

International Workshop on Normal Oceanic Mantle

March 4-5, 2013

At meeting room-A, Earthquake Research Institute, University of Tokyo

March 4

Registration (09:30-10:00)

Session 1: Projects #1 (10:00-12:15) Chair: Nozomu Takeuchi (ERI)

Utada, H. (ERI), Kawakatsu, H., Shiobara, H., Baba, K., Isse, T., Suetsugu D.,
and Noman Project team

Noman Project 1: Overview

Kawakatsu, H. (ERI)

Noman Project 2: Toward comprehensive understanding of the
lithosphere/asthenosphere system of the normal oceanic mantle *via in-situ* ocean
bottom geophysical observations

(Break)

Shiobara, H. (ERI), Sugioka, H., Isse, T., Ito, A., Shinohara M., and Kanazawa, T.

Noman Project 3: BBOBS-NX: practical observation tool for broadband seismology
at the seafloor

Forsyth, D.W. (Brown), Shintaku, N., Booth, C., Takeo, A., and Weeraratne, D.

The PLATE Project in the Western Pacific

Session 2: Projects #2 (13:30-14:30) Chair: Hisayoshi Shimizu (ERI)

Gaherty, J.B. (Lamont), Lizarralde, D., Collins, J.A., Evans, R., and Hirth, G.

Lithospheric structure of the central Pacific: early returns from the NoMelt
Experiment

Tarits, P. (UBO)

ELECTROLITH: Volatile Cycling and Electrical Conductivity in the Earth's Mantle:
The Carbonatite connection

Session3: Mantle imaging (14:30-17:00) Chair: Mamoru Kato (Kyoto)

Shito, A. (IFREE), Suetsugu, D., Furumura, T., and NOMan Project Team

Small-scale heterogeneities in the oceanic lithosphere inferred from guided waves

(Break)

Isse, T. (ERI), Shiobara, H., Sugioka, H., Ito, A., Suetsugu, D.

Three-dimensional shear wave structures of the upper mantle from seafloor
observations in the western Pacific Ocean

Baba, K. (ERI), Tada, N., Utada, H., Shimizu, H.

Preliminary result on electrical conductivity imaging of normal oceanic mantle

Takeo, A. (ERI) and NOMan Project team

Uppermost mantle structure beneath oceanic regions from broadband array analysis
of surface waves recorded by ocean bottom seismometers

Banquette at Hotel Edmont (19:00-21:00)

March 5

Session 4: Seismic anisotropy (09:30-12:15) Chair: Kazunori Yoshizawa (Hokkaido)

Ekström, G. (Lamont)

Oceanic mantle structure from global tomography

Becker, T.W. (USC)

Seismic anisotropy below oceanic plates and large-scale mantle convection

Michibayashi, K. (Shizuoka)

Possible lateral variation of seismic anisotropies in the oceanic lithosphere due to an active mantle flow in the mid-ocean ridge: some insights from the Oman Ophiolite

(Break)

Song, TR. (IFREE) and Kawakatsu, H.

Subduction of oceanic asthenosphere: Evidence from sub-slab seismic anisotropy

Mainprice, D (Montpellier)

A database of crystal preferred orientation of olivine in upper mantle rocks – the direct mantle sample

Poster Session (13:30-14:30)

Session 5: Physical properties (14:30-16:00) Chair: Takehiko Hiraga (ERI)

Hirschmann, M. (Minnesota)

Volatile-rich partial melt at the base of the oceanic lithosphere and in the asthenosphere

Takei Y. (ERI), Karasawa F., and Suzuki A.

Experimental study on anelasticity of polycrystalline material for seismological application

Utada, H. (ERI) and Baba, K.

Estimating electrical conductivity of melt from observation

(Break)

Session 6: Future (16:30-17:30) Chair: Daisuke Suetsugu (IFREE)

Singh, S. (IPGP)

Imaging of Lithosphere Asthenosphere Boundary Across Atlantic Ocean: A Dream

Discussions (17:00-)

Posters

Evans, R. (WHOI)

An extensive melt layer beneath the oceanic lithosphere asthenosphere boundary discovered by magnetotelluric data

Schardong, L. (ERI)

Toward a high resolution tomographic imaging of the lowermost mantle

Morishige, M. (IFREE)

Flow and thermal structure around the junction of Japan-Kurile arcs

Tada, N. (IREE)

3-D electrical conductivity structure beneath the Philippine Sea Plate

Takeuchi, N. (ERI)

Absence of the stagnant slab beneath northeast China constrained by a seismic station in Mongolia

Shimizu, H. (ERI)

Electrical voltage measured by long baseline submarine cables to probe the Earth's deep interior

Honda, S. (ERI)

Importance of hot anomaly adjacent to the subducting slab

Zhang, L. (ERI)

Three-dimensional simulation of the EM fields induced by 2011 Tohoku tsunami

Nishida, K. (ERI)

Global propagation of body waves revealed by cross-correlation analysis of seismic hum

Obayashi, M. (IFREE)

P-wave tomography using BBOBS data