ISO Geodetic Registry

Item class	Transformation	
Name	**GDA94 to AHD [GA-mainland v1]**	
Item status	VALID	
Identifier	633	
Alias	AUSGeoid09	
Information source	*Title*	The AUSGeoid09 model of the Australian Height Datum
	Author	W. E. Featherstone, J. F. Kirby, C. Hirt, M. S. Filmer, S. J. Claessens, N. J. Brown, G. Hu, G. M. Johnston
	Publisher	Springer
	Publication date	2010-11-19
	Edition date	2010-11-19
	Series/Journal name	Journal of Geodesy
	Issue identification	85.0
	Page	133.0
Data source	ISO Geodetic Registry	
Remarks	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.	
Operation version	GA-mainland v1	
Scope	Spatial referencing	
Operation accuracy	0.06 m	
Source CRS	GDA94 - LatLonEHt	
Target CRS	AHD - NOHt	
Operation method	Geographic3D to GravityRelatedHeight (AUSGeoid v2)	

Extent

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

Operation parameter values

Geoid (height correction) model file	AUSGeoid09_GDA94_V1.01_DOV_windows.gsb

ISO Geodetic Registry

Item class	OperationMethod
Name	**Geographic3D to GravityRelatedHeight (AUSGeoid v2)**
Item status	VALID
Identifier	83
Alias	AUSGeoid09
Data source	ISO Geodetic Registry
Remarks	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.
Formula	The AUSGeoid09 model of the Australian Height Datum

Operation parameters

Geoid (height correction) model file