# **ISO Geodetic Registry**

Item class VerticalCRS

Name LT at Pago Pago - NOHt

Item status VALID
Identifier 741

Alias Mean Sea Level at Pago Pago

Alias MSL at Pago Pago

Information source Title Supersession of Vertical Datum for Surveying

and Mapping Activities for the Island of Tutuila,

American Samoa

Author US Government

Publisher Office of Federal Register, NARA

Publication date 2020-03-12

Edition Edition date

Series/Journal name Federal Register Notice

Issue identification Volume 85, No. 49, Document 2020-05047

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Other citation details Replacement of ASVD 02 with local mean

sea level (MSL) datum at the Pago Pago tide gauge. https://www.govinfo.gov/content/pkg/FR-2020-03-12/pdf/FR-2020-03-12.pdf (accessed

2020-11-08)

Data source ISO Geodetic Registry

Remarks Adopted 2020. Replaces ASVD 02.

Scope Spatial referencing

Datum Local Tidal Datum at Pago Pago

Coordinate System Vertical CS. Axis: height (H). Orientation: up. UoM: m.

#### Extent

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

### ISO Geodetic Registry

Item class VerticalDatum

Name Local Tidal Datum at Pago Pago

Item status VALID
Identifier 740

Alias Mean Sea Level at Pago Pago

Alias LT at Pago Pago
Alias MSL at Pago Pago

Information source Title Supersession of Vertical Datum for Surveying

and Mapping Activities for the Island of Tutuila,

American Samoa

Author US Government

Publisher Office of Federal Register, NARA

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Series/Journal name Federal Register Notice

Issue identification Volume 85, No. 49, Document 2020-05047

Page 14466-14467

Other citation details Replacement of ASVD 02 with local Local Tidal

(LT) datum at the Pago Pago tide gauge. https://www.govinfo.gov/content/pkg/FR-2020-03-12/pdf/

FR-2020-03-12.pdf (accessed 2020-11-08)

Data source ISO Geodetic Registry

Remarks 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.

Anchor definition 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.

Release date 2020-03-12 Coordinate Reference Epoch 2013.5

Scope Spatial referencing

#### Extent

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

## ISO Geodetic Registry

Item class VerticalCS

Vertical CS. Axis: height (H). Orientation: up.

UoM: m.

Item status VALID
Identifier 42

Information source Title ISO 19111 Geographical information - Spatial

referencing by coordinates

Author International Organization for Standardization

(ISO)

Publisher International Organization for Standardization

(ISO)

Publication date 2007-07-01

Edition Second Edition

Series/Journal name International Standard

Issue identification ISO 19111:2007

Data source ISO Geodetic Registry

Remarks Used in vertical coordinate reference systems.

#### Axes

Item class CoordinateSystemAxis

Name Gravity-related height

Item statusVALIDIdentifier35

Information source Title ISO 19111 Geographical information - Spatial

referencing by coordinates

Author International Organization for Standardization

(ISO)

Publisher International Organization for Standardization

(ISO)

Publication date 2007-07-01

Edition Second Edition

Series/Journal name International Standard

Issue identification ISO 19111:2007

Data source ISO Geodetic Registry

Remarks Used in a 1D vertical coordinate system.

Abbreviation H
Direction up
Unit metre