ISO Geodetic Registry

Item class	Transformation
Name	**IGS14 to IGb14 [IGS v1]**
Item status	VALID
Identifier	728
Information source	*Title* Switch to IGb14 reference frame *Author* P. Rebischung *Publisher* International GNSS Service (IGS) *Publication date* 2020-04-14 *Series/Journal name* ISGMAIL *Issue identification* 7921 *Other citation details* https://lists.igs.org/pipermail/ igsmail/2020/007917.html (accessed 2020-06-03)
Data source	ISO Geodetic Registry
Remarks	Null transformation. IGS14 and IGb14 are treated as the same reference frame.
Operation version	IGS v1
Scope	Spatial referencing
Operation accuracy	0.0 m
Source CRS	IGS14 - XYZ
Target CRS	IGb14 - 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

X-axis translation	0.0 millimetre
Y-axis translation	0.0 millimetre
Z-axis translation	0.0 millimetre
X-axis rotation	0.0 milliarc-second
Y-axis rotation	0.0 milliarc-second
Z-axis rotation	0.0 milliarc-second
Scale difference	0.0 parts per billion
Rate of change of X-axis translation	0.0 millimetre per year
Rate of change of Y-axis translation	0.0 millimetre per year
Rate of change of Z-axis translation	0.0 millimetre per year
Rate of change of X-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 Z-axis rotation	0.0 milliarc-second per year
Rate of change of scale difference	0.0 parts per billion per year
Time reference	2010.0 year

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