ISO Geodetic Registry

Item class Transformation

Name GDA94 to GDA2020 [GA v1]

Item statusVALIDIdentifier702

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

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Mapping

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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 GDA94 - XYZ
Target CRS GDA2020 - XYZ

Operation method 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

0.06155 metre	
-0.01087 metre	
-0.04019 metre	
-0.0394924 arc-second	
-0.0327221 arc-second	
-0.0328979 arc-second	
-0.009994 parts per million	

ISO Geodetic Registry

Item class OperationMethod

Name Coordinate Frame Transformation (geocentric

Cartesian domain)

Item status VALID Identifier 74

Alias Coordinate Frame Transformation

Alias 7-Parameter Transformation

Alias Bursa-Wolf Transformation

Data source ISO Geodetic Registry

Remarks This method is a specific case of the Molodensky-Badekas (CF)

method in which the evaluation point is at the geocentre with

coordinate values of zero. Note the analogy with the Position Vector

transformation method but beware of the differences!

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