

ISO Geodetic Registry

<i>Item class</i>	Transformation	
<i>Name</i>	ITRF96 to ITRF2000 [IERS v1]	
<i>Item status</i>	VALID	
<i>Identifier</i>	715	
<i>Information source</i>	<i>Title</i>	IERS Conventions (2003)
	<i>Author</i>	D.D. McCarthy, G. Petit
	<i>Publisher</i>	Verlag des Bundesamts für Kartographie und Geodäsie, Frankfurt am Main, Germany
	<i>Publication date</i>	2004-01-01
	<i>Edition date</i>	
	<i>Series/Journal name</i>	IERS Technical Notes
<i>Information source</i>	<i>Issue identification</i>	32.0
	<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>Information source</i>	<i>Series/Journal name</i>	IERS Technical Notes
	<i>Issue identification</i>	36.0
	<i>Other citation details</i>	ISSN: 1019-4568
	<i>Publication date</i>	
<i>Data source</i>	ISO Geodetic Registry	
<i>Remarks</i>	The IERS citation describes the ITRF2000 to ITRF96 transformation. Accuracy of transformation is given at the reference epoch for the transformation parameters. Accuracy at other epochs depends on the accuracies of the parameters at the reference epoch and their rates of change. Refer to citations for accuracies of the parameters and their rates of change.	
<i>Operation version</i>	IERS v1	
<i>Scope</i>	Spatial referencing	
<i>Operation accuracy</i>	0.001 m	
<i>Source CRS</i>	ITRF96 - XYZ	
<i>Target CRS</i>	ITRF2000 - XYZ	
<i>Operation method</i>	Time-Dependent Position Vector Transformation (geocentric Cartesian domain)	

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

Operation parameter values

<i>X-axis translation</i>	-0.67 centimetre
<i>Y-axis translation</i>	-0.61 centimetre
<i>Z-axis translation</i>	1.85 centimetre
<i>X-axis rotation</i>	0.0 milliarc-second
<i>Y-axis rotation</i>	0.0 milliarc-second
<i>Z-axis rotation</i>	0.0 milliarc-second

<i>Scale difference</i>	-1.55 parts per billion
<i>Rate of change of X-axis translation</i>	0.0 centimetre per year
<i>Rate of change of Y-axis translation</i>	0.06 centimetre per year
<i>Rate of change of Z-axis translation</i>	0.14 centimetre per year
<i>Rate of change of X-axis rotation</i>	0.0 milliarc-second per year
<i>Rate of change of Y-axis rotation</i>	0.0 milliarc-second per year
<i>Rate of change of Z-axis rotation</i>	-0.02 milliarc-second per year
<i>Rate of change of scale difference</i>	-0.01 parts per billion per year
<i>Time reference</i>	1997.0 year

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<i>Item class</i>	OperationMethod
<i>Name</i>	Time-Dependent Position Vector Transformation (geocentric Cartesian domain)
<i>Item status</i>	VALID
<i>Identifier</i>	82
<i>Alias</i>	Time-Dependent 7-Parameter Transformation
<i>Alias</i>	14-Parameter Transformation
<i>Alias</i>	Time-Dependent Position Vector Transformation
<i>Data source</i>	ISO Geodetic Registry
<i>Remarks</i>	Note the analogy with the rotation for the Time-dependent Coordinate Frame Transformation but beware of the differences! The Position Vector Transformation convention is used by IAG.
<i>Formula</i>	Geomatics Guidance Note No 7, part 2: Coordinate Conversions and Transformations including Formulas

Operation parameters

<i>X-axis translation</i>
<i>Y-axis translation</i>
<i>Z-axis translation</i>
<i>X-axis rotation</i>
<i>Y-axis rotation</i>
<i>Z-axis rotation</i>
<i>Scale difference</i>
<i>Rate of change of X-axis translation</i>
<i>Rate of change of Y-axis translation</i>
<i>Rate of change of Z-axis translation</i>
<i>Rate of change of X-axis rotation</i>
<i>Rate of change of Y-axis rotation</i>
<i>Rate of change of Z-axis rotation</i>
<i>Rate of change of scale difference</i>
<i>Time reference</i>