

PUBLICATIONS RESIF-SISMOB DEPUIS 2009

Publications utilisant des données Résif-SisMob

RESIF-SISMOB PUBLICATIONS SINCE 2009

Publications from Resif-SisMob data

Sept. 2020

Avertissement : De nombreuses publications ne mentionnent pas directement ou clairement l'origine des données utilisées (notamment lorsque ces données proviennent de bases de données agrégatives). Il est donc impossible d'établir une liste exhaustive des publications basées sur les ressources Résif. La liste qui suit offre cependant un aperçu du large éventail des travaux de recherche scientifiques rendues possibles par Résif. Outre les articles de revues, elle inclut les documents de type : thèse, carte, ouvrage et chapitre d'ouvrage, communications à des congrès. Elle comporte, au 11 mai 2020, 936 publications dont les références sont classées par ordre alphabétique des premiers auteurs. Elle court de 2009 à mai 2020, mais mentionne quelques publications entre 1996 et 2008.

Warning : Many publications do not directly or clearly mention the origin of the data used (especially when these data come from aggregated databases). It is therefore impossible to draw up an exhaustive list of publications based on Resif resources. However, the following list provides an overview of the wide range of scientific research made possible by Resif. In addition to journal articles, it includes documents such as thesis, maps, books and book chapters, and conference papers. It includes, as of 11 May 2020, 936 publications whose references are listed in alphabetical order of first authors. It covers the period from 2009 to May 2020, but mentions a few publications between 1996 and 2008.

1. Barruol G, Bonnin M; Pedersen H; Bokelmann GHR; Tiberi C (2011). Belt-parallel mantle flow beneath a halted continental collision : the Western Alps. *Earth and Planetary Science Letters*, 302 (3) pp. 429-438 - DOI: 10.1016/j.epsl.2010.12.040
2. Barruol G, Sigloch K (2013). Investigating La Réunion hot spot from crust to core. *EOS Transactions American Geophysical Union*, 94 (23) pp. 205-207 - DOI: 10.1002/2013EO230002.
3. Barruol G, Suetsugu D; Shiobara H; Sugioka H; Tanaka S; Bokelmann G; Fontaine FR; Reymond D (2009). Mapping upper mantle flow beneath French Polynesia from broadband ocean bottom seismic observations. *Geophysical Research Letters*, 36 (14) - DOI: 10.1029/2009GL038139
4. Barruol G, Cordier E; Bascou J; Fontaine FR; Legrésy B; Lescarmontier L (2013). Tide-induced microseismicity in the Mertz glacier grounding area, East Antarctica. *Geophysical Research Letters*, 40 (20) pp. 5412-5416 - DOI: 10.1002/2013GL057814
