

# ISO Geodetic Registry

<i>Item class</i>	VerticalCRS	
<i>Name</i>	<b>NGVD29 - NOHt</b>	
<i>Item status</i>	VALID	
<i>Identifier</i>	214	
<i>Alias</i>	National Geodetic Vertical Datum of 1929 height (ftUS), Sea Level Datum of 1928	
<i>Information source</i>	<i>Title</i>	National Vertical Control Network - Proposed Action
	<i>Author</i>	US Government
	<i>Publisher</i>	Office of Federal Register, NARA
	<i>Publication date</i>	1973-05-16
	<i>Edition date</i>	1973-05-16
	<i>Series/Journal name</i>	Federal Register Notice
	<i>Issue identification</i>	Volume 38, No. 94, Document 73-9694
	<i>Page</i>	12840.0
	<i>Other citation details</i>	Proposed use of NGVD 29 to replace SLD 29
	<i>Title</i>	Annual Report of the Director, United States Coast and Geodetic Survey to the Secretary of Commerce for the Fiscal Year Ended June 30, 1930
<i>Information source</i>	<i>Author</i>	US Government
	<i>Publisher</i>	Government Printing Office
	<i>Publication date</i>	1930-06-30
	<i>Edition date</i>	1930-06-30
	<i>Page</i>	33.0
	<i>Other citation details</i>	NGVD29
	<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>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>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>Page</i>	37732.0
<i>Information source</i>	<i>Other citation details</i>	Mandates use of VERTCON for official transformations between datums
	<i>Title</i>	National Vertical Control Network - Notice of Final Action
	<i>Author</i>	US Government
	<i>Publisher</i>	Office of Federal Register, NARA
	<i>Publication date</i>	1976-05-14
	<i>Edition date</i>	1976-05-17
	<i>Series/Journal name</i>	Federal Register Notice
	<i>Issue identification</i>	Volume 41, No. 96, Document 76-14245
	<i>Page</i>	20202.0
	<i>Other citation details</i>	Formally adopted usage of NGVD 29 as datum name

<i>Data source</i>	ISO Geodetic Registry
<i>Remarks</i>	Replaced by NAVD88 height (ft US) (CRS code 6360).
<i>Scope</i>	Spatial referencing
<i>Datum</i>	National Geodetic Vertical Datum of 1929
<i>Coordinate System</i>	Vertical CS. Axis: height (H). Orientation: up. UoM: ftUS.

## Extent

<i>Description</i>	<b>United States (USA) - onshore and offshore  - 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>		
<i>Geographic Bounding Box</i>	<i>West-bound longitude</i>	-135.0	
	<i>North-bound latitude</i>	50.0	
	<i>East-bound longitude</i>	-66.0	
	<i>South-bound latitude</i>	24.0	

# ISO Geodetic Registry

<i>Item class</i>	VerticalDatum	
<i>Name</i>	<b>National Geodetic Vertical Datum of 1929</b>	
<i>Item status</i>	VALID	
<i>Identifier</i>	117	
<i>Alias</i>	NGVD29	
<i>Alias</i>	Sea Level Datum of 1929	
<i>Information source</i>	<i>Title</i>	National Vertical Control Network - Proposed Action
	<i>Author</i>	US Government
	<i>Publisher</i>	Office of Federal Register, NARA
	<i>Publication date</i>	1973-05-16
	<i>Edition date</i>	1973-05-16
	<i>Series/Journal name</i>	Federal Register Notice
	<i>Issue identification</i>	Volume 38, No. 94, Document 73-9694
	<i>Page</i>	12840.0
	<i>Other citation details</i>	Proposed use of NGVD 29 to replace SLD 29
	<i>Title</i>	Notice to Adopt a Standard Model for Mathematical Vertical Datum Transformations
<i>Information source</i>	<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>Page</i>	37732.0
	<i>Other citation details</i>	Mandates use of VERTCON for official transformations between datums
	<i>Title</i>	VERTCON User Manual
	<i>Author</i>	National Geodetic Survey
<i>Information source</i>	<i>Publisher</i>	National Oceanic and Atmospheric Administration (NOAA), National Geodetic Survey (NGS)
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	<i>Other citation details</i>	NGS Online Readme File; Provides grids and usage of VERTCON for transformations between NGVD 29 and NAVD 88
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	<i>Page</i>	33.0
<i>Information source</i>	<i>Other citation details</i>	NGVD29
	<i>Title</i>	National Vertical Control Network - Notice of Final Action
	<i>Author</i>	US Government
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	<i>Series/Journal name</i>	Federal Register Notice
	<i>Issue identification</i>	Volume 41, No. 96, Document 76-14245
	<i>Page</i>	20202.0

	<i>Other citation details</i> Formally adopted usage of NGVD 29 as datum name
<i>Data source</i>	ISO Geodetic Registry
<i>Remarks</i>	Normal orthometric heights.
<i>Anchor definition</i>	The Sea Level Datum of 1929 was named the National Geodetic Vertical Datum of 1929 on May 10, 1973. The Sea Level Datum of 1929 is a vertical control datum in the United States by the general adjustment of 1929. Mean sea level was held fixed at the sites of 26 tide gauges, 21 in the United States and 5 in Canada. The datum is defined by the observed heights of mean sea level at the 26 tide gauges and by the set of elevations of all bench marks resulting from the adjustment. A total of 106,724 kilometers of leveling was involved, constituting 246 closed circuits and 25 circuits at sea level. The datum was not mean sea level, the geoid, or any other equipotential surface. Therefore, it was renamed in 1973, the National Geodetic Vertical Datum on 1929.
<i>Release date</i>	1929
<i>Scope</i>	Spatial referencing

## Extent

<i>Description</i>	<b>United States (USA) - onshore and offshore - 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>	
<i>Geographic Bounding Box</i>	<i>West-bound longitude</i>	-135.0
	<i>North-bound latitude</i>	50.0
	<i>East-bound longitude</i>	-66.0
	<i>South-bound latitude</i>	24.0

# ISO Geodetic Registry

<i>Item class</i>	VerticalCS	
<i>Name</i>	<b>Vertical CS. Axis: height (H). Orientation: up. UoM: ftUS.</b>	
<i>Item status</i>	VALID	
<i>Identifier</i>	41	
<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>Title</i>	Refinement of values for the yard and the pound
	<i>Author</i>	A.V. Astin, H.A. Karo
	<i>Publisher</i>	US National Bureau of Standards
<i>Information source</i>	<i>Publication date</i>	1959-07-01
	<i>Edition date</i>	
	<i>Series/Journal name</i>	Federal Register Notice
	<i>Issue identification</i>	Volume 24, Number 128, Document 59-5442
	<i>Page</i>	5348.0
	<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>	32	
<i>Information source</i>	<i>Title</i>	Refinement of values for the yard and the pound
	<i>Author</i>	A.V. Astin, H.A. Karo
	<i>Publisher</i>	US National Bureau of Standards
	<i>Publication date</i>	1959-07-01
	<i>Edition date</i>	
	<i>Series/Journal name</i>	Federal Register Notice
	<i>Issue identification</i>	Volume 24, Number 128, Document 59-5442
	<i>Page</i>	5348.0
	<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>	US survey foot	