

Base by U.S. Geological Survey, 1983

NOVEMBER-DECEMBER SURVEY, YEAR 1980-1981

EXPLANATION

**MAGNETIC TOTAL INTENSITY**  
Red lines indicate the total intensity of the Earth's magnetic field in units of thousands of nanotesla (30 = 30,000 nanotesla = 30,000 gammas). The symbol x indicates a local minimum or maximum.

**ANNUAL CHANGE IN MAGNETIC TOTAL INTENSITY**  
Blue lines indicate the estimated rate of change in the total intensity of the Earth's magnetic field in units of nanotesla per year (1 nanotesla = 1 gamma). Negative values denote decreasing intensity. The symbol x indicates a local minimum or maximum.

0 1000 2000 3000 Nautical Miles

0 1000 2000 3000 Statute Miles

0 1000 2000 3000 Kilometers

Van der Grinten projection

Boundary and names representation are not necessarily authoritative

THE MAGNETIC FIELD OF THE EARTH, 1980

MAGNETIC TOTAL INTENSITY

Compiled by  
E. B. Fabiano, N. W. Peddie, and A. K. Zunde  
1983

NOTE

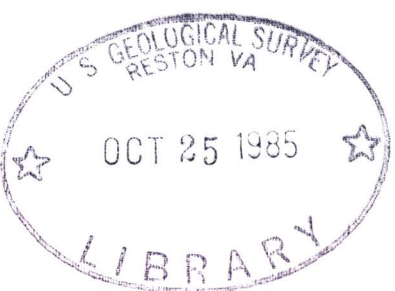
This map is one of a series of five World maps showing contours of various elements of the Earth's magnetic field at sea level. The series consists of declination, inclination, horizontal intensity, vertical intensity, and total intensity, all for the year 1980. The information on the Earth's magnetic field was derived from IGRF 1980, the International Geomagnetic Reference Field for 1980, a mathematical model consisting of solid internal spherical harmonics up to the tenth degree and order.

ACKNOWLEDGMENTS

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REFERENCES

Fabiano, E. B., Peddie, N. W., Barracough, D. R., and Zunde, A. K., 1983, International geomagnetic reference field 1980—Charts and grid values (IAGA Bulletin No. 47); U.S. Geological Survey Circular 873, 142 p.  
International Association of Geomagnetism and Aeronomy Division 1, Working Group 1, 1981, International geomagnetic reference fields; DGRF 1965, DGRF 1970, DGRF 1975, IGRF 1980; EOS (American Geophysical Union Transactions), v. 62, no. 48, p. 1169.



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