

List of publications in 2009 due to GEF equipment loans

Journal Articles

1. Ayele, A., Keir, D., Ebinger, C., Wright, T., Stuart, G., Jacques, E., Ogbazghi, J. and Sholan, J., **2009**, The September 2005 mega dyke-induced crustal deformation in a nascent oceanic rift domain: Mando-Harraro (Afar Depression), *Geophysical Research Letters*, 36, L20306, doi: 10.1029/2009GL039605 (Loan No:765)
2. Barrand, N.E., James, T.D., Murray, T., Barr, S.L. and Mills, J.P., **2009**, Optimizing photogrammetric DEMs for glacier volume change assessment using laser-scanning derived ground-control points, *Journal of Glaciology*, 55(189), pp106-116 (Loan No:789)
3. Cassidy, N.J., **2009**, Ground-Penetrating Radar in Ground Water Studies, *Groundwater: Modelling, Management and Contamination*, Nova Publishers, USA, pp309-350 (Loan No:730)
4. Edwards, R., Scott, C.L., Shillington, D.J., Minshull, T.A., Brown, P.J. and White, N.J., **2009**, Wide-angle seismic data reveal sedimentary and crustal structure of the Eastern Black Sea, *The Leading Edge*, 28(9), pp1056-1065, doi: 10.1190/1.3236375
5. Ferrier, G., Frostick, L.E. and Splajt, T., **2009**, Application of geophysical monitoring techniques as aids to probabilistic risk-based management of landfill sites, *The Geographical Journal*, 175(4), pp301-314, doi: 10.1111/j.1475-4959.2009.00340.x
6. Gudmundsson, H. and Jenkins, A., **2009**, Ice-flow velocities on Rutford Ice Stream, West Antarctica, are stable over decadal timescales, *Journal of Glaciology*, 55(190), pp339-344, doi: 10.3189/002214309788608697 (Loan No:785)
7. Harland, K.E., White, R.S. and Soosalu, H., **2009**, Crustal structure beneath the Faroe Islands from teleseismic receiver functions, *Geophysical Journal International*, 177, pp115-124, doi: 10.1111/j.1365-246X.2008.04018.x (Loan No:744)
8. Hart, J.K., Rose, K.C., Martinez, K. and Ong, R., **2009**, Subglacial clast behaviour and its implication for till fabric development: new results derived from wireless subglacial probe experiments, *Quaternary Science Reviews*, 28(7-8), pp597-607, doi: 10.1016/j.quascirev.2008.07.020 (Loan No:756)
9. Hetenyi, G., Stuart, G.W., Houseman, G.A., Horvath, F., Hegeds, E. and Bruckl, E., **2009**, Anomalously deep mantle transition zone below Central Europe: Evidence of lithospheric instability, *Geophysical Research Letters*, 36(21), L21307, doi: 10.1029/2009GL040171
10. Jay, A.E., Mac Niocaill, C., Widdowson, M., Self, S. and Turner, W., **2009**, New palaeomagnetic data from the Mahabaleshwar Plateau, Deccan Flood Basalt Province, India: implications for the volcanostratigraphic architecture of continental flood basalt provinces, *Journal of the Geological Society of London*, 166, pp13-24, doi: 10.1144/0016-76492007-150 (Loan No:734)
11. Kaviani, A., Hatzfeld, D., Paul, A., Tatar, M. and Priestley, K., **2009**, Shear-wave splitting, lithospheric anisotropy, and mantle deformation beneath the Arabia-Eurasia collision zone in Iran, *Earth and Planetary Science Letters*, 286, pp371-378, doi: 10.1016/j.epsl.2009.07.003
12. Keir, D., Ayele, A., Calais, E., Hamling, I., Ebinger, C., Wright, T.J., Jacques, E., Kassim, M., Hammond, J.O.S., Belachew, M., Baker, E. and Rowland, J., **2009**, Repeated dike injection sourced beneath the center of the Dabbahu segment in the Afar rift, *Geology*, 37, pp59-62, doi: 10.1130/G25147A.1 (Loan No:803)

