

AIRBORNE RESEARCH & SURVEY FACILITY

PUBLICATIONS FOR THE CALENDAR YEAR 2010.

JOURNAL PUBLICATIONS

ISI Referred (All Public Sector):

International: (11)

Antonarakis, A.S., Richards, K.S., Brasington, J., Bithell, M. and Muller, E. (2010) Determining LAI and leafy tree roughness using terrestrial lidar. *Water Resources Research*, 46. doi: 10.1029/2009WR008595.

Bateson, L., Vellico, M., Beaubien, S. E., Pearce, J., Annunziatellis, A., Ciotoli, G., Coren, F., S Lombardi, W. & Marsh, S. (2010) . The application of remote-sensing techniques to monitor CO₂-storage sites for surface leakage : method development and testing at Latera (Italy) where naturally produced CO₂ is leaking to the atmosphere. *International Journal of Greenhouse Gas Control*. 2, 388-400.

Conway, S. J., Decaulne, A., Balme, M. R., Murray, J. B. and Towner, M.C. (2010) A new approach to estimating hazard posed by debris flows in the Westfjords of Iceland. *Geomorphology*, Volume 114, 556-572

Gaulton, R. & Malthus, T. (2010) LiDAR mapping of canopy gaps in continuous cover forests: A comparison of canopy height model and point cloud based techniques. *International Journal of Remote Sensing*. 31. 1193-1211.

Grebbly, S., Cunningham, D., Naden, J. and Tansey, K (2010). Lithological mapping of the Troodos ophiolite, Cyprus, using airborne LiDAR topographic data. *Remote Sensing of Environment*. 114, 713-724.

Garcia, M., Riaño, D, Chuvieco, E., Danson, F.M., (2010), Estimating biomass carbon stocks for a Mediterranean forest in central Spain using LiDAR height and intensity data. *Remote Sensing of Environment*, 114, 816-830.

Hill, R.A., Wilson, A.K., George, M., & Hinsley, S.A. (2010) Mapping tree species in temperate deciduous woodland using time-series multi-spectral data. *Applied Vegetation Science*, 13, 86-99.

Hunter, P. D., Tyler, A. N., Carvalho, L., Codd, G. A. & Maberly, S. C (2010). Hyperspectral remote sensing of cyanobacterial pigments as indicators for cell populations and toxins in eutrophic lakes. *Remote Sensing of Environment*. 114, 2705-2718

Hunter, P. D., Gilvear, D. J., Tyler, A. N., Willby, N. J. & Kelly, A. (2010). Mapping macrophytic vegetation in shallow lakes using the Compact Airborne Spectrographic Imager (CASI). *Aquatic conservation-Marine and Freshwater Ecosystems*. 20, 717-727

Lee, J. D., McFiggans, G., Allan, J. D., Baker, A. R., Ball, S. M., Benton, A. K., Carpenter, L. J., Commane, R., Finley, B. D., Evans, M., Fuentes, E., Furneaux, K., Goddard, A., Good, N., Hamilton, J. F., Heard, D. E., Herrmann, H.,

Hollingsworth. Hopkins. A. J. R., Ingham. T., Irwin. M., Jones. C. E., Jones, R. L., Keene. W. C., Lawler. M. J., Lehmann. S., Lewis. A. C., Long. M. S., Mahajan, A., Methven. J., Moller. S. J., Müller. K., Müller. T., Niedermeier. N., O'Doherty. S., Oetjen. H., Plane. J. M. C., Pszenny. A. A. P., Read. K. A., Saiz-Lopez. A., Saltzman. E. S., Sander. R., von Glasow. R. , Whalley. L. , Wiedensohler. A. , and Young. D. (2010). Reactive Halogens in the Marine Boundary Layer (RHAMBLe): the tropical North Atlantic experiments. *Atmospheric Chemistry and Physics*, 10, 1031-1055.

Santini, F., Albertanza, L., Cavalli, R. M. & Pignatti. S (2010). A two-step optimization procedure for assessing water constituent concentrations by hyperspectral remote sensing techniques: An application to the highly turbid Venice lagoon waters. *Remote Sensing of Environment*. 114. 887-898.

