

WYLC-2011 CORS

(Formerly known as WYLC)

The Bureau of Land Management, Laramie County Community College, the Cheyenne/Laramie County GIS Cooperative and the Professional Land Surveyors of Wyoming/Southeast Chapter have collectively entered into an agreement for the establishment of a Continuously Operating Reference Station (CORS) in Laramie County, Wyoming. The participants have dedicated their time and resources to establish the Cooperative CORS.



What is CORS? www.ngs.noaa.gov/CORS

[WYLC Specifications](#)

[Location Map](#)

[Disclaimer](#)



Equipment resources were provided as follows:

BLM, Wyoming State Office

www.wy.blm.gov

Receiver, antenna, data logging software and computer, technical knowledge of the Wyoming State Geodesist and NGS State Geodetic Coordinator

Laramie County Community College

www.lccc.cc.wy.us

Location for CORS, antenna mount and support, IT support and telecommunication links for successful data transmittal to NGS

Cheyenne / Laramie County GIS Cooperative

<http://www.clcgisc.com>

Website maintenance describing the GPS resources available in Cheyenne and Laramie County



Professional Land Surveyors of Wyoming / Southeast Chapter

www.plsw.org

Trimble Navigation HPB 450 35 watt radio, cabling, power converter and accessories for the purpose of broadcasting a Real Time Kinematic (RTK) GPS corrector signal, coordination of FCC licensing



[Back to Top](#)

WYLC Specifications

Trimble NetR9 GNSS receiver

Zephyr GNSS Geodetic II antenna (part number 57951-00)

Trimble Trimmark 3 radio broadcasts a 2 second CMR+ GNSS corrector in the Trimmark 3 mode at 9600 baud on 461.65MHz

WYLC collects GNSS data (5 second rate) in a Trimble .T02 file. These files are posted every 30 minutes to the NGS where they are converted to a GPS only Rinex file. Contact Mike Londe, BLM, at mlonde@blm.gov if you need GNSS files. Data is available for download from www.ngs.noaa.gov/CORS.

Station Coordinates

The station coordinates are listed below. Elevations and heights are relative to the Antenna Reference Position (ARP) which is the bottom of the antenna.

NAD_83 (2011) (EPOCH 2002.0) Position

Latitude = 41° 06' 16.29485" N

Longitude = 104° 46' 31.29306" W

Ellipsoid height = 1824.759 m

Geoid height = -16.499 m (Geoid 03)

Orthometric Elevation = 1841.258 m NAVD88 (computed from Geoid12)

WGS 84 (1150) / ITRF00 POSITION (EPOCH 1997.0)

Latitude = 41° 06' 16.31845" N

Longitude = 104° 46' 31.33032" W

Ellipsoid height = 1823.892 m

The link below will allow one to download the coordinate or datasheet for Station WYLC

<http://www.ngs.noaa.gov/cgi-cors/corsage.prl?site=wylc>

[Back to Top](#)

Location Map

The station is located on top of the Construction Trades Building on the east end of the Laramie County Community College campus. The antenna location is at the red star on the map.

