

1st QUEST WORKSHOP – Sardinia, Sept/2010
WP6 – TOMOGRAPHY AND GEODYNAMICS

Status of QUEST (and QUEST-related) students/postdocs:

ETH:

1 PhD student: Finite frequency (axi-symmetric SEM) CMB tomography. Collaborations: LMU, IPGP

1 Postdoc: Europe tomography (SEM and ambient noise). Collaborators: INGV, UU, Grenoble, LMU, Princeton

Spetraseis:

1 PhD student: Q tomography from ambient noise. Collaborators: ETH, Grenoble

Oxford:

1 PhD student still to be hired. Imaging of scatterers.

LMU:

(Other-funded) PhD student; upper mantle structure using triplicated body waves. Collaborators: ETH;

(Other-funded) PhD student : Whole-mantle finite-frequency P-wave tomography using newest European dataset. Collaborators: ETH, INGV, UU, Grenoble, Princeton

INGV:

1 PhD student starting in winter. Tomography of Europe; analysis of impact of misfit criteria and data validation of models. Collaborators: ETH, UU, Grenoble, LMU, Princeton

UU:

1 postdoc to start in January; project still tbd

IPGP:

1 PhD student working on using homogenisation to investigate intrinsic and extrinsic anisotropy. Collaborators: Leo Eisner

Grenoble:

1 PhD student: Ambient noise tomography of Scandinavia (using data from the Lapnet network). Collaborators: ETH

UEA:

1 PhD student: earthquake source and anisotropy investigations using normal mode data. Collaborators: IPGP; possible visit in Nov. (others to come with time)

Specific projects/deliverables:

1. Tomography of Europe. Collaborators: INGV, ETH, UU, Grenoble, LMU, Princeton
2. Global tomography (anisotropy). Collaborators: ETH, UEA, Oxford, UU, IPGP
3. Finite-frequency tomography of the lowermost mantle. Collaborators: ETH, LMU, IPGP
4. Plume project (Reunion island). Collaborators: LMU, IPGP

Future specific actions:

In 1-2 years: Organize multidisciplinary meeting on European crust and mantle structure with guest researchers from tectonophysics, geology, geodynamics, etc (organized by Karin Sigloch, LMU).