ISO Geodetic Registry

Item class	GeodeticDatum	
Name	**European Terrestrial Reference Frame 2014**	
Item status	VALID	
Identifier	745	
Alias	ETRF2014	
Information source	*Title*	EUREF Technical Note 1: Relationship and Transformation between the International and the European Terrestrial Reference Systems
	Author	Z. Altamimi
	Publisher	Institut National de l'Information Géographique et Forestière (IGN), France
	Revision date	2018-06-28
	Series/Journal name	EUREF Technical Notes
	Other citation details	http://etrs89.ensg.ign.fr/pub/EUREF-TN-1.pdf (accessed 2020-10-14)
Information source	*Title*	EUREF 2017 Resolutions
	Author	M. Greaves
	Publication date	2017-05-19
	Series/Journal name	Report on the Symposium of the IAG Subcommission for Europe (EUREF), Wroclaw, Poland, 17-19 May 2017
	Other citation details	http://www.euref.eu/symposia/2017Wroclaw/06-01-Resolutions-EUREF2017.pdf (accessed 2020-10-14)
Information source	*Title*	Guidelines for EUREF Densifications
	Author	C. Bruyninx, Z. Altamimi, A. Caporali, A. Kenyeres, J. Legrand, M. Lidberg
	Publisher	IAG sub-commission for the European Reference Frame – EUREF
	Revision date	2018-03-09
	Other citation details	http://www.epncb.oma.be/_documentation/guidelines/Guidelines_for_EUREF_Densifications.pdf (accessed 2020-20-14)
Data source	ISO Geodetic Registry	
Remarks	The EUREF Technical Working Group (TWG) recommends to use the ETRF2014 for high precision applications and better consistency with the ITRF2014 precise geocentric origin.	
Anchor definition	Coincides with ITRF2014 at epoch 1989.0 and is fixed to the stable part of the Eurasian tectonic plate through 3 rotation rates derived from the ITRF2014 velocity field, representing the Eurasian plate's angular velocity about its Euler pole.	
Release date	2017-11-16	
Coordinate Reference Epoch	2010.0	
Scope	Spatial referencing	
Ellipsoid	GRS 1980	
Prime Meridian	Greenwich	

Extent

Description	**Europe - onshore and offshore: Albania, Andorra, Austria, Belgium, Bosnia and Herzegovina, Bulgaria, Croatia, Cyprus,**

	Czech Republic, Denmark, Estonia, Faroe Islands, Finland, France, Germany, Gibraltar, Greece, Hungary, Ireland, Italy, Latvia, Liechtenstein, Lithuania, Luxembourg, Macedonia, Malta, Monaco, Montenegro, Netherlands, Norway including Svalbard and Jan Mayen, Poland, Portugal, Romania, San Marino, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, United Kingdom (UK) including Channel Islands and Isle of Man, Vatican City State.	
Geographic Bounding Box	*West-bound longitude*	-16.1
	North-bound latitude	84.17
	East-bound longitude	39.65
	South-bound latitude	32.88

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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 °	