

## PUBLICATIONS

### MONTAGNER Jean-Paul

#### 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, *Tectonophysics.*, **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. Roullet, 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- Roullet, 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. Beauvuin, 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. Thiot, 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.
- 70- Capdeville, Y., C. Larmat, J.-P. Vilotte, and J.-P. Montagner, Direct numerical simulation of the scattering induced by a localized plume using a coupled spectral element and modal solution, *Geophys. Res. Lett.*, **29**, 10,1029, 2002.
- 71- Montagner, J.-P., Upper mantle Low Anisotropy Channels below the Pacific plate, *Earth Planet. Sci. Lett.*, **202**, 263-274, 2002.
- 72- Montagner, J.-P., Seismic Anisotropy Tomography, Workshop on Imaging of Complex Media with Acoustic and Seismic Waves, Cargèse, Eds M. Fink, W. Kuperman, J.-P. Montagner, *Topics Appl. Phys.*, **84**, 191-231, 2002.
- 73- Montagner, J.-P., J.-F. Karczewski, E. Stutzmann, G. Roullet, W.C. Crawford, P. Lognonné, L. Béguery, S. Cacho, G. Coste, J.-C. Koenig, J. Savary, B. Romanowicz, and D. Stakes, Geophysical Ocean Bottom Observatories or temporary portable networks? Erice workshop Proc., Developments in Marine Technology, **12**, 59-82, 2002.
- 74- Simons, F.J., R.D. van der Hilst, J.-P. Montagner, and A. Zielhuis, Multimode Rayleigh wave inversion for shear wave speed heterogeneity and azimuthal anisotropy of the Australian upper mantle, *Geophys. J. Int.*, **151**, 738-754, 2002.
- 75- Stakes D., B. Romanowicz, M.L. Begnaud, K. McNally, J.-P. Montagner, E. Stutzmann, and M. Pasyanos, The MBARI Margin Seismology Experiment: A Prototype Seafloor Observatory, Erice workshop Proc., Developments in Marine Technology, **12**, 93-110, 2002.
- 76- Beucler, E., E. Stutzmann, and J.-P. Montagner, Measuring surface wave higher mode velocities by the Roller Coaster Algorithm, *Geophys. J. Int.*, **155**, 289-307, 2003.
- 77- Capdeville, Y., E. Chaljub, J.-P. Vilotte, and J.-P. Montagner, Coupling Spectral Elements and Modal solution: A new efficient tool for numerical wave propagation in laterally Heterogeneous Earth models, *Geophys. J. Int.*, **152**, 34-66, 2003.
- 78- Gaboret, C., A. Forte, and J.-P. Montagner, The Unique Dynamics of the Pacific Hemisphere Mantle and its Signature on Seismic Anisotropy, *Earth Planet. Sci. Lett.*, **208**, 219-233, 2003.
- 79- Montagner, J.-P., and L. Guillot, Seismic Anisotropy and global geodynamics, *Min. Soc. Am.*, **51**, 353-385, 2003.
- 80- Vinnik L., J.-P. Montagner, N. Girardin, I. Dricker, and J. Saul, First measurements of SKS splitting on the oceanic floor at station H2O: A comment, *Geophys. Res. Lett.*, **30(13)**, 1675, 2003.
- 81- Beucler, E., and J.-P. Montagner, Computation of large anisotropic seismic heterogeneities, *Geophys. J. Int.*, **165**, 447-468, 2006.
- 82- Bukchin, B., T. Yanovskaya, J.-P. Montagner, A. Mostinskiy, and E. Beucler, Surface wave focusing effect: numerical modeling and observations, *Phys. Earth Planet. Int.* **155** , 191-200, 2006.

