

CURRICULUM VITAE

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PERSONAL INFORMATION

Date and Place of birth: 26 october 1954 at Vierzon, Cher, France

Citizenship: French

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Present Position: Professor at University Paris-Diderot- Paris VII Director of the Global Seismology Group, Institut de Physique du Globe, Paris, France.

ACADEMIC CURSUS

1994-1999: Junior member of Institut Universitaire de France.

1986-1988: Post-doctoral fellowship, Seismological Laboratory, California Institute of Technology (Pasadena- California) under the supervision of Professor Don Anderson.

1981-1986: State Thesis (Univ. Paris VI- CEA- 1986): "Deep Structure of the mantle from seismic surface waves".

1979-1981: 3rd cycle Thesis (Univ. Paris VI- oct. 1981): "Deep structure of the Pacific Ocean"

1974-1979: Masters in Physics in Orsay University (Univ. Paris XI) - D.E.A. of Solid Earth Geophysics - Agregation of Physics. (National Exam- 1979)

1974-1979: Position in Ecole Normale Supérieure (Physics, Cachan).

1972-1974: Math-Sup, Math-Spe (Preparatory classes), Lycée Descartes, Tours (37, France).

EMPLOYMENT

01/2008-03/2008: Visiting Professor at ERI (Earthquake Research Institute, University of Tokyo, Japan)

2003-2006: Director of Dept. STUE (Earth, Astronomy and Environment Sciences) at MRNT (Ministry of Research and New Technologies) then MESR (Ministry of Higher Education and Research).

08/2001- 07/2002: Visiting professor at California Institute of Technology, Seismolab and J.P.L. (Pasadena, CA, U.S.A.)

01/1994- 09/1994: Visiting professor at A.N.U. (Canberra, Australia).

1991-1994: Consultant of the Ministry of Education and Research (Direction de la Recherche et des Etudes Doctorales: Research and Doctoral Studies Direction).

1989- present: Professor of Geophysics, University Paris VII- Denis Diderot.

1984- 1989: Research Assistant at C.N.R.S. (National Scientific Research Council)

1981- 1984: C.E.A. (Atomic Energy Council) fellowship.

1979- 1981: PhD fellowship DGRST.

HONORS

- Bronze medal of CNRS: 1988 (given to the best young scientists)

- Nomination to IUF (University Institute of France): 1994

- Fellow of the American Geophysical Union: 2004

-Beno Gutenberg Medal EGU, 2010

RESEARCH INTERESTS

Mantle and Core (convection, dynamics and mineralogy)

Three-dimensional Structure of the Earth, Inversion of seismic data, Seismic Tomography of velocity and anisotropy.

Propagation of seismic waves in laterally heterogeneous, anisotropic, anelastic media (free oscillations, surface waves, body waves).

Seismic sources (earthquakes, glacial earthquakes, hum, ...)

Geophysical instrumentation (Seismometry, seismic networks, geophysical ocean bottom observatories and stations, planetary missions to Mars).

COURSES TAUGHT

Undergraduate level: Mathematics for Geophysics, Global Geodynamics, Gravimetry, Introduction to Seismology. The planet Earth, history and Environment.

Graduate level: Advanced Seismology, Seismology and Geodynamics, Seismic Imaging Techniques. For PhD students: Anisotropy in Earth sciences; Seismic noise.

- Coordinator of the European training site Seismo-IPG (2000-2004) (PhD students, Post-docs)

- French Coordinator of the European Training Network SPICE (2003-2007) and QUEST (2009-2013)(PhD students, Post-docs)

- Coordinator of the Erasmus Mundus Programme 2- Doctorate GeoDES (Geosciences Doctoral European School) submitted in April 2009.

STUDENT TRAINING

Undergraduate level: 27 students (Batchelor, 1st year of Mastère degree, "Maîtrise" training course),

Graduate level: 25 students in D.E.A. or Mastère Research (2nd year),

26 PhD students. (5 have positions in Universities, 1 in High school, 6 in CNRS (5 scientists, 1 research engineer), 9 in private companies, 2 in post-doc, 3 still in PhD-thesis).

PROFESSIONAL ACTIVITIES SINCE 1990

- 2006-2010: Chair of the Scientific Board of the European ITN (Initial Training Network) QUEST

- 2006-2010: Scientific Committee of IPEV (French Institute of Polar Research).

