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Three Different GeoSIG Instruments Recorded the Same Earthquake

Three different GeoSIG instruments deployed at various locations in Switzerland have recorded an earthquake in Nancray, France, which occurred on 23.02.2004, 17:31:21.3 UTC. In this issue we report these records in conjunction with [Schweizerischer Erdbebendienst \(SED, Swiss Seismological Service\)](#) report.

Station EH1

GeoSIG have been operating a seismic station in its R&D lab in Echallens, close to GeoSIG Production Department in Cugy, both in the vicinity of Lausanne. The station consists of a [GSR-24 Seismic Recorder](#) and a prototype of the new low noise version of the [VE-53 Triaxial Velocity Sensor](#) being tested.

Station F2

As reported in [GeoWatch 17](#), Beznau NPP approximately 15 km West of Zurich, utilises GeoSIG seismic instrumentation. The instrumentation consists of several stations with [AC-23 Sensors](#) and [GSR-18 Strong Motion Recorders](#).

Station ZCH01

Schweizerischer Ingenieur- und Architektenverein (SIA, Swiss Engineers and Architects Association) building in Zurich is instrumented by GeoSIG, under a pilot project for Internet structural monitoring. A modified version [IA-1 Internet Accelerograph](#) is used with [VE-33 Velocity Sensor](#) in this system as presented in [GeoWatch 21](#).

The Nancray event was recorded by all of the GeoSIG instruments at these three locations. Figure 2 to Figure 4 display the event recordings at the above stations respectively. On Figure 1 the locations of the earthquake and these stations are shown.

The same event was reported by [SED](#). This report consists of waveforms from 6 Swiss stations as shown on Figure 5. Further data was available for the **BOURR** station from the [Observatories and Research Facilities for European Seismology \(ORFEUS\) Wilber database](#). This data is shown on Figure 6.

