000 feet barometric, 5 mile (Zietz and others, 1969)
K East-West, 14,500 feet barometric, 1 mile (USGS, 1972)
L East-West, 14,000 feet barometric, 1 mile (USGS, 1972)
M East-West, 400 feet above ground, 3 mile (Geo-Life, 1979)
N East-West, 400 feet above ground, 3 mile (LKB Resources, Inc., 1979)
O East-West, 400 feet above ground, 3 mile (Texas Instruments, Inc., 1980)
P East-West, 400 feet above ground, 5 mile (Texas Instruments, Inc., 1978a)
Q East-West, 400 feet above ground, 5 mile (Texas Instruments, Inc., 1978b)

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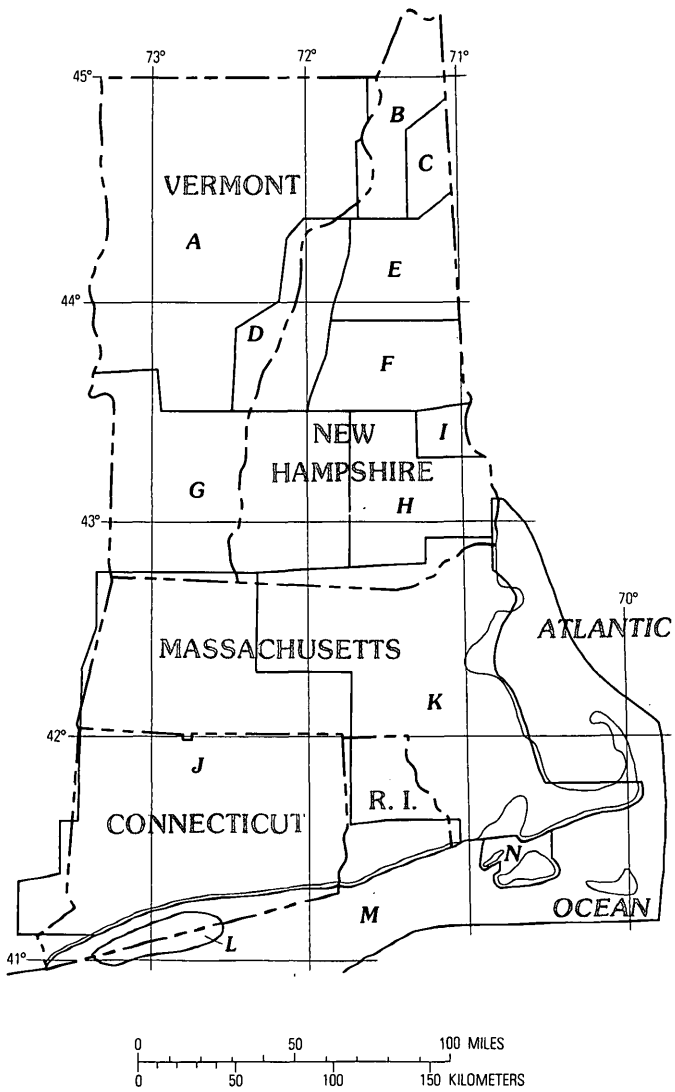

SPECIFICATIONS

- ***A*** East-West, 4000 feet barometric, 2 mile (Zietz and others, 1972)
- ***B*** North-South, 3500 feet barometric, ½ mile (Zietz and others, 1972)
- ***C*** North-South, 1000 feet above ground, ½ mile (Zietz and others, 1972)
- ***D*** East-West, 2300 feet barometric, ½ mile (Zietz and others, 1972)
- ***E*** East-West, 5500 feet barometric, ½ mile (Zietz and others, 1972)
- ***F*** East-West, 5000 feet barometric, ½ mile (Zietz and others, 1972)
- ***G*** East-West, 500 feet above ground, 1 mile (Zietz and others, 1972)
- ***H*** East-West, 2200 feet barometric, 2 mile (Zietz and others, 1972)
- ***I*** East-West, 750 feet above ground, ½ mile (Zietz and others, 1972)
- ***J*** East-West, 500 feet above ground, ½ mile (Zietz and others, 1972)
- ***K*** East-West, 400 feet above ground, ½ mile (Zietz and others, 1972)
- ***L*** Shipborne survey, specifications unknown (Zietz and others, 1972; Heirtzler, 1971)
- ***M*** Northwest-Southeast, 500 to 2500 feet barometric, 5 mile (Zietz and others, 1972; Taylor and others, 1968)
- ***N*** North-South, 400 feet above ground, ½ mile (Zietz and others, 1972)

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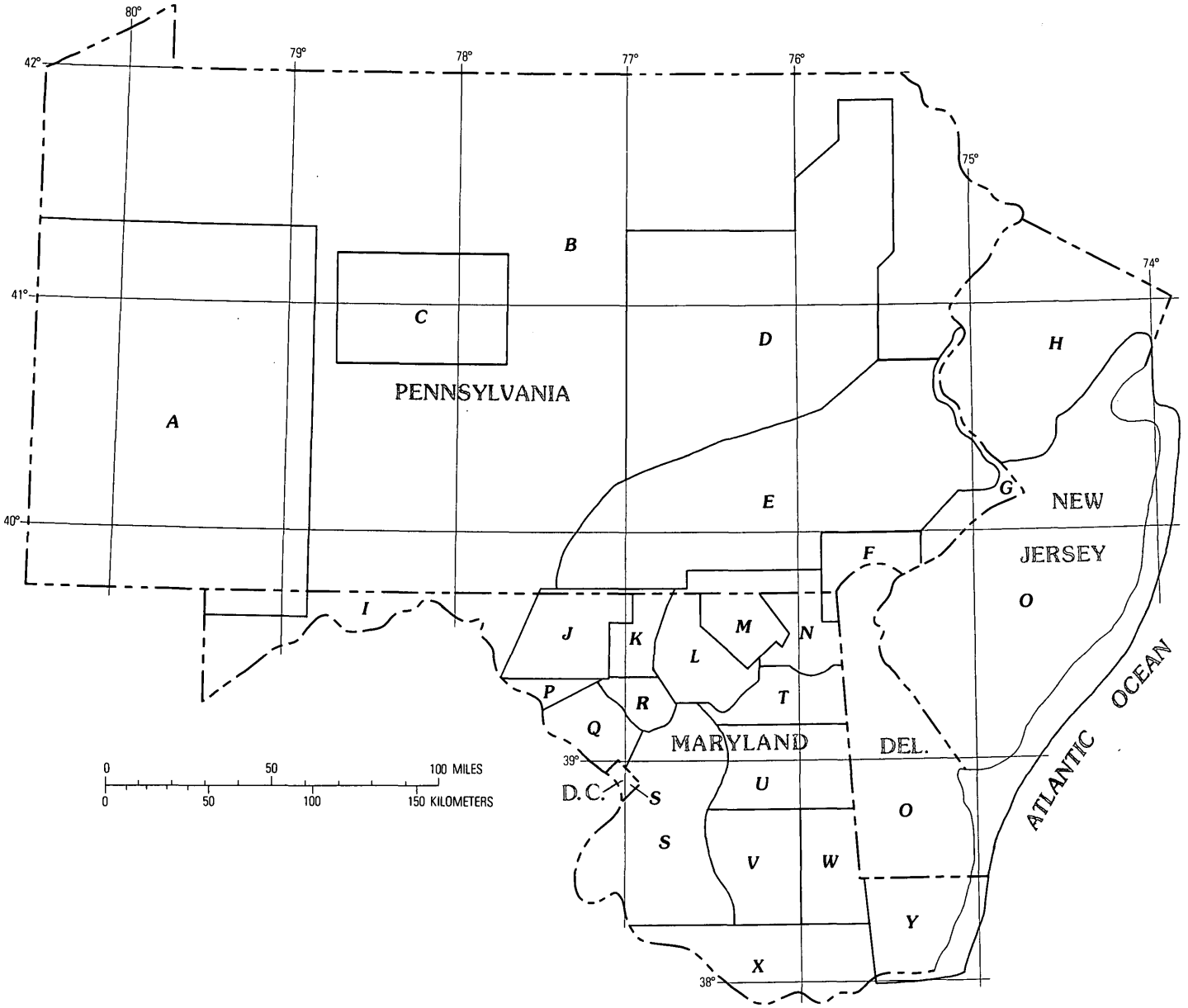

SPECIFICATIONS

A North-South, 500 feet above ground, 1 mile (Popenoe and others, 1964)
B North-South, 1000 feet above ground, 4 mile (USGS 1974a, b, c, d, e, f)
C North-South, 1000 feet above ground, ½ mile (Joesting and others, 1949)
D North-South, 3000 feet barometric, 2 mile (USGS, 1969)
E North-South, 500 feet above ground, ¼ mile (Bromery and Griscom, 1967)
F North-South, 1000 feet above ground, ½ mile (Henderson and others, 1963)
G North-South, 1000 feet barometric, 1 mile (USGS, 1974k)
H North-South, 500 feet above ground, ½ mile (Henderson and others, 1966)
I North-South, 1000 feet above ground, 4 mile (unpublished data)
J East-West, 500 feet above ground, 1 mile (USGS, 1973a)
K East-West, 500 feet above ground, 1 mile (USGS, 1974g)
L East-West, 500 feet above ground, ½ mile (Bromery, 1967)
M Northwest-Southeast, 500 feet above ground, ½ mile (Bromery and others, 1964)
N East-West, 400 feet above ground, ½ mile (USGS, 1971a)
O East-West, 500 feet above ground, 1 mile (USGS, 1979)
P East-West, 500 feet above ground, 1 mile (USGS, 1974h)
Q East-West, 500 feet above ground, 1 mile (USGS, 1974j)
R East-West, 500 feet above ground, 1 mile (USGS, 1974i)
S East-West, 500 feet above ground, 1 mile (unpublished data)
T East-West, 400 feet above ground, ½ mile (USGS, 1971b)
U East-West, 1200 feet barometric, 1 mile (USGS, 1974n)
V East-West, 1200 feet barometric, 1 mile (USGS, 1974m)
W East-West, 1200 feet barometric, 1 mile (USGS, 1974l)
X East-West, 1200 feet barometric, 1 mile (USGS, 1973b)
Y East-West, 1000 feet barometric, 1 mile (Balsley and others, 1946)

SOURCES OF DATA

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_____ 1974e, Aeromagnetic map of parts of the Warren and Buffalo 1° by 2° quadrangles, Pennsylvania: U.S. Geological Survey Open-File Report 74-16, scale 1:250,000.

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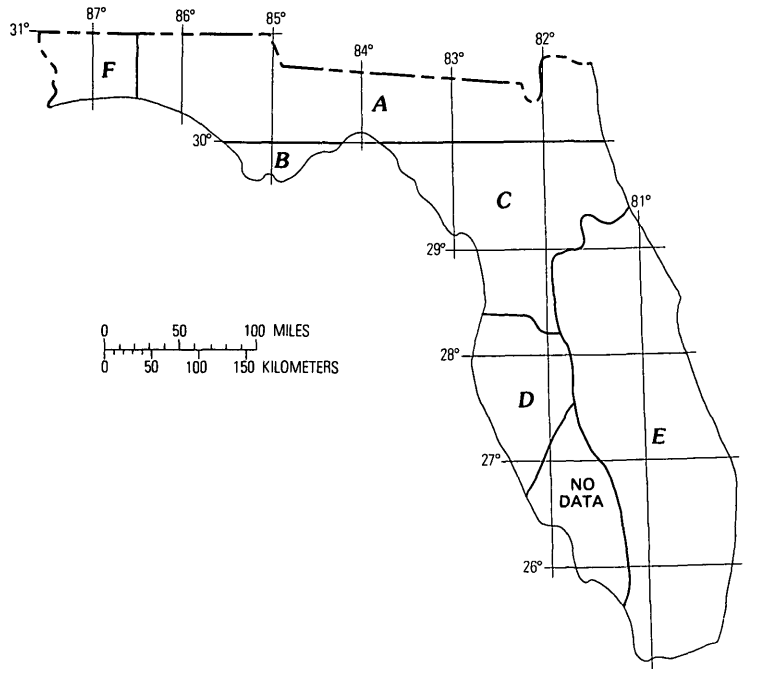
FLORIDA



SPECIFICATIONS

A East-West, 500 feet above ground, 1 mile (USGS, 1978c)
B East-West, 500 feet mean terrain clearance, 1 mile (USGS, 1978a)
C East-West, 500 feet mean terrain clearance, 1 mile (USGS, 1978b)
D Southwest-Northeast, 1000 feet above sea level, 5 nautical mile (US NOO, 1972)
E Northwest-Southeast, 450 meters above ground, 8 kilometers (Klitgord and Behrendt, 1977)
F East-West, 500 feet mean terrain clearance, 1 mile (USGS, 1978d)

SOURCES OF DATA

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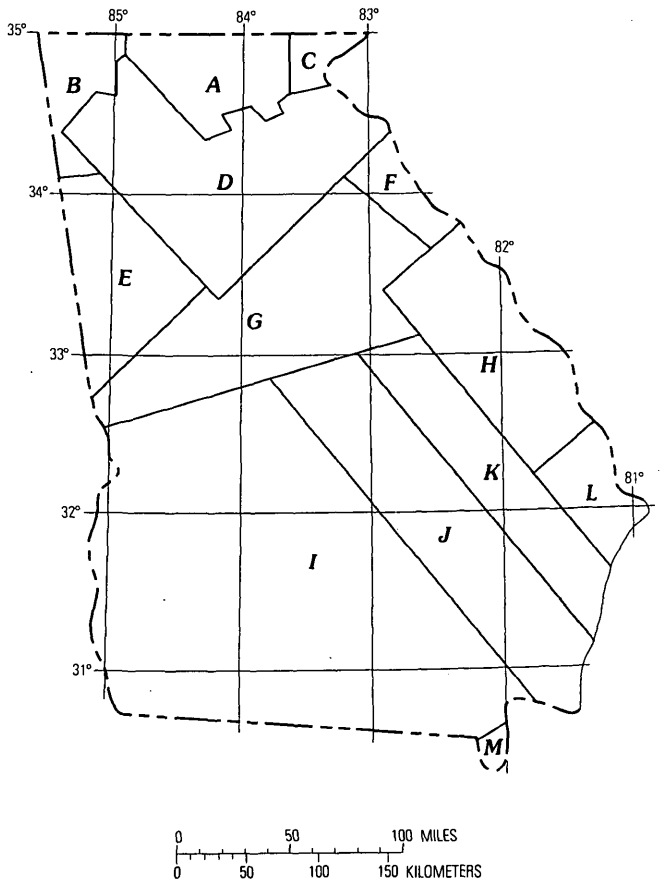

SPECIFICATIONS

- ***A*** East-West, 500 feet above ground, 2 mile (USGS, 1979c)
- ***B*** East-West, 500 feet above ground, 2 mile (USGS, 1979a)
- ***C*** Northwest-Southeast, 500 feet above ground, 1 mile (USGS, 1977a)
- ***D*** Northwest-Southeast, 500 feet above ground, 1 mile (Philbin and others, 1964)
- ***E*** North-South, 500 feet above ground, 1 mile (USGS, 1977b)
- ***F*** Northwest-Southeast, 500 feet above ground, 1 mile (USGS, 1977a)
- ***G*** Northwest-Southeast, 500 feet above ground, 1 mile (USGS, 1973)
- ***H*** Northwest-Southeast, 500 feet above ground, 1 mile (Petty and others, 1965)
- ***I*** Northwest-Southeast, 500 feet above ground, 1 mile (USGS, 1979b
- ***J*** Northwest-Southeast, 500 feet above ground, 1 mile (USGS, 1977c
- ***K*** Northwest-Southeast, 500 feet above ground, 1 mile (USGS, 1976a
- ***L*** East-West, 500 feet above ground, 1 mile (USGS, 1976b)
- ***M*** East-West, 500 feet above ground, 1 mile (USGS, 1978)

SOURCES OF DATA

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_____ 1976a, Aeromagnetic map of parts of Georgia, South Carolina, and North Carolina: U.S. Geological Survey Open-File Report 76–181, scale 1:250,000.

_____ 1976b, Aeromagnetic map of parts of the Brunswick and Savannah 1° x 2° quadrangles, Georgia and South Carolina: U.S. Geological Survey Open-File Report 76–155, scale 1:250,000.

_____ 1977a, Aeromagnetic map of part of northern Georgia: U.S. Geological Survey Open-File Report 77–190, scale 1:250,000.

_____ 1977b, Aeromagnetic map of parts of Rome, Atlanta, and Phenix City 1° x 2° quadrangles, Georgia: U.S. Geological Survey Open-File Report 77–345, scale 1:250,000.

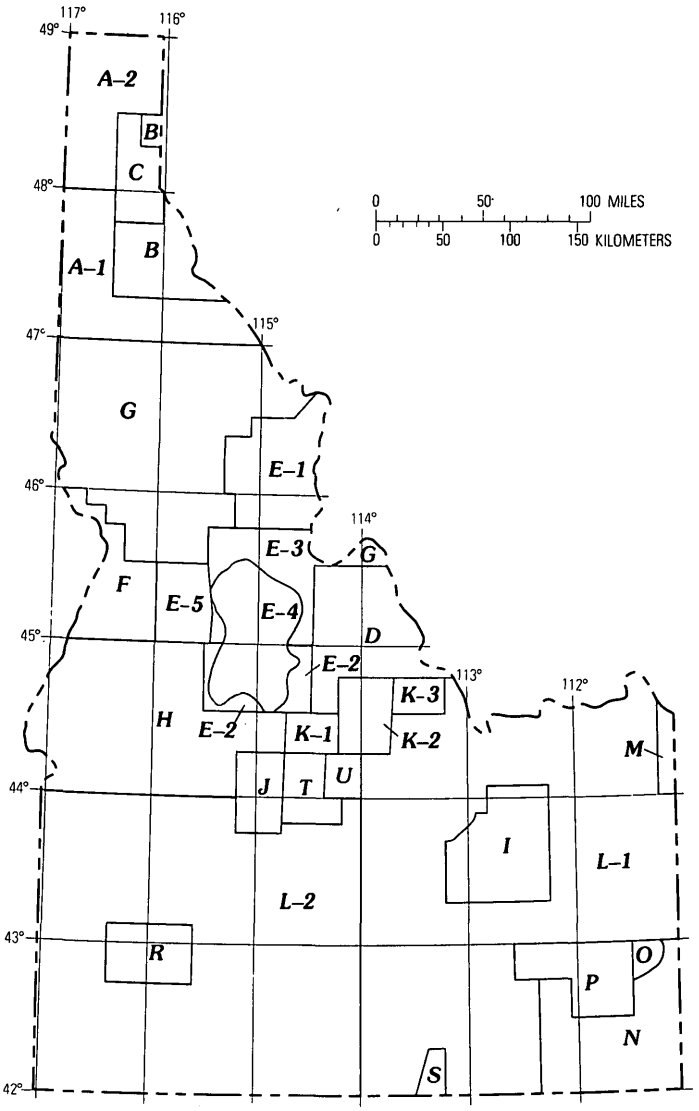
_____ 1977c, Aeromagnetic map of part of southeastern Georgia: U.S. Geological Survey Open-File Report 77–96, scale 1:250,000.

_____ 1978, Aeromagnetic map of northern Florida: U.S. Geological Survey Open-File Report 78–891, 2 sheets, scale 1:250,000.

_____ 1979a, Aeromagnetic map of northwest Georgia: U.S. Geological Survey Open-File Report 79–1369, scale 1:250,000.

_____ 1979b, Aeromagnetic map of southwest Georgia: U.S. Geological Survey Open-File Report 79–756, 3 sheets, scale 1:250,000.

_____ 1979c, Aeromagnetic map of part of the Chattahoochee National Forest, Georgia: U.S. Geological Survey Open-File Report 79–1371, scale 1:250,000.



SPECIFICATIONS

A East-West, 7000 feet barometric, 2 miles (*A–1*, USGS 1973a; *A–2*, USGS 1973c)

B East-West, 7000 feet barometric, 1 mile (Kleinkopf and others, 19782).

C Northern part North-South, 5000 feet barometric, ½–2 miles; Southern part East-West, 6000 feet barometric, ½–2 miles (Kleinkopf and others, 1972)

D East-West, 12,000 feet barometric, 2 miles (USGS, 1975)

E North-South, 11,000 feet barometric, 1 mile (*E–1*, USGS 1972c; *E–2*, USGS, 1972d; *E–3*, Weis and others, 1972; *E–4*, Cater and others, 1973; *E–5*, unpublished data)

F East-West, 9000 feet barometric, 1 and 2 miles (USGS, 1980)

G East-West, 15,000 feet barometric, 5 miles (Zietz and others, 1971)

H North-South, 11,000 feet barometric, 2 miles (USGS, 1972b)

I East-West, 9000 feet barometric, 1 mile (Zietz and others, 1978)

J North-South, 12,000 feet barometric, 1 mile (Kiilsgaard and others, 1970)

K East-West, 11,000 feet barometric, 1 mile (*K–1*, USGS, 1971a; *K–2*, USGS, 1971b; *K–3*, USGS 1971c)

L East-West, 12,500 feet barometric, 5 miles (*L–1*, USGS, 1972a; *L–2*, USGS, 1971d)

M East-West, 12,000 feet barometric, 1 mile (USGS, 1973b)

N North-South, 12,000 feet barometric, 5 miles (Zietz and others, 1978)

O Northeast-Southwest, 8000 feet barometric, 1 mile (Meuschke and Long, 1965)

P East-West, 9000 feet barometric, 1 mile (Mitchell and others, 1965)

R North-South, 8000 feet barometric, 2 miles (USGS, 1974b)

S North-South, 6000 feet barometric, ½ mile (USGS, 1974a)

T North-South, 12,000 feet barometric, 1 mile (Tschantz and others, 1974)

U North-South, 1000 feet above ground, ½ mile (USGS, 1981)

SOURCES OF DATA

Cater, F. W., and others, 1973, Mineral resources of the Idaho Primitive area and vicinity, Idaho, with a section on the Thunder Mountain district, by B. F. Leonard, and a section on Aeromagnetic interpretation, by W. E. Davis: U.S. Geological Survey Bulletin 1304, 431 p., 2 pls.