- 2006-2010: Scientific Committee of LIA-CNRS Montessus (Chilean-French laboratory).
- 2006-2010: Scientific Committee of IFCPAR (Indo-French Committee for the Promotion of Advanced Research).
- 2006-2010: Governing Board of Observatoire de Paris.
- 2005-2007: President of the Steering Committee of the ANR Programme "Catastrophes Telluriques".
- 2004-2008: French Coordinator of the European Research Training Network SPICE (Seismic wave Propagation and Imaging, a Consortium for Europe).
- **2003- 2006: Director of Dept. STUE** (Earth, Astronomy and Environment Sciences) at MRNT (Ministry of Research and New Technologies) then MESR (Ministry of Higher Education and Research).
- **1997- 2003: Director of the Seismology Department**, UMR-CNRS7580, Institut de Physique du Globe de Paris.
- 1990- present: Director of the Global Seismological Group, Department of Seismology, Institut de Physique du Globe de Paris.
- **1990- 2000: Director of Programme GEOSCOPE.**
- 1993-1997: Chairman of F.D.S.N. (Federation of Digital Seismograph Networks):.
- **1991-1994: Consultant of the Ministry of Education and Research.**
- 1999-2003: Secretary of I.O.N. (International Oceanic Network).
- 1993- 1999: Vice- Chairman of I.O.N. (International Oceanic Network).
- 1993- 1999: Coordinator of the French Program OFM (Observatoire Fond de Mer: Ocean Bottom Observatory).
- 1993- 2002: Scientific Committee of ODP-France:.
- 1995- 2001: Scientific Committee of IFRTP (French Institute of Polar Territories Research).
- 1991-1994: Vice- Chairman of F.D.S.N. .
- 1991-1997: Member of the Steering Committee of Orfeus.

OTHER ACTIVITIES.

- January 2011: Co-organizer of the Joint workshop CEFIPRA IPGP-NGRI. Port Blair, Andaman Islands, India. (30 participants)
- June-July 2010: Member of the Gutenberg Medal committee of EGU.
- June 2010: Co-organizer of the workshop IPG "Homage to Albert Tarantola (100 participants)
- April 2010: Co-convenor Session Time Reversal, SSA meeting, Portland, USA.
- September 2009: Member of nomination of Fellow Committee for Seismology (AGU).
- July 2009: Co-Convenor (V. Masson-Delmotte) of the Session "Terre-Climat" at the Symposium of S.F.P. (Société Française de Physique), Ecole Polytechnique, Palaiseau, France.
- June 2009: Member of the Review committee of Earthquake Research Institute, Univ. of Tokyo, Japan.
- April 2009: Co-organizer of the Joint workshop ERI-IPG. Tokyo University (40 participants)
- Jan. 2007-June 2009 : Editor of a special issue Earthquakes in subduction zones : a multidisciplinary approach , Phys. Earth Planet. Int., 175, 2009.
- October 2008: Organizer of the workshop, Ecole de Physique des Houches, France (70 people).
- May 2007: Organizer of the annual SPICE workshop, Ecole de Physique de Cargèse, Corsica, France (90 people).
- March 2007: Co-organizer of a workshop "Une Terre Anisotrope", IPG Paris (50 people).
- Nov. 2006: Organizer of the International Conference "1906 Valparaiso Earthquake- the contribution of F. Montessus de Ballore", Santiago, Chili.
- March 2006: Member of Evaluation committee of European Programme ECORD.
- March 2006: Member of the Review committee of OHP Program (ERI, Tokyo, Japan).
- 2005-2007: President of the Steering Committee of ANR Program "Catastrophes Telluriques".

