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## References

- Anderton, R. 1985. Sedimentation and tectonics in the Scottish Dalradian. *Scottish Journal of Geology*, 21, p. 407–436.
- Atherton, M.p. 1977. The metamorphism of the Dalradian rocks of Scotland. *Scottish Journal of Geology*, 13, p. 331–370.
- Bailey, E.B. 1910. Recumbent folds in the schists of the Scottish Highlands. *Quarterly Journal of the Geological Society of London*. 66. p. 586–620.
- Bailey, E.B. 1923. The metamorphism of the southwestern Highlands of Scotland. *Geological Magazine*, 60, p. 317–370.
- Bailey, E.B. and Maufe, H.B. 1916 (first edition); 1960 (second edition). *The geology of Ben Nevis and Glen Coe and the surrounding country: Explanation of Sheet 53. Memoirs of the Geological Survey of Scotland*. Published by the British Geological Survey (Edinburgh).
- Barrow, G. 1893. On an intrusion of muscovite-biotite gneiss in the southeastern Highlands of Scotland and its accompanying metamorphism. *Quarterly Journal of the Geological Society of London*, 49, p. 330–358.
- Bowes, D.R. and Wright, A.E. 1967. The explosion-breccia pipes near Kentallen, Scotland, and their geological setting. *Transactions of the Royal Society of Edinburgh*, 67, p. 109–141.
- Buntebarth, G. 1991. Thermal models of cooling. In: *Equilibrium and Kinetics in Contact Metamorphism: The Ballachulish Igneous Complex and its Aureole*. Edited by Voll, G., Topel, J., Pattison, D.R.M. and Seifert, F.; published by Springer Verlag. (Heidelberg): p. 379–404.
- Buntebarth, G. and Voll, G. 1991. Quartz grain coarsening by collective crystallization in contact quartzites. In: *Equilibrium and Kinetics in Contact Metamorphism: The Ballachulish Igneous Complex and its Aureole*. Edited by Voll, G., Topel, J., Pattison, D.R.M. and Seifert, F.; published by Springer Verlag (Heidelberg); p. 251–266.
- Clough, C.T. 1897. The Geology of Cowal. Memoir of the Geological Survey of Scotland; published by British Geological Survey.
- Clough, C.T., Maufe, H.B. and Bailey, E.B. 1909. The cauldron subsidence of Glen Coe and the associated igneous phenomena. *Quarterly Journal of the Geological Society of London*, 65, p. 611- 676.
- Dempster, T.J. 1985. Uplift patterns and orogenic evolution in the Scottish Dalradian. *Journal of the Geological Society of London*, 142, p. 111–128.
- Elles, G.L. and Tilley, C.E. 1930. Metamorphism in relation to structure in the Scottish Highlands. *Transactions Royal Society of Edinburgh*, 56. p. 621–646.
- Ferry, J.M. 1996a. Prograde and retrograde fluid flow during contact metamorphism of siliceous carbonate rocks from the Ballachulish aureole. Scotland. *Contributions to Mineralogy and Petrology*, 124, p. 235–254.
- Ferry, J.M. 1996b. Three novel isograds in metamorphosed siliceous dolomites from the Ballachulish aureole, Scotland. *American Mineralogist*, 81, p. 485–494.
- Fraser, G.L., Paulson, D.R.M. and Heaman, L.M. 2000. Geochronological and petrological investigations in the Ballachulish area, Scotland: local exhumation rates and implications for U-Pb geochronology of metamorphic processes. *GeoCanada 2000 (Geological Association of Canada – Mineralogical Association of Canada Joint Annual meeting). Abstracts with Program*.

- Harte, B. 1988. Lower Palaeozoic metamorphism in the Moine-Dalradian belt of the British Isles. In: *The Caledonian-Appalachian Orogen*. Edited by Harris, A.L. and Fettes, D.J.; published by Geological Society. London. Special Publication, 38. p. 1 23–134.
