



Composite residual total intensity aeromagnetic map of the Socorro region, New Mexico

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1983, pp. 97. <https://doi.org/10.56577/FFC-34.97>

in:

Socorro Region II, Chapin, C. E.; Callender, J. F.; [eds.], New Mexico Geological Society 34th Annual Fall Field Conference Guidebook, 344 p. <https://doi.org/10.56577/FFC-34>

This is one of many related papers that were included in the 1983 NMGS Fall Field Conference Guidebook.

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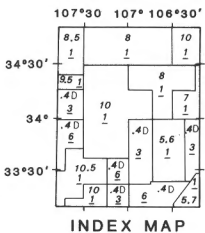
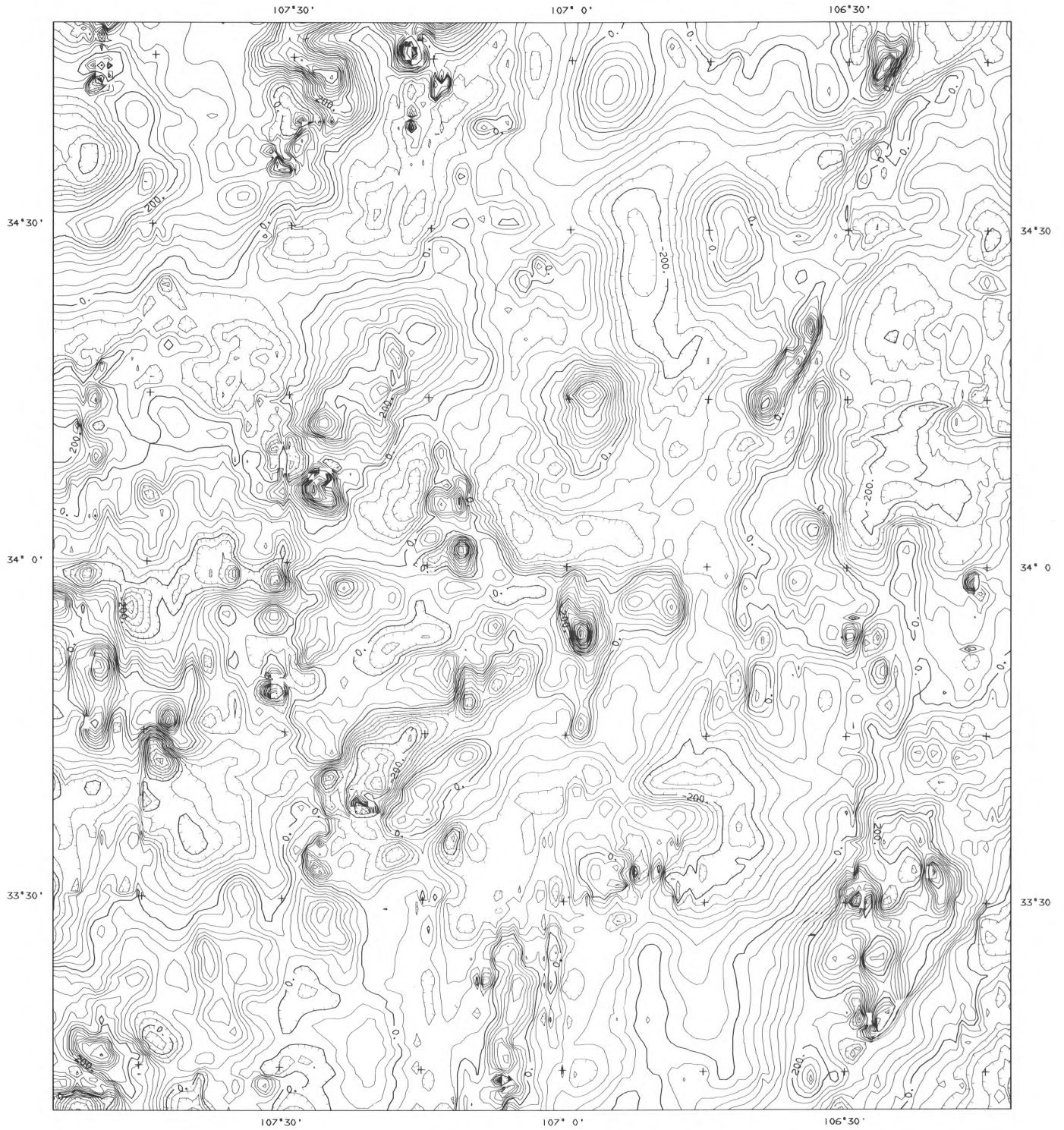
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KEY TO INDEX MAP

- 8.5 Flight elevation of constant-elevation surveys, in kilofeet above sea level.
- .40 Terrain clearance of draped surveys, in kilofeet.
- ! Flight-line spacing, in miles.

CONTOUR INTERVAL = 25 GAMMAS

10 0 10 20 30
KILOMETERS

Data from digital data set used to compile New Mexico State composite aeromagnetic map. Total magnetic intensity data from each of the 18 individual surveys (see index map) were reduced to a residual anomaly field by removing the Geomagnetic Reference Field (DGRF) appropriate for the time the survey was flown. Discontinuities at project boundaries were smoothed by computer, using bicubic-spline interpolation functions. Project boundaries will still be visible, however, as an inevitable consequence of variable flight elevation and other survey specifications. A more complete description of procedures used is given by Cordell, Lindrith, 1983, Composite aeromagnetic map of New Mexico, in Geothermal Resources of New Mexico: Scientific Map Series: National Oceanic and Atmospheric Administration, in press.

BY LINDRITH CORDELL
U.S. GEOLOGICAL SURVEY

**COMPOSITE RESIDUAL TOTAL INTENSITY AEROMAGNETIC
MAP OF THE SOCORRO REGION, NEW MEXICO**