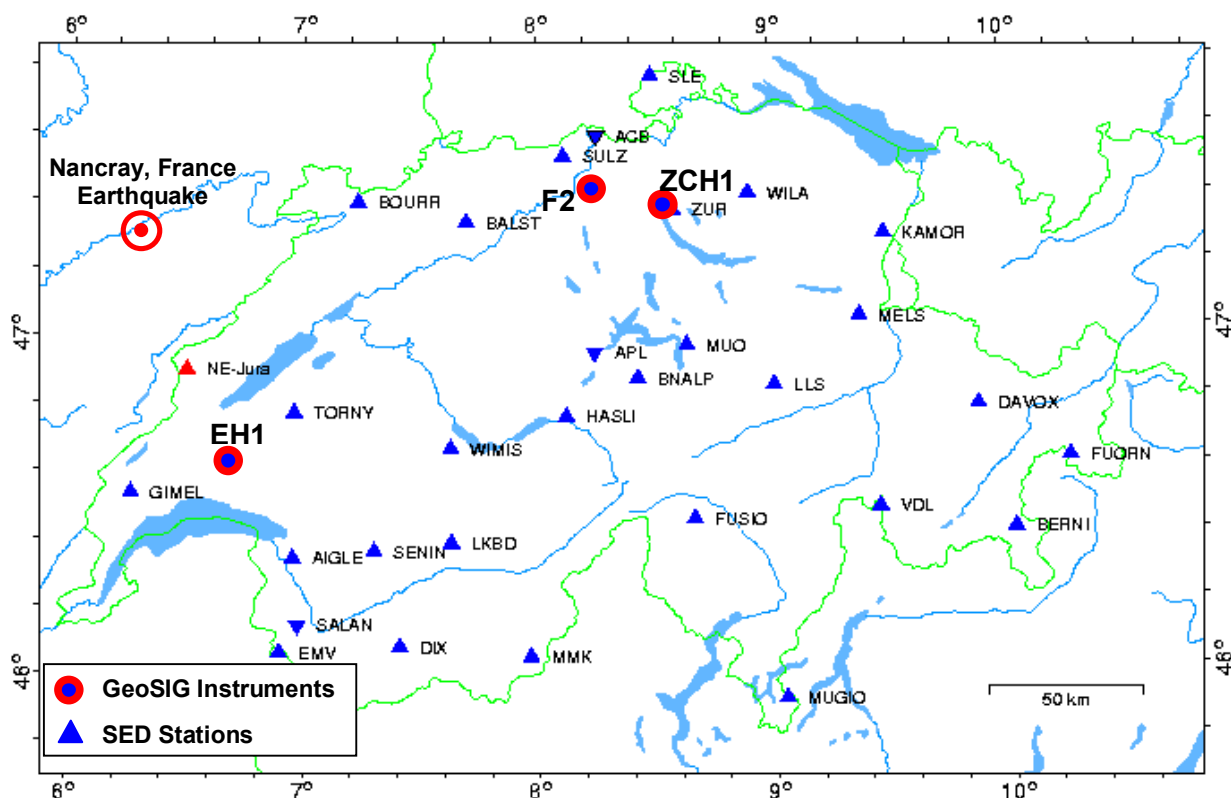


Figure 1. Locations of GeoSIG Instruments and SED stations, with respect to Nancray Earthquake epicenter

