ISO Geodetic Registry

Item class	GeodeticCRS
Name	**ITRF88 - LatLon**
Item status	VALID
Identifier	337
Alias	IERS Terrestrial Reference Frame 1988
Alias	International Terrestrial Reference Frame 1988
Information source	*Title* The initial IERS Terrestrial Reference Frame *Author* C. Boucher, Z. Altamimi *Publisher* Central Bureau of IERS - Observatoire de Paris, 61 avenue de l'Observatoire, 75014 Paris, France *Publication date* 1989-06 *Edition date* *Series/Journal name* IERS Technical Notes *Issue identification* 1.0
Information source	*Title* IERS Annual Report for 1988 *Author* IERS *Publisher* Central Bureau of IERS - Observatoire de Paris, 61 avenue de l'Observatoire, 75014 Paris, France *Publication date* 1989-06-01 *Edition date*
Data source	ISO Geodetic Registry
Remarks	Replaced by ITRF89 - LatLon.
Scope	Spatial referencing
Datum	International Terrestrial Reference Frame 1988
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

Item class	GeodeticDatum
Name	**International Terrestrial Reference Frame 1988**
Item status	VALID
Identifier	154
Alias	IERS Terrestrial Reference Frame 1988
Alias	ITRF88
Information source	*Title* The initial IERS Terrestrial Reference Frame
	Author C. Boucher, Z. Altamimi
	Publisher Central Bureau of IERS - Observatoire de Paris, 61 avenue de l'Observatoire, 75014 Paris, France
	Publication date 1989-06
	Edition date
	Series/Journal name IERS Technical Notes
	Issue identification 1.0
Information source	*Title* Geodetic Reference System 1967
	Author International Association of Geodesy
	Publisher International Association of Geodesy
	Publication date 1971-08
	Edition date
	Series/Journal name Bulletin Géodésique
	Issue identification Publication speciale no. 3
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
Information source	*Title* IERS standards (1989)
	Author D.D. McCarthy, C. Boucher, R. Eanes, T. Fukushima, T. Herring, J. Lieske, C. Ma, H. Montag, P. Paquet, C. Reigber, J. Ries, B.E. Schutz, E.M. Standish, C. Veillet, J. Wahr
	Publisher Central Bureau of IERS - Observatoire de Paris, 61 avenue de l'Observatoire, 75014 Paris, France
	Publication date 1989-11-01
	Edition date
	Series/Journal name IERS Technical Notes
	Issue identification 3.0
Information source	*Title* IERS Annual Report for 1988
	Author IERS
	Publisher Central Bureau of IERS - Observatoire de Paris, 61 avenue de l'Observatoire, 75014 Paris, France
	Publication date 1989-06-01
	Edition date
Data source	ISO Geodetic Registry
Remarks	Replaced by ITRF89. The realisation epoch is not defined in the citations. This is a purely Cartesian reference frame with no ellipsoid defined. GRS80 is the ellipsoid recommended by the IAG and IERS.
Anchor definition	Realisation of the IERS Terrestrial Reference System (ITRS) at reference epoch 1988.0. Origin and scale are defined by an average of selected SLR solutions. Orientation is defined by successive alignment since BTS87 whose orientation was aligned to the BIH EOP series. Time evolution is defined by the AMO-2 plate motion model of Minster

	and Jordan (1978); no global velocity field was estimated for ITRF88. The AM0-2 model is used to estimate positions at other epochs. Datum defined by a set of 3 dimensional Cartesian station coordinates given by the citations.
Release date	1989-11-01
Coordinate Reference Epoch	1988.0
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 °	

ISO Geodetic Registry

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)	