

ISO Geodetic Registry

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|---------------------------|---|--|
| <i>Item class</i> | Transformation | |
| <i>Name</i> | GDA2020 to AHD [GA v1] | |
| <i>Item status</i> | VALID | |
| <i>Identifier</i> | 598 | |
| <i>Alias</i> | AUSGeoid2020 | |
| <i>Information source</i> | <i>Title</i> | Geocentric Datum of Australia 2020 Technical Manual Version 1.2 |
| | <i>Author</i> | Permanent Committee on Geodesy of the Intergovernmental Committee on Surveying and Mapping |
| | <i>Publisher</i> | Intergovernmental Committee on Surveying and Mapping |
| | <i>Publication date</i> | 2018-08-24 |
| | <i>Edition date</i> | |
| <i>Data source</i> | ISO Geodetic Registry | |
| <i>Remarks</i> | Derivation of gravity-related heights from GPS observations. Uses AUSGeoid2020 model which uses bi-cubic interpolation; bi-linear interpolation of the grid file will give results agreeing to within 1cm 99.97% of the time. | |
| <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> | AHD - NOHt | |
| <i>Operation method</i> | Geographic3D to GravityRelatedHeight (AUSGeoid v2) | |

Extent

| | | |
|--------------------------------|---|--------|
| <i>Description</i> | Australia - onshore and offshore. Christmas Island - onshore and offshore. Cocos (Keeling) Islands - onshore and offshore. | |
| <i>Geographic Bounding Box</i> | <i>West-bound longitude</i> | 93.0 |
| | <i>North-bound latitude</i> | -8.0 |
| | <i>East-bound longitude</i> | 173.98 |
| | <i>South-bound latitude</i> | -60.98 |

Operation parameter values

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|---|---------------------------|
| <i>Geoid (height correction) model file</i> | AUSGeoid2020_20170908.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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