ISO Geodetic Registry

Item class	Transformation	
Name	**ITRF2000 to GDA94 [GA v1]**	
Item status	VALID	
Identifier	495	
Information source	*Title*	International Terrestrial Reference Frame (ITRF) to GDA94 Coordinate Transformations
	Author	J. Dawson, J. Steed
	Publisher	Geoscience Australia
	Publication date	2004-03-01
	Edition date	
Data source	ISO Geodetic Registry	
Remarks	Implemented 2001. Replaced by Dawson and Woods transformation of 2010, ITRF2000 to GDA94 [GA v2].	
Operation version	GA v1	
Scope	Spatial referencing	
Operation accuracy	0.1 m	
Source CRS	ITRF2000 - XYZ	
Target CRS	GDA94 - XYZ	
Operation method	Time-Dependent Coordinate Frame Transformation (geocentric Cartesian domain)	

Extent

Description	**Australia - onshore and offshore - mainland, Tasmania, Lord Howe Island, Norfolk Island, Macquarie Island. Christmas Island - onshore and offshore. Cocos (Keeling) Islands - onshore and offshore.**	
Geographic Bounding Box	*West-bound longitude*	93.41
	North-bound latitude	-8.47
	East-bound longitude	173.4
	South-bound latitude	-60.56

Operation parameter values

X-axis translation	-0.0761 metre
Y-axis translation	-0.0101 metre
Z-axis translation	0.0444 metre
X-axis rotation	0.008765 arc-second
Y-axis rotation	0.009361 arc-second
Z-axis rotation	0.009325 arc-second
Scale difference	0.007935 parts per million
Rate of change of X-axis translation	0.011 metre per year
Rate of change of Y-axis translation	-0.0045 metre per year
Rate of change of Z-axis translation	-0.0174 metre per year
Rate of change of X-axis rotation	0.001034 arc-second per year
Rate of change of Y-axis rotation	6.71E-4 arc-second per year
Rate of change of Z-axis rotation	0.001039 arc-second per year
Rate of change of scale difference	-5.38E-4 parts per million per year

Time reference	2000.0 year

ISO Geodetic Registry

Item class	OperationMethod
Name	**Time-Dependent Coordinate Frame Transformation (geocentric Cartesian domain)**
Item status	VALID
Identifier	94
Alias	Time-Dependent 7-Parameter Transformation
Alias	14-Parameter Transformation
Alias	Time-Dependent Coordinate Frame Transformation
Data source	ISO Geodetic Registry
Remarks	Note the analogy with the Time-dependent Position Vector 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