ISO Geodetic Registry

Item class	VerticalCRS	
Name	**CGVD2013(CGG2013) - OHt**	
Item status	VALID	
Identifier	423	
Alias	Canadian Geodetic Vertical Datum of 2013 (Canadian Gravimetric Geoid of 2013)	
Information source	*Title*	Canadian Geodetic Vertical Datum of 2013
	Author	Judith Bosse
	Publisher	Government of Canada
	Publication date	2015-12-05
	Series/Journal name	Canada Gazette
	Issue identification	Part I, December 5, 2015
	Page	2587.0
Information source	*Title*	The Canadian Geodetic Vertical Datum of 2013 (CGVD2013)
	Author	M. Veronneau, J. Huang
	Publisher	Canadian Institute of Geomatics
	Publication date	2016
	Series/Journal name	Geomatica
	Issue identification	Volume 70, No. 1
	Page	9.0
Data source	ISO Geodetic Registry	
Scope	Spatial referencing	
Datum	Canadian Geodetic Vertical Datum of 2013 (Canadian Gravimetric Geoid of 2013)	
Coordinate System	Vertical CS. Axis: height (H). Orientation: up. UoM: m.	

Extent

Description	**Canada - onshore and offshore - Alberta, British Columbia, Manitoba, New Brunswick, Newfoundland and Labrador, Northwest Territories, Nova Scotia, Nunavut, Ontario, Prince Edward Island, Quebec, Saskatchewan, Yukon.**	
Geographic Bounding Box	*West-bound longitude*	-141.01
	North-bound latitude	90.0
	East-bound longitude	-47.74
	South-bound latitude	40.04

ISO Geodetic Registry

Item class	VerticalDatum	
Name	**Canadian Geodetic Vertical Datum of 2013 (Canadian Gravimetric Geoid of 2013)**	
Item status	VALID	
Identifier	118	
Alias	CGVD2013(CGG2013)	
Alias	CGVD2013	
Information source	*Title*	The Canadian Geodetic Vertical Datum of 2013 (CGVD2013)
	Author	M. Veronneau, J. Huang
	Publisher	Canadian Institute of Geomatics
	Publication date	2016
	Series/Journal name	Geomatica
	Issue identification	Volume 70, No. 1
	Page	9.0
Information source	*Title*	Canadian Geodetic Vertical Datum of 2013
	Author	Judith Bosse
	Publisher	Government of Canada
	Publication date	2015-12-05
	Series/Journal name	Canada Gazette
	Issue identification	Part I, December 5, 2015
	Page	2587.0
Data source	ISO Geodetic Registry	
Remarks	First realization of CGVD2013. Formally announced in the Canada Gazette on 2015-12-05. Replaces CGVD28. Replaced by CGVD2013(CGG2013a). Orthometric heights.	
Anchor definition	CGVD2013(CGG2013) is a gravimetric datum realized by the Canadian Gravimetric Geoid of 2013 (CGG2013), referenced to the NAD83(CSRS) v6 geodetic datum. The geoid-based datum is defined by the equipotential surface Wo=62,636,856.0 m*m/s/s, representing by convention the coastal mean sea level for North America. The definition and geopotential value comes from an agreement between Canada and the USA. The Canadian Gravimetric Geoid of 2013 (CGG2013) is the first realization of the CGVD2013 vertical datum. CGG2013 is defined at epoch 2011.0 and is considered static. It is available in both the NAD83(CSRS) and ITRF2008 geometric reference frames using the GRS80 ellipsoid, making it compatible with space-based positioning techniques. Heights in CGVD2013(CGVD2013) are orthometric and can be obtained from NAD83(CSRS) v6 or ITRF2008 ellipsoidal heights by subtracting the CGG2013 geoid height in either NAD83(CSRS) v6 or ITRF2008, respectively.	
Release date	2013-11-28	
Coordinate Reference Epoch	2011.0	
Scope	Spatial referencing	

Extent

Description	**Canada - onshore and offshore - Alberta, British Columbia, Manitoba, New Brunswick, Newfoundland and Labrador, Northwest Territories, Nova Scotia, Nunavut, Ontario, Prince Edward Island, Quebec, Saskatchewan, Yukon.**

Geographic Bounding Box	*West-bound longitude*	-141.01
	North-bound latitude	90.0
	East-bound longitude	-47.74
	South-bound latitude	40.04

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	