

Fifth supplementary list of British minerals (Scottish)

A. LIVINGSTONE AND H. G. MACPHERSON

Department of Geology, Royal Scottish Museum, Chambers Street, Edinburgh EH1 1JF

THE number of mineral species known to occur in the British Isles increases yearly and details of their localities and assemblages are scattered throughout the literature. For ready-reference purposes Spencer produced lists of British minerals (1898, 1931, and 1958) to complement the species detailed by Greg and Lettsom (1858) in their *Manual of the Mineralogy of Great Britain and Ireland*. The listing tradition was continued by Embrey (1977 and 1978) and at the latter dates the total number of known British species was approximately 600. Some entries in the earlier lists require revision in view of later work (Deer *et al.*, 1962, 1963, and 1979; Fleischer 1980; and Hey, 1962 and 1963; and Hey and Embrey 1974).

The present authors undertook the task of revising entries in Heddle's (1901) *Mineralogy of Scotland* endeavouring to produce an up-to-date glossary of Scottish mineral species. This work 'Glossary of Scottish Mineral Species 1981' (Macpherson and Livingstone, 1982), entailed examination of many specimens in the Scottish Mineral Collection of the Royal Scottish Museum as well as specimens in other museum collections. Contact was made with other mineralogists in order to obtain specimens or unpublished data. In works of this nature the value of museum collections is paramount for without their existence certain entries could not be made. The Scottish Glossary contains 443 entries detailing mineral name, ideal formula, crystal system, assemblage, locality (pre-Regionalization County names are retained) and reference details, following the style of the Spencer and Embrey lists. In the Scottish Glossary we consider that 399 valid species occur in Scotland. Many of these species are substantiated by X-ray diffraction identification or electron probe micro-analysis data or both.

When comparing the Greg and Lettsom, Spencer and Embrey lists with the Scottish Glossary it became apparent that some 16% of Scottish minerals (sixty-four minerals) had not been previously listed or recorded for the British Isles; a

small number are omissions from earlier lists. It seems appropriate, therefore, to draw attention to these minerals by presenting a supplementary list cast in the same mould as the previous lists.

Since the publication of the 'Glossary of Scottish Mineral Species, 1981' (Macpherson and Livingstone, 1982) seven minerals have recently been discovered in Scotland and are additional to the Glossary. These minerals have not been previously recorded or listed, or both, for the British Isles and are as follows: safflorite, elyite, hydrohonessite, litharge, massicot, offretite, and tyrolite.

Within modern mineralogical reference works there are inconsistencies in accrediting species status to intermediate members of solid-solution series of common rock-forming minerals. An example of this is found in the orthopyroxene series where some intermediate members are classed as varieties unlike the minerals embraced in the oligoclase-bytownite range which are given full species status. Other examples are found in the olivine series and scapolite series. If a mineral commonly occurs within rocks, and possesses a well-established composition field, then we list that mineral as a species rather than a variety. Into this species category we would allot dipyre, mizzonite, eulite, ferroaugite, hortonolite, etc. and this does not seem unreasonable for andesine, omphacite, and pigeonite have been previously listed.

Amphibole names that appear in the Scottish Glossary, and have not been previously listed, have been omitted from this supplementary list. Many published British amphibole analyses now require recalculation according to the rules in the IMA Nomenclature of Amphiboles Report (Leake, 1978) in order to apply the correct name. Inevitably, this may lead to amphibole names that have not been previously published for the British Isles. We have not undertaken this task for the British Isles but have done so for Scotland.

By detailing the first, or earliest-found, reference for a mineral in the Scottish Glossary the authors were able to allocate reference dates to decades

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