

ISO Geodetic Registry

<i>Item class</i>	GeodeticCRS	
<i>Name</i>	ITRF97 - LatLonEHt	
<i>Item status</i>	VALID	
<i>Identifier</i>	388	
<i>Alias</i>	IERS Terrestrial Reference Frame 1997	
<i>Alias</i>	International Terrestrial Reference Frame 1997	
<i>Information source</i>	<i>Title</i>	The International Terrestrial Reference Frame (ITRF97)
	<i>Author</i>	C. Boucher, Z. Altamimi, P. Sillard
	<i>Publisher</i>	Central Bureau of IERS - Observatoire de Paris, 61 avenue de l'Observatoire, 75014 Paris, France
	<i>Publication date</i>	1999-05-01
	<i>Edition date</i>	
	<i>Series/Journal name</i>	IERS Technical Notes
	<i>Issue identification</i>	27.0
<i>Data source</i>	ISO Geodetic Registry	
<i>Remarks</i>	Replaces ITRF96 - LatLonEHt. Replaced by ITRF2000 - LatLonEHt.	
<i>Scope</i>	Spatial referencing	
<i>Datum</i>	International Terrestrial Reference Frame 1997	
<i>Coordinate System</i>	Ellipsoidal 3D CS. Axes: latitude, longitude, ellipsoidal height. Orientations: north, east, up. UoM: degree, degree, metre.	

Extent

<i>Description</i>	World.	
<i>Geographic Bounding Box</i>	<i>West-bound longitude</i>	-180.0
	<i>North-bound latitude</i>	90.0
	<i>East-bound longitude</i>	180.0
	<i>South-bound latitude</i>	-90.0

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<i>Item class</i>	GeodeticDatum	
<i>Name</i>	International Terrestrial Reference Frame 1997	
<i>Item status</i>	VALID	
<i>Identifier</i>	145	
<i>Alias</i>	IERS Terrestrial Reference Frame 1997	
<i>Alias</i>	ITRF97	
<i>Information source</i>	<i>Title</i>	The International Terrestrial Reference Frame (ITRF97)
	<i>Author</i>	C. Boucher, Z. Altamimi, P. Sillard
	<i>Publisher</i>	Central Bureau of IERS - Observatoire de Paris, 61 avenue de l'Observatoire, 75014 Paris, France
	<i>Publication date</i>	1999-05-01
	<i>Edition date</i>	
	<i>Series/Journal name</i>	IERS Technical Notes
	<i>Issue identification</i>	27.0
	<i>Title</i>	IERS Conventions (2010)
	<i>Author</i>	G. Petit, B.J. Luzum (eds)
	<i>Publisher</i>	Verlag des Bundesamts fur Kartographie und Geodasie
<i>Information source</i>	<i>Publication date</i>	2010
	<i>Edition date</i>	
	<i>Series/Journal name</i>	IERS Technical Notes
	<i>Issue identification</i>	36.0
	<i>Other citation details</i>	ISSN: 1019-4568
<i>Data source</i>	ISO Geodetic Registry	
<i>Remarks</i>	Replaces ITRF96. Replaced by ITRF2000. This is a purely Cartesian reference frame with no ellipsoid defined. GRS80 is the ellipsoid recommended by the IAG and IERS.	
<i>Anchor definition</i>	Realisation of the IERS Terrestrial Reference System (ITRS) at reference epoch 1997.0. The origin, scale, orientation and its time evolution is achieved such that ITRF97 is in the same system as the ITRF96. Datum defined by a set of 3 dimensional Cartesian station coordinates and velocities given by the citations.	
<i>Release date</i>	1999-05-01	
<i>Coordinate Reference Epoch</i>	1997.0	
<i>Scope</i>	Spatial referencing	
<i>Ellipsoid</i>	GRS 1980	
<i>Prime Meridian</i>	Greenwich	

Extent

<i>Description</i>	World.	
<i>Geographic Bounding Box</i>	<i>West-bound longitude</i>	-180.0
	<i>North-bound latitude</i>	90.0
	<i>East-bound longitude</i>	180.0
	<i>South-bound latitude</i>	-90.0

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<i>Item class</i>	Ellipsoid	
<i>Name</i>	GRS 1980	
<i>Item status</i>	VALID	
<i>Identifier</i>	27	
<i>Alias</i>	Geodetic Reference System 1980	
<i>Alias</i>	GRS1980	
<i>Alias</i>	IAG GRS80	
<i>Alias</i>	International 1979	
<i>Alias</i>	GRS80	
<i>Information source</i>	<i>Title</i>	Geodetic Reference System 1980
	<i>Author</i>	H. Moritz
	<i>Publisher</i>	Springer International Publishing
	<i>Publication date</i>	2003-03
	<i>Series/Journal name</i>	Journal of Geodesy
	<i>Issue identification</i>	Volume 74, No. 1
	<i>Page</i>	128–162
<i>Information source</i>	<i>Title</i>	Geodetic Reference System 1980
	<i>Author</i>	H. Moritz
	<i>Publisher</i>	International Association of Geodesy
	<i>Publication date</i>	1984
	<i>Series/Journal name</i>	Bulletin Geodesique
	<i>Issue identification</i>	Volume 58, No. 3
	<i>Page</i>	395-405
<i>Data source</i>	ISO Geodetic Registry	
<i>Remarks</i>	Adopted by IUGG 1979 Canberra. Inverse flattening is derived from geocentric gravitational constant $GM = 3986005e8 \text{ m}^3/\text{s}^2$, dynamic form factor $J_2 = 108263e-8$ and Earth's angular velocity = $7292115e-11 \text{ rad/s}$.	
<i>Semi-major axis</i>	6378137.0 m	
<i>Inverse flattening</i>	298.257222101 m	

