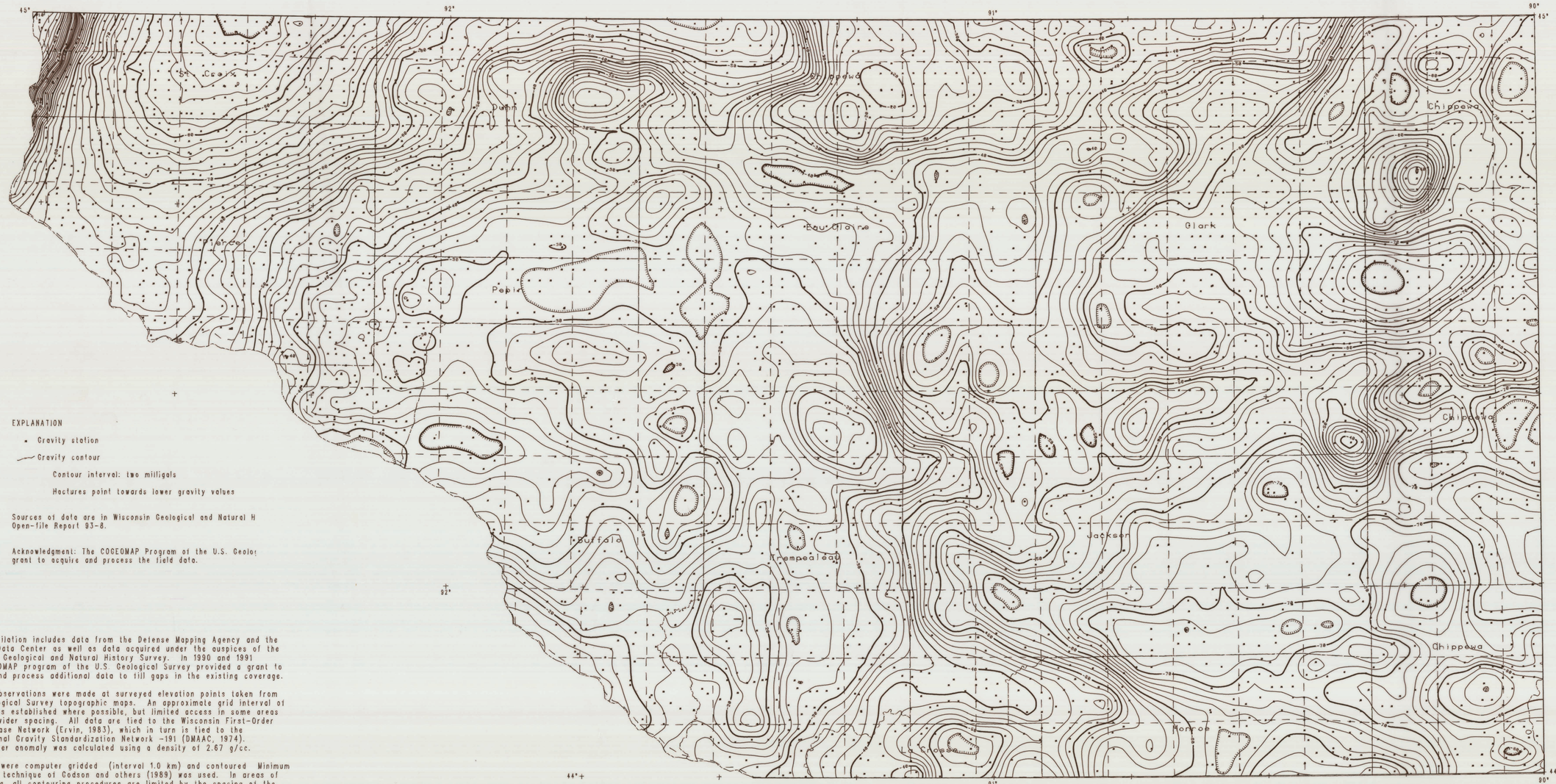
SIMPLE BOUGUER GRAVITY MAP
WEST-CENTRAL WISCONSIN SHEET

Compiled by C.Patrick Ervin, M.E. Thompson, M.G. Mudrey, Jr.,
M.L. Czechanski, and B.A. Brown.

1993



EXPLANATION

- Gravity station
- Gravity contour

Contour interval: two milligals

Hactures point towards lower gravity values

Sources of data are in Wisconsin Geological and Natural H
Open-file Report 93-8.

Acknowledgment: The COGEOMAP Program of the U.S. Geolo
grant to acquire and process the field data.

This compilation includes data from the Defense Mapping Agency and the National Data Center as well as data acquired under the auspices of the Wisconsin Geological and Natural History Survey. In 1990 and 1991 the COGEOMAP program of the U.S. Geological Survey provided a grant to acquire and process additional data to fill gaps in the existing coverage.

Gravity observations were made at surveyed elevation points taken from U.S. Geological Survey topographic maps. An approximate grid interval of 1.6 km was established where possible, but limited access in some areas required wider spacing. All data are tied to the Wisconsin First-Order Gravity Base Network (Ervin, 1983), which in turn is tied to the international Gravity Standardization Network -191 (DMAAC, 1974). The Bouguer anomaly was calculated using a density of 2.67 g/cc.

The data were computer gridded (interval 1.0 km) and contoured Minimum curvature technique of Godson and others (1989) was used. In areas of dense data, all contouring procedures are limited by the spacing of the grid nodes. Interested users are encouraged to purchase the digital data in Wisconsin Geological and Natural History Survey Open-file Report 93-08.

References:

Ervin, C.P., 1983, Wisconsin gravity base station network: Wisconsin Geological and Natural History Survey Miscellaneous Paper 83-1, 43 p.

Ervin, C.P., 1993, Principal facts for gravity stations in the Wisconsin West-central 1 by 2 degree map sheet: Wisconsin Geological and Natural History Survey Open-file Report 9308, one compute diskette.

Godson, R.N, and Mall, M. R., 1989, Potential-field geophysical programs for IBM-compatible microcomputers, version 1.0: U.S. Geological Survey Open-File Report 89-197, 23 p.

DMAAC, 1974, World relative gravity reference network North America: DMAAC Reference Publications 25 and 1974 supplement.

Authors:

Ervin, Thompson, Mudrey, Czechanski, Brown

LOCATION OF WEST-CENTRAL SHEET

MILES
5 0 5

KILOMETERS
5 0 5

1:250,000

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