

GeoBC
BRITISH COLUMBIA ACTIVE CONTROL SYSTEM

GNSS ACTIVE CONTROL POINT as of 2018/12/03

STATION: BCSF
GEODETIC MARK: 898734
FULL NAME: BCACS - Surrey Firehall #2 ACP
CLASS: BCACS Primary
LOCATION: Surrey, B.C., Canada

- 2015/08/11 (Date of Observations)

MARKER COORDINATES: Latitude n 49 11 31.49655
Longitude w 122 51 36.24849
Hybrid Ellipsoid Height 83.741 m*
Orthometric Height 102.787 m

- 2005/06/17 OBSOLETE

MARKER COORDINATES: ~~Latitude n 49 11 31.49655~~
~~Longitude w 122 51 36.24849~~
~~Ellipsoid Height 83.735~~
~~Orthometric Height 102.785~~

- 2005/04/05 OBSOLETE

MARKER COORDINATES: ~~Latitude n 49 11 31.49655~~
~~Longitude w 122 51 36.248488~~
~~Ellipsoid Height 83.739~~
~~Orthometric Height 102.785~~

*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.

- 2018/11/01

GEODETIC ATTRIBUTES: Datum/Ellipsoid = NAD83(CSRS) 4.0.0.BC.1.GVRD
Geoid Model = HTMVBC00_Abb
N = -19.046m
xi = -9.0s
eta = -3.0s

2005/06/17 OBSOLETE

GEODETIC ATTRIBUTES: Datum/Ellipsoid = ~~NAD83(CSRG) 4.0.0.BC.1.GVRD~~
Geoid Model = ~~CVRD00~~
N = ~~19.05m~~
xi = ~~8.95s~~
eta = ~~3.06s~~

- 2005/04/05 OBSOLETE

GEODETIC ATTRIBUTES: Datum/Ellipsoid = ~~NAD83/WGS 84~~
Geoid Model = ~~HTGVRDBC00~~
N = ~~19.046~~
xi = ~~10.37s~~
eta = ~~3.25s~~

REFERENCE NETWORKS:

Inner: nil

Outer:

COLLOCATION TIES:

- nil

ANTENNA HEIGHT: > vertical distance measured to antenna reference point

- 2004/09/28 00:00UT 0.000m

GNSS RECEIVER:

- 2011/09/28 21:00UT Leica GR10 s/n 1700652
(used for RINEX as of 2012/01/27)
- 2004/09/28 15:00UT Trimble NetRS s/n#4432236947

FIRMWARE:

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

ANTENNA (diagram below):

- 2011/09/28 21:00UT LEIAR25 LEIT s/n 10461017
- 2004/09/28 15:00UT Trimble Choke Ring w/Radome (TRM29659.00)
sn#0220335636

ANTENNA CABLE:

- 2004/09/28 00:00UT

CLOCK:

- 2004/09/28 00:00UT GPS Receiver Internal Clock

MODEMS:

- N/A

UNINTERRUPTABLE POWER SUPPLY:

- 2004/09/28

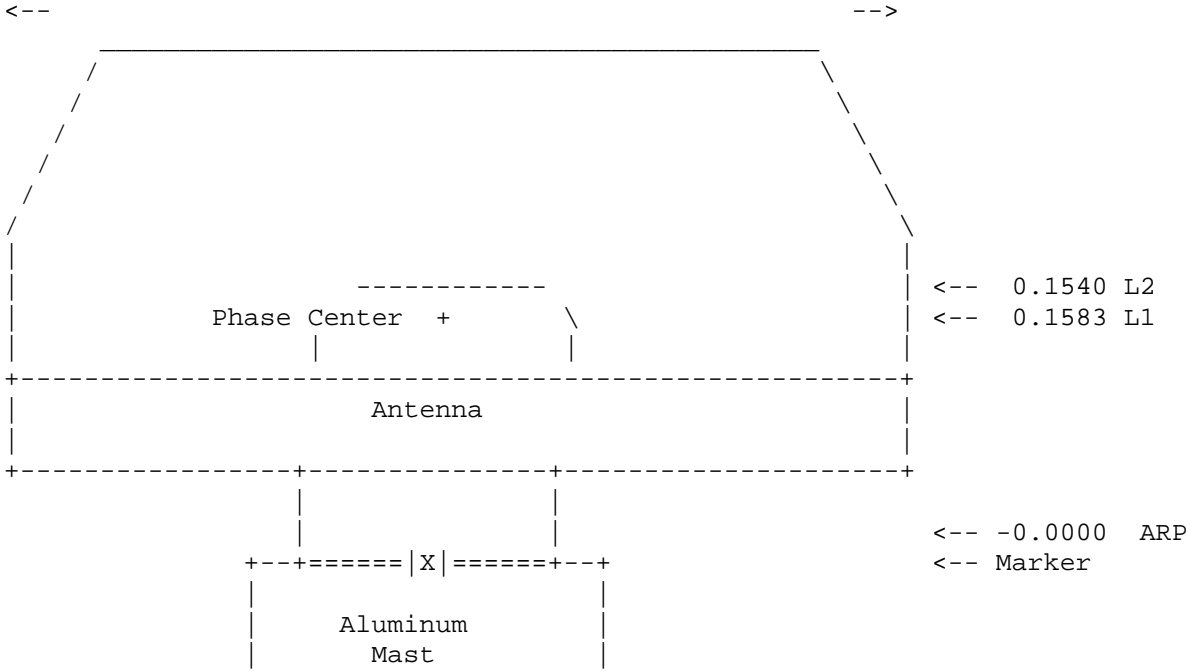
STATUS:

- 2004/09/28 00:00UT Operational

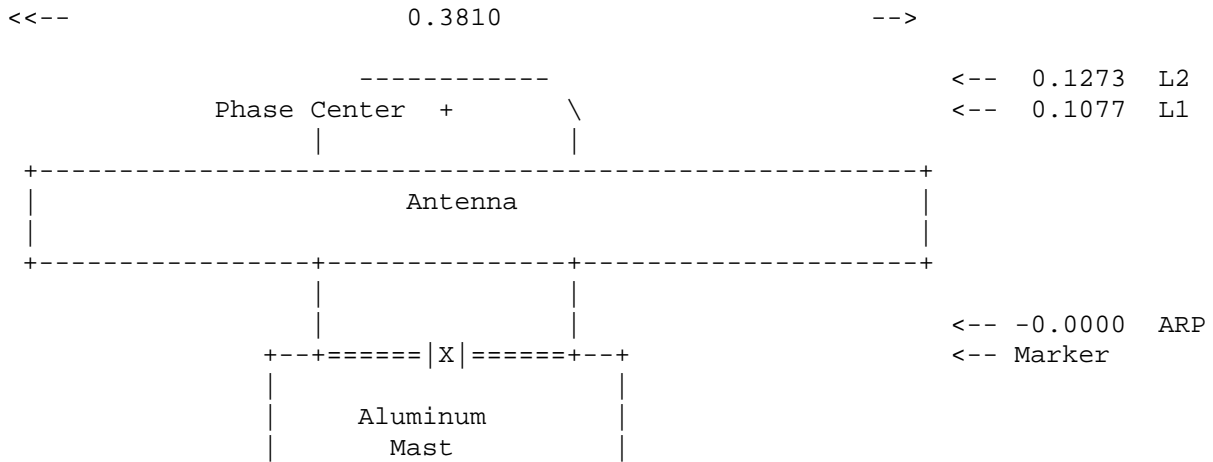
AGENCY: Province of British Columbia
GeoBC
3400 Davidson Ave.
Victoria, BC, Canada V8Z 3P8
email: GeoBCinfo@gov.bc.ca

ANTENNA DIAGRAM:

2011/09/28 Leica AR25 w/ Leica dome (LEIAR25 LEIT)



- 2004/09/28 Dorne Margolin Trimble Choke Ring w/radome (NGS TRM29659.00 UNAV)



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