- April 2005, 2006: Convener of the Session Core and deep mantle , EGU, Vienna.
- Nov. 15-16, 2004: Organizer of a colloquium in Ministry of Research "Observatories for environmental Research".
- 2004-2005: Member of Lehmann Committee (AGU), 2004-05
- April 2004: Convener Session Deep Earth , EGU, Nice.
- Sept. 22-27, 2003: Co-organizer of interdisciplinary workshop "Imaging of complex media with acoustic and seismic waves" (90 people), Cargese, France.
- April 2002: Convener Session Geophysical Instrumentation, EGS, Nice.
- July 9-14, 2001: Co-organizer of interdisciplinary workshop "Imaging of complex media with acoustic and seismic waves" (90 people), Cargese, France.
- April 26- May 8, 1999: Co-organizer of interdisciplinary workshop "Imaging of complex media with acoustic and seismic waves" (90 people), Cargese, France.
- 28-30 Oct. 1997: Organizer of IUF workshop "Aux Frontieres des Geosciences" (400 people), ENS, Lyon.
- Aug. 1997: Convenor of Symposium "Geodynamics and Seismic Anisotropy", IASPEI meeting, Thessaloniki.
- 4-9 May, 1996: Convenor of Symposium "10th Anniversary of the FDSN", EGS meeting, The Hague.
- 11-13 January 1995: Co-organizer of workshop ODP-ION "Multidisciplinary Observatories on the deep sea floor", Marseille.
- September 1992: Organizer of Symposium "10 Years of GEOSCOPE - Broadband Seismology", Paris.
- August 1991: Convenor of Symposium S4 (Seismic Anisotropy) of I.U.G.G. meeting (International Union of Geophysics and Geodesy), Wien, Austria.
- October 1991: Co-organizer of workshop "Seismic Anisotropy and Geodynamics", Montpellier.

Invited Conferences, 2001-2010 (Not during International Meetings or Conferences.)
2010

June: Dept. Earth Sciences, University of Sapporo, Hokkaido, Japan.

May 27: JpGU meeting, Tokyo, Japan

May 17-20: International workshop "Continental Geodynamics", CUG Wuhan

April: EGU, Vienna (for the Beno Gutenberg medal ceremony).

February: I.P.G. Paris

January: Institut Henri Poincaré, Paris.

2009:

November: Geosciences, Universit de Montpellier, France.

October: NGRI, Hyderabad, India

October: Franco-Japanese conference on Earthquake source, Orleans, France.

July: Orfeus workshop, Utrecht, Netherlands.

May: Collège de France, Paris

April: Workshop ERI-IPG, University of Tokyo, Japan.

January: Workshop Berkeley-IPGP

2008:

November: LMU, Munich, Germany.

October: Workshop Les Houches, France

September: ICTP, Trieste, Italy

June: Conférence grand public, Palais de la Découverte, Paris.

April: T.I.T., Tokyo, Japan.

March: University of Kyoto, Japan.

March: Workshop Seafloor observatories, Tokyo, Japan.
February: JAMSTEC, Yokohama, Japan.
January: Earthquake Research Institute, Tokyo, Japan.
January: DEPS, University of Tokyo, Tokyo, Japan.
2007:
October: Institute of Himalyan Geology, Dehra Dun, India.
October: Workshop "Acoustical Imaging of complex media", Cargese, France.
May: Annual SPICE meeting, Cargese, France
March: Colloque SEDIT, Lyon, France.
January: Conférence grand public sur les Panaches mantelliques, Museum National d'Histoire Naturelle.
January: GDR Ondes - IMCODE, Institut Henri Poincaré, Paris.
2006:
November: International Conference Montessus de Ballore, Santiago, Chili.
September: Colloque "La Réunion face aux risques naturels", CG de Saint-Denis, La Réunion.
September: ICTP, Trieste, Italy
July: Annual SPICE meeting, Kinsale, Ireland.
June: Russian - French cooperative research program Workshop, Paris.
March: Earthquake Research Institute, Tokyo University, Japan
2005:
March: Cefipra, New Delhi, India.
April: Dept. Geophysics and Geology, University of Santiago, Chile.
July: Workshop "Acoustical Imaging of complex media", Cargese, France.
August: International workshop "Utilization of seismograph networks within GEOSS", Washington DC, USA.
2004:
December: AGU fall meeting, invited talk.
October: ICTP, Trieste, Italy.
August: Ecole des Houches Géophysique, Exposé d'introduction.
May: Spring AGU, Montréal, Invited Talk.
2003:
November: MNHN, OCIM, Dept. des Galeries, Paris.
June: U. Gottingen, Germany.
March: U. Colorado, Boulder, USA.
January: Assemblée générale du CNFGG.
January: Grande Galerie de l'Évolution- Exposition "Himalaya- Tibet: le choc des continents".
January: Laboratoire d'Imagerie Paramétrique, Faculté de Médecine, Université Paris VI.
2002:
October: ICTP, Trieste, Italy.
August: Erice, Ettore Majorana Physics School, Italy.
June: Martian program- JPL, Pasadena, USA.
May: Earth Sciences- Stanford university
May: EAPS- UCLA, Los Angeles.
April: USGS, Menlo Park, USA.
February: GPS- CALTECH, Pasadena, USA.
2001:
November: Seismolab- UC Berkeley, Berkeley, USA.
September: Seismolab- Caltech, USA.
June: Earth Sciences- ETH, Zurich, Switzerland.
January: ION-OHP Symposium, Mount Fuji, Japan.

