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Geology and Geophysics
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Research Profile

Tectonics, seismology, rifting, magmatism, strike-slip faulting, gravity, seismic reflection acquisition, seismic reflection processing, gravity data acquisition and processing.

Employment

Senior Lecturer

Senior Lecturer
Geology and Geophysics
University of Aberdeen
1 Dec 2021 → present

Competitions Officer

British Geophysical Association
United Kingdom
1 Feb 2015 → present

Research outputs

Migrated teleseismic P wave receiver functions reveal intricate post-subduction crust and upper mantle structure of northern Borneo (Sabah), Malaysia

Cornwell, D. (Corresponding Author), Gilligan, A., Rawlinson, N., Tongkul, F., Pilia, S., Bacon, C. A., Greenfield, T., Baker, S. K., Wehner, D., Linang, H. T. & Fone, J. W., Nov 2025, In: Journal of Geophysical Research: Solid Earth. 130, 11, 22 p., e2025JB031466.

Mantle transition zone variations beneath the Ethiopian Rift and Afar: Chemical heterogeneity within a hot mantle?

Cornwell, D. G. (Corresponding Author), Hetényi, G. & Blanchard, T. D., Aug 2011, In: Geophysical Research Letters. 38, 16

Imaging detailed crustal structure and magmatic intrusion across the Ethiopian Rift using a dense linear broadband array

Cornwell, D. G., Maguire, P. K. H., England, R. W. & Stuart, G. W., 9 Jan 2010, In: Geochemistry, Geophysics, Geosystems. 11, 1, 21 p., Q0AB03.

Northern Main Ethiopian Rift crustal structure from new high-precision gravity data

Cornwell, D. G., Mackenzie, G. D., England, R. W., Maguire, P. K. H., Asfaw, L. M. & Oluma, B., 1 Jan 2006, In: Geological Society Special Publications. 259, p. 307-321 15 p.