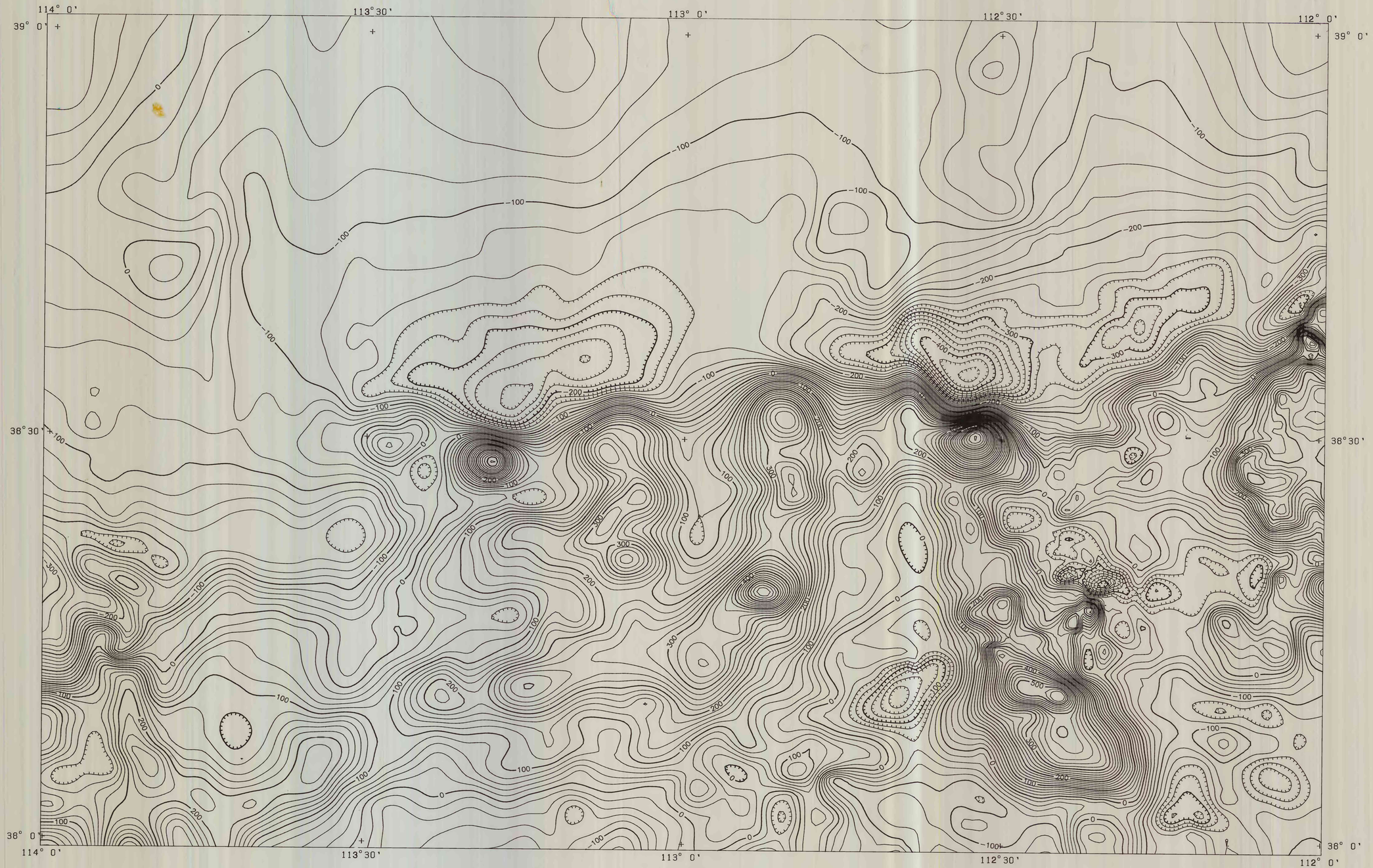
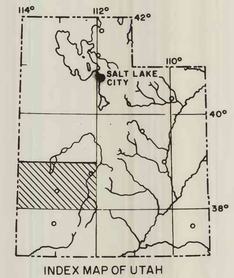
DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

OPEN-FILE REPORT
90-228

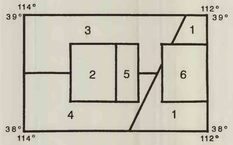




INDEX MAP OF UTAH

Discussion

The purpose of this map is to present an aeromagnetic map of the Richfield 1^{o} x 2^{o} area, which represents all of the data as being flown at 12,000 feet barometric elevation. The map was created by using advanced processing techniques and USGS standard filtering programs.



Sources of Magnetic Data

1. Eppich and others (1972)
   Flown at 12,000 feet barometric, 2 to 4 mile spacing, N-S
   Processing Information:
   Original data was digitized and used unmodified.

2. San Francisco Mountains and vicinity, USGS (1966)
   Flown at 9,000 feet barometric, 1 mile spacing, E-W
   Processing Information:
   Original data was digitized, IGRF removed, and upward continued to 12,000 feet barometric.

3. Parts of Delta and Richfield, USGS (1972)
   Flown at 9,000 feet barometric, 2 mile spacing, N-S
   Processing Information:
   Original data was digitized and upward continued to 12,000 feet barometric.

4. Parts of Richfield and Cedar City, USGS (1972)
   Flown at 9,000 feet barometric, 2 mile spacing, N-S
   Processing Information:
   Original data was digitized and upward continued to 12,000 feet barometric.

5. Adamsville and Minersville, USGS (1979)
   Flown at 9,000 feet barometric, 2 mile spacing, N-S
   Processing Information:
   Original data was digitized and upward continued to 12,000 feet barometric.

6. Richfield Area, USGS (1979)
   Flown at 1,000 feet above ground, 1/2 mile spacing, N-S
   Processing Information:
   The original data was continued to a 12,000 foot barometric elevation.
   Note: Because of the high topographic relief in this area, some of the data has been continued through the source.

References

1. Eppich, G. K., Shuey, R. T., and Schellinger, D. K., 1972, Aeromagnetic map of south-central Utah: Department of Geological and Geophysical Sciences, University of Utah.

2. U.S. Geological Survey, 1966, Aeromagnetic map of the San Francisco Mountains and vicinity, southwestern Utah: U.S. Geological Survey GP Map 598.

3. U.S. Geological Survey, 1972, Aeromagnetic map of parts of the Delta and Richfield 1^{o} x 2^{o} quadrangles, Utah: U.S. Geological Survey Open-File Map.

4. U.S. Geological Survey, 1972, Aeromagnetic map of parts of the Richfield and Cedar City 1^{o} x 2^{o} quadrangles, Utah: U.S. Geological Survey Open-File Map.

5. U.S. Geological Survey, 1979, Aeromagnetic map of the Adamsville and Minersville area, Utah: U.S. Geological Survey Open-File Map 79-1648.

6. U.S. Geological Survey, 1979, Aeromagnetic map of the Richfield area, Utah: U.S. Geological Survey Open-File Map 79-1367.

SCALE 1:250 000

5 0 5 10 15 20 25 MILES

5 0 5 10 15 20 25 KILOMETERS

CONTOUR INTERVAL 20 GAMMAS

TRANSVERSE MERCATOR PROJECTION

IGRF REMOVED

EXPLANATION

Magnetic contours showing total intensity magnetic field of the earth in gammas relative to arbitrary datum

Hachured to indicate closed areas of lower magnetic intensity; dashed where data are incomplete.

This map is preliminary and has not been reviewed for conformity with U.S. Geological Survey editorial standards.

COMPOSITE AEROMAGNETIC MAP OF THE RICHFIELD 1° X 2° QUADRANGLE, UTAH

BY

JOSEPH L. PLESHA

1990