5. Beaucé E, Frank WB; Paul A; Campillo M; Van der Hilst RD (2019). Systematic detection of clustered seismicity beneath the South-Western Alps. *Journal of Geophysical Research - Solid Earth*, 124 (11) pp. 11531-11548 - DOI: 10.1029/2019JB018110
6. Beaucé E, Franck WB; Romanenko A (2017). Fast Matched Filter (FMF) : an efficient seismic matched-filter search for both CPU and GPU architectures. *Seismological Research Letters*, 89 (1) pp. 165–172 - DOI: 10.1785/02201170181
7. Beller S, Monteiller V; Operto S; Nolet G; Paul A; Zhao L (2018). Lithospheric architecture of the South-Western Alps revealed by multi-parameter teleseismic full-waveform inversion. *Geophysical Journal International*, 212 pp. 1369–1388 - DOI: 10.1093/gji/ggx216
8. Bottelin P, Dufréchou G; Seoane L; Llubes M; Monod B (2019). Geophysical methods for mapping Quaternary sediment thickness: Application to the Saint-Lary basin (French Pyrenees). *Comptes Rendus Geoscience*, 315 (6) pp. 407-419 - DOI: 10.1016/j.crte.2019.07.001
9. Bottelin P, Lévy C; Baillet I; Jongmans D; Guéguen P (2013). Modal and thermal analysis of Les Arches unstable rock column (Vercors massif, French Alps).. *Geophysical Journal International*, 194 (2) pp. 849-858 - DOI: 10.1093/gji/ggt046
10. Bottelin P, Jongmans D; Baillet L; Lebourg T; Hantz D; Lévy C; Le Roux O; Cadet H; Lorier L; Rouiller JD; Turpin J; Darras L (2013). Spectral analysis of prone-to-fall rock compartments using ambient vibrations. *Journal of Environmental and Engineering Geophysics*, 18 (4) pp. 205-217 - DOI: 10.2113/JEEG18.4.205
11. Bottelin P, Jongmans D; Daudon D; Mathy; Helmstetter A; Bonilla-Sierra V; Cadet; H; Amitrano; D; Richefeu; V; Lorier; L; Baillet; L; Villard; P; Donzé; F (2014). Seismic and mechanical studies of the artificially triggered rockfall at the Mount Néron (French Alps, December 2011).. *Natural Hazards and Earth System Sciences*, 2 (2) pp. 1505–1557 - DOI: 10.5194/nhess-14-3175-2014
12. Bouffaut L, Dréo RG; Labat V; Boudraa AO; Barruol G (2018). Passive stochastic matched filter for Antarctic blue whale call detection. *Journal of the Acoustical Society of America*, 144 (2) pp. 955-965 - DOI: 10.1121/1.5050520
13. Brax M, Bard PY; Duval AM; Bertrand E; Rahhal ME; Jomaa R; Voisin C; Sursock A (2018). Towards a microzonation of the Greater Beirut area: an instrumental approach combining earthquake and ambient vibration recordings.. *Bulletin of Earthquake Engineering*, 16 (12) pp. 5735-5767 - DOI: 10.1007/s10518-018-0438-1
14. Chevrot S, Sylvander M; Diaz J; Martin R; Mouthereau F; Manatschal G; Ruiz M (2018). The non-cylindrical crustal architecture of the Pyrenees.. *Scientific Reports*, 8 (1) pp. 9591 - DOI: 10.1038/s41598-018-27889-x.

