ISO Geodetic Registry

Item class Ellipsoid

Name **WGS 84**

Item status **VALID** Identifier 30

Alias **WGS84**

Information source

Semi-major axis

Information source Title Department of Defense World Geodetic System

1984: Its Definition and Relationships with Local

Geodetic Systems, Version 1.0.0

National Geospatial-Intelligence Agency Author Publisher National Geospatial-Intelligence Agency

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Series/Journal name Standardization Document Issue identification NGA.STND.0036_1.0.0_WGS84 Title World Geodetic System 1984

Author

L.B. Decker, Defense Mapping Agency

Aerospace Center

Publisher Defense Mapping Agency Aerospace Center

Publication date 1986-04

Edition date

Title Refinements to The World Geodetic System 1984 Information source

S. Malys, J.A. Slater, R.W. Smith, L.E. Kunz, S.C. **Author**

Publisher Institute of Navigation

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Series/Journal name Proceedings of the 10th International Technical

Meeting of the Satellite Division of The Institue of Navigation (ION-GPS-1997), Kansas City, MO,

September 1997

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The World Geodetic System 1984 (WGS 84) contains four defining Remarks

> physical parameters for the Earth: the semi-major axis (a), the reciprocal of flattening (1/f) of an oblate spheroid of revolution, the geocentric gravitational constant (GM = 3.986004418e14 m^3/s^2) includes the mass of the atmosphere, and the Earth's angular rotational

velocity about its spin axis (omega = 7.2921150e-5 rad/s).

6378137.0 m

Inverse flattening 298.2572236 m