## ISO Geodetic Registry

Item class Transformation

Name ITRF2000 to ITRF2005 [IERS v1]

Item statusVALIDIdentifier690

Information source Title IERS Conventions (2010)

Author G. Petit, B.J. Luzum (eds)

Publisher Verlag des Bundesamts fur Kartographie und

Geodasie

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Information source Title Transformation Parameters between ITRF2005

and ITRF2000

Author Institute National de l'Information Geographique

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Publisher Institute National de l'Information Geographique

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Geodesie (LAREG)

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Edition date

Other citation details Website

Data source ISO Geodetic Registry

Remarks The IERS citation describes the ITRF2005 to ITRF2000 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.

Operation version IERS v1

Scope Spatial referencing

Operation accuracy 0.001 m

Source CRS ITRF2000 - XYZ
Target CRS ITRF2005 - XYZ

Operation method Time-Dependent Position Vector Transformation (geocentric Cartesian

domain)

#### 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

#### Operation parameter values

Time reference 2000.0 year

Rate of change of scale difference -0.08 parts per billion per year
Rate of change of Z-axis rotation 0.0 milliarc-second per year
Rate of change of Y-axis rotation 0.0 milliarc-second per year

Retrieved: 1970-01-01T00:00:00+00:00 // Last Registry change: 2023-10-02T11:41Z

Rate of change of X-axis rotation	0.0 milliarc-second per year	1
Rate of change of Z-axis translation	1.8 millimetre per year	İ
Rate of change of Y-axis translation	-0.1 millimetre per year	
Rate of change of X-axis translation	0.2 millimetre per year	
Scale difference	-0.4 parts per billion	
Z-axis rotation	0.0 milliarc-second	
Y-axis rotation	0.0 milliarc-second	
X-axis rotation	0.0 milliarc-second	
Z-axis translation	5.8 millimetre	
Y-axis translation	0.8 millimetre	
X-axis translation	-0.1 millimetre	İ

# **ISO Geodetic Registry**

Item class OperationMethod

Name Time-Dependent Position Vector

**Transformation (geocentric Cartesian domain)** 

Item status VALID Identifier 82

Alias Time-Dependent 7-Parameter Transformation

Alias 14-Parameter Transformation

Alias Time-Dependent Position Vector Transformation

Data source ISO Geodetic Registry

Remarks 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.

Formula Geomatics Guidance Note No 7, part 2: Coordinate Conversions and

Transformations including Formulas

### Operation parameters

X-axis translation

Y-axis translation

Z-axis translation

X-axis rotation

Y-axis rotation

Z-axis rotation

Scale difference

Rate of change of X-axis translation

Rate of change of Y-axis translation

Rate of change of Z-axis translation

Rate of change of X-axis rotation

Rate of change of Y-axis rotation

Rate of change of Z-axis rotation

Rate of change of scale difference

Time reference