

# ISO Geodetic Registry

<i>Item class</i>	VerticalCRS	
<i>Name</i>	<b>NAVD88 - OHt</b>	
<i>Item status</i>	VALID	
<i>Identifier</i>	256	
<i>Alias</i>	North American Vertical Datum of 1988 height (m)	
<i>Information source</i>	<i>Title</i>	Affirmation of Vertical Datum for Surveying and Mapping Activities
	<i>Author</i>	US Government
	<i>Publisher</i>	Office of Federal Register, NARA
	<i>Publication date</i>	1993-06-24
	<i>Edition date</i>	1993-06-24
	<i>Series/Journal name</i>	Federal Register Notice
	<i>Issue identification</i>	Volume 58, No. 120, Document: 93-14922, Docket No. 930650-3150
	<i>Other citation details</i>	Mandates use of NAVD 88
	<i>Title</i>	Results of the General Adjustment of the North American Vertical Datum of 1988
	<i>Author</i>	D.B. Zilkoski, J.H. Richards, G.M. Young
<i>Information source</i>	<i>Publisher</i>	American Cobgress on Surveying and Mapping
	<i>Publication date</i>	1992-03-01
	<i>Edition date</i>	1992-03-01
	<i>Series/Journal name</i>	Surveying and Land Information Systems
	<i>Issue identification</i>	Volume 52, No. 3
	<i>Page</i>	133-149
	<i>Other citation details</i>	One of many NAVD 88 publiations. Nothing definitive was every written, but this is most cited
	<i>Title</i>	VERTCON User Manual
	<i>Author</i>	National Geodetic Survey
	<i>Publisher</i>	National Oceanic and Atmospheric Administration (NOAA), National Geodetic Survey (NGS)
<i>Information source</i>	<i>Publication date</i>	2003-09-29
	<i>Edition date</i>	2003-09-29
	<i>Other citation details</i>	NGS Online Readme File; Provides grids and usage of VERTCON for transformations between NGVD 29 and NAVD 88
	<i>Title</i>	Notice to Adopt a Standard Model for Mathematical Vertical Datum Transformations
	<i>Author</i>	US Government
	<i>Publisher</i>	Office of Federal Register, NARA
	<i>Publication date</i>	2007-07-11
	<i>Edition date</i>	2007-07-11
	<i>Series/Journal name</i>	Federal Register Notice
	<i>Issue identification</i>	Volume 72, No. 132, Document: 07-3377
<i>Information source</i>	<i>Page</i>	37732.0
	<i>Other citation details</i>	Mandates use of VERTCON for official transformations between datums
	<i>Data source</i>	ISO Geodetic Registry
	<i>Scope</i>	Spatial referencing
	<i>Datum</i>	North American Vertical Datum of 1988
	<i>Coordinate System</i>	Vertical CS. Axis: height (H). Orientation: up. UoM: m.

## Extent

<i>Description</i>	<b>United States (USA) - onshore - Alaska, CONUS (Alabama, Arizona, Arkansas, California,</b>
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**Colorado, Connecticut, Delaware, Florida, Georgia, Idaho, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Maine, Maryland, Massachusetts, Michigan, Minnesota, Mississippi, Missouri, Montana, Nebraska, Nevada, New Hampshire, New Jersey, New Mexico, New York, North Carolina, North Dakota, Ohio, Oklahoma, Oregon, Pennsylvania, Rhode Island, South Carolina, South Dakota, Tennessee, Texas, Utah, Vermont, Virginia, Washington, West Virginia, Wisconsin, Wyoming).**

