



New Horizons in the Earth Sciences:

Imaging and Monitoring Active Subduction Zones and Volcanoes

18 Tue - 19 Wed October ▷▷▷



2011
TodayForum



INSTITUT DE PHYSIQUE DU GLOBE DE PARIS
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New Horizons in the Earth Sciences: Imaging and Monitoring Active Subduction Zones and Volcanoes

18 Tue - 19 Wed October >>> Auditorium, I.P.G.Paris



- **Monday, October 17:**

16:45 - 17:45 Collège de France (session on Tohoku earthquake, Barbara Romanowicz, Kenji Satake, Jean-Pierre Vilotte)

- **Tuesday, October 18: Day 1 at IGP**

● Session 1: Volcanoes	
8:30 - 9:00	Reception
9:00 - 9:20	Introduction and welcome talks (ERI & IGP)
9:20 - 9:40	Minoru TAKEO: Magma plumbing system beneath Mt. Asama volcano and its magma chamber
9:40 - 10:00	Édouard KAMINSKI: Dynamics of volcanic plumes above basaltic eruptions
10:00 - 10:20	Yosuke AOKI: Monitoring Piton de la Fournaise, La Reunion island, with ambient noise
10:20 - 10:40	Florent BRENGUIER: Monitoring the Earth's Interiors using Ambient Seismic Noise
10:40 - 11:00	Coffee Break
11:00 - 11:20	Mie ICHIHARA and John LYONS: Laboratory modeling for generation of harmonic tremor in the ground and in the air
11:30 - 11:50	François BEAUDUCCEL: Monitoring active volcanoes using 3-D modeling of ground deformations
11:50 - 12:10	Benoît TAISNE: Real time magma transport imaging and earthquake localization using seismic amplitude ratio analysis
12:10 - 12:30	Shingo WATADA: Acoustic Resonant Oscillations Between the Atmosphere and the Solid Earth During the 1991 Mt. Pinatubo Eruption
12:30 - 12:50	Giovanni OCCHIPINTI: From Sumatra 2004 to Tohoku-Oki 2011: what we learn about tsunami detection by ionospheric sounding
12:50 - 14:00	Lunch
14:00 - 15:00	Poster session: short introduction (Poster will be hanged up during the whole workshop)
13:00 - 15:00	Meeting of Directors ERHPPG + Organizing committee (in parallel)
● Session 2: Tohoku earthquake and active Subduction zones	
15:00 - 15:20	Kenji SATAKE: Variable recurrence of great earthquakes and tsunamis in subduction zones
15:20 - 15:40	Philippe LOGNONNÉ: Atmospheric/ionospheric coupling of slow and fast seismic ruptures of Tohoku-Oki
15:40 - 16:00	Hiroe MIYAKE: Frequency-dependent source processes for the 2011 Tohoku earthquake
16:00 - 16:20	Claudio SATRIANO: Source imaging of the great Tohoku earthquake
16:20 - 16:40	Teruyuki KATO: Crustal deformation and its modeling due to the 2011 Tohoku earthquake based on GPS observations
16:40 - 17:10	Tea Break
17:10 - 17:30	Anne SOCQUET, Rolando Armijo, Robin Lacassin and Christophe Vigny: Rupture of megathrust earthquakes from geodetic and tectonic study of Maule earthquake
17:30 - 17:50	Pascal BERNARD and Jean-Pierre VILOTTE: Lessons from the Tohoku earthquake in Japan and the Maule and Tocopilla earthquakes in Chile
17:50 - 18:10	Hitoshi KAWAKATSU: Seismic imaging of Japanese subduction zone
18:10 - 18:30	Mireille LAIGLE and Alfred HIRN: New images of seismic activity and structure of the Lesser Antilles subduction: similarities with the east Honshu context and the Tohoku megathrust earthquake
19:00 - 21:00	Diner Buffet at IGP



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• Wednesday October 19: Day 2 at IGP

• Session 3: Subduction zones

- 9:00 - 9:20 **Takashi IIDAKA:** Seismic structure at the subduction zone in southwestern Japan
- 9:20 - 9:40 **Satish SINGH:** Tsunamiogenic or frontal thrusting earthquakes in Sumatra and Japan?
- 9:40 - 10:00 **Kimihito MOCHIZUKI:** Crustal heterogeneity around fault segment boundaries of large subduction-zone earthquakes
- 10:00 - 10:20 **Marie-Paule BOUIN and the French Lesser Antilles Observatories:** Seismicity and deformation processes in the Lesser Antilles subduction zone
- 10:20 - 10:40 Coffee Break
- 10:40 - 11:00 **Kazushige OBARA:** Monitoring of slow earthquakes in the Nankai subduction zone
- 11:00 - 11:20 **Nikolai SHAPIRO:** Studies of non-volcanic tremors in the Mexican subduction zone
- 11:20 - 11:40 **Kiwamu NISHIDA:** Very low frequency tremors beneath Shonai plain revealed by Hi-net tiltmeters
- 11:40 - 12:00 **Bruno REYNARD (ENS Lyon):** Plastic creep of hydrated rocks at the plate interface
- 12:00 - 12:20 **Teruo YAMASHITA:** Effects of permeability anisotropy on the generation of slow slip
- 12:20 - 12:40 **Takahiro HATANO:** Seismicity in a model crust
- 12:50 - 14:00 Lunch

• Session 4: Gravity flows, seismic sources and instrumentation

- 14:00 - 14:20 **Pascal ALLEMAND:** Monitoring riverine sediment fluxes during extreme climatic events: new tools and methods
- 14:20 - 14:40 **Anne MANGENEY:** Landslide detection and characterization using the generated seismic waves
- 14:40 - 15:10 **Éléonore STUTZMANN:** Observing and modeling seismic noise
- 15:10 - 15:30 **Akito ARAYA:** Development of a laser-interferometric broadband seismometer for deep underground observations
- 15:30 - 15:50 **Sébastien de RAUCOURT:** The SELENE2 VBB seismometer
- 15:50 - 16:10 Tea Break

6 CÔTÉ JARDIN :
Restaurant



0 AMPHITHÉÂTRE



0 MÉDIATHÈQUE :
Poster Session
Coffee & Tea Break

