

# ISO Geodetic Registry

<i>Item class</i>	Transformation
<i>Name</i>	<b>GDA2020 to AVWS - NHt [GA v1]</b>
<i>Item status</i>	INVALID
<i>Identifier</i>	791
<i>Alias</i>	Australian Geodetic Quasi-Geoid
<i>Alias</i>	AGQG
<i>Alias</i>	AGQG_20191107
<i>Information source</i>	<p><i>Title</i> AGQG_20191107.gsb</p> <p><i>Author</i> Geoscience Australia</p> <p><i>Publisher</i> Geoscience Australia</p> <p><i>Revision date</i> 2019-11-07</p> <p><i>Other citation details</i> <a href="https://s3-ap-southeast-2.amazonaws.com/geoid/AGQG/AGQG_20191107.gsb">https://s3-ap-southeast-2.amazonaws.com/geoid/AGQG/AGQG_20191107.gsb</a> (accessed 2021-09-27)</p>
<i>Information source</i>	<p><i>Title</i> Australian Vertical Working Surface (AVWS): Technical Implementation Plan</p> <p><i>Author</i> Intergovernmental Committee on Surveying and Mapping (ICSM)</p> <p><i>Publisher</i> Geoscience Australia</p> <p><i>Revision date</i> 2020-08-26</p> <p><i>Edition</i> Version 1.2</p> <p><i>Edition date</i> 2020-08-26</p> <p><i>Other citation details</i> <a href="https://www.icsm.gov.au/sites/default/files/2020-08/AVWS%20Technical%20Implementation%20Plan_V1.2.pdf">https://www.icsm.gov.au/sites/default/files/2020-08/AVWS%20Technical%20Implementation%20Plan_V1.2.pdf</a> (accessed 2021-09-27)</p>
<i>Information source</i>	<p><i>Title</i> Australian Vertical Working Surface</p> <p><i>Author</i> Geoscience Australia</p> <p><i>Publisher</i> Geoscience Australia</p> <p><i>Revision date</i> 2020</p> <p><i>Other citation details</i> Website. <a href="https://www.icsm.gov.au/australian-vertical-working-surface">https://www.icsm.gov.au/australian-vertical-working-surface</a> (accessed 2021-09-27)</p>
<i>Data source</i>	ISO Geodetic Registry
<i>Remarks</i>	AGQG is used to realise the AVWS datum. Uncertainties (4-8 cm across mainland Australia) are given in the accompanying grid file AGQG_uncertainty_20191107.gsb. This version of the AGQG model contains a systematic bias of ~0.91 m due to an error in information from suppliers of the global model used in its creation. This AGQG model has been replaced with version GAv2 called AGQG_20201120.
<i>Operation version</i>	GA v1
<i>Scope</i>	Spatial referencing
<i>Operation accuracy</i>	0.1 m
<i>Source CRS</i>	GDA2020 - LatLonEHt
<i>Target CRS</i>	AVWS - NHt
<i>Operation method</i>	Geographic3D to GravityRelatedHeight (AUSGeoid v2)

## Extent

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

#### Operation parameter values

<i>Geoid (height correction) model file</i>	AGQG_20191107.gsb
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<i>Item class</i>	OperationMethod
<i>Name</i>	<b>Geographic3D to GravityRelatedHeight (AUSGeoid v2)</b>
<i>Item status</i>	VALID
<i>Identifier</i>	83
<i>Alias</i>	AUSGeoid09
<i>Data source</i>	ISO Geodetic Registry
<i>Remarks</i>	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.
<i>Formula</i>	The AUSGeoid09 model of the Australian Height Datum

## Operation parameters

<i>Geoid (height correction) model file</i>
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