Kiilsgaard, T. H., Freeman, V. L., and Coffman, J. S., 1970, Mineral resources of the Sawtooth Primitive area, Idaho: U.S. Geological Survey Bulletin 1319–D, 174 p., 2 pls.

Kleinkopf, M. D., Harrison, J. E., and Zartman, R. E., 1972, Aeromagnetic and geologic map of part of northwestern Montana and northern Idaho: U.S. Geological Survey Geophysical Investigations Map GP–830, scale 1:250,000.

Meuschke, J. L., and Long, C. L., 1965, Aeromagnetic map of part of the Lanes Creek quadrangle, Caribou County, Idaho: U.S. Geological Survey Geophysical Investigations Map GP-490, scale 1:62,500.

Mitchell, C. M., Knowles, F. F., and Petrafeso, F. A., 1965, Aeromagnetic map of the Pocatello-Soda Springs area, Bannock and Caribou, Counties, Idaho: U.S. Geological Survey Geophysical Investigations Map GP–521, scale 1:250,000.

Tschantz, C. M., and others, 1974 Mineral resources of the eastern part of the Sawtooth National Recreation area, Custer and Blaine Counties, Idaho, with a section on aeromagnetic survey and tentative interpretation, by D. R. Mabey and C. M. Tschantz, and sections on electromagnetic surveys, by F. C. Frischknecht: U.S. Geological Survey Open-File Report, 2 vols., 648 p., 105 figs., 39 tables, 4 pls.

U.S. Geological Survey 1971a, Aeromagnetic map of the Custer, Elevenmile Creek, Sunbeam, Thompson Creek, and Clayton quadrangles, east-central Idaho: U.S. Geological Survey Open-File Report, scale 1:62,500.

_____ 1971b, Aeromagnetic map of the Challis, May, Lone Pine Peak, and Doublespring quadrangles, east-central Idaho: U.S. Geological Survey Open-File Report, scale 1:62,500.

_____ 1971c, Aeromagnetic map of the Patterson and Leadore quadrangles, east-central Idaho: U.S. Geological Survey Open-File Report, scale 1:62,500.

_____ 1971d, Aeromagnetic map of southwestern Idaho: U.S. Geological Survey Open-File Report, scale 1:500,000.

_____ 1972a, Aeromagnetic map of southeastern Idaho and part of southwestern Montana: U.S. Geological Survey Open-File Report, scale 1:500,000.

_____ 1972b, Aeromagnetic map of parts of the Baker and Challis 1° x 2° quadrangles, Idaho: U.S. Geological Survey Open-File Report, scale 1:250,000.

_____ 1972c, Aeromagnetic map of parts of the Hamilton and Elk City 1° x 2° quadrangles, Idaho-Montana: U.S. Geological Survey Geophysical Investigations Map GP-832, scale 1:250,000.

_____ 1972d, Aeromagnetic map of part of the Challis 1° x 2° quadrangle, Idaho: U.S. Geological Survey Geophysical Investigations Map GP–835, scale 1:250,000.

_____ 1973a, Aeromagnetic map of parts of the Spokane and Wallace 1° x 2° quadrangles, Idaho: U.S. Geological Survey Open-File Report, scale 1:250,000.

_____ 1973b, Aeromagnetic map of Yellowstone National Park and vicinity, Wyoming-Montana-Idaho U.S. Geological Survey Open-File Report, 4 sheets, scale 1:125,000.

_____ 1973c, Aeromagnetic map of parts of the Okanogan and Sandpoint 1° x 2° quadrangles, Washington-Idaho-Montana: U.S. Geological Survey Open-File Report, scale 1:250,000.

_____ 1974a, Residual magnetic intensity map of the southern Raft River area, Cassia County, Idaho: U.S. Geological Survey Open-File Report, scale 1:24,000.

_____ 1974b, Residual magnetic intensity map,Bruneau, Idaho: U.S. Geological Survey Open-File Report, scale 1:62,500.

_____ 1975, Aeromagnetic map of southwestern Montana and east-central Idaho: U.S. Geological Survey Open-File Report 75-655, scale 1:250,000.

_____ 1980, Aeromagnetic map of the Hell's Canyon area, Idaho and Oregon: U.S. Geological Survey Open-File Report 80–947, scale 1:125,000.

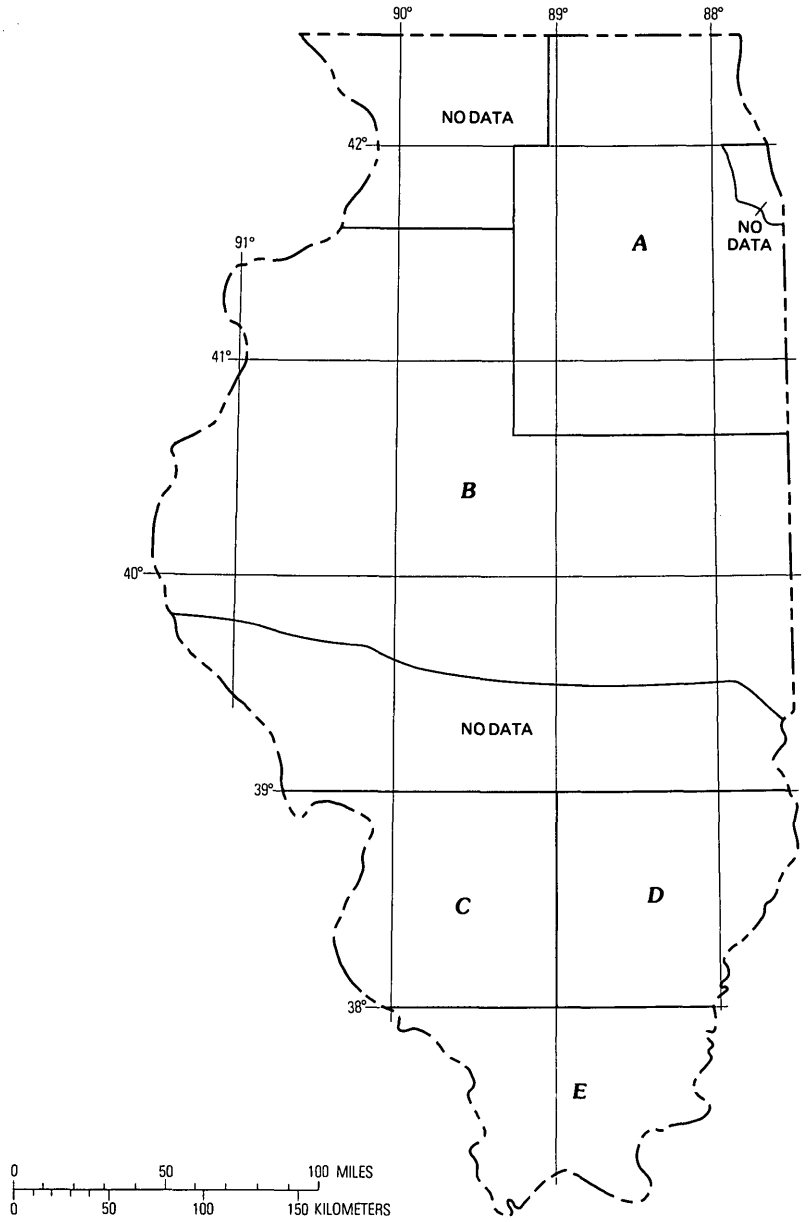
_____ 1981, Aeromagnetic map of the Jerry Peak area, Idaho: U.S. Geological Survey Open-File Report 81–933, scale 1:62,500.

Weis, P. L., Schmitt, L. J., Jr., and Tuchek, E. T., 1972 Mineral resources of the Salmon River Breaks Primitive area, Idaho, with a section on aeromagnetic survey, by W. E. Davis: U.S. Geological Survey Bulletin 1353-C, 91 p. 2 pls.

Zietz, Isidore, and others 1971, Interpretation of an aeromagnetic strip across the northwestern United States: Geological Society of America Bulletin, v. 82, no. 12, p. 3347-3371.

Zietz, Isidore, Gilbert, F. P., and Kirby, J. R., 1978, Aeromagnetic map of Idaho: color coded intensities: U.S. Geological Survey Geophysical Investigations Map GP–920, scale 1:1,000,000.

ILLINOIS



SPECIFICATIONS

A East-West, 500 feet above ground, 1 mile (Beck, 1965)

B East-West, 6000 feet above sea level, 5 mile (Zietz and others, 1966)

C North-South, 3000 feet above mean sea level, 1 mile (Heigold, 1976)

D North-South, 1000 feet above mean terrain, 1 mile (Johnson and others, 1980)

E East-West, 400 feet above ground, 6 mile (Texas Instruments, 1980)

SOURCES OF DATA

Beck, M. E., Jr., 1965, Aeromagnetic map of northeastern Illinois and its geologic interpretation: U.S. Geological Survey Geophysical Investigations Map GP-523, with 6 p. text, scale 1:250,000.

Heigold, P. C., 1976, An aeromagnetic survey of southwestern Illinois: Illinois State Geological Survey, Circular 495, 28 p., 1 pl., 11 figs., 2 tables.

Johnson, R. W., and others, 1980, Aeromagnetic map of the east-central midcontinent of the United States—Washington: Division of Reactor Safety Research, Office of Nuclear Regulatory Research, United States Nuclear Regulatory Commission: Springfield, Va., 12 p., 1 pl. scale 1:250,000.

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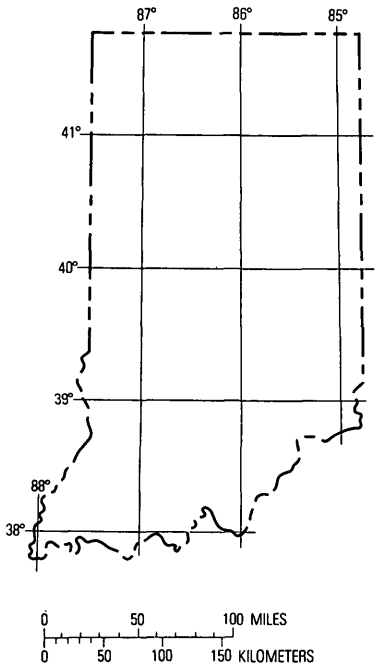
Zietz, Isidore, and others, 1966, Crustal study of a continental strip from the Atlantic ocean to the Rocky Mountains: Geological Society of America Bulletin, v. 77, no. 12, p. 1427–1448, 2 pls.

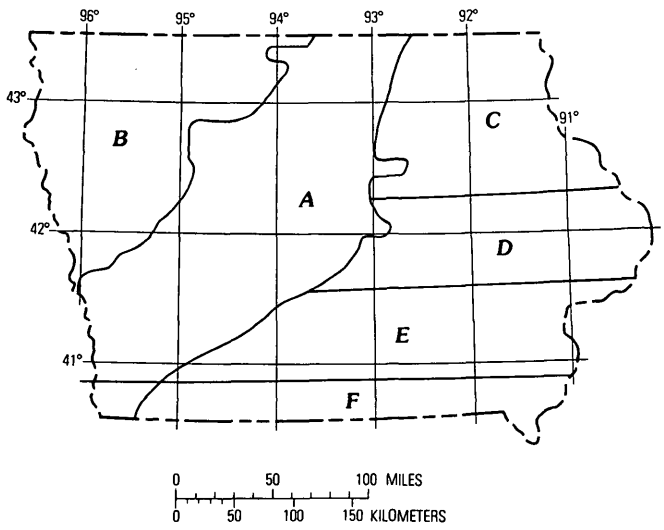


SPECIFICATIONS

North-South, 1000 feet above ground, 1 mile (Richardson, 1978)

SOURCES OF DATA

Richardson, N. R., Jr., 1978, Total magnetic intensity map of Indiana: Purdue University, Department of Geosciences, scale 1:500,000.



SPECIFICATIONS

The flight elevation of all surveys was 1000 feet above ground, except for area F which was 2000 feet above sea level. The flight direction and spacing for all the surveys was east-west and one mile, respectively. Data used to compile this map were published by the U.S. Geological Survey, ***A*** (Henderson and Vargo, 1965), and by the Iowa Geological Survey, ***B*** (1965), ***C*** (1968), ***D*** (1969), ***E*** (1970), and ***F*** (1973).

SOURCES OF DATA

Henderson, J. R., and Vargo, J. L., 1965, Aeromagnetic map of central Iowa: U.S. Geological Survey Geophysical Investigations Map GP-476, scale 1:316,800.

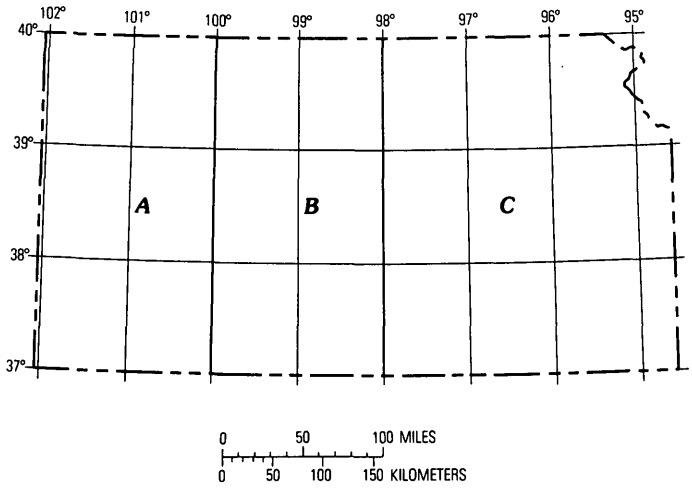
Iowa Geological Survey, 1965, Preliminary interpretation report, airborne magnetometer survey of northwestern Iowa: Iowa Geological Survey, scale 1:500,000.

_____ 1968, Preliminary interpretation report, airborne magnetometer survey of northeastern Iowa: Iowa Geological Survey, scale 1:500,000.

_____ 1969, Preliminary interpretation report, airborne magnetometer survey of east-central Iowa: Iowa Geological Survey, scale 1:500,000.

_____ 1970, Preliminary interpretation report, airborne magnetometer survey of southeastern Iowa: Iowa Geological Survey, scale 1:500,000.

_____ 1973, Preliminary interpretation report, airborne magnetometer survey of southern Iowa: Iowa Geological Survey, scale 1:500,000.



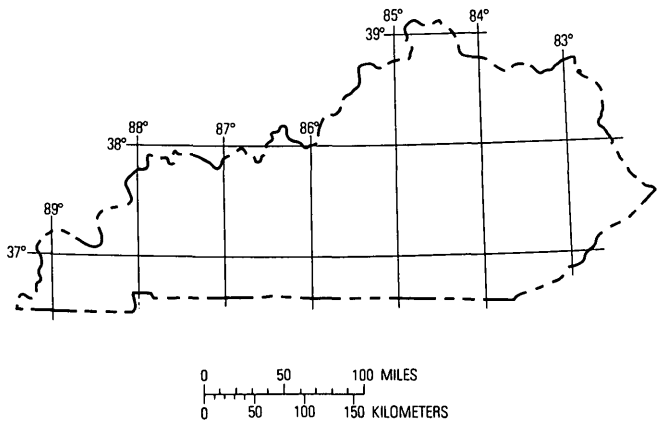
SPECIFICATIONS

All lines flown in an East-West direction at 2 mile spacing with elevations as shown below.

A 4500 feet above sea level (Yarger and others, 1980)
B 3000 feet above sea level (Yarger and others, 1980)
C 2500 feet above sea level (Yarger and others, 1980)

SOURCES OF DATA

Yarger, H., Robertson, R., Martin , J,. Ng, K., Sooby, R., and Wentland, R., 1980, Aeromagnetic map of Kansas: Kansas Geological Survey Open-File Map, scale 1:500,000.

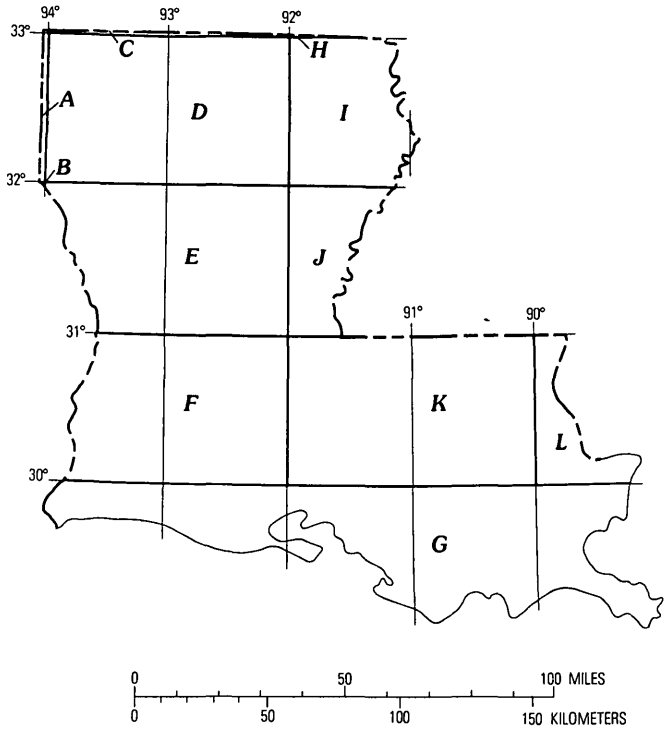


SPECIFICATIONS

East-West, 1000 feet constant barometric altitude, 1 mile (Johnson and others, 1978)

SOURCES OF DATA

Johnson, R. W., Jr., Haygood, C., and Kunselman, P. M., 1978, Residual total-intensity aeromagnetic map of Kentucky: Kentucky Geological Survey 3 sheets, scale 1:250,000.



SPECIFICATIONS

A East-West, 400 feet above ground, 3 mile (EG&G GeoMetrics, 1980a)

B East-West, 400 feet above ground, 3 mile (Texas Instruments, 1980)

C East-West, 400 feet above ground, 6 mile (EG&G GeoMetrics, 1980f)

D East-West, 400 feet above ground, 6 mile (EG&G GeoMetrics, 1980b)

E East-West, 400 feet above ground, 6 mile (EG&G GeoMetrics, 1980c)

F East-West, 400 feet above ground, 6 mile (EG&G GeoMetrics, 1980j)

G Specifications unknown (unpublished data)

H East-West, 400 feet above ground, 6 mile (EG&G GeoMetrics, 1980g)

I East-West, 400 feet above ground, 6 mile (EG&G GeoMetrics, 1980d)

J East-West, 400 feet above ground, 6 mile (EG&G GeoMetrics, 1980e)

K East-West, 400 feet above ground, 6 mile (EG&G GeoMetrics, 1980h)

L East-West, 400 feet above ground, 6 mile (EG&G GeoMetrics, 1980i)

SOURCES OF DATA

EG&G GeoMetrics, Inc., 1980a, National Uranium Resource Evaluation aerial gamma-ray and magnetic reconnaissance survey, Nebraska-Texas project, Tyler, Texarkana, and Waco quadrangles of Texas, Oklahoma, Arkansas, and Louisiana—Final Report: U.S. Department of Energy Grand Junction Office [Report] GJBX 69-80, v. 2, n.p., scale 1:500,000.

_____ 1980b, National Uranium Resource Evaluation aerial gamma-ray and magnetic reconnaissance survey, Shreveport quadrangle, Louisiana—Final Report: U.S. Department of Energy Grand Junction Office [Report] GJBX 151-80, v. 2, n.p., scale 1:500,000.

_____ 1980c, National Uranium Resource Evaluation aerial gamma-ray and magnetic reconnaissance survey, Alexandria quadrangle, Louisiana and Texas—Final Report: U.S. Department of Energy Grand Junction Office [Report] GJBX 152-80, v. 2, n.p., scale 1:500,000.

_____ 1980d, National Uranium Resource Evaluation aerial gamma-ray and magnetic reconnaissance survey, Jackson quadrangle, Louisiana and Mississippi—Final Report: U.S. Department of Energy Grand Junction Office [Report] GJBX 153-80, v. 2, n.p., scale 1:500,000.

_____ 1980e, National Uranium Resource Evaluation aerial gamma-ray and magnetic reconnaissance survey, Natchez quadrangle, Mississippi and Louisiana—Final Report: U.S. Department of Energy Grand Junction Office [Report] GJBX 180-80, v. 2, n.p., scale 1:500,000.

_____ 1980f, National Uranium Resource Evaluation aerial gamma-ray and magnetic reconnaissance survey, El Dorado quadrangle, Louisiana and Arkansas—Final Report: U.S. Department of Energy Grand Junction Office [Report] GJBX 182-80, v. 2, n.p., scale 1:500,000.

_____ 1980g, National Uranium Resource Evaluation aerial gamma-ray and magnetic reconnaissance survey, Greenwood quadrangle, Mississippi, Arkansas, and Louisiana—Final Report: U.S. Department of Energy Grand Junction Office [Report] GJBX 183-80, v. 2, n.p., scale 1:500,000.

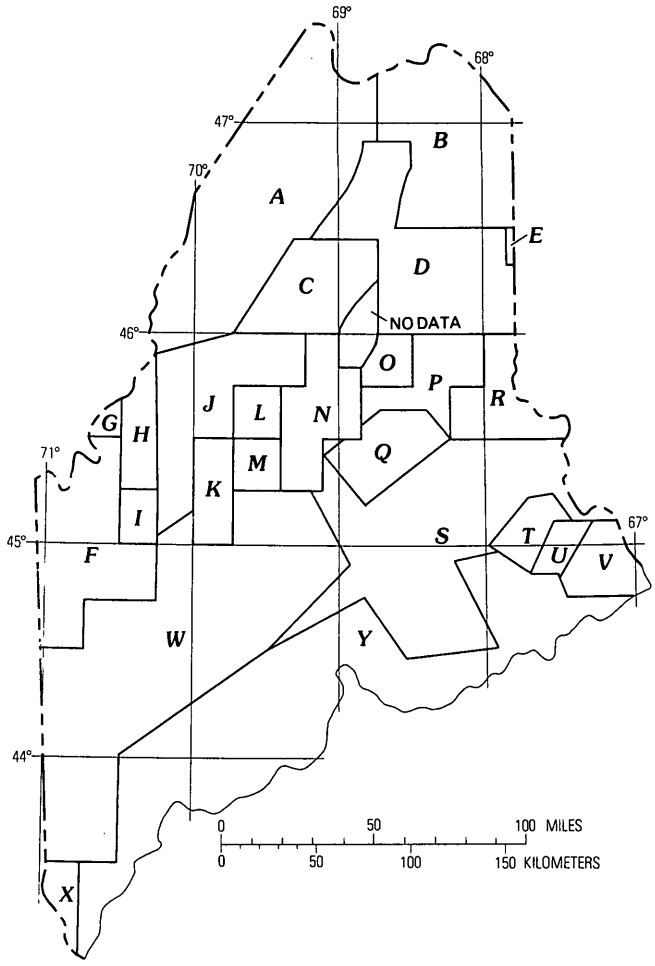
_____ 1980h, National Uranium Resource Evaluation aerial gamma-ray and magnetic reconnaissance survey, Baton Rouge quadrangle, Louisiana and Mississippi—Final Report: U.S. Department of Energy Grand Junction Office [Report] GJBX 221-80, v. 2, n.p., scale 1:500,000.

_____ 1980i, National Uranium Resource Evaluation aerial gamma-ray and magnetic reconnaissance survey, Mobile quadrangle, Louisiana, Mississippi, and Alabama—Final Report: U.S. Department of Energy Grand Junction Office [Report] GJBX 222-80, v. 2, n.p., scale 1:500,000.

_____ 1980j, National Uranium Resource Evaluation aerial gamma-ray and magnetic reconnaissance survey of Lake Charles and Port Arthur quadrangles, Texas and Louisiana—Final Report: U.S. Department of Energy Grand Junction Office [Report] GJBX 224-80, v. 2, n.p., scale 1:500,000.

Texas Instruments, Inc., 1980, National Uranium Resource Evaluation aerial gamma-ray and magnetic reconnaissance survey of portions of Texas [Palestine quadrangle]—Final Report: U.S. Department of Energy Grand Junction Office [Report] GJBX 45-80, v. 2, n.p., scale 1:500,000.

MAINE



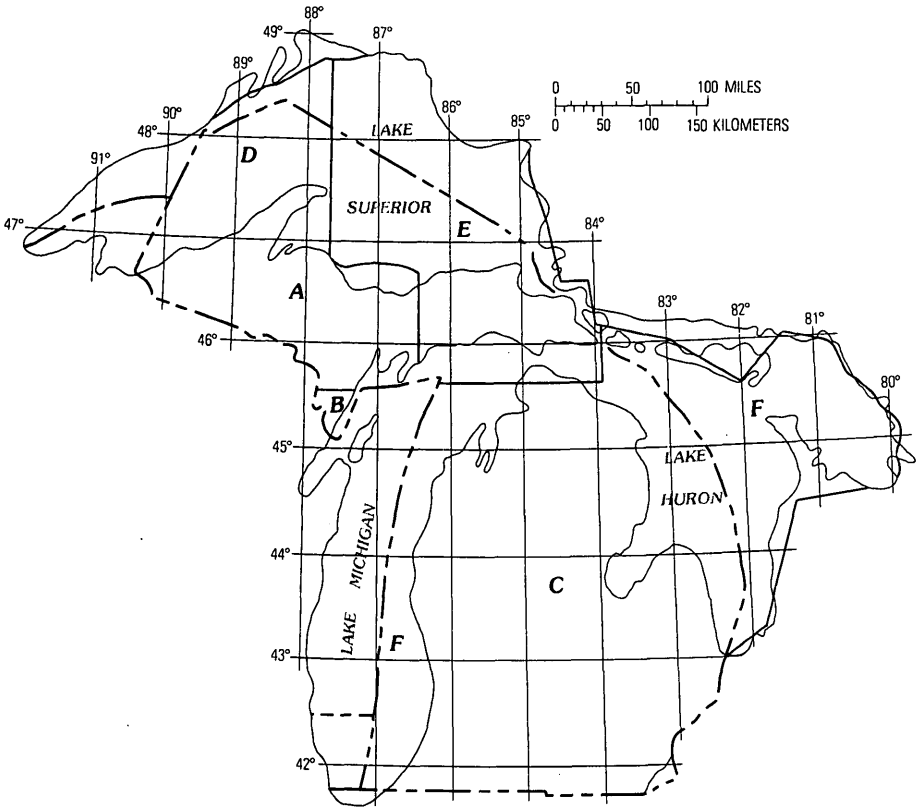
SPECIFICATIONS

A Northwest-Southeast, 2500 feet barometric, 10 mile (Zietz and others, 1972)
B North-South, 2500 feet barometric, 2 to 6 mile (Zietz and others, 1972)
C East-West, 500 feet above ground, ½ mile (Zietz and others, 1972)
D East-West, 500 feet above ground, ½ mile (Zietz and others, 1972)
E North-South, 500 feet above ground, ¼ mile (Zietz and others, 1972)
F North-South, 3500 feet barometric, ½ mile (Zietz and others, 1972)
G Northwest-Southeast, 500 feet above ground, ¼ mile (Zietz and others, 1972)
H North-South, 500 feet above ground, ¼ mile (Zietz and others, 1972)
I East-West, 500 feet above ground, ¼ mile (Zietz and others, 1972)
J East-West, 1000 feet above ground, 2 mile (Zietz and others, 1972)
K North-South, 750 feet above ground, ¼ mile (Zietz and others, 1972)
L North-South, 500 feet above ground, ¼ mile (Zietz and others, 1972)
M East-West, 500 feet above ground, ½ mile (Zietz and others, 1972)
N North-South, 500 feet above ground, ½ mile (Zietz and others, 1972)
O North-South, 500 feet above ground, ¼ mile (Zietz and others, 1972)
P Northwest-Southeast, 2500 feet barometric, 5 mile (Zietz and others, 1972)
Q Northwest-Southeast, 500 feet above ground, ¼ to ½ mile (Zietz and others, 1972)
R North-South, 500 feet above ground, ½ mile (Zietz and others, 1972)
S Northwest-Southeast, 500 feet above ground, ½ mile (Zietz and others, 1972)
T Northwest-Southeast, 2500 feet barometric, 5 mile (Zietz and others, 1972)
U East-West, 500 feet above ground, ½ mile (Zietz and others, 1972)
V East-West, 400 feet above ground, ½ mile (Zietz and others, 1972)
W Northwest-Southeast, 2500 feet barometric, 6 mile (Zietz and others, 1972)
X East-West, 750 feet above ground, ½ mile (Zietz and others, 1972)
Y Northwest-Southeast, 150 meters above sea level, 8 kilometers (Taylor and others, 1968)

SOURCES OF DATA

Taylor, P. T., Zietz, Isidore, and Dennis, L. S., 1968, Geologic implications of aeromagnetic data from the eastern continental margin of the United States: Geophysics, v. 33, no. 5, p. 755–780.

Zietz, Isidore, Gilbert, F. P., and Kirby, J. R., Jr., 1972, Northeastern United States aeromagnetic maps: U.S. Geological Survey Open-File Report, 13 sheets, scale 1:250,000.



SPECIFICATIONS

A North-South and East-West, 500 feet above ground, 0.25–3 mile (Zietz and Kirby, 1971)

B North-South, 500 feet above ground, 0.5 mile (USGS, 1970)

C North-South, 3000 feet barometric, 3 mile (Hinze and others, 1971)

D North-South, 3000 feet barometric, 6 mile (Wold and Ostenso, 1966)

E Northeast-Southwest, 3000 feet barometric, 6 mile (Hinze and others, 1966)

F Northwest-Southeast (southern half) Northeast-Southwest (northern half), 3000 feet barometric, 6 mile (O'Hara and Hinze, 1966)

SOURCES OF DATA

Hinze, W. J., O'Hara, N. W., Trow, J. W., and Secor, G. B., 1966, Aeromagnetic studies of eastern Lake Superior, *in* Steinhart, J. S., and Smith, T. J., editors, The earth beneath the continents: American Geophysical Union Geophysical Monograph 10, p. 95–110, 8 figs., 1 pl.

Hinze, W. J., Kellogg, R. L., and Merritt, D. W., 1971, Gravity and aeromagnetic anomaly maps of the southern peninsula of Michigan: Michigan Department of Natural Resources Geological Survey Division Report of Investigation 14, 15 p., 2 pls., 5 figs.

O'Hara, N. W., and Hinze, W. J., Michigan State University, written communication, 1966.

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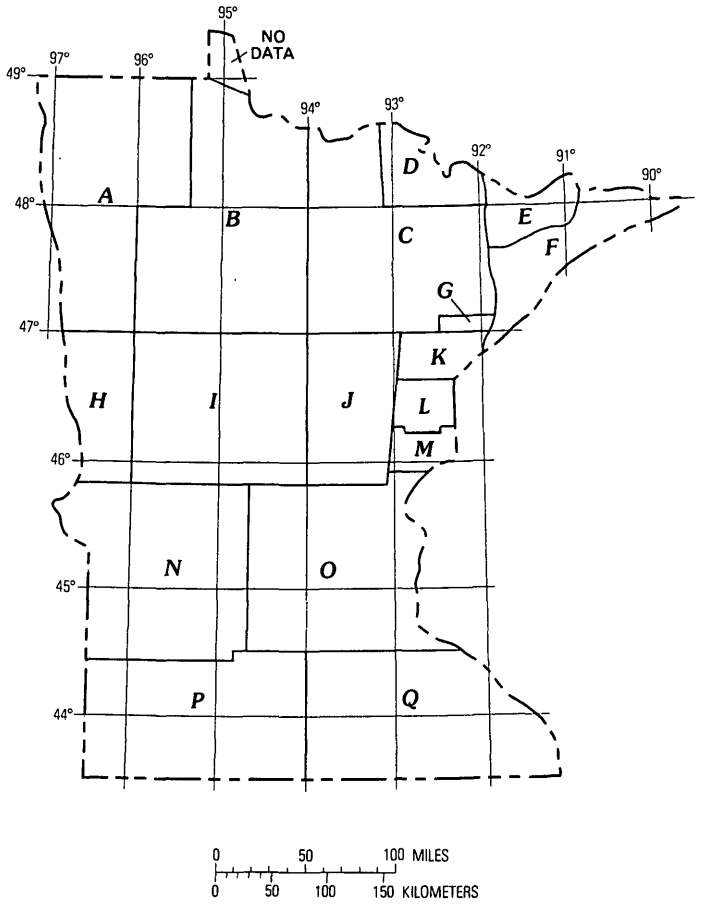
Wold, R. J., and Ostenso, N. A., 1966, Aeromagnetic, gravity, and subbottom profiling studies in western Lake Superior, *in* Steinhart, J. S., and Smith, T. J., editors, The earth beneath the continents: American Geophysical Union Geophysical Monograph 10, p. 66–94, 33 figs.

Zietz, Isidore, and Kirby, J. R., 1971, Aeromagnetic map of the western part of the northern peninsula, Michigan, and part of northern Wisconsin: U.S. Geological Survey Geophysical Investigations Map GP–750, scale 1:250,000.

MINNESOTA



SPECIFICATIONS

- *A* North-South, 500 feet above ground, 1 mile (Bath and others, 1964b)
- *B* North-South, 1000 feet above ground, 1 mile (Bath and others, 1964b)
- *C* North-South, 1000 feet above ground, 1 mile (Bath and others, 1965a)
- *D* North-South, 1000 feet above ground, 1 mile (USGS, 1968b)
- *E* North-South, 500 feet above ground, 0.5 to 1 mile (Bath and others, 1965a)
- *F* North-South, 1000 feet above ground, 1 mile (USGS, 1969)
- *G* East-West, 1000 feet above ground, 1 mile (Bath and others, 1965a)
- *H* North-South, 500 feet above ground, 1 mile (Bath and others, 1965b)
- *I* North-South, 1000 feet above ground, 1 mile (Bath and others, 1965b)
- *J* North-South, 1000 feet above ground, 1 mile (Bath and others, 1964a)
- *K* East-West, 1000 feet above ground, 1 mile (Bath and others, 1964a)
- *L* North-South, 1000 feet above ground, 2 to 4 mile (Bath and others, 1964a)
- *M* East-West, 1000 feet barometric, 1 mile (USGS, 1968a)
- *N* East-West, 1000 feet above ground, 1 mile (USGS, 1970)
- *O* East-West, 500 feet above ground, 1 mile (Sims and Zietz, 1967)
- *P* East-West, 1000 feet above ground, 1 mile (Philbin and Gilbert, 1966b)
- *Q* East-West, 1000 feet above ground, 1 mile (Philbin and Gilbert, 1966a)

SOURCES OF DATA

Bath, G. D., Schwartz, G. M., and Gilbert, F. P., 1964a, Aeromagnetic and geologic map of east-central Minnesota: U.S. Geological Survey Geophysical Investigations Map GP-474, scale 1:250,000.

_____ 1964b, Aeromagnetic and geologic map of northwestern Minnesota: U.S. Geological Survey Geophysical Investigations Map GP-471, scale 1:250,000.

_____ 1965a, Aeromagnetic and geologic map of northeastern Minnesota: U.S. Geological Survey Geophysical Investigations Map GP-472, scale 1:250,000.

_____ 1965b, Aeromagnetic and geologic map of west-central Minnesota: U.S. Geological Survey Geophysical Investigations Map GP-473, scale 1:250,000.

Philbin, P. W., and Gilbert, F. P., 1966a, Aeromagnetic map of southeastern Minnesota: U.S. Geological Survey Geophysical Investigations Map GP-559, scale 1:250,000.

_____ 1966b, Aeromagnetic map of southwestern Minnesota: U.S. Geological Survey Geophysical Investigations Map GP-560, scale 1:250,000.

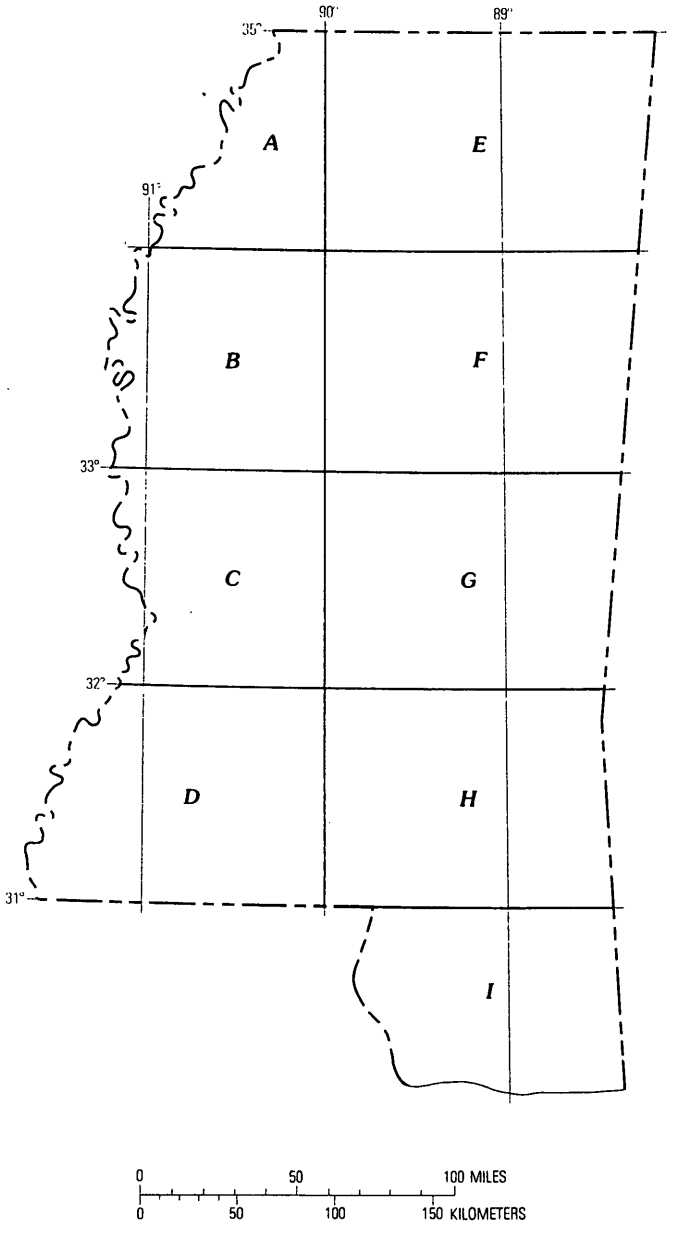
Sims, P. K., and Zietz, Isidore, 1967, Aeromagnetic and inferred Precambrian paleogeologic map of east-central Minnesota and part of Wisconsin: U.S. Geological Survey Geophysical Investigations Map GP-563, 6 p. text, scale 1:250,000.

U.S. Geological Survey, 1968a, Aeromagnetic map of central Pine County, Minnesota and adjacent parts of Wisconsin: U.S. Geological Survey Geophysical Investigations Map GP-636, scale 1:62,500.

_____ 1968b, Aeromagnetic map of the Kabetogama Lake-Grassy Lake area, St. Louis County, Minnesota: U.S. Geological Survey Geophysical Investigations Map GP-616, scale 1:250,000.

_____ 1969, Aeromagnetic map of the McNair-Grand Portage area, northeastern Minnesota: U.S. Geological Survey Geophysical Investigations Map GP-639, scale 1:250,000.

_____ 1970, Aeromagnetic map of a part of western Minnesota: U.S. Geological Survey Geophysical Investigations Map GP-692, scale 1:250,000.



SPECIFICATIONS

All lines flown East-West, 400 feet above ground, with six-mile spacing.

A (EG&G GeoMetrics, 1980g)
B (EG&G GeoMetrics, 1980f)
C (EG&G GeoMetrics, 1980a)
D (EG&G GeoMetrics, 1980d)
E (EG&G GeoMetrics, 1980h)
F (EG&G GeoMetrics, 1980e)
G (EG&G GeoMetrics, 1980b)
H (EG&G GeoMetrics, 1980c)
I (EG&G GeoMetrics, 1980i)

SOURCES OF DATA

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_____ 1980c, National Uranium Resource Evaluation aerial gamma-ray and magnetic reconnaissance survey, Hattiesburg quadrangle, Mississippi, Alabama, and Louisiana—Final Report: U.S. Department of Energy Grand Junction Office [Report] GJBX 155-80, v. 2, n.p., scale 1:500,000.

_____ 1980d, National Uranium Resource Evaluation aerial gamma-ray and magnetic reconnaissance survey, Natchez quadrangle, Mississippi, and Louisiana—Final Report: U.S. Department of Energy Grand Junction Office [Report] GJBX 180-80, v. 2, n.p., scale 1:500,000.

_____ 1980e, National Uranium Resource Evaluation aerial gamma-ray and magnetic reconnaissance survey, West Point quadrangle, Mississippi, and Alabama—Final Report: U.S. Department of Energy Grand Junction Office [Report] GJBX 181-80, v. 2, n.p., scale 1:500,000.

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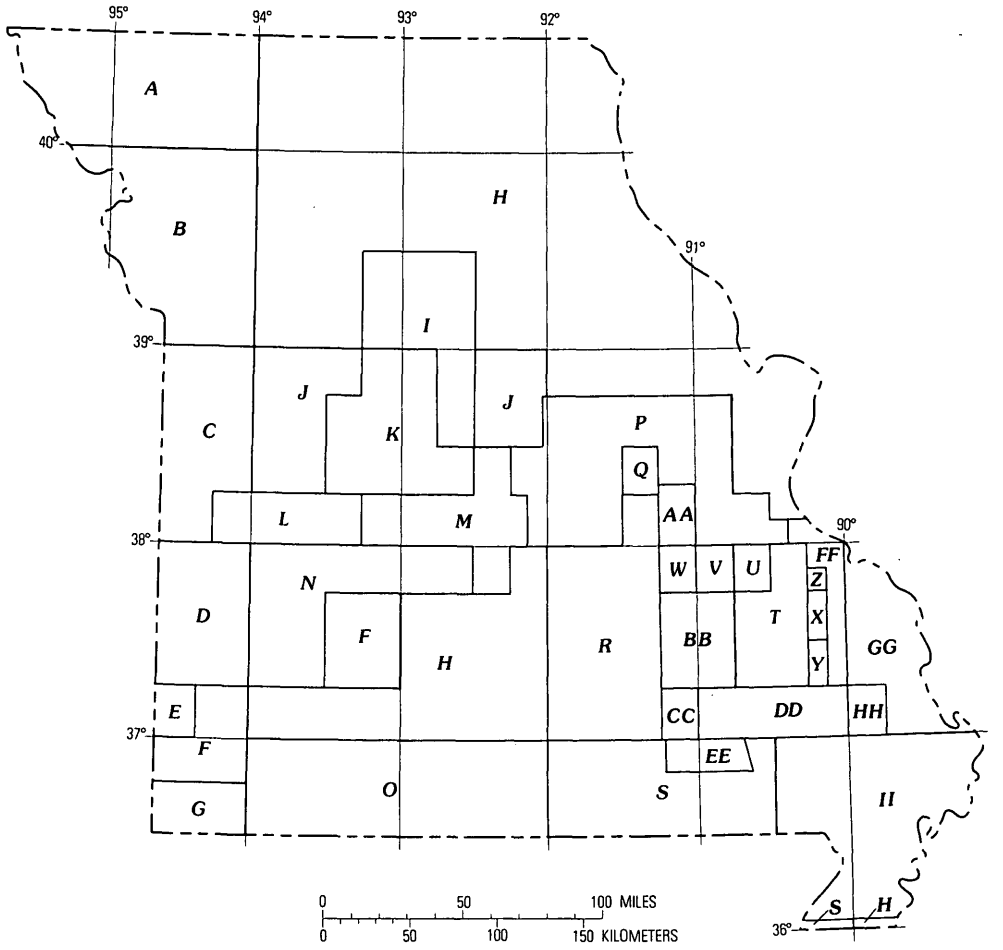
_____ 1980g, National Uranium Resource Evaluation aerial gamma-ray and magnetic reconnaissance survey, Helena quadrangle, Arkansas, Mississippi, and Tennessee—Final Report: U.S. Department of Energy Grand Junction Office [Report] GJBX 201-80, v. 2, n.p., scale 1:500,000.

