

Base by U.S. Geological Survey, 1983

EXPLANATION

MAGNETIC DECLINATION
Red lines indicate the value of the declination of the Earth's magnetic field in units of degrees. The symbol x indicates a local minimum or maximum. The labels E and W refer to east and west declination respectively.

ANNUAL CHANGE IN MAGNETIC DECLINATION
Blue lines indicate the estimated rate of change in units of minutes of arc per year. The symbol x indicates a local minimum or maximum. The following procedure should be followed when applying the annual change of the magnetic declination. If the annual change is of the same direction (west or east) as the declination it should be added and the declination is increasing. If the annual change is opposite in direction to the declination it should be subtracted and the declination is decreasing.

1000 800 600 400 200 0 1000 2000 3000 Nautical Miles

1000 800 600 400 200 0 1000 2000 3000 Statute Miles

Van der Grinten projection

Boundary and names representation are not necessarily authoritative

THE MAGNETIC FIELD OF THE EARTH, 1980

MAGNETIC DECLINATION

Compiled by
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1983

NOTE

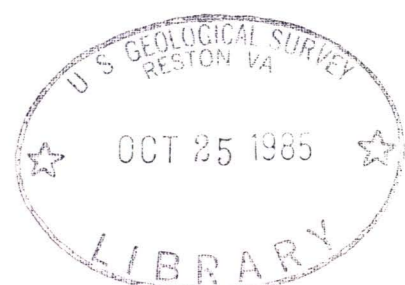
This map is one of a series of five World maps showing contours of various elements of the Earth's magnetic field at sea level. The series consists of declination, inclination, horizontal intensity, vertical intensity, and total intensity, all for the year 1980. The information on the Earth's magnetic 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. 49, p. 1189.



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