## ISO Geodetic Registry

Item class GeodeticDatum

Name World Geodetic System 1984 (G873)

Item status **VALID** Identifier 135

Alias WGS 84 (G873)

Information source Title Refinements to The World Geodetic System 1984

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

Kenyon

Publisher Institute of Navigation

1997-09 Publication date

Edition date

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

Page 841-850

Information source Title Department of Defense World Geodetic System

1984: Its Definition and Relationships with Local

Geodetic Systems

National Imagery and Mapping Agency Author Publisher National Imagery and Mapping Agency

2000-01-03 Publication date

**Edition** Third Edition, Amendment 1

Edition date 2000-01-03 Series/Journal name Technical Report

Issue identification TR8350.2

Department of Defense World Geodetic System Information source Title

1984: Its Definition and Relationships with Local

Geodetic Systems

**Author** National Imagery and Mapping Agency Publisher National Imagery and Mapping Agency

Publication date 1997-07-04 Edition Third Edition Edition date 1997-07-04 Series/Journal name Technical Report

Issue identification TR8350.2

Department of Defense World Geodetic System Information source Title

1984: Its Definition and Relationships with Local

Geodetic Systems

**Author** National Imagery and Mapping Agency Publisher National Imagery and Mapping Agency

Publication date 2004-06-23

Edition Third Edition, Amendment 2

Edition date 2004-06-23 Series/Journal name Technical Report Issue identification TR8350.2

Data source ISO Geodetic Registry

Replaces World Geodetic System 1984 (G730) from 1997-01-29. Remarks

Replaced by World Geodetic System 1984 (G1150) from 2002-01-20. Used in broadcast ephemeris from 1997-01-29 to 2002-01-19 and in

precise ephemeris from 1996-09-29 to 2002-01-19.

Anchor definition Defined through coordinates of 13 GPS tracking stations adjusted to

> a subset of ITRF94 stations at epoch 1997.0. The reference epoch for the adjustment was 1994.0 and the station coordinates were propagated to 1997.0 using the NNR-NUVEL-1A plate motion model.

1997-01-29 Release date

Coordinate Reference Epoch 1997.0

Scope Spatial Referencing and GPS satellite navigation

Ellipsoid WGS 84
Prime Meridian Greenwich

## Extent

Description	World.	
Geographic Bounding Box	West-bound longitude	-180.0
	North-bound latitude	90.0
	East-bound longitude	180.0
	South-bound latitude	-90.0

## ISO Geodetic Registry

Item class Ellipsoid

Name WGS 84

Item statusVALIDIdentifier30

Alias WGS84

Information source Title Department of Defense World Geodetic System

1984: Its Definition and Relationships with Local

Geodetic Systems, Version 1.0.0

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

Publication date 2014-07-08

Series/Journal name Standardization Document
Issue identification NGA.STND.0036\_1.0.0\_WGS84

Information source 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

Information source Title Refinements to The World Geodetic System 1984

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

Kenyon

Publisher Institute of Navigation

Publication date 1997-09

Edition date

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

Page 841-850

Data source ISO Geodetic Registry

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

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).

Semi-major axis 6378137.0 m

Inverse flattening 298.2572236 m

## **ISO Geodetic Registry**

Item class PrimeMeridian

Name Greenwich

Item status VALID
Identifier 25

Alias Zero meridian

Information source Title Why the Greenwich meridian moved

Author S. Malys, J.H. Seago, N.K. Pavlis, P.K.

Seidelmann, G.H. Kaplan

Publisher Springer International Publishing

Publication date 2015-12

Series/Journal name Journal of Geodesy Issue identification Volume 89, No. 12

Page 1263–1272

Information source Title IERS Conventions (2010)

Author G. Petit, B.J. Luzum (eds)

Publisher Verlag des Bundesamts fur Kartographie und

Geodasie

Publication date 2010

Edition date

Series/Journal name IERS Technical Notes

Issue identification 36.0

Other citation details ISSN: 1019-4568

Data source ISO Geodetic Registry

Greenwich longitude 0.0 °