## ISO Geodetic Registry

Item class VerticalDatum

Name Canadian Geodetic Vertical Datum of 2013

(Canadian Gravimetric Geoid of 2013a) Epoch

2010

Item status VALID Identifier 140

Alias CGVD2013(CGG2013a)

Alias Canadian Geodetic Vertical Datum of 2013 (Canadian Gravimetric

Geoid of 2013a)

Alias CGVD2013(CGG2013a) Epoch 2010

Alias CGG2013a

Alias CGVD2013 Epoch 2010

Alias CGVD2013

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

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Information source Title Canadian Gravimetric Geoid 2013 – Version A

(CGG2013a)

Author M. Veronneau, J. Huang

Publisher Geodetic Survey Division, Natural Resources

Canada, Government of Canada

Publication date 2015-11

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

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Data source ISO Geodetic Registry

Remarks Second realization of CGVD2013. Replaces CGVD2013(CGG2013).

Orthometric heights.

Anchor definition CGVD2013(CGG2013a) is a gravimetric datum realized by the

Canadian Gravimetric Geoid of 2013 Version A (CGG2013a),

referenced to the NAD83(CSRS) v6 geodetic datum at epoch 2010.0. 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 2013a (CGG2013a) is the

second realization of the CGVD2013 vertical datum 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(CGG2013a) are orthometric and can be obtained from NAD83(CSRS) v6 or ITRF2008 ellipsoidal heights by subtracting the

CGG2013a geoid height in either NAD83(CSRS) v6 or ITRF2008,

respectively.

Release date 2015

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 North-bound latitude	-141.01 90.0
	East-bound longitude South-bound latitude	-47.74 40.04