

ISO Geodetic Registry

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|---------------------------|---|---|
| <i>Item class</i> | Transformation | |
| <i>Name</i> | CGVD28 to CGVD2013(CGG2013a) epoch 2002 [v1] | |
| <i>Item status</i> | VALID | |
| <i>Identifier</i> | 976 | |
| <i>Information source</i> | <i>Title</i> | GPS-H |
| | <i>Author</i> | Canadian Geodetic Survey |
| | <i>Publisher</i> | Geodetic Survey Division, Natural Resources Canada, Government of Canada |
| | <i>Revision date</i> | 2021-03-15 |
| | <i>Other citation details</i> | Website: https://webapp.geod.nrcan.gc.ca/geod/tools-outils/gpsh.php |
| <i>Information source</i> | <i>Title</i> | Height Transformation version 2.0 (HTv2.0), Epochs 2002.0 and 2010.0 |
| | <i>Author</i> | M. Veronneau |
| | <i>Publisher</i> | Geodetic Survey Division, Natural Resources Canada, Government of Canada |
| | <i>Publication date</i> | 2019 |
| | <i>Series/Journal name</i> | Internal Report |
| <i>Information source</i> | <i>Title</i> | Geoid Models |
| | <i>Author</i> | Canadian Geodetic Survey |
| | <i>Publisher</i> | Geodetic Survey Division, Natural Resources Canada, Government of Canada |
| | <i>Revision date</i> | 2021-12-07 |
| | <i>Other citation details</i> | Website: https://webapp.geod.nrcan.gc.ca/geod/data-donnees/geoid.php?locale=en (accessed 2022-01-21). |
| <i>Information source</i> | <i>Title</i> | Referencing and Time Tagging Heights in Canada |
| | <i>Author</i> | M. Veronneau |
| | <i>Publisher</i> | Geodetic Survey Division, Natural Resources Canada, Government of Canada |
| | <i>Publication date</i> | 2018 |
| | <i>Series/Journal name</i> | Internal Report |
| <i>Data source</i> | ISO Geodetic Registry | |
| <i>Remarks</i> | Grid transformation from CGVD28 normal orthometric heights to CGVD2013(CGG2013a) orthometric heights at epoch 2002.0. 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> | 0.05 m | |
| <i>Source CRS</i> | CGVD28 - NOHt | |
| <i>Target CRS</i> | CGVD2013(CGG2013a) epoch 2002 - OHt | |
| <i>Operation method</i> | Gravity-related height transformation (Canada) | |

Extent

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| <i>Description</i> | Canada - onshore - Alberta, British Columbia, Manitoba south of 57°N, New Brunswick, Northwest Territories south west of a line between 60°N, 110°W and the coast at 132°W, |
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Nova Scotia, Ontario south of 52°N, Prince Edward Island, Quebec - mainland west of 66°W and south of 55°N, Saskatchewan south of 55°N, Yukon.

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|--------------------------------|-----------------------------|---------|
| <i>Geographic Bounding Box</i> | <i>West-bound longitude</i> | -141.01 |
| | <i>North-bound latitude</i> | 69.8 |
| | <i>East-bound longitude</i> | -59.73 |
| | <i>South-bound latitude</i> | 41.67 |

Operation parameter values

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| <i>Geoid (height correction) model file</i> | HT2_2002v70_CGG2013a.byn |
| <i>ISOGP code for Interpolation CRS</i> | 320.0 unity |

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|--------------------|---|
| <i>Item class</i> | OperationMethod |
| <i>Name</i> | Gravity-related height transformation (Canada) |
| <i>Item status</i> | VALID |
| <i>Identifier</i> | 962 |
| <i>Alias</i> | GPS-H |
| <i>Data source</i> | ISO Geodetic Registry |
| <i>Remarks</i> | Transforms gravity-related heights between CGVD28 and CGVD2013(CGG2013a) vertical datums using GPS-H software with coordinate epoch propagation and bi-quadratic interpolation of a grid of geoid model differences. See information sources for algorithm and file format documentation. |

Operation parameters

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| <i>Geoid model difference file</i> |
| <i>ISOGR code for Interpolation CRS</i> |