



California Spatial Reference Center

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July 2020

CRTN Data Policy

- (1) CRTN data streams are available via NTRIP. Users must have a CRTN user account (NTRIP username and password) and can be requested at https://www.surveymonkey.com/s/CRTN_Registration.
- (2) CRTN has been divided into southern (SC) and northern (NC) sections. The breakdown of stations and relevant information can be found at http://sopac.ucsd.edu/docs/CRTN_Access.xlsx.
- (3) CRTN RTCM data streams are available through NTRIP protocol. CRTN is divided into four subnetworks according to California Coordinate System (CCS83) zones and accessed through the following IP and port numbers (updated 10/27/2019):

Southern California, Zone 6 – IP Address: 132.239.154.80, Port: 2103
Southern California, Zone 5 – IP Address: 132.239.154.80, Port: 2104
Northern California, Zones 3-4 – IP Address: 132.239.152.175, Port: 2103
Northern California, Zones 1-2 – IP Address: 132.239.152.175, Port: 2104
- (4) Multiple data streams will be available to CRTN Consortium members including contributing members and CRTN collaborators.

Additional Updates

- Contributing Members donate \$1,000 annually, which provides access to a second NTRIP account for real-time access to RTCM 3.0 data (all users have free access to a single account). Additional access increases by \$1,000 per account. Please note that contributing members do not participate in oversight/management of the network. All donations are used towards operating and maintaining CRTN and our data services. If you or your organization would like to donate, please go to the following webpage: <https://tinyurl.com/givetoCRTN> (or <https://giveto.ucsd.edu/giving/home/gift-referral/c75e9e52-7fc4-49a3-9366-6e9b7d65dc9c>).
- CRTN Consortium Members contribute \$15,000 annually, which provides access to any 20 real-time CGPS sites 24/7. This membership has one vote in the CRTN Consortium, which oversees the development and management of the network.
- Statewide CRTN Consortium Members contribute \$150,000 annually, which provides access to all real-time CGPS sites 24/7. This membership has three votes in the Consortium.
- To receive CRTN updates, please subscribe to the CRTN Forum at <http://geoforum.ucsd.edu/sopac/ubbthreads.php?ubb=newuser>

Participating Organizations: • American Congress on Surveying and Mapping (ACSM) • American Council of Engineering Companies (ACEC) California • American Society of Photogrammetry and Remote Sensing (ASPRS) • Basin and Range Geodetic Network (BARGEN) • Bay Area Regional Deformation (BARD) • Bureau of Land Management (BLM) • California Coastal Commission (CCC) • California Department of Water Resources (DWR) • California Land Surveyors Association (CLSA) • California State University Fresno • CalTrans • Centro de Investigación Científica y de Educación Superior de Ensenada (CICESE) • City of Los Angeles, Department of Public Works • City of Vacaville • County Engineers Association • East Bay Municipal Utility District (EBMUD) • ESRI • Geographical Information Systems Consultants • League of California Surveying Associations • Metropolitan Water District of Southern California (MWD) • National Oceanic and Atmospheric Administration (NOAA) • NOAA's National Ocean Service (NOS) National Geodetic Survey (NGS) • Office of Management and Budget • Orange County Public Works • Riverside County Flood Control and Water Conservation District • RBF Consulting • San Diego Department of Public Works • San Francisco Bay Conservation and Development Commission (BCDC) • Santa Clara Valley Water District • Southern California Integrated GPS Network (SCIGN) • Stoddard and Associates • University of California, San Diego (UCSD) • U.S. Corps of Engineers • U.S. Geological Survey (USGS) • Urban and Regional Information Systems Association (URISA) •