ISO Geodetic Registry

Item class	GeodeticCRS	
Name	**NAD27 - LatLon**	
Item status	VALID	
Identifier	246	
Alias	NAD27	
Alias	NAD27(74)	
Alias	North American Datum of 1927	
Alias	Sea Level Datum of 1927	
Information source	*Title*	NADCON 5.0: Geometric Transformation Tool for points in the National Spatial Reference System
	Author	D. Smith, A. Bilich
	Publisher	NOAA's National Geodetic Survey
	Publication date	2017-03-27
	Edition date	2017-03-27
	Series/Journal name	NGS Technical Report
	Other citation details	Replaces version 4.2 and all earlier. Provides gridding algorithm, datum transformations, and extents of covnversion grids.
Information source	*Title*	Notice to Adopt Standard Method for Horizontal Datum Transformation
	Author	US Government
	Publisher	Office of Federal Register, NARA
	Publication date	1990-08-10
	Edition date	1990-08-10
	Series/Journal name	Federal Register Notice
	Issue identification	Volume 55, No. 155, Document: 00-18809
	Page	32681.0
	Other citation details	Mandates use of NADCON for official transformations between datums
Data source	ISO Geodetic Registry	
Scope	Spatial referencing	
Datum	North American Datum of 1927	
Coordinate System	Ellipsoidal 2D CS. Axes: latitude, longitude. Orientations: north, east. UoM: degree	

Extent

Description	**North and Central America: Antigua and Barbuda - onshore. Bahamas onshore plus offshore internal continental shelf only. Belize - onshore. 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. Cuba - onshore and offshore. El Salvador - onshore. Guatemala - onshore. Honduras - onshore. Puerto Rico - onshore. Mexico - onshore**

	plus offshore Gulf of Mexico. Nicaragua - onshore. United States (USA) – onshore and offshore - 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 (British) - onshore. Virgin Islands (US) - onshore and offshore.	
Geographic Bounding Box	*West-bound longitude*	167.65
	North-bound latitude	83.17
	East-bound longitude	-47.74
	South-bound latitude	7.98

ISO Geodetic Registry

Item class	GeodeticDatum	
Name	**North American Datum of 1927**	
Item status	VALID	
Identifier	104	
Alias	NAD27(74)	
Alias	NAD27	
Information source	*Title*	NADCON 5.0: Geometric Transformation Tool for points in the National Spatial Reference System
	Author	D. Smith, A. Bilich
	Publisher	NOAA's National Geodetic Survey
	Publication date	2017-03-27
	Edition date	2017-03-27
	Series/Journal name	NGS Technical Report
	Other citation details	Replaces version 4.2 and all earlier. Provides gridding algorithm, datum transformations, and extents of covnversion grids.
Information source	*Title*	Annual Report of the Superintendent of the Coast and Geodetic Survey for fiscal year ended June 30, 1927
	Author	Coast and Geodetic Survey
	Publisher	Coast and Geodetic Survey
	Publication date	1927
Information source	*Title*	Notice to Adopt Standard Method for Horizontal Datum Transformation
	Author	US Government
	Publisher	Office of Federal Register, NARA
	Publication date	1990-08-10
	Edition date	1990-08-10
	Series/Journal name	Federal Register Notice
	Issue identification	Volume 55, No. 155, Document: 00-18809
	Page	32681.0
	Other citation details	Mandates use of NADCON for official transformations between datums
Information source	*Title*	Annual Report of the Director, United States Coast and Geodetic Survey to the Secretary of Commerce for the Fiscal Year Ended June 30, 1930
	Author	US Government
	Publisher	Government Printing Office
	Publication date	1930-06-30
	Edition date	1930-06-30
	Page	33.0
	Other citation details	NGVD29
Data source	ISO Geodetic Registry	
Remarks	Replaced by NAD27(76) in Ontario, CGQ77 in Quebec, Mexican Datum of 1993 in Mexico, NAD83(1986) in Canada (excl. Ontario & Quebec) & USA.	
Anchor definition	Fundamental point: Meade's Ranch. Latitude: 39°13'26.686"N, longitude: 98°32'30.506"W (of Greenwich). Note: this CRS includes longitudes which are POSITIVE EAST.	
Release date	1927-01-01	
Scope	Spatial referencing	
Ellipsoid	Clarke 1866	
Prime Meridian	Greenwich	