- Harte, B. and Voll, O. 1991. The setting of the Ballachulish intrusive igneous complex in the Scottish Highlands. In: *Equilibrium and Kinetics in Contact Metamorphism: The Ballachulish Igneous Complex and its Aureole*. Edited by Voll, G., Topel, J., Pattison, D.R.M. and Seifert, F.; published by Springer Verlag (Heidelberg); p. 3-17.
- Harte, B., Pattison, D.R.M. and Linklater, C.M. 1991a. Field relations and petrography of partially melted pelitic and semi-pelitic rocks. In: *Equilibrium and Kinetics in Contact Metamorphism: The Ballachulish Igneous Complex and its Aureole*. Edited by Voll, G., Pattison, D.R.M. and Seifert, F.; published by Springer Verlag (Heidelberg); p. 181–210.
- Harte, B., Pattison, Heuss-Aßbichler, S., Hoernes, S., Masch, L. and Weiss, S. 1991b. Evidence of fluid phase behaviour and controls in the intrusive complex and its aureole. In: *Equilibrium and Kinetics in Contact Metamorphism: The Ballachulish Igneous Complex and its Aureole*. Edited by Voll, G., Topel, J., Pattison, D.R.M. and Seifert, F.; published by Springer Verlag (Heidelberg); p. 405–422.
- Haslam, H.W. and Kimbell, O.S. 1981. Disseminated copper-molybdenum mineralisation near Ballachulish, Highland region. *Mineral reconnaissance programme report, Institute of Geological Sciences (U.K.)*, 43. p. 1-42.
- Heuss-Aßbichler, S. and Masch, L. 1991. Microtextures and reaction mechanisms of carbonate rocks: a comparison between the thermo-aureoles of Ballachulish and Monzoni (N. Italy) In: *Equilibrium and Kinetics in Contact Metamorphism: The Ballachulish Igneous Complex and its Aureole*. Edited by Voll, G., Topel, J., Pattison, D.R.M. and Seifert, F.; published by Springer Verlag (Heidelberg); p. 229–249.
- Hickman, A.H. 1975. The stratigraphy of late Precambrian metasediments between Glen Roy and Lismore. *Scottish Journal of Geology*, 14. p. 191–212).
- Hoernes, S., Macleod-Kinsell, S., Harmon, R.S., Paulson, D.R.M. and Strong, D.F. 1991. Stable isotope geochemistry on the intrusive Complex and its metamorphic aureole. In: *Equilibrium and Kinetics in Contact Metamorphism: The Ballachulish Igneous Complex and its Aureole*. Edited by Voll, G., Topel, J., Pattison, D.R.M. and Seifert, F.; published by Springer Verlag (Heidelberg); p. 351–378.
- Holdaway, M.J. 1971. Stability of andalusite and the aluminum silicate phase diagram. *American Journal of Science*, 271, p. 1 75–198.
- Holness, M. and Clemens, I.C. (1999) Partial melting of the Appin 'Quartzite' driven by H<sub>2</sub>O infiltration in the aureole of the Ballachulish Igneous Complex. *Contributions to Mineralogy and Petrology*, 136, p. 154–168.
- Johnson, M.R.W. and Frost, R.T.C. 1977. Fault and lineament patterns in the southern highlands of Scotland. *Geologie en Mijnbouw*, 56. p. 287–294.
- Kroll, Krause, C. and Voll, G. 1991. Disorder, re-ordering and unmixing in alkali feldspars from contact metamorphosed quartzites. In: *Equilibrium and Kinetics in Contact Metamorphism: The Ballachulish Igneous Complex and its Aureole*. Edited by Voll, G., Topel, J., Pattison, D.R.M. and Seifert, F.; published by Springer Verlag (Heidelberg); p. 267–296.
- Linklater, C.M., Harte, B. and Fallick, A.E. 1994. A stable isotope study of the migmatitic rocks in the Ballachulish contact aureole, Scotland. *Journal of Metamorphic Geology*, 12, p. 273–283.
- Litherland, M. 1980. The stratigraphy of the Dalradian rocks around Loch Creran, Argyll. *Scottish Journal of Geology*, 16. p. 105–123.
- Litherland, M. 1982. The structure of the Loch Creran Dalradian and a new model for the SW Highlands. *Scottish Journal of Geology*, 18, p. 205-225.

- MacCulloch, J. 1817. Observations on the mountain Cruachan in Argyllshire, with some remarks on the surrounding country. *Transactions of the Geological Society*, 4. p. 117–138.
- MacKnight, T. 1821. Mineralogical notes and observations. *Memoirs of the Wernerian Natural History Society*, 3, 104–122.
- Masch, L. and Heuss-Aßbichler, S. 1991. Decarbonation reactions in siliceous dolomites and impure limestone. In: *Equilibrium and Kinetics in Contact Metamorphism: The Ballachulish Igneous Complex and its Aureole*. Edited by Voll, G., Topel, J., Pattison, D.R.M. and Seifert, F.; published by Springer Verlag (Heidelberg); p. 211–228.
- Nockolds, S.R. and Mitchell, R.L. 1948. The geochemistry of some Caledonian plutonic rocks; a study in the relationship between the major and trace elements of igneous rocks and minerals. *Transactions Royal Society of Edinburgh*, 61 p. 533–575.
- Pattison, D.R.M. 1985. Petrogenesis of pelitic rocks in the Ballachulish thermal aureole. *University of Edinburgh Ph.D. thesis* (unpublished).
- Pattison, D.R.M. 1989. P-T conditions and the influence of graphite on pelitic phase relations in the Ballachulish aureole, Scotland. *Journal of Petrology*, 30. p. 1219–1244.
- Pattison, D.R.M. 1991. Pressure-temperature- $a(\text{H}_2\text{O})$  conditions in the thermal aureole. In: *Equilibrium and Kinetics in Contact Metamorphism: The Ballachulish Igneous Complex and its Aureole*. Edited by Voll, G., Topel, J., Pattison, D.R.M. and Seifert, F.; published by Springer Verlag (Heidelberg); p. 327–350.
- Pattison, D.R.M. 1992. Stability of andalusite and sillimanite and the  $\text{Al}_2\text{SiO}_5$  triple point: constraints from the Ballachulish aureole, Scotland. *Journal of Geology*, 100. p. 423–446.
- Pattison, D.R.M. and Harte, B. 1988. Evolution of structurally contrasting anatectic migmatites in the 3-kbar Ballachulish aureole, Scotland. *Journal of Metamorphic Geology*, 6. p. 475–494.
- Pattison, D.R.M. and Harte, B. 1991. Petrography and mineral chemistry of pelites. In: *Equilibrium and Kinetics in Contact Metamorphism: The Ballachulish Igneous Complex and its Aureole*. Edited by Voll, G., Topel, J., Pattison, D.R.M. and Seifert, F.; published by Springer Verlag (Heidelberg); 135–180.
- Pattison, D.R.M. and Voll, G. 1991. Regional geology of the Ballachulish area. In: *Equilibrium and Kinetics in Contact Metamorphism: The Ballachulish Igneous Complex and its Aureole*. Edited by Voll, G., Topel, J., Pattison, D.R.M. and Seifert, F.; published by Springer Verlag (Heidelberg); p. 19–38.
- Pattison, D.R.M. and Harte, B. 1997. The geology and evolution of the Ballachulish Igneous Complex and Aureole. *Scottish Journal of Geology*, 33, p. 1-29.
- Rabbet, W. and Meissner, R. 1991. The shape of the intrusion based on geophysical data. In: *Equilibrium and Kinetics in Contact Metamorphism: The Ballachulish Igneous Complex and its Aureole*. Edited by Voll, G., Topel, J., Pattison, D.R.M. and Seifert, F.; published by Springer Verlag (Heidelberg); p. 121–134.
- Richardson, S.W., Gilbert, M.C. and Bell, p. M. 1969. Experimental determination of kyanite-andalusite and andalusite-sillimanite equilibria: the aluminum silicate triple point. *American Journal of Science*, 267, p. 259–272.
- Roberts, J.L. 1976. The structure of the Dalradian rocks in the North Ballachulish district of Scotland. *Journal of the Geological Society of London*, 132, p. 139–154.
- Roberts, J.L. and Treagus, J.E. 1977. The Dalradian rocks of the Loch Leven area. *Scottish Journal of Geology*, 13, p. 165–184.

- Soper, N.J. 1988. Collision and strike-slip events in the British Caledonides. In: *The Caledonian-Appalachian Orogen*. Edited by Harris, A.L. and Fettes, D.J.; published by Geological Society, London, Special Publications, 38, p. 481–492.
- Soper, N.J. and Anderton, R. 1984. Did the Dalradian slides originate as extensional faults? *Nature*, 307, p. 357–360.
- Stephens, W.E. 1988. Granitoid plutonism in the Caledonian orogen of Europe. In: *The Caledonian-Appalachian Orogen*. Edited by Harris, A.L. and Fettes, D.J.: published by Geological Society, London, Special Publications, 38, p. 389–403.
- Stephenson, D, & Gould, D. 1995. British regional geology: the Grampian Highlands (4th edition): published by HMSO for the British Geological Survey (London).
- Stevenson, R.L. 1886. *Kidnapped*. Published by Cassell, London.
- Streckeisen, A. 1976. To each plutonic rock its proper name. *Earth Science Reviews*, 12, p. 1-33.
- Tanner, p. W.G. and Leslie, A.G. 1994. A pre-D2 age for the 590 Ma Ben Vuirich Granite in the Dalradian of Scotland. *Journal of the Geological Society*. 151. p. 209–212.
- Taylor, H.P and Forester, R.W. 1971. Low-<sup>18</sup>O igneous rocks from the intrusive complexes of Skye, Mull and Annamurchan, west of Scotland. *Journal of Petrology*, 12, p. 465–497.
- Thirwall, M.F. 1988. Geochronology of the late Caledonian magmatism in northern Britain. *Journal of Geological Society of London*. 145, p. 951–967.
- Troll, G. and Weiss, S. 1991. Structure, petrography and emplacement of plutonic rocks. In: *Equilibrium and Kinetics in Contact Metamorphism: The Ballachulish Igneous Complex and its Aureole*. Edited by Voll, G., Topel, J., Pattison, D.R.M. and Seifert, F.; published by Springer Verlag (Heidelberg); p. 39–66.
- Voll, G. 1964. Deckenhau and Fazies im Schottisches Dalradian. *Geologische Rundschau*, 53, p. 590–612.
- Voll, G., Topel, J., Pattison, D.R.M. and Seifert, F. *Equilibrium and Kinetics in Contact Metamorphism: The Ballachulish Igneous Complex and its Aureole*. Edited by published by Springer Verlag (Heidelberg);
- Weiss, S. 1986. *Petrogenese des Intrusivcomplexes von Ballachulish, Westschottland: Kristallisationsverlauf in einen zonierten Kaledonischen Pluton*. Unpublished Ph.D. thesis. Ludwig-Maximilians-Universität, Munchen.
- Weiss, S. and Troll, G. 1989. The Ballachulish Igneous Complex. Scotland: Petrography, mineral chemistry and order of crystallisation in the monzodiorite-quartz diorite suite and in the granite. *Journal of Petrology*, 30. p. 1069- III 6.
- Weiss, S. and Troll. G. 1991. Thermal conditions and crystallisation sequence in the Ballachulish Complex. In: *Equilibrium and Kinetics in Contact Metamorphism: The Ballachulish Igneous Complex and its Aureole*. Edited by Voll, G., Topel, J., Pattison, D.R.M. and Seifert, F.; published by Springer Verlag (Heidelberg); p. 67–98.
- Wiseman, J.D.H. 1934. The central and south-west Highland epidiorites: a study in progressive metamorphism. *Quarterly Journal of the Geological Society of London*. 90, p. 354–417.