## **ISO Geodetic Registry**

Item class Transformation

Name ITRF90 to WGS 84 TRANSIT [IERS v1]

Item status **VALID** Identifier 772

Information source Title ITRF and WGS84

> Author IGN Publisher **IGN** Publication date 2013-12-11

Edition Edition date

Series/Journal name Issue identification

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Other citation details ftp://itrf-ftp.ign.fr/pub/itrf/WGS84.TXT (accessed

2021-05-17)

Information source Title IERS Standards (1992)

Author D.D. McCarthy (ed.)

Publisher Central Bureau of IERS - Observatoire de Paris

Publication date 1992-07

Edition Edition date

Series/Journal name IERS Technical Notes

Issue identification

Page

Other citation details https://www.iers.org/IERS/EN/Publications/

TechnicalNotes/tn13.html (accessed 2021-04-25)

ISO Geodetic Registry Data source

Remarks

Operation version IERS v1

Scope Spatial referencing

Operation accuracy 1.0 m

Source CRS ITRF90 - XYZ

Target CRS WGS 84 TRANSIT - XYZ

Operation method 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

X-axis translation 0.06 metre Y-axis translation -0.517 metre Z-axis translation -0.223 metre X-axis rotation 0.0183 second Y-axis rotation -3.0E-4 second Z-axis rotation 0.007 second

# **ISO Geodetic Registry**

Item class OperationMethod

Name Position Vector Transformation (geocentric

**Cartesian domain)** 

Item statusVALIDIdentifier88

Alias 7-Parameter Transformation

Alias Bursa-Wolf Transformation

Alias Position Vector Transformation

Alias Helmert Transformation

Data source ISO Geodetic Registry

Remarks This method is a specific case of the Molodensky-Badekas (PV)

method in which the evaluation point is the geocentre with coordinate

values of zero. Note the analogy with the Coordinate Frame

Transformation method but beware of the differences!

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
Y-axis rotation
Z-axis rotation
Scale difference