ISO Geodetic Registry

Item class	GeodeticDatum	
Name	**IGb14**	
Item status	VALID	
Identifier	724	
Alias	International GNSS Service 2014 (V2)	
Information source	*Title*	Switch to IGb14 reference frame
	Author	P. Rebischung
	Publisher	International GNSS Service (IGS)
	Publication date	2020-04-14
	Series/Journal name	ISGMAIL
	Issue identification	7921
	Other citation details	https://lists.igs.org/pipermail/igsmail/2020/007917.html (accessed 2020-06-03)
Data source	ISO Geodetic Registry	
Remarks	An update to IGS14. Replaces IGS14. Used by IGS products from 2020-05-17. An updated set of satellite and ground antenna calibrations, igs14.atx, should be used together with IGb14, as well as post-seismic deformation models psd_IGb14.snx. IGb14 is aligned indirectly with ITRF2014 via IGS14.	
Anchor definition	IGb14 was obtained from a long-term stacking of daily IGS solutions of GPS weeks 730 to 2092. IGb14 is aligned in origin, scale and orientation to IGS14 via a subset of 233 stable, well-performing IGS stations.	
Release date	2020-04-14	
Coordinate Reference Epoch	2010.0	
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	

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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 °	