_____ 1980h, National Uranium Resource Evaluation aerial gamma-ray and magnetic reconnaissance survey, Tupelo quadrangle, Mississippi, Alabama, and Tennessee—Final Report: U.S. Department of Energy Grand Junction Office [Report] GJBX 203-80, v. 2, n.p., scale 1:500,000.

_____ 1980i, National Uranium Resource Evaluation aerial gamma-ray and magnetic reconnaissance survey, Mobile quadrangle, Louisiana, Mississippi, and Alabama—Final Report: U.S. Department of Energy Grand Junction Office [Report] GJBX 222-80, v. 2, n.p., scale 1:500,000.

MISSOURI



SPECIFICATIONS

A East-West, 400 feet above ground, 6 mile (EG&G GeoMetrics, 1980e)

B East-West, 400 feet above ground, 6 mile (EG&G GeoMetrics, 1980c)

C East-West, 400 feet above ground, 6 mile (EG&G GeoMetrics, 1980b)

D East-West, 400 feet above ground, 3 mile (Texas Instruments, 1978)

E North-South, 1000 feet above ground, ½ mile (Keller and Henderson, 1963)

F North-South, 2000 feet above sea level, ½ mile (Missouri Geological Survey, 1968a)

G East-West, 400 feet above ground, 3 mile (Texas Instruments, 1978)

H Vertical intensity data, 1 and 2 mile intervals (Missouri Geological Survey, 1943)

I North-South, 1500 feet above sea level, ½ mile (Missouri Geological Survey, 1970)

J East-West, 400 feet above ground, 6 mile (EG&G GeoMetrics, 1980d)

K North-South, 1500 feet above sea level, ½ mile (Missouri Geological Survey, 1969)

L North-South, 1500 feet above sea level, ½ mile (Missouri Geological Survey, 1963a)

M North-South, 1500 feet barometric, ½ mile (Missouri Geological Survey, 1965)

N North-South, 1700 feet above sea level, ½ mile (Missouri Geological Survey, 1962)

O East-West, 400 feet above ground, 6 mile (EG&G GeoMetrics, 1980a)

P North-South, 1500 feet above sea level, ¼ mile (Missouri Geological Survey, 1961a)

Q North-South, 500 feet above ground, 1 mile (Missouri Geological Survey, 1968c)

R North-South, 1800 feet barometric, ½ mile (USGS, 1979)

S East-West, 400 feet above ground, 3 mile (Texas Instruments, 1980b)

T North-South, 1800 feet barometric, ¼ mile (Dempsey and Duffner, 1949)

U North-South, 1800 feet barometric, ¼ mile (Dempsey and others, 1950a)

V North-South, 1800 feet barometric, ¼ mile (Dempsey and others, 1950b)

W North-South, 1800 feet barometric, ¼ mile (Dempsey and Meuschke, 1951a)

X North-South, 1800 feet barometric, ¼ mile (Dempsey and Meuschke, 1951b)

Y North-South, 1800 feet barometric, ¼ mile (Dempsey and Meuschke, 1951c)

Z North-South, 1800 feet barometric, ¼ mile (Dempsey and Meuschke, 1951d)

AA North-South, 1800 feet barometric, ¼ mile (Dempsey and Meuschke, 1951e)

BB North-South, 1500 feet above sea level, ¼ mile Missouri Geological Survey, 1961b)

CC North-South, 1500 feet above sea level, ¼ mile (Missouri Geological Survey, 1968d)

DD North-South, 500 feet above ground, ¼ mile (Missouri Geological Survey, 1968b)

EE North-South, 400 feet above ground, 1 mile (Missouri Geological Survey, 1963b)

FF East-West, 1000 feet above ground, 1 mile (Johnson and others, 1980)

GG East-West, 400 feet above ground, 6 mile (Texas Instruments, 1980a)

HH North-South, 1000 feet above sea level, ½ mile (Missouri Geological Survey, 1963c)

II East-West, 1500 feet constant barometric altitude, 1 mile (USGS, 1974)

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Dempsey, W. J., Duffner, R. T., Keller, Fred, Jr., and Henderson, J. R., Jr., 1950a, Total intensity aeromagnetic map of Bonne Terre quadrangle, Missouri: U.S. Geological Survey Geophysical Investigations Map GP–14, scale 1:31,680.

_____ 1950b, Total intensity aeromagnetic map of Potosi quadrangle, Missouri: U.S. Geological Survey Geophysical Investigations Map GP–13, scale 1:31,680.

Dempsey, W. J., and Meuschke, J. L., 1951a, Total intensity aeromagnetic map of Berryman quadrangle, Missouri: U.S. Geological Survey Geophysical Investigations Map GP–77, scale 1:31,680.

_____ 1951b, Total intensity aeromagnetic map of part of Higdon quadrangle, Missouri: U.S. Geological Survey Geophysical Investigations Map GP-80, scale 1:31,680.

_____ 1951c, Total intensity aeromagnetic map of part of Marquand quadrangle, Missouri: U.S. Geological Survey Geophysical Investigations Map GP–79, scale 1:31,680.

_____ 1951d, Total intensity aeromagnetic map of part of Weingarten quadrangle, Missouri: U.S. Geological Survey Geophysical Investigations Map GP-81, scale 1:31,680.

_____ 1951e, Total intensity aeromagnetic map of Sullivan quadrangle and part of Union quadrangle, Missouri: U.S. Geological Survey Geophysical Investigations Map GP–78, scale 1:31,680.

_____ 1980a, National Uranium Resource Evaluation aerial gamma-ray and magnetic reconnaissance survey, Harrison quadrangle, Missouri and Arkansas—Final Report: U.S. Department of Energy Grand Junction Office [Report] GJBX 150-80, v. 2, n.p., scale 1:500,000.

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_____ 1980e, National Uranium Resource Evaluation aerial gamma-ray and magnetic reconnaissance survey, Nebraska City quadrangle, Missouri, Iowa, Nebraska, and Kansas—Final Report: U.S. Department of Energy Grand Junction Office [Report] GJBX 261–80, v. 2, n.p., scale 1:500,000.

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_____ 1962, Total intensity aeromagnetic maps, Ash Grove, Fairplay, Greenfield, Hermitage, Macks Creek, Stockton, Stockton 1, Stockton 2, Stoutland, and Urbana quadrangles: (Rolla, Missouri), 10 sheets, scale 1:62,500.

_____ 1963a, Total intensity aeromagnetic maps, Butler 4, Clinton 3, Clinton 4, and Fristoe quadrangles: (Rolla, Missouri), 4 sheets, scale 1:62,500.

_____ 1963b, Total intensity aeromagnetic map of Carter County, (Rolla, Missouri), scale 1:62,500.

_____ 1963c, Total intensity aeromagnetic map, Advance quadrangle: (Rolla, Missouri), scale 1:62,500.

_____ 1965, Total intensity aeromagnetic maps, Eugene, Iberia, Linn Creek, Little Niangua, Richland, Tavern, and Warsaw quadrangles: (Rolla, Missouri), 7 sheets, scale 1:62,500.

_____ 1968a, Total intensity aeromagnetic maps, Joplin East, Neosho, Ritchey, Sarcoxie, Seneca, Bolivar, Buffalo, Morrisville, and Strafford quadrangles: (Rolla, Missouri), 9 sheets, scale 1:62,500.

_____ 1968b, Total intensity aeromagnetic maps, Ellington, Greenville, Piedmont, and Zalma quadrangles: (Rolla, Missouri), 4 sheets, scale 1:62,500.

_____ 1968c, Total intensity aeromagnetic map, Gerald quadrangle: (Rolla, Missouri), scale 1:62,500.

_____ 1968d, Total intensity aeromagnetic map, Cardavera quadrangle: (Rolla, Missouri), scale 1:62,500.

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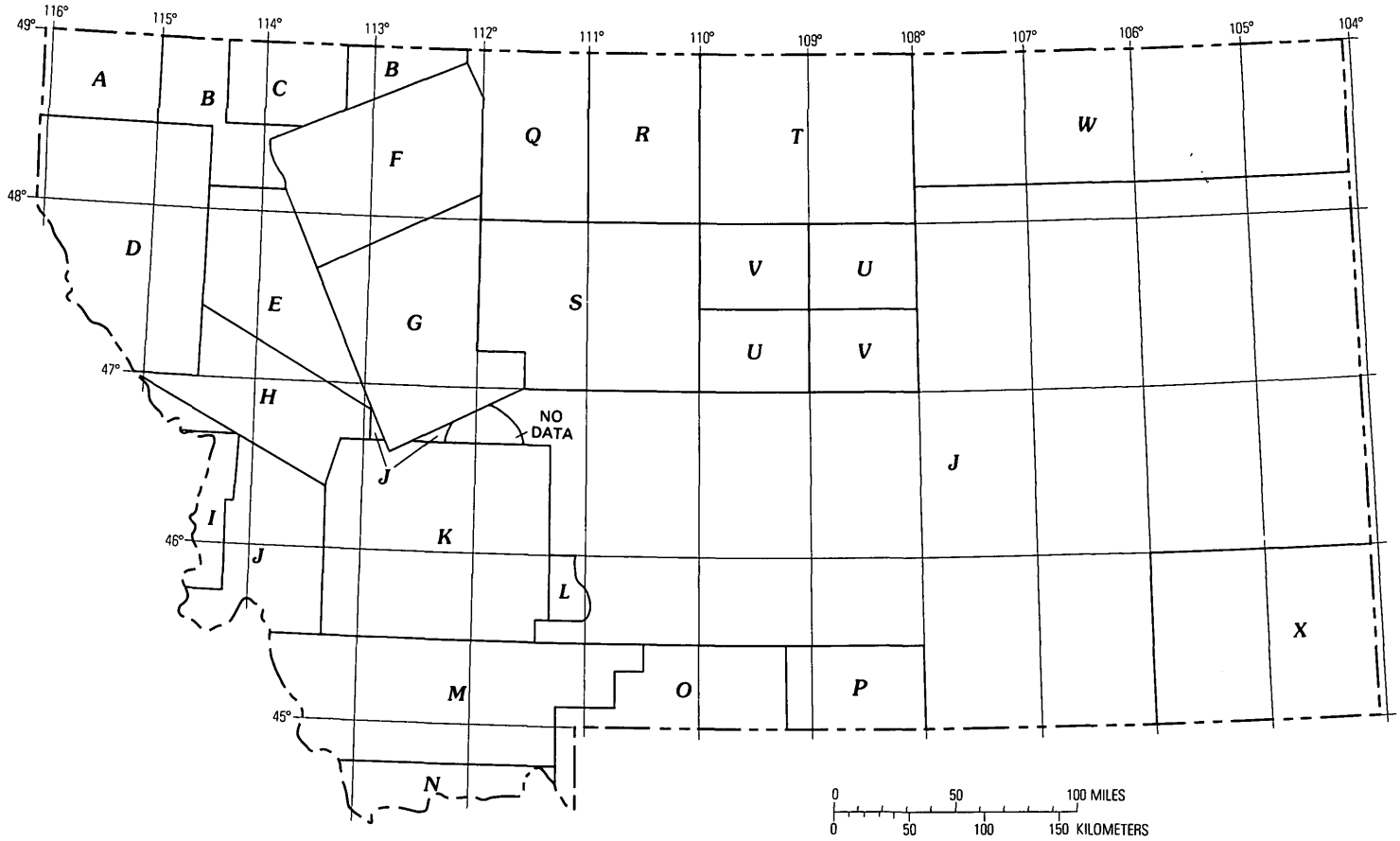
MONTANA



SPECIFICATIONS

A East-West, 7000 feet barometric, 2 mile (USGS, 1973b)
B East-West, 7000 feet barometric, 2 mile (USGS, 1973a)
C East-West, 11,000 feet barometric, 2 mile (USGS, 1973a)
D East-West, 7000 feet barometric, 1 mile (Kleinkopf and others, 1972)
E East-West, 9000 feet barometric, 1 mile (Kleinkopf and Mudge, 1972)
F East-West, 9000 feet barometric, 2 mile (USGS, 1969)
G Northeast-Southwest, 9000 feet barometric, 2 mile Kleinkopf and Mudge, 1972)
H North-South, 7500 feet barometric, 1 mile (Douglas, 1971)
I North-South, 11,000 feet barometric, 1 mile (USGS, 1972a)
J East-West, 15,000 feet barometric, 5 mile (Zietz and others, 1971)
K East-West, 10,500 feet barometric, 2 mile (Johnson and others, 1965)
L East-West, 500 feet above ground, 0.5 mile (Davis and others, 1965)
M East-West, 12,000 feet barometric, 2 mile (USGS, 1975b)
N East-West, 12,500 feet barometric, 5 mile (USGS, 1972b)
O East-West, 12,000 feet barometric, 1 mile (USGS, 1973c)
P East-West, 12,000 feet above sea level, 2 mile (USGS, 1975a)
Q East-West, 400 feet above ground, 6 mile (Texas Instruments, Inc., 1979)
R East-West, 400 feet above ground, 3 mile (Texas Instruments, Inc., 1979)
S East-West, 400 feet above ground, 3 mile (Texas Instruments, Inc., 1979)
T East-West, 400 feet above ground, 3 mile (Texas Instruments, Inc., 1979)
U East-West, 400 feet above ground, 3 mile (Texas Instruments, Inc., 1979)
V East-West, 400 feet above ground, 6 mile (Texas Instruments, Inc., 1979)
W East-West, 4000 feet barometric, 3 mile (USGS, 1981)
X East-West, 400 feet above ground, 3 mile (EG&G GeoMetrics, 1979)

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_____ 1973a, Aeromagnetic map of parts of the Kalispell and Cutbank 1° by 2° quadrangles, Montana: U.S. Geological Survey Open-File Report, scale 1:250,000.

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_____ 1975b, Aeromagnetic map of southwestern Montana and east-central Idaho: U.S. Geological Survey Open-File Report, 75–655, scale 1:250,000.

_____ 1981, Aeromagnetic map of northeastern Montana and western North Dakota: U.S. Geological Survey Open-File Report, 81–434, scale 1:250,000.

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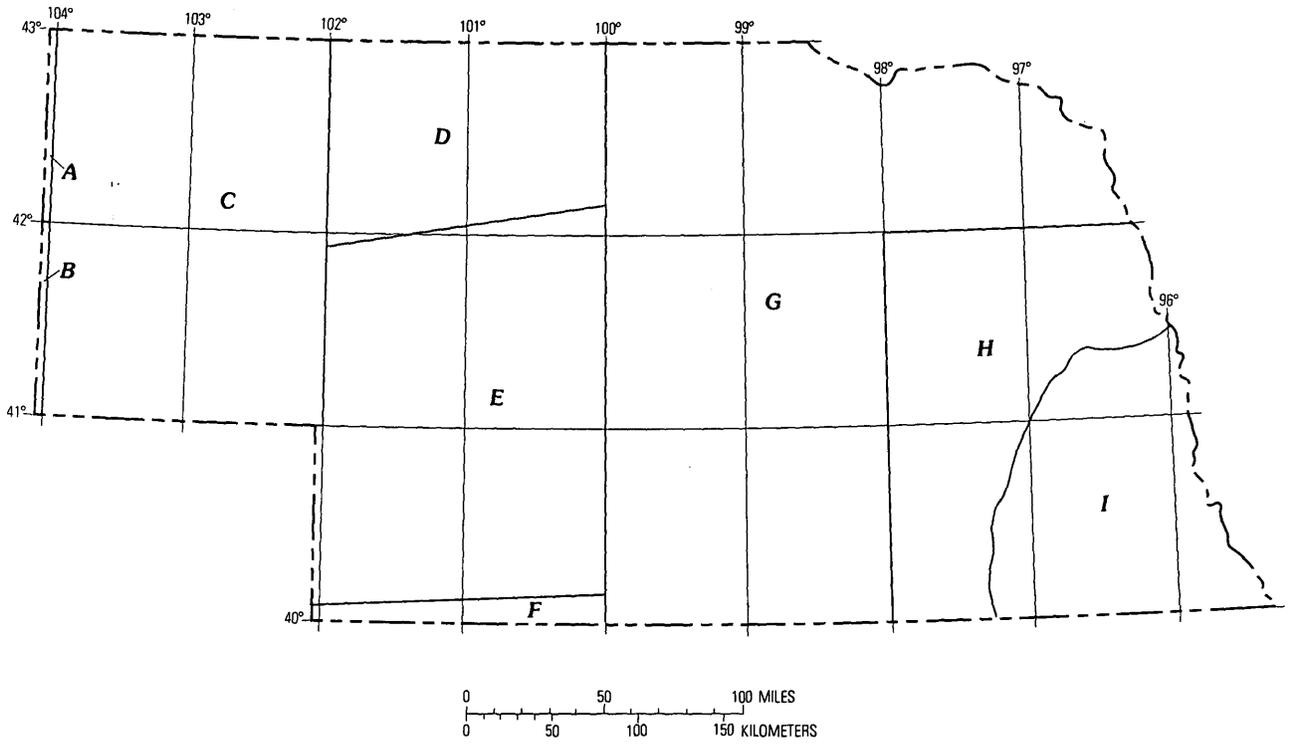

SPECIFICATIONS

A East-West, 400 feet above ground, 3 mile (EG&G GeoMetrics, 1979a)

B East-West, 400 feet above ground, 3 mile (EG&G GeoMetrics, 1979b)

C East-West, 400 feet above ground, 6 mile (EG&G GeoMetrics, 1980)

D East-West, 400 feet above ground, 6 mile (Geodata, 1981a)

E East-West, 6000 feet above sea level, 5 mile (Zietz and others, 1966)

F East-West, 400 feet above ground, 6 mile (Geodata, 1981b)

G East-West, 400 feet above ground, 5 mile (Texas Instruments, 1978)

H East-West, 400 feet above ground, 3 mile (EG&G GeoMetrics, 1978)

I East-West, 1000 feet above ground, 2 mile (USGS, 1973)

SOURCES OF DATA

EG&G GeoMetrics, 1978, National Uranium Resource Evaluation aerial gamma-ray and magnetic survey, Fremont quadrangle, Nebraska, Iowa; Lincoln quadrangle, Nebraska; Manhattan and Hutchinson quadrangles, Kansas—Final Report: U.S. Department of Energy Grand Junction Office [Report] GJBX 20-78, v. 2, n.p., scale 1:500,000.

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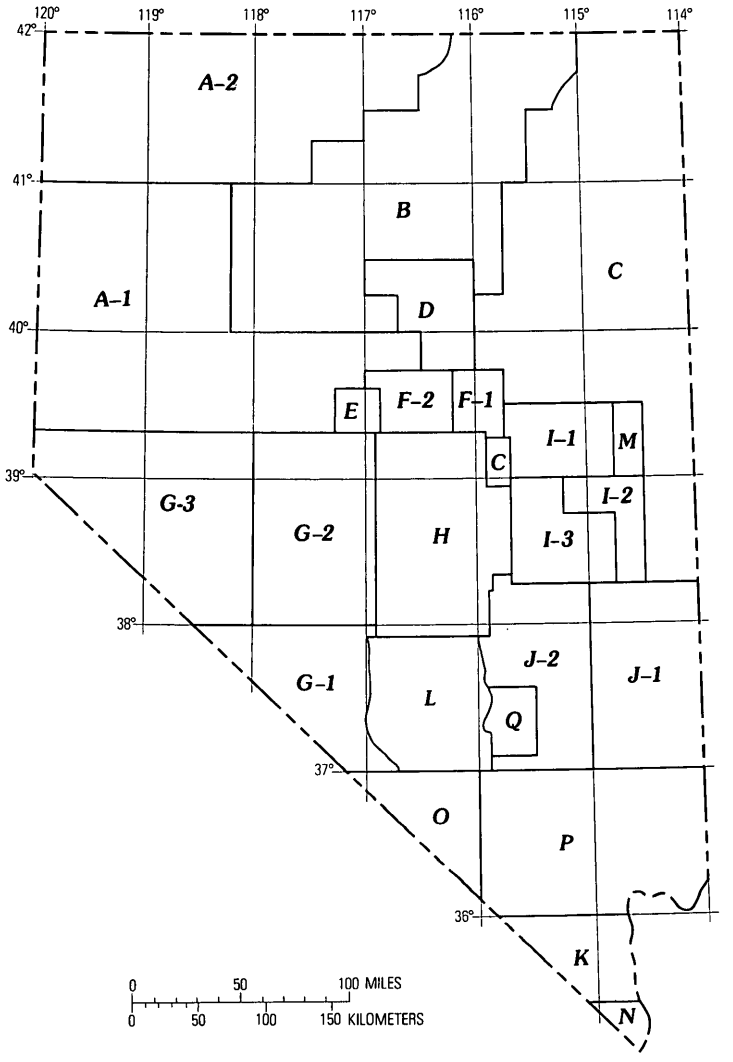

SPECIFICATIONS

A East-West, 9000 feet barometric, 2 mile (*A–1*, USGS, 1972a; *A–2*, USGS, 1972b)

B East-West, 1000 feet above ground, 0.5 mile (USGS, 1964); North-South, 9000 feet barometric, 1 mile (USGS, 1967a, b, c, and d; 1968a, c, e, f, g, h, i, j, k and l; 1970, 1973a, b, d, and e)

C North-South, 12,000 feet barometric, 5 mile (Zietz and others, 1978)

D North-South, 9000 feet barometric, 1 mile (Robertson, 1970)

E North-South, 9000 feet barometric, 1 mile (Davis and Stewart, 1970)

F North-South, 9000 feet barometric, 1 mile (*F–1*, USGS, 1968b); East-West 9000 feet barometric, 1 mile (*F–2*, USGS, 1969)

G East-West, 9000 to 15,000 feet barometric, 1 mile (*G–1*, USGS, 1971a; *G–2*, USGS, 1971b; *G–3*, USGS, 1971c)

H East-West, 500 and 1000 feet above ground, 1 mile (USGS, 1968d)

I North-South, 11,500 feet barometric, 1 mile (*I–1*, USGS, 1976c; *I–2*, USGS, 1976d; *I–3*, USGS, 1976e)

J North-South, 9000 feet barometric, 1 mile (*J–1*, USGS, 1973c; *J–2*, USGS, 1976a)

K East-West, 12,500 feet barometric, 5 mile (Zietz and others, 1978)

L East-West, 8000 feet barometric, 0.5 mile (Boynton and others, 1963a and b; Philbin and White, 1965a, b, c, d, e, f, g, h, i, and j)

M North-South, 12,000 feet barometric, 1 mile (USGS, 1976b)

N East-West, 9000 feet barometric, 3 mile (USGS, 1975)

O North-South, 400 feet above ground, 3 mile (Geo-Life, 1979)

P East-West, 400 feet above ground, 3 mile (Western Geophysical Co., 1979)

Q East-West, 8000 feet barometric, 1 mile (unpublished data)

SOURCES OF DATA

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Philbin, P. W., and White, B. L., Jr., 1965a, Aeromagnetic map of the Belted Peak quadrangle and part of the White Blotch Springs quadrangle, Nye County, Nevada: U.S. Geological Survey Geophysical Investigations Map GP-514, scale 1:62,500.

_____1965b, Aeromagnetic map of the Black Mountain quadrangle, Nye County, Nevada: U.S. Geological Survey Geophysical Investigations Map GP-519, scale 1:62,500.

_____1965c, Aeromagnetic map of the Cactus Spring quadrangle and part of the Goldfield quadrangle, Esmeralda and Nye Counties, Nevada: U.S. Geological Survey Geophysical Investigations Map GP-511, scale 1:62,500.

_____1965d, Aeromagnetic map of parts of the Cactus Peak and Stinking Spring quadrangles, Nye County, Nevada: U.S. Geological Survey Geophysical Investigations Map GP-517, scale 1:62,500.

_____1965e, Aeromagnetic map of parts of the Kawich Peak and Reveille Peak quadrangles, Nye County, Nevada: U.S. Geological Survey Geophysical Investigations Map GP-516, scale 1:62,500.

_____1965f, Aeromagnetic map of the Mellan quadrangle, Nye County, Nevada: U.S. Geological Survey Geophysical Investigations Map GP-518, scale 1:62,500.

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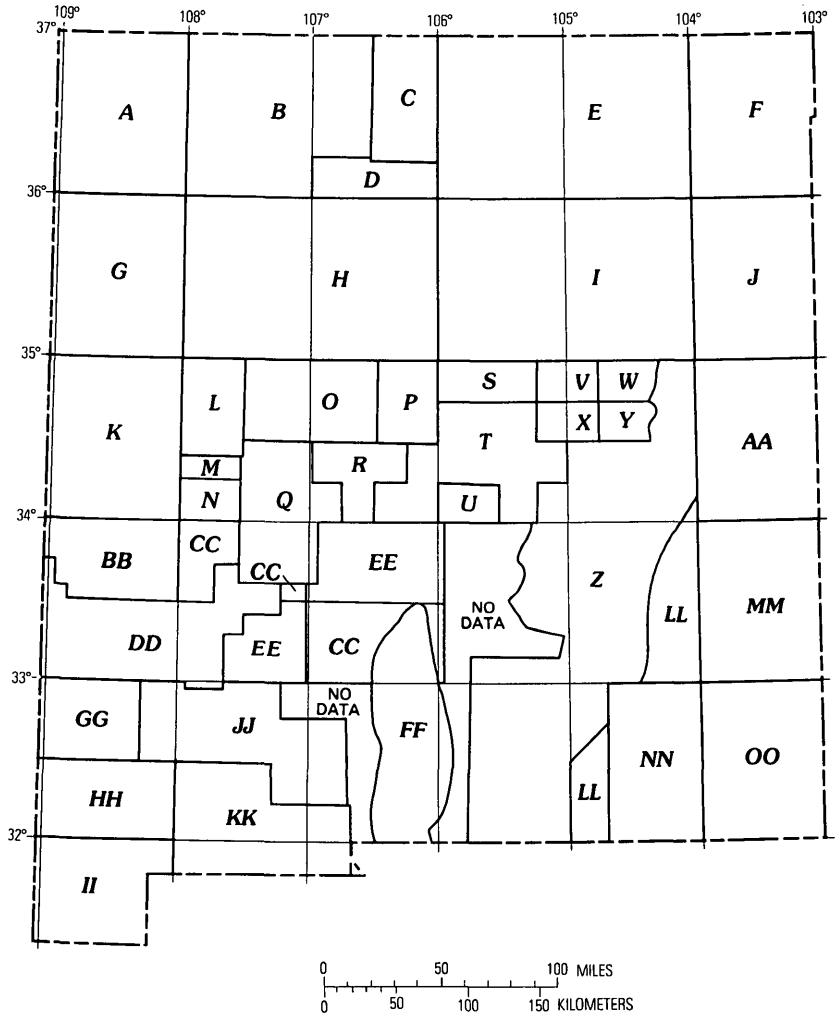

SPECIFICATIONS

A East-West, 400 feet above ground, 3 mile (EG&G GeoMetrics, 1979)
B North-South, 1000 feet above ground, 1 mile (USGS, 1980)
C East-West, 11,000 feet barometric, 1 mile (USGS, 1976a)
D East-West, 11,000 feet barometric, 1 mile (USGS, 1972a)
E East-West, 400 feet above ground, 6 mile (EG&G GeoMetrics, 1980)
F East-West, 400 feet above ground, 3 mile (Texas Instruments, Inc., 1980)
G East-West, 400 feet above ground, 3 mile (EG&G GeoMetrics, 1979)
H East-West, 400 feet above ground, 3 mile (EG&G GeoMetrics, 1979)
I East-West, 400 feet above ground, 3 mile (EG&G GeoMetrics, 1980)
J East-West, 400 feet above ground, 3 mile (Geodata International, Inc., 1976c)
K East-West, 400 feet above ground, 3 mile (Texas Instruments, Inc., 1979a)
L East-West, 8500 feet terrain clearance, 1 mile (USGS, 1979a)
M East-West, 9500 feet terrain clearance, 1 mile (USGS, 1979a)
N East-West, 400 feet above ground, 3 mile (Geo-Life, 1979a)
O East-West, 8000 feet barometric, 1 mile (USGS, 1975a)
P East-West, 10,000 feet barometric, 1 mile (USGS, 1975b)
Q East-West, 10,000 feet above sea level, 1 mile (USGS, 1974b)
R East-West, 8000 feet barometric, 1 mile (USGS, 1975c)
S East-West, 7500 feet barometric, 1 mile (USGS, 1976b)
T East-West, 7000 feet barometric, 1 mile (USGS, 1976b)
U East-West, 8500 feet barometric, 1 mile (USGS, 1976b)
V East-West, 1000 feet above ground, 1 mile (Dempsey and Hill, 1950c)
W East-West, 1000 feet above ground 1 mile (Dempsey and Hill, 1950d)
X East-West, 1000 feet above ground, 1 mile (Dempsey and Hill, 1950a)
Y East-West, 1000 feet above ground, 1 mile (Dempsey and Hill, 1950b)
Z Specifications unknown (unpublished data)
AA East-West, 400 feet above ground, 3 mile (Geodata International, Inc., 1976b)
BB East-West, 400 feet above ground, 3 mile (Texas Instruments, Inc., 1979b)
CC East-West, 400 feet above ground, 6 mile (Geo-Life, 1979b)
DD East-West,10,500 feet barometric, 1 mile (USGS, 1972b)
EE East-West, 400 feet above ground, 3 mile (Geo-Life, 1979b)
FF Northwest-Southeast, 1737 meter barometric, 2 kilometer (Bath, 1977)
GG East-West, 1500 feet mean terrain clearance, 0.6 mile (USGS, 1979b)
HH East-West, 400 feet above ground, 3 mile (Texas Instruments, Inc., 1979d)
II East-West, 400 feet above ground, 3 mile (Texas Instruments, Inc., 1979c)
JJ East-West, 10,000 feet above sea level, 1 mile (USGS, 1974a)
KK Specifications unknown (unpublished data)
LL Vertical-intensity ground survey, 1 mile (unpublished data)
MM East-West, 400 feet above ground, 3 mile (Geodata International, Inc., 1976a)
NN East-West, 500 feet above ground, 1 mile (USGS, 1973)
OO East-West, 400 feet above ground, 3 mile (Geodata International, Inc., 1980)

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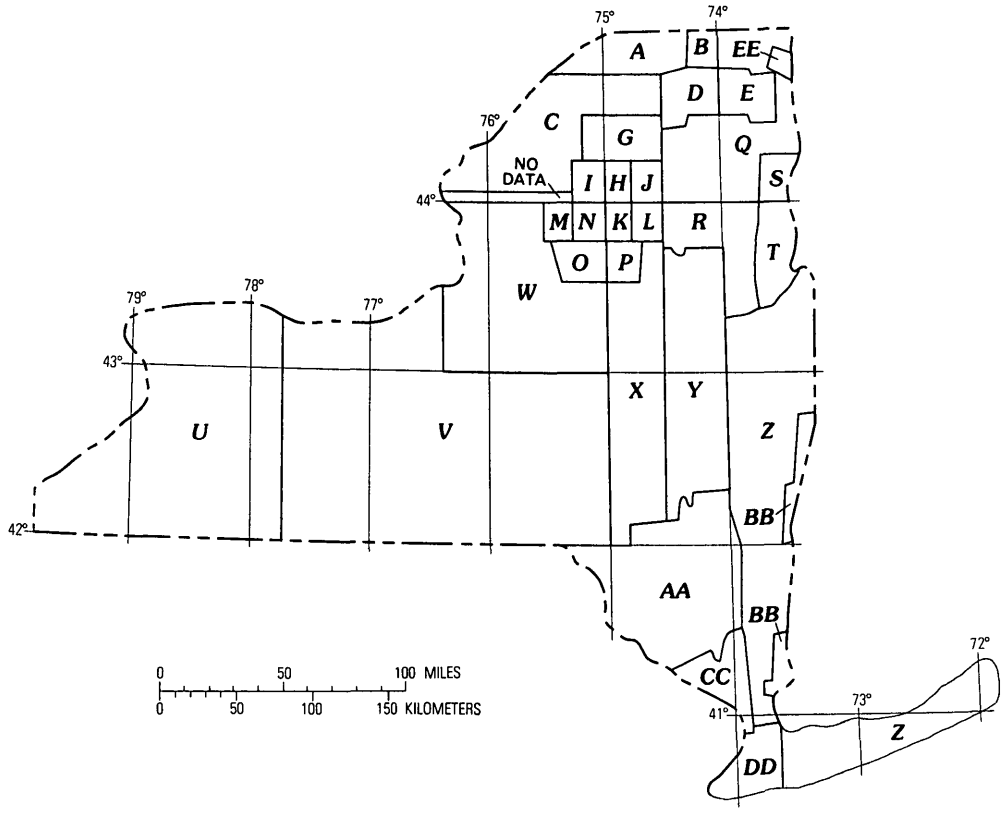

SPECIFICATIONS

A East-West, 1700 feet barometric, 1 mile (USGS, 1979b)
B East-West, 1700 feet barometric, ½ mile (USGS, 1979b)
C East-West, 500 feet above ground, ½ mile (USGS, 1975a)
D North-South, 1000 feet above ground, ¼ mile (Zietz and others, 1972)
E East-West, 1000 feet above ground, ¼ mile (Zietz and others, 1972)
F East-West, 1000 feet above ground, ¼ mile (Zietz and others, 1972)
G North-South, 1000 feet above ground, ¼ mile (Balsley and others, 1954b)
H North-South, 1000 feet above ground, ¼ mile (Balsley and others, 1954a)
I East-West, 1000 feet above ground, ¼ mile (Balsley and others, 1959a)
J East-West, 1000 feet above ground, ¼ mile (Balsley and others, 1959b)
K North-South, 1000 feet above ground, ½ mile (Balsley and others, 1965a)
L North-South, 1000 feet above ground, ½ mile (Balsley and others, 1965f)
M East-West, 1000 feet above ground, ½ mile (Balsley and others, 1965b)
N East-West, 1000 feet above ground, ½ mile (Balsley and others, 1965d)
O East-West, 1000 feet above ground, ½ mile (Balsley and others, 1965c)
P East-West, 1000 feet above ground, ½ mile (Balsley and others, 1965e)
Q East-West, 1000 feet above ground, 1 mile (USGS, 1978)
R North-South, 1000 feet above ground, 1 mile (USGS, 1978)
S East-West, 1000 feet above ground, ½ mile (Zietz and others, 1972)
T North-South, 1000 feet above ground, ½ mile (Zietz and others, 1972)
U East-West, 1000 feet above ground, 2 mile (USGS, 1975b
V East-West, 3000 feet barometric, 2 mile (USGS, 1979a)
W East-West, 1000 feet above ground, 1 mile (USGS, 1977)
X North-South, 500 feet above ground, 1 mile (unpublished data)
Y North-South, 500 feet above ground, 1 mile (Zietz and others, 1972)
Z East-West, 500 feet above ground, 1 mile (Zietz and others, 1972)
AA East-West, 3000 feet barometric, 2 mile (USGS, 1979c)
BB East-West, 500 feet above ground, ½ mile (Zietz and others, 1972)
CC North-South, 500 feet above ground, ½ mile (Henderson and others, 1966)
DD Northwest-Southeast, 500 to 2500 feet barometric, 5 mile (Zietz and others, 1972)
EE Specifications unknown (unpublished data)

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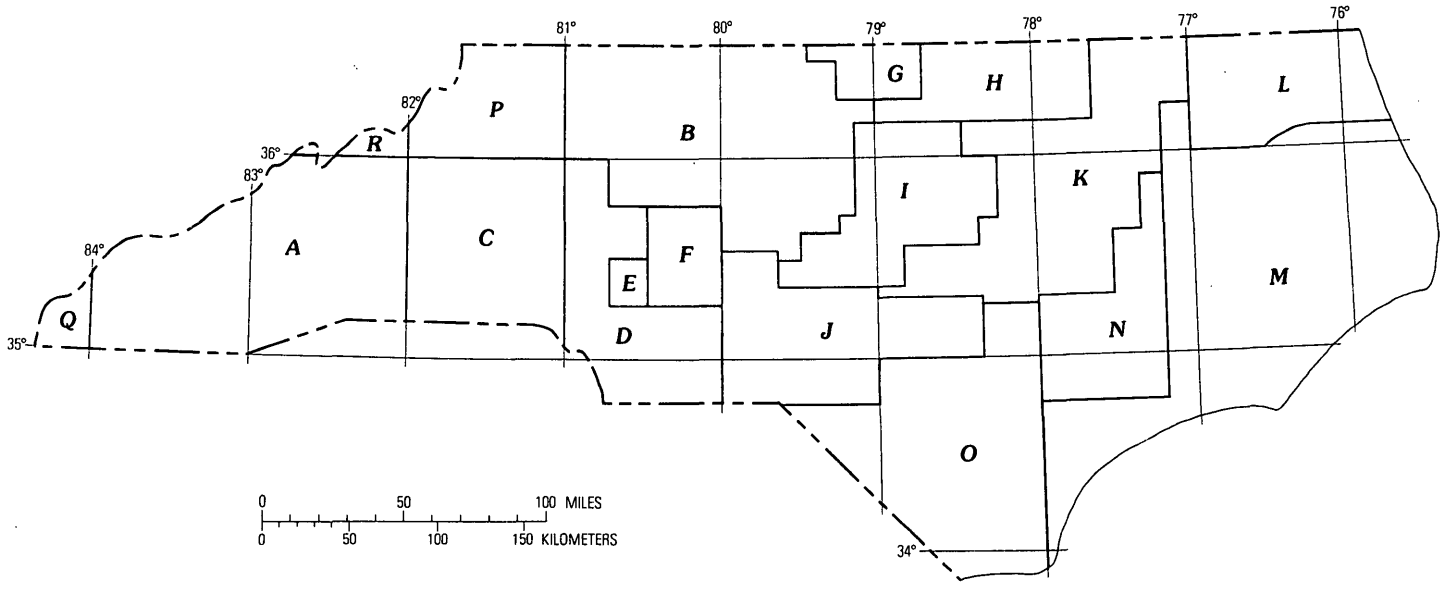

SPECIFICATIONS

All areas flown east-west, except area *P* which was flown north-south.

A 400 feet above ground, 3 mile (LKB Resources, 1979b)
B 500 feet above ground, 1 mile (USGS, 1977a)
C 500 feet above ground, 1 mile (USGS, 1978c)
D 500 feet above ground, 1 mile (USGS, 1977c)
E 500 feet above ground, ½ mile (Bates and Bell, 1965)
F 500 feet above ground, ½ mile (Henderson and Gilbert, 1966)
G 400 feet above ground, ½ mile (USGS, 1971a, b, c, d, and e)
H 400 feet above ground, ½ mile (USGS, 1973a, b, c, d, and e)
I 500 feet above ground, ½ mile (USGS, 1974)
J 500 feet above ground, 1 mile (USGS, 1977b)
K 500 feet above ground, 1 mile (Coastal Plains Regional Commission and USGS, 1976a)
L 500 feet above ground, 1 mile (USGS, 1977d)
M 500 feet above ground, 1 mile (USGS, 1978b)
N 500 feet above ground, 1 mile (Coastal Plains Regional Commission and USGS, 1976b)
O 500 feet above ground, 1 mile (USGS, 1978a)
P 5000 feet barometric, 1 mile (USGS, 1976)
Q 400 feet above ground, 6 mile (Carson Helicopters, 1980)
R 400 feet above ground, 3 mile (LKB Resources, 1979a)

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_____ 1971c, Aeromagnetic map of the South Boston quadrangle, Halifax County, Virginia, and Person and Granville Counties, North Carolina: U.S. Geological Survey Geophysical Investigations Map GP–747, scale 1:62,500.

_____ 1971d, Aeromagnetic map of the Winstead quadrangle, Person and Caswell Counties, North Carolina: U.S. Geological Survey Geophysical Investigations Map GP–748, scale 1:62,500.

_____ 1971e, Aeromagnetic map of the Roxboro quadrangle, Person and Granville Counties, North Carolina: U.S. Geological Survey Geophysical Investigations Map GP–749, scale 1:62,500.

_____ 1973a, Aeromagnetic map of the Oxford quadrangle and part of the Clarksville quadrangle, north-central North Carolina: U.S. Geological Survey Geophysical Investigations Map GP-882, scale 1:62,500.

_____ 1973b, Aeromagnetic map of the northern parts of the Durham North and Creedmore quadrangles, north-central North Carolina: U.S. Geological Survey Geophysical Investigations Map GP-883, scale 1:62,500.

_____ 1973c, Aeromagnetic map of the Henderson quadrangle and parts of the Louisburg and Boydton quadrangles, north-central North Carolina: U.S. Geological Survey Geophysical Investigations Map GP-884, scale 1:62,500.

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_____ 1977a, Aeromagnetic map of north-central North Carolina: U.S. Geological Survey Open-File Report 77–192, scale 1:250,000.

_____ 1977b, Aeromagnetic map of south-central North Carolina: U.S. Geological Survey Open-File Report 77–205, scale 1:250,000.

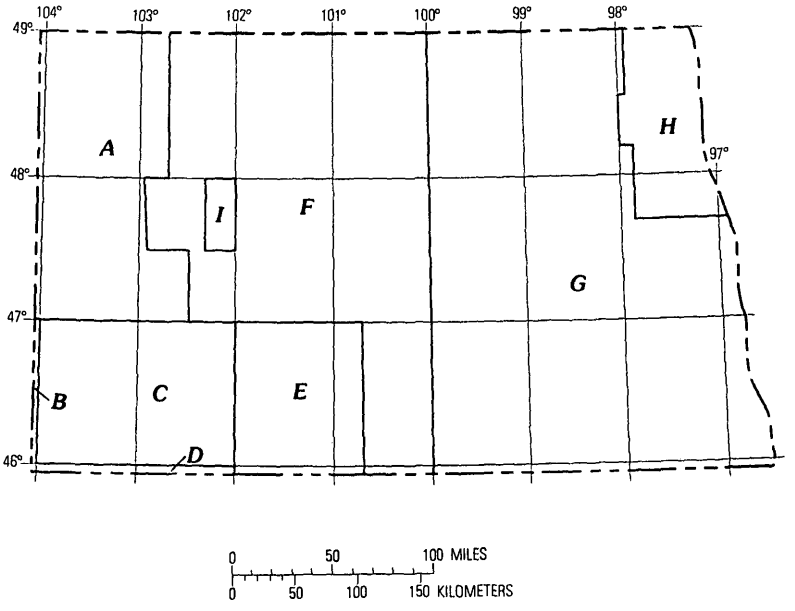
_____ 1977c, Aeromagnetic map of Charlotte and vicinity, North Carolina: U.S. Geological Survey Open-File Report 77–723, scale 1:250,000.

