ISO Geodetic Registry

Item class	GeodeticDatum	
Name	**IGS08**	
Item status	VALID	
Identifier	106	
Alias	International GNSS Service 2008	
Information source	*Title*	IGS08: the IGS realization of ITRF2008
	Author	P. Rebischung
	Publisher	Springer
	Publication date	2012-10-01
	Edition date	
	Series/Journal name	GPS Solutions
	Issue identification	Volume 16, Issue 4
Information source	*Title*	Upcoming switch to IGS08/igs08.atx
	Author	P. Rebischung, R. Schmid, J. Ray
	Publisher	International GNSS Service (IGS)
	Publication date	2011-03-07
	Edition date	
	Series/Journal name	IGSMAIL
	Issue identification	6354.0
Information source	*Title*	Chronology of IGS Reference Frame Usage
	Author	International GNSS Service Analysis Centre Coordinator
	Publisher	National Oceanic and Atmospheric Administration (NOAA), National Geodetic Survey (NGS)
	Publication date	2012-10-04
	Other citation details	Website
Data source	ISO Geodetic Registry	
Remarks	Replaces IGS05. Replaced by IGb08. Used by IGS products within the period 2011-04-17 thru 2012-10-06.	
Anchor definition	Derived from and aligned to a subset of stable, well-performing IGS station coordinates and velocities in ITRF2008 at epoch 2005.0 with position corrections applied to account for updates to receiver antenna calibrations. Uses updated absolute antenna calibrations for both ground stations and satellite antennas (igs08.atx).	
Release date	2011-04-17	
Coordinate Reference Epoch	2005.0	
Scope	Spatial Referencing	
Ellipsoid	GRS 1980	
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	**GRS 1980**	
Item status	VALID	
Identifier	27	
Alias	Geodetic Reference System 1980	
Alias	GRS1980	
Alias	IAG GRS80	
Alias	International 1979	
Alias	GRS80	
Information source	*Title*	Geodetic Reference System 1980
	Author	H. Moritz
	Publisher	Springer International Publishing
	Publication date	2003-03
	Series/Journal name	Journal of Geodesy
	Issue identification	Volume 74, No. 1
	Page	128–162
Information source	*Title*	Geodetic Reference System 1980
	Author	H. Moritz
	Publisher	International Association of Geodesy
	Publication date	1984
	Series/Journal name	Bulletin Geodesique
	Issue identification	Volume 58, No. 3
	Page	395-405
Data source	ISO Geodetic Registry	
Remarks	Adopted by IUGG 1979 Canberra. Inverse flattening is derived from geocentric gravitational constant GM = 3986005e8 m*m*m/s/s, dynamic form factor J2 = 108263e-8 and Earth's angular velocity = 7292115e-11 rad/s.	
Semi-major axis	6378137.0 m	
Inverse flattening	298.257222101 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 °	