

# ISO Geodetic Registry

<i>Item class</i>	VerticalCRS	
<i>Name</i>	<b>LT at Pago Pago - NOHt</b>	
<i>Item status</i>	VALID	
<i>Identifier</i>	741	
<i>Alias</i>	Mean Sea Level at Pago Pago	
<i>Alias</i>	MSL at Pago Pago	
<i>Information source</i>	<i>Title</i>	Supersession of Vertical Datum for Surveying and Mapping Activities for the Island of Tutuila, American Samoa
	<i>Author</i>	US Government
	<i>Publisher</i>	Office of Federal Register, NARA
	<i>Publication date</i>	2020-03-12
	<i>Edition</i>	
	<i>Edition date</i>	
	<i>Series/Journal name</i>	Federal Register Notice
	<i>Issue identification</i>	Volume 85, No. 49, Document 2020-05047
	<i>Page</i>	14466-14467
	<i>Other citation details</i>	Replacement of ASVD 02 with local mean sea level (MSL) datum at the Pago Pago tide gauge. <a href="https://www.govinfo.gov/content/pkg/FR-2020-03-12/pdf/FR-2020-03-12.pdf">https://www.govinfo.gov/content/pkg/FR-2020-03-12/pdf/FR-2020-03-12.pdf</a> (accessed 2020-11-08)
<i>Data source</i>	ISO Geodetic Registry	
<i>Remarks</i>	Adopted 2020. Replaces ASVD 02.	
<i>Scope</i>	Spatial referencing	
<i>Datum</i>	Local Tidal Datum at Pago Pago	
<i>Coordinate System</i>	Vertical CS. Axis: height (H). Orientation: up. UoM: m.	

## Extent

<i>Description</i>	<b>American Samoa - onshore - Tutuila.</b>	
<i>Geographic Bounding Box</i>	<i>West-bound longitude</i>	-171.0
	<i>North-bound latitude</i>	-14.0
	<i>East-bound longitude</i>	-170.0
	<i>South-bound latitude</i>	-14.5

# ISO Geodetic Registry

<i>Item class</i>	VerticalDatum	
<i>Name</i>	<b>Local Tidal Datum at Pago Pago</b>	
<i>Item status</i>	VALID	
<i>Identifier</i>	740	
<i>Alias</i>	Mean Sea Level at Pago Pago	
<i>Alias</i>	LT at Pago Pago	
<i>Alias</i>	MSL at Pago Pago	
<i>Information source</i>	<i>Title</i>	Supersession of Vertical Datum for Surveying and Mapping Activities for the Island of Tutuila, American Samoa
	<i>Author</i>	US Government
	<i>Publisher</i>	Office of Federal Register, NARA
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	<i>Page</i>	14466-14467
	<i>Other citation details</i>	Replacement of ASVD 02 with local Local Tidal (LT) datum at the Pago Pago tide gauge. <a href="https://www.govinfo.gov/content/pkg/FR-2020-03-12/pdf/FR-2020-03-12.pdf">https://www.govinfo.gov/content/pkg/FR-2020-03-12/pdf/FR-2020-03-12.pdf</a> (accessed 2020-11-08)
<i>Data source</i>	ISO Geodetic Registry	
<i>Remarks</i>	Replaces ASVD 02. The National Geodetic Survey (NGS), National Ocean Service (NOS), has determined that the bench marks providing geodetic control for ASVD 02 shifted as a result of movements from earthquakes. Additionally, the Primary Bench Mark (PBM) associated with ASVD 02 (177 0000 S) and the Pago Pago tide gauge itself was determined to be unstable and were destroyed. Consequently, the levelled bench marks and the datum point associated with ASVD 02 are no longer suitable for geodetic control. LT at Pago Pago is in interim datum and will eventually be replaced by the North American Geopotential Datum of 2022.	
<i>Anchor definition</i>	Local tidal (LT) datum based on mean sea level (MSL) at the Pago Pago tide gauge during the period 2011-2016. The datum is realized primarily by the National Water Levels Observation Network (NWLON) bench mark number 1770000 W with an orthometric height of 2.955 meters above the established LT datum at Pago Pago.	
<i>Release date</i>	2020-03-12	
<i>Coordinate Reference Epoch</i>	2013.5	
<i>Scope</i>	Spatial referencing	

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	<i>East-bound longitude</i>	-170.0
	<i>South-bound latitude</i>	-14.5

# 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	