

GeoBC
BRITISH COLUMBIA ACTIVE CONTROL SYSTEM

GNSS ACTIVE CONTROL POINT as of 2018/03/06

STATION: BCFJ
GEODETIC MARK: 981274
FULL NAME: BCACS - Fort St. John ACP
CLASS: BCACS Primary
LOCATION: Fort St. John, B.C., Canada

Installed on stainless steel pillar at Fort St. John airport

- 2006/08/03

MARKER COORDINATES: Latitude n56 14 46.33764
Longitude w120 44 57.66731
Ellipsoid Height 677.314 m
Orthometric Height 691.594 m

GEODETIC ATTRIBUTES: Datum/Ellipsoid = NAD83(CSRS) 4.0.0.BC.1
Geoid Model = HTV2.0
N = -14.28
xi = -1.67"
eta = 3.81"

- 2005/02/11 OBSOLETE

MARKER COORDINATES: ~~Latitude n56 14 46.337553~~
~~Longitude w120 44 57.667797~~
~~Ellipsoid Height 677.412~~
~~Orthometric Height 691.594~~

GEODETIC ATTRIBUTES: ~~Datum/Ellipsoid = NAD83/WGS 84~~
~~Geoid Model = HT97~~
~~N = -14.182~~
~~xi =~~
~~eta =~~

REFERENCE NETWORKS:
Inner: 160648, 564989, 586586

Outer:

COLLOCATION TIES:
- nil

ANTENNA HEIGHT: > vertical distance measured to antenna reference point

- 2018/03/06	00:00UT	0.003m
- 2005/02/11	00:00UT	0.000m

GNSS RECEIVER:

- 2018/03/06	18:00UT	Leica GR50 s/n 1870626
- 2007/12/07	17:30UT	Leica GRX1200Pro GG s/n 351093
- 2005/02/11	00:00UT	Leica RS500 s/n# 80255

FIRMWARE:

- 2018/03/06	18:00UT	Firmware 4.11.606
- 2015/06/18	03:49UT	Firmware 9.20 / ME 6.404
- 2013/11/06	15:15UT	Firmware 8.71 / ME 3.822
- 2012/05/03	15:40UT	Firmware 8.51 / ME 3.019
- 2011/09/08	15:20UT	Firmware 8.20 / ME 3.019
- 2011/02/22	16:00UT	Firmware 8.10 / ME 3.019
- 2010/09/09	14:24UT	Firmware 8.0
- 2010/05/05	18:30UT	Firmware 7.80
- 2009/05/05	14:00UT	Firmware 7.50
- 2008/10/31	15:00UT	Firmware 6.00
- 2007/12/07	17:30UT	Firmware 5.60
- 2005/02/11	00:00UT	Firmware 5.00

ANTENNA (diagram below):

- 2018/03/06	18:00UT	Leica AR20 w/LEIM Dome s/n 20262005
- 2007/12/07	00:00UT	Leica AT504GG Choke Ring w/LEIS Dome sn 200308
- 2005/02/11	00:00UT	Leica AT504 Choke Ring with LEIS Dome sn 845

ANTENNA CABLE:

- 2005/02/11	00:00UT	LMR600	175m	N-Type Male both ends
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CLOCK:

- 2018/03/06	18:00UT	Internal Receiver Clock
- 2005/02/11	00:00UT	GPS Receiver Internal Clock

COMPUTER HARDWARE:

- 2005/02/11	00:00UT	N/A
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MODEMS:

- 2007/12/07 N/A
- 2005/02/11 Lantronix MSS100

UNINTERRUPTABLE POWER SUPPLY:

- 2005/02/11 00:00UT APC

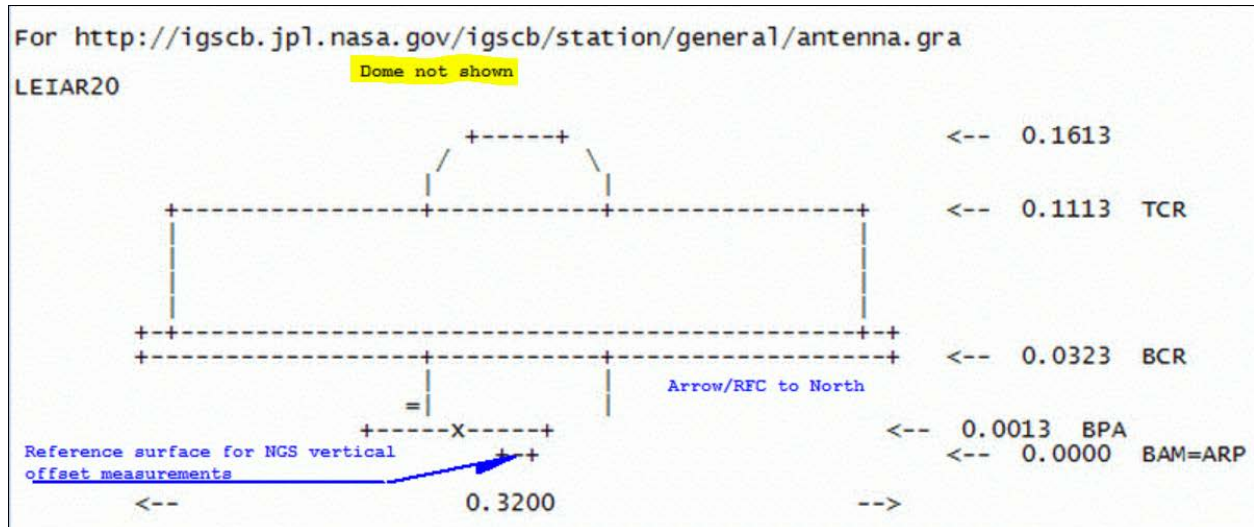
STATUS:

- 2018/03/06 18:00UT Operational
- 2017/10/26 09:00UT Out of Service
- 2005/02/11 00:00UT Operational

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

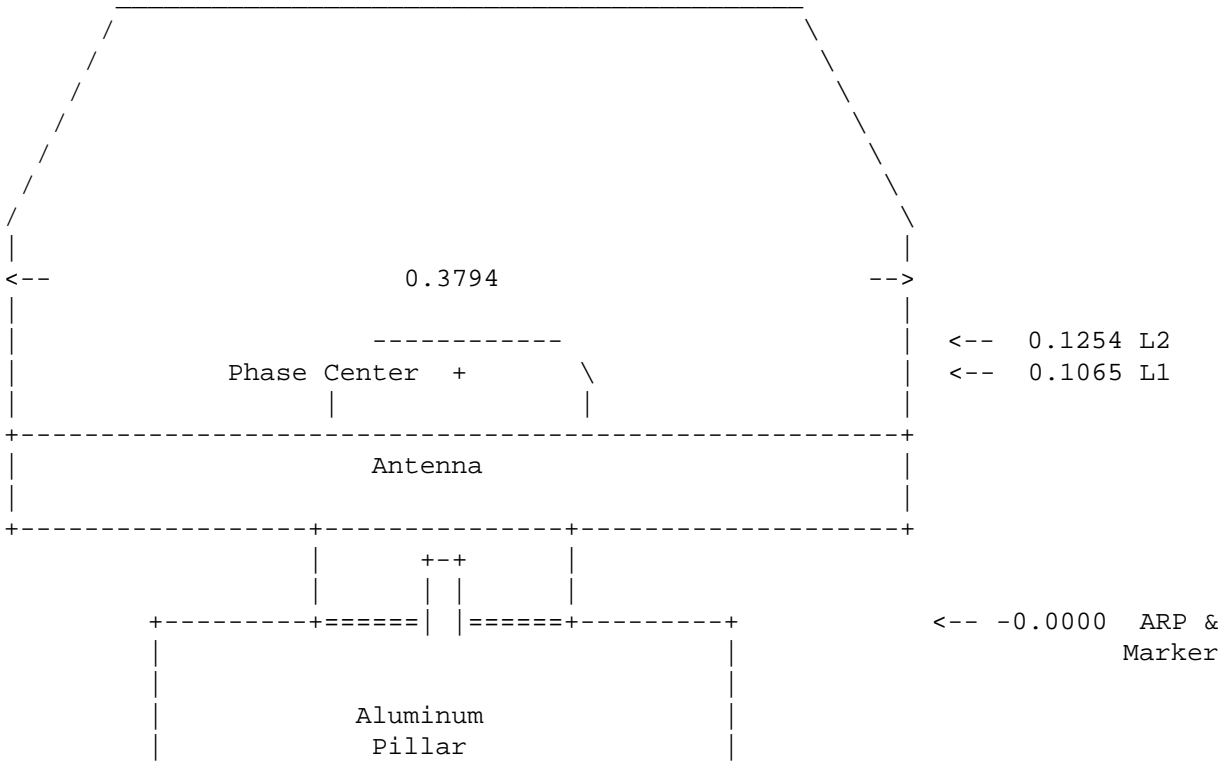
ANTENNA DIAGRAM:

2018/03/06 Leica AR20 with Radome (LEIAR20 LEIM)



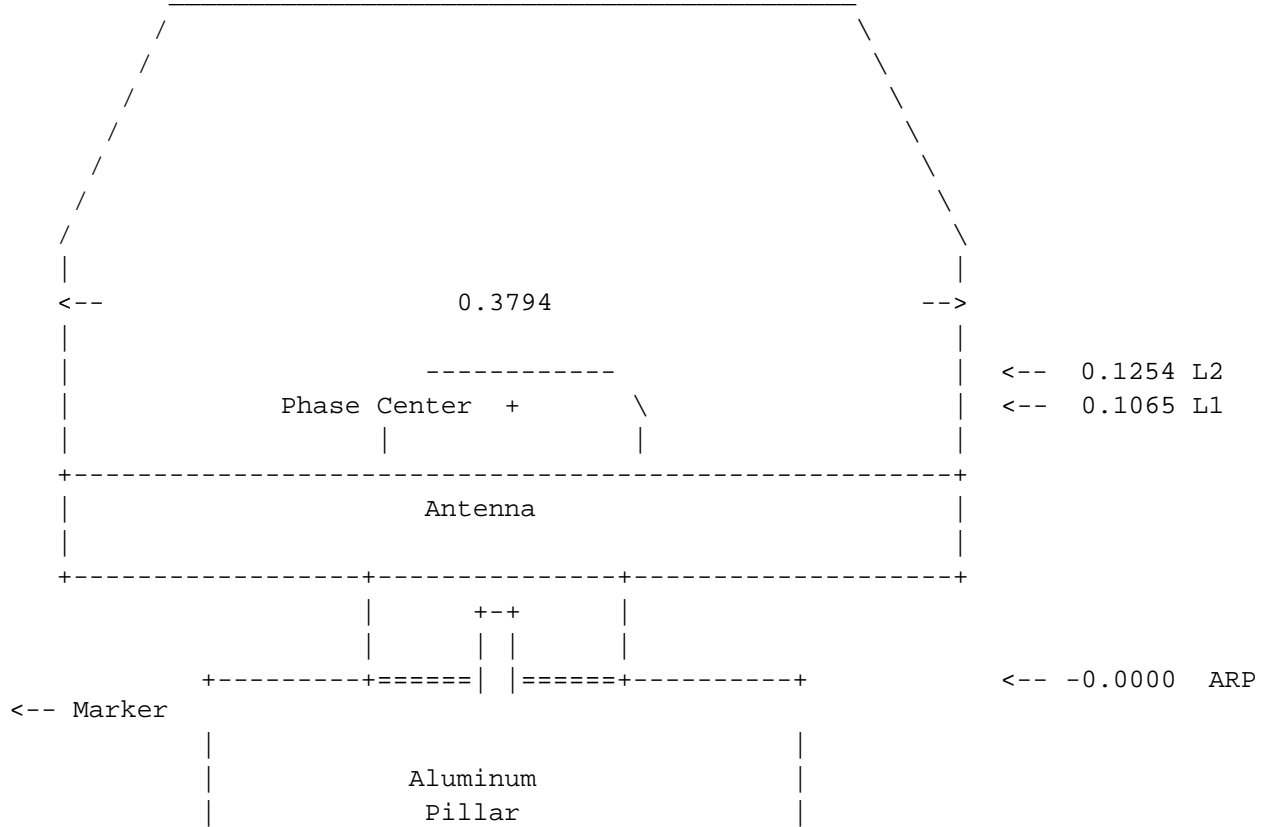
2007/12/07
LEIS)

Dorne Margolin Leica Choke Ring with Leica dome(AT504GG



2005/02/11
LEIS)

Dorne Margolin Leica Choke Ring with Leica dome(AT504



ACRONYMS:

ACP ... Active Control Point
ARP ... Antenna Reference Point
BCACS ... British Columbia Active Control System
HTV2.0 ... Height Transformation Model for CGVD28, Version 2.0
HT97 ... Height Transformation Model 1997 for CGVD28
NAD83 ... North American Datum 1983
NAD83(CSRS) 4.0.0.BC.1 ... NAD83, Canadian Spatial Reference System, Version 4,
Epoch 2002, British Columbia
RINEX ... Receiver Independent Exchange Format
WGS84 ... World Geodetic System 1984