Reoccupation of the Riobamba (RIOP) Monument, Ecuador

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The Riobamba (RIOP) site was established during the CASA project in 1996 and operated from 1996 to 2001, functioning as a permanent station, hosting a Rogue SNR-8000 receiver and a TuboRogue Dorn Margolín with chokering antenna. Its cement monument is located on a military base in Riobamba, Ecuador. Data were sent via a fixed modem/phone line to a computer at the Instituto Geográfico Militar in Quito, and then transferred via FTP to UNAVCO. About 500 days of data are shared at the UNAVCO facility.

Since early January 2007, the station has been operating on a permanent basis. Instrumentation includes a Trimble SSI receiver and a Trimble chokering antenna. Data access via modem/phone line is being arranged; however, at the moment the data are being downloaded every two weeks and are being temporarily stored at the Instituto Geofísico, before transferal to UNAVCO. The data will be used to help constrain deformation patterns on the nearby erupting Tungurahua volcano and also serve as a control point in the InterAndean Valley to determine local and regional deformation.

Figure 1: Reoccupation of the RIOP monument in Riobamba, Ecuador. The station had been abandoned for six years.