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<i>Item class</i>	PrimeMeridian	
<i>Name</i>	Greenwich	
<i>Item status</i>	VALID	
<i>Identifier</i>	25	
<i>Alias</i>	Zero meridian	
<i>Information source</i>	<i>Title</i>	Why the Greenwich meridian moved
	<i>Author</i>	S. Malys, J.H. Seago, N.K. Pavlis, P.K. Seidelmann, G.H. Kaplan
	<i>Publisher</i>	Springer International Publishing
	<i>Publication date</i>	2015-12
	<i>Series/Journal name</i>	Journal of Geodesy
	<i>Issue identification</i>	Volume 89, No. 12
	<i>Page</i>	1263–1272
<i>Information source</i>	<i>Title</i>	IERS Conventions (2010)
	<i>Author</i>	G. Petit, B.J. Luzum (eds)
	<i>Publisher</i>	Verlag des Bundesamts für Kartographie und Geodäsie
	<i>Publication date</i>	2010
	<i>Edition date</i>	
	<i>Series/Journal name</i>	IERS Technical Notes
	<i>Issue identification</i>	36.0
<i>Data source</i>	<i>Other citation details</i>	ISSN: 1019-4568
	ISO Geodetic Registry	
<i>Greenwich longitude</i>	0.0 °	

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<i>Item class</i>	EllipsoidalCS	
<i>Name</i>	Ellipsoidal 3D CS. Axes: latitude, longitude, ellipsoidal height. Orientations: north, east, up. UoM: degree, degree, metre.	
<i>Item status</i>	VALID	
<i>Identifier</i>	46	
<i>Information source</i>	<i>Title</i>	ISO 19111 Geographical information - Spatial referencing by coordinates
	<i>Author</i>	International Organization for Standardization (ISO)
	<i>Publisher</i>	International Organization for Standardization (ISO)
	<i>Publication date</i>	2007-07-01
	<i>Edition</i>	Second Edition
	<i>Series/Journal name</i>	International Standard
	<i>Issue identification</i>	ISO 19111:2007
<i>Data source</i>	ISO Geodetic Registry	
<i>Remarks</i>	Used in geographic 3D coordinate reference systems. Horizontal 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.	

Axes

<i>Item class</i>	CoordinateSystemAxis	
<i>Name</i>	Geodetic latitude	
<i>Item status</i>	VALID	
<i>Identifier</i>	38	
<i>Information source</i>	<i>Title</i>	ISO 19111 Geographical information - Spatial referencing by coordinates
	<i>Author</i>	International Organization for Standardization (ISO)
	<i>Publisher</i>	International Organization for Standardization (ISO)
	<i>Publication date</i>	2007-07-01
	<i>Edition</i>	Second Edition
	<i>Series/Journal name</i>	International Standard
	<i>Issue identification</i>	ISO 19111:2007
<i>Data source</i>	ISO Geodetic Registry	
<i>Remarks</i>	Used in geographic 2D and geographic 3D coordinate reference systems.	
<i>Abbreviation</i>	Lat	
<i>Direction</i>	north	
<i>Unit</i>	degree (supplier to define representation)	

<i>Item class</i>	CoordinateSystemAxis	
<i>Name</i>	Geodetic longitude	
<i>Item status</i>	VALID	
<i>Identifier</i>	34	
<i>Information source</i>	<i>Title</i>	ISO 19111 Geographical information - Spatial referencing by coordinates
	<i>Author</i>	International Organization for Standardization (ISO)

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

<i>Item class</i>	CoordinateSystemAxis	
<i>Name</i>	Ellipsoidal height	
<i>Item status</i>	VALID	
<i>Identifier</i>	36	
<i>Information source</i>	<i>Title</i>	ISO 19111 Geographical information - Spatial referencing by coordinates
	<i>Author</i>	International Organization for Standardization (ISO)
	<i>Publisher</i>	International Organization for Standardization (ISO)
	<i>Publication date</i>	2007-07-01
	<i>Edition</i>	Second Edition
	<i>Series/Journal name</i>	International Standard
	<i>Issue identification</i>	ISO 19111:2007
<i>Data source</i>	ISO Geodetic Registry	
<i>Remarks</i>	Used only as part of an ellipsoidal 3D coordinate system in a geographic 3D coordinate reference system, never on its own.	
<i>Abbreviation</i>	h	
<i>Direction</i>	up	
<i>Unit</i>	metre	