ISO Geodetic Registry

Item class	Transformation	
Name	**GDA2020 to WGS 84 (G1762) [GA v1]**	
Item status	VALID	
Identifier	563	
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	
Operation version	GA v1	
Scope	Spatial referencing	
Operation accuracy	0.2 m	
Source CRS	GDA2020 - XYZ	
Target CRS	WGS 84 (G1762) - 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	0.0 metre
Y-axis translation	0.0 metre
Z-axis translation	0.0 metre
X-axis rotation	0.0 arc-second
Y-axis rotation	0.0 arc-second
Z-axis rotation	0.0 arc-second
Scale difference	0.0 parts per million
Rate of change of X-axis translation	0.0 metre per year
Rate of change of Y-axis translation	0.0 metre per year
Rate of change of Z-axis translation	0.0 metre per year
Rate of change of X-axis rotation	-1.50379 milliarc-second per year
Rate of change of Y-axis rotation	-1.18346 milliarc-second per year
Rate of change of Z-axis rotation	-1.20716 milliarc-second per year

Rate of change of scale difference	0.0 parts per million per year
Time reference	2020.0 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