15. De Barros L, Baques M; Godano M; Helmstetter A; Deschamps A; Larroque C; Courboulex F (2019). Fluid-Induced Swarms and Coseismic Stress Transfer: A Dual Process Highlighted in the Aftershock Sequence of the 7 April 2014 Earthquake (Ml 4.8, Ubye, France). *Journal of Geophysical Research - Solid Earth*, 124 (6) pp. 3918-3932 - DOI: 10.1029/2018JB017226
16. De Barros L, Deschamps a Sladen a Lyon-Caen H; Voulgaris N (2017). Investigating dynamic triggering of seismicity by regional earthquakes : the case of the Corinth Rift (Greece). *Geophysical Research Letters*, 44 (21) - DOI: 10.1002/2017GL075460
17. De Barros L, Bean CJ; Zecevic M; Brenguier F; Peltier A (2013). Eruptive fracture location forecasts from high-frequency events on Piton de la Fournaise Volcano. *Journal of Volcanology and Geothermal Research*, 213 pp. 1-13 - DOI: 10.1002/grl.50890
18. Diaz J, Vergès J; Chevrot S; Antonio-Vigil A; Ruiz M; Sylvander M; Gallart J (2018). Mapping the crustal structure beneath the eastern Pyrenees. *Tectonophysics*, 744 pp. 296-309 - DOI: 10.1016/j.tecto.2018.07.011
19. Dréo R, Bouffaut L; Leroy E; Barruol G; Samaran F (2019). Baleen Whale distribution and seasonal occurrence Revealed By An Ocean Bottom Seismometer Network In The Western Indian Ocean.. *Deep Sea Research Part II: Topical Studies in Oceanography*, 161 pp. 132-144 - DOI: 10.1016/j.dsr2.2018.04.005
20. Fores B, Champollion C; Mainsant G; Albaric J; Fort A (2018). Monitoring saturation changes with ambient seismic noise and gravimetry in a karst environment. *Vadose Zone Journal*, 17 (1) pp. 170163 - DOI: 10.2136/vzj2017.09.0163
21. Fuchs F, Schneider FM; Kolínský P; SerafinS; Bokelmann (2019). Rich observations of local and regional infrasound phases made by the AlpArray seismic network after refinery explosion. *Scientific Reports*, 9 (9) pp. 13027 - DOI: 10.1038/s41598-019-49494-2
22. Fuchs F, Lenhardt W; Bokelmann G (2018). Seismic detection of rockslides at regional scale : examples from the Eastern Alps and feasibility of kurtosis-based event location. *Earth Surface Dynamics*, 6 (4) - DOI: 10.5194/esurf-6-955-2018
23. Fuchs F, Bokelmann G; the AlpArray Working Group (2017). Equidistant spectral lines in train vibrations. *Seismological Research Letter*, 89 (1) pp. 56–66 - DOI: 10.1785/0220170092
24. Garambois S, Voisin C; Romero Guzman MA; Brito D; Guillier B; Réfloch A (2019). Analysis of ballistic waves in seismic noise monitoring of water table variations in a water field site: added value from numerical modelling to data understanding. *Geophysical Journal International*, 219 (3) pp. 1636–1647 - DOI: 10.1093/gji/gg391
25. Ghannoum M, Imtiaz A; Grange S; Causse M; Cornou C; Baroth J (2018). Behavior of a RC Frame Under Differential Seismic Excitation.. *Journal of Earthquake Engineering*, pp. 1-22 - DOI: 10.1080/13632469.2018.1453398
26. Gueguen P, Mercerat ED; Singaicho JC; Aubert C; Barros JG; Bonilla F; Crispstyani M; Douste-Bacqué I; Langlaude P; Mercier S; Pacheco D; Pernoud M; Perrault M; Pondaven I; Wolyniec D (2019). METACity-Quito: A semi-dense urban seismic network deployed to analyze the concept of meta-material for the future design of seismic-proof cities. *Seismological Research Letter*, 90 (6) pp. 2318-2326 - DOI: 10.1785/0220190044
27. Hable S, Sigloch K; Stutzmann E; Kiselev S; Barruol G (2019). Tomography of crust and lithosphere in the western Indian Ocean from noise cross-correlations of land and ocean bottom seismometers. *Geophysical Journal International*, 219 pp. 924-944 - DOI: 10.1093/gji/ggz333

28. Hable S, Sigloch K; Barruol G; Stähler C; Hadziioannou C (2018). Clock errors in land and ocean bottom seismograms: High-accuracy estimates from multiple-component noise cross-correlations. *Geophysical Journal International*, 214 pp. 2014-2034 - DOI: 10.1093/gji/ggy236
29. Hetényi G, Molinari I, Clinton J, Bokelmann G, Bondár I, Crawford WC, Dessa JX, Doubre C, Friederich W, Fuchs F, Giardini D, Grácz Z, Handy MR, Herak M, Jia Y, Kissling E, Kopp H, Korn M, Margheriti L, Meier T, Mucciarelli M, Pau A, Pesaresi D, Piromallo C, Plenefisch T, Plomerová J, Ritter J, Rumpker G, Šipka V, Spallarossa D, Thomas C, Tilmann F, Wassermann J, Weber M, Wéber Z, Wesztergom V, Živčić M, AlpArray Seismic Network Team, AlpArray OBS Cruise Crew, AlpArray Working Group (2018). The AlpArray Seismic Network – a large-scale European experiment to image the Alpine orogeny. *Surveys in Geophysics*, 39 (5) pp. 1009–1033 - DOI: 10.1007/s10712-018-9472-4
30. Hoste-Colomer R, Bollinger L; Lyon-Caen H; Adhikari LB; Baillard C; Benoit A; Koirala BP (2018). Lateral variations of the midcrustal seismicity in western Nepal: Seismotectonic implications.. *Earth and Planetary Science Letters*, 504 pp. 115-125 - DOI: 10.1016/j.epsl/2018.09.041
31. Imtiaz A, Cornou C; Bard PY; Zerva A (2018). Effects of site geometry on short-distance spatial coherency in Argostoli, Greece.. *Bulletin of Earthquake Engineering*, 16 (5) pp. 1801-1827 - DOI: 10.1007/s10518-017-0270-z
32. Imtiaz A, Cornou C; Bard PY (2018). Sensitivity of ground motion coherency to the choice of time windows from a dense seismic array in Argostoli, Greece. *Bulletin of Earthquake Engineering*, 16 (9) pp. 3605-3625 - DOI: 10.1007/s10518-018-0320-1
33. Imtiaz A, Perron V; Hollender F; Bard PY; Cornou C; Svay A; Theodoulidis N (2018). Wavefield Characteristics and Spatial Incoherency: A Comparative Study from Argostoli Rock-and Soil-Site Dense Seismic Arrays.. *Bulletin of the Seismological Society of America*, 108 (5A) pp. 2839-2853 - DOI: 10.1785/0120180025
34. Karabulut H, Paul A; Değer Özbakır A; Ergün T; Şentürk S (2019). A new crustal model of the Anatolia–Aegean domain: evidence for the dominant role of isostasy in the support of the Anatolian plateau. *Geophysical Journal International*, 218 (1) pp. 57-73 - DOI: 10.1093/gji/ggz147
35. Karabulut H, Paul A; Afacan Ergün T; Hatzfeld D; Childs DM; Aktar M (2013). Long-wavelength undulations of the seismic Moho beneath the strongly stretched Western Anatolia. *Geophysical Journal International*, 194 (1) pp. 450-464 - DOI: 10.1093/gji/ggt100
36. Kinda GB, Courtois FL; Stéphan Y; Boutonnier JM; Royer JY; Barruol G (2018). Underwater ambient noise spatial and temporal coherence at basin scale.. *Journal of the Acoustical Society of America*, 144 (3) pp. 1732-1732 - DOI: 10.1121/1.5067681
37. Kolinsky P, Bokelmann G; the AlpArray Working Group (2019). Arrival angles of teleseismic fundamental mode Rayleigh waves across the AlpArray. *Geophysical Journal International*, 218 pp. 115-144 - DOI: 10.1093/gji/ggz081
38. Koufoudi E, Chaljub E; Dufour F; Bard PY; Humbert N; Robbe E (2018). Spatial variability of earthquake ground motions at the dam–foundation rock interface of Saint Guérin: experimental and numerical investigations. *Bulletin of Earthquake Engineering*, 16 (5) pp. 1751-1777 - DOI: 10.1007/s10518-017-0266-8.
39. Koufoudi E, Cornou C; Grange S; Dufour F; Imtiaz A (2018). Quantification of the amplitude variability of the ground motion in Argostoli, Greece. Variability of linear and non-linear structural response of a single degree of freedom system. *Bulletin of Earthquake Engineering*, 16 pp. 1-11 - DOI: 10.1007/s10518-018-0313-0