13. Keir, D., Bastow, I.D., Whaler, K.A., Daly, E., Cornwell, D.G. and Hautot, S., **2009**, Lower crustal earthquakes near the Ethiopian rift induced by magmatic processes, *Geochemistry, Geophysics, Geosystems*, 10, Q0AB02, doi: 10.1029/2009GC002382 (Loan No:721)
14. Lodge, A. and Helffrich, G., **2009**, Grid-search Inversion of Teleseismic Receiver Functions, *Geophysical Journal International*, 178, pp513-523, doi: 10.1111/j.1365-246X.2009.04176.x (Loan No:703)
15. Lorinczi, P. and Houseman, G.A., **2009**, Lithospheric gravitational instability beneath the Southeast Carpathians, *Tectonophysics*, 474(1-2), pp322-336, doi: 10.1016/j.tecto.2008.05.024 (Loan No:795)
16. Medhus, A.B., Balling, N., Jacobsen, B.H., Kind, R. and England, R., **2009**, Deep-structural differences in southwestern Scandinavia revealed by P-wave travel time residuals, *Norwegian Journal of Geology*, 89, pp203-214 (Loan No:783)
17. Murray, J., van Wyk de Vries, B., Marquez, A., Williams, D.A., Byrne, P., Muller, J.P. and Kim, J.R., **2009**, Late-stage water eruptions from Ascræus Mons volcano, Mars: implications for its structure and history, *Earth and Planetary Science Letters*, doi: 10.1016/j.epsl.2009.06.020 (Loan No:869)
18. Rose, K.C., Hart, J.K. and Martinez, K., **2009**, Seasonal Changes in Basal Conditions at Briksdalsbreen Norway: The Winter Spring Transition, *Boreas*, 38, pp579-590, doi: 10.1111/j.1502-3885.2008.00079.x (Loan No:782)
19. Scott, J.B.T., Gudmundsson, G.H., Smith, A.M., Bingham, R.G., Pritchard, H.D. and Vaughan, D.G., **2009**, Increased rate of acceleration on Pine Island Glacier strongly coupled to changes in gravitational driving stress, *Cryosphere*, 3(1), p125, doi: 10.5194/tc-3-125-2009 (Loan No:887)
20. Wang, J., Tilmann, F., White, R.S. and Bordoni, P., **2009**, Application of Frequency-dependent Multi-Channel Wiener Filters to Event Detection in 2D Three-component Seismometer Arrays, *Geophysics*, 74(6), pp133-141, doi: 10.1190/1.3256282 (Loan No:748)

Conference Papers/Proceedings

1. Leitao, P.J., Osborne, P.E., Moreira, F. and Hostert, P., **2009**, Modelling steppe bird habitats and occurrence patterns - a remote sensing approach, *39th annual conference of the Ecological Society of Germany, Austria and Switzerland: Dimensions of ecology - from global change to molecular ecology, Bayreuth, Germany* (Loan No:819)
2. Bais, G., White, R.S., Worthington, M.H., Andersen, M.S. and the SeiFaBa Group, **2009**, Seismic properties of Faroe basalts from borehole and surface data, *Faroe Islands Exploration Conference: Proceedings of the 2nd Conference, Annales Societatis Scientiarum Faeroensis, Supplementum 50*, pp67-83 (Loan No:744)
3. Bondo, A., Balling, N., Jacobsen, B.H., England, R.W., Kind, R., Bødvarsson, R., Weidle, C., Gregersen, S. and Voss, P., **2009**, An anomalous upper mantle unit beneath southern Norway revealed by P-wave travel time residuals, *Geophysical Research Abstracts, EGU General Assembly* (Loan No:783)
4. Bordoni, P., Cara, F., Di Giulio, G., Haines, A.J., Milana, G. and Rovelli, A., **2009**, Seismic response and wavefield characterization using a very dense 2D seismic array on an active landslide Cavola, Italy, *SSA 2009 Meeting, Monterey, California, USA, Seismological Society of America*, Special Session on Earthquake-induced Ground Failure and Site Response: Theory to Observations (Loan No:748)

