

## List of publications in 2008 due to GEF equipment loans

### Journal Articles

1. Adalgeirsdottir, G., **2008**, Tidal influence on Rutford Ice Stream, West Antarctica: observations of surface flow and basal processes from closely spaced GPS and passive seismic stations, *Journal of Glaciology*, 54, pp715-724 (Loan No:757)
2. Bastow, I.D., Nyblade, A.A., Stuart, G., Rooney, T.O. and Benoit, M.H., **2008**, Upper mantle seismic structure beneath the Ethiopian hotspot: Rifting at the edge of the African low velocity anomaly, *Geochemistry, Geophysics, Geosystems*, 9(12), doi: 10.1029/2008GC002107 (Loan No:841)
3. Cassidy, N.J., **2008**, Electrical and Magnetic Properties of Rocks, Soils and Fluids, *Ground Penetrating Radar Theory and Applications*, Elsevier, pp41-72 (Loan No:730)
4. Cassidy, N.J., **2008**, GPR Attenuation and Scattering in a Mature Hydrocarbon Spill: A Modeling Study, *Vadoze Zone Journal*, 7(1), pp140-159, doi: 10.2136/vzj2006.0142 (Loan No:730)
5. Daly, E., Keir, D., Ebinger, C.J., Stuart, G.W., Bastow, I.D. and Ayele, A., **2008**, Crustal tomographic imaging of a transitional continental rift: the Ethiopian Rift, *Geophysical Journal International*, 172, pp1033-1048, doi: 10.1111/j.1365-246X.2007.03682.x
6. Eberhart-Phillips, D., Reyners, M., Chadwick, M. and Stuart, G., **2008**, Three-dimensional attenuation structure of the Hikurangi subduction zone in the central North Island, New Zealand, *Geophysical Journal International*, 174, pp418-434, doi: 10.1111/j.1365-246X.2008.03816.x (Loan No:773)
7. Ebinger, C.J., Keir, D., Ayele, A., Belachew, M., Hammond, J.O.S., Calais, E., Wright, T.J., Campbell, E. and Buck, R., **2008**, Magma intrusion and faulting processes in a zone of continental rapture: Seismicity of the Dabbahu (Afar) rift, *Geophysical Journal International*, 174(3), pp1138-1152, doi: 10.1111/j.1365-246X.2008.03877.x (Loan No:803)
8. Hawley, R.L., Morris, E. and McConnell, J.R., **2008**, Rapid techniques for determining annual accumulation applied at Summit Station, Greenland, *Journal of Glaciology*, 54(188), pp839-845, doi: 10.3189/002214308787779951 (Loan No:867)
9. Jackson, J., McKenzie, D., Priestley, K. and Emmerson, B., **2008**, New view on the structure and rheology of the lithosphere, *Geological Society of London Special Publications*, 165, pp453-465, doi: 10.1144/0016-76492007-109
10. Kulesa, B., Booth, A.D., Hobbs, A. and Hubbard, A.L., **2008**, Automated monitoring of subglacial hydrological processes with ground-penetrating radar (GPR) at high temporal resolution: scope and potential pitfalls, *Geophysical Research Letters*, 35, L24502, doi: 10.1029/2008GL035855 (Loan No:846)
11. Parry, V., Nienow, P., Mair, D. and Scott, J., **2008**, Greenland: Bringing together remote sensing and fieldwork, *Scottish Geographical Journal*, 124(2), pp211-217, doi: 10.1080/14702540802411840 (Loan No:804)
12. Priestley, K., Jackson, J. and McKenzie, D., **2008**, Lithospheric structure and deep earthquakes beneath India, the Himalaya and southern Tibet, *Geophysical Journal International*, pp345-362, doi: 10.1111/j.1365-246X.2007.03636.x
13. Ranganai, R.T. and Ebinger, C.J., **2008**, Aeromagnetic and Landsat TM structural interpretation for identifying regional groundwater exploration targets, south-central Zimbabwe craton, *Journal of Applied Geophysics*, 65, pp73-83, doi: 10.1016/j.jappgeo.2008.05.009

14. Ranganai, R.T., Whaler, K.A. and Ebinger, C.J., **2008**, Gravity anomaly patterns in the south-central Zimbabwe Archaean craton and their geological interpretation, *Journal of African Earth Sciences*, 51, pp257-276, doi: 10.1016/j.jafrearsci.2008.01.01
15. Shaw, F., Worthington, M.H., White, R.S., Andersen, M.S., Petersen, U.K. and the SeiFaBa Group, **2008**, Seismic attenuation in Faroe Islands basalts, *Geophysical Prospecting*, 56(1), pp5-20, doi: 10.1111/j.1365-2478.2007.00665.x
16. Thomas, E.R., Marshall, G. and McConnell, J.R., **2008**, A doubling in accumulation in the western Antarctic Peninsula since 1850, *Geophysical Research Letters*, 35, L01706, doi: 10.1029/2007GL032529 (Loan No:824)
17. Wang, J., Tilmann, F., White, R.S., Soosalu, H. and Bordoni, P., **2008**, Application of multichannel Wiener filters to the suppression of ambient seismic noise in passive seismic arrays, *The Leading Edge*, 27(2), pp232-238, doi: 10.1190/1.2840372 (Loan No:748)
18. Wilde-Piorko, M. and the Passeq Working Group, **2008**, PASSEQ 2006-2008: Passive seismic experiment in Trans-European Suture Zone, *Studia Geophysica et Geodaetica*, 42, pp439-448, doi: 10.1007/s11200-008-0030-2 (Loan No:814)
19. Williams-Jones, G., Rymer, H., Mauri, G., Gottsmann, J., Poland, M. and Carbone, D., **2008**, Towards continuous 4D microgravity monitoring of volcanoes, *Geophysics*, 73(6), pp19-28, doi: 10.1190/1.2981185 (Loan No:778)

### Conference Papers/Proceedings

1. Booth, A. and Kulesa, B., **2008**, Is it possible to monitor subglacial hydraulic processes with Ground-Penetrating Radar (GPR)?, *Geophysical Research Abstracts, EGU General Assembly*, 10, EGU2008-A-10516 (Loan No:846)
2. Booth, A. and Kulesa, B., **2008**, Monitoring subglacial hydraulic processes with ground-penetrating radar (GPR): scope and potential pitfalls, *International Symposium on Radioglaciology and its Applications, Madrid, Spain, International Glaciological Society* (Loan No:846)
3. Cornwell, D., England, R., Maguire, P., Kendall, J.-M. and Stuart, G., **2008**, Two-stage magmatism during the evolution of the transitional Ethiopian rift, *Geophysical Research Abstracts, EGU General Assembly*, 10, EGU2008-A-01504 (Loan No:765)
4. Dando, B.D.E., Stuart, G.W., Houseman, G.A. and Team CBP, **2008**, Broadband Seismic Investigations of the Upper Mantle Beneath the Vienna and Pannonian Basins, *EOS, Transactions, AGU*, 89 (53), Fall Meet. Suppl., Abstract S21C-1848 (Loan No:795)
5. de La Peña, S., Nienow, P., Mair, D., Scott, J., Parry, V., Giannopoulos, A., Shepherd, A., Cullen, R. and Wingham, D., **2008**, A Study of Airborne Radar Altimetry Waveforms and Ku Band Ground Penetrating Radar Measurements From the Percolation Zone of the Greenland Ice Sheet, *American Geophysical Union, Fall Meeting 2008* (Loan No:804)
6. Desissa, M., Dawes, G., Whaler, K., Hautot, S., Fiseha, S. and Lema, Y., **2008**, Application of Magnetotellurics (MT) to investigate Partial Melt along the Active Dabaho Magmatic Segment, Afar Depression, Ethiopia, *19th International Workshop on Electromagnetic Induction in the Earth, Beijing, China, IAGA* (Loan No:855)
7. England, R. and Ebbing, J., **2008**, The relationship between deep crustal structure and surface uplift, *IGC, Oslo, Norway*, August 2008 (Loan No:783)

