

## List of publications in 2018 due to GEF equipment loans

### Journal Articles

1. Barrett, A.M., Balme, M.R., Patel, M.R. and Hagermann, A., **2018**, The distribution of putative periglacial landforms on the martian northern plains, *Icarus*, 314, p133-148, doi: 10.1016/j.icarus.2018.05.032, (GEF Loans 999, 1006)
2. Ben Mansour, W., England, R.W., Fishwick, S. and Moorkamp, M., **2018**, Crustal properties of the northern Scandinavian mountains and Fennoscandian shield from analysis of teleseismic receiver functions, *Geophysical Journal International*, 214(1), p386-401, doi: 10.1093/gji/ggy140, (GEF Loans 833, 959)
3. Birhanu, Y., Wilks, M., Biggs, J., Kendall, J., Ayele, A. and Lewi, E., **2018**, Seasonal patterns of seismicity and deformation at the Alutu geothermal reservoir, Ethiopia, induced by hydrological loading, *Journal of Volcanology and Geothermal Research*, 356, p175-182, doi: 10.1016/j.jvolgeores.2018.03.008, (GEF Loans 962, 992, 1011)
4. Caudron, C., White, R.S., Green, R.G., Woods, J., Agustsdottir, T., Donaldson, C., Greenfield, T., Rivalta, E. and Brandsdottir, B., **2018**, Seismic Amplitude Ratio Analysis of the 2014-2015 Bardarbunga-Holuhraun Dike Propagation and Eruption, *Journal of Geophysical Research: Solid Earth*, 123(1), p264-276, doi: 10.1002/2017JB014660, (GEF Loans 968, 1022)
5. Chiarabba, C., De Gori, P., Cattaneo, M., Spallarossa, D. and Segou, M., **2018**, Faults Geometry and the Role of Fluids in the 2016-2017 Central Italy Seismic Sequence, *Geophysical Research Letters*, 45(14), p6963-6971, doi: 10.1029/2018GL077485, (GEF Loans 1067, 1077)
6. Denton, P., Fishwick, S., Lane, V. and Daly, D., **2018**, Football Quakes as a Tool for Student Engagement, *Seismological Research Letters*, 89(5), p1902-1907, doi: 10.1785/0220180078, (GEF Loan )
7. Gottsmann, J., del Potro, R. and Muller, C., **2018**, 50 years of steady ground deformation in the Altiplano-Puna region of southern Bolivia, *Geosphere*, 14(1), p65-73, doi: 10.1130/GES01570.1, (GEF Loans 910, 928)
8. Greenfield, T., Keir, D., Kendall, J. and Ayele, A., **2018**, Seismicity of the Bora – Tullu-Moye volcanic field, 2016-2017, *Geochemistry, Geophysics, Geosystems*, doi: 10.1029/2018GC007648, (GEF Loan 1037)
9. Greenfield, T., White, R.S., Winder, T. and Agustsdottir, T., **2018**, Seismicity of the Askja and Bardarbunga volcanic systems of Iceland, 2009–2015, *Journal of Volcanology and Geothermal Research*, doi: 10.1016/j.jvolgeores.2018.08.010, (GEF Loans 857, 914, 968, 980, 1022)
10. Grevemeyer, I., Hayman, N.W., Peirce, C., Schwardt, M., Van Avendonk, H.J.A., Dannowski, A. and Papenberg, C., **2018**, Episodic magmatism and serpentinized mantle exhumation at an ultraslow-spreading centre, *Nature Geoscience*, doi: 10.1038/s41561-018-0124-6, (GEF Loan )
11. Grund, M. and Ritter, J.R., **2018**, Widespread seismic anisotropy in Earth's lowermost mantle beneath the Atlantic and Siberia, *Geology*, 47(2), p123-126, doi: 10.1130/G45514.1, (GEF Loan 959)
12. Hart, J.K., Clayton, A.I., Martinez, K. and Robson, B.A., **2018**, Erosional and depositional subglacial streamlining processes at Skalafellsjokull, Iceland: an analogue for a new bedform continuum model, *GFF*, 140(2), p153-169, doi: 10.1080/11035897.2018.1477830, (GEF Loans 935, 961, 983)
13. Illsley-Kemp, F., Greenfield, T. and Keir, D., **2018**, Seismic Anisotropy Reveals a Dynamic Link Between Adjacent Magmatic Segments Prior to Dyke Intrusion, *Journal of Geophysical Research: Solid Earth*, 123(11), p9800-9816, doi: 10.1029/2018JB016420, (GEF Loan 885)
14. Illsley-Kemp, F., Keir, D., Bull, J.M., Gernon, T.M., Ebinger, C., Ayele, A., Hammond, J.O.S., Kendall, J., Goitom, B. and Belachew, M., **2018**, Seismicity During Continental Breakup in the Red Sea Rift of Northern Afar, *Journal of Geophysical Research: Solid Earth*, 123(3), p2345-2362, doi: 10.1002/2017JB014902, (GEF Loans 841, 885, 913, 953, 956)
15. Illsley-Kemp, F., Bull, J.M., Keir, D., Gerya, T.V., Pagli, C., Gernon, T., Ayele, A., Goitom, B., Hammond, J. and Kendall, J.M., **2018**, Initiation of a Proto-Transform Fault Prior to Seafloor Spreading, *Geochemistry, Geophysics, Geosystems*, doi: 10.1029/2018GC007947, (GEF Loans 913, 956)
16. Jenkins, J., Maclennan, J., Green, R.G., Cottaar, S., Deuss, A.F. and White, R.S., **2018**, Crustal Formation on a Spreading Ridge Above a Mantle Plume: Receiver Function Imaging of the Icelandic Crust, *Journal of Geophysical Research: Solid Earth*, 123(6), p5190-5208, doi: 10.1029/2017JB015121, (GEF Loans 968, 1022)
17. Lange, D., Tilmann, F., Henstock, T., Rietbrock, A., Natawidjaja, D. and Kopp, H., **2018**, Structure of the central Sumatran subduction zone revealed by local earthquake travel-time tomography using an amphibious network, *Solid Earth*, 9(4), p1035-1049, doi: 10.5194/se-9-1035-2018, (GEF Loan 828)

18. Lavayssière, A., Rychert, C., Harmon, N., Keir, D., Hammond, J.O.S., Kendall, J., Doubre, C. and Leroy, S., **2018**, Imaging Lithospheric Discontinuities Beneath the Northern East African Rift Using S-to-P Receiver Functions, *Geochemistry, Geophysics, Geosystems*, 19(10), p4048-4062, doi: 10.1029/2018GC007463, (GEF Loans 841, 873, 913)
19. Liddell, M.V., Bastow, I., Rawlinson, N., Darbyshire, F., Gilligan, A. and Watson, E., **2018**, Precambrian Plate Tectonics in Northern Hudson Bay: Evidence From P and S Wave Seismic Tomography and Analysis of Source Side Effects in Relative Arrival-Time Data Sets, *Journal of Geophysical Research: Solid Earth*, 123(7), p5690-5709, doi: 10.1029/2018JB015473, (GEF Loans 817, 900)
20. Lloyd, R., Biggs, J., Birhanu, Y., Wilks, M., Gottsmann, J., Kendall, J., Ayele, A., Lewi, E. and Eysteinnsson, H., **2018**, Sustained Uplift at a Continental Rift Caldera, *Journal of Geophysical Research: Solid Earth*, 123(6), p5209-5226, doi: 10.1029/2018JB015711, (GEF Loans 962, 992, 1011)
21. Mitra, S., Priestley, K.F., Borah, K. and Gaur, V.K., **2018**, Crustal Structure and Evolution of the Eastern Himalayan Plate Boundary System, Northeast India, *Journal of Geophysical Research: Solid Earth*, 123(1), p621-640, doi: 10.1002/2017JB014714, (GEF Loan 774)
22. Murray, J.B., van Wyk de Vries, B., Pitty, A., Sargent, P. and Wooller, L., **2018**, Gravitational sliding of the Mt. Etna massif along a sloping basement, *Bulletin of Volcanology*, 80(4), doi: 10.1007/s00445-018-1209-1, (GEF Loans 727, 776, 799, 825, 869, 898, 929)
23. Nowacki, A., Wilks, M., Kendall, J., Biggs, J. and Ayele, A., **2018**, Characterising hydrothermal fluid pathways beneath Aluto volcano, Main Ethiopian Rift, using shear wave splitting, *Journal of Volcanology and Geothermal Research*, 356, p331-341, doi: 10.1016/j.jvolgeores.2018.03.023, (GEF Loan 962)
24. Papaleo, E., Cornwell, D. and Rawlinson, N., **2018**, Constraints on North Anatolian Fault Zone Width in the Crust and Upper Mantle From S Wave Teleseismic Tomography, *Journal of Geophysical Research: Solid Earth*, 123(4), p2908-2922, doi: 10.1002/2017JB015386, (GEF Loan 947)
25. Pugh, D.J. and White, R.S., **2018**, MTfit: A Bayesian Approach to Seismic Moment Tensor Inversion, *Seismological Research Letters*, doi: 10.1785/0220170273, (GEF Loan 842)
26. Schopa, A., Chao, W., Lipovsky, B.P., Hovius, N., White, R.S., Green, R.G. and Turowski, J.M., **2018**, Dynamics of the Askja caldera July 2014 landslide, Iceland, from seismic signal analysis: precursor, motion and aftermath, *Earth Surface Dynamics*, 6(2), p467-485, doi: 10.5194/esurf-6-467-2018, (GEF Loans 968, 1022)
27. Smith, A.M., Woodward, J., Ross, N., Bentley, M.J., Hodgson, D.A., Siegert, M.J. and King, E.C., **2018**, Evidence for the long-term sedimentary environment in an Antarctic subglacial lake, *Earth and Planetary Science Letters*, 504, p139-151, doi: 10.1016/j.epsl.2018.10.011, (GEF Loans 838, 870)
28. Stephenson, R., Piepjohn, K., Schiffer, C., Von Gosen, W., Oakey, G.N. and Anudu, G., **2018**, Integrated crustal–geological cross-section of Ellesmere Island, *Geological Society, London, Special Publications*, 460(1), p7-17, doi: 10.1144/SP460.12, (GEF Loan 890)
29. Tepp, G., Ebinger, C.J., Zal, H., Gallacher, R., Accardo, N., Shillington, D.J., Gaherty, J., Keir, D., Nyblade, A.A., Mbogoni, G.J., Chindandali, P.R.N., Ferdinand-Wambura, R., Mulibo, G.D. and Kamihanda, G., **2018**, Seismic Anisotropy of the Upper Mantle Below the Western Rift, East Africa, *Journal of Geophysical Research: Solid Earth*, 123(7), p5644-5660, doi: 10.1029/2017JB015409, (GEF Loan 981)
30. Underwood, E., **2018**, A Novel Way to Track Magma Flow, *Eos*, 99, doi: 10.1029/2018EO093255, (GEF Loans 968, 1022)
31. Watson, C.S., King, O., Miles, E.S. and Quincey, D.J., **2018**, Optimising NDWI supraglacial pond classification on Himalayan debris-covered glaciers, *Remote Sensing of Environment*, 217, p414-425, doi: 10.1016/j.rse.2018.08.020, (GEF Loans 1050, 1058, 1065)
32. Watson, C.S., Quincey, D.J., Carrivick, J.L., Smith, M.W., Rowan, A.V. and Richardson, R., **2018**, Heterogeneous water storage and thermal regime of supraglacial ponds on debris-covered glaciers, *Earth Surface Processes and Landforms*, 43(1), p229-241, doi: 10.1002/esp.4236, (GEF Loans 1050, 1058, 1065)
33. White, R.S., Edmonds, M., Maclennan, J., Greenfield, T. and Agustsdottir, T., **2018**, Melt movement through the Icelandic crust, *Philosophical Transactions of the Royal Society A: Mathematical, Physical and Engineering Sciences*, 377(2139), p20180010, doi: 10.1098/rsta.2018.0010, (GEF Loans 842, 857, 914, 968, 980, 1022)

34. Woods, J., Donaldson, C., White, R.S., Caudron, C., Brandsdóttir, B., Hudson, T.S. and Ágústsdóttir, T., **2018**, Long-period seismicity reveals magma pathways above a laterally propagating dyke during the 2014–15 Bárðarbunga rifting event, Iceland, *Earth and Planetary Science Letters*, 490, p216-229, doi: 10.1016/j.epsl.2018.03.020, (GEF Loans 968, 1022)

### Conference Papers / Proceedings

1. Bacon, C., **2018**, Seismic anisotropy in the Icelandic rift zone, *EGU, Vienna, EOS, Transactions, AGU*, 20, EGU2018-13641, (GEF Loan )
2. Donaldson, C., White, R.S. and Caudron, C., **2018**, Annual seasonal variations in relative seismic velocity changes in the Northern Volcanic Zone, Iceland, *EGU, Vienna, EGU General Assembly*, 20, EGU2018-15393, (GEF Loan )
3. Donaldson, C., White, R.S., Caudron, C., Smith, J.D. and Winder, T., **2018**, Towards monitoring Icelandic volcanoes using relative seismic velocity: the Bárðarbunga-Holuhraun rifting episode and the importance of seasonal variations, *American Geophysical Union, Fall Meeting, Washington, EOS, Transactions, AGU*, (GEF Loan )
4. Donaldson, C., et al., **2018**, Relative seismic velocity variations correlate with deformation at Kīlauea volcano, *EGU, Vienna, EGU General Assembly*, 20, EGU2018-19365, (GEF Loan )
5. Gilligan, A., Cornwell, D.G., Rawlinson, N., Tongkul, F. and Pilia, S., **2018**, Post-subduction tectonics in North Borneo: constraints from P receiver functions, *American Geophysical Union, Fall Meeting, Washington, EOS, Transactions, AGU*, T13A-07, (GEF Loan 1038)
6. Hudson, T., Brisbourne, A., Walter, F., Graff, D. and White, R.S., **2018**, Basal icequake source mechanisms beyond the standard double-couple stick-slip model, *American Geophysical Union, Fall Meeting, Washington, EOS, Transactions, AGU*, (GEF Loan )
7. Jenkins, J., Green, R.G., MacLennan, J., Cottaar, S., Deuss, A.F. and White, R.S., **2018**, Crustal formation in a plume-ridge setting: Seismic imaging of the Icelandic crust, *American Geophysical Union, Fall Meeting 2017, New Orleans, EOS, Transactions, AGU*, NS12A-04, (GEF Loan 980)
8. Lane, V., Daly, D. and England, R.W., **2018**, SEIS-UK: Delivering NERC's Onshore Seismic Facility for the UK Earth Science Community, *American Geophysical Union, Fall Meeting 2018, EOS, Transactions, AGU*, S43E-0678, (GEF Loan )
9. Martins, J., Ruigrok, E., Draganov, D., Weemstra, C., Jousset, P., Verdel, A., Hooper, A., Hansen, R., White, R.S., Soosalu, H. and Hersir, G., **2018**, Surface-wave tomography by ambient noise seismic interferometry to image volcanic and geothermal systems in South Iceland, *EGU, Vienna, EGU General Assembly*, 20, EGU2018-17063, (GEF Loan )
10. Winder, T., et al., **2018**, Conjugate strike-slip seismicity in the Icelandic Rift Zone triggered by the 2014 Bárðarbunga-Holuhraun dyke intrusion, *EGU, Vienna, EGU General Assembly*, 20, EGU2018-9535, (GEF Loan )
11. Winder, T., et al., **2018**, A Surge in Seismicity in a Network of Cross-Cutting Conjugate Strike-Slip Faults Triggered by the 2014 Bárðarbunga-Holuhraun Dike Intrusion, *American Geophysical Union, Fall Meeting, Washington, EOS, Transactions, AGU*, (GEF Loan )
12. Woods, J., Donaldson, C., White, R.S., Brandsdóttir, B., Caudron, C., Hudson, T.S. and Ágústsdóttir, T., **2018**, Long-period seismicity reveals magma pathways above a propagating dyke during the 2014-15 Bárðarbunga rifting episode, Iceland, *EGU, Vienna, EGU General Assembly*, 20, EGU2018-3107, (GEF Loans 968, 1022)
13. Woods, J., Winder, T. and White, R.S., **2018**, Magma plumbing of a fissure eruption revealed by remarkably detailed dyke microseismicity, *Volcano Seismology Working Group, La Reunion, October 2018, European Seismological Commission*, (GEF Loan )
14. Ágústsdóttir, T., et al., **2018**, The 2014-2015 Bárðarbunga-Holuhraun magmatic rifting event: A seismic study, *American Geophysical Union, Fall Meeting, Washington, EOS, Transactions, AGU*, (GEF Loan )
15. Ágústsdóttir, T., Woods, J., White, R.S., Greenfield, T., Winder, T. and Brandsdóttir, B., **2018**, The 2014-15 Bárðarbunga-Holuhraun magmatic rifting event: A seismic study, *EGU, Vienna, EGU General Assembly*, 20, EGU2018-8194, (GEF Loans 968, 1022)

### PhD Theses

1. Caplan, J.S., **2018**, Granular collapses, *University of Cambridge*, (GEF Loan 989)

2. Hawker, L.P.H., **2018**, Regional Flood Models and Digital Elevation Model (DEM) Uncertainty, *University of Bristol*, (GEF Loan 1089)
3. Illsley-Kemp, F., **2018**, Crustal Processes Associated with the Final Stages of Continental Rifting in Northern Afar, *University of Southampton*, (GEF Loans 841, 885, 913, 953, 956)
4. King, O., **2018**, Characterising the evolution of Himalayan debris covered glaciers, *University of Leeds*, (GEF Loans 1050, 1058, 1065)
5. Morino, C., **2018**, The hidden hazard of melting ground ice in northern Iceland , *The Open University*, (GEF Loans 1048, 1064)
6. Simpson, J.E., **2018**, Methods for improving greenhouse gas emissions estimates from peatland fires in indonesia, *King's College London*, (GEF Loan 1057)
7. Woods, J., **2018**, Dyke-induced earthquakes during the 2014-15 Bardarbunga-Holuhraun rifting event, Iceland, *University of Cambridge*, (GEF Loans 968, 1022)