- 83- Larmat C., J.P. Montagner, M. Fink, E. Clévéde, and A. Tourin, Time-reversal Imaging of Seismic Sources- Application to the Sumatra earthquake, *Geophys. Res. Lett.*, **33**, L19312, doi:10.1029/2006GL026336, 2006.
- 84- Qin, Y., Y. Capdeville, V. Maupin, and J.-P. Montagner, A SPICE blind test to benchmark global tomographic methods, *EOS*, **87**, 46, 512–513, 2006.
- 85- Sebai, A., E. Stutzmann and J.-P. Montagner, Anisotropic structure of the African upper mantle structure from Rayleigh and Love wave tomography, *Phys. Earth Planet. Int.*, **155**, 48–62, 2006.
- 86- Silveira, G., E. Stutzmann, A. Davaille, J.-P. Montagner, and L. Mendes-Victor, Azores hotspot signature in the upper mantle, *J. Volc. Geotherm Res.*, **156**, 23-24, 2006.
- 87- Suyehiro, K., J.-P. Montagner, R. Stephen, E. Araki, T. Kanazawa, J. Orcutt, B. Romanowicz, S. Sacks, and M. Shinohara, Ocean Seismic Observatories, *Oceanography*, **19**, 4, 2006.
- 88- Houlié, N., and J.-P. Montagner, Ultra - Long Period (ULP) precursors events detected at the Piton de la Fournaise volcano (Reunion Island, France), *Earth Planet. Sci. Lett.*, **261**, 1-8, 2007.
- 89- Montagner, J.-P., B. Marty, D. Sicilia, M. Cara, R. Pik, E. Stutzmann, A. Sebai, J.-J. Leveque, G. Roul, E. Beucler, E. Debayle, Mantle upwellings and convective instabilities revealed by seismic tomography and helium isotope geochemistry beneath eastern Africa, *Geophys. Res. Lett.*, **34**, L21303, doi:10.1029/2007GL031098, 2007.
- 90- Guillot, L., J.-P. Montagner, and F. Guyot, Intrinsic temperature properties and elastic constants of cubic minerals at HP-HT conditions: case of MgO, *Phys. Earth Planet. Int.*, in press, 2007.
- 91- Kawakatsu, H. and J.-P. Montagner, Time-reversal seismic source imaging and moment tensor inversion, *Geophys. J. Int.*, **175**, 686–688, doi: 10.1111/jl.365-246X.2008.03926.x, 2008.
- 92- Larmat C., J.P. Montagner, B. Banerdt, P. Lognonné and J.P. Vilotte, Numerical assessment of the effects of topography and crustal thickness on Martian seismograms by using Spectral Elements and Modal solution, *Icarus*, **196**, 78–89, 2008.
- 93- Larmat, C., J. Tromp, Q. Liu and J.-P. Montagner, Time reversal location of glacial earthquakes, *J. Geophys. Res.*, **113**, B09314, doi:10.1029/2008JB005607, 2008.
- 94- Montagner J.-P., and G. Roul, Normal Modes of the Earth- Observations from the Giant Sumatra-Andaman Earthquake of 2004, Conference Series, *J. Phys.*, **118**, doi:10.1088/1742-6596/118/1/012004, 2008.
- 95- Qin, Y., Y. Capdeville, V. Maupin, J.-P. Montagner, S. Lebedev, and E. Beucler, SPICE Benchmark for global tomographic methods, *Geophys. J. Int.*, **175**, 598–616, doi: 10.1111/jl.365-246X.2008.03904.x, 2008.
- 96- Sicilia, D., J.-P. Montagner, M. Cara, E. Stutzmann, E. Debayle, J.C. Lepine, J.J. Lévêque, E. Beucler, A. Sebai, G. Roul, A. Ayele, J.M. Sholan, Upper Mantle Structure of Shear-wave velocities and Stratification of Anisotropy in the Afar Hotspot region, *Tectonophys.*, doi: 10.1016/j.tecto.2008.02.016, 2008.
- 97- Montagner, J.-P., V. Clouard, J. Campos, A. Cisternas, M. Gerbault, B. Romanowicz, Earthquakes in subduction zones: a multidisciplinary approach, Special Issue, *Phys. Earth Planet. Int.*, doi: 10.1016/j.pepi.2009.03.001, 2009.
- 98- Montagner, J.-P., M. Fink, C. Larmat C., Y. Capdeville, H. Nguyen, and B. Romanowicz, Time-reversal Method and cross-correlation techniques by normal-mode theory, *Geophys. J. Int.*, in preparation, 2009.
- 99- Houlié, N., and J.-P. Montagner, Reply to: "A comment on "Hidden dykes detected on Ultra Long Period seismic signals at Piton de la Fournaise volcano ?" by N. Houli and J.-P. Montagner, EPSL 261, (2007)" By Battaglia and Cayol, *Earth Planet. Sci. Lett.*, **287**, 288-291, doi:10.1016/j.epsl.2009.06.023., 2009.

