

ISO Geodetic Registry

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|---------------------------|--|--|
| <i>Item class</i> | Transformation | |
| <i>Name</i> | NAD83(CSRS) v6 to CGVD2013(CGG2013a) Epoch 2010 - OHt [v1] | |
| <i>Item status</i> | VALID | |
| <i>Identifier</i> | 596 | |
| <i>Alias</i> | NAD83(CSRS) v6 to CGVD2013(CGG2013a) - OHt [v1] | |
| <i>Information source</i> | <i>Title</i> | The Canadian Geodetic Vertical Datum of 2013 (CGVD2013) |
| | <i>Author</i> | M. Veronneau, J. Huang |
| | <i>Publisher</i> | Canadian Institute of Geomatics |
| | <i>Publication date</i> | 2016 |
| | <i>Series/Journal name</i> | Geomatica |
| <i>Information source</i> | <i>Issue identification</i> | Volume 70, No. 1 |
| | <i>Page</i> | 9.0 |
| | <i>Title</i> | Canadian Gravimetric Geoid 2013 – Version A (CGG2013a) |
| | <i>Author</i> | M. Veronneau, J. Huang |
| | <i>Publisher</i> | Geodetic Survey Division, Natural Resources Canada, Government of Canada |
| <i>Data source</i> | <i>Publication date</i> | 2015-11 |
| | ISO Geodetic Registry | |
| <i>Remarks</i> | Grid transformation from NAD83(CSRS) v6 ellipsoidal heights at epoch 2010.0 to CGVD2013(CGG2013a) orthometric heights at epoch 2010.0 using the CGG2013a geoid model upon which CGVD2013(CGG2013a) is defined. Bi-linear interpolation of the grid file will give results agreeing to within 1cm 99.97% of the time. | |
| <i>Operation version</i> | v1 | |
| <i>Scope</i> | Spatial referencing | |
| <i>Operation accuracy</i> | 0.03 m | |
| <i>Source CRS</i> | NAD83(CSRS) v6 - LatLonEHt | |
| <i>Target CRS</i> | CGVD2013(CGG2013a) Epoch 2010 - OHt | |
| <i>Operation method</i> | Geographic3D to Gravity Related Height (Canada) | |

Extent

| | | |
|--------------------------------|--|---------|
| <i>Description</i> | 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. | |
| <i>Geographic Bounding Box</i> | <i>West-bound longitude</i> | -141.01 |
| | <i>North-bound latitude</i> | 90.0 |
| | <i>East-bound longitude</i> | -47.74 |
| | <i>South-bound latitude</i> | 40.04 |

Operation parameter values

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|---|-----------------|
| <i>Geoid (height correction) model file</i> | CGG2013an83.byn |
|---|-----------------|

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|--------------------|--|
| <i>Item class</i> | OperationMethod |
| <i>Name</i> | Geographic3D to Gravity Related Height (Canada) |
| <i>Item status</i> | VALID |
| <i>Identifier</i> | 89 |
| <i>Data source</i> | ISO Geodetic Registry |
| <i>Remarks</i> | 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. |
| <i>Formula</i> | The GPS Height Transformation (v2.0): An Ellipsoidal-CGVD28 Height Transformation for Use With GPS in Canada |

Operation parameters

Geoid (height correction) model file