

# ISO Geodetic Registry

<i>Item class</i>	Transformation	
<i>Name</i>	<b>GDA2020 to AHD [GA v1]</b>	
<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>	<b>Australia - onshore and offshore. Christmas Island - onshore and offshore. Cocos (Keeling) Islands - onshore and offshore.</b>	
<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

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