

**GeoBC  
BRITISH COLUMBIA ACTIVE CONTROL SYSTEM**

GNSS ACTIVE CONTROL POINT as of 2018/12/03

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STATION: BCMR  
GEODETTIC MARK: 909333  
FULL NAME: BCACS - Maple Ridge ACP  
CLASS: BCACS Primary  
LOCATION: Maple Ridge, B.C., Canada

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- 2015/08/11 (Date of Observations)

MARKER COORDINATES: Latitude n49 13 16.14380  
Longitude w122 32 18.66576  
Hybrid Ellipsoid Height 73.778 m\*  
Orthometric Height 92.043 m

- 2005/06/17 OBSOLETE

MARKER COORDINATES: ~~Latitude n49 13 16.14380~~  
~~Longitude w122 32 18.66576~~  
~~Ellipsoid Height 73.77~~  
~~Orthometric Height 92.040~~

\*Hybrid Ellipsoid Heights are derived by adding the HTMVBC00\_Abb separation (N) to the levelling-derived orthometric heights. I.e. they are not derived from GNSS observations and are therefore not true ellipsoid heights.

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- 2018/11/01

GEODETTIC ATTRIBUTES: Datum/Ellipsoid = NAD83(CSRS) 4.0.0.BC.1.GVRD  
Geoid Model = HTMVBC00\_Abb  
N = -18.265m  
xi = -12.3s  
eta = -9.8s

- 2005/06/17 OBSOLETE

GEODETTIC ATTRIBUTES: ~~Datum/Ellipsoid = NAD83(CSRS) 4.0.0.BC.1.GVRD~~  
~~Geoid Model = GVRD00~~  
~~N = -18.27~~  
~~xi = -12.29s~~  
~~eta = -9.85s~~

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REFERENCE NETWORKS:

Inner: nil

Outer:

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COLLOCATION TIES:

- nil

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ANTENNA HEIGHT: > vertical distance measured to antenna reference point

- 2004/09/30 00:00UT 0.000m

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GNSS RECEIVER:

- 2011/09/26 23:45UT Leica GR10 s/n 1700624  
(used for RINEX as of 2012/01/27)  
- 2004/09/30 15:00UT Trimble NetRS s/n 4437237705

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FIRMWARE:

- 2011/09/26 23:45UT Firmware ver. 1.1  
- 2011/01/21 01:00UT Firmware ver. 1.3.0  
- 2005/04/28 00:00UT Firmware ver. 1.13  
- 2004/09/30 15:00UT Firmware ver. 1.03

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ANTENNA (diagram below):

- 2011/09/28 0:00UT LEIAR25 LEIT s/n 725205  
- 2004/09/30 15:00UT Trimble Choke Ring w/radome (TRM29659.00)  
s/n 0220335629

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ANTENNA CABLE:

- 2004/09/30 00:00UT

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CLOCK:

- 2004/09/30 00:00UT GPS Receiver Internal Clock

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MODEMS: - N/A

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UNINTERRUPTABLE POWER SUPPLY:

- 2004/09/30

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STATUS:

- 2004/09/30      00:00UT      Operational

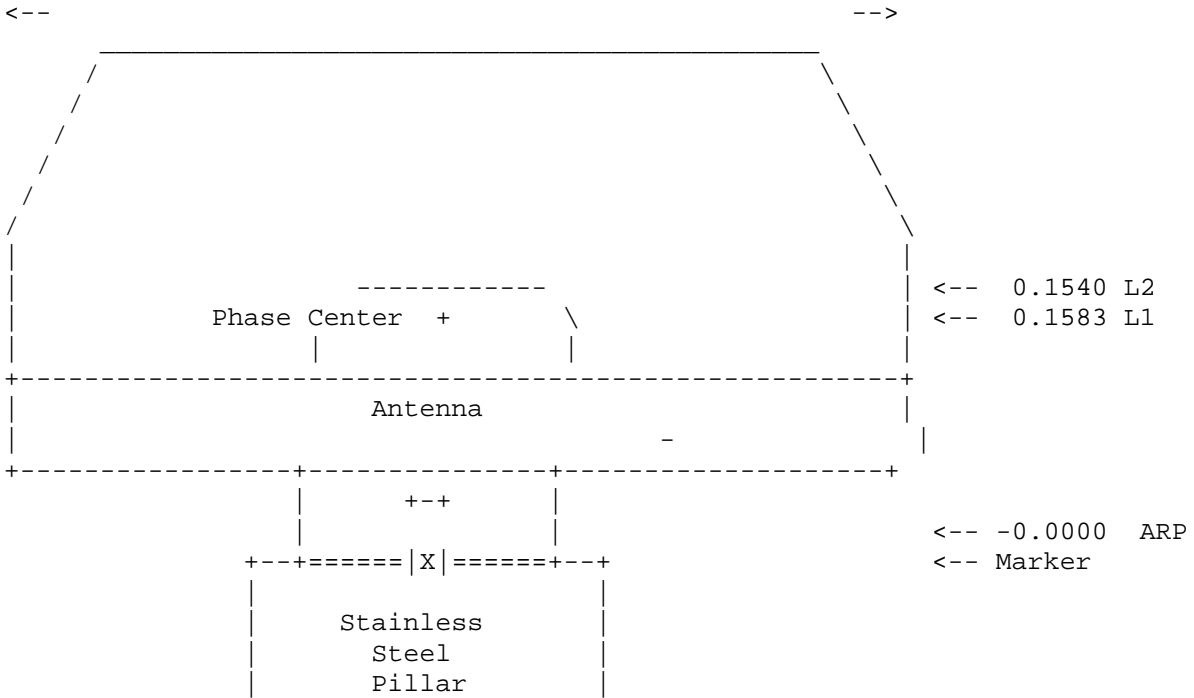
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AGENCY:      Province of British Columbia  
              GeoBC  
              3400 Davidson Ave.  
              Victoria, BC, Canada V8Z 3P8  
              email: GeoBCinfo@gov.bc.ca

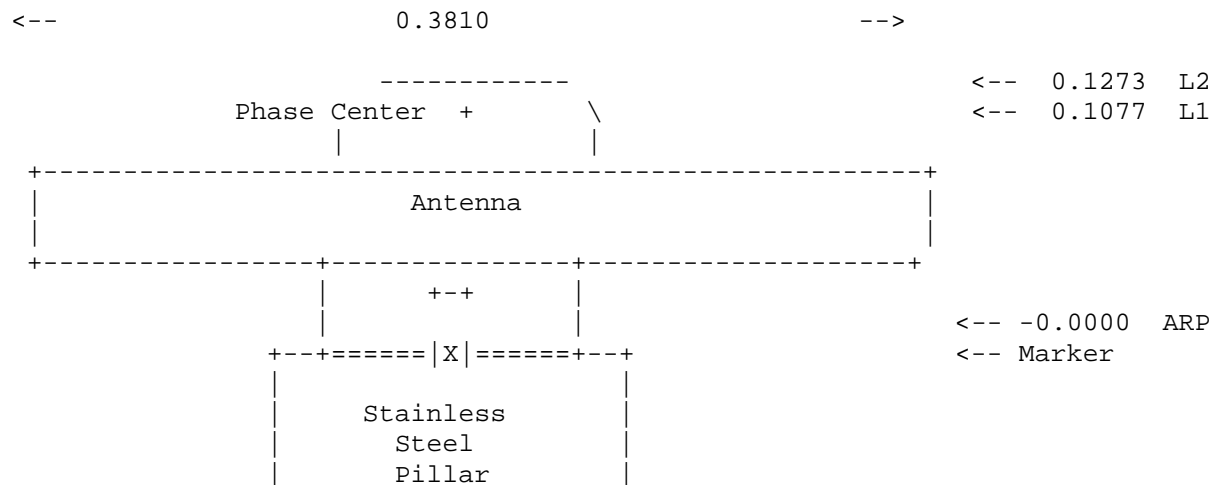
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ANTENNA DIAGRAM:

2011/09/26 Leica AR25 w/ Leica dome (LEIAR25 LEIT)



- 2004/09/30 Dorne Margolin Trimble Choke Ring (NGS TRM29659.00)



Marker - X

ACRONYMS:

ACP ... Active Control Point

ARP ... Antenna Reference Point

BCACS ... British Columbia Active Control System

GVRD00 ... Height Transformation Model for CGVD28, Metro Vancouver Regional District (formerly referred to as the Greater Vancouver Regional District)

HTMVBC00\_Abb ... Height Transformation Model for CGVD28, Metro Vancouver Regional District and Abbotsford

NAD83 ... North American Datum 1983

NAD83(CSRS) 4.0.0.BC.1.GVRD ... NAD83, Canadian Spatial Reference System, Version 4, Epoch 2002, British Columbia, Metro Vancouver

RINEX ... Receiver Independent Exchange Format

WGS84 ... World Geodetic System 1984