

Session Title:

Deep Exploration and Earth CT(3D Continental Transects)

Session Description:

Earth CT is an international cooperative research initiative that aims to construct a new generation of high-precision digital continental-scale lithospheric cross sections that can basically be satisfied by existed data for better understand deep Earth processes and their surface response on global basis. Key-components include: 1. Integration of the latest deep seismic reflection profiles with complementary geophysics and geological observations data to provide a high-resolution framework of lithospheric structure. 2. Expansion of this framework with results from passive (e.g. broadband) observations of seismic velocity variations to produce a new, integrated representation of the lithosphere in 3D. Earth CT was launched as Task Force of ILP to establish technical and data standards for this new generation of Global Geoscience Transects. An initiative of this scope requires the involvement of international scientists from diverse disciplines, the ambitious collection of diverse dataset, both existing and incoming, and coordination with ongoing research activities worldwide.

Primary Section/Focus Group:

Seismology

Comments:

We want both oral and poster discussion ways.

Index Terms:

7230 Seismicity and tectonics [SEISMOLOGY]
7290 Computational seismology [SEISMOLOGY]
8110 Continental tectonics: general [TECTONOPHYSICS]
8123 Dynamics: seismotectonics [TECTONOPHYSICS]

Cross-Listing(s):

Yes
T - Tectonophysics

Co-Sponsor(s):

No

Co-Organized:

Yes
T - Tectonophysics

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