## **ISO Geodetic Registry**

Item class GeodeticDatum

Name World Geodetic System 1984 (G730)

Item status VALID
Identifier 116

Alias WGS 84 (G730)

Information source Title Maintenance and Enhancement of the World

Geodetic System 1984

Author S. Malys, J.A. Slater Publisher Institute of Navigation

Publication date 1994-09

Edition date

Series/Journal name Proceedings of the 7th International Technical

Meeting of the Satellite Division of The Institue of Navigation (ION-GPS-1994), Salt Lake City, UT,

September 1994

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Data source ISO Geodetic Registry

Remarks Replaces the original Transit-derived World Geodetic System 1984

from 1994-06-29. Replaced by World Geodetic System 1984 (G873) from 1997-01-29. Used in broadcast ephemeris from 1994-06-29 to 1997-01-28 and in precise ephemeris from 1994-01-02 to 1996-09-28.

Anchor definition Defined through coordinates of 10 GPS tracking stations adjusted to

a subset of ITRF92 stations at epoch 1994.0. The reference epoch for ITRF92 is 1988.0; the station coordinates were propagated to 1994.0

using the NNR-NUVEL-1 plate motion model.

Release date 1994-06-29 Coordinate Reference Epoch 1994.0

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

Information source

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
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

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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 °