*Geographic Bounding Box*

*West-bound longitude*

172.0

*North-bound latitude*

73.0

*East-bound longitude*

-66.0

*South-bound latitude*

24.0

# ISO Geodetic Registry

<i>Item class</i>	VerticalDatum	
<i>Name</i>	<b>North American Vertical Datum of 1988</b>	
<i>Item status</i>	VALID	
<i>Identifier</i>	193	
<i>Alias</i>	NAVD88	
<i>Information source</i>	<i>Title</i>	Affirmation of Vertical Datum for Surveying and Mapping Activities
	<i>Author</i>	US Government
	<i>Publisher</i>	Office of Federal Register, NARA
	<i>Publication date</i>	1993-06-24
	<i>Edition date</i>	1993-06-24
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<i>Information source</i>	<i>Publisher</i>	Office of Federal Register, NARA
	<i>Publication date</i>	2007-07-11
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	<i>Other citation details</i>	Mandates use of VERTCON for official transformations between datums
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	<i>Author</i>	D.B. Zilkoski, J.H. Richards, G.M. Young
	<i>Publisher</i>	American Cobgress on Surveying and Mapping
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	<i>Publication date</i>	2003-09-29
<i>Information source</i>	<i>Edition date</i>	2003-09-29
	<i>Other citation details</i>	NGS Online Readme File; Provides grids and usage of VERTCON for transformations between NGVD 29 and NAVD 88
<i>Data source</i>	ISO Geodetic Registry	
<i>Remarks</i>	Helmert orthometric heights.	
<i>Anchor definition</i>	North American Vertical Datum of 1988 (NAVD 88) consists of a leveling network on the North American Continent, ranging from Alaska, through Canada, across the United States, referenced to water levels at tide stations at Pointe-au-Pere (1970-1983) and Rimouski (1984-1988) in Canada. The station at Pointe-au-Pere was transferred to Rimouski in 1984. The station at Rimouski is the only one remaining as a reference for NAVD88.	
<i>Release date</i>	1993	

Scope	Spatial referencing
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Extent

Description	<b>United States (USA) - onshore - Alaska, CONUS (Alabama, Arizona, Arkansas, California, Colorado, Connecticut, Delaware, Florida, Georgia, Idaho, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Maine, Maryland, Massachusetts, Michigan, Minnesota, Mississippi, Missouri, Montana, Nebraska, Nevada, New Hampshire, New Jersey, New Mexico, New York, North Carolina, North Dakota, Ohio, Oklahoma, Oregon, Pennsylvania, Rhode Island, South Carolina, South Dakota, Tennessee, Texas, Utah, Vermont, Virginia, Washington, West Virginia, Wisconsin, Wyoming).</b>		
Geographic Bounding Box	West-bound longitude	172.0	
	North-bound latitude	73.0	
	East-bound longitude	-66.0	
	South-bound latitude	24.0	

# ISO Geodetic Registry

<i>Item class</i>	VerticalCS	
<i>Name</i>	<b>Vertical CS. Axis: height (H). Orientation: up. UoM: m.</b>	
<i>Item status</i>	VALID	
<i>Identifier</i>	42	
<i>Information source</i>	<i>Title</i>	ISO 19111 Geographical information - Spatial referencing by coordinates
	<i>Author</i>	International Organization for Standardization (ISO)
	<i>Publisher</i>	International Organization for Standardization (ISO)
	<i>Publication date</i>	2007-07-01
	<i>Edition</i>	Second Edition
	<i>Series/Journal name</i>	International Standard
	<i>Issue identification</i>	ISO 19111:2007
	<i>Data source</i>	ISO Geodetic Registry
<i>Remarks</i>	Used in vertical coordinate reference systems.	

## Axes

<i>Item class</i>	CoordinateSystemAxis	
<i>Name</i>	<b>Gravity-related height</b>	
<i>Item status</i>	VALID	
<i>Identifier</i>	35	
<i>Information source</i>	<i>Title</i>	ISO 19111 Geographical information - Spatial referencing by coordinates
	<i>Author</i>	International Organization for Standardization (ISO)
	<i>Publisher</i>	International Organization for Standardization (ISO)
	<i>Publication date</i>	2007-07-01
	<i>Edition</i>	Second Edition
	<i>Series/Journal name</i>	International Standard
	<i>Issue identification</i>	ISO 19111:2007
	<i>Data source</i>	ISO Geodetic Registry
<i>Remarks</i>	Used in a 1D vertical coordinate system.	
<i>Abbreviation</i>	H	
<i>Direction</i>	up	
<i>Unit</i>	metre	