

ISO Geodetic Registry

<i>Item class</i>	GeodeticCRS	
<i>Name</i>	ITRF92 - XYZ	
<i>Item status</i>	VALID	
<i>Identifier</i>	261	
<i>Alias</i>	International Terrestrial Reference Frame 1992	
<i>Alias</i>	IERS Terrestrial Reference Frame 1992	
<i>Information source</i>	<i>Title</i>	No-net-rotation model of current plate velocities incorporating plate motion model NUVEL-1
	<i>Author</i>	D.F. Argus, R.G. Gordon
	<i>Publisher</i>	American Geophysical Union
	<i>Publication date</i>	1990-05-01
	<i>Edition date</i>	
	<i>Series/Journal name</i>	Geophysical Research Letters
<i>Information source</i>	<i>Issue identification</i>	Volume 18, Issue 11
	<i>Title</i>	ITRF 92 and its associated velocity field
	<i>Author</i>	C. Boucher, Z. Altamimi, L. Duhem
	<i>Publisher</i>	Central Bureau of IERS - Observatoire de Paris, 61 avenue de l'Observatoire, 75014 Paris, France
	<i>Publication date</i>	1993-10-01
	<i>Edition date</i>	
<i>Data source</i>	<i>Series/Journal name</i>	IERS Technical Notes
	<i>Issue identification</i>	15.0
<i>Remarks</i>	Replaces ITRF91 - XYZ. Replaced by ITRF93 - XYZ.	
<i>Scope</i>	Spatial referencing	
<i>Datum</i>	International Terrestrial Reference Frame 1992	
<i>Coordinate System</i>	Geocentric 3D right-handed Cartesian CS. Axes: Geocentric X,Y,Z. Orientation: Z to North Pole, [X and Y in the equatorial plane, X at Prime Meridian Y in the equatorial plane at the Prime Meridian]. UoM: m.	

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 1992
<i>Item status</i>	VALID
<i>Identifier</i>	103
<i>Alias</i>	ITRF 92
<i>Alias</i>	IERS Terrestrial Reference Frame 1992
<i>Alias</i>	ITRF92
<i>Information source</i>	<p><i>Title</i> No-net-rotation model of current plate velocities incorporating plate motion model NUVEL-1</p> <p><i>Author</i> D.F. Argus, R.G. Gordon</p> <p><i>Publisher</i> American Geophysical Union</p> <p><i>Publication date</i> 1990-05-01</p> <p><i>Edition date</i></p> <p><i>Series/Journal name</i> Geophysical Research Letters</p> <p><i>Issue identification</i> Volume 18, Issue 11</p>
<i>Information source</i>	<p><i>Title</i> IERS Conventions (2010)</p> <p><i>Author</i> G. Petit, B.J. Luzum (eds)</p> <p><i>Publisher</i> Verlag des Bundesamts fur Kartographie und Geodasie</p> <p><i>Publication date</i> 2010</p> <p><i>Edition date</i></p> <p><i>Series/Journal name</i> IERS Technical Notes</p> <p><i>Issue identification</i> 36.0</p> <p><i>Other citation details</i> ISSN: 1019-4568</p>
<i>Information source</i>	<p><i>Title</i> ITRF 92 and its associated velocity field</p> <p><i>Author</i> C. Boucher, Z. Altamimi, L. Duhem</p> <p><i>Publisher</i> Central Bureau of IERS - Observatoire de Paris, 61 avenue de l'Observatoire, 75014 Paris, France</p> <p><i>Publication date</i> 1993-10-01</p> <p><i>Edition date</i></p> <p><i>Series/Journal name</i> IERS Technical Notes</p> <p><i>Issue identification</i> 15.0</p>
<i>Data source</i>	ISO Geodetic Registry
<i>Remarks</i>	Replaces ITRF91. Replaced by ITRF93. 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 1988.0. Origin is defined by SLR. Scale is defined by SLR noting that the scales of most VLBI Solutions are consistent with SLR. Orientation is defined such that no global rotation exists with respect to ITRF91. In order to insure the condition of no-net-rotation of the ITRS orientation with respect to the Earth's crust, NNR-NUVEL1 was selected as the reference motion model as recommended by the IERS Conventions (1992) (McCarthy, 1992). Datum defined by a set of 3 dimensional Cartesian station coordinates and velocities given in the citations. The ITRF92 velocity field has been obtained by combination of eight site velocity fields estimated by SLR and VLBI analysis centers.
<i>Release date</i>	1993-10-01
<i>Coordinate Reference Epoch</i>	1988.0
<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>	<table> <tr> <td><i>Title</i></td><td>Geodetic Reference System 1980</td></tr> <tr> <td><i>Author</i></td><td>H. Moritz</td></tr> <tr> <td><i>Publisher</i></td><td>Springer International Publishing</td></tr> <tr> <td><i>Publication date</i></td><td>2003-03</td></tr> <tr> <td><i>Series/Journal name</i></td><td>Journal of Geodesy</td></tr> <tr> <td><i>Issue identification</i></td><td>Volume 74, No. 1</td></tr> <tr> <td><i>Page</i></td><td>128–162</td></tr> </table>	<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>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>	<table> <tr> <td><i>Title</i></td><td>Geodetic Reference System 1980</td></tr> <tr> <td><i>Author</i></td><td>H. Moritz</td></tr> <tr> <td><i>Publisher</i></td><td>International Association of Geodesy</td></tr> <tr> <td><i>Publication date</i></td><td>1984</td></tr> <tr> <td><i>Series/Journal name</i></td><td>Bulletin Geodesique</td></tr> <tr> <td><i>Issue identification</i></td><td>Volume 58, No. 3</td></tr> <tr> <td><i>Page</i></td><td>395-405</td></tr> </table>	<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>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 °	

ISO Geodetic Registry

<i>Item class</i>	CartesianCS	
<i>Name</i>	Geocentric 3D right-handed Cartesian CS. Axes: Geocentric X,Y,Z. Orientation: Z to North Pole, [X and Y in the equatorial plane, X at Prime Meridian X in the equatorial plane at the Prime Meridian]. UoM: m.	
<i>Item status</i>	VALID	
<i>Identifier</i>	45	
<i>Alias</i>	Earth centred, earth fixed, right-handed 3D coordinate system, consisting of 3 orthogonal axes with X and Y axes in the equatorial plane, positive Z-axis parallel to mean earth rotation axis and pointing towards North Pole. UoM: m.	
<i>Alias</i>	ECEF	
<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 geocentric coordinate reference systems.	

Axes

<i>Item class</i>	CoordinateSystemAxis	
<i>Name</i>	Geocentric X	
<i>Item status</i>	VALID	
<i>Identifier</i>	33	
<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>Abbreviation</i>	X	
<i>Direction</i>	Geocentre > equator/0°E	
<i>Unit</i>	metre	

<i>Item class</i>	CoordinateSystemAxis	
<i>Name</i>	Geocentric Y	
<i>Item status</i>	VALID	
<i>Identifier</i>	37	

<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>Abbreviation</i>	Y	
<i>Direction</i>	Geocentre > equator/90°E	
<i>Unit</i>	metre	

<i>Item class</i>	CoordinateSystemAxis	
<i>Name</i>	Geocentric Z	
<i>Item status</i>	VALID	
<i>Identifier</i>	39	
<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>Abbreviation</i>	Z	
<i>Direction</i>	Geocentre > north pole	
<i>Unit</i>	metre	