PUBLICATIONS in Peer-reviewed journals

- 1- Montagner, J.P. and N. Jobert, Investigation of upper mantle structure under young regions of the South-East Pacific using long-period Rayleigh waves, *Phys. Earth Planet. Int.*, **27**, 206-222, 1981.
- 2- Montagner, J.P. and N. Jobert, Variation with age of the deep structure of the Pacific Ocean inferred from very long-period Rayleigh wave dispersion, *Geophys. Res. Lett.*, **10**, 273-276, 1983.
- 3- Dorbath L. and J.P. Montagner, Upper mantle heterogeneities in Africa deduced from Rayleigh wave dispersion, *Phys. Earth Planet. Int.*, **32**, 218-225, 1983.
- 4- Montagner, J.P., Seismic anisotropy of the Pacific Ocean inferred from long -period surface waves dispersion, *Phys. Earth Planet. Int.*, **38**, 28-50, 1985.
- 5- Bethoux, N., F. Petit, J.P. Rehaut, B. Massinon, and J.P. Montagner, Several location methods for underwater shots in the Gulf of Genoa (Western Mediterranean): Structural implications, *Tectonophys.*, **128**, 357-379, 1986.
- 6- Montagner, J.P., Regional three-dimensional structures using long-period surface waves, *Ann. Geophys.*, **4**, B3, 283-294, 1986a.
- 7- Montagner, J.P., Three- dimensional structure of the Indian Ocean inferred from long- period surface waves, *Geophys. Res. Lett.*, **13**, 315-318, 1986b.
- 8- Montagner, J.P., and H.C. Nataf, A simple method for inverting the azimuthal anisotropy of surface waves, *J. Geophys. Res.*, **91**, 511-520, 1986.
- 9- Roullet, G., D. Rouland, and J.P. Montagner, Phase velocity distribution in the Indian Ocean inferred from Geoscope records, *Geophys. Res. Lett.*, **14**, 343-346, 1987.
- 10- Montagner, J.P. and H.C. Nataf, Vectorial Tomography. I: Theory, *Geophys. J.R. astr. Soc.*, **94**, 295-307, 1988.
- 11- Montagner, J.P. and N. Jobert, Vectorial Tomography. II: Application to the Indian Ocean, *Geophys. J.R. astr. Soc.*, **94**, 309-344, 1988.
- 12- Montagner, J.P., D. Rouland and G. Roullet, Structure profonde de l'Océan Indien déduite des ondes sismiques, Actes du Colloque sur la Recherche Française dans les Terres Australes, 381-390, 1988.
- 13- Hadiouche, O., N. Jobert, and J.P. Montagner, Anisotropy of the African continent inferred from surface waves, *Phys. Earth Planet. Int.*, **58**, 61-81, 1989.
- 14- Ho-Liu, P., J.P. Montagner, and H. Kanamori, Comparison of Iterative Back-projection Inversion and Generalized Inversion without blocks: Case studies in Attenuation Tomography, *Geophys. J.*, **97**, 19-29, 1989.
- 15- Mocquet, A., B. Romanowicz, and J.P. Montagner, Three-dimensional structure of the upper mantle beneath the Atlantic Ocean inferred from long period Rayleigh waves. I: Group and phase velocity distributions *J. Geophys. Res.*, **94**, 7449- 7468, 1989.
- 16- Montagner, J.P., and Don L. Anderson, Petrological constraints on seismic anisotropy, *Phys. Earth Planet. Inter.*, **54**, 82-105, 1989a.
- 17- Montagner, J.P., and Don L. Anderson, Constrained reference Earth model, *Phys. Earth Planet. Int.*, **58**, 205- 227, 1989b.
- 18- Montagner, J.P., P. Ho-Liu, and H. Kanamori, Reply to comment by J. Trampert, *Geophys. J. Int.*, **103**, 757- 758, 1990.
- 19- Roullet, G., B. Romanowicz and J.P. Montagner, 3D upper mantle shear velocity and attenuation from fundamental mode free oscillation data, *Geophys. J. Int.*, **101**, 61-80, 1990.
- 20- Montagner, J.P. and T. Tanimoto, Global anisotropy of the upper mantle inferred from the regionalization of phase velocities, *J. Geophys. Res.*, **95**, 4797- 4819, 1990.
- 21- Montagner, J.P., and T. Tanimoto, Global upper mantle tomography of seismic velocities and anisotropies, *J. Geophys. Res.*, **96**, 20,337- 20,351, 1991.

