



## **CASE-IPY: autonomous seismic stations newly deployed on the East Antarctic Plateau**

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The Concordia Seismic Experiment CASE-IPY, set up for the International Polar Year, aims at deploying 5 to 8 autonomous seismic stations on the East Antarctic Plateau between Concordia (Dome C) and Vostok. It is part of the international POLENET initiative, and is coordinated with the GAMSEIS (USA-China-Japan) deployment in the region of Gamburtsev mountains.

The general purpose of these projects is both to dramatically improve the coverage of the plateau to get a better knowledge of the underlying crustal and lithospheric structures, and to record waves travelling through the inner core along polar paths, that are rare, though critical for core studies.

After a phase of preliminary tests, and delays due to logistical possibilities in the region, several stations have been deployed in January 2010.

We will present the first results obtained from signal recorded up to now on these stations and from other signals recorded similarly on seismometers lying over several kilometers of ice.