ISO Geodetic Registry

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

ISO Geodetic Registry

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 °	