ISO Geodetic Registry

Item class	GeodeticDatum	
Name	**World Geodetic System 1984 (G1674)**	
Item status	VALID	
Identifier	196	
Alias	WGS 84 (G1674)	
Information source	*Title*	Recent Updates to the WGS 84 Reference Frame
	Author	R.F. Wong, C.M. Rollins, C.F. Minter
	Publisher	Institute of Navigation
	Publication date	2012-09
	Edition date	
	Series/Journal name	Proceedings of the 25th International Technical Meeting of the Satellite Division of The Institue of Navigation (ION-GNSS-2012), Nashville, TN, September 2012
	Page	1164-1172
Information source	*Title*	Affirmation of Vertical Datum for Surveying and Mapping Activities for the Islands of Rota, Saipan and Tinian of the Commonwealth of the Northern Mariana Islands (CNMI)
	Author	US Government
	Publisher	Office of Federal Register, NARA
	Publication date	2009-01-22
	Edition date	2009-01-22
	Series/Journal name	Federal Register Notice
	Issue identification	Volume 74, No. 13, Document: E9-1180, Citation: 74 FR 3990
	Page	3990-3991
	Other citation details	Mandates use of NMVD03
Data source	ISO Geodetic Registry	
Remarks	Replaces World Geodetic System 1984 (G1150) from 2012-02-08. Replaced by World Geodetic System 1984 (G1762) from 2013-10-16. Used in broadcast ephemeris from 2012-02-08 to 2013-10-15 and in precise ephemeris from 2012-05-07 to 2013-10-15.	
Anchor definition	Defined through coordinates of 15 GPS tracking stations adjusted to a subset of IGS stations at epoch 2005.0. The IGS station coordinates are considered to be equivalent to ITRF2008.	
Release date	2012-02-08	
Coordinate Reference Epoch	2005.0	
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

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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	

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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 °	