

# ISO Geodetic Registry

<i>Item class</i>	Transformation	
<i>Name</i>	<b>GDA94 to AHD [GA-mainland v1]</b>	
<i>Item status</i>	VALID	
<i>Identifier</i>	633	
<i>Alias</i>	AUSGeoid09	
<i>Information source</i>	<i>Title</i>	The AUSGeoid09 model of the Australian Height Datum
	<i>Author</i>	W. E. Featherstone, J. F. Kirby, C. Hirt, M. S. Filmer, S. J. Claessens, N. J. Brown, G. Hu, G. M. Johnston
	<i>Publisher</i>	Springer
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	<i>Page</i>	133.0
<i>Data source</i>	ISO Geodetic Registry	
<i>Remarks</i>	Implemented 2009. Replaces AUSGeoid98 model. Uses AUSGeoid09 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-mainland v1	
<i>Scope</i>	Spatial referencing	
<i>Operation accuracy</i>	0.06 m	
<i>Source CRS</i>	GDA94 - LatLonEHt	
<i>Target CRS</i>	AHD - NOHt	
<i>Operation method</i>	Geographic3D to GravityRelatedHeight (AUSGeoid v2)	

## Extent

<i>Description</i>	<b>Australia - onshore and nearshore - Australian Capital Territory, New South Wales, Northern Territory, Queensland, South Australia, Western Australia, Victoria.</b>	
<i>Geographic Bounding Box</i>	<i>West-bound longitude</i>	112.85
	<i>North-bound latitude</i>	-10.65
	<i>East-bound longitude</i>	153.69
	<i>South-bound latitude</i>	-39.2

## Operation parameter values

<i>Geoid (height correction) model file</i>	AUSGeoid09_GDA94_V1.01_DOV_windows.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

*Geoid (height correction) model file*