Book chapters and other peer reviewed publications – Scientific staff residing in observatories
Observatoires Volcanologiques et Sismologiques (OVSM+OVPF+OVSG) (IPGP)
Service National d'observations en volcanologie

2012-2017

2017

2016 (14)

1. Babonneau N, **N. Villeneuve**, A. Mazuel, P. Bachèlery, 2016, Erosion and volcanoclastic sedimentation at Piton de La Fournaise volcano: from source to sink. P. Bachelery et al. (eds.), Active Volcanoes of the Southwest Indian Ocean: Piton de la Fournaise and Karthala, Active Volcanoes of the World, DOI 10.1007/978-3-642-31395-0_21

2. Bachèlery P., Morin J., **Villeneuve N.**, Soulé H., Nassor H., Radadi Ali A., 2016. Structure and eruptive history of Karthala volcano. P. Bachelery et al. (eds.), Active Volcanoes of the Southwest Indian Ocean: Piton de la Fournaise and Karthala, Active Volcanoes of the World, DOI 10.1007/978- 3-642-31395-0_21

3. Bato, MG, J.-L. Froger, AJL Harris, **N Villeneuve**, 2016, "Monitoring Effusive Eruptions at Piton de la Fournaise through synergy of Space-based Radar and Thermal Data: Insights into the October 2010 Eruption and its Lava Flows". In: AJL Harris, P. Labazuy, S. Carn, T. De Groove, Detecting, Modelling and Responding to Effusive Eruptions, Geological Society of London: Special Publications.

4. Catry T., **N. Villeneuve**, J.L. Froger, G. Maggio, 2016. Systematic InSAR monitoring of active volcanoes of the South-western Indian Ocea : Piton de la Fournaise (Reunion) and Karthala (Grande Comore). In: AJL Harris, P. Labazuy, S. Carn, T. De Groove, Detecting, Modelling and Responding to Effusive Eruptions, Geological Society

5. **Di Muro, A.,** N. Métrich, P. Allard, A.Aiuppa, M. Burton, B. Galle,**T.Staudacher** (2016), Magma degassing at Piton de la Fournaise volcano, In: Bachèlery P, Lénat, JF, Di Muro A, Michon L (ed) Active volcanoes of the Southwest Indian Ocean: Piton de la Fournaise and Karthala. Active volcanoes of the world. Springer, Berlin, 203-222, 10.1007/978-3-642-31395-0_12.

6. Michon, L., **Ferrazzini, V., Di Muro, A.** (2016), Magma intrusions paths of Piton de la Fournaise. In: Bachèlery, P., Lénat, J.-F., Di Muro, A., Michon, L. (Editor), Active Volcanoes of the Southwest Indian Ocean: Piton de la Fournaise and Karthala. Active Volcanoes of the World. Springer-Verlag Berlin and Heidelberg. pp. 91-106.

7. Morandi, A., Principe, C., **Di Muro, A**., Leroi, G., Michon, L. Bachèlery, P. (2016), Pre-historic explosive activity at Piton de la Fournaise volcano. In: Bachèlery, P., Lénat, J.-F., Di Muro, A., Michon, L. (Editor), Active Volcanoes of the Southwest Indian Ocean: Piton de la Fournaise and Karthala. Active Volcanoes of the World. Springer-Verlag Berlin and Heidelberg. pp. 107-138, 10.1007/978-3-642-31395-0_8.

8. Morandi, A., Principe, C**., Di Muro, A.,** Michon, L. (2016) Geological map of the Plaine des Sables, La Réunion Island. In "Active Volcanoes of the World" series, Springer, Bachelery, P., Lenat, J.F, Di Muro, A., Michon L., Editors.

9. **Peltier, A.**, F. Beauducel, T. Staudacher, **P. Catherine, P. Kowalski** (2016), Contribution of tiltmeters and extensometers to monitor Piton de La Fournaise activity, In: Bachèlery P, Lénat, JF, Di Muro A, Michon L (ed) Active volcanoes of the Southwest Indian Ocean: Piton de la Fournaise and Karthala. Active volcanoes of the world. Springer, Berlin, 287-303, doi:10.1007/978-3-642-31395-0_17.

10. Pichavant, M., Y. Brugier, **A. Di Muro** (2016), Petrological and experimental constraints on the evolution of Piton de la Fournaise magmas, In: Bachèlery P, Lénat, JF, Di Muro A, Michon L (ed) Active volcanoes of the Southwest Indian Ocean: Piton de la Fournaise and Karthala. Active

volcanoes of the world. Springer Intetrnational Publishing, Berlin, 170-184, 10.1007/978-3-642-31395-0_10.

11. Principe, C., Morandi, A., **Di Muro, A**., Michon, L. (2016), Volcanological map of the Plaine des Sables, Piton de la Fournaise. In: Bachèlery, P., Lénat, J.-F., Di Muro, A., Michon, L. (Editor), Active Volcanoes of the Southwest Indian Ocean: Piton de la Fournaise and Karthala. Active Volcanoes of the World. Springer-Verlag Berlin and Heidelberg. pp. 327-330.

12. Staudacher, T, **A. Peltier, V. Ferrazzini, A. Di Muro, P. Boissier, P. Catherine, P. Kowalski, F. Lauret, J. Lebreton** (2016), Fifteen years of intense eruptive activity (1998–2013) at Piton de La Fournaise volcano (La Réunion): a review, In: Bachèlery P, Lénat, JF, Di Muro A, Michon L (ed) Active volcanoes of the Southwest Indian Ocean: Piton de la Fournaise and Karthala. Active volcanoes of the world. Springer, Berlin, 139-170, doi:10.1007/978-3-642-31395-0_9.

13. Staudacher, T., **A. Peltier** (2016), Ground deformation at Piton de la Fournaise (La Réunion Island), a review from 20 years of GNSS monitoring, In: Bachèlery P, Lénat, JF, Di Muro A, Michon L (ed) Active volcanoes of the Southwest Indian Ocean: Piton de la Fournaise and Karthala. Active volcanoes of the world. Springer, Berlin, 251-269, doi:10.1007/978-3-642-31395-0_15.

14. **Villeneuve, N** (2016), Images, volcans et science. Revue focalisée sur le Piton de la Fournaise aux temps moderne. in Entre Terres et Mers, cartographies du Sud-Ouest de l'océan Indien, Actes du Grand Séminaire de l'OIES (2016), Saint-Denis, Epica, 350 p. Coll. « Terres et sociétés indocéanique» GERMANAZ. Ch, ; BOUCHET, Serge (Ed.).

2015 (2)

1. **Di Muro, A., Staudacher, T., Ferrazzini, V.,** Métrich, N., Besson, P., Garofalo, C. and Villemant B (2015) Shallow magma storage at Piton de la Fournaise volcano after 2007 summit caldera collapse tracked in Pele's hairs, chap 9 of Carey, R. J., V. Cayol, M. P. Poland, and D. Weis (eds.), Hawaiian Volcanoes: From Source to Surface, American Geophysical Union Monograph 208, pp 189–212, doi:10.1002/9781118872079.ch9.

2. **Peltier, A.**, M.P. Poland, T. Staudacher (2015), Are Piton de la Fournaise (La Réunion) and Kīlauea (Hawai'i) Really "Analog Volcanoes"?, in Hawaiian Volcanoes: From Source to Surface (eds R. Carey, V. Cayol, M. Poland and D. Weis), John Wiley & Sons, Inc, Hoboken, NJ. doi:10.1002/9781118872079.ch23.

2014 (1)

1. **Villeneuve, N.,** Bachèlery, P., Kemp, J. (2014), La Réunion Island: A Typical Example of a Basaltic Shield Volcano with Rapid Evolution, Landscape and landfoms of France, World geomorphological landscales, pp 261-270.

2013 (2)

1. Bachèlery, P., **Villeneuve, N**. (2013), Hotspots and large igneous provinces. In: Shroder, J. (Editor in Chief), Owen, L.A. (Ed.), Treatise on Geomorphology. Academic Press, San Diego, CA, vol. 5, Tectonic Geomorphology, pp. 193–233.

2. Davoine, P.A., Saint Marc, C., **Di Muro, A., Staudacher, T., Boissier, P.,** Michon, L., **Villeneuve, N.** (2013) Evaluation of the volcanic hazard on the Piton de la Fournaise volcano (La Réunion island); ESRI Map Book, volume 28, p. 49.

2012 (1)

1. Froger, J.-L., T. Souriot**, N. Villeneuve**, T. Rabaute, P. Durand, V. Cayol, **A. Di Muro**, **T. Staudacher** and B. Fruneau, Apport des données TerraSAR-X pour le suivi de l'activité du Piton de la Fournaise: Premiers résultats. (2012) Revue Française de Photogrammétrie et de Télédétection. 197 : 86-101.