

**GeoBC and NR Sector Data Services
BRITISH COLUMBIA ACTIVE CONTROL SYSTEM**

GNSS ACTIVE CONTROL POINT as of 2024/05/23

STATION: BCWA
GEODETIC MARK: 700484
FULL NAME: BCACS - Williams Lake Airport ACP
CLASS: BCACS Primary
LOCATION: Williams Lake, B.C., Canada

The station is located at the Williams Lake airport. The antenna is mounted on a pillar approximately 190m NE of the terminal building.

This site is operational as of 2008/04/23

- 2007/06/11

MARKER COORDINATES: Latitude N 52 11 14.71005
Longitude W 122 03 51.84322
Hybrid Ellipsoid Height (HEH) 927.352m*
Orthometric Height 941.452m

GEODETIC ATTRIBUTES: Datum/Ellipsoid = NAD83(CSRs) 4.0.0.BC.1
Geoid Model = HTV2.0 (1997.0)
N = -14.10
xi = -1.4s
eta = -1.7s

*The Hybrid Ellipsoid Height was derived by adding the HTV2.0 separation (N) to the levelling-derived orthometric height. It is not a true GNSS-derived ellipsoid height. BCACS, since inception, was designed for optimal compatibility with orthometric heights in the surrounding passive control networks.

REFERENCE NETWORKS:

Inner: 430959, 327536, 70870, 778241

Outer: COLLOCATION TIES:

- nil

ANTENNA HEIGHT: > vertical distance measured to antenna reference point

- 2008/04/23 00:00UT 0.100m

GNSS RECEIVER:

- 2024/05/23 10:00UT Septentrio POLARX5 sn 3079560
- 2024/02/08 23:10UT Septentrio POLARX5 sn 3079614
- 2023/10/05 20:00UT Septentrio POLARX5 sn 3080020
- 2010/02/18 00:00UT Leica GRX1200 +GNSS sn 495163
- 2008/04/23 00:00UT Leica GRX1200 PRO GG sn 351081

FIRMWARE:

- 2023/10/05	20:00UT	Firmware 5.5.0
- 2015/06/18	13:06UT	Firmware 9.20 / ME 6.404
- 2013/11/06	15:37UT	Firmware 8.71 / ME 6.112
- 2012/05/02	17:50UT	Firmware 8.51 / ME 4.007
- 2011/08/31	16:50UT	Firmware 8.20 / ME 4.007
- 2011/02/21	17:50UT	Firmware 8.10 / ME 4.007
- 2011/01/01	20:30UT	Firmware 8.01
- 2010/09/01	20:30UT	Firmware 8.0
- 2010/07/12	20:00UT	Firmware 7.80
- 2010/02/18	00:00UT	Firmware 7.53
- 2009/04/28	17:00UT	Firmware 7.50
- 2008/10/31	15:00UT	Firmware 6.00
- 2008/04/23	00:00UT	Firmware 5.60

ANTENNA (diagram below):

- 2013/10/22	17:00UT	Leica AR25 w/ Leica Dome sn9040019
- 2008/04/23	00:00UT	Leica Choke Ring - GLONASS with LEIS Dome sn 200009

ANTENNA CABLE:

- 2013/11/06	00:16UT	200m LMR600-DB
- 2008/04/23	00:00UT	190m FSJ4-50B Superflex

CLOCK:

- 2023/10/05	20:00UT	GNSS Receiver Internal Clock
- 2008/04/23	00:00UT	GPS Receiver Internal Clock

COMPUTER HARDWARE:

- N/A

MODEMS:

- 2008/04/23	00:00UT	N/A
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UNINTERRUPTABLE POWER SUPPLY:

- 2024/05/23	22:00UT	Meanwell
- 2008/04/23	00:00UT	APC

STATUS:

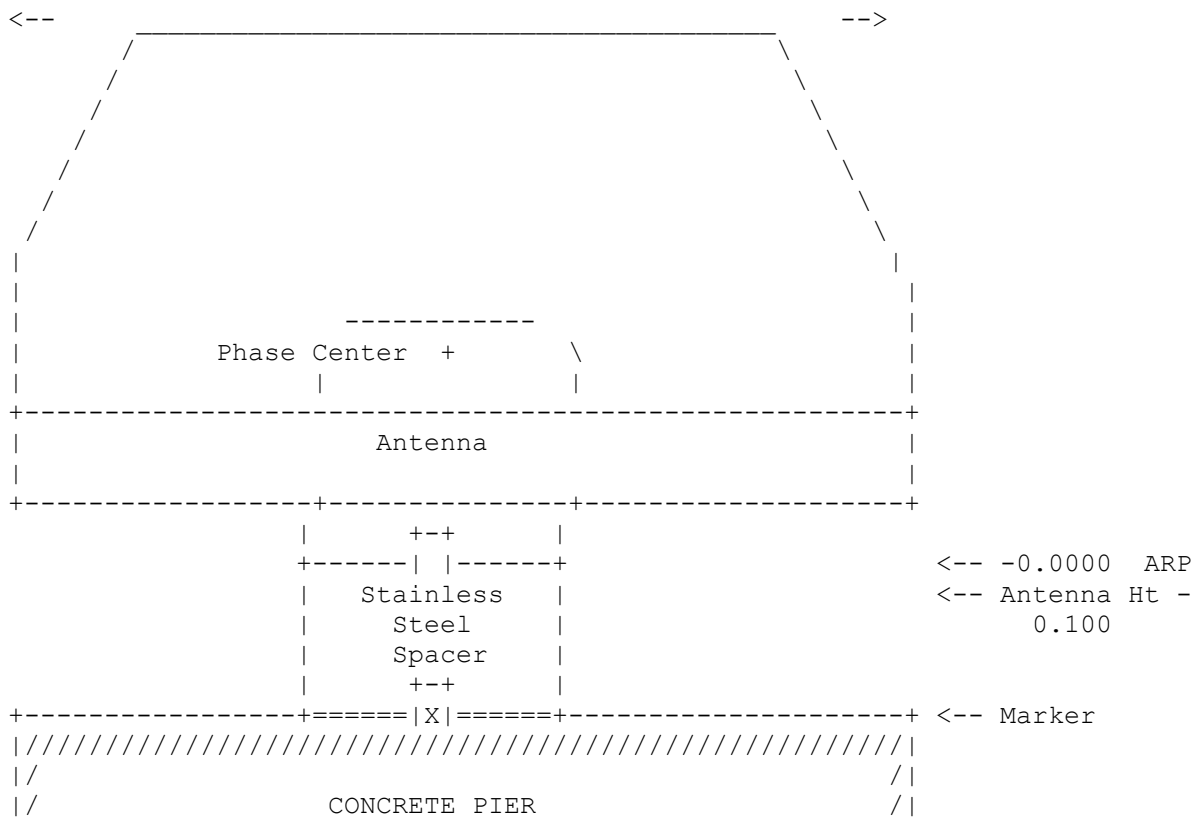
- 2008/04/23	00:00UT	Operational
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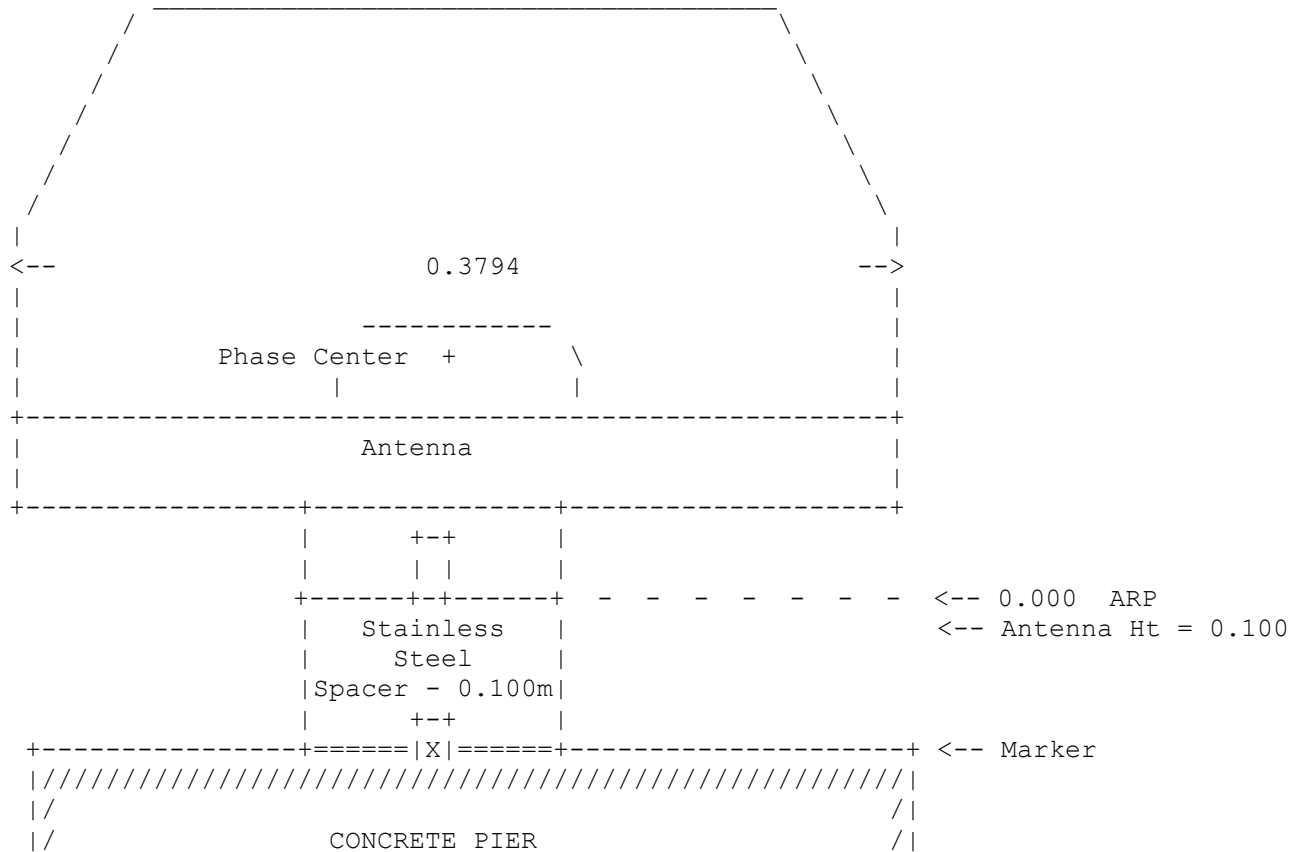
AGENCY: GeoBC and NR Sector Data Services
 Natural Resource Information & Digital Services Division
 Ministry of Water, Land and Resource Stewardship

CONTACT: Foundational Information and Technology Branch
 3400 Davidson Ave.
 Victoria, BC, Canada V8Z 3P8
 email: GeoBCinfo@gov.bc.ca

ANTENNA DIAGRAM:

2013/10/22 Leica AR25 w/ Leica dome (AR25 LEIT)





ACRONYMS

- ACP ... Active Control Point
- ARP ... Antenna Reference Point
- BCACS ... British Columbia Active Control System
- GNSS ... Global Navigation Satellite System
- HEH ... Hybrid Ellipsoid Height
- HTV2.0 (1997.0) ... Height Transformation Model Version 2.0 Epoch 1997.0
- N ... geoid-ellipsoid separation
- NAD83(CSRs) 4.0.0.BC.1... North American Datum 1983, Canadian Spatial Reference System, Version 4, Epoch 2002, British Columbia