ID: Type: **Poster**

Comparison and Integration of CTBTO IDC and the Integrated Northeast-Italy/Austrian Seismic Networks Operational Systems

The Istituto Nazionale di Oceanografia e di Geofisica Sperimentale (OGS) in Udine (Italy) after the strong earthquake of magnitude M=6.4 occurred in 1976 in the Italian Friuli-Venezia Giulia region, started to operate the Northeastern Italy Seismic Network: it currently consists of 17 very sensitive broad band and 18 simpler short period seismic stations.
The Zentralanstalt für Metereologie und Geodynamik (ZAMG) in Vienna (Austria) run the Austrian Seismic Network to monitor in real time the seismicity in the Austrian territory. ZAMG maintains also the Conrad observatory, which is a permanent laboratory for various kind of geophysical experiments: it is currently used as a test site also by CTBTO.
Since 2002 OGS in Italy and ZAMG in Austria are using the Antelope software suite as the main common tool for collecting, analyzing, archiving and exchanging seismic data in real time, initially in the framework of the EU Interreg IIIA project "Trans-national seismological networks in the South-Eastern Alps"
In this presentation we will illustrate the monitoring capabilities of the integrated Northeast-Italy/Austria seismic system and the comparison with the CTBTO IDC monitoring capabilities in the same area in terms of earthquake location and magnitude determination accuracy.

Primary author: PESARESI, Damiano (Istituto Nazionale di Oceanografia e di Geofisica Sperimentale (OGS))

Presenter: PESARESI, Damiano (Istituto Nazionale di Oceanografia e di Geofisica Sperimentale (OGS))

Track Classification: Theme 3: Advances in Sensors, Networks and Processing