ISO Geodetic Registry

VerticalCRS Item class

Name CGVD28 - NOHt

Item status **VALID** Identifier 323

Alias GSC Datum

Alias Canadian Vertical Datum of 1928

Alias Canadian Geodetic Vertical Datum of 1928

Alias CGVD28

Alias Canadian Geodetic Datum

Alias CVD28

Information source Title Recent adjustments of the precise level net of

Canada

Author J.B. Canon

Publisher Department of the Interior, Dominion of Canada,

Ottawa

Publication date 1935

Information source Title Adjustment of the precise level net of Canada

1928

Author J.B. Canon

Department of the Interior, Dominion of Canada, Publisher

Ottawa

Publication date 1928 ISO Geodetic Registry

Data source Scope Spatial referencing

Canadian Geodetic Vertical Datum of 1928 Datum

Coordinate System Vertical CS. Axis: height (H). Orientation: up. UoM: m.

Extent

Description	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, 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.	
Geographic Bounding Box	West-bound longitude	-141.01
	North-bound latitude	69.8
	East-bound longitude	-59.73
	South-bound latitude	41.67

ISO Geodetic Registry

Item class VerticalDatum

Name Canadian Geodetic Vertical Datum of 1928

Item statusVALIDIdentifier102

Alias GSC Datum

Alias Canadian Vertical Datum of 1928

Alias CGVD28

Alias Canadian Geodetic Datum

Alias CVD28

Information source Title Adjustment of the precise level net of Canada

1928

Author J.B. Canon

Publisher Department of the Interior, Dominion of Canada,

Ottawa

Publication date 1928

Information source Title Recent adjustments of the precise level net of

Canada

Author J.B. Canon

Publisher Department of the Interior, Dominion of Canada,

Ottawa

Publication date 1935

Data source ISO Geodetic Registry

Remarks Adopted by Federal Order in Council in 1935. Replaced by CGVD2013

November 2013. Normal orthometric heights.

Anchor definition CGVD28 is a levelling-based vertical datum based on mean sea level

determined at five tidal gauges in Yarmouth and Halifax on the Atlantic Ocean, Pointe-au-Père on the St-Lawrence River, and Vancouver and Prince-Rupert on the Pacific Ocean. The definition also includes an elevation at a bench mark in Rouses Point, NY (next to Lake Champlain), accepted as fixed by the United States and Canada in 1925. The datum was propagated inland from the tide gauges using geodetic levelling measurements. The vertical datum is accessible through some 94,000 bench marks anchored to the ground and stable structures. Heights in CGVD28 are normal-orthometric based on

normal gravity.

Release date 1928

Scope Spatial referencing

Extent

Description 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, 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.

Geographic Bounding Box West-bound longitude -141.01

North-bound latitude 69.8 East-bound longitude -59.73

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.

AbbreviationHDirectionupUnitmetre