

IUGG 2007 in Perugia, Italy

SS001 Seismic Observations And Interpretation

Lead Convener: Storchak Dmitry

Co-conveners: Sato Haruo, Dewey James, Musson Roger, Hanka Winfried

<Oral> 11th July, 2007 from 02:00 PM to 05:45 PM - Law School Room 3

Two sessions for Scattering and Heterogeneity Task Group

1st Session Chairs: Ludovic Margerin and Haruo Sato

02:00 pm Acoustic and Elastic Radiative Transfer Theory and its Application to Earthquake Data
Przybilla Jens. Speaker Przybilla Jens

02:15 pm Three-component envelope synthesis in randomly heterogeneous media based on the Monte Carlo Simulation
Maeda Takuto. Speaker Maeda Takuto

02:30 pm Super-wide angle one-way wave propagator for seismic modeling and imaging
Wu Ru-Shan, Xiaofeng Jia. Speaker Wu Ru-Shan

02:45 pm Synthesis of wave envelopes in 3-D random media characterized by a non-isotropic Gaussian ACF based on the Markov approximation
Sato Haruo. *Speaker Sato Haruo*

03:00 pm Calculation of effective seismic properties of untextured crystal aggregates and application to inner core crystallization
Margerin Ludovic, Marie Calvet. *Speaker Margerin Ludovic*

03:15 pm New methods to estimate the contribution of intrinsic absorption and scattering to total S-wave coda attenuation
Ugalde Arantza, Eduard Carcol. *Speaker Ugalde Arantza*

03:30-03:40 Task Group Report *Haruo SATO*

03:40 pm Coffee Break (20 minutes)

2nd Session Chairs: Edoardo Der Pezzo and Michael Korn

04:00 pm Attenuation Structure of P Wave in the Aftershock Area of the 2005 West-off Fukuoka Prefecture Earthquake (M7.0)
Matsumoto Satoshi, Kenji Uehira, Atsushi Watanabe, Kazuhiko Goto, Yoshihisa Iio, Naoshi Hirata, Tomomi Okada, Hiroaki Takahashi, Masanao Shinohara, Toshihiko Kanazawa. *Speaker Matsumoto Satoshi*

04:15 pm Spatial Distribution of Random Inhomogeneities in the Southwestern Japan - Relation to the Quaternary Volcanoes and S-wave Reflector –
Takahashi Tsutomu. *Speaker Takahashi Tsutomu*

04:30 pm 3-D scattering image of Mt. Vesuvius

Tramelli Anna, Del Pezzo Edoardo, Fehler Michael C.. *Speaker Tramelli Anna*

**04:45 pm Crustal heterogeneity and deep structure of active faults in the Kinki region, southwest Japan:
Inversion analysis of coda envelopes**

Nishigami Kinya. *Speaker Nishigami Kinya*

**05:00 pm Monitoring temporal variations of seismic velocity associated with the Mw = 6.6 Mid-Niigata
earthquake, Japan, using Passive Image Interferometry and Hi-Net data**

Wegler Ulrich, H. Nakahara, C. Sens-Schoenfelder, M. Korn, K. Shiomi. *Speaker Wegler Ulrich*

05:15 pm Particle motion of coda waves in terms of energy partitioning

Nakahara Hisashi. *Speaker Nakahara Hisashi*

05:30 pm Imaging of seismic sources by Time-Reversal and application to recent large Earthquakes

**Montagner Jean-Paul, Jean-Paul Montagner, Carene Larmat, Mathias Fink, Yann Capdeville, Arnaud
Tourin. *Speaker Montagner Jean-Paul***

<Poster> 11th and 12th July, 2007 - CERP in ROCCA PAOLINA

• Three-dimensional spatial distribution of scatterers in the Canary Islands

Carcole Eduard. *Speaker Carcole Eduard*

**• Observation of coda signals from regional and local earthquakes recorded from a downhole-uphole couple of
broad-band sensors at Mt Etna.**

Del Pezzo Edoardo, Francesca Bianco, Domenico Patan, Ferruccio Ferrari. *Speaker Del Pezzo Edoardo*

- Correlation study of ambient seismic noise using broad-band network recordings in Israel
Kraeva Nadezda, Vladimir Pinsky. *Speaker Kraeva Nadezda*
- Coda Q estimates in the Andaman Region using Local Earthquakes
Parvez Imtiyaz, Mridula M., S. S. Rai. *Speaker Parvez Imtiyaz*
- The frequency dependent attenuation of P and S waves in Northeast of Iran
Nowrouzi Gholamreza, Mohsen Ghafoury Ashtiany, Gholam Javan Doloe, Keith F. Priestley, Mohammad Mokhtari. *Speaker Nowrouzi Gholamreza*
- Estimation of small-scale inhomogeneity from travel-time residuals of cross-well tomography
Saito Tatsuhiko, Osamu Nishizawa, Toshiyuki, Yokota. *Speaker Saito Tatsuhiko*
- Temporal changes in site responses at borehole sites before and after strong motions as revealed from coda wave analyses
Sawazaki Kaoru, Haruo Sato, Hisashi Nakahara, Takeshi Nishimura. *Speaker Sawazaki Kaoru*
- High Seismic Attenuation in the Reflective Layers of the Philippine Sea Subduction Zone, Japan
Petukhin Anatoly, Takao Kagawa. *Speaker Takao Kagawa*
- Three-component envelope synthesis in randomly heterogeneous media based on the Monte Carlo Simulation
Maeda Takuto, Kazushige Obara. *Speaker Maeda Takuto*
- Equipartition of seismic waves in the long and short period seismic coda: observation and theory
Margerin Ludovic, Emmanuel Chaljub, Michel Campillo, Nicolai Shapiro. *Speaker Margerin Ludovic*
- Testing coda methods in high resolution seismic imaging of active volcanoes: application to Campi Flegrei

and Mt. Vesuvius.

De Siena Luca, Edoardo Del Pezzo, Francesca Bianco, Anna Tramelli, Salvatore De Lorenzo. *Speaker De Siena Luca*

- Anomalies of shear wave attenuation field in the regions of Semipalatinsk, Nevada and Lop Nor test sites
Kopnichev Yuri. Speaker Kopnichev Yuri