## Geology and structure of the Kikkertavak Anorthosite, Labrador

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The Kikkertavak Anorthosite is a young member of the Mesoproterozoic Nain Plutonic Suite. Recent mapping of this body has revealed that it preserves features of its emplacement and crystallization history that have not been readily observed in older, more deformed anorthosite. Many phases are observed within the Kikkertavak Anorthosite, and the mineralogical and textural relationships within and between these phases preserve a physical record of the history of this pluton. The cumulate texture, mineralogy, and differences in texture between components of the Kikkertavak Anorthosite suