# **ISO Geodetic Registry**

Item class VerticalCRS

Name CGVD2013(CGG2013) - OHt

Item statusVALIDIdentifier423

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 ISO Geodetic Registry 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

Data source

Scope

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 spacebased 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	1
	North-bound latitude	90.0	
	East-bound longitude	-47.74	
	South-bound latitude	40.04	

# **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