40. Koufoudi E, Chaljub E; Douste-Bacqué I; Roussel S; Bard PY; Larose E; Baillet L (2018). A High-Resolution Seismological Experiment to Evaluate and Monitor the Seismic Response of the Saint-Guérin Arch Dam, French Alps.. *Seismological Research Letters*, 89 (4) pp. 1576–1582 - DOI: 10.1785/0220180067
41. Lavayssière A, Rychert C; Harmon N; Keir D; Hammond J O; Kendall JM; Leroy S (2018). Imaging Lithospheric Discontinuities Beneath the Northern East African Rift Using S-to-P Receiver Functions. *Geochemistry, Geophysics, Geosystems*, 19 (10) pp. 4048-4062 - DOI: 10.1029/2018GC007463
42. Lehujeur M, Vergne J; Schmittbuhl J; Maggi A (2015). Characterization of ambient seismic noise near a deep geothermal reservoir and implications for interferometric methods : a case study in northern Alsace, France. *Geothermal Energy*, 3 (3) - DOI: 10.1186/s40517-014-0020-2
43. Lehujeur M, Vergne J; Schmittbuhl J; Zigone D; Le Chenadec a EstOF Team (2018). Reservoir imaging using ambient noise correlation from a dense seismic network.. *Journal of Geophysical Research - Solid Earth*, 123 (8) pp. 6671-6686 - DOI: 10.1029/2018JB015440.
44. Lu Y, Stehly L; Paul A; AlpArray Working Group (2018). High-resolution surface wave tomography of the European crust and uppermost mantle from ambient seismic noise. *Geophysical Journal International*, 214 (2) pp. 1136-1150 - DOI: 10.1093/gji/ggy188
45. Lyu C, Pedersen HA; Paul A ;Zhao L; Solarino S; the CIFALPS Working Group (2017). Shear wave velocities in the upper mantle of the Western Alps: new constraints using array analysis of seismic surface waves. *Geophysical Journal International*, 210 pp. 321–331 - DOI: 10.1093/gji/ggx166
46. Makushkina A, Tauzin B; Tkalčić H; Thybo H (2019). The mantle transition zone in Fennoscandia: enigmatic high topography without deep mantle thermal anomaly. *Geophysical Research Letters*, 46 (7) pp. 3652-3662 - DOI: 10.1029/2018GL081742
47. Mao S, Campillo M; Van der Hilst RD; Brenguier F; Stehly L; Hillers G (2018). High temporal resolution monitoring of small variations in crustal strain by dense seismic arrays.. *Geophysical Research Letters*, 46 pp. 128-137 - DOI: 10.1029/2018GL079944
48. Mayor J, Traversa P; Calvet M; Margerin L (2018). Tomography of crustal seismic attenuation in Metropolitan France: implications for seismicity analysis. *Bulletin of Earthquake Engineering*, 16 (6) pp. 2195-2210 - DOI: 10.1007/s10518-017-0124-8
49. Mayor J, Bora SS; Cotton F (2018). Capturing regional variations of hard-rock κ_0 from coda analysis. *Bulletin of the Seismological Society of America*, 108 (1) pp. 399-408 - DOI: 10.1785/0120170153
50. Perron V, Laurendeau A; Hollender F; Bard PY; Gélis C; Traversa P; Drouet S (2018). Selecting time windows of seismic phases and noise for engineering seismology applications : a versatile methodology and algorithm. *Geothermal Energy*, 6 (19) - DOI: 10.1186/s40517-018-0104-5
51. Perron V, Hollender F; Mariscal A; Theodoulidis N; Andreou C; Bard PY; Hok S (2018). Accelerometer, Velocimeter Dense-Array, and Rotation Sensor Datasets from the Sinaps@ Postseismic Survey (Cephalonia 2014–2015 Aftershock Sequence). *Seismological Research Letters*, 89 (2A) pp. 678-687 - DOI: 10.1785/0220170125
52. Petersen GM, Cesca S; Kriegerowski M; the AlpArray Working Group (2019). Automated Quality Control for Large Seismic Networks: Implementation and Application to the AlpArray Seismic Network. *Seismological Research Letter*, 90 pp. 1177-1190 - DOI: 10.1785/0220180342

