ISO Geodetic Registry

Item class	Transformation	
Name	**GDA2020 to AVWS - NHt [GA v2]**	
Item status	VALID	
Identifier	792	
Alias	Australian Geodetic Quasi-Geoid	
Alias	AGQG_20201120	
Alias	AGQG	
Information source	*Title*	Australian Vertical Working Surface
	Author	Geoscience Australia
	Publisher	Geoscience Australia
	Revision date	2020
	Edition	
	Edition date	
	Series/Journal name	
	Issue identification	
	Page	
	Other citation details	Website. https://www.icsm.gov.au/australian-vertical-working-surface (accessed 2021-09-27)
Information source	*Title*	Australian Vertical Working Surface (AVWS): Technical Implementation Plan
	Author	Intergovernmental Committee on Surveying and Mapping (ICSM)
	Publisher	Geoscience Australia
	Revision date	2020-08-26
	Edition	Version 1.2
	Edition date	2020-08-26
	Series/Journal name	
	Issue identification	
	Page	
	Other citation details	https://www.icsm.gov.au/sites/default/files/2020-08/AVWS%20Technical%20Implementation%20Plan_V1.2.pdf (accessed 2021-09-27)
Information source	*Title*	AGQG_20201120.gsb
	Author	Geoscience Australia
	Publisher	Geoscience Australia
	Revision date	2020-11-20
	Edition	
	Edition date	
	Series/Journal name	,
	Issue identification	,
	Page	,
	Other citation details	https://s3-ap-southeast-2.amazonaws.com/geoid/AGQG/AGQG_20201120.gsb (accessed 2021-09-27)
Data source	ISO Geodetic Registry	
Remarks	AGQG is used to realise the AVWS datum. Uncertainties (4-8 cm across mainland Australia) are given in the accompanying grid file AGQG_uncertainty_20201120.gsb. Replaces AGQG model AGQG_20191107 which was found to contain a bias of ~0.91 m.	
Operation version	GA v2	
Scope	Spatial referencing	
Operation accuracy	0.1 m	
Source CRS	GDA2020 - LatLonEHt	
Target CRS	AVWS - NHt	

Operation method	Geographic3D to GravityRelatedHeight (AUSGeoid v2)

Extent

Description	**Australia including Lord Howe Island, Macquarie Island, Ashmore and Cartier Islands, Christmas Island, Cocos (Keeling) Islands, Norfolk Island. All onshore and offshore.**	
Geographic Bounding Box	*West-bound longitude*	93.41
	North-bound latitude	-8.47
	East-bound longitude	173.34
	South-bound latitude	-60.56

Operation parameter values

Geoid (height correction) model file	AGQG_20201120.gsb

ISO Geodetic Registry

Item class	OperationMethod
Name	**Geographic3D to GravityRelatedHeight (AUSGeoid v2)**
Item status	VALID
Identifier	83
Alias	AUSGeoid09
Data source	ISO Geodetic Registry
Remarks	The Information Source references software which offers both bi-cubic and bi-linear interpolation methods. Unlike earlier Australian models which used bi-linear interpolation, AUSGeoid09 uses the bi-cubic method. See Info Source for file format doc.
Formula	The AUSGeoid09 model of the Australian Height Datum

Operation parameters

Geoid (height correction) model file