ISO Geodetic Registry

Item class Transformation

Name ITRF96 to ITRF97 [IERS v1]

Item statusVALIDIdentifier600

Information source Title The International Terrestrial Reference Frame

(ITRF97)

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Remarks Null transformation. ITRF97 is aligned to ITRF96.

Operation version IERS v1

Scope Spatial referencing

Operation accuracy 0.0 m

Source CRS ITRF96 - XYZ
Target CRS ITRF97 - XYZ

Operation method Time-Dependent Position Vector Transformation (geocentric Cartesian

domain)

Extent

Data source

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

Rate of change of scale difference Rate of change of Z-axis rotation Rate of change of Y-axis rotation Rate of change of Y-axis rotation O.0 milliarc-second per year of change of X-axis rotation O.0 milliarc-second per year of the change of X-axis rotation O.0 milliarc-second per year of the change of X-axis rotation O.0 milliarc-second per year of the change of X-axis rotation	
Rate of change of Y-axis rotation 0.0 milliarc-second per year	ar
, , ,	ar
Rate of change of X-axis rotation 0.0 milliarc-second per ve	ar
1	ar
Rate of change of Z-axis translation 0.0 centimetre per year	
Rate of change of Y-axis translation 0.0 centimetre per year	
Rate of change of X-axis translation 0.0 centimetre per year	
Scale difference 0.0 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 0.0 centimetre	
Y-axis translation 0.0 centimetre	
X-axis translation 0.0 centimetre	

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