ISO Geodetic Registry

Item class	GeodeticCRS
Name	**IGb14 - LatLon**
Item status	VALID
Identifier	725
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 *Edition* *Edition date* *Series/Journal name* ISGMAIL *Issue identification* 7921 *Page* *Other citation details* https://lists.igs.org/pipermail/ igsmail/2020/007917.html (accessed 2020-06-03)
Data source	ISO Geodetic Registry
Remarks	Replaces IGS14 - LatLon.
Scope	Spatial referencing
Datum	IGb14
Coordinate System	Ellipsoidal 2D CS. Axes: latitude, longitude. Orientations: north, east. UoM: degree

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	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

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 °	

Item class	EllipsoidalCS
Name	**Ellipsoidal 2D CS. Axes: latitude, longitude. Orientations: north, east. UoM: degree**
Item status	VALID
Identifier	43

Information source	*Title*	ISO 19111 Geographical information - Spatial referencing by coordinates
	Author	International Organization for Standardization (ISO)
	Publisher	International Organization for Standardization (ISO)
	Publication date	2007-07-01
	Edition	Second Edition
	Series/Journal name	International Standard
	Issue identification	ISO 19111:2007

Data source	ISO Geodetic Registry
Remarks	Used in geographic 2D coordinate reference systems. Coordinates referenced to this CS are in degrees. Any degree representation (e.g. DMSH, decimal, etc.) may be used but that used must be declared for the user by the supplier of data.

Axes

Item class	CoordinateSystemAxis
Name	**Geodetic latitude**
Item status	VALID
Identifier	38

Information source	*Title*	ISO 19111 Geographical information - Spatial referencing by coordinates
	Author	International Organization for Standardization (ISO)
	Publisher	International Organization for Standardization (ISO)
	Publication date	2007-07-01
	Edition	Second Edition
	Series/Journal name	International Standard
	Issue identification	ISO 19111:2007

Data source	ISO Geodetic Registry
Remarks	Used in geographic 2D and geographic 3D coordinate reference systems.
Abbreviation	Lat
Direction	north
Unit	degree (supplier to define representation)

Item class	CoordinateSystemAxis
Name	**Geodetic longitude**
Item status	VALID
Identifier	34

Information source	*Title*	ISO 19111 Geographical information - Spatial referencing by coordinates
	Author	International Organization for Standardization (ISO)

	Publisher	International Organization for Standardization (ISO)
	Publication date	2007-07-01
	Edition	Second Edition
	Series/Journal name	International Standard
	Issue identification	ISO 19111:2007
Data source	ISO Geodetic Registry	
Remarks	Used in geographic 2D and geographic 3D coordinate reference systems.	
Abbreviation	Lon	
Direction	east	
Unit	degree (supplier to define representation)	