- 22- Ho-Liu P., Johnson C., Montagner J.P., Kanamori H., Clayton R.W., Three-Dimensional attenuation structure of Kilauea-East Rift zone, Hawaii, *J. Geophys. Res.*, Fate unknown, 1992.
- 23- Bussy, M., J.P. Montagner, and B. Romanowicz, Tomographic study of upper mantle attenuation in the Pacific Ocean, *Geophys. Res. Lett.*, **20**, 663-667, 1993.
- 24- Humler, E., J.L. Thiriot, and J.P. Montagner, Global correlations of ocean ridge basalt chemistry with seismic tomographic images, *Nature*, **364**, 225-228, 1993.
- 25- Mainprice, D., A. Vauchez, and J.P. Montagner, Special Issue: Seismic Anisotropy in the Mantle and Geodynamics of Orogenic belts, Preface, Workshop La Grande Motte, France (Oct 1-3, 1991), *Phys. Earth Planet. Int.*, **78**, 1993.
- 26- Montagner, J.P., and B. Romanowicz, Degrees 2, 4, 6 inferred from seismic tomography, *Geophys. Res. Lett.*, **20**, 631-634, 1993.
- 27- Stutzmann, E., and J.P. Montagner, An inverse technique for retrieving higher mode phase velocity and mantle structure, *Geophys. J. Int.*, **113**, 669-683, 1993.
- 28- Montagner, J.P., Can Seismology tell us anything about convection in the mantle? *Rev. Geophys. Space Phys.*, **32**, 115-137, 1994.
- 29- Montagner, J.P., J.F. Karczewski, B. Romanowicz, S. Bouaricha, P. Lognonné, G. Roul, E. Stutzmann, J.L. Thiriot, D. Fouassier, J.C. Koenig, J. Savary, L. Floury, J. Dupond, A. Echardour, H. Floc'h, The French Pilot experiment OFM/SISMOBS: First scientific results on noise and event detection, *Phys. Earth Planet. Int.*, **84**, 321-336, 1994.
- 30- Montagner, J.P., B. Romanowicz, and J.F. Karczewski, The French Pilot experiment OFM/SISMOBS: A first step towards a permanent geophysical observatory, *EOS*, **75**, 150-154, 1994.
- 31- Roul, G., D. Rouland, and J.P. Montagner, Antarctica II: upper mantle structure from seismic velocities and anisotropy, *Phys. Earth Planet. Int.*, **84**, 33-57, 1994.
- 32- Stutzmann, E., and J.P. Montagner, Tomography of the transition Zone from the inversion of higher mode surface waves, *Phys. Earth Planet. Int.*, **86**, 99-115, 1994.
- 33- Montagner, J.-P., E. Stutzmann, and Y. Capdeville, Hotspot detection from Seismological data. In D. Anderson, S. Hart and A. Hofmann (Eds) *Plume 2, Terra Nova*, **3**, 103-106, 1995.
- 34- Montagner, J.P., Surface waves on a global scale - Influence of anisotropy and anelasticity, Summer School of Erice, "Seismic Modeling of the Earth's Structure", Eds. Boschi, Ekstrom, Morelli, pp. 81-148, 1996.
- 35- Beauduin, R., P. Lognonné, J.-P. Montagner, S. Cacho, J.-F. Karczewski, M. Morand, The effects of the atmospheric pressure changes on seismic signals or how to improve the quality of a station, *Bull. Seismol. Soc. Am.*, **86**, 1760-1769, 1996.
- 36- Beauduin, R., J.-P. Montagner, J.-F. Karczewski, Time evolution of broadband seismic noise during the French Pilot experiment OFM/SISMOBS, *Geophys. Res. Lett.*, **23**, 2995-2998, 1996.
- 37- Lavé, J., J.-P. Avouac, R. Lacassin, J.-P. Montagner, and P. Tapponnier, Seismic anisotropy beneath Tibet: Evidence for eastward extrusion of the Tibetan lithosphere, *Earth Planet. Sci. Lett.*, **140**, 83-96, 1996.
- 38- Montagner, J.P., and B.L.N. Kennett, How to reconcile body-wave and normal-mode reference Earth models? *Geophys. J. Int.*, **125**, 229-248, 1996.
- 39- Ricard, Y., H.C. Nataf, and J.P. Montagner, The 3S-MAC model: Confrontation with seismic data, *J. Geophys. Res.*, **101**, 8457-8472, 1996.
- 40- Vinnik, L.P., and J.-P. Montagner, Shear wave splitting in the mantle Ps phases, *Geophys. Res. Lett.*, **23**, 2449-2452, 1996.
- 41- Gouget, K., P. Lognonne, and J.-P. Montagner, CMT determination by inversion of long period waveform inversion in a laterally heterogeneous Earth, *Geophys. Res. Lett.*, 1997.
- 42- Vinnik, L.P., S. Chevrot, and J.-P. Montagner, Evidence for a stagnant plume in the transition zone, *Geophys. Res. Lett.*, **24**, 1007-1010, 1997.