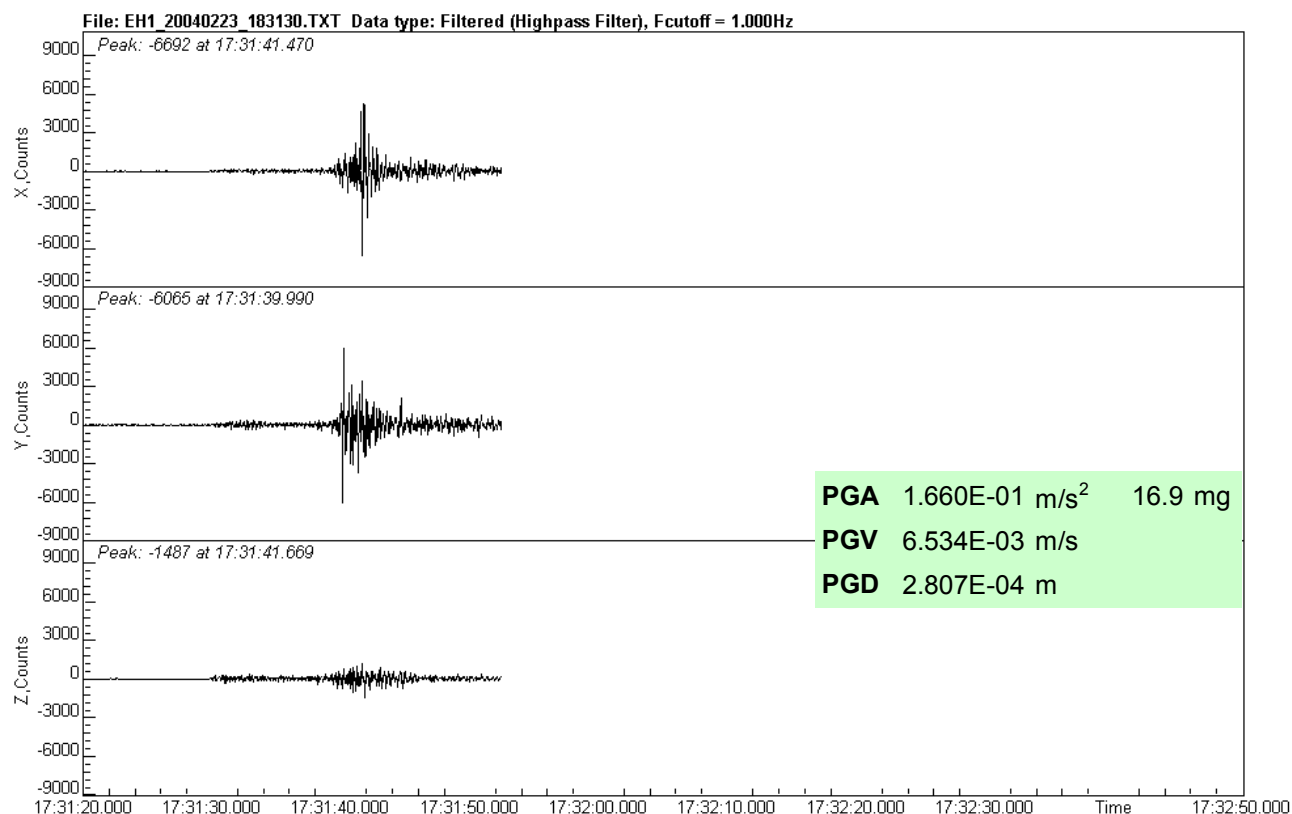


Figure 2. Station EH1 at Echallons (VE-53 & GSR-24)

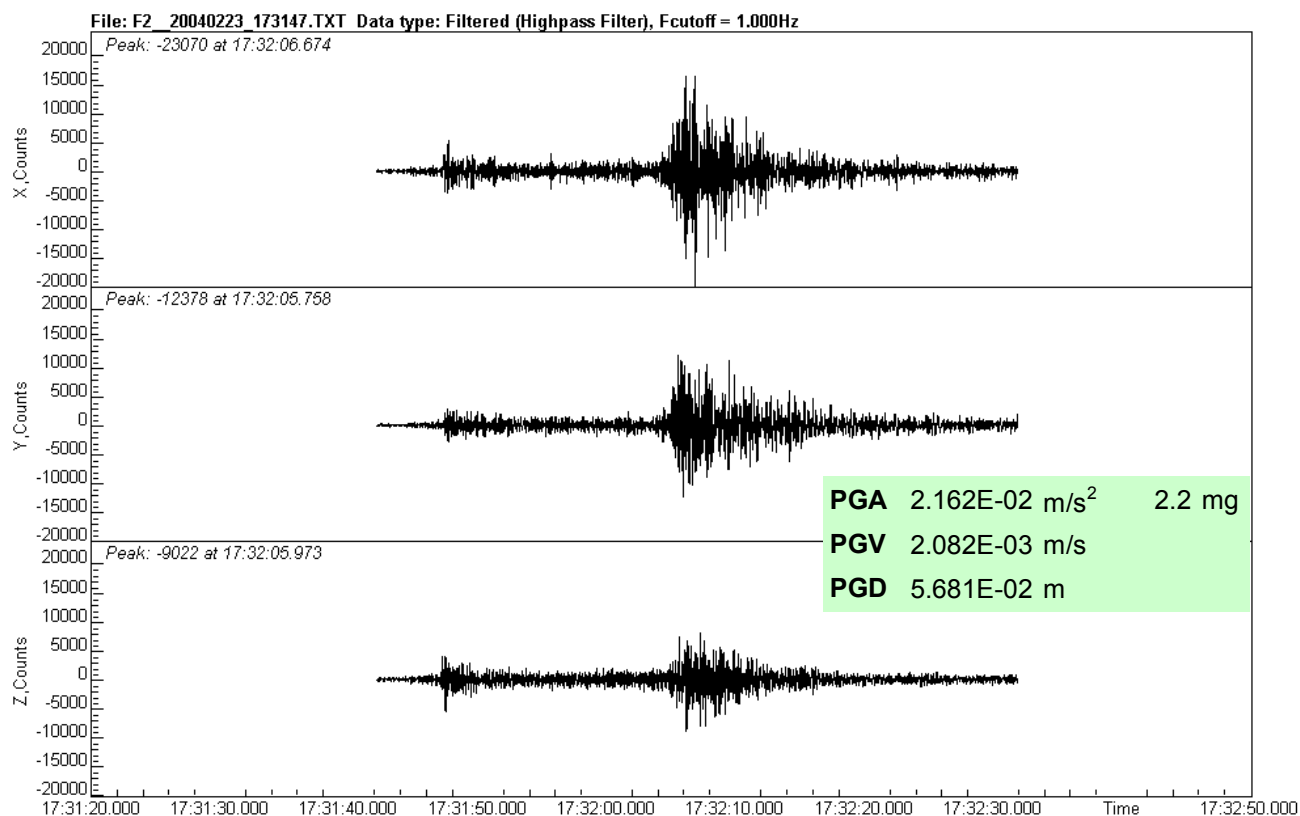


Figure 3. Station F2 at Beznau NPP (AC-23 & GSR-18)

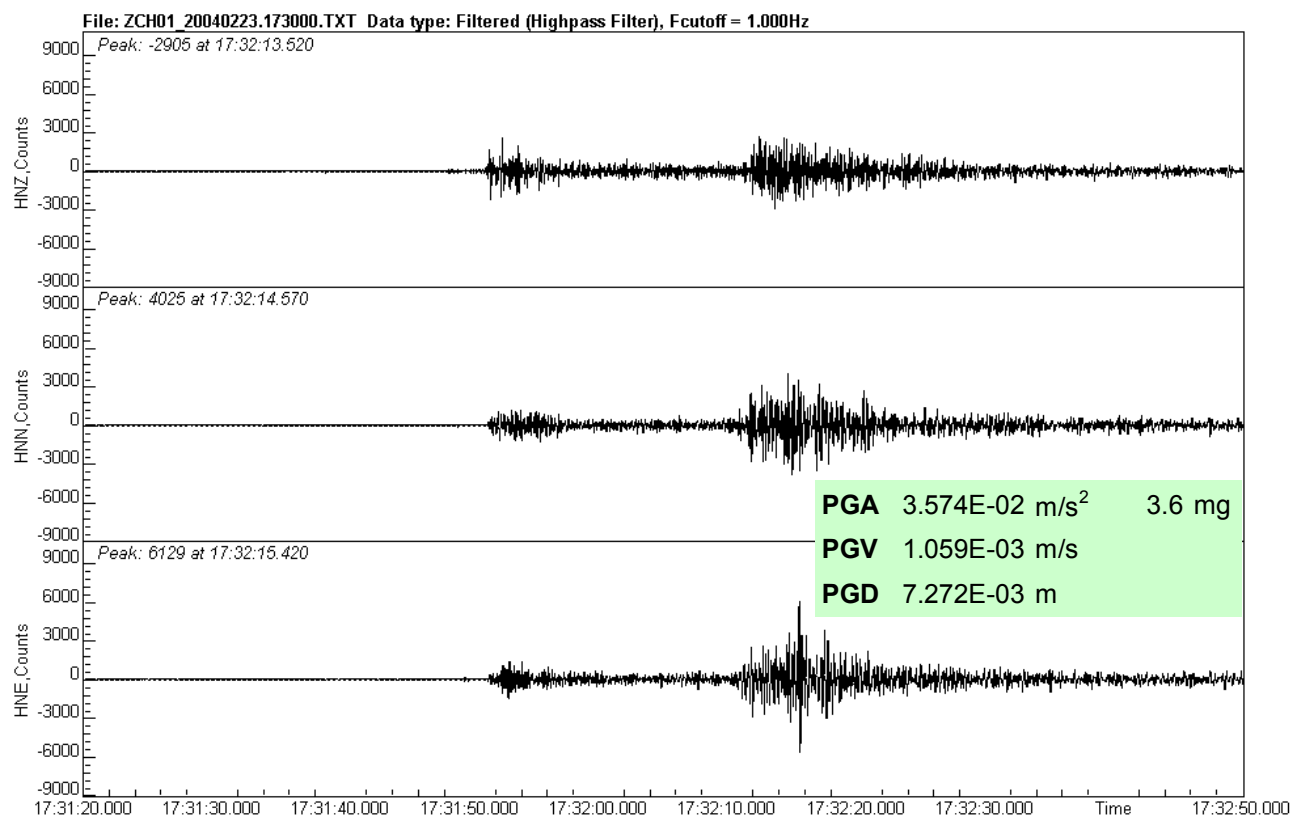


Figure 4. Station ZCH01 at SIA, Zurich (VE-33 & IA-1)

