

SITE INFORMATION

Revised 1/8/98

Current Site Name: Yellowknife
Other Site Name:
Location: Yellowknife, Northwest Territory, Canada
Site Number: 408
Geographic Region: North America
Tectonic Plate: North American

General Site Description: The site is located about 150 meters north-northwest of a transport Canada receiving antenna, 400 meters northwest of the Energy, Mines and Resources Geophysical Laboratory and 2 km northwest of the control tower of the Yellowknife airport. The observing monument is near the highest point of an outcrop near the edge of an open sandy area. A gravel pad has been prepared to accommodate the mobile VLBI systems. The new site is 1.8 km NW of the main entrance to airport terminal along highway 3, 1.1 km from the highway past the entrance to the golf course. Station is a brass tab epoxied into a drill hole in bedrock, 0.595 meters below the surface of a concrete pad under MV-1. Other systems located at the site include a DORIS beacon, a permanent GPS receiver, a seismometer, and a magnetometer.

Geological Province: Precambrian slave province

Local Geology: Outcrop of precambrian basement; biotite granodiorite, granite, and allied rock of early precambrian age

Site Topo Map: MCE 327, edition 2, 1981, 1:25,000 topographic military city map series a902. Available from Canada Map Office, Department of Energy, Mines and Resources, Ottawa.

CONTACT INFORMATION

Site Ownership: Canada
Site Management: Geodetic Survey Division
Natural Resources Canada (NRCan)
Address: 615 Booth Street
Ottawa K1A 0E9
CANADA

Contact Person: Mr. Mario Berube (Monument 7285, DOMES No. 40127M001)
(Monument 7296, DOMES No. 40127M004)

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Contact Person: Mr Robert Duval (Monument ?, DOMES No. 40127M003)
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MONUMENT INFORMATION

Revised 1/8/98

Current Site Name: Yellowknife
Location: Yellowknife, Northwest Territory, Canada
Site Number: 408
Number of Observing Monuments: 2
Surveyed into National Network? Yes

Monument Number: 7285
Type of Monument: Canadian bronze disk set in bedrock outcrop
Monument Inscription: LBI 829098
Systems using Monument: Mobile VLBI

Latitude: N 62° 28' 45.67448"
Longitude: W 114° 28' 20.58360"
Elevation: 203.923 meters
Height above Ellipsoid: 176.843 meters
Geodetic Coordinate Source/Date: Geodetic Survey of Canada / 20-May-92

Geodetic Coordinate Datum/Ellipsoid: IERS ITRF94 (1993)
Elevation Datum:
Source of Monument Geodetic Survey Ties:
Comments: Preliminary values

Differential Coordinates

Monument Number	Monument Inscription	X	Y	Z
7296	909012	-274.9222	257.4310	64.9133
—	LAKE 829097	149.363	-97.470	-12.352
—	LOW S829100	7.646	85.411	45.586
—	TEE 829099	-193.609	87.504	4.560

MONUMENT INFORMATION

As of 1/8/98

Current Site Name: Yellowknife
Location: Yellowknife, Northwest Territory, Canada
Site Number: 408

Monument Number: 7296
Type of Monument: Canadian bronze disk set in bedrock outcrop
Monument Inscription: LBI 909012
Systems using Monument: Mobile VLBI

Latitude: N 62° 28' 50.09195"
Longitude: W 114° 28' 45.49449"
Elevation: 205.862 meters
Height above Ellipsoid: 178.782 meters
Geodetic Coordinate Source/Date: Geodetic Survey of Canada / 20-May-92

Geodetic Coordinate Datum/Ellipsoid: IERS ITRF94 (1993)
Elevation Datum
Source of Monument Geodetic Survey Ties
Comments: Preliminary values

SITE SKETCH

Current Site Name: Yellowknife
Location: Yellowknife, Northwest Territory, Canada
Site Number: 408

OCCUPATION HISTORY

Revised 1/8/98

Current Site Name: Yellowknife
Location: Yellowknife, Northwest Territory, Canada
Site Number: 408

SLR Occupations

Monument Number	Occupying System	Occupation Designator	Starting Date	Ending Date
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No Previous Occupations

VLBI Occupations

Monument Number	Occupying System	Occupation Designator	Starting Date	Ending Date
7285	MV-3	72855301	11-Aug-84	15-Aug-84
7285	MV-3	72855302	28-Aug-85	29-Aug-85
7296	MV-1	72965101	01-Jan-91	-----

GPS Occupations

Monument Name	Starting Date	Ending Date	Network
YELL	01-Jan-91	-----	IGS

Footprint Surveys

Survey	Starting Date	Source
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No footprint surveys were completed. See the station description notes for geodetic ties to other local geodetic stations.