- 43- Babuska, V., J.-P. Montagner, J. Plomerova, and N. Girardin, Age-dependent large scale fabric of the mantle lithosphere as derived from surface-wave velocity anisotropy, *P. Appl. Geophys.*, **151**, 257-280, 1998.
- 44- Chevrot, S., J.-P. Montagner, and R. Snieder, The spectrum of tomographic Earth models, *Geophys. J. Int.*, **133**, 783-788, 1998.
- 45- Gouget, K., P.F. Ihmle, J. Campos, and J.-P. Montagner, Self-consistent retrieval of source parameters using mantle waves, *Bull. Seismol. Soc. Am.*, **88**, 995-1002, 1998.
- 46- Griot, D.-A., J.-P. Montagner, and P. Tapponnier, Surface wave phase velocity and azimuthal anisotropy in Central Asia, *J. Geophys. Res.*, **103**, 21215-21232, 1998a.
- 47- Griot, D.-A., J.-P. Montagner, and P. Tapponnier, Heterogeneous versus homogeneous strain in Central Asia, *Geophys. Res. Lett.*, **25**, 1447-1450, 1998b.
- 48- Montagner, J.-P., Where is located seismic anisotropy in the Earth mantle? In boundary layers..., *Pure appl. geophys.*, **151**, 223-256, 1998.
- 49- Montagner, J.-P., P. Lognonné, J.-F. Karczewski, G. Roult, E. Stutzmann, and R. Beauquin, Towards a multiscalar and multiparameter network for the next century, the French efforts, *Phys. Earth Planet. Int.*, **108**, 155-174, 1998.
- 50- Romanowicz, B., Stakes, D.S., J.-P. Montagner, P. Tarits, R. Urhammer, M. Begnaud, E. Stutzmann, M. Pasyanos, J.-F. Karczewski, S. Etchemendy, D. Neuhauser, MOISE: A Pilot experiment towards long-term sea-floor geophysical observatories, *J. Phys. Earth*, **50**, 927-937, 1998.
- 51- Silveira, G., E. Stutzmann, J.-P. Montagner, and L. Mendes-Victor, Anisotropic tomography of the Atlantic Ocean from Rayleigh surface waves, *Phys. Earth Planet. Int.*, **106**, 259-275, 1998.
- 52- Stakes, D.S., B. Romanowicz, J.-P. Montagner, P. Tarits, J.-F. Karczewski, S. Etchemendy, C. Dawe, D. Neuhauser, P. McGill, J.-C. Koenig, J. Savary, M. Begnaud, and M. Pasyanos, Seismic experiment paves way for long-term seafloor observatories, *E.O.S.*, **79**, 303-309, 1998.
- 53- Thiriot, J.L., J.P. Montagner, and L. Vinnik, Upper mantle discontinuities in a subduction zone: evidences for large lateral variations, *Phys. Earth Planet. Int.*, **108**, 61-80, 1998.
- 54- Vinnik, L.P., S. Chevrot, and J.-P. Montagner, Seismic evidence of flow at the base of the upper mantle, *Geophys. Res. Lett.*, **25**, 1995-1998, 1998.
- 55- Beucler, E., S. Chevrot, and J.-P. Montagner, The Snake River Plain experiment revisited. Relationships between a Farallon plate segment and the transition zone, *Geophys. Res. Lett.*, **26**, 2673-2676, 1999.
- 56- Chevrot, S., L. Vinnik, and J.-P. Montagner, Global patterns of upper mantle from Ps converted waves, *J. Geophys. Res.*, **104**, 20203-20219, 1999.
- 57- Harri, A.-M., O. Marsal, P. Lognonné, ... Netlander Science Team (J.-P. Montagner), Network Science Landers for mars, *Adv. Space Res.*, **23**, 1915-1924, 1999.
- 58- Lognonné, P., D. Giardini, B. Banerdt, J. Gagnepain-Beyneix, A. Mocquet, T. Spohn, J.-F. Karczewski, P. Schibler, S. CAcho, W.T. Pike, C. Cavoit, A. Desautez, J. Pinassaud, D. Breuer, M. Campillo, P. Defraigne, V. Dehant, A. Deschamps, J. Hinderer, J.-J. Lévêque, J.-P. Montagner, J. Oberst, The NetLander Very Broadband Seismometer, *Planet. Space Sc.*, **48**, 1289-1302, 2000.
- 59- Montagner, J.-P., Plume detection from seismological data, *Electronic Geosciences*, 1999.
- 60- Roult, G., J.-P. Montagner, E. Stutzmann, S. Barbier, G. Guiveneux, The GEOSCOPE program: its data center, *Phys. Earth Planet. Int.*, **113**, 25-43, 1999.
- 61- Singh, S.C., and J.-P. Montagner, Anisotropy of iron in the Earth's inner core, *Nature*, **400**, 629, 1999.
- 62- Vinnik, L., S. Chevrot, J.-P. Montagner, and F. Guyot, Teleseismic travel time in North America and anelasticity in the asthenosphere, *Phys. Earth Planet. Int.*, **116**, 93-103, 1999.
- 63- Battaglia, J., K. Aki, and J.-P. Montagner, Tilt variations observed at a GEOSCOPE VBB station on the Piton de la Fournaise volcano, *Geophys. Res. Lett.*, **27**, 605-608, 2000.

