

AIRBORNE RESEARCH & SURVEY FACILITY

PUBLICATIONS FOR THE CALENDAR YEAR 2008.

JOURNAL PUBLICATIONS

ISI Referred (All Public Sector):

International: (17)

Adam S, De Backer A, Degraer S, Monbaliu J, Toorman E A., Vincx M (2008). Chapter 9 Sediment characterization of intertidal mudflats using remote sensing *Proceedings in Marine Science*, Volume 9, 2008, Pages 109-124

Allen, G., Vaughan, G., Bower, K.N, Williams, P. I., Crosier, J., Flynn, M., Connoly, P., Hamilton, J.F, Lee, J. D., Saxton, J. E., Watson, N. M., Gallagher, M., Coe. H., Allan, J., Choularton, T. W. and Lewis, A. C. (2008). Aerosol and trace-gas measurements in the Darwin area during the wet season. *Journal of Geophysical Research*, 113, 1-19

Amii R., Darnell, A. R., Tate, N. J. and Brunson, C. (2008). Improving user assessment of error implications in digital elevation models. *Computers, Environment and Urban Systems*, 32, 268-277

Antonarakis A.S., Richards K.S., Brasington J. (2008). Object-based land cover classification using airborne LiDAR. *Remote Sensing of Environment*, Volume 112, Issue 6, 16 June 2008, Pages 2988-2998

Bateson, L., Vellico. M., Beaubien, S. E., Pearce, J. M., Annunziatellis. A., Ciotoli, G., Coren, F., Lombardi, S. and Marsh. S. (2008). 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.

Bennett, M. R., Huddart, D., and Silvia Gonzalez, S. (2008). Glaciovolcanic landsystems and large-scale glaciotectonic deformation along the Brekknafjöll–Jarlhettur, Iceland. *Quaternary Science Reviews*, 28, 647-676.

Blackburn, G.A. and Ferwerda, J.G. (2008). Retrieval of chlorophyll concentration from leaf reflectance spectra using wavelet analysis. *Remote Sensing of Environment*. 112, 1614–1632.

Devereux,B.J; Amable, G.S and Crow, P. (2008). Visualisation of LIDAR terrain models for archaeological feature detection. *Antiquity* 82 no 316, 470-479.

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 (Edinburgh, September 17-19)*, 407 – 416.

Hay, K.G., Wright, S., Duxbury, G., and Langford, N. (2008). In-flight measurements of ambient methane, nitrous oxide and water using a quantum cascade laser based spectrometer. *Applied Physics B: Lasers and Optics*, 90, 329 – 337.

Hinsley, A. S., Hill, R. A., Bellamy, P. E., Harrison, N. M, Speakman, J. R, Wilson, A. K., and Ferns, P. N (2008). Effects of structural and functional habitat gaps on breeding woodland birds: working harder for less. *Landscape Ecology*, 23, 615-626.

Hunter, P. D., Tyler, A. N., Willby, N. J. and Gilvear, D. J. (2008). The spatial dynamics of vertical migration by *Microcystis aeruginosa* in a eutrophic shallow lake: a case study using height spatial resolution time-series airborne remote sensing. *Limnology Oceanography*, 53, 2391-2406.

Miller, P., Mills, J., Edwards, S., Bryan, P., Marsh, S., Mitchell, H. and Hobbs, P. (2008). A robust surface matching technique for coastal geohazard assessment and management. *ISPRS Journal of Photogrammetry and Remote Sensing*, 63, 529-542

O’Leary, M. O., Arnold, N. and Rees, G. (2008). A high-resolution airborne survey of the albedo of Midre Lovenbreen, Svalbard, *Geophysical Research Abstracts*, 10

Read, K.A., Mahajan, A. S., Carpenter, L. J., Evans, M. J., Faria, B. V. E., Heard, W. E., Hopkins, J. R., Lee, J. D., Moller, M. J., Lewis, A. C., Mendes, L., McQuaid, J. B., Oetjen, H., Saiz-Lopez, A., Pilling, M. J. and Plane, J. M. C. (2008). Extensive halogen-mediated ozone destruction over the tropical Atlantic Ocean. *Nature*, 453, 1232-1235

Rumsby B.T., Brasington J., Langham J.A., McLelland S.J., Middleton R., Rollinson G. (2008). Monitoring and modelling particle and reach-scale morphological change in gravel-bed rivers: Applications and challenges *Geomorphology*, Volume 93, Issues 1-2, 1 January 2008, Pages 40-54

Stewart, S. F., Pinkerton, H., Blackburn, G. A. and Guðmundsson , M. T. (2008). Monitoring active subglacial volcanoes: a case study using airborne remotely sensed imagery of Grímsvötn, Iceland. *IJRS*, 29, 6501-6514.

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

International (15)

Almoustafa, T., Armitage, R. & Danson, M. (2008). Fuel moisture content FMC estimation in moorland vegetation for fire risk assessment. *Proceedings of RSPSoc 2008, Exeter*. 180.

Aqduş, S. A., Drummond, J. and Hanson, W. S. (2008). Discovering archaeological cropmarks: a hyperspectral approach. *The International Archives of the Photogrammetry, Remote sensing and Spatial Information Services*. Vol XXXVII. Part B7. Beijing 2008, 361-366

- Conway S. J., Balme M.R., Murray J. B., Towner M. C. and Kim J. R. (2008).** Icelandic debris flows and their relationship to Martian gullies, at *Workshop on Martian Gullies: Theories and Tests, 4-5 February 2008*, LPI, Houston, Texas, oral presentation
<http://www.lpi.usra.edu/meetings/gullies2008/pdf/8024.pdf>
- Conway S. J., Balme M. R., Murray J. B. and Towner M. C. (2008).** Icelandic debris flows and their relationship to Martian gullies. *British Society for Geomorphology Annual Meeting, 2-4 July 2008, Exeter University, UK*, poster
- Conway S. J., Balme M. R., Towner M. C., Murray J. B. and Decaulne A. (2008).** Recent gullies on Mars - does this mean water on Mars? *UK Planetary Forum 6th Early Career Scientist's Meeting, 3 November 2008, UCL, London*, oral presentation
- Conway S. J., Decaulne A., Balme M.R., Murray J.B. and Towner M.C. (2008).** How is High Resolution Data Helping to Find Water on Mars and Manage Hazards in Iceland? At the *Geological Remote Sensing Group Annual Meeting 10-11 December 2008, Burlington House, London*, oral presentation
- Ebai II, H. S., Phillips, M. E. & Wray, D. (2008).** Assessment of the impact of Gold Mine Tailings in Rodalquilar, Spain, using GIS and remote sensing. *Proceedings of RSPSoc 2008, Exeter*. 184.
- Haq, M., Cutler, M. & Werritty, A. (2008).** Remote sensing of landslide hazard in the UK. *Proceedings of RSPSoc 2008, Exeter*. 151.
- Land, P. E., Cheruku, N. & Tilstone, G. (2008).** Primary production in a turbid estuary measured from aircraft. *Proceedings of RSPSoc 2008, Exeter*. 158.
- MacArthur, A. A. & Malthus, T. J. (2008).** The object-based classification of heather canopies on upland moors. *Proceedings of RSPSoc 2008, Exeter*. 160-160.
- Milton, E. J., Anderson, K., Boyd, D., Brown, K., Disney, M., Jay, V., Mackin, S., Malthus, T. J., McGonigle, A., Pergrum-Browning, H., Sanchez-Hernandez, C., Steven, M. D., Thomson, A., Williams, M and Wilson, A. (2008).** The Network for Calibration and Validation in Earth Observation (NCAVEO) Field Campaign, 2006. *Proceedings of RSPSoc 2008, Exeter*. 89.
- Russell, A; Blauvelt, D; Williams, M; Large, A; Bjornsson, H; Johannesson, H; Haraldsson, H; Gregory, A; and Fleisher, P (2008).** Geomorphological impact of the October 2004 jokulhaup, Skeidrarjokull, Iceland. *Proc. Int. Assoc. Volcanology & Chemistry of the Earth's Interior (IAVCEI 2008 General assembly, Reykjavik)*
- Taylor, B., Groom, S., Grant, M., Llewellyn, G. & Warren, M. (2008).** The NERC Airborne Research and Survey Facility: Data processing issues from 2007-8 and future improvements. *Proceedings of RSPSoc 2008, Exeter*. 72.
- Vaughan, G., Schiller, C., MacKenzie, A. R., Bower, K., Peter, T, Schlager, H., Harris, N. R. P. and May, P. T. (2008).** SCOUT-O3/ACTIVE High-altitude Aircraft

Measuring around Deep Tropical Convection. *American Meteorological Society (May)*, 647 – 662.

White, D. C., Williams, M. and Barr, S. L. (2008). Detecting sub-surface soil disturbance using hyperspectral first derivative band ratios of associated vegetation stress. *The International Archives of the Photogrammetry, Remote sensing and Spatial Information Services*. Vol XXXVII. Part B7. Beijing 2008, 243-248.

Williams, M., White, D. C. & Barr, S. L. (2008). The potential for robust operational vegetation stress detection from airborne visible-NIR hyperspectral imaging under heterogeneous measurement conditions. *Proceedings of RSPSoc 2008, Exeter*. 116-117.