5. Chow, H., Tilmann, F., J, Priestley, K., F, Zhao, W., Wu, Z., Shi, D., Sandvol, E., A, Ni, J., F, Mechie, J. and Chen, J, **2009**, Teleseismic P-wave Tomography Image for Northeastern Tibet, *American Geophysical Union, Fall Meeting 2009*, Abstract T11B-1809
6. England, R.W., Brisbourne, A.M., Hawthorn, D. and Lane, V., **2009**, Integrated Geophysical support for the UK Earth Science Community, *American Geophysical Union, Fall Meeting 2009*
7. Hautot, S., Whaler, K.A., Desissa, M., Dawes, G., Fisseha, S. and Johnson N, **2009**, 3-D Conductivity structure of an active magmatic segment associated with the final stage of continental break-up: Afar, Ethiopia, *EOS, Transactions, AGU*, 90, Fall. Meet. Suppl., Abstract T43F-07 (Loan No:855)
8. Henstock, T.J. and the Sumatra Segmentation Project Team, **2009**, Structure and physical properties of the Sumatran subduction zone: Links to segmentation and earthquake rupture, *Geophysical Research Abstracts, EGU General Assembly*, 11, EGU2009-11116-1 (Loan No:828)
9. Jansen, D., Kulesa, B., Luckman, A., Sammonds, P. and King, E.C., **2009**, Modelling Ice flow velocity for the Larsen C: implications for ice shelf stability, *International Symposium on Glaciology in the International Polar Year 2009, Newcastle, UK, International Glaciological Society* (Loan No:863)
10. Karplus, M., Klemperer, S., L, Mechie, J., Shi, D., Zhao, W., Brown, L., D and Wu, Z., **2009**, Shallow and deep crustal velocity models of Northeast Tibet, *American Geophysical Union, Fall Meeting 2009*, Abstract T11B-1808
11. Key, J., Soosalu, H., White, R.S., Drew, J., Einarsson, P. and Jakobsdottir, S.S., **2009**, Distribution of seismicity beneath Askja volcano, central Iceland, reflecting plate tectonics and melt movements, *Frontiers of Seismology, Edinburgh, UK*, April 2009 (Loan No:857)
12. Key, J., Soosalu, H., White, R.S., Drew, J., Einarsson, P. and Jakobsdottir, S.S., **2009**, Deep crustal seismicity beneath Askja volcano, central Iceland: interpretations and future work, *ESC Working Group, Azores, Sep 2009* (Loan No:857)
13. Key, J., Soosalu, H., White, R.S. and Jacobsdottir, S.S., **2009**, Using lower crustal earthquakes below Askja volcano, central Iceland to map melt movements and plumbing geometry, *EOS, Transactions, AGU*, 90(52), Fall Meet. Suppl., Abstract V21C-2014 (Loan No:857)
14. Kulesa, B., Jansen, D., King, E.C., Barrett, B.E., King, M.A., Luckman, A. and Sammonds, P.R., **2009**, Present and future stability of the Larsen C ice shelf (SOLIS), *8th Antarctic Funding Initiative Workshop, Cambridge, UK, British Antarctic Survey* (Loan No:863)
15. Kulesa, B., King, E.C., Barrett, B.E., Jansen, D., Luckman, A., Sammonds, P.A. and King, M.A., **2009**, Is ice mechanical heterogeneity controlling the stability of the Larsen C ice shelf?, *2009 Joint WAIS/FRISP Workshop, Eatonville, Washington, USA* (Loan No:863)
16. Kulesa, B., King, E.C., Barrett, B.E., Jansen, D., Luckman, A., Sammonds, P.R. and King, M.A., **2009**, Structure and mechanical properties of the southern Larsen C ice shelf from in-situ geophysical measurements - preliminary results, *International Symposium on Glaciology in the International Polar Year 2009, Newcastle, UK, International Glaciological Society* (Loan No:863)
17. Kulesa, B., King, E.C., Jansen, D., Luckman, A. and Sammonds, P., **2009**, Ice structure and rheological properties of the Larsen C ice shelf: preliminary results, *CEH Meeting, Copenhagen, Denmark, March 2009* (Loan No:863)

18. Lange, D., Tilmann, F., Rietbrock, A., Collings, R., Natawidjaja, D., Suwargadi, B. and C.hamberlin, P., **2009**, Local Seismicity of the West Sumatran Subduction Zone, *Geophysical Research Abstracts, EGU General Assembly*, 11, EGU2009-010602 (Loan No:858)
19. Leitao, P.J., Moreira, F. and Osborne, P.E., **2009**, Habitat selection by agricultural steppe birds in Baixo Alentejo and the Castro Verde SPA, *VI Congresso de Ornitologia da SPEA - IV Congresso Iberico de Ornitologia, Elvas, Portugal* (Loan No:819)
20. Osborne, P.E., Leitao, P.J. and Moreira, F., **2009**, Multiscale species distribution modelling and the benefits and pitfalls of very high resolution environmental data, *EOU 2009 - 7th Conference of the European Ornithologists` Union, Zurich, Switzerland* (Loan No:819)
21. Ross, N., Smith, A.M., Woodward, J., Siegert, M.J., Corr, H.F.J., Hindmarsh, R.C.A., King, E.C. and Vaughan, D.G., **2009**, Ice flow and catchment morphology of Subglacial Lake Ellsworth as revealed by ice-penetrating radar, *International Symposium on Glaciology in the International Polar Year 2009, Newcastle, UK, International Glaciological Society* (Loan No:838)
22. Ross, N., Smith, A.M., Woodward, J., Siegert, M.J., Corr, H.F.J., Hindmarsh, R.C.A., King, E.C. and Vaughan, D.G., **2009**, Geophysical Exploration of Subglacial Lake Ellsworth, West Antarctica, *8th Antarctic Funding Initiative Workshop, Cambridge, UK, British Antarctic Survey* (Loan No:838)
23. Ross, N., Smith, A.M., Woodward, J., Siegert, M.J., Corr, H.F.J., King, E.C., Hindmarsh, R.C.A. and Vaughan, D.G., **2009**, Geophysical characterisation of Subglacial Lake Ellsworth, West Antarctica, *Geophysical Research Abstracts, EGU General Assembly*, 11, EGU2009-1088 (Loan No:838)
24. Ross, N., Smith, A.M., Woodward, J., Siegert, M.J., Hindmarsh, R.C., Corr, H.F.J., King, E.C., Vaughan, D.G., Gillet-Chaulet, F. and Jay-Allemand, M., **2009**, Ice flow dynamics and outlet zone morphology of Subglacial Lake Ellsworth, *American Geophysical Union, Fall Meeting 2009*, Abstract U53C-02 (Loan No:838)
25. Sandvol, E.A., Chen, Y.J., Ni, J.F., Tilmann, F.J., Zhou, S., Ma, Y., Zhang, X., Yue, H., Ceylan, S., Bao, X. and Hearn, T.M., **2009**, Seismic Velocity Structure of the Northeastern Tibetan Plateau: A Review of The ASCENT Seismic Experiment, *American Geophysical Union, Fall Meeting 2009*, Abstract T13G-04
26. Vermeesch, P.M., Henstock, T.J., Lange, D., McNeill, L.C., Barton, P.J., Tang, G., Bull, J.M., Tilmann, F., Dean, S.M., Djajadihardja, Y. and Permana, H., **2009**, 3D tomographic seismic imaging of the southern rupture barrier of the great Sumatra-Andaman 2005 earthquake, *Geophysical Research Abstracts, EGU General Assembly*, 11, EGU2009-115090-2 (Loan No:828)
27. Wang, H., Chen, Y.J., Sandvol, E.A., Zhou, S., Ge, Z., Feng, Y., Wang, Y., Yue, H., Tang, Y., Wei, S.S., Fan, W., Cao, Y., Li, P., Wang, R., Hearn, T.M. and Ni, J.F., **2009**, Seismic Anisotropy of Northern Tibet: Combine data from Indepth IV array and permanent stations, *American Geophysical Union, Fall Meeting 2009*, Abstract T11B-1803
28. Wei, S., S, Chen, Y., J, Yue, H., Jin, G., Liang, X., Zhou, S., Ge, Z., Feng, Y., Wang, Y., Tang, Y., Wang, H., Fan, W., Cao, Y., Li, P., Wang, R., Sandvol, E.A., Hearn, T.M. and Ni, J.F., **2009**, Indepth IV Passive Seismic Array: Locating Regional Earthquakes in Northern Tibet, *American Geophysical Union, Fall Meeting 2009*, Abstract T11B-1801
29. White, R.S., Drew, J., Soosalu, H., Key, J. and Jakobsdottir, S.S., **2009**, Anatomy of Melt Intrusion at 15-18 km depth beneath Upptyppingar, Iceland, *JSR 2009, Reykjavik, Iceland* (Loan No:842)

30. White, R.S., Drew, J., Soosalu, H., Key, J. and Jakobsdottir, S.S., **2009**, Anatomy of Melt Intrusion at 15-18 km depth beneath Upptyppingar, Iceland, *ESC Working Group, Azores*, Sep 2009 (Loan No:842)
31. Wilde-Piorko, M. and the Passeq Working Group, **2009**, PASSEQ 2006-2008 - Passive Seismic Experiment in Trans-European Suture Zone in Central Europe, *Geophysical Research Abstracts, EGU General Assembly* (Loan No:814)
32. Woodward, J., Smith, A.M., Ross, N., Thoma, M., Siegert, M.J., Corr, H.F.J., King, E.C., Vaughan, D.G. and King, M.A., **2009**, Bathymetry and basal mass balance of Subglacial Lake Ellsworth, West Antarctica, *International Symposium on Glaciology in the International Polar Year 2009, Newcastle, UK, International Glaciological Society* (Loan No:838)
33. Woodward, J., Tulaczyk, S., Smith, A.M., Walter, J., Ross, N., Fricker, H., Siegert, M.J., Pettersson, R., Thoma, M. and Corr, H.F.J., **2009**, Geophysical investigations of subglacial Antarctic lakes: identifying drill sites for lake access, *American Geophysical Union, Fall Meeting 2009*, Abstract U53C-04 (Loan No:916)
34. Yue, H., Chen, Y.J., Sandvol, E.A., Hearn, T.M., Zhou, S., Ge, Z., Wang, Y., Tang, Y., Liang, X., Wei, S.S., Wang, H., Ni, J.F. and Feng, Y., **2009**, Crust and Upper Mantle Characteristic of Northern Tibet: Receiver function results of Indepth IV array, *American Geophysical Union, Fall Meeting 2009*, Abstract T11B-1794 (Loan No:769)

PhD Theses

1. Acton, C., **2009**, Shear velocity structure of the India-Asia collision zone, *University of Cambridge*(Loan No:774)
2. Lane, V.S., **2009**, An evaluation of the MCSM (Multi-Component Seismic Microtremor) method for determining the engineering properties of the shallow sub-surface, *University of Keele*(Loan No:848)
3. Styles, K., **2009**, 3D shear attenuation and shear-wave splitting from local events in the Hikurangi subduction zone, North Island, *The University of Leeds*(Loan No:773)