ISO Geodetic Registry

Item class Transformation

Name ITRF2008 to CGVD2013(CGG2013) - OHt [v1]

Item statusVALIDIdentifier686

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 Grid transformation from ITRF2008 ellipsoidal heights to

CGVD2013(CGG2013) orthometric heights using the CGG2013 geoid model upon which CGVD2013(CGG2013) is defined. Bi-linear interpolation of the grid file will give results agreeing to within 1cm

99.97% of the time.

Operation version v1

Scope Spatial referencing

Operation accuracy 0.03 m

Source CRS ITRF2008 - LatLonEHt
Target CRS CGVD2013(CGG2013) - OHt

Operation method Geographic3D to Gravity Related Height (Canada)

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,	
Geographic Bounding Box	Yukon. West-bound longitude North-bound latitude	-141.01
	East-bound longitude South-bound latitude	90.0 -47.74 40.04

Operation parameter values

Geoid (height correction) model file	CGG2013i08.byn	
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ISO Geodetic Registry

Item class OperationMethod

Name Geographic3D to Gravity Related Height

(Canada)

Item status VALID Identifier 89

Data source ISO Geodetic Registry

Remarks For consistency with earlier geoid models in Canada, reference

software for CGG2013 and CGG2013a uses bi-quadratic interpolation over nine grid nodes. The bi-linear interpolation is sufficient for most uses as the newer models have a higher spatial resolution. See

information source for file format documentation.

Formula The GPS Height Transformation (v2.0): An Ellipsoidal-CGVD28 Height

Transformation for Use With GPS in Canada

Operation parameters

Geoid (height correction) model file