Non-ISI /conference proceedings (All Public Sector):
International (13)

Bandugula, V., Danson, F.M., Ramirez, F.A., Armitage, R.P. & Gaulton, R., (2010), Height characterisation in a UK forest using multi-temporal airborne and terrestrial laser scanning. *In Proceeding of ForestSat2010, Lugo, Spain, 7-10 September 2010.*

Bennett, R., Welham, K., Hill, R.A., & Ford, A. (2010). Analysing the Vegetation Information Content of Airborne Remotely Sensed Data with Respect to Improving Understanding of Archaeological Features. *In Proceedings of RSPSoc Annual Conference, Cork, Ireland, September 2010.*

Bennett, R., Welham, K., Hill, R.A., & Ford, A. (2010). Multisensor Airborne Remote Sensing Techniques for Archaeological Survey and Interpretation. *In Proceedings of the AARG annual conference, Bucharest, Romania.*

Bramham. E., Wright. T., Paton. D. & Sigmundsson. F. (2010). The Role of Magmatism in Active Rifting: using LiDAR to investigate long term strain at Krafla, NE Iceland. *Magma Transport Workshop, Iceland, 2010.*

Donoghue. D., Dunning, S. Warburton. J., Russel. A & Large. A. (2010) A quantitative assessment of erosion / deposition patterns in the 2009 Derwent flood event. *In Proceedings of RSPSoc Annual Conference, Cork, Ireland, September 2010.*

Dold, J., Tsitsopoulos, V., Khan, I., Scott, K., McMorrow, J., Lowe, Danson, F.M., Ramirez, F.A., Doerr, S., Bryant, R., Harris, M., Tollitt, T., Allen, K., Wooster, M., Paugam, R., Freeborn, P., Smith, T., Davies, H., Legg, C., Gibson, S., Elliott, A., Yearsley, S. (2010). Report on field experiments in Northumberland, March 2010, VI International Conference on Forest Fire Research, Coimbra, Portugal, 15-18 November, 2010. *In Proceedings of the VI International Conference on Forest Fire Research, Coimbra, Portugal. .*

Ford. A. (2010) Coupling InSAR, airborne LiDAR and DGPS to quantify mass-movement on the Jurassic coast. In *Proceedings of RSPSoc Annual Conference*, Cork, Ireland, September 2010.

Frampton. W. J., Vuolo. F. & Dash J. (2010) Influence of the soil on the MTCl. In *Proceedings of RSPSoc Annual Conference*, Cork, Ireland, September 2010.

Hofmann. B., Wright. T., Rowland. J., Paton. D. & Abebe. B. (2010) Analysing fault growth at the continental break up zone in Afar, Ethiopia. AGU Fall Meeting, San Francisco, 2010

Llewellyn, G., Taylor. B., Land. P., Goy., P., Johnson. J., Davies. D., Joseph. C., Carolan. E., Warren. M., Grant. M., Groom. S. & Purcell. P. (2010) The Influence of solar position on the grassland red-edge and weathered asphalt. In *Proceedings of RSPSoc Annual Conference*, Cork, Ireland, September 2010.

McMorrow. J., Danson. F. M. & Clay. G. D. (2010) Hyperspectral remote sensing of moorland wildfire scars. In *Proceedings of RSPSoc Annual Conference*, Cork, Ireland, September 2010.

Sumnall, M.J., Hill, R.A., & Hinsley, S.A. (2010). The assessment of habitat condition and conservation status of lowland British woodland using earth observation techniques. In *Proceedings of RSPSoc Annual Conference*, Cork, Ireland, September 2010.

Williams, M. & Russel. A. (2010) An evaluation of reflectance correction approaches for VIS-SWIR airborne imagery in high latitude glaciated environments. In *Proceedings of RSPSoc Annual Conference*, Cork, Ireland, September 2010.
National (1)

Hofmann. B., Wright. T., Rowland. J. & Paton. D. (2010). Analysing fault growth at the continental break up zone in Afar, Ethiopia. Anderson Conference, Glasgow, 2010

PhD thesis (1)

Conway, S. J. (2010). Debris flows on Earth and Mars. Earth and Environmental Sciences, Open University, PhD Thesis.