53. Polychronopoulou K, Lois A; Martakis N; Chevrot S Sylvander M; Diaz J; Villaseñor A; Calassou S; Collin M; Masini E; Bitri A; L Stehly (2018). Broadband, short-period or geophone nodes ? Quality assessment of Passive Seismic signals acquired during the Maupasacq experiment. *First Break Special Issue on Passive Seismics*, 36 (4) pp. 71-76 - DOI:
54. Provost F, Malet JP; Hibert C; Helmstetter A; Radiguet M; Amitrano D; Lebourg T (2018). Towards a standard typology of endogenous landslide seismic sources.. *Earth Surface Dynamics*, 6 (4) pp. 1059-1088 - DOI: 10.5194/esurf-2018-23
55. Provost F, Hibert C; Malet JP (2017). Automatic classification of endogenous landslide seismicity using the Random Forest supervised classifier. *Geophysical Research Letters*, 44 (1) pp. 113-120 - DOI: 10.1002/2016gl070709
56. Provost F, Malet JP; Gance J; Helmstetter A; Doubre C (2018). Automatic approach for increasing the location accuracy of slow-moving landslide endogenous seismicity : the APOLoc method. *Geophysical Journal International*, 215 (2) pp. 1455-1473 - DOI: 10.1093/gji/ggy330
57. Salimbeni S, Malusa MG; Zhao L; Guillot S; Pondrelli S; Margheriti L; Paul A; Solarino S; Aubert C; Dumont T; Schwartz S; Wang Q; Xu X; Zheng T; Zhu R (2018). Active and fossil mantle flows in the western Alpine region unravelled by seismic anisotropy analysis and high-resolution P wave tomography. *Tectonophysics*, 731 pp. 35-47 - DOI: 10.1016/j.tecto.2018.03.002
58. Schippkus S, Zigone D; Bokelmann G; the AlpArray Working Group (2018). Ambient-noise tomography of the wider Vienna Basin region. *Geophysical Journal International*, 215 pp. 102–117 - DOI: 10.1093/gji/ggy259.
59. Schneider FM, Fuchs F; Kolinsky P; Caffagni E; Serafin S; Dorninger M; Bokelmann G; AlpArray Working group (2018). Seismo-acoustic signals of the Baumgarten (Austria) gas explosion detected by the AlpArray seismic network. *Earth and Planetary Science Letters*, 502 pp. 104-114 - DOI: 10.1016/J.epsl.2018.08.034
60. Scholz JR, Barruol G; Fontaine FR; Sigloch K; Crawford WC; Deen M (2017). Orienting ocean-bottom seismometers from P-wave and Rayleigh wave polarizations. *Geophysical Journal International*, 208 (3) pp. 1277-1289 - DOI: 10.1093/gji/ggw426
61. Scholz JR, Barruol G; Fontaine FR; Mazzullo A; Montagner JP; Stutzmann E; Sigloch K (2018). SKS splitting in the Western Indian Ocean from land and seafloor seismometers: Plume, plate and ridge signatures. *Earth and Planetary Science Letters*, 498 pp. 169-184 - DOI: 10.1016/j.epsl.2018.06.033
62. Scholz JR, Barruol G; Fontaine FR; Montagner JP; Stutzman E; Sigloch K; Mazzullo A (2018). Upper Mantle Seismic Anisotropy in the Southwest Indian Ocean from SKS–splitting measurements: Plate, Plume and Ridges signatures. *Earth and Planetary Science Letters*, 498 pp. 169-184 - DOI: 10.1016/j.epsl.2018.06.033
63. Solarino S, Malusa MG; Eva E; Guillot S; Paul A; Zhao L; Aubert C; Dumont T; Pondrelli S; Salimbeni S; Schwartz S; Wang Q; Xu X; Zheng T; Zhu R (2018). Mantle wedge exhumation beneath the Dora-Maira (U)HP dome unravelled by local earthquake tomography (Western Alps). *Lithos*, 296-299 pp. 623-636 - DOI: 10.1016/j.lithos.2017.11.035
64. Subedi S, Hetényi G; Vergne J; Bollinger L; Lyon-Caen H; Farra V; Gupta RM (2018). Imaging the Moho and the Main Himalayan Thrust in Western Nepal with receiver functions.. *Geophysical Research Letters*, 45 (24) - DOI: 10.1029/2018GL080911
65. Theodoulidis N, Cultrera G; Cornou C; Bard PY; Boxberger T; DiGiulio G; Imtiaz A; Kementzetzidou D; Makra K; The Argostoli NERA Team (2018). Basin effects on ground motion : the case of a high-

resolution experiment in Cephalonia (Greece). *Bulletin of Earthquake Engineering*, 16 (2) pp. 529–560 - DOI: 10.1007/s10518-017-0225-4

66. Theunissen T, Chevrot S; Sylvander M; Monteiller V; Calvet M; Villasenor A; Benahmed; s Pauchet H; Grimaud F (2018). Absolute earthquake locations using 3-D versus 1-D velocity models below a local seismic network : example from the Pyrenees. *Geophysical Journal International*, 212 (3) pp. 1806-1828 - DOI: 10.1093/gji/ggx472
67. Widiyantoro S, Ramdhan M; Métaxian JP; Cummins PR; Martel C; Erdmann S; Fahmi AA (2018). Seismic imaging and petrology explain highly explosive eruptions of Merapi Volcano, Indonesia. *Scientific Reports*, 8 (1) pp. 13656 - DOI: 10.1038/s41598-018-31293-w