- 100- Nishida, K., J.-P. Montagner, and H. Kawakatsu, Global Surface wave tomography Using Seismic Hum, *Science*, **326**, 5949, 112, doi:10.1126/science1176389, 2009.
- 101- Qin, Y., Y. Capdeville, J.-P. Montagner, L. Boschi, and T.W. Becker, Reliability of mantle tomography models assessed by spectral-element simulation, *Geophys. J. Int.*, **177**, 125-144, doi: 10.1111/jl.365-246X.2008.04032.x, 2009.
- 102- Wüstefeld, A., G. Bokelmann, G. Barruol, and J.-P. Montagner, Identifying global seismic anisotropy patterns by correlating shear-wave splitting and surface wave data, *Phys. Earth Planet. Int.*, doi:10.1016/j.pepi.2009.05.006 2009.
- 103- Isse, T., H. Shiobara, J.-P. Montagner, H. Sugioka, A. Ito, A. Shito, T. Kanazawa, and K. Yoshizawa, Anisotropic structures of the upper mantle beneath the northern Philippine sea region from Rayleigh and Love wave tomography, *Phys. Earth Planet. Int.*, in press, 2010.
- 104- Obrebski, M., S. Kiselev, L. Vinnik, and J.-P. Montagner, Stratification of seismic anisotropy in the crust and upper mantle beneath Africa from joint inversion of SKS and P receiver functions, *J. Geophys. Res.*, in press, 2010.
- 105- Roult, G., J.-P. Montagner, B. Romanowicz, M. Cara, D. Rouland, R. Pillet, J.-F. Karczewski, L. Rivera, E. Stutzmann, and A. Maggi, The GEOSCOPE Program: Progress and Challenges during the last 25 years, *Seism. Res. Lett.*, **81**, **3**, doi:10.1785/gssrl.81.3.428, 2010.
- 106- Yao, H., R. van der Hilst, J.-P. Montagner, Heterogeneity and Anisotropy of the Lithosphere of SE Tibet from ambient noise and surface wave array tomography, *J. Geophys. Res.*, in press, 2010.
- 107- Durand S., J.-P. Montagner, P. Roux, and F. Brenguier, Passive monitoring of anisotropy change for the 2004 Parkfield earthquake, *Nature*, in review, Nov. 2009.

## Books

- 1- Montagner, J.-P., Sismologie- La Musique de la Terre, Coll. Les Fondamentaux, Hachette, 156pp., 1997.
- 2- Gillet P., and Montagner, J.-P., La Géophysique des milieux extrêmes, Numéro spécial I.U.F., *Bull. Soc. Geol. Fr.*, **170**, 1999.
- 3- Fink, M., Kuperman, W., J.-P. Montagner, and A. Tourin Imaging of Complex Media with Acoustic and Seismic Waves, Springer, Berlin, 338pp., 2002.
- 4- Montagner, J.-P., Himalaya- Tibet, Le choc des Continents, La Terre: Une gigantesque machine thermique, CNRS Editions, Chap. 1, 12-19, 2002.
- 5- Montagner, J.-P., Upper mantle Structure: Global isotropic and anisotropic tomography, Treatise on Geophysics, Vol 1 : Seismology and Structure of the Earth (Eds. A.M. Dziewonski, B. Romanowicz), 2007.
- 6- Grappin, C., P. Cardin, B. Goffé, L. Jolivet & J.-P. Montagner, (ouvrage collectif), Terre Planète Mystérieuse, AIPT, Ed Cherche-Midi, 2008.
- 7- Montagner, J.P., Imager la Terre pour mieux l'imaginer, AIPT-"La Terre, Plante Mystérieuse", Ed Cherche-Midi, 2008.

