ISO Geodetic Registry

Item class Transformation

Name IGS08 to IGb08 [IGS v1]

Item statusVALIDIdentifier602

Information source Title Chronology of IGS Reference Frame Usage

Author International GNSS Service Analysis Centre

Coordinator

Publisher National Oceanic and Atmospheric Administration

(NOAA), National Geodetic Survey (NGS)

Publication date 2012-10-04 Other citation details Website

Information source Title IGb08: an update on IGS08

Author P. Rebischung

Publisher International GNSS Service (IGS)

Publication date 2012-09-24

Edition date

Series/Journal name IGSMAIL Issue identification 6663.0

Data source ISO Geodetic Registry

Remarks Null transformation. IGS08 and IGb08 are both aligned to ITRF2008

and are treated as the same reference frame.

Operation version IGS v1

Scope Spatial referencing

 Operation accuracy
 0.0 m

 Source CRS
 IGS08 - XYZ

 Target CRS
 IGb08 - 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	2005.0 year	
Rate of change of scale difference	0.0 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	
Rate of change of X-axis rotation	0.0 milliarc-second per year	
Rate of change of Z-axis translation	0.0 millimetre per year	İ
Rate of change of Y-axis translation	0.0 millimetre per year	İ
Rate of change of X-axis translation	0.0 millimetre per year	İ
Scale difference	0.0 parts per billion	İ
Z-axis rotation	0.0 milliarc-second	İ
Y-axis rotation	0.0 milliarc-second	İ
X-axis rotation	0.0 milliarc-second	
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Z-axis translation	0.0 millimetre
Y-axis translation	0.0 millimetre
X-axis translation	0.0 millimetre

ISO Geodetic Registry

Item class OperationMethod

Name Time-Dependent Position Vector

Transformation (geocentric Cartesian domain)

Item statusVALIDIdentifier82

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