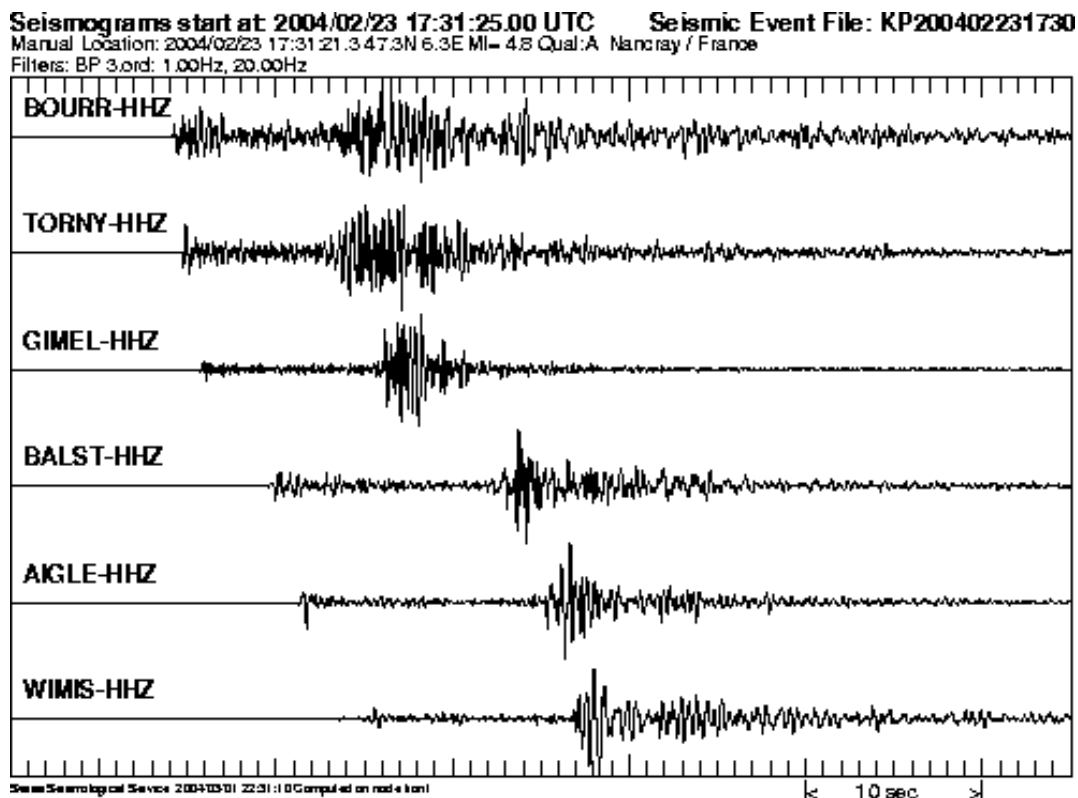
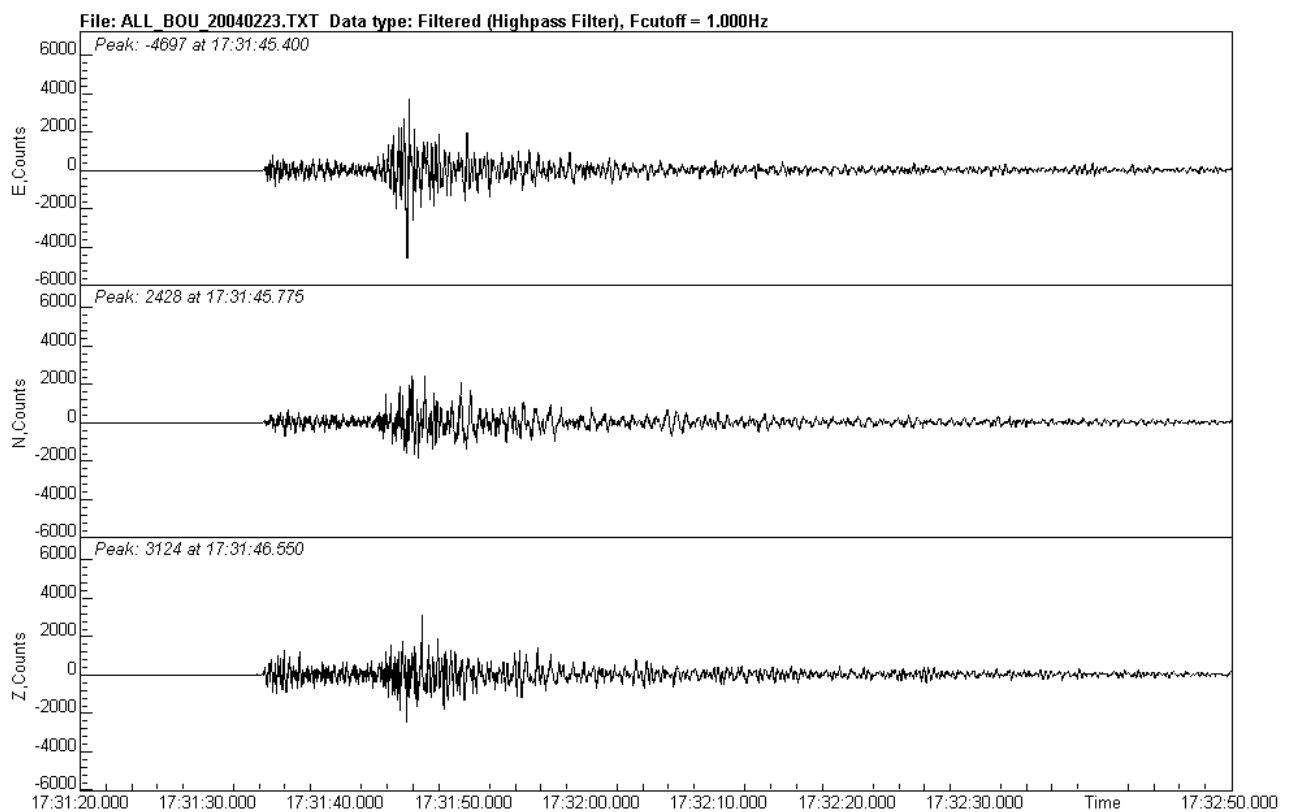


Figure 5. Records of the six SED stations



GeoSIG will Participate in the SSA 2004 Annual Meeting

The annual meeting of the Seismological Society of America (SSA) will be held in Palm Springs, California, USA, between 14-16 April. GeoSIG will attend the meeting as exhibitor and present its broad range of mea-

suring solutions as well as newest products. You are most welcome to visit our booth, where we would be more than glad to give you detailed information on our products and services.

GeoSIG Provides Industrial Seismic Protection Equipment for Tianwan NPP, China

Mid of February 2004 the factory acceptance tests (FAT) were performed for the Industrial Seismic Protection Equipment for Tianwan NPP in China. Detailed information on the equipment, which included force balance accelerometers in stainless steel housings as well as customized GSR-18 seismic recorder rackmount units, was presented in [GeoWatch 16](#).

A delegation from JSC "SNIIP-SYSTEMATOM" has visited our production facility in Cugy to perform the FAT. The tests were performed successfully and acceptance was granted. The instruments were shipped a few days after the FAT was successfully completed.

We would like to thank the JSC "SNIIP-SYSTEMATOM" delegation for their visit and cooperation.



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