## Other publications (Popular journals, No peer reviewed papers)

- 1- Cazenave A. and J.P. Montagner, Noyau et Manteau. Introduction, *Courrier du C.N.R.S.*, **76**, 9-11, 1990.
- 2- Montagner J.P. and B. Romanowicz, Le Scanner de la Terre: la tomographie sismique, *Courrier du C.N.R.S.*, **76**, 13-15, 1990.
- 3- Montagner, J.P., and B. Romanowicz, Hétérogénéités du manteau - Réseau GEOSCOPE. *Rapport quadriennal, C.N.F.G.G.*, 49-63, 1991.

- 4- Montagner, J.P., J.F. Karczewski, L. Flourey, and P. Tarits, Towards a geophysical ocean bottom observatory, *Seismic Waves*, **3**, 7-9, 1994.
- 5- Roullet, G., and J.P. Montagner, The Geoscope Program, in the "1994 status Report of the Federation of Digital Seismographic Networks", *Annali di Geofisica* , **27**, 1054-1059, 1994.
- 6- Montagner, J.P., "Observatoires Polyvalents sur le fond de la Mer", *ODP-France Information*, **11**, 6, 1995.
- 7- Montagner, J.-P., and Y. Lancelot, Editors of Proceedings, 230pp., ION/ODP Workshop "Multidisciplinary Observatories on the deep sea floor", Marseilles, Jan 1995. 17-27, 1995.
- 8- Cacho, S., J.F. Karczewski, J.-P. Montagner, P. Lognonne, M. Morand, and R. Beauclin, Which Broadband seismometer in Ocean Bottom Observatory? Preliminary results of simultaneous of seismic signals using STS-1, STS-2, CMG-3 during May 1993 at St-Sauveur (France), Proc. ION/ODP Workshop "Multidisciplinary Observatories on the deep sea floor", Marseilles, Jan 1995, 82-87, 1995.
- 9- Montagner, J.-P., and B. Romanowicz, Global Seismology, Proc. ION/ODP Workshop "Multidisciplinary Observatories on the deep sea floor", Marseilles, Jan 1995, 17-27, 1995.
- 10- Montagner, J.-P., and G. Roullet, The GEOSCOPE Program and its data center, *Orfeus News.*, 1998.
- 11- Montagner, J.-P., Tomographie des objets géologiques à toutes les échelles, Numéro spécial, Symposium I.U.F., Lyon, Oct. 97, *Bull. Soc. Geol. Fr.*, published, 1999.
- 12- Montagner, J.-P., La Tomographie de la Terre, Entretiens de la Physique, S.F.P., EDPsciences, 45-67, 1998.
- 13- Montagner, J.-P., Une Planète bien turbulente, *Revue du Palais de la Découverte*, RST 2000., **277**, 28-37, 2000.
- 14- Silveira G., S. vander Lee, E. Stutzmann, L. Matias, D. James, P. Burkett, M. Miranda, L. Mendes-Victor, J.L. Gaspar, L. Senos, S. Solomon, J.-P. Montagner, D. Giardini, Coordinated Seismic experiment in Azores, *Orfeus Electronic Newsletter*, **4**, **2**, 2002.
- 15- Montagner, J.-P., Les panaches mantelliques: des chalumeaux mythiques, *Pour la Science*, Décembre 2004.
- 16- Montagner, J.-P., La Terre, une gigantesque machine thermique, Quels Acquis pour demain? Muséum National d'Histoire Naturelle, in **Muséums en Rénovation**, Les Editions du Muséum, pp 73-89, 2005.
- 17- Montagner, J.-P., Numéro Spécial ORE (Observatoires de Recherche en Environnement), Editorial, *Lettre du Changement Global*, **18**, 1-6, 2005.
- 18- Montagner, J.-P., Les limites de l'exploration de la Terre Profonde, *Pour la Science*, **370**, Août 2008.
- 19- Montagner, J.P., Imager la Terre pour mieux l'imaginer, AIPT-"Terre, Planète Mystérieuse", Ed Cherche-Midi, 101-106, 2008.
- 20- Montagner, J.-P., Les panaches: mythe ou réalité, *Pour la Science*, Numéro Spécial "La Terre à coeur Ouvert", 2010.