ISO Geodetic Registry

Item class GeodeticDatum

Name World Geodetic System 1984 TRANSIT

Item statusVALIDIdentifier156AliasWGS84AliasWGS 84

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 Department of Defense World Geodetic System

1984: Its Definition and Relationships with Local

Geodetic Systems

Author Defense Mapping Agency
Publisher Defense Mapping Agency

Publication date 1987-09-30
Edition date 1987-09-30
Series/Journal name Technical Report

Issue identification TR8350.2

Information source Title Department of Defense World Geodetic System

1984: Its Definition and Relationships with Local

Geodetic Systems

Author Defense Mapping Agency
Publisher Defense Mapping Agency

Publication date1991-09-01EditionSecond EditionEdition date1991-09-01Series/Journal nameTechnical Report

Issue identification TR8350.2

Data source ISO Geodetic Registry

Remarks Replaced by WGS 84 (G730) 1994-01-02.

Anchor definition The origin, scale and orientation of WGS 84 are nominally defined

to be that for the BIH Terrestrial System 1984 (BTS84) with origin at the geocentre. Stations in the Doppler reference frame NWL 9D were brought into alignment with BTS 84 using an internationally adopted

transformation.

Release date 1987-01-01

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 status VALID Identifier 30

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.

Kenyor

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 m³/s²) 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 °