

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

GPS ACTIVE CONTROL POINT as of 2021/02/11

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STATION: BCTE  
GEODETIC MARK: 722959  
FULL NAME: BCACS - Terrace ACP  
CLASS: BCACS Primary  
LOCATION: 5220 Keith Ave Terrace BC Canada

Terrace ACP is installed on an antenna mast attached to the North East wall  
of the BC Hydro building.

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- 2021/02/11

MARKER COORDINATES: Latitude N 54°30'53.37345"  
Longitude W 128°37'35.67397"  
Hybrid Ellipsoid Height (HEH) 61.371m\*  
Orthometric Height 69.996m

\*The updated HEH at BCTE has been derived via new GNSS observations to passive GCMs within the Terrace Integrated Survey Area. The HEH values at select passive GCMs were constrained in the adjustment that yielded the updated value at BCTE. The HEH at the passive GCMs were derived by adding the HTv2.0(1997.0) separation, N, to their published Orthometric Heights. Note that an HEH is not a true ellipsoid height. BCACS stations are, by convention (since inception), vertically configured for optimal orthometric height compatibility with the passive networks in their immediate vicinity via use of the officially adopted height transformation models in circulation.

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GEODETIC ATTRIBUTES: Datum/Ellipsoid = NAD83(CSRs) 4.0.0.BC.1  
Height Transformation Model = HTv2.0 (1997.0)  
N = -8.625 m  
xi = -6.1 "  
eta = 3.8 "

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- 2006/04/11 OBSOLETE

~~MARKER COORDINATES: Latitude N 54°30'53.37345"  
Longitude W 128°37'35.67397"  
Ellipsoid Height 61.411m  
Orthometric Height 70.031m~~

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~~GEODETIC ATTRIBUTES: Datum/Ellipsoid = NAD83(CSRs)  
Height Transformation Model = HTV2.0  
N = -8.62  
xi = -6.13  
eta = 3.80~~

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- 1998/05/07 OBSOLETE

~~MARKER COORDINATES: Latitude N 54°30'53.37449"  
Longitude W 128°37'35.67514"  
Ellipsoid Height 61.451m  
Orthometric Height 70.031m~~

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~~GEODETTIC ATTRIBUTES: Datum/Ellipsoid = NAD83(CSRS)  
Height Transformation Model = HT97  
N = -8.58  
xi =  
eta =~~

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REFERENCE CONNECTIONS:

- 1998/05/07

HORIZONTAL: Project# 98150  
GCM's 914713 719716 68361 441535 735399 607853 435412  
842492 542290 77206 15396

- 2020/01/31

VERTICAL: Project# 19010  
GCM's 302240 (TP offset from 719716) 697813 (TP offset from  
115600) 268524

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REFERENCE NETWORKS: OBSOLETE

~~- 1998/05/07~~

~~Inner: \_\_\_\_\_~~

~~Outer: \_\_\_\_\_ GCM's 735399 435412 719716 607853~~

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COLLOCATION TIES:

- nil

ANTENNA HEIGHT: > vertical distance measured to antenna reference point

- 2012/09/12 00:00UT 0.000m

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GPS RECEIVER:

- 2012/09/12 22:00UT Trimble NetR5 s/n# 4848K59465  
- 2006/04/03 00:00UT Trimble 4000SSi (L1/2 P1/2) s/n#  
3508A09834

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FIRMWARE:

- 2019/03/01 21:00UT Firmware 48.01  
- 2015/02/05 18:54UT Firmware 4.87

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- 2014/04/24 17:25UT Firmware 4.85  
- 2013/03/09 19:20UT Firmware 4.70  
- 2012/05/03 22:00UT Firmware 4.48  
- 2006/04/03 00:00UT Firmware Nav7.32/Sig3.07/Boot3.34

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ANTENNA (diagram below):

- 2009/12/09 22:00UT Trimble GNSS Choke Ring with Scign Dome sn  
4838A58397  
- 1996/06/22 00:00UT Trimble Compact L1/L2 w G/P sn # 80072896

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ANTENNA CABLE:

- 2012/09/12 22:00UT 30m LMR400  
- 2005/02/21 00:00UT 30m LG214

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CLOCK:

- 1996/06/22 00:00UT GPS Receiver Internal Clock

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COMPUTER HARDWARE:

- 1996/06/22 00:00UT N/A

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MODEMS:

- 1996/06/22

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UNINTERRUPTABLE POWER SUPPLY:

- 2006/06/01 00:00UT Best Powerware 1500VA  
- 1996/06/22 00:00UT

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STATUS:

- 2019/07/22 00:00UT Operational  
- 2019/03/01 21:00UT Files Corrupt  
- 1996/06/22 00:00UT Operational

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AGENCY: GeoBC  
Base Mapping & Cadastral Branch

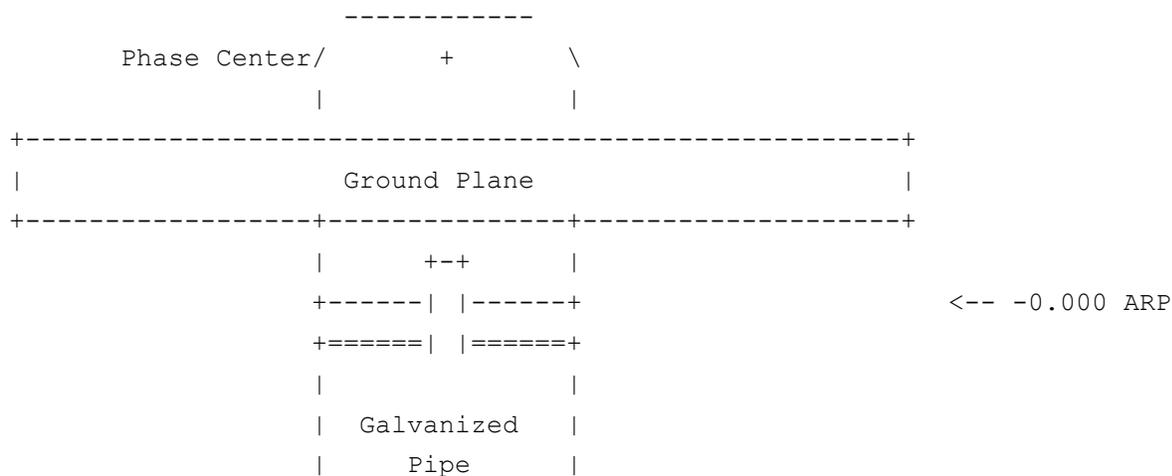
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ANTENNA DIAGRAM:

2012/09/12            Trimble GNSS Choke Ring with Scign Dome (NGS59800.00 SCIS)



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Trimble Compact L1/L2 with Groundplane (TRM22020.00 +GP)

