



## Selected outputs, publications (since 2010)

### Peer-reviewed articles

- Krabbendam, M. & Bradwell, T., 2014. Quaternary evolution of glaciated gneiss terrains: pre-glacial weathering vs. glacial erosion. *Quaternary Science Reviews*, **95**, 20-42.
- Krabbendam, M., Leslie, A. G. & Goodenough, K. M., 2014. Structure and stratigraphy of the Morar Group in Knoydart, NW Highlands: implications for the history of the Moine Nappe and stratigraphic links between the Moine and Torridonian successions. *Scottish Journal of Geology*, **50**, 125-142.
- Lukas, S., Benn, D. I., Boston, C. M., Brook, M. S., Coray, S., Evans, D. J. A., Graf, A., Kellerer-Pirklbauer-Eulenstein, A., Kirkbride, M. P., Krabbendam, M. et al. 2013. Clast shape analysis and clast transport paths in glacial environments: A critical review of methods and the role of lithology. *Earth-Science Reviews*, **121**, 96-116.
- Goodenough, K. M., Crowley, Q., Krabbendam, M. & Parry, S. F., 2013. New U-Pb age constraints for the Laxford Shear Zone, NW Scotland: Evidence for tectono-magmatic processes associated with the formation of a Paleoproterozoic supercontinent. *Precambrian Research*, **233**, 1-19.
- Bradwell, T., 2013. Identifying palaeo-ice-stream tributaries on hard beds: Mapping glacial bedforms and erosion zones in NW Scotland. *Geomorphology* **201**, 397-414.
- Raine, R. & Smith, M., 2012. Sequence stratigraphy of the Scottish Laurentian Margin and recognition of the Sauk Megasequence. In: Derby, J., Fritz, R., Longacre, S., Morgan, W. & Sternbach, C. (eds). *The Great American Carbonate Bank: The Geology and Economic Resources of the Cambrian-Ordovician Sauk Megasequence of Laurentia* AAPG Memoir, 575-596.
- Krabbendam, M. & Rainbird, R., 2012. Discussion: A unifying model for the Torridon Group (early Neoproterozoic), NW Scotland: Product of post-Grenvillian extensional collapse. *Earth-Science Reviews*, **111**, 82-85.
- Bonsor, H., Strachan, R., Prave, A. & Krabbendam, M., 2012. Sedimentology of the early Neoproterozoic Morar Group in northern Scotland: implications for basin models and tectonic setting. *Journal of the Geological Society of London*, **169**, 53-65.
- Krabbendam, M., Strachan, R. A., Leslie, A. G., Goodenough, K. M. & Bonsor, H. C., 2011. The internal structure of the Moine Nappe Complex and the stratigraphy of the Morar Group in the Fannichs-Beinn Dearg area, NW Highlands. *Scottish Journal of Geology*, **47**, 1-20.
- Krabbendam, M. & Glasser, N., 2011. Glacial erosion and bedrock properties in NW Scotland: Abrasion and plucking, hardness and joint spacing. *Geomorphology*, **130**, 374-383.
- Krabbendam, M. & Bradwell, T., 2011. Lateral plucking as a mechanism for elongate erosional glacial bedforms: explaining megagrooves in Britain and Canada. *Earth Surface Processes and Landforms*, **36**, 1335-1349.
- Goodenough, K. M., Millar, I., Strachan, R. A., Krabbendam, M. & Evans, J. A., 2011. Timing of regional deformation and development of the Moine Thrust Zone in the Scottish Caledonides: constraints from the U-Pb geochronology of alkaline intrusions. *Journal of the Geological Society of London*, **168**, 99-114.
- Strachan, R. A., Holdsworth, R. E., Krabbendam, M. & Alsop, G. I., 2010. The Moine Supergroup of NW Scotland: insights into the analysis of polyorogenic supracrustal sequences. In: Law, R., Butler, R. W. H., Holdsworth, R. E., Krabbendam, M. & Strachan, R. A. (eds). *Continental Tectonics and Mountain Building: The Legacy of Peach and Horne*. Geological Society, London, Special Publication, 231-252.
- Lukas, S. & Bradwell, T., 2010. Reconstruction of a Lateglacial (Younger Dryas) mountain ice field in Sutherland, northwestern Scotland, and its palaeoclimatic implications. *Journal of Quaternary Science*, **25**, 567-580.
- Leslie, A. G., Krabbendam, M., Kimbell, G. S. & Strachan, R. A., 2010. Regional-scale lateral variation and linkage in ductile thrust architecture: the Oykel Transverse Zone, and



- mullions, in the Moine Nappe, NW Scotland. *In: Law, R., Butler, R. W. H., Holdsworth, R. E., Krabbendam, M. & Strachan, R. A. (eds). Continental Tectonics and Mountain Building: The Legacy of Peach and Horne.* Geological Society. London, Special Publication, **335**, 357-380.
- Law, R. D., Butler, R. W. H., Holdsworth, R. E., Krabbendam, M. & Strachan, R. A., 2010. Continental Tectonics and Mountain Building. The Legacy of Peach and Horne: an introduction. *In: Law, R., Butler, R. W. H., Holdsworth, R. E., Krabbendam, M. & Strachan, R. A. (eds). Continental Tectonics and Mountain Building: The Legacy of Peach and Horne.* Geological Society. London, Special Publication, 1-6.
- Krabbendam, M. & Leslie, A. G., 2010. Lateral variations and linkages in thrust geometry: the Traligill Transverse Zone, Assynt Culmination, Moine Thrust Belt, NW Scotland. *In: Law, R., Butler, R. W. H., Holdsworth, R. E., Krabbendam, M. & Strachan, R. A. (eds). Continental Tectonics and Mountain Building: The Legacy of Peach and Horne.* Geological Society. London, Special Publication, 333-356.
- Goodenough, K. M., Park, R. G., Krabbendam, M., Myers, J. S., Wheeler, J., Loughlin, S. C., Crowley, Q. G., L, F. C. R., Beach, A., Kinny, P. D. & Graham, R. H., 2010. The Laxford Front: an end-Archaean terrane boundary? *In: Law, R., Butler, R. W. H., Holdsworth, R. E., Krabbendam, M. & Strachan, R. A. (eds). Continental Tectonics and Mountain Building: The Legacy of Peach and Horne.* Geological Society, London, Special Publication, **335**, 101-118.
- Bradwell, T., 2010. Studies on the growth of *Rhizocarpon geographicum* in NW Scotland, and some implications for lichenometry. *Geografiska Annaler*, **92A**, 41-52.
- Bonsor, H. C., Strachan, R. A., Prave, A. & Krabbendam, M., 2010. Fluvial braidplain to shallow marine transition in the early Neoproterozoic Morar Group, Fannich Mountains, northern Scotland *Precambrian Research*, **183**, 791-804.
- Alsop, G. I., Cheer, D. C., Strachan, R. A., Krabbendam, M., Kinny, P. D., Holdsworth, R. E. & Leslie, A. G., 2010. Progressive fold and fabric evolution associated with regional strain gradients: a case study from across a Scandian ductile thrust nappe, Scottish Caledonides. *In: Law, R., Butler, R. W. H., Holdsworth, R. E., Krabbendam, M. & Strachan, R. A. (eds). Continental Tectonics and Mountain Building: The Legacy of Peach and Horne.* Geological Society. London, Special Publication, **335**, 253-272.
- Finlayson, A., Fabel, D., Bradwell, T. Sugden, D. 2014. Growth and decay of a marine terminating sector of the last British Irish Ice Sheet. *Quaternary Science Reviews*. **83**, 28-45. <http://dx.doi.org/10.1016/j.quascirev.2013.10.009>.
- Merritt, J.W., Akhurst, M.C., Wilkinson, I.P., Riding, J.B., Phillips, E.R., Smith, R.A., Finlayson, A., Dean, M.T. 2014. The Late Pleistocene Afton Lodge Clay Formation, Ayrshire, Scotland: evidence for Early to Middle Devensian climatic changes and Late Devensian onshore ice flow and rafting from the Firth of Clyde. *Proceedings of the Geologists' Association*, **125**, 195-214. <http://dx.doi.org/10.1016/j.pgeola.2013.12.004>
- Finlayson, A. 2013. Digital surface models are not always representative of former glacier beds: Palaeoglaciological and geomorphological implications. *Geomorphology*, **194**, 25-33. <http://dx.doi.org/10.1016/j.geomorph.2013.03.026>
- Finlayson, A. 2012. Ice dynamics and sediment movement: last glacial cycle, Clyde basin, Scotland. *Journal of Glaciology*, **58**, 487-500. <http://dx.doi.org/10.3189/2012JoG11J207>
- Finlayson, A., Gollledge, N., Bradwell, T., Fabel, D. 2011. Evolution of a Lateglacial mountain ice cap in northern Scotland. *Boreas*, **40**, 536-554. <http://dx.doi.org/10.1111/j.1502-3885.2010.00202.x>
- Finlayson, A., Merritt, J., Browne, M., Merritt, J.E., McMillan, A., Whitbread, K. 2010. Ice sheet advance, dynamics, and decay configurations: evidence from west central Scotland. *Quaternary Science Reviews*, **29**, 969-988. <http://dx.doi.org/10.1016/j.quascirev.2009.12.016>
- Barron, H F, Bonsor, H C, Bricker, S, Entwisle, D C, Lawrence, D J D, Lawrie, K I G, Dochartaigh, B É Ó, Campbell, S D G, Hall, Watson, S and Hall, I. (2013). Maximising



- past investment in subsurface data in urban areas for sustainable resource management: a pilot in Glasgow, UK, *Ground Engineering*, 46 (2). 25–28.
- Gordon, J G and Barron, H F. 2013. The role of geodiversity in delivering ecosystem services and benefits in Scotland. *Scottish Journal of Geology*, Vol. 49, Pt. 1, 41–58.
- Gordon, J G, Barron, H F and Miller, A D. 2012. New directions in geoconservation: Scotland's Geodiversity Charter. *European Geologist*. No. 34, 48–52.
- Gordon, J G, Barron, H F. 2012. Valuing Geodiversity and Geoconservation: Developing a More Strategic Ecosystem Approach. *Scottish Geographical Journal*. Vol. 128, Issue 3-4, 278–297.
- Gordon, J G, Barron, H F, Hansom, J D and Thomas, M F. 2012. Engaging with geodiversity – why it matters. *Proceedings of the Geologists' Association* Vol. 123,1–6.

### Geological Maps / digital surface datasets

- British Geological Survey, 2011. Loch Fannich, Scotland Sheet 92E, Bedrock. 1:50 000 Geology Series. British Geological Survey., Keyworth, Nottingham.
- British Geological Survey, 2012. Oykel Bridge Scotland Sheet 102W, Bedrock. 1:50 000 Geology Series. British Geological Survey., Keyworth, Nottingham.

### 3D Models

### Books and reports

- Goodenough, K. M. & Krabbendam, M., 2011. *A geological excursion guide to the North-West Highlands of Scotland*, Edinburgh Geological Society, Edinburgh.
- Law, R. D., Butler, R. W. H., Holdsworth, R. E., Krabbendam, M. & Strachan, R. A., 2010. *Continental Tectonics and Mountain Building. The Legacy of Peach and Horne*. Geological Society. London, Special Publication, **335**.
- Lukas, S. & Bradwell, T., 2010. *The Quaternary of Western Sutherland and adjacent areas: Field Guide*, Quaternary Research Association, London.