- 64- Capdeville, Y., E. Stutzmann, and J.-P. Montagner, Effect of a plume on long-period surface waves computed with normal modes coupling, *Phys. Earth planet. Int.*, **119**, 57-74, 2000.
- 65- Montagner, J.-P., and L. Guillot, Seismic Anisotropy Tomography, "Problems in Geophysics for the Next millenium; Eds. Enzo Boschi, Göran Ekström and Andrea Morelli, 217-254, 2000.
- 66- Montagner, J.-P., D.-A. Griot, and J. Lavé, How to relate body wave and surface wave anisotropy?, *J. Geophys. Res.*, **105**, 19,015-19,028, 2000.
- 67- Singh, S.C., M.A. Taylor, and J.-P. Montagner, On the presence of fluids in the Earth 's inner core, *Science*, **287**, 2471-2474, 2000.
- 68- Montagner, J.-P., and J. Ritsema, Interactions between Ridges and Plumes, *Science*, **294**, 1472-1473, 2001.
- 69- Stutzmann, E., J.-P. Montagner, W.C. Crawford, J.-L. Thiriot, P. Tarits, A. Sebai, D. Stakes, B. Romanowicz, J.-F. Karczewski, D. Neuhauser, and S. Etchemendy, MOISE: A prototype multiparameter ocean bottom station, *Bull. Soc. Seism. Am.*, **91**, 885-892, 2001.
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