8. England, R. and Ebbing, J., **2008**, A seismological study of Epeirogenic Uplift of Scandinavia, *Geophysical Research Abstracts, EGU General Assembly*, 10, EGU2008-A-02842 (Loan No:783)
9. Gaulton, R. and Malthus, T.J., **2008**, LiDAR mapping of canopy gaps in continuous cover forests; a comparison of canopy height model and point cloud based techniques, *Silvilaser 2008, Edinburgh, UK* (Loan No:821)
10. Hart, J., **2008**, Temporal englacial and subglacial water variability associated with a rapidly retreating glacier, *British Branch of the Glaciological Society, Swansea, UK* (Loan No:808)
11. Hazarika, N., Mitra, S., Gaur, V.K. and Priestley, K., **2008**, Upper Mantle Structure beneath northeast India from broadband seismology, *International Association for Gondwana Research (IAGR) Conference Series 5, Bombay, India, TOIS*, Abstract Volume, pp80-81
12. Houseman, G., Horvath, F. and Bada, G., **2008**, Continental Tectonics in Central and Eastern Europe, *EOS, Transactions, AGU*, 89(9), p86 (Loan No:795)
13. Key, J., Soosalu, H., White, R.S., Drew, J., Einarsson, P. and Jakobsdottir, S.S., **2008**, Deep crustal seismicity beneath Askja volcano, central Iceland: interpretations and future work, *ESC workshop, Seismic phenomena associated with volcanic activity, Leon, Nicaragua*, Sep 2008
14. Key, J., Soosalu, H., White, R.S., Drew, J., Knox, C., Nowacki, A.J., Coffin, M.R., Einarsson, P. and Jakobsdottir, S.S., **2008**, Crustal seismicity beneath Askja volcano, central Iceland, reflecting plate tectonics and magma movement, *IAVCEI General Assembly, Reykjavik, Iceland*, August 2008 (Loan No:842)
15. Kulesa, B., Stuart, G.W., Hobbs, A. and Booth, A., **2008**, Subglacial hydromechanical processes from seismic Amplitude Versus Offset (AVO) monitoring, *Geophysical Research Abstracts, EGU General Assembly* (Loan No:846)
16. Lange, D., Natawidjaja, D., Rietbrock, A., Suwargadi, B. and Tilmann, F., **2008**, Seismicity of the West Sumatran Subduction Zone as Revealed by Local Seismicity, *EOS, Transactions, AGU*, 89 (53), Fall Meet. Suppl., Abstract U51A-0003 (Loan No:858)
17. MacArthur, A. and Malthus, T., **2008**, An Object-Based Image Analysis Approach to the Classification and Mapping of Calluna Vulgaris Canopies, *Remote Sensing and Photogrammetry Society conference 2008, 'Measuring change in the Earth system'. University of Exeter, 15-17 September 2008* (Loan No:836)
18. McNeill, L., Henstock, T., Dean, S., Barton, P., Tilmann, F., Vermeesch, P., Tang, G., Djajadihardja, Y., Permana, H. and the Sumatra Segmentation Project Members, **2008**, Structural and Physical Controls on Segmentation and Earthquake Rupture of the Sumatran Subduction Zone, *EOS, Transactions, AGU*, 89 (53), Fall Meet. Suppl., Abstract U33C-02 (Loan No:828)
19. Mechie, J., Kind, R., Meissner, R., Wenjin, Z., Danian, S., Zhenhan, W., Su, H., Guangqi, X., Brown, L.D., Klemperer, S.L., Karplus, M.S., Tilmann, F.J. and Makovsky, Y., **2008**, Tomographic inversion of Sg arrivals reveals the upper crustal S-velocity structure beneath the INDEPTH IV Transect: NE Tibetan Plateau to Qaidam Basin, *EOS, Transactions, AGU*, 89 (53), Fall Meet. Suppl., Abstract T31B-1952 (Loan No:769)
20. Mitra, S., Hazarika, N., Gaur, V.K. and Priestley, K., **2008**, Lithospheric Structure and Earthquake Focal Depths across the Eastern Himalaya, *International Association for Gondwana Research (IAGR) Conference Series 5, Bombay, India, IIEES*, Abstract no. 140
21. Ross, N., Smith, A.M., Woodward, J., Siegert, M.J., Hindmarsh, R.C.A., Corr, H.F.J., King, E.C. and Vaughan, D.G., **2008**, Radio-Echo Sounding exploration of Subglacial Lake Ellsworth, West Antarctica, *International Symposium on Radioglaciology and its Applications, Madrid, Spain, International Glaciological Society* (Loan No:838)

