ISO Geodetic Registry

Item class	Transformation		
Name	**ITRF2014 to GDA2020 [GA v1]**		
Item status	VALID		
Identifier	493		
Information source	Title	Geocentric Datum of Australia 2020 Technical Manual Version 1.2	
	Author	Permanent Committee on Geodesy of the Intergovernmental Committee on Surveying and Mapping	
	Publisher	Intergovernmental Committee on Surveying and Mapping	
	Publication date	2018-08-24	
	Edition date		
Data source	ISO Geodetic Registry		
Remarks	Defined at epoch 2020.0.		
Operation version	GA v1		
Scope	Spatial referencing		
Operation accuracy	0.01 m		
Source CRS	ITRF2014 - XYZ		
Target CRS	GDA2020 - 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

Time reference	2020.0 year
Rate of change of scale difference	0.0 parts per million per year
Rate of change of Z-axis rotation	1.20716 milliarc-second per year
Rate of change of Y-axis rotation	1.18346 milliarc-second per year
Rate of change of X-axis rotation	1.50379 milliarc-second per year
Rate of change of Z-axis translation	0.0 metre per year
Rate of change of Y-axis translation	0.0 metre per year
Rate of change of X-axis translation	0.0 metre per year
Scale difference	0.0 parts per million
Z-axis rotation	0.0 arc-second
Y-axis rotation	0.0 arc-second
X-axis rotation	0.0 arc-second

Z-axis translation	0.0 metre
Y-axis translation	0.0 metre
X-axis translation	0.0 metre

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