ISO Geodetic Registry

Item class	VerticalCRS	
Name	**GUVD04 - NOHt**	
Item status	VALID	
Identifier	253	
Alias	Guam Vertical Datum of 2004	
Information source	*Title*	Development of Comprehensive Geodetic Vertical Datums for the United States Pacific Territories of American Samoa, Guam, and the Northern Marianas
	Author	E. Carlson, D. Doyle, D. Smith
	Publisher	American Congress on Surveying and Mapping
	Publication date	2009-01-01
	Edition date	2009-01-01
	Series/Journal name	Surveying and Land Information Systems
	Issue identification	Volume 69, No. 1
	Page	5-17
	Other citation details	ASVD02, GUVD04, NMVD03
Information source	*Title*	Affirmation of Vertical Datum for Surveying and Mapping Activities for Guam
	Author	US Government
	Publisher	Office of Federal Register, NARA
	Publication date	2009-01-22
	Edition date	2009-01-22
	Series/Journal name	Federal Register Notice
	Issue identification	Volume 74, No. 13, Document: E9-1182, Citation: 74 FR 3990
	Page	3990.0
	Other citation details	Mandates use of GUVD04
Data source	ISO Geodetic Registry	
Scope	Spatial referencing	
Datum	Guam Vertical Datum of 2004	
Coordinate System	Vertical CS. Axis: height (H). Orientation: up. UoM: m.	

Extent

Description	**Guam - onshore.**	
Geographic Bounding Box	*West-bound longitude*	143.0
	North-bound latitude	14.0
	East-bound longitude	146.0
	South-bound latitude	13.0

ISO Geodetic Registry

Item class	VerticalDatum	
Name	**Guam Vertical Datum of 2004**	
Item status	VALID	
Identifier	185	
Alias	GUVD04	
Information source	*Title*	Development of Comprehensive Geodetic Vertical Datums for the United States Pacific Territories of American Samoa, Guam, and the Northern Marianas
	Author	E. Carlson, D. Doyle, D. Smith
	Publisher	American Congress on Surveying and Mapping
	Publication date	2009-01-01
	Edition date	2009-01-01
	Series/Journal name	Surveying and Land Information Systems
	Issue identification	Volume 69, No. 1
	Page	5-17
	Other citation details	ASVD02, GUVD04, NMVD03
Information source	*Title*	Affirmation of Vertical Datum for Surveying and Mapping Activities for Guam
	Author	US Government
	Publisher	Office of Federal Register, NARA
	Publication date	2009-01-22
	Edition date	2009-01-22
	Series/Journal name	Federal Register Notice
	Issue identification	Volume 74, No. 13, Document: E9-1182, Citation: 74 FR 3990
	Page	3990.0
	Other citation details	Mandates use of GUVD04
Data source	ISO Geodetic Registry	
Remarks	Normal orthometric heights.	
Anchor definition	Guam Vertical Datum of 2004 (GUVD04) consists of a leveling network on the island of Guam affixed to a single origin point on the island: Tide Station 1630000, Apra Harbor, Guam (PID: TW0041, VM: 1684, Bench Mark: 163 0000 TIDAL 4, 2.170 m above LMSL). GUVD04 was affirmed as the official vertical datum in the National Spatial Reference System for the island of Guam by Federal Register Notice (2009), replacing all previous height systems for this region. The official defining document for that datum was published in 2009.	
Release date	2009	
Scope	Spatial referencing	

Extent

Description	**Guam - onshore.**	
Geographic Bounding Box	*West-bound longitude*	143.0
	North-bound latitude	14.0
	East-bound longitude	146.0
	South-bound latitude	13.0

ISO Geodetic Registry

Item class	VerticalCS	
Name	**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 status	VALID	
Identifier	35	
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	