

Subject: [Coconet-update] COCONet Newsletter November 2013
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News From the Continuously Operating Caribbean Observational Network (COCONet) For November 2013

COCONet Data Center Awards

The Continuously Operating Caribbean GPS Observational Network (COCONet) project, funded by the National Science Foundation (NSF) as a Collaborative Research project between UNAVCO and the University Corporation for Atmospheric Research (UCAR), is pleased to announce the [awards](#) of the COCONet Mirror Data Center Sites and Regional Data Center.

Mirror Data Center Sites

Caribbean Institute for Meteorology and Hydrology – The [Caribbean Institute for Meteorology and Hydrology](#) (CIMH) will receive a grant to develop a mirror data center to host and serve COCONet data and metadata from UNAVCO and serve as a geodetic seamless archive center through web services ([GSAC-WS](#)). CIMH, headquartered in Husbands, St. James, Barbados will serve the eastern circum-Caribbean region. Dr. Andrea M. Sealy is the principal investigator for the mirror data center award. CIMH is a Regional Meteorological Training Centre for the World Meteorological Organisation (WMO) and part of the Caribbean Meteorological Organisation (representing 16 countries in the Caribbean). The institute is well placed to serve as a mirror data center and to expand collaborations and integration of geodetic data for atmospheric and solid Earth sciences applications.

Instituto Nicaraguense De Estudios Territoriales – The [Nicaraguan Institute for Terrestrial Studies](#) (Instituto Nicaraguense De Estudios Territoriales, INETER) will receive a grant to develop a mirror data center to host and serve COCONet data and metadata from UNAVCO and serve as a geodetic seamless archive center through web services ([GSAC-WS](#)). INETER, headquartered in Managua, Nicaragua will serve the western circum-Caribbean region. Dr. Jose Armando Saballos is the principal investigator for the mirror data center award. INETER provides research, data, education, and support for all hazards in Nicaragua, especially volcanic unrest, earthquakes, and severe weather. Their diverse talents in all fields of geoscience research and observations and their established data services make the INETER an excellent site for a mirror data center.

Regional Data Center

Colombian Geological Survey – The [Colombian Geological Survey](#), Center for Processing and Analysis of Geodetic Data will receive a grant to develop a regional data center (RDC) headquartered in Bogota, Colombia and serve the entire circum-Caribbean community. The RDC functions as a mirror for COCONet data and metadata with capabilities for local data and metadata management, such as downloading stations and archiving GNSS data. Dr. Hector Mora-Paez will serve as the principal investigator for the RDC award. Dr. Mora-Paez directs the GNSS [GEORED](#) Project at the Colombian Geological Survey. The project, the institution, and the investigators are well suited to host a regional data center with capabilities to support longer-term integration and dissemination of geodetic data for research and broader impacts.

UNAVCO will provide hardware, software, installation, and training as needed to develop these sites. The centers will support open access to data, data integration, high impact research and graduate-level training in the Earth sciences in the circum-Caribbean region where there is a significant need for more

expertise and study to meet immediate concerns and provide longer-term benefits to the COCONet community. The benefits include but are not limited to, educational advancement; professional workforce development; hazards preparedness, response and mitigation; development and planning; and understanding and living with Earth processes.

Congratulations to the new COCONet data centers. These centers should be fully functional in the near future. After a review of the success of the centers, additional support that is contingent on funding, for more data centers will be considered in 2014.

Great Shakeout for Earthquake Preparedness and Response

The Southern California Earthquake Center (SCEC) and many partners sponsored an earthquake response drill on October 17, 2013. The [Great Shakeout](#) is an excellent opportunity to practice preparedness and response and to inform the public about earthquakes. The event has grown and has participation from many countries. COCONet partners are encouraged to participate in such response drills.

In the future, UNAVCO hopes to work more closely with the Great Shakeout and related events to organize more outreach about earthquake risks. We think COCONet and the Great Shakeout can partner and effectively leverage our resources. Please contact Linda Rowan at UNAVCO if you have any comments, if you are interested in organizing more outreach with COCONet partners, or if you have suggestions of other ways to develop outreach within the COCONet footprint.

COCONet Fiscal Year 2013 Fourth Quarter Report

The COCONet quarterly report to the National Science Foundation (NSF) for June to August 2013 (FY2013-Q4) has been posted online on the COCONet website ([PDF link](#)). The report describes progress in all facets of COCONet and includes the latest statistics on the network. As of the end of the fourth quarter, Level 1 GPS data products are available for 83 COCONet stations, Level 2 GPS products are available for 80 COCONet stations, and 12 stations are configured to deliver high-rate, low-latency data streams in real-time.

New Station Installed in Trinidad

A new GPS station with meteorological instruments was installed at Toco, a small town on the northeast coast of the island of Trinidad. The station infrastructure was installed on the rooftop of the local public health center, one of the few reinforced concrete buildings available in the region. The data will be telemetered via a collocated University of the West Indies (UWI) seismic station at the health center. UWI will incorporate 2 existing GPS sites on Trinidad into the COCONet data flow in the near future.

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