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▲ Plate Boundary Observatory (PBO)

A network of 1,100 permanent, continuously operating GPS stations, 78 borehole seismometers, 74 borehole strainmeters, 28 shallow borehole tiltmeters, and six long baseline laser strainmeters; complemented by InSAR (interferometric synthetic aperture radar) and LiDAR (light detection and ranging) imagery and geochronology.

pbo.unavco.org



▲ Continuously Operating Caribbean GPS Observational Network (COCONet)

COCONet is funded by the National Science Foundation (NSF) with the aim of developing a large-scale geodetic and atmospheric infrastructure in the Caribbean that will form the backbone for a broad range of geoscience and atmospheric investigations and enable research on process-oriented science questions with direct relevance to geohazards.

coconet.unavco.org

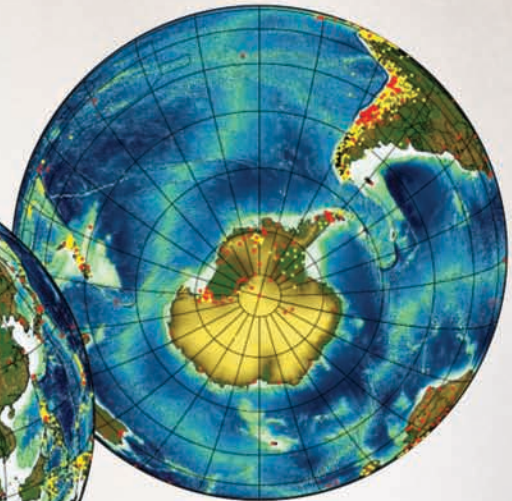
▲ AfricaArray

Its mission is bold: To create new geoscientific research and training programs and rebuild existing ones in Africa with Africans and for Africans. Specific undertakings have included the development of new geophysical training programs and expanded support of existing ones; promotion of geophysical research; and design and establishment of a network of geophysical observatories.

africaarray.psu.edu

▲ The Global Geodetic Network (GGN)

UNAVCO is part of the global network used to define the International Terrestrial Reference Frame (ITRF), upon which most global studies and satellite missions rely.



▲ The Polar Earth Observing Network (POLENET)

The project focuses on collecting GPS and seismic data from autonomous systems deployed at remote sites spanning much of the Antarctic and Greenland ice sheets. GPS and seismic measurements together provide a means to answer critical questions about ice sheet behavior in a warming world.

polenet.org

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