22. Scott, J.B.T., Smith, A.M., Bingham, R.G. and Gudmundsson, G.H., **2008**, Pine Island Glacier flow increases: Causes and longevity from new ground-based GPS and radar results, *EOS, Transactions, AGU*, 90(53), Fall Meet. Suppl., Abstract C11D-0546 (Loan No:847)
23. Smith, A.M., Woodward, J., Ross, N., Siegert, M.J., Corr, H.F.J., Hindmarsh, R.C.A., King, E.C., Vaughan, D.G. and King, M.A., **2008**, Physical conditions in Subglacial Lake Ellsworth, *Forum for Research in Ice Shelf Processes (FRISP), Annual Workshop, Derbyshire, UK*, Sep 2008 (Loan No:838)
24. Smith, A.M., Woodward, J., Ross, N., Siegert, M.J., Corr, H.F.J., Hindmarsh, R.C.A., King, E.C., Vaughan, D.G. and King, M.A., **2008**, Physical conditions in Subglacial Lake Ellsworth, *EOS, Transactions, AGU*, 89(53), Fall Meet. Suppl., Abstract C11D-0467 (Loan No:838)
25. Soosalu, H., Key, J., White, R.S., Einarsson, P. and Jakobsdottir, S.S., **2008**, Mid-Atlantic rift volcano Askja in Iceland: seismic observations, *ESC workshop, Seismic phenomena associated with volcanic activity, Leon, Nicaragua*
26. Soosalu, H., White, R.S., Key, A.J., Knox, C., Einarsson, P. and Jakobsdottir, S.S., **2008**, Lower-crustal earthquakes reflect magma movements beneath the north Iceland rift near Askja, *Geophysical Research Abstracts, EGU General Assembly, EAGE2008-A-07323*
27. Soosalu, H., White, R.S., Key, J., Einarsson, P. and Jakobsdottir, S.S., **2008**, Magma movement at the roots of Askja volcano, Iceland, indicated by lower-crustal seismicity, *IAVCEI General Assembly, Reykjavik, Iceland*
28. Tilmann, F., Grevemeyer I, Suwargadi, B., Kopp, H. and Flueh E, **2008**, The updip seismic/aseismic transition as seen by aftershocks of the 28 March 2005 Nias and 26 December 2004 Aceh-Andaman earthquakes, *Geophysical Research Abstracts, EGU General Assembly, 10, EGU2008-A-02802* (Loan No:800)
29. Tilmann, F., Grevemeyer I, Suwargadi, B., Kopp, H. and Flueh E, **2008**, The updip seismic/aseismic transition as seen by aftershocks of the 28 March 2005 Nias and 26 December 2004 Aceh-Andaman earthquakes, *EOS, Transactions, AGU*, 89 (53), Fall Meet. Suppl., Abstract T52B-01 (Loan No:800)
30. Wang, J., Tilmann, F., White, R.S. and Bordoni, P., **2008**, Application of Frequency-dependent Multi-Channel Wiener Filters to Events Detection in 2D Three-component Arrays, *American Geophysical Union, Fall Meeting 2008*, Abstract S13B-1794 (Loan No:748)
31. White, R.S., **2008**, Geophysical Mapping of Melt Storage Beneath Rifts, *IAVCEI General Assembly, Reykjavik, Iceland*
32. Woodward, J. and Stewart, I.S., **2008**, Imaging near-surface tectonic structures using GPR: Western Eliki Fault, Gulf of Corinth, Greece, *12th International Conference on Ground Penetrating Radar, Birmingham*, ISBN 978-0-9561121-0-1 (Loan No:693)

## PhD Theses

1. Hazarika, N.K., **2008**, Receiver Function analysis of Broadband seismic data from various stations and modelling the crustal structure of Northeast India, *Tezpur University*
2. Leitao, P., **2008**, Improving species distribution models to describe steppe bird occurrence patterns and habitat selection in southern Portugal, *University of Southampton*(Loan No:819)
3. Miller, M., **2008**, The seismic structure beneath the Aysen region of Chile: Constraints on the subduction of young (< 6 Ma) oceanic plates, *University of Cambridge*

4. Parry, V., **2008**, Densification and refreezing in the percolation zone of the Greenland Ice Sheet: implications for mass balance measurements, *University of Edinburgh*(Loan No:804)
5. Rham, D., **2008**, The crustal structure of the Middle East, *University of Cambridge*
6. Rose, K.C., **2008**, Understanding subglacial processes using a wireless multisensor probe, *University of Southampton*(Loan No:756)