



Dr David Schlaphorst
Diplom(Muen.), PhD

Research Associate in Seismology

Area of research

Using seismology to study the Lesser Antilles subduction zone

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Summary

Biography

2015 - present: Postdoc, University of Bristol, UK

(Ambient noise tomography in the Lesser Antilles)

2011 - 2015: Ph.D., University of Bristol, UK

Thesis: Seismological Insight into the Building of the Lesser Antilles Arc

2009 - 2011: Diploma, Westfälische Wilhelms Universität (WWU) Münster, Germany

Thesis: Estimation of the topography of the core-mantle boundary using core phases

2007 - 2010: Hauptsudium (comparable to M.Sc.), WWU Münster, Germany

Major: Geophysics; Minor: Planetology, Nanophysics, Geoinformatics

2005 - 2007: Vordiplom (comparable to B.Sc.), WWU Münster, Germany

Major: Physics, Geophysics

Keywords

- seismology
- subduction zones
- crustal formation
- seismic anisotropy
- seismicity
- receiver functions
- ambient noise tomography

Memberships

Organisations

[School of Earth Sciences](#)

Earth Sciences staff

- [Earth Sciences postdoctoral researchers](#)

Research groups

- [Geophysics](#)

Recent publications

- Melekhova, L, Schlaphorst, D, Blundy, J, Kendall, JM, Connolly, C, McCarthy, A & Arculus, R, 2019, '[Lateral Variation in Crustal Structure along the Lesser Antilles Arc from Petrology of Crustal Xenoliths and Seismic Receiver Functions](#)'. *Earth and Planetary Science Letters*, vol 516., pp. 12-24
- Schlaphorst, D, Melekhova, L, Kendall, JM, Blundy, J & Latchman, JL, 2018, '[Probing layered arc crust in the Lesser Antilles using receiver functions](#)'. *Royal Society Open Science*, vol 5.
- Schlaphorst, D, Kendall, J-M, Baptie, B, Latchman, JL & Tait, S, 2017, '[Gaps, tears and seismic anisotropy around the subducting slabs of the Antilles](#)'. *Tectonophysics*, vol 698., pp. 65-78
- Schlaphorst, D, Kendall, JM, Collier, JS, Verdon, JP, Blundy, J, Baptie, B, Latchman, JL, Massin, F & Bouin, MP, 2016, '[Water, oceanic fracture zones and the lubrication of subducting plate boundaries-insights from seismicity](#)'. *Geophysical Journal International*, vol 204., pp. 1405-1420

[View complete publications list](#) in the University of Bristol publications system

Courses

Dr Schlaphorst currently teaches 3 courses: