

ISO Geodetic Registry

<i>Item class</i>	GeodeticDatum	
<i>Name</i>	World Geodetic System 1984 TRANSIT	
<i>Item status</i>	VALID	
<i>Identifier</i>	156	
<i>Alias</i>	WGS84	
<i>Alias</i>	WGS 84	
<i>Information source</i>	<i>Title</i>	World Geodetic System 1984
	<i>Author</i>	L.B. Decker, Defense Mapping Agency Aerospace Center
	<i>Publisher</i>	Defense Mapping Agency Aerospace Center
	<i>Publication date</i>	1986-04
	<i>Edition date</i>	
<i>Information source</i>	<i>Title</i>	Department of Defense World Geodetic System 1984: Its Definition and Relationships with Local Geodetic Systems
	<i>Author</i>	Defense Mapping Agency
	<i>Publisher</i>	Defense Mapping Agency
	<i>Publication date</i>	1987-09-30
	<i>Edition date</i>	1987-09-30
	<i>Series/Journal name</i>	Technical Report
	<i>Issue identification</i>	TR8350.2
<i>Information source</i>	<i>Title</i>	Department of Defense World Geodetic System 1984: Its Definition and Relationships with Local Geodetic Systems
	<i>Author</i>	Defense Mapping Agency
	<i>Publisher</i>	Defense Mapping Agency
	<i>Publication date</i>	1991-09-01
	<i>Edition</i>	Second Edition
	<i>Edition date</i>	1991-09-01
	<i>Series/Journal name</i>	Technical Report
	<i>Issue identification</i>	TR8350.2
<i>Data source</i>	ISO Geodetic Registry	
<i>Remarks</i>	Replaced by WGS 84 (G730) 1994-01-02.	
<i>Anchor definition</i>	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.	
<i>Release date</i>	1987-01-01	
<i>Scope</i>	Spatial Referencing and GPS satellite navigation	
<i>Ellipsoid</i>	WGS 84	
<i>Prime Meridian</i>	Greenwich	

Extent

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

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<i>Item class</i>	Ellipsoid
<i>Name</i>	WGS 84
<i>Item status</i>	VALID
<i>Identifier</i>	30
<i>Alias</i>	WGS84
<i>Information source</i>	<p><i>Title</i> Department of Defense World Geodetic System 1984: Its Definition and Relationships with Local Geodetic Systems, Version 1.0.0</p> <p><i>Author</i> National Geospatial-Intelligence Agency</p> <p><i>Publisher</i> National Geospatial-Intelligence Agency</p> <p><i>Publication date</i> 2014-07-08</p> <p><i>Series/Journal name</i> Standardization Document</p> <p><i>Issue identification</i> NGA.STND.0036_1.0.0_WGS84</p>
<i>Information source</i>	<p><i>Title</i> World Geodetic System 1984</p> <p><i>Author</i> L.B. Decker, Defense Mapping Agency Aerospace Center</p> <p><i>Publisher</i> Defense Mapping Agency Aerospace Center</p> <p><i>Publication date</i> 1986-04</p> <p><i>Edition date</i></p>
<i>Information source</i>	<p><i>Title</i> Refinements to The World Geodetic System 1984</p> <p><i>Author</i> S. Malys, J.A. Slater, R.W. Smith, L.E. Kunz, S.C. Kenyon</p> <p><i>Publisher</i> Institute of Navigation</p> <p><i>Publication date</i> 1997-09</p> <p><i>Edition date</i></p> <p><i>Series/Journal name</i> Proceedings of the 10th International Technical Meeting of the Satellite Division of The Institute of Navigation (ION-GPS-1997), Kansas City, MO, September 1997</p> <p><i>Page</i> 841-850</p>
<i>Data source</i>	ISO Geodetic Registry
<i>Remarks</i>	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 ($GM = 3.986004418 \times 10^{14} \text{ m}^3/\text{s}^2$) includes the mass of the atmosphere, and the Earth's angular rotational velocity about its spin axis ($\omega = 7.2921150 \times 10^{-5} \text{ rad/s}$).
<i>Semi-major axis</i>	6378137.0 m
<i>Inverse flattening</i>	298.2572236 m

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<i>Item class</i>	PrimeMeridian	
<i>Name</i>	Greenwich	
<i>Item status</i>	VALID	
<i>Identifier</i>	25	
<i>Alias</i>	Zero meridian	
<i>Information source</i>	<i>Title</i>	Why the Greenwich meridian moved
	<i>Author</i>	S. Malys, J.H. Seago, N.K. Pavlis, P.K. Seidelmann, G.H. Kaplan
	<i>Publisher</i>	Springer International Publishing
	<i>Publication date</i>	2015-12
	<i>Series/Journal name</i>	Journal of Geodesy
	<i>Issue identification</i>	Volume 89, No. 12
	<i>Page</i>	1263–1272
	<i>Title</i>	IERS Conventions (2010)
	<i>Author</i>	G. Petit, B.J. Luzum (eds)
	<i>Publisher</i>	Verlag des Bundesamts für Kartographie und Geodäsie
<i>Information source</i>	<i>Publication date</i>	2010
	<i>Edition date</i>	
	<i>Series/Journal name</i>	IERS Technical Notes
	<i>Issue identification</i>	36.0
	<i>Other citation details</i>	ISSN: 1019-4568
<i>Data source</i>	ISO Geodetic Registry	
<i>Greenwich longitude</i>	0.0 °	