_____ 1977d, Aeromagnetic map of the northern North Carolina coast: U.S. Geological Survey Open-File Report 77-804, scale 1:250,000.

_____ 1978a, Aeromagnetic map of Elizabethtown and vicinity, North Carolina: U.S. Geological Survey Open-File Report 78–758, scale 1:250,000.

_____ 1978b, Aeromagnetic map of southeastern North Carolina: U.S. Geological Survey Open-File Report 78–764, scale 1:250,000.

_____ 1978c, Aeromagnetic map of west Charlotte, North Carolina: U.S. Geological Survey Open-File Report 78–1088, scale 1:250,000.



SPECIFICATIONS

A East-West, 4000 feet barometric, 3 mile (USGS, 1981b)
B East-West, 15,000 feet barometric, 5 mile (Zietz and others, 1971)
C East-West, 400 feet above ground, 3 mile (Geodata, 1979b)
D East-West, 400 feet above ground, 3 mile (Geodata, 1979a)
E East-West, 3500 feet barometric, 3 mile (USGS, 1981a)
F East-West, 3000 feet above sea level, 1 mile (Aeroservice Corporation, unpublished data)
G Total intensity ground magnetics, 3 mile (unpublished data
H Total intensity ground magnetics, 2 mile (Okland, 1978)
I East-West, 3500 feet barometric, 3 mile (USGS, 1981b)

SOURCES OF DATA

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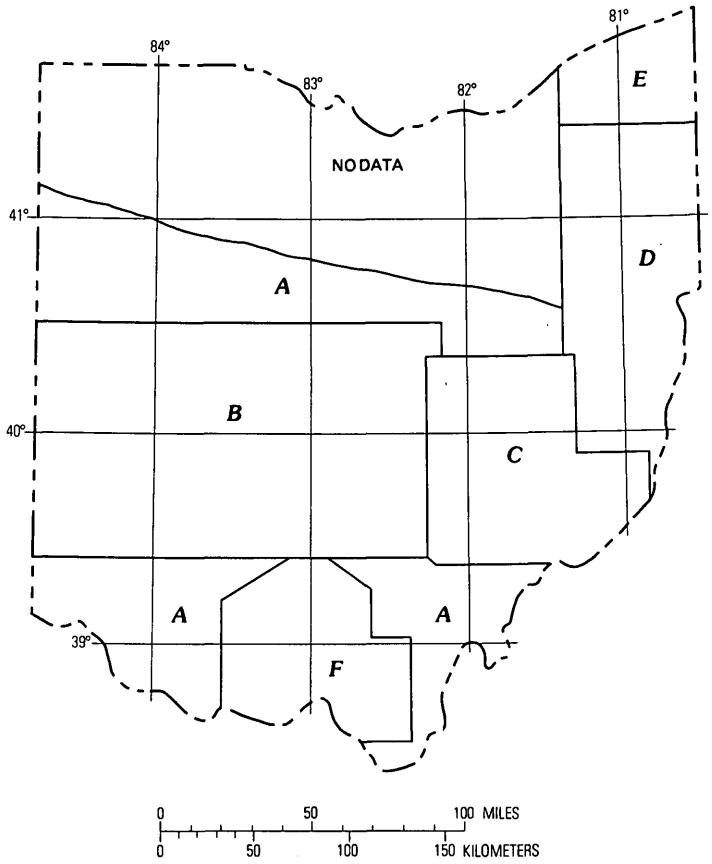

SPECIFICATIONS

A East-West, 6000 feet above sea level, 5 miles (Zietz and others, 1966)
B East-West, 500 feet above ground, 1 mile (Philbin and others, 1965)
C East-West, 2000 feet barometric, 1½ mile (USGS, 1980)
D North-South, 500 feet above ground, 1 mile (Popenoe and others, 1964)
E unpublished ground magnetics
F unknown (Patterson, 1980)

SOURCES OF DATA

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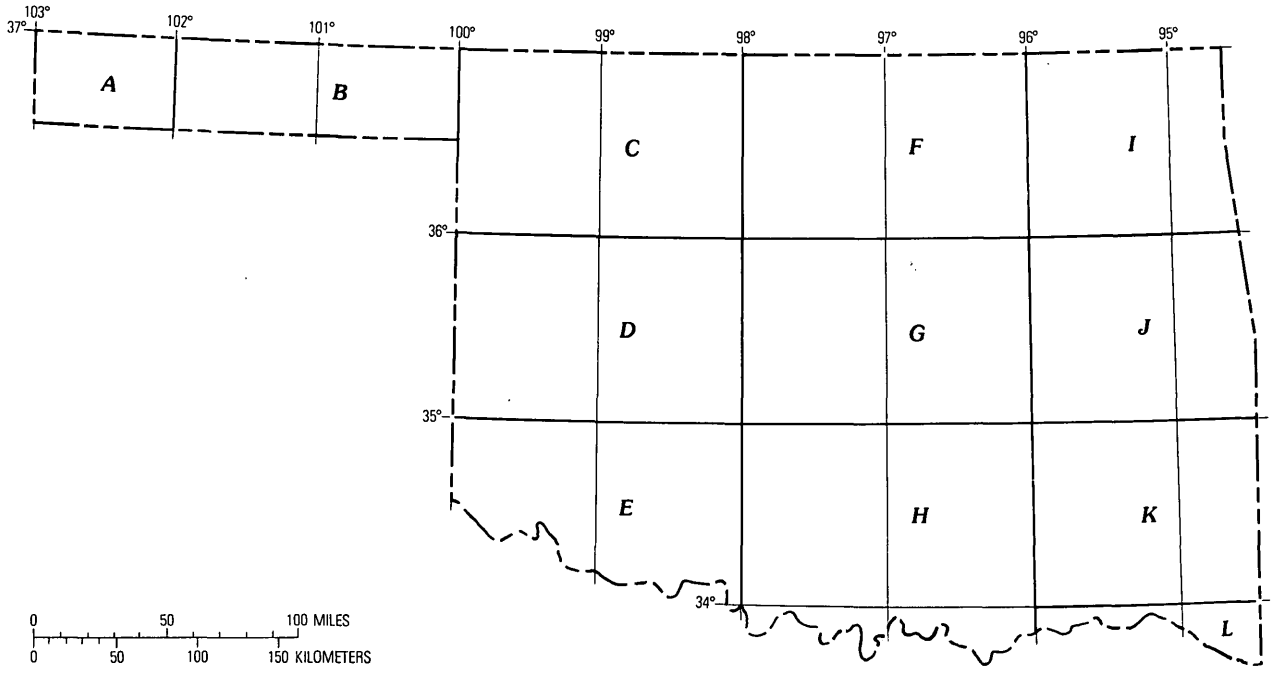

SPECIFICATIONS

- ***A*** East-West, 400 feet above ground, 3 mile (Texas Instruments, 1980)
- ***B*** East-West, 400 feet above ground, 6 mile (Geodata, 1980a)
- ***C*** East-West, 400 feet above ground, 6 mile (Geodata, 1980b)
- ***D*** East-West, 400 feet above ground, 3 mile (Geodata, 1976)
- ***E*** East-West, 400 feet above ground, 3 mile (Geodata, 1976)
- ***F*** East-West, 400 feet above ground, 3 mile (Texas Instruments, 1978)
- ***G*** East-West, 400 feet above ground, 3 mile (Geodata, 1976)
- ***H*** East-West, 400 feet above ground, 3 mile (Texas Instruments, 1977)
- ***I*** East-West, 400 feet above ground, 3 mile (Texas Instruments, 1978)
- ***J*** East-West, 400 feet above ground, 6 mile (GeoMetrics, 1980b)
- ***K*** East-West, 400 feet above ground, 6 mile (Geodata, 1979)
- ***L*** East-West, 400 feet above ground, 3 mile (GeoMetrics, 1980a)

SOURCES OF DATA

EG&G GeoMetrics, 1980a, National Uranium Resource Evaluation aerial gamma-ray and magnetic reconnaissance survey, Nebraska-Texas project, Tyler, Texarkana, and Waco quadrangles of Texas, Oklahoma, Arkansas, and Louisiana—Final Report: U.S. Department of Energy Grand Junction Office [Report] GJBX 69-80, v. 2, n.p., scale 1:500,000.

_____ 1980b, National Uranium Resource Evaluation aerial gamma-ray and magnetic reconnaissance survey, Fort Smith quadrangle, Oklahoma and Arkansas—Final Report: U.S. Department of Energy Grand Junction Office [Report] GJBX 200-80, v. 2, n.p., scale 1:500,000.

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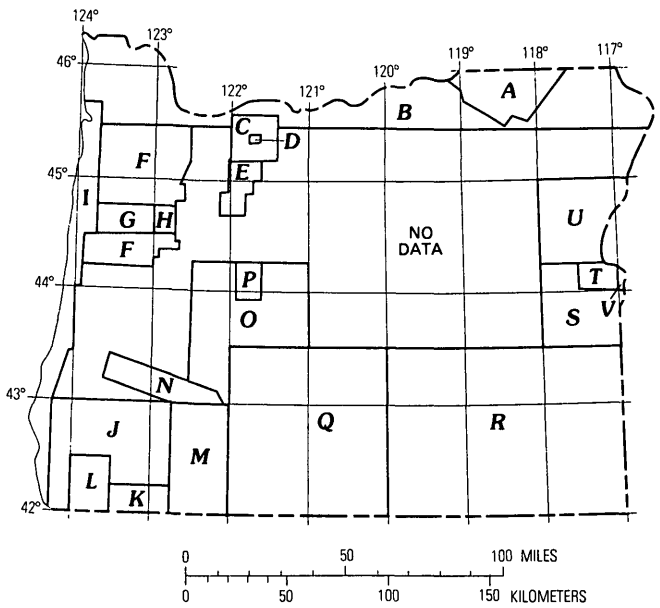
OREGON



SPECIFICATIONS

- ***A*** Northeast-Southwest, 1000 feet above mean terrain, 0.5 mile (United Engineers and Constructors, Inc., 1978)
- ***B*** East-West, 15,000 feet barometric, 5 mile (Zietz and others, 1971)
- ***C*** East-West, 7000 feet barometric, 1 mile (USGS, 1977b)
- ***D*** East-West, 14,000 feet barometric, 1 mile (USGS, 1977b)
- ***E*** East-West, 7000 feet barometric, 1 mile (USGS, 1977a)
- ***F*** East-West, 4000 feet barometric, 3 to 18 mile (Bromery and Snavely, 1964)
- ***G*** East-West, 1000 feet above ground, 0.5 mile (Bromery, 1965)
- ***H*** East-West, 750 feet above ground, 0.5 mile (Bromery, 1962)
- ***I*** East-West, 3500 feet above sea level, 2 mile (Lockwood, Kessler, and Bartlett, Inc., [1968?])
- ***J*** East-West, 4500 feet barometric, 1 mile (USGS, 1979)
- ***K*** East-West, 6500 feet barometric, 1 mile (USGS, 1979)
- ***L*** East-West, 4500 feet barometric, 0.5 mile (Balsley and others, 1960)
- ***M*** East-West, 9000 feet above sea level, 2 mile (USGS, 1973)
- ***N*** Northeast-Southwest, 6500 feet barometric, 1 mile (unpublished data)
- ***O*** East-West, 9000 feet above sea level, 1 mile (Couch and others, 1978a, c)
- ***P*** East-West,11,000 feet above sea level, 1 mile (Couch and others, 1978a, c)
- ***Q*** East-West, 9000 feet barometric, 2 mile (USGS, 1972b)
- ***R*** East-West, 9000 feet barometric, 2 mile (USGS, 1972a)
- ***S*** East-West, 7000 feet above sea level, 1 mile (Couch and others, 1978b)
- ***T*** East-West, 5000 feet above sea level, 1 mile (Couch and others, 1978b)
- ***U*** East-West, 400 feet above ground, 3 mile (Geo-Life, 1978)
- ***V*** East-West, 400 feet above ground, 3 mile (EG&G GeoMetrics, Inc., 1980)

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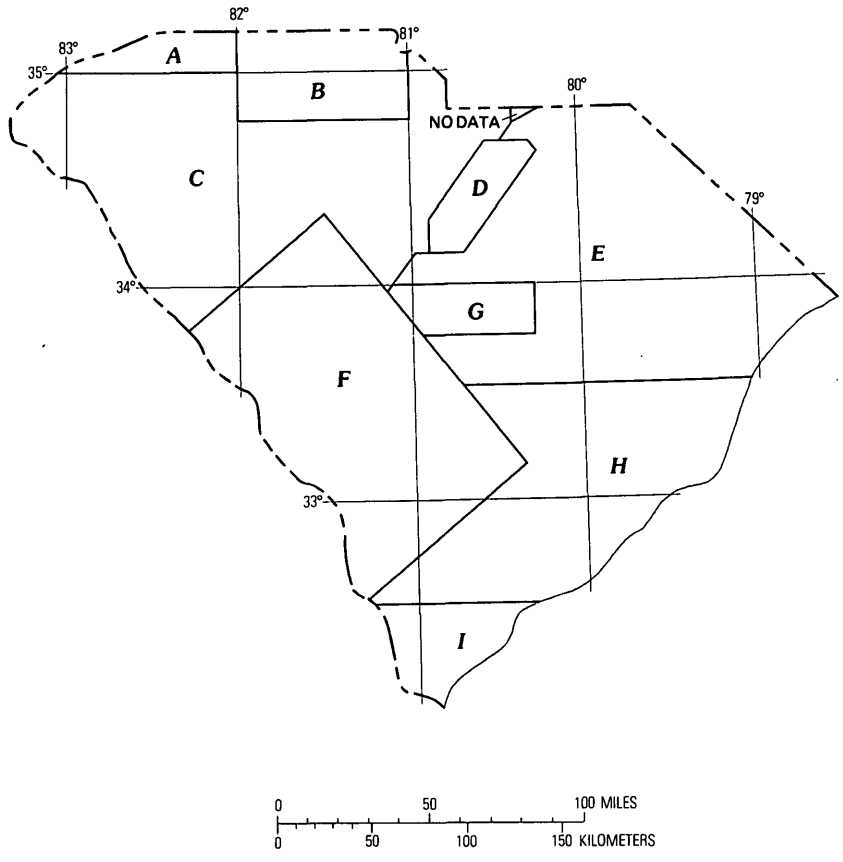
SOUTH CAROLINA



SPECIFICATIONS

A East-West, 400 feet above ground, 3 mile (LKB Resources, 1979)
B East-West, 500 feet above ground, 1 mile (USGS, 1977)
C East-West, 500 feet above ground, 1 mile (Riggle and others, 1980)
D East-West, 400 feet above ground, ½ mile (USGS, 1970)
E East-West, 500 feet above ground, 1 mile (Tyson and others, 1980)
F Northwest-Southeast, 500 feet above ground, 1 mile (Petty and others, 1965)
G East-West, 500 feet above ground, 1 mile (USGS, 1976a)
H North-South, 500 feet above ground, 1 mile (USGS, 1975)
I East-West, 500 feet above ground, 1 mile (USGS, 1976b)

SOURCES OF DATA

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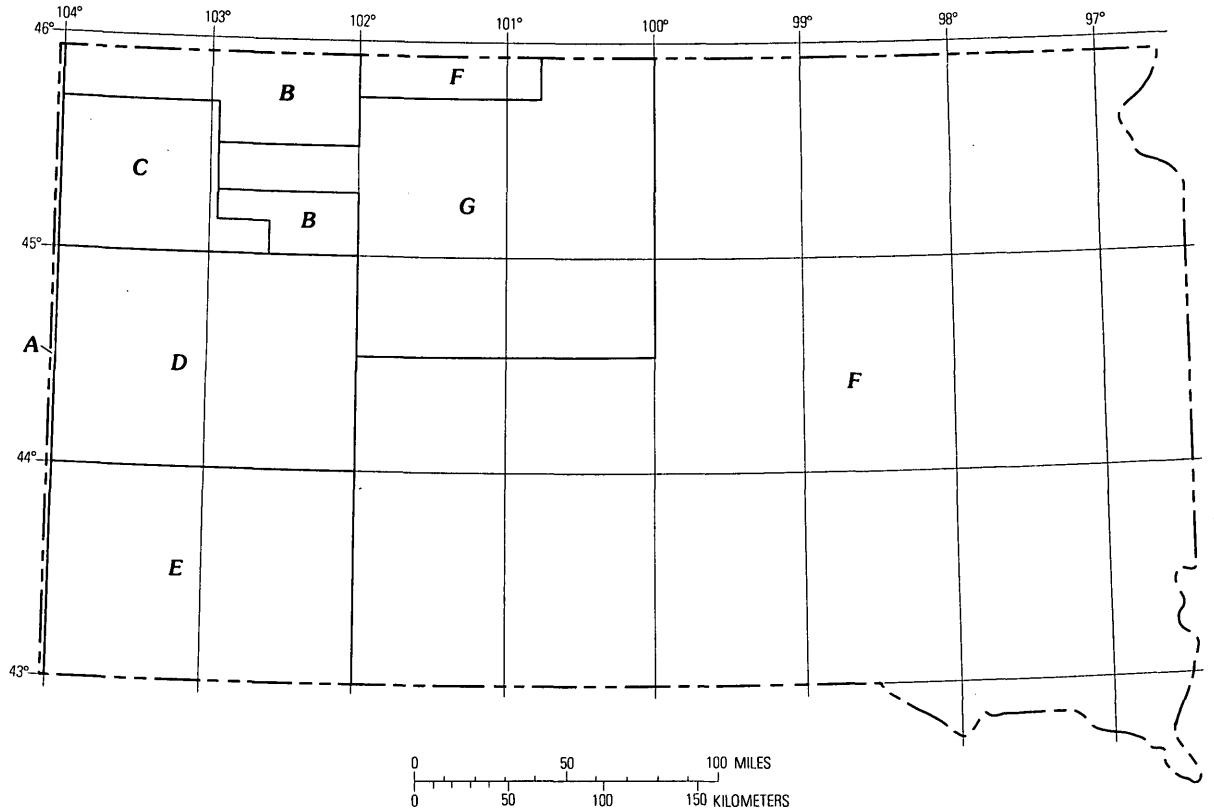
SOUTH DAKOTA



SPECIFICATIONS

A East-West, 400 feet above ground, 3 mile (EG&G GeoMetrics, 1980)

B East-West, 400 feet above ground, 3 mile (Geodata, 1979)

C Vertical intensity ground magnetics, 1 mile spacing (Mobil Oil Company, unpublished data)

D East-West, 400 feet above ground, 3 mile (EG&G GeoMetrics, 1979)

E East-West, 400 feet above ground, 3 mile (Texas Instruments, 1979)

F Vertical intensity ground magnetics, 4-6 mile (Petsch, 1967)

G East-West, 3000 feet above sea level, 6 mile (Aeroservice Corporation, unpublished data)

SOURCES OF DATA

EG&G GeoMetrics, 1979, National Uranium Resource Evaluation aerial gamma-ray and magnetic survey, Idaho project, Rapid City quadrangle, South Dakota—Final Report: U.S. Department of Energy Grand Junction Office [Report] GJBX 83-80, v. 2, n.p., scale 1:500,000.

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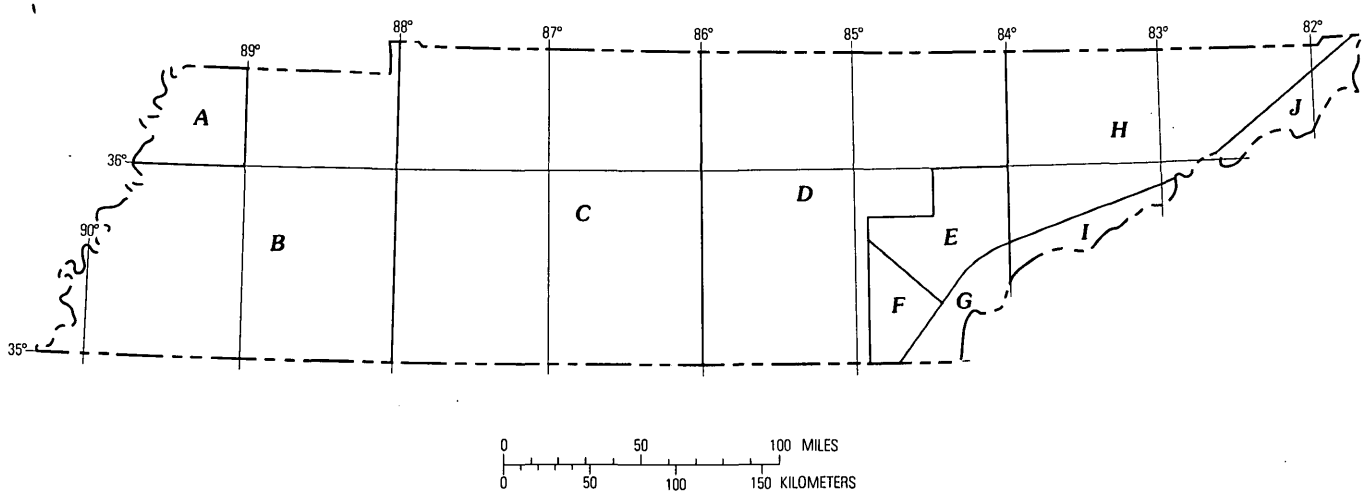

SPECIFICATIONS

All surveys flown in an east-west direction with altitude and spacing as shown below.