Extent

Description	**North and Central America: Antigua and Barbuda - onshore. Bahamas onshore plus offshore internal continental shelf only. Belize - onshore. 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. Cuba - onshore and offshore. El Salvador - onshore. Guatemala - onshore. Honduras - onshore. Puerto Rico - onshore. Mexico - onshore plus offshore Gulf of Mexico. Nicaragua - onshore. United States (USA) – onshore and offshore - 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 (British) - onshore. Virgin Islands (US) - onshore and offshore.**	
Geographic Bounding Box	*West-bound longitude*	167.65
	North-bound latitude	83.17
	East-bound longitude	-47.74
	South-bound latitude	7.98

ISO Geodetic Registry

Item class	Ellipsoid	
Name	**Clarke 1866**	
Item status	VALID	
Identifier	28	
Information source	*Title*	Annual Report of the Superintendent of the Coast and Geodetic Survey for fiscal year ended June 30, 1927
	Author	Coast and Geodetic Survey
	Publisher	Coast and Geodetic Survey
	Publication date	1927
Information source	*Title*	Universal Transverse Mercator Grid Tables For Latitudes 0°-80° Clarke 1866 Spheroid (Meters) Volume II
	Author	U.S. Army Map Service
	Publisher	U.S. Army Map Service
	Publication date	1958-07
	Series/Journal name	Technical Manual
	Issue identification	TM 5-241-4/2
Information source	*Title*	Transformation of grid coordinates
	Author	U.S. Army Map Service
	Publisher	U.S. Army Map Service
	Publication date	1944
	Series/Journal name	Army Map Services Bulletin
	Issue identification	7.0
Information source	*Title*	Annual Report of the Director, United States Coast and Geodetic Survey to the Secretary of Commerce for the Fiscal Year Ended June 30, 1930
	Author	US Government
	Publisher	Government Printing Office
	Publication date	1930-06-30
	Edition date	1930-06-30
	Page	33.0
	Other citation details	NGVD29
Information source	*Title*	Grids and Grid References
	Author	Department of the Army
	Publisher	Headquarters, Department of the Army, Washington, DC
	Publication date	1967-06-07
	Series/Journal name	Department of the Army Technical Manual
	Issue identification	TM 5-241-1
Information source	*Title*	Universal transverse mercator grid tables. Clarke 1866 (Technical Manual nos. 7, 21, 37), Clarke 1880 (nos. 9, 48), Everest (nos. 11, 49), Bessel (nos. 8, 39), International (no. 6) spheroids
	Author	U.S. Army Map Service
	Publisher	U.S. Army Map Service
	Publication date	1951
Data source	ISO Geodetic Registry	
Remarks	Original definition a=20926062 and b=20855121 (British) feet. Uses Clarke's 1865 inch-metre ratio of 39.370432 to obtain metres. Metric value then converted to US survey feet for use in the US and international feet for use in Cayman Islands.	
Semi-major axis	6378206.4 m	
Semi-minor axis	6356583.8 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 °	

ISO Geodetic Registry

Item class	EllipsoidalCS	
Name	**Ellipsoidal 2D CS. Axes: latitude, longitude. Orientations: north, east. UoM: degree**	
Item status	VALID	
Identifier	43	
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 geographic 2D coordinate reference systems. Coordinates referenced to this CS are in degrees. Any degree representation (e.g. DMSH, decimal, etc.) may be used but that used must be declared for the user by the supplier of data.	

Axes

Item class	CoordinateSystemAxis	
Name	**Geodetic latitude**	
Item status	VALID	
Identifier	38	
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 geographic 2D and geographic 3D coordinate reference systems.	
Abbreviation	Lat	
Direction	north	
Unit	degree (supplier to define representation)	

Item class	CoordinateSystemAxis	
Name	**Geodetic longitude**	
Item status	VALID	
Identifier	34	
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 geographic 2D and geographic 3D coordinate reference systems.	
Abbreviation	Lon	
Direction	east	
Unit	degree (supplier to define representation)	