

ISO Geodetic Registry

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|---------------------------|---|---|
| <i>Item class</i> | Transformation | |
| <i>Name</i> | GDA2020 to AVWS - NHt [GA v2] | |
| <i>Item status</i> | VALID | |
| <i>Identifier</i> | 792 | |
| <i>Alias</i> | Australian Geodetic Quasi-Geoid | |
| <i>Alias</i> | AGQG_20201120 | |
| <i>Alias</i> | AGQG | |
| <i>Information source</i> | <i>Title</i> | Australian Vertical Working Surface |
| | <i>Author</i> | Geoscience Australia |
| | <i>Publisher</i> | Geoscience Australia |
| | <i>Revision date</i> | 2020 |
| | <i>Edition</i> | |
| | <i>Edition date</i> | |
| | <i>Series/Journal name</i> | |
| | <i>Issue identification</i> | |
| | <i>Page</i> | |
| | <i>Other citation details</i> | Website. https://www.icsm.gov.au/australian-vertical-working-surface (accessed 2021-09-27) |
| | <i>Title</i> | Australian Vertical Working Surface (AVWS): Technical Implementation Plan |
| | <i>Author</i> | Intergovernmental Committee on Surveying and Mapping (ICSM) |
| <i>Information source</i> | <i>Publisher</i> | Geoscience Australia |
| | <i>Revision date</i> | 2020-08-26 |
| | <i>Edition</i> | Version 1.2 |
| | <i>Edition date</i> | 2020-08-26 |
| | <i>Series/Journal name</i> | |
| | <i>Issue identification</i> | |
| | <i>Page</i> | |
| | <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) |
| | <i>Title</i> | AGQG_20201120.gsb |
| | <i>Author</i> | Geoscience Australia |
| | <i>Publisher</i> | Geoscience Australia |
| | <i>Revision date</i> | 2020-11-20 |
| <i>Information source</i> | <i>Edition</i> | |
| | <i>Edition date</i> | |
| | <i>Series/Journal name</i> | |
| | <i>Issue identification</i> | |
| | <i>Page</i> | |
| | <i>Other citation details</i> | https://s3-ap-southeast-2.amazonaws.com/geoid/AGQG/AGQG_20201120.gsb (accessed 2021-09-27) |
| | <i>Title</i> | |
| | <i>Author</i> | |
| | <i>Publisher</i> | |
| | <i>Revision date</i> | |
| | <i>Edition</i> | |
| | <i>Edition date</i> | |
| <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_20201120.gsb. Replaces AGQG model AGQG_20191107 which was found to contain a bias of ~0.91 m. | |
| <i>Operation version</i> | GA v2 | |
| <i>Scope</i> | Spatial referencing | |
| <i>Operation accuracy</i> | 0.1 m | |
| <i>Source CRS</i> | GDA2020 - LatLonEHt | |
| <i>Target CRS</i> | AVWS - NHt | |

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| <i>Operation method</i> | Geographic3D to GravityRelatedHeight (AUSGeoid v2) |
|-------------------------|--|

Extent

| | | | |
|--------------------------------|--|--|--------|
| <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. | | |
| <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_20201120.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

Geoid (height correction) model file