- ***A*** 1500 feet constant barometric altitude, 1 mile (USGS, 1974)
- ***B*** 1500 feet constant barometric altitude, 1 mile (Johnson and others, 1979)
- ***C*** 1000 feet above ground, 1 mile (Johnson and others, 1979)
- ***D*** 2500 feet above mean sea level, 1 mile (Johnson and others, 1979)
- ***E*** 3500 feet above mean sea level, 2 mile (Johnson and others, 1979)
- ***F*** 3500 feet above mean sea level, 1 mile (Johnson and others, 1979)
- ***G*** 400 feet above ground, 6 miles (Carson Helicopters, Inc., 1980)
- ***H*** 3500 feet above mean sea level, 2 mile (Johnson and others, 1979)
- ***I*** 400 feet above ground, 3 mile (LKB Resources, Inc., 1979b)
- ***J*** 400 feet above ground, 3 mile (LKB Resources, Inc., 1979a)

SOURCES OF DATA

Carson Helicopters, Inc., 1980, National Uranium Resource Evaluation aerial gamma-ray and magnetic reconnaissance survey of portions of Alabama, Georgia, Kentucky, Maryland, North Carolina, Ohio, Pennsylvania, Virginia and West Virginia (Chattanooga quadrangle)—Final Report: U.S. Department of Energy Grand Junction Office [Report] GJBX 92-80, v. 2J, n.p., scale 1:500,000.

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_____ 1979b, National Uranium Resource Evaluation aerial gamma-ray and magnetic reconnaissance survey of the Blue Ridge Area, Knoxville and Charlotte quadrangles—Final Report: U.S. Department of Energy Grand Junction Office [Report] GJBX 57-79, v. 2, n.p., scale 1:500,000.

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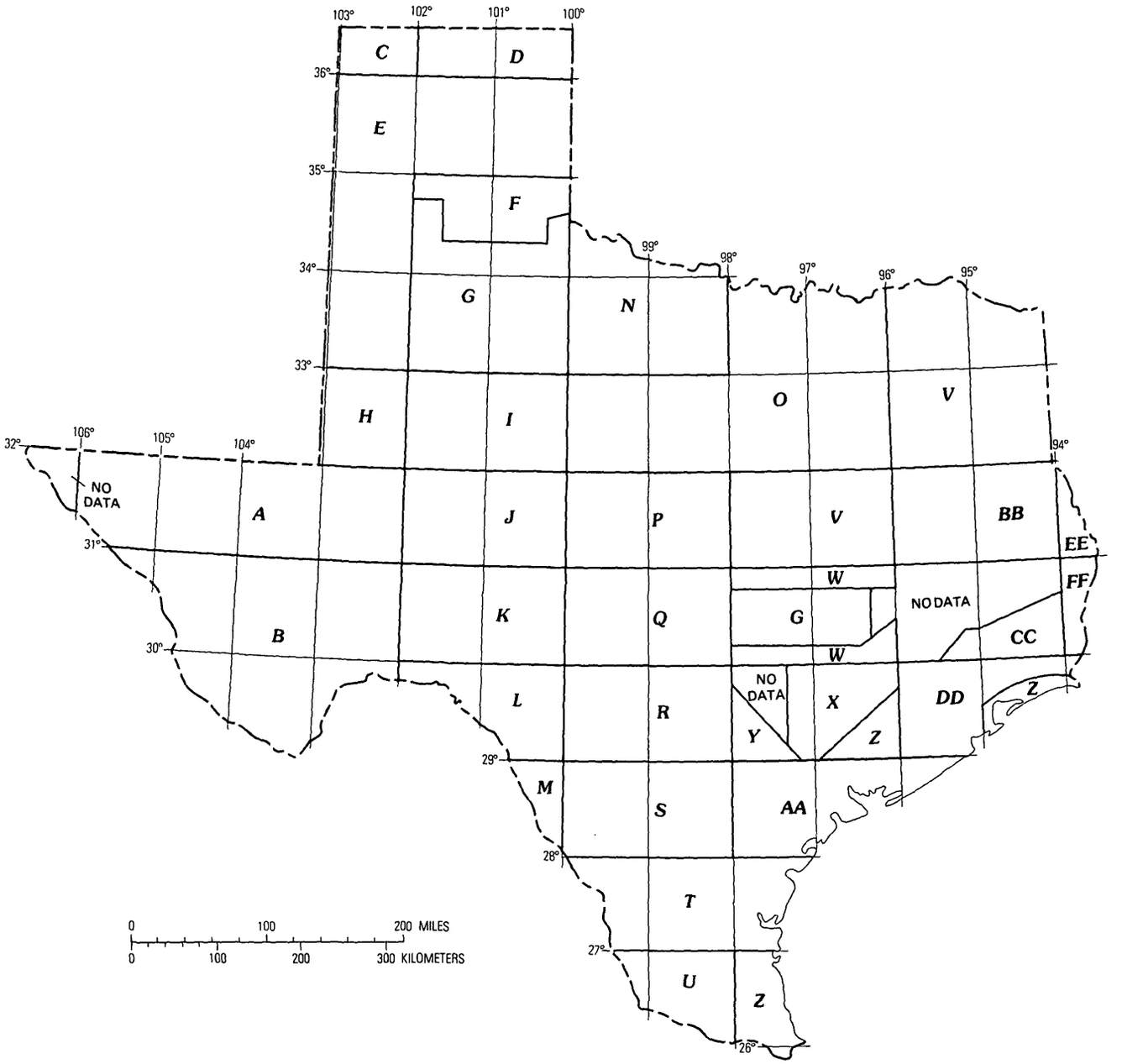
TEXAS



SPECIFICATIONS

A East-West, 400 feet above ground, 3 mile (EG&G Geometrics, 1978)
B East-West, 400 feet above ground, 3 mile (LKB Resources, 1979)
C East-West, 400 feet above ground, 3 mile (Texas Instruments, 1980c)
D East-West, 400 feet above ground, 6 mile (Geodata, 1980h)
E East-West, 400 feet above ground, 3 mile (Geodata, 1976a)
F Unpublished data
G Vertical intensity ground magnetic data (Chevron Oil Company, unpublished data)
H East-West, 400 feet above ground, 3 mile (Geodata, 1980g)
I East-West, 400 feet above ground, 3 mile (Geodata, 1980f)
J East-West, 400 feet above ground, 3 mile (Geodata, 1980e)
K East-West, 400 feet above ground, 3 mile (Geodata, 1980i)
L East-West, 400 feet above ground, 3 mile (Geodata, 1980b)
M East-West, 400 feet above ground, 3 mile (Geodata, 1980c)
N East-West, 400 feet above ground, 3 mile (Geodata, 1976b)
O East-West, 400 feet above ground, 3 mile (Texas Instruments, 1977)
P East-West, 400 feet above ground, 3 mile (Geodata, 1979a)
Q East-West, 400 feet above ground, 3 mile (Geodata, 1980a)
R East-West, 400 feet above ground, 3 mile (Geodata, 1980d)
S East-West, 400 feet above ground, 3 mile (Geodata, 1979c)
T East-West, 400 feet above ground, 3 mile (Geodata, 1979d)
U East-West, 400 feet above ground, 3 mile (Geodata, 1978b)
V East-West, 400 feet above ground, 3 mile (EG&G GeoMetrics, 1980a)
W East-West, 400 feet above ground, 3 mile (Geodata, 1979e)
X Ground magnetic data (Gulf Oil Company, unpublished data)
Y North-South, 1000 feet above ground, 2 mile (USGS, 1974)
Z Specifications unknown (unpublished data)
AA East-West, 400 feet above ground, 3 mile (Geodata, 1979b)
BB East-West, 400 feet above ground, 3 mile (Texas Instruments, 1980b)
CC East-West, 400 feet above ground, 3 mile (Texas Instruments, 1980a)
DD East-West, 400 feet above ground, 3 mile (Geodata, 1978a)
EE East-West, 400 feet above ground, 6 mile (EG&G GeoMetrics 1980b)
FF East-West, 400 feet above ground, 6 mile (EG&G GeoMetrics 1980c)

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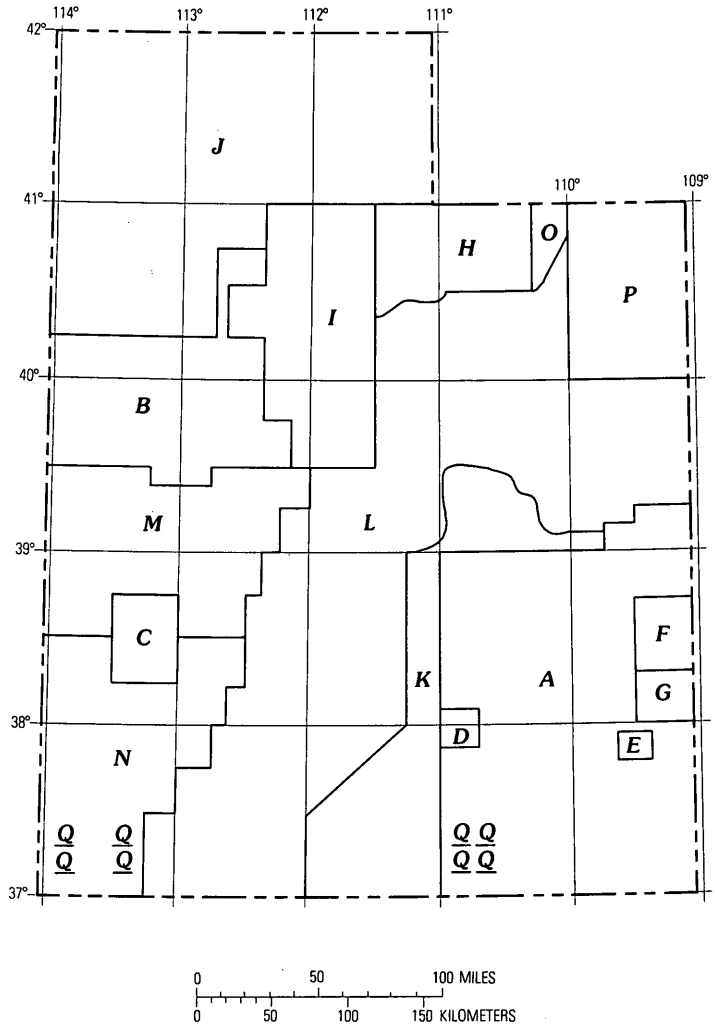
UTAH



SPECIFICATIONS

A East-West, 8500 feet barometric, 1 mile (Case and Joesting,1972)
B East-West, 9000 feet barometric, 1 mile (USGS, 1971)
C East-West, 9000 feet barometric, 1 mile (USGS, 1966)
D East-West, 12,500 feet barometric, 1 mile (Case and Joesting, 1972)
E East-West, 11,500 feet barometric, 1 mile (Case and Joesting, 1972)
F East-West, 12,500 feet barometric, 1 mile (Case and others, 1963)
G East-West, 500 feet above ground, 2 mile (Byerly and Joesting, 1959)
H East-West, 11,000 feet barometric, 2 mile (Crittenden and others, 1967)
I East-West, 12,000 feet barometric, 2 mile (Mabey and others, 1964)
J North-South, 12,000 feet barometric, 5 mile (Zietz and others, 1976)
K North-South, 8500 feet barometric, 2 to 4 mile (G. K. Eppich, R. T. Shuey, D. K. Schellinger, and L. B. Alley, between 1971 and 1974, Zietz and others, 1976)
L North-South, 12,000 feet barometric, 2 to 4 mile (L. B. Alley and R. T. Shuey, between 1971 and 1974, Zietz and others, 1976)
M East-West, 9000 feet barometric, 2 mile (USGS, 1972a)
N East-West, 9000 feet barometric, 2 mile (USGS, 1972b)
O North-South, 14,000 feet barometric, 2 mile (Steenland, 1969)
P East-West, 400 feet above ground, 3 mile (Geo-Life, 1979)
Q East-West, 15,000 feet barometric, individual flight lines (unpublished data)

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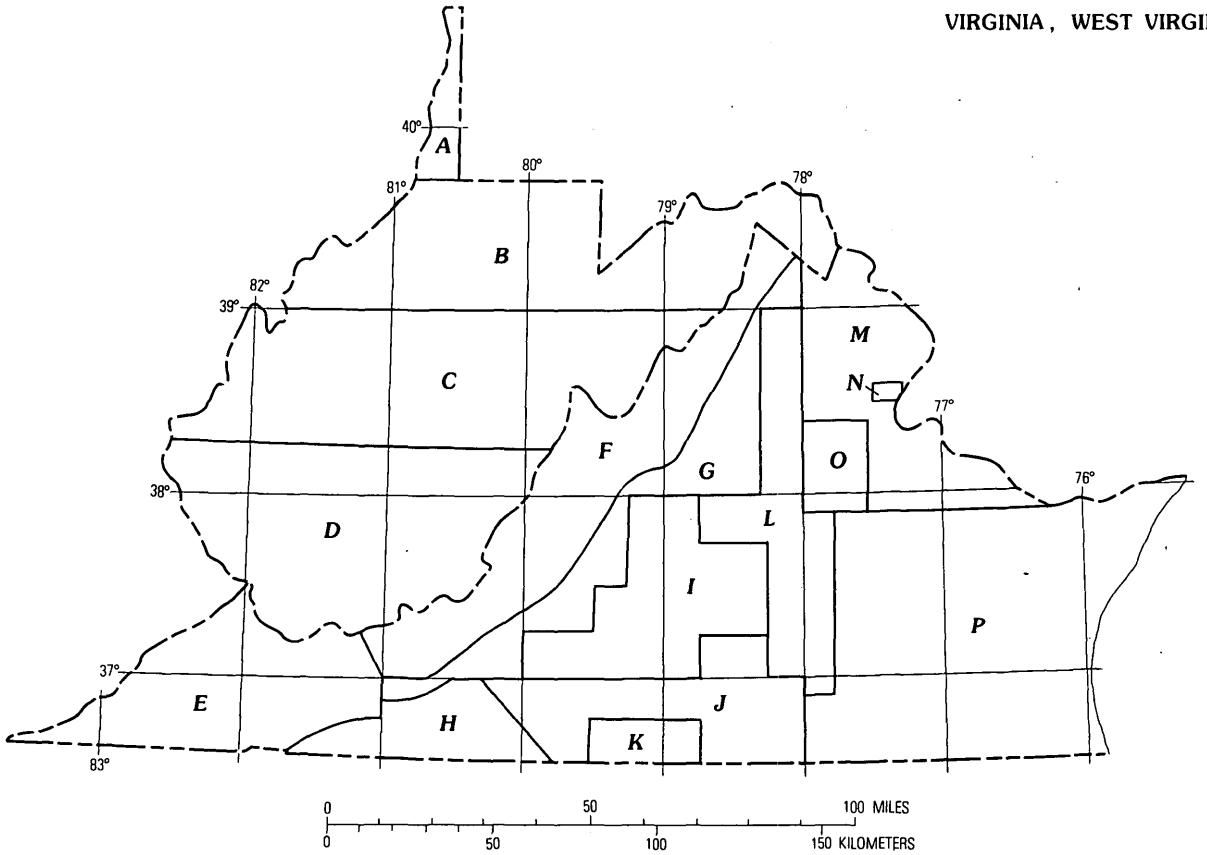

SPECIFICATIONS

A North-South, 1000 feet above ground, 1 mile (USGS, 1976)

B Northwest-Southeast, 1000 feet above ground, 1 mile (USGS, 1976)

C Northwest-Southeast, 1000 feet above ground, 1 mile (USGS, 1974b)

D Northwest-Southeast, 1000 feet above ground, 1 mile (USGS, 1974a)

E Northwest-Southeast, 5000 feet above sea level, 1½ mile (Virginia Division of Mineral Resources, 1962)

F Northwest-Southeast, 5000 feet above sea level, 3 mile (Virgina Division of Mineral Resources, 1972)

G East-West, 500 feet above ground, ½ mile (Virginia Division of Mineral Resources, 1972)

H East-West, 500 feet above ground, ½ mile (Virginia Division of Mineral Resources, 1966)

I East-West, 500 feet above ground, ½ mile (Virginia Division of Mineral Resources, 1970)

J East-West, 500 feet above ground, ½ mile (Virginia Division of Mineral Resources, 1969)

K East-West, 400 feet above ground, ½ mile (USGS, 1971a, b, c)

L East-West, 500 feet above ground, ½ mile (Virginia Division of Mineral Resources, 1971)

M East-West, 500 feet above ground, ½ mile (USGS, unpublished data)

N East-West, 500 feet above ground, ½ mile (Bromery and others, 1963a, b)

O East-West, 500 feet above ground, ½ mile (Neuschel, 1970)

P East-West, 500 feet above ground, 2 mile (USGS, 1972)

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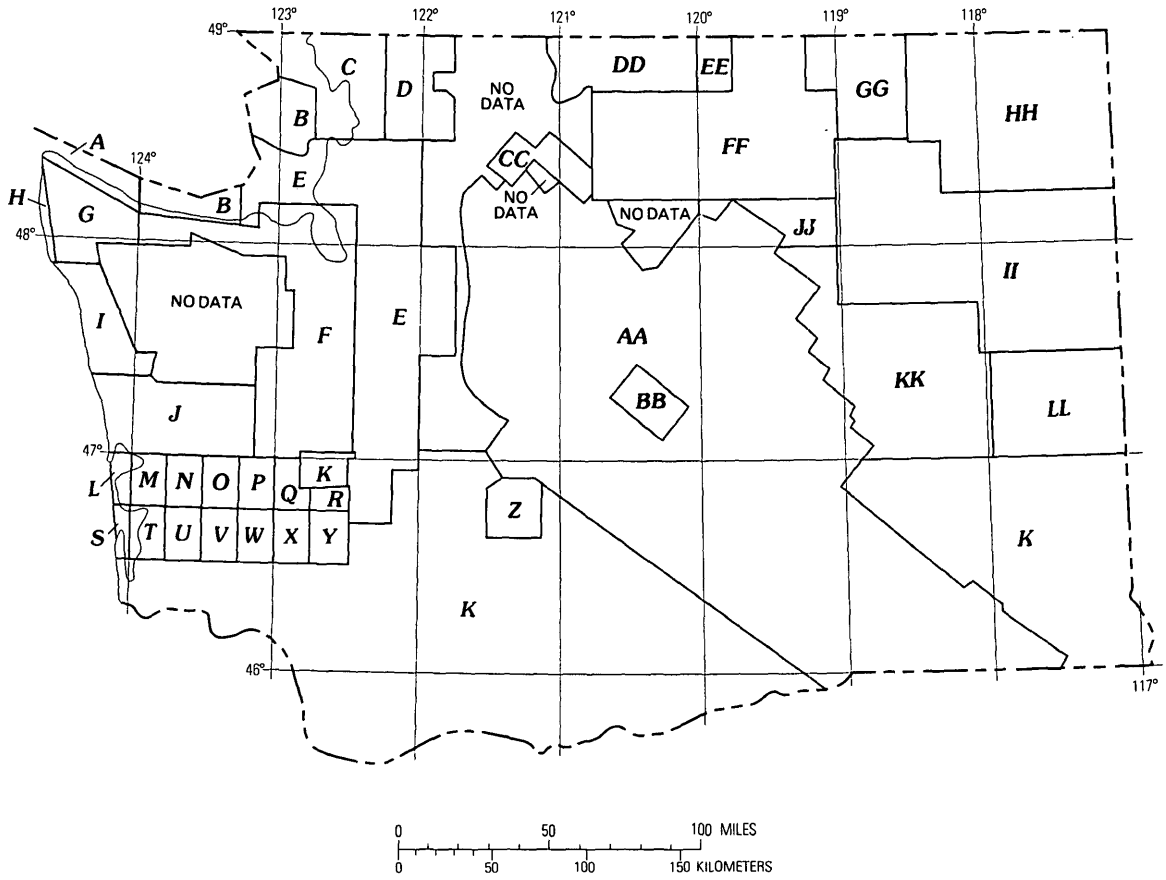

SPECIFICATIONS

A North-South, 300 meters above sea level, 1.2 kilometers (Geological Survey of Canada, 1979a)
B North-South, 300 meters above sea level, 1.2 kilometers (Geological Survey of Canada, 1979b)
C East-West, 3000 feet barometric, 2 mile (USGS, 1978)
D East-West, 7000 feet barometric, 1 mile (Thompson, 1973)
E North-South, 3000 feet barometric, 2 mile (USGS, 1977a)
F North-South, 3000 feet barometric, 1 mile (USGS, 1974a)
G North-South, 4200 feet above sea level, 2 mile (USGS, 1980d)
H East-West, 500 feet above sea level, 2 mile (USGS, 1980a)
I East-West, 2500 feet above sea level, 2 mile (USGS, 1980c)
J East-West, 2500 feet above sea level, 2 mile (USGS, 1980b)
K East-West, 15,000 feet barometric, 5 mile (Zietz and others, 1971)
L East-West, 1000 feet above ground, 0.5 mile (Henderson and others, 1958h)
M East-West, 1000 feet above ground, 0.5 mile (Henderson and others, 1958d)
N East-West, 1000 feet above ground, 0.5 mile (Henderson and others, 1958j)
O East-West, 1000 feet above ground, 0.5 mile (Henderson and others, 1958i)
P East-West, 1000 feet above ground, 0.5 mile (Henderson and others, 1958l)
Q East-West, 1000 feet above ground, 0.5 mile (Henderson and others, 1958c)
R East-West, 1000 feet above ground, 0.5 mile (Henderson and others, 1958a)
S East-West, 1000 feet above ground, 0.5 mile (Henderson and others, 1958f)
T East-West, 1000 feet above ground, 0.5 mile (Henderson and others, 1958m)
U East-West, 1000 feet above ground, 0.5 mile (Henderson and others, 1958n)
V East-West, 1000 feet above ground, 0.5 mile (Henderson and others, 1958k)
W East-West, 1000 feet above ground, 0.5 mile (Henderson and others, 1958e)
X East-West, 1000 feet above ground, 0.5 mile (Henderson and others, 1958g)
Y East-West, 1000 feet above ground, 0.5 mile (Henderson and others, 1958b)
Z North-South, 8000 feet barometric, 1 mile (Simmons and others, 1974)
AA Northeast-Southwest, 1000 feet above mean terrain, 0.5 mile (United Engineers and Constructors, Inc., 1978)
BB Northeast-Southwest, 1500 feet above mean terrain, 0.5 mile (United Engineers and Constructors, Inc., 1978)
CC Northeast-Southwest, 1000 feet terrain clearance, 1 mile (USGS, 1979)
DD East-West, 10,000 feet barometric, 1 mile (Staatz and others, 1971)
EE East-West, 10,000 feet barometric, 1 mile (USGS, 1976)
FF East-West, 9500 feet barometric, 1 mile (USGS, 1977b)
GG East-West, 500 feet above ground, 0.25 mile (Hunting Geophysical Services, Inc., 1960)
HH East-West, 7000 feet barometric, 2 mile (USGS, 1973)
II East-West, 7000 feet barometric, 1 mile (USGS, 1974b)
JJ East-West, 400 feet above ground, 3 mile (LKB Resources, Inc., 1979)
KK East-West, 400 feet above ground, 3 mile (Texas Instruments, Inc., 1979)
LL East-West, 400 feet above ground, 3 mile (LKB Resources, Inc., 1978)

