



Bertrand DELOUIS CURRICULUM VITAE

Biographical Data :

Date and place of birth: 12 may 1964, Limoges (France)

Nationality: French

Civil status: Divorced, with one child

Professional address:

Geosciences Azur

University of Nice

250, rue Albert Einstein
06560 Valbonne (France)

EDUCATION

1992 - 1996 Ph. D. in seismology under the direction of Prof. A. Cisternas,
University Louis Pasteur, Strasbourg.

1986 - 1989 Engineer degree in Geophysics, Institut de Physique du Globe,
University Louis Pasteur, Strasbourg.

1982 - 1986 B.A. degree in Earth Sciences, University of Paris XI.

PROFESSIONAL EMPLOYMENT

2001- present Associate professor “Maître de Conférence”, University of Nice – Sophia Antipolis
(France).

1997 - 2001 Swiss Federal Institut of Technology in Zürich (ETHZ).
First as “Wissenschaft Assistent”, then “Oberassistent”. Research and teaching
position, at the Swiss Seismological Service.

1996 - 1997 Institut de Physique du Globe de Strasbourg.
Research and teaching assistant in seismology.

1993 - 1996 Institut de Physique du Globe de Strasbourg.
Teaching assistant in seismology during the last three years of the Ph. D.
Co-organizator and participant to the aftershock field campaign following the
1995 (M=8) Antofagasta earthquake (northern Chile).

1990 - 1992 ORSTOM (now Institut de Recherche pour le Développement, IRD, France). Two years as a seismologist in Chile, during which I was in charge of the installation and of the operation of a regional seismic network.

PROFESSIONAL PROFILE

Seismologist, with current research interests focused on the seismic source modeling using a large spectra of geophysic data (broadband and strong motion records , GPS and InSar data), seismotectonics, and earthquake geology.

DIPLOMA TUTORING

2005- Co-supervisor of a Ph.D. degree diploma on seismotectonics and earthquake source studies in Taiwan

2004 - 2005 Co-supervisor of a Master' degree diploma on seismotectonics of central Taiwan

2002 - 2003 Co-supervisor of a Master' degree diploma on active tectonics and seismotectonics the Mercantour region, southern French-Italian Alps

1999 - 2002 Main supervisor of a Ph.D. degree on earthquake source study by joint inversion of teleseismic and InSar data, ETH Zürich.

2000 - 2002 Co-supervisor of a Ph.D. degree on paleoseismology in the Basel region, Switzerland, ETH Zürich.

1999 - 2002 Co-supervisor of a Ph.D. degree on seismic hazard assessment in Colombia, ETH Zürich.

1995 - 1996 Co-supervisor of a master's degree diploma on seismic attenuation in northern Chile, Institut de Physique du Globe de Strasbourg.

LANGUAGES:

French, English, Spanish, some German

PUBLICATIONS IN REFERENCED JOURNALS MOST RELEVANT FOR SAFER PROJECT

Delouis, B. and D. Legrand, **2007**. Mw 7.8 Tarapaca intermediate depth earthquake of 13 June 2005 (northern Chile): Fault plane identification and slip distribution by waveform inversion, *Geophysical Research Letters*, doi:10.1029/2006GL028193, 2007, in press.

Legrand, D., **Delouis, B.**, Dorbath, L., David, C., Campos, J., Marquéz, Thompson, J., and D. Comte, **2006**. Source parameters of the Mw=6.3 Aroma earthquake of July 24, 2001 (northern Chile) and its

aftershock sequence: a crustal event following the Mw=8.4 Arequipa subduction earthquake (southern Peru), *Journal of South American Earth Sciences*, In Press

Örgülü, G., **Delouis, B.**, Huang, B-S, and D. Legrand, **2005**. Discrimination of the fault plane by waveform modeling: A case study for moderate-sized earthquakes in Taiwan, *Bulletin of the Seismological Society of America*, 95 (5), 1825-1840.

Salichon, J., Lundgren, P., **Delouis, B.**, and D., Giardini, **2004**. Slip history of the 1999, October 16, Mw=7.1, Hector Mine earthquake (California) from the inversion of InSAR, GPS and teleseismic data, *Bulletin of the Seismological Society of America*, 94, 6, 2015-2027.

Delouis, B., Vallée, M., Meghraoui, M., Calais, E., Maouche, S., Lammali, K., Mahsas, A., Briole, P., Benhamouda, F., and K., Yelles, **2004**. Slip distribution of the 2003 Boumerdes-Zemmouri earthquake, Algeria, from teleseismic, GPS, and coastal uplift data, *Geophysical Research Letters*, 31, doi: 10.1029/2004GL020687, 2004.

Salichon, J., **Delouis, B.**, Lundgren, P., Giardini, D., Costantini, M., and P., Rosen, **2003**. Joint inversion of broadband teleseismic and InSAR data for the slip history of the Mw=7.7, Nazca ridge (Peru) earthquake of November 12, 1996, *Journal of Geophysical Research*, 108 (B2), doi:10.1029/2001JB000913, 2003.

Delouis, B., Giardini, D., Lundgren, P., and J., Salichon, **2002**. Joint inversion of InSAR, GPS, teleseismic and strong motion data for the spatial and temporal distribution of earthquake slip: Application to the 1999 Izmit Mainshock, *Bulletin of the Seismological Society of America*, 92, 278-299.

Delouis, B., Lundgren, P., Salichon, J. and D. Giardini, **2000**. Joint inversion of InSAR and teleseismic data for the slip history of the 1999 Izmit (Turkey) earthquake, *Geophysical Research Letters*, 27, 3389-3392.

Delouis, B. and D. Legrand, **1999**. Focal mechanism determination and identification of the fault plane of earthquakes using only one or two near-source seismic recordings, *Bulletin of the Seismological Society of America*, 89, 1558-1574.

Legrand D. and **B. Delouis**, **1999**. Determination of the fault plane using a single near-field seismic station with a finite-dimension source model, *Geophysical Journal International*, 138, 801-808.