ISO Geodetic Registry

Item class GeodeticDatum

North American Datum of 1983 (CSRS) version

8

Item statusVALIDIdentifier991

Alias North American Datum 1983 v8

Alias Canadian Spatial Reference System 1998

Alias NAD83

Alias NAD83(CSRS)
Alias NAD83v8

Alias NAD83(CSRS)v8
Alias NAD83(CSRS98)

Alias CSRS98

Alias Canadian Spatial Reference System

Alias CSRS

Information source Title The Canadian Spatial Reference System (CSRS)

Author Canadian Geodetic Survey

Publisher Canadian Geodetic Survey, Surveyor General Branch, Lands and Minerals Sector, Natural

Resources Canada, Government of Canada

Revision date 2021-04-09

Other citation details Web page: http://www.nrcan.gc.ca/earth-

sciences/geomatics/geodetic-referencesystems/9052 (accessed 2023-06-04)

Information source Title National & International Reference Frames

Author M. Craymer

Publisher Canadian Geodetic Survey, Surveyor General

Branch, Lands and Minerals Sector, Natural Resources Canada, Government of Canada

Publication date 2023-05-10

Series/Journal name Presentation to Canadian Geodetic Reference

Systems Committee Meeting, Ottawa, May 10-12,

2023

Data source ISO Geodetic Registry

Remarks Adopted by the Canadian federal government for Canada. Replaces

NAD83(CSRS) v7.

Anchor definition Realization of the North American Datum of 1983 for the Canadian

Spatial Reference System, referred to as CSRS98 or CSRS. The frame is defined by a time-dependent seven parameter transformation of ITRF2020 3D geocentric Cartesian coordinates and velocities for Canadian and bordering US and Greenland areas at reference epoch 2010.0. The frame is kept aligned to North America at other epochs using the NNR-NUVEL-1A estimate of three Cartesian rotation rates of change representing the tectonic plate motion of North America. The origin, scale and orientation of the frame are nominally defined to be

that for the BIH Terrestrial System 1984 (BTS84).

Release date 2022-11-27
Coordinate Reference Epoch 2010.0

Scope Spatial referencing

Ellipsoid GRS 1980
Prime Meridian Greenwich

Extent

Description Canada - onshore and offshore British Columbia, Manitoba, None Newfoundland and Labrador, I Territories, Nova Scotia, Nuna Prince Edward Island, Quebec Yukon.	
West-bound longitude	-141.01 90.0
East-bound longitude	-47.74 40.04
	British Columbia, Manite Newfoundland and Labr Territories, Nova Scotia Prince Edward Island, Q Yukon. West-bound longitude North-bound latitude

ISO Geodetic Registry

Item class Ellipsoid

Name GRS 1980

Item status VALID Identifier 27

Alias Geodetic Reference System 1980

Alias GRS1980
Alias IAG GRS80

Alias International 1979

Alias GRS80

Information source Title Geodetic Reference System 1980

Author H. Moritz

Publisher Springer International Publishing

Publication date 2003-03

Series/Journal name Journal of Geodesy Issue identification Volume 74, No. 1

Page 128–162

Information source Title Geodetic Reference System 1980

Author H. Moritz

Publisher International Association of Geodesy

Publication date 1984

Series/Journal name Bulletin Geodesique Issue identification Volume 58, No. 3

Page 395-405

Data source ISO Geodetic Registry

Remarks Adopted by IUGG 1979 Canberra. Inverse flattening is derived from

geocentric gravitational constant GM = 3986005e8 m*m*m/s/s, dynamic form factor J2 = 108263e-8 and Earth's angular velocity =

7292115e-11 rad/s.

 Semi-major axis
 6378137.0 m

 Inverse flattening
 298.257222101 m

ISO Geodetic Registry

Item class PrimeMeridian

Name Greenwich

Item status VALID
Identifier 25

Alias Zero meridian

Information source Title Why the Greenwich meridian moved

Author S. Malys, J.H. Seago, N.K. Pavlis, P.K.

Seidelmann, G.H. Kaplan

Publisher Springer International Publishing

Publication date 2015-12

Series/Journal name Journal of Geodesy Issue identification Volume 89, No. 12

Page 1263–1272

Information source Title IERS Conventions (2010)

Author G. Petit, B.J. Luzum (eds)

Publisher Verlag des Bundesamts fur Kartographie und

Geodasie

Publication date 2010

Edition date

Series/Journal name IERS Technical Notes

Issue identification 36.0

Other citation details ISSN: 1019-4568

Data source ISO Geodetic Registry

Greenwich longitude 0.0 °