ISO Geodetic Registry

Item class	Transformation	
Name	**NAD83(CSRS) v7 to NAD 83 (2011) [v1]**	
Item status	VALID	
Identifier	1037	
Information source	*Title*	Coordinate Transformations
	Author	Canadian Geodetic Survey
	Publisher	Canadian Geodetic Survey, Surveyor General Branch, Lands and Minerals Sector, Natural Resources Canada, Government of Canada
	Revision date	2022-04-29
	Other citation details	Web page: https://webapp.csrs-scrs.nrcan-rncan.gc.ca/geod/data-donnees/transformations.php (accessed 2024-02-25)
Information source	*Title*	HTDP User Guide (Software Version 3.5.0)
	Author	M. Dennis, J. Saleh, R. Snay, C. Pearson
	Publisher	National Geodetc Survey (NGS), National Oceanic and Atmospheric Administration (NOAA)
	Revision date	2022-12-01
	Other citation details	Web page: https://geodesy.noaa.gov/TOOLS/Htdp/HTDP-user-guide.pdf (accessed 2024-02-25)
Data source	ISO Geodetic Registry	
Remarks	Null transformation. NAD83(CSRS) v7 and NAD 83 (2011) are equivalent by definition at epoch 2010.	
Operation version	v1	
Scope	Spatial referencing.	
Operation accuracy	0.0 m	
Source CRS	NAD83(CSRS) v7 - XYZ	
Target CRS	NAD 83 (2011) Epoch 2010 - XYZ	
Operation method	Position Vector Transformation (geocentric Cartesian domain)	

Extent

Description	**North America - onshore and offshore: Canada - Alberta, British Columbia, Manitoba, New Brunswick, Newfoundland and Labrador, Northwest Territories, Nova Scotia, Nunavut, Ontario, Prince Edward Island, Quebec, Saskatchewan, Yukon. Puerto Rico. United States (USA) - Alaska, CONUS (Alabama, Arizona, Arkansas, California, Colorado, Connecticut, Delaware, Florida, Georgia, Idaho, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Maine, Maryland, Massachusetts, Michigan, Minnesota, Mississippi, Missouri, Montana, Nebraska, Nevada, New Hampshire, New Jersey, New Mexico, New York, North Carolina, North Dakota, Ohio, Oklahoma,**

	Oregon, Pennsylvania, Rhode Island, South Carolina, South Dakota, Tennessee, Texas, Utah, Vermont, Virginia, Washington, West Virginia, Wisconsin, Wyoming). Virgin Islands (US).	
Geographic Bounding Box	*West-bound longitude*	167.65
	North-bound latitude	86.46
	East-bound longitude	-47.74
	South-bound latitude	14.92

Operation parameter values

X-axis translation	0.0 metre
Y-axis translation	0.0 metre
Z-axis translation	0.0 metre
X-axis rotation	0.0 milliarc-second
Y-axis rotation	0.0 milliarc-second
Z-axis rotation	0.0 milliarc-second
Scale difference	0.0 parts per billion

ISO Geodetic Registry

Item class	OperationMethod
Name	**Position Vector Transformation (geocentric Cartesian domain)**
Item status	VALID
Identifier	88
Alias	7-Parameter Transformation
Alias	Bursa-Wolf Transformation
Alias	Position Vector Transformation
Alias	Helmert Transformation
Data source	ISO Geodetic Registry
Remarks	This method is a specific case of the Molodensky-Badekas (PV) method in which the evaluation point is the geocentre with coordinate values of zero. Note the analogy with the Coordinate Frame Transformation method but beware of the differences!
Formula	Geomatics Guidance Note No 7, part 2: Coordinate Conversions and Transformations including Formulas

Operation parameters

X-axis translation
Y-axis translation
Z-axis translation
X-axis rotation
Y-axis rotation
Z-axis rotation
Scale difference