

ISO Geodetic Registry

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|---------------------------|---|
| <i>Item class</i> | Transformation |
| <i>Name</i> | GDA2020 to AVWS - NHt [GA v1] |
| <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> https://s3-ap-southeast-2.amazonaws.com/geoid/AGQG/AGQG_20191107.gsb (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> https://www.icsm.gov.au/sites/default/files/2020-08/AVWS%20Technical%20Implementation%20Plan_V1.2.pdf (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. https://www.icsm.gov.au/australian-vertical-working-surface (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

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|--------------------|--|
| <i>Description</i> | Australia including Lord Howe Island, Macquarie Island, Ashmore and Cartier Islands, Christmas Island, Cocos (Keeling) Islands, Norfolk Island. All onshore and offshore. |
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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

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|---|-------------------|
| <i>Geoid (height correction) model file</i> | AGQG_20191107.gsb |
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|--------------------|---|
| <i>Item class</i> | OperationMethod |
| <i>Name</i> | Geographic3D to GravityRelatedHeight (AUSGeoid v2) |
| <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

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