

Formation of sapphirine symplectite relate to partial melting in the South Harris Complex, NW Scotaland

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The South Harris Complex consists of high grade metamorphic rocks, and is subdivided by three lithology, namely Leverburgh belt, South Harris Igneous Complex, and Langavat belt. In the Leverburgh belt, sapphirine symplectite occurs in the melanocratic lenses and/or layer in the pelitic gneiss. These lenses mainly consist of garnet and kyanite, and secondary minerals of cordierite, orthopyroxene, biotite and sapphirine. Field occurrences and their chemical compositions indicate that these melanocratic lense and/or layer are the restite which were formed by the partial melting.