

**GeoBC**  
**BRITISH COLUMBIA ACTIVE CONTROL SYSTEM**

GPS ACTIVE CONTROL POINT as of 2015/06/17

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STATION: BCPH / PTHY (PGC)  
GEODETIC MARK: 611756  
FULL NAME: BCACS - Port Hardy ACP  
CLASS: BCACS Primary  
LOCATION: Port Hardy, B.C., Canada  
Installed on a concrete pillar at Port Hardy Airport

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- 2006/03/21

MARKER COORDINATES: Latitude N 50 41 08.01325  
Longitude W127 22 31.20039  
Ellipsoid Height 1.456m  
Orthometric Height 16.196m

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GEODETIC ATTRIBUTES: Datum/Ellipsoid = NAD83(CSRs) 3.0.0.BC.1.NVI  
Geoid Model = HTV2.0  
N = -14.74m  
xi = -0.94 s  
eta = 1.02 s

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- 2001-10-18

MARKER COORDINATES: Latitude N50 41 08.013171  
Longitude W127 22 31.20043  
Ellipsoid Height 1.586m  
Orthometric Height 16.196m (msl)

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GEODETIC ATTRIBUTES: Datum/Ellipsoid = NAD83/WGS 84  
Geoid Model = HT97  
N = -14.61m  
xi = -0.37"  
eta = 1.08"

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- Preliminary

MARKER COORDINATES: Latitude N50 41 08.013171  
Longitude W127 22 31.200627  
Ellipsoid Height 1.478m  
Orthometric Height 16.088m (msl)

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GEODETIC ATTRIBUTES: Datum/Ellipsoid = NAD83/WGS 84  
Geoid Model = HT97  
N = -14.61m  
xi = -0.37"  
eta = 1.08"

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REFERENCE NETWORKS:

Inner: nil

Outer: GCM #650101 HOLB 495762 UCLU 778241 WILL 816868  
NANO  
188342 GPS on BM 248906 GPS on BM 368175 GPS on BM

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COLLOCATION TIES:

- nil

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ANTENNA HEIGHT: > vertical distance measured to antenna reference point (ARP)

- 2006/01/17 22:00UT 0.100m  
- 2001/04/18 21:00UT 0.1692m

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GPS RECEIVER:

- 2007/10/18 22:00UT Leica GRX1200 PRO GG sn 351080  
- 2006/01/17 22:00UT Leica RS500 sn 80263  
- 2001/04/18 21:00UT Trimble 4000SSi s/n#3508A09834

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FIRMWARE:

- 2015/06/17 13:02UT Firmware 9.20 / ME 3.823  
- 2013/11/05 22:08UT Firmware 8.71 / ME 3.822  
- 2012/05/02 19:35UT Firmware 8.51 / ME 3.019  
- 2011/02/21 15:45UT Firmware 8.20 / ME 3.019  
- 2011/02/21 16:50UT Firmware 8.10 / ME 3.019  
- 2010/09/08 15:40UT Firmware 8.0  
- 2010/03/05 14:00UT Firmware 7.80  
- 2009/05/05 14:00UT Firmware 7.50  
- 2008/10/31 15:00UT Firmware 6.00  
- 2008/02/26 16:20UT Firmware 5.62  
- 2007/10/18 19:00UT Firmware 5.60  
- 2006/01/17 22:00UT Firmware 5.00  
- 2001/04/18 21:00UT Nav7.29 / Sig3.07 / Boot3.33  
- 2002/03/25 18:30UT Nav7.19a/ Sig3.04 / Boot3.33

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ANTENNA (diagram below):

- 2007/10/18 19:00UT Leica Choke Ring - GLONASS with LEIS Dome sn  
200016 (LEIAT504GG LEIS)  
- 2006/01/17 22:00UT Leica Choke Ring with LEIS Dome sn 102905  
- 2001/04/18 21:00UT Trimble 4000SST/SSE (L1/L2) s/n#3205a59297

ANTENNA CABLE:

- 2006/01/17 22:00UT Times Microwave Systems LMR600 - 75m  
- 2001/04/18 21:00UT FSJ4-50B Superflex Cable 60m

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CLOCK:

- 2007/10/18 21:00UT GPS Receiver Internal Clock  
- 2006/01/17 21:00UT GPS Receiver Internal Clock  
- 2001/04/18 21:00UT GPS Receiver Internal Clock

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COMPUTER HARDWARE:

- 2006/01/17 22:00UT N/A  
- 2001/04/18 21:00UT IBM PII 350MHz

COMPUTER SOFTWARE

- 2001/04/18 21:00UT NT ver 4.0  
Trimble URS for Windows Ver1.1 s/n#42764

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MODEMS:

- 2007/10/18 22:00UT DOX Port Com21 Cable Modem sn  
65001187205432  
- 2007/10/18 22:00UT Lantronix MSS100 Terminal Server -  
REMOVED  
- 2006/01/17 22:00UT DOX Port Com21 Cable Modem sn  
65001187205432  
- 2006/01/17 22:00UT Lantronix MSS100 Terminal Server sn  
9845626

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UNINTERRUPTABLE POWER SUPPLY:

- 2010/06/08 22:00UT APC Back-UPS ES 550  
- 2006/01/17 22:00UT APC Back-UPS ES 350  
- 2001/04/18 21:00UT Best Fortress LI1.42KVAB s/n#  
li1.42kb32716

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STATUS:  
- 2006/01/17           21:00UT           Operational  
- 2001/04/18           21:00UT           Operational

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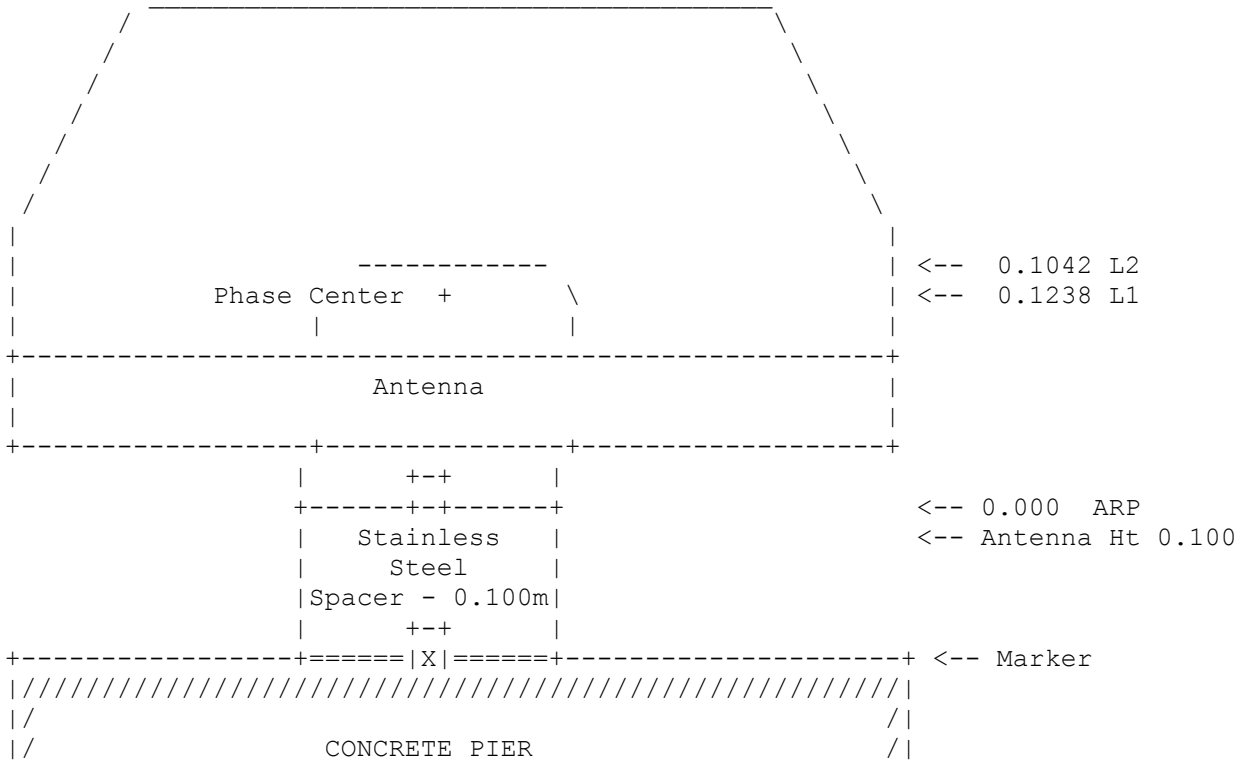
AGENCY:           GeoBC  
                  Prince of British Columbia

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                  email: vern.vogt@gov.bc.ca

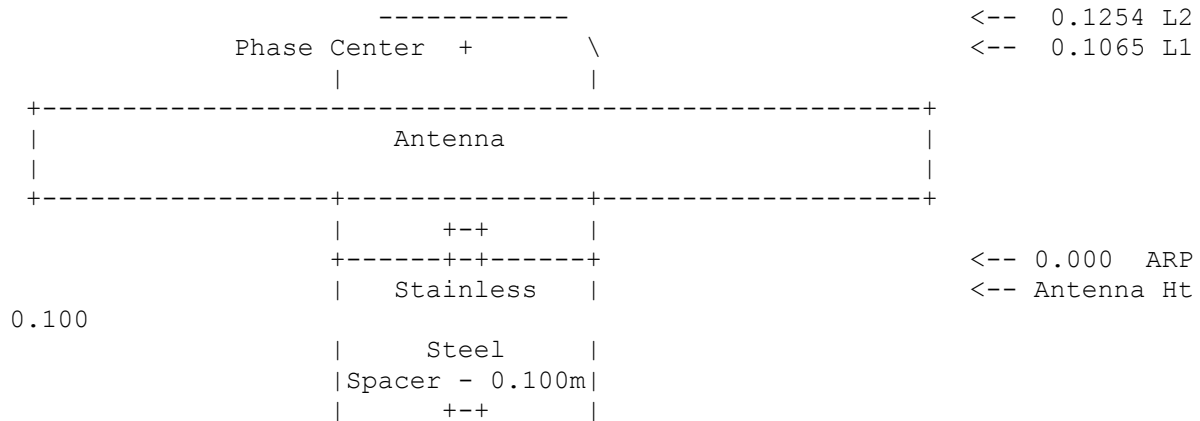
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ANNTENA DIAGRAM:

2007/10/18 DM T Style Leica Choke Ring with Leica dome (LEIAT504GG LEIS)



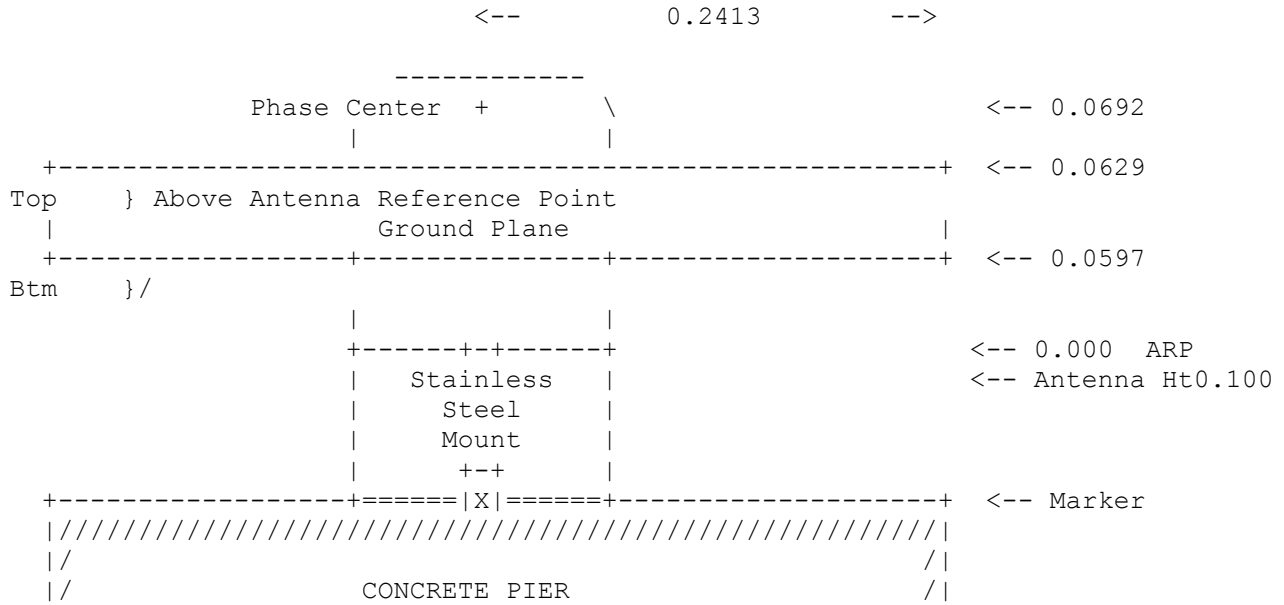
2006/01/17 Dorne Margolin Leica Choke Ring with Leica dome (AT504 LEIS)



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|/ CONCRETE PIER /|

2001/04/18  
14532.00)

Trimble 4000SSE/SST L1/L2 Geodetic Antenna (NGS TRM



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ACRONYMS:

ARP ... Antenna Reference Point  
BCACS ... British Columbia Active Control System  
NAD83(CSRS) ... North American Datum 1983 Canadian Spatial Reference System  
WGS84 ... World Geodetic System 1984