

Philippe Jousset - Brief CV – French, born in Pessac (Bordeaux area)

Dr. Philippe Jousset obtained an Engineering Diploma in Geology (3 years) at the National School of Geology in Nancy, France, and then a Ms.C. and Ph.D. (4 years) in Geophysics at the Institut de Physique du Globe de Paris (France). In between he spent 1.5 years at the Volcanological Survey of Indonesia for technical and scientific advices on volcano monitoring. After his Ph.D., he studied mass transfer on Japanese volcanoes in Hokkaido University for a 2 years project (JSPS Fellowship). He diversified his experience by a 2 years project with the Ecole des Mines de Paris, with research collaboration in oil and gas seismic techniques on pre-stack depth migration. He spent 3 years at the University of Leeds in the analysis and modeling (3D finite-difference) of Long-Period seismic events, very important for assessing volcanic activity. After 7 years at the Geological Survey of France, where he contributed to many projects in Natural Hazard, Geothermal and others, he is now researcher at the GFZ (since 2012) and developed seismic network on geothermal area within several German (BMBF) and European projects (IMAGE) and a network of 5 continuous gravity meters on a geothermal volcanic site. He is chairman of a Labex Ge-eau-thermie (Univ. Strasbourg) since 2015. He is President of the Seismology Division at the European Geosciences Union (2019-2023). His present research focus uses fiber optics observations and modeling in various applications, mainly seismology and volcanology.

Employment

2012-present	Helmholtz Centre GFZ German Research Centre for Geosciences, Potsdam, Germany
2003-2011	BRGM – Geological Survey of France Geophysicist for Natural Hazards and Risks and Geothermal Research
2000-2003	NERC, School of Earth Sciences, the University of Leeds, UK, Research Fellow
1998-2000	Centre Recherche Géophysique, Ecole des Mines de Paris, France, Research Fellow.
1996-1998	JSPS, Japan, Usu Volcano Observatory, Hokkaido University, Japan Research Fellow: understanding deformation and gravity at Japanese volcanoes
1990-1991	National Service servant, Volcanological Survey of Indonesia

Academic Qualifications

1992-1996	Ph.D. (Physics of the Earth), Institut de Physique du Globe, Paris, France
1991-1992	D.E.A. (M.Sc.), Physics of the Earth - Institut de Physique du Globe, Paris, France
1987-1990	Engineering Geologist, École Nationale Supérieure de Géologie, Nancy, France

Main Publications

- Jousset P., Mortensen A. K., Fridleifsson G. Ó., Ágústsson K., Gudmundsson M. T., 2020. Reykjanes, Iceland: Structure and dynamics of mid-oceanic ridge geo/hydrothermal systems. *JVGR* 391, 106692.
- Jousset P., 2019. Illuminating Earth's faults. *Science*, 366, 6469, 1076-1077.
- Jousset P., T. Reinsch, T. Ryberg, H. Blanck, A. Clarke, R. Aghayev, G. P. Hersir, J. Hennings, M. Weber, C. Krawczyk, 2018. Dynamic strain determination using fibre-optic cables allows imaging of seismological and structural features. *Nature Communications* 9, 2508, doi: s41467-018-04860-y.
- Jousset P., J. Pallister and Surono, 2013. The 2010 eruption of Merapi volcano. *JVGR* 261, 1-6.
- Surono, P. Jousset, J. Pallister, M. Boichu, M.F. Buongiorno, A. Budisantoso, F. Costa, S. Andrastuti, F. Prata, D. Schneider, L. Clarisse, H. Humaida, S. Sumarti, C. Bignami, J. Griswold, S. Carn, C. Oppenheimer and F. Lavigne, 2012. The 2010 explosive eruption of Java's Merapi volcano – a “100-year” event. *JVGR* 241-242, 121-145.