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
	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
Information source	*Title*	Department of Defense World Geodetic System 1984: Its Definition and Relationships with Local Geodetic Systems
	Author	National Imagery and Mapping Agency
	Publisher	National Imagery and Mapping Agency
	Publication date	2000-01-03
	Edition	Third Edition, Amendment 1
	Edition date	2000-01-03
	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	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
Information source	*Title*	Department of Defense World Geodetic System 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	
Remarks	Replaces World Geodetic System 1984 (G730) from 1997-01-29. 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.	
Release date	1997-01-29	

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 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. 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 °	