

# ISO Geodetic Registry

<i>Item class</i>	Transformation	
<i>Name</i>	<b>NAD 83 (HARN) to NAVD88 - OHt [v3]</b>	
<i>Item status</i>	VALID	
<i>Identifier</i>	538	
<i>Alias</i>	GEOID99	
<i>Information source</i>	<i>Title</i>	National Geodetic Survey Geoid Homepage
	<i>Author</i>	National Geodetic Survey
	<i>Publisher</i>	National Oceanic and Atmospheric Administration (NOAA), National Geodetic Survey (NGS)
	<i>Revision date</i>	2017-04-16
	<i>Edition date</i>	
	<i>Other citation details</i>	Webpage for GEOID12B, GEOID09, GEOID06, GEOID03, GEOID99
<i>Data source</i>	ISO Geodetic Registry	
<i>Remarks</i>	Grid transformation	
<i>Operation version</i>	v3	
<i>Scope</i>	Spatial referencing	
<i>Operation accuracy</i>	0.05 m	
<i>Source CRS</i>	NAD 83 (HARN) - LatLonEht	
<i>Target CRS</i>	NAVD88 - OHt	
<i>Operation method</i>	Geographic3D to Gravity Related Height (US)	

## Extent

<i>Description</i>	<b>United States (USA) - onshore - CONUS north of 41°N and between 95°W and 78°W (Illinois, Indiana, Iowa, Michigan, Minnesota, New York, Ohio, Pennsylvania, Wisconsin).</b>	
<i>Geographic Bounding Box</i>	<i>West-bound longitude</i>	-95.0
	<i>North-bound latitude</i>	49.37
	<i>East-bound longitude</i>	-77.99
	<i>South-bound latitude</i>	41.0

## Operation parameter values

<i>Geoid (height correction) model file</i>	g1999u03.bin
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<i>Item class</i>	OperationMethod
<i>Name</i>	<b>Geographic3D to Gravity Related Height (US)</b>
<i>Item status</i>	VALID
<i>Identifier</i>	93
<i>Data source</i>	ISO Geodetic Registry
<i>Remarks</i>	Transformation of the vertical component of a Geographic 3D CRS to a Vertical CRS.

## Operation parameters

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