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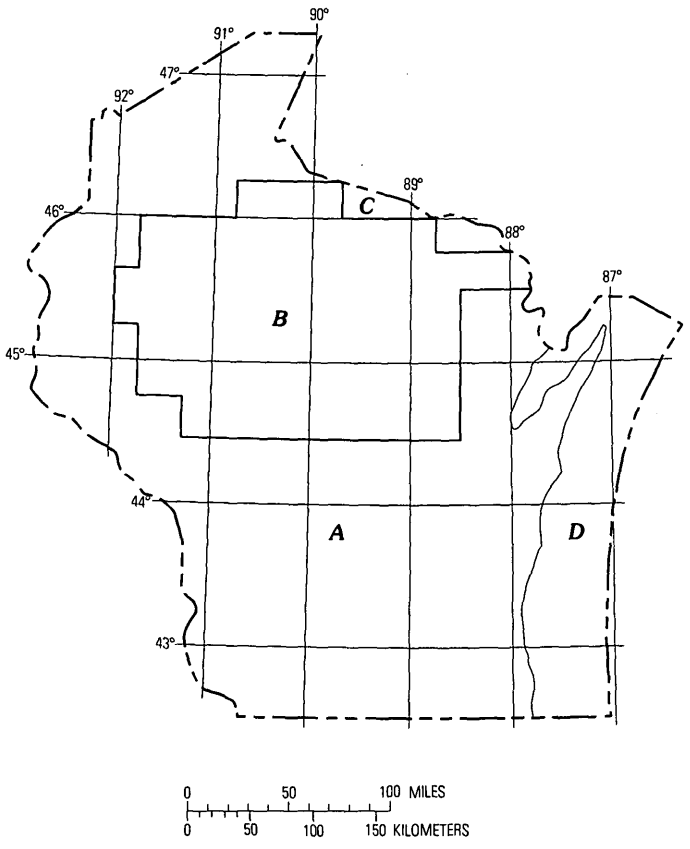

SPECIFICATIONS

A North-South, 3000 feet above sea level, 6 mile (Patenaude, 1966)

B North-South, 500 feet above ground, ½ mile (Zietz and others, 1977)

C North-South, 500 feet above ground, ½ mile (unpublished data)

D Northwest-Southeast (southern half) Northeast-Southwest (northern half), 3000 feet barometric, 6 mile (Hinze and and O'Hara, 1966)

SOURCES OF DATA

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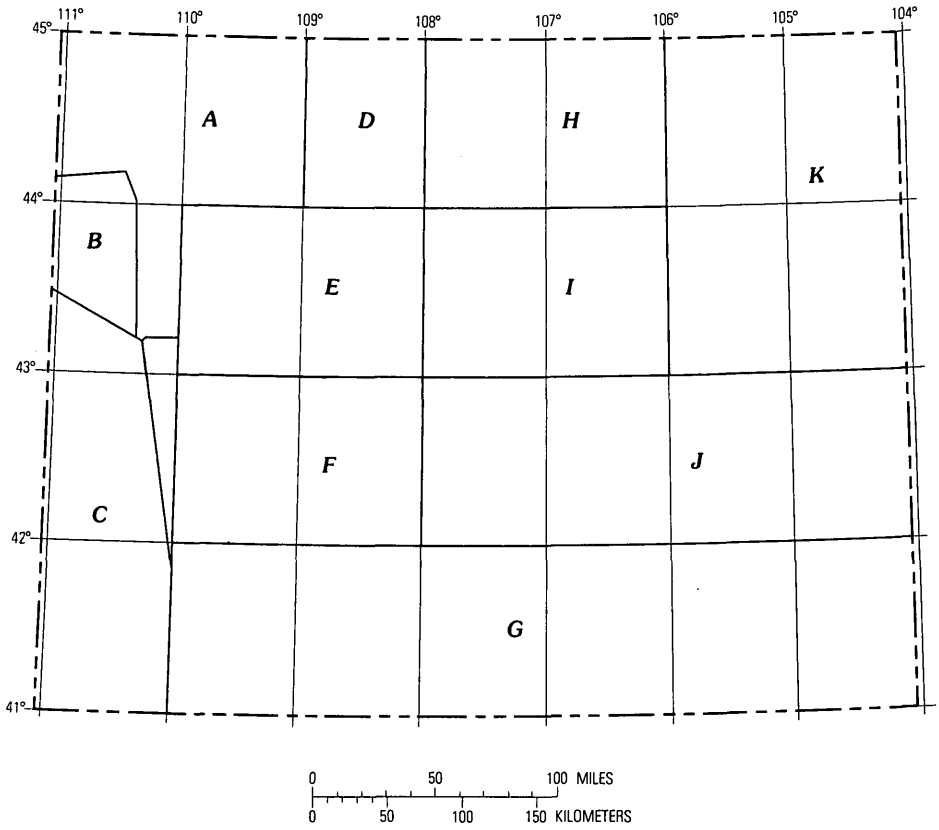

SPECIFICATIONS

- ***A*** East-West,12,000 feet barometric, 1 mile (USGS, 1973)
- ***B*** North-South, 3700 meters barometric, 1.6 kilometers (Behrendt and others, 1968)
- ***C*** Unpublished data
- ***D*** East-West, 1000 feet above ground, 3 mile (Balsley and others, 1948)
- ***E*** East-West, 400 feet above ground, 3 mile (Geodata, 1980c)
- ***F*** East-West, 400 feet above ground, 3 mile (Geodata, 1980a)
- ***G*** East-West, 400 feet above ground, 3 mile (EG&G GeoMetrics, 1979a)
- ***H*** East-West, 400 feet above ground, 3 mile (EG&G GeoMetrics, 1979c)
- ***I*** East-West, 400 feet above ground, 6 mile (Geodata, 1980b)
- ***J*** East-West, 400 feet above ground, 2 mile (EG&G GeoMetrics, 1979d)
- ***K*** East-West, 400 feet above ground, 3 mile (EG&G GeoMetrics, 1979b)

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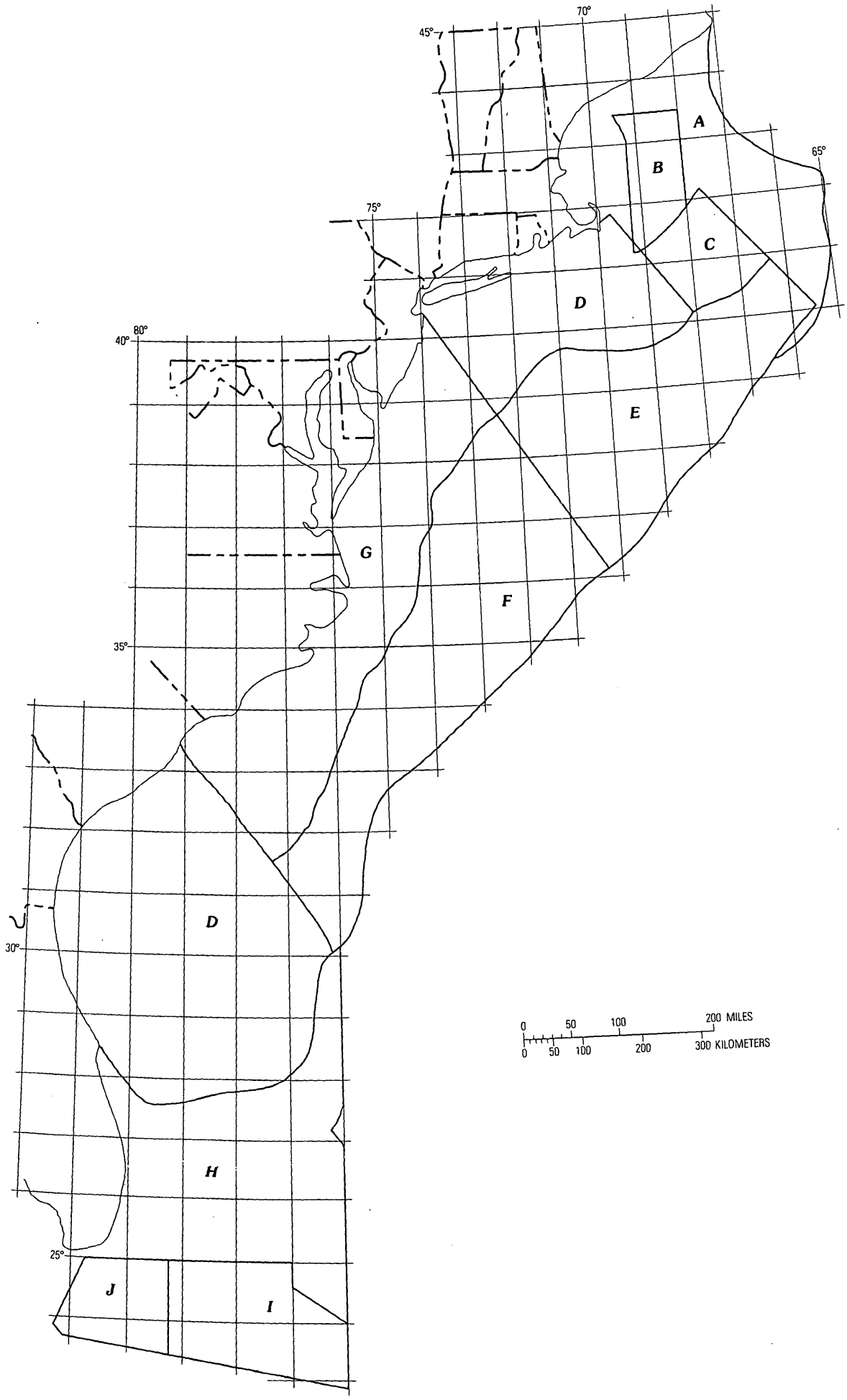
70°
45°
A
B
65°
75°
C
D
80°
40°
E
G
F
35°
D
30°
0 50 100 200 MILES
0 50 100 200 300 KILOMETERS
H
25°
J
I

SPECIFICATIONS

A Northwest-Southeast, 150 meters above sea level, 8 kilometers (Taylor and others, 1968)
B North-South, 2500 feet barometric, 1.25 mile (USGS, 1979)
C Northwest-Southeast, 310 meters above sea level, 2.4 kilometers (Klitgord and Behrendt, 1977)
D Northwest-Southeast, 460 meters above sea level, 3.2 kilometers (Klitgord and Behrendt, 1977)
E Northwest-Southeast, 460 meters above sea level, 32 kilometers (Klitgord and Behrendt, 1977)
F Northwest-Southeast, 460 meters above sea level, 9.7 kilometers (Klitgord and Behrendt, 1977)
G Northwest-Southeast, 460 meters above sea level, 4.8 kilometers (Klitgord and Behrendt, 1977)
H Northwest-Southeast, 500 feet above sea level, 5 nautical miles (US Naval Oceanographic Office, 1972)
I Northeast-Southwest, 1500 feet above sea level, 5 nautical miles (US Naval Oceanographic Office, 1972)
J East-West and North-South, sea level, 10 nautical miles (US Naval Oceanographic Office, 1972)

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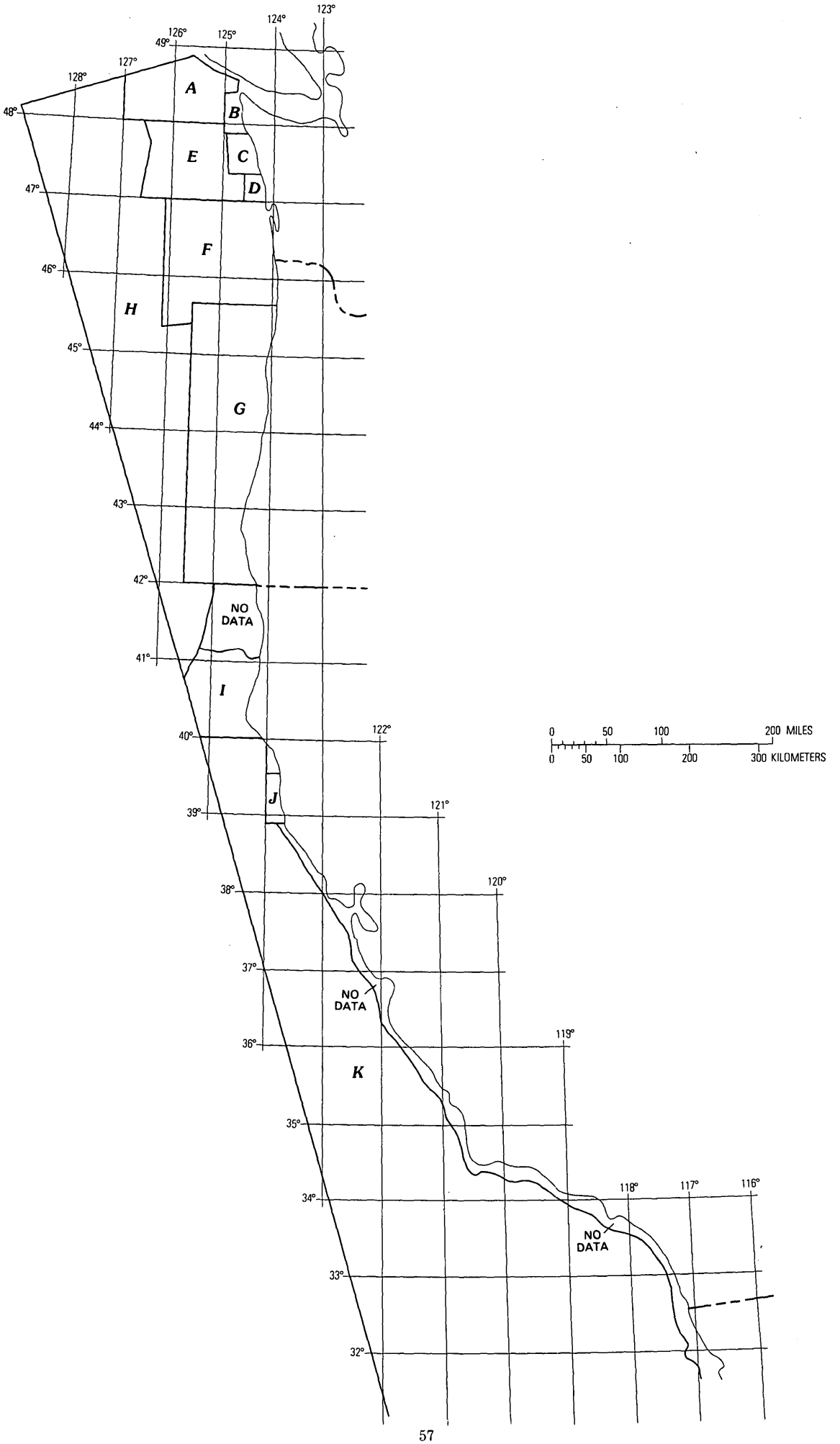
123°
124°
126°
125°
49°
127°
128°
A
B
48°
E
C
D
47°
F
46°
H
45°
G
44°
43°
42°
NO DATA
41°
I
122°
40°
J
121°
39°
120°
38°
37°
NO DATA
119°
36°
K
35°
118°
117°
116°
34°
NO DATA
33°
32°
0 50 100 200 MILES
0 50 100 200 300 KILOMETERS

SPECIFICATIONS

A Unkown, sea level, 5–10 kilometers (Tiffin and Currie, 1976)
B East-West, 500 feet above sea level, 2 mile (USGS, 1980a)
C East-West, 2500 feet above sea level, 2 mile (USGS, 1980c)
D East-West, 2500 feet above sea level, 2 mile (USGS, 1980b)
E East-West, sea level, 10 nautical miles (Couch and others, 1978)
F East-West, 15,000 feet barometric, 5 mile (Zietz and others, 1971)
G East-West, 500 feet above sea level, 2 mile (Lockwood, Kessler, and Bartlett, Inc., [1968?])
H East-West, sea level, 5 nautical miles (Raff and Mason, 1961)
I Northeast-Southwest, 2900 meters barometric, 8 kilometers (unpublished data)
J Specifications unknown (Affleck, 1962)
K East-West, sea level, 5–15 nautical miles (Theberge, 1971)

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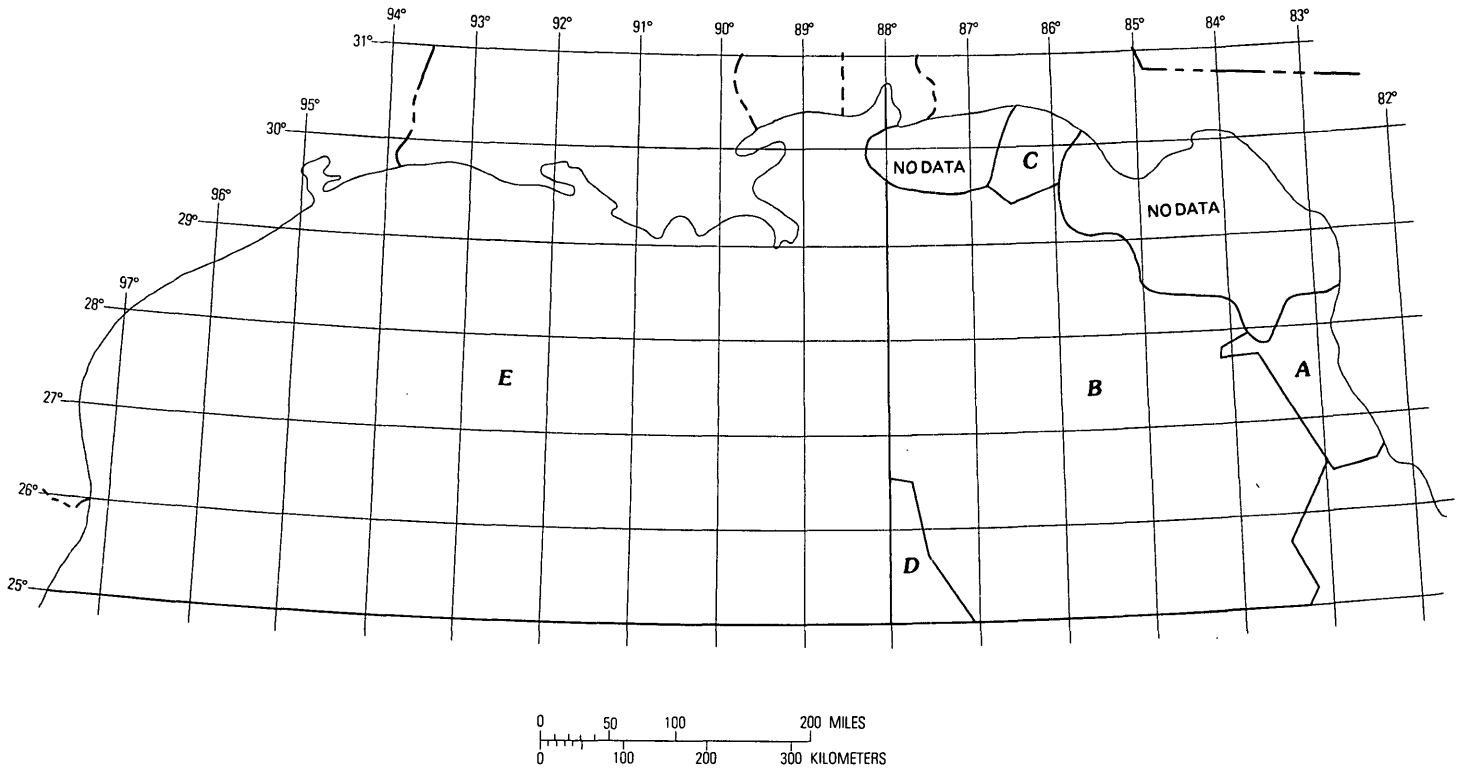

SPECIFICATIONS

A Northeast-Southwest, 1000 feet above sea level, 5 nautical miles (U.S. Naval Oceanographic Office, 1972)

B East-West, sea level, 15 nautical miles (U.S. Naval Oceanographic Office, 1972)

C North-South and East-West, 20,000 feet above sea level, 2 nautical miles (U.S. Naval Oceanographic Office, 1972)

D East-West, sea level, 10 nautical miles (U.S. Naval Oceanographic Office, 1972)

E Specifications unknown (unpublished data)

SOURCES OF DATA

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