Earthquake Research Institute, Cooperative Research Meeting

Physics- and Statistical-Based Models of Seismicity and Earthquake Forecasts

July 17-18, 2008, 1st Conference Room (Building #2), Earthquake Research Institute

July 17 morning

Session Chairs (T. Ishibe & T. Iwata)

10:00-10:05 Introduction
Naoshi Hirata (ERI, Univ. of Tokyo)

10:05-10:25 Correlation between strain localization and large earthquake occurrences: Which is the cause?
Niko Shimazaki (ERI, Univ. of Tokyo) & ……

10:25-10:45 The dependency of the b-value on focal depth and focal mechanism
Takeo Ishibe (ERI, Univ. of Tokyo)

10:45-11:05 Seismicity anomalies relative to the ETAS model
Yosi Ogata (ISM)

11:05-11:25 Slip distribution of large earthquakes, estimated from aftershock distributions
Takaki Iwata (Waseda Univ.), Shinji Toda (AIST) & Yosi Ogata (ISM)

11:25-11:45 Seismicity rate change associated with long-term slow slip events estimated by numerical simulation (in Japanese)
Kenji Maeda, Fuyuki Hirose & Hiroyuki Takayama (Meteorological Research Institute)

11:45-12:05 Spatio-temporal changes of aftershock activity and stress changes of the 2006 Kuril Islands earthquake
Shinji Toda (AIST) & Yosi Ogata (ISM)

July 17 afternoon

Session Chairs (K. Katsumata & K. Maeda)

13:20-13:40 On recent anomaly of crustal activity in the northern Kinki district
Hiroshi Katao (DPRI, Kyoto Univ.)

13:40-14:00 On recent seismic quiescence of a Tohoku offshore region
Ritsuko S. Matsu'ura (ERC, ADEP)

14:00-14:20 Seismic quiescence for the 1994 Hokkaido-Toho-Oki earthquake and the 2003 Tokachi-Oki earthquake
Kei Katsumata (ERI, Univ. of Tokyo)

14:20-14:40 Correlated seismicity in and around Japan Islands
Igarashi Toshihiro (ERI, Univ. of Tokyo)

14:40-15:00 Application of a new method of time series analysis "Natural time" to seismicity
Yuki Tomizawa (Tokyo Gakugei Univ.), Hitoshi Kamogawa (Tokyo Gakugei Univ.), Yoshiyasu Nagao (Tokai Univ.) & Seiya Uyeda (Tokai Univ.)

15:00-15:20 Application of Russian-developed-methods RTL and M8 to Japanese seismicity
Yoshiyasu Nagao (Tokai Univ.), Kenji Nakamura (Tokai Univ.), Q. Huang (Peking Univ.), Ken Kudo (Chubu Univ.), Jun Izutsu (Chubu Univ.), G. Sobolev (Russian Academy of Science) & Seiya Uyeda (Tokai Univ.)

15:20-15:30 break

Session Chairs (S. Toda & H. Tsuruoka)

15:30-15:50 Earthquake catalog, stationarity and long-range correlation of seismic activity
Shin-ichi Noguchi (NIED)

15:50-16:10 Correlation between seismicity and crustal heat flow for inland regions
Takumi Matsumoto (NIED)

16:10-16:30 Seismic velocity structure for regions of earthquake occurrence
Makoto Matsubara (NIED)

16:30-16:50 Constructing common ground of evaluating seismicity forecasts (Progress report)
Hiroshi Tsuruoka (ERI, Univ. of Tokyo)

16:50-17:10 Increases in short-term probability prior to the 2008 off Ibaraki earthquake in Kanto, Japan
Masajiro Imoto & Nahoko Yamamoto (NIED)

17:10-17:30 Experimental forecasts and its testing for interplate small repeating earthquakes
Masami Okada (MRI, JMA), Naoki Uchida (RCPEVE, Tohoku Univ.) & Hiroyuki Takayama (MRI, JMA)

17:30-17:40 Next earthquake prediction research plan (seismicity forecast)
Naoshi Hirata (ERI, Univ. of Tokyo)

18:00-20:00 Sociable

July 18 morning

Session Chairs (N. Hirata & M. Imoto)

10:00-10:40 Issues in the development and evaluation of earthquake probability forecasts
David Vere-Jones   Victoria University of Wellington & Statistical Research Associates)

10:40-11:20 The Collaboratory for the Study of Earthquake Predictability (CSEP)
Danijel Schorlemmer (SCEC, Univ. of Southern California)

11:20-12:00 The European earthquake forecast testing center and suggestions for the start of a Japanese testing center
Kazu Z. Nanjo, S. Wiemer, J. Woessner, A. Christophersen, F. Euchner, M. Werner & M.

Fischer (ETH Zurich)