

## **Report of OVSICORI-UNA, Costa Rica network**

The OVSICORI-UNA seismographic network is located in Costa Rica. The majorities of instruments of this network are short period vertical instruments RANGER SS-1 (1-sec). In 2004, the network consisted of 20 of these short period stations distributed along the country and five CMG-6TD instruments in the central part of Costa Rica. We also run a seismic strong motion array in Northwestern Costa Rica. This array is composed of 10-13 sites including Geotech A900/A800 accelerographs (three-component), Ref-Teks (three-component velocity), and Kinemetric Episensors.

Starting in 2006, we are dedicated to improve our seismic network with broadband seismometer (STS-2) and accelerometers (FBA ES-T), until now we have installed four of these stations with Q330 digitizers and are planning to install four more for 2009. These four stations had been installed along the country and are installed with the goal to improve the seismological studies make at our Institute.

The stations with instruments Guralps working at this moment are OCM, CDM, CERB. The stations with STS2+Q330 are HDC3, BATAN, CDITO and HZTE. The first station installed by our institute was HDC3 in November 2006 and located at the same place GEOSCOPE has HDC. This November 2008, GESCOPE upgrades his station with digitizer Q330 and OVSICORI-UNA decided to remove his station to be located at other site in Costa Rica, but we will continue using port 3 and port 4. The other three stations are working and sending data directly to the recording centre at Heredia (Universidad Nacional), where EARTHWORM is used for data processing. HZTE station is not sending data in real time to the recording centre, but for 2009 we are planning to install a communication system at the station to obtain real time data at Heredia.



Figure 1a. Location of BATAN station.



Figure 1b. Equipment installed at BATAN station.



Figure 2a. Location of HZTE station.



Figure 2b. Seismic equipment installed at HZTE station.



Figure 3a. Location of CDITO station.



Figure 3b. Seismic equipment installed at CDITO station.

**Station coordinates of broad band stations:**

CDM	UNA	09.5537	-83.7637	3494
OCM	UNA	09.8941	-83.9623	1607
CERB	UNA	09.8282	-84.3302	1125
BATAN	UNA	10.0978	-83.3761	54
CDITO	UNA	08.5733	-82.8727	118
HZTE	UNA	10.7137	-85.5954	194
HDC3	UNA	10.0021	-84.1114	1175
JTS	UNA	10.2908	-84.9534	296

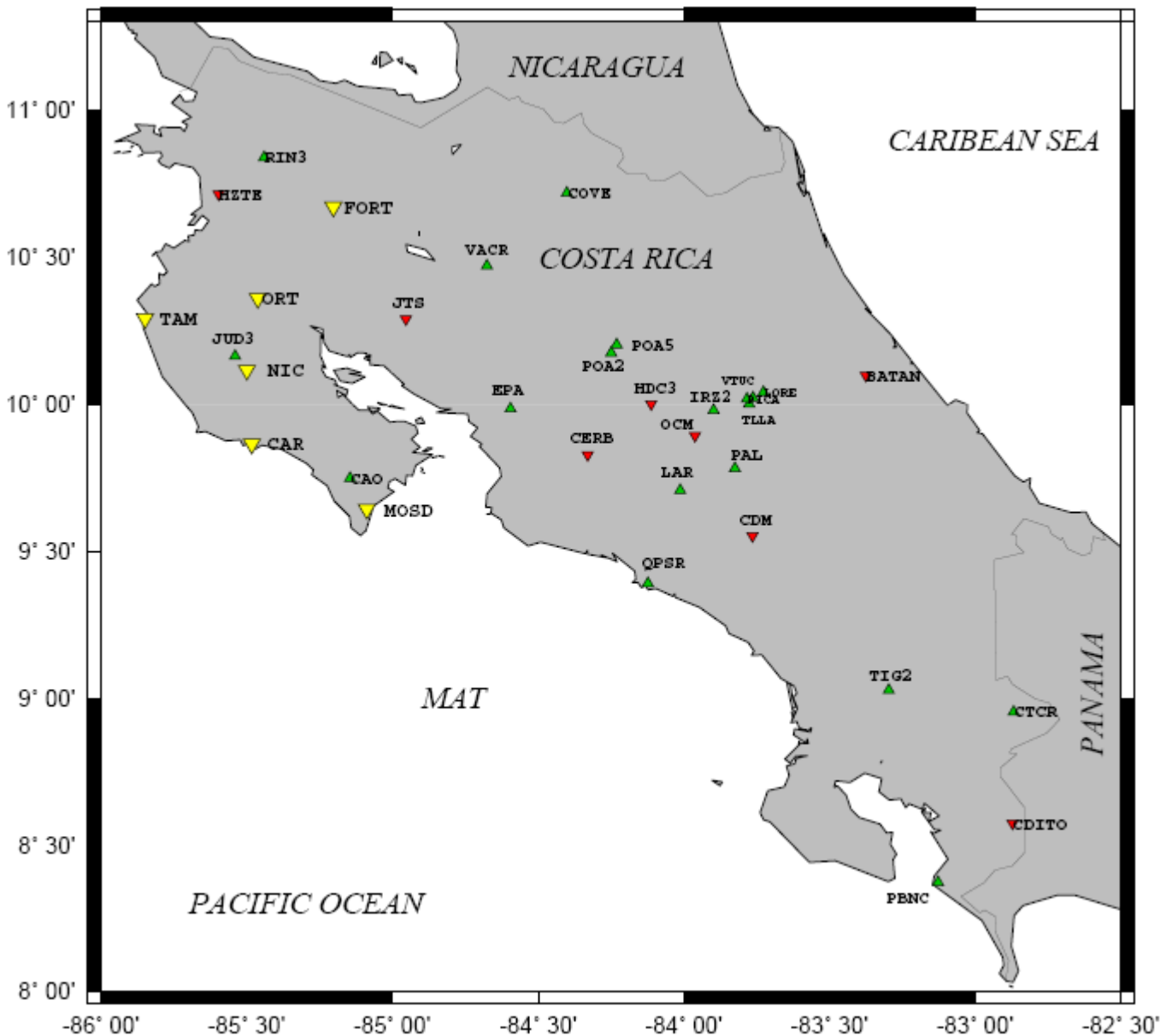


Figure 4 . Map showing the stations of OVSICORI-UNA, Costa Rica network. With a green triangle are indicated the stations with short period Ranger SS-1 (vertical component), with a inverted triangles are indicated the broad band stations and with yellow triangles the digital accelerograph array. Stations CDM, CERB and OCM have instrument CDMG-6TD and CDITO, HDC3, BATAN, JTS and HZTE have STS2 instrument. There are also accelerometers installed at CDITO, CERB, HDC3, EPA, JTS, HZTE and BATAN. JTS is an IDA/IRIS station and HDC3 a GEOSCOPE station, both administrated by OVSICORI-UNA.

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