ISO Geodetic Registry

Item class	GeodeticDatum	
Name	**Average Terrestrial System of 1977**	
Item status	VALID	
Identifier	200	
Alias	ATS77	
Information source	*Title*	The selection and implementation of a new spatial reference system for Canada's Maritime provinces
	Author	D. Gillis, A. Hamilton, R.J. Gaudet, J. Ramsay, B. Seely, S. Blackie, A. Flemming, C. Carlin, S. Bernard, L.G. LeBlanc
	Publisher	Canadian Institute of Geomatics
	Publication date	2000
	Series/Journal name	Geomatica
	Issue identification	Volume 54, No. 1
	Page	25-41
Information source	*Title*	The Evolution of Nova Scotia's Spatial Referencing System from its Origins until 2012
	Author	J. Bond, W. Robertson
	Publisher	Canadian Institute of Geomatics
	Publication date	2015
	Series/Journal name	Geomatica
	Issue identification	Volume 69, No. 4
	Page	407-418
Information source	*Title*	A spatial referencing policy for the Province of Nova Scotia: Policy Document
	Author	GeoNOVA Reference Coordinate System Policy Node
	Publisher	GeoNOVA, Service Nova Scotia and Municipal Relations
	Publication date	2006-01
Data source	ISO Geodetic Registry	
Remarks	In use from 1979. Replaced by NAD83(CSRS)v2.	
Anchor definition	ATS77 is a geocentric coordinate system defined by the Canadian Geodetic Survey in 1977 for the Maritime provinces. It is a conceptualization of a conventional terrestrial reference system using the ATS77 reference ellipsoid. The ATS77 reference frame was realized by a set of coordinates in the ATS77 system. The coordinates were obtained from the 1979 Maritime Redefinition and Readjustment of the combined three provincial geodetic networks then in existence, using an October 1977 first-order federal network adjustment as constraints. ATS77 is now known to be offset from the true geocenter by about 5 m.	
Release date	1977	
Scope	Spatial referencing	
Ellipsoid	Average Terrestrial System 1977	
Prime Meridian	Greenwich	

Extent

Description	**Canada - onshore and offshore - Maritimes (New Brunswick, Nova Scotia, Prince Edward Island).**

Geographic Bounding Box	*West-bound longitude*	-69.05
	North-bound latitude	48.07
	East-bound longitude	-63.7
	South-bound latitude	44.56

ISO Geodetic Registry

Item class	Ellipsoid	
Name	**Average Terrestrial System 1977**	
Item status	VALID	
Identifier	26	
Alias	ATS77	
Information source	*Title*	The selection and implementation of a new spatial reference system for Canada's Maritime provinces
	Author	D. Gillis, A. Hamilton, R.J. Gaudet, J. Ramsay, B. Seely, S. Blackie, A. Flemming, C. Carlin, S. Bernard, L.G. LeBlanc
	Publisher	Canadian Institute of Geomatics
	Publication date	2000
	Series/Journal name	Geomatica
	Issue identification	Volume 54, No. 1
	Page	25-41
Information source	*Title*	New Brunswick Control Monument Database Information: Explanation of Fields and Glossary of Terms
	Author	Service New Brunswick
	Publisher	Service New Brunswick, Government of New Brunswick
	Publication date	2002-04-23
Data source	ISO Geodetic Registry	
Semi-major axis	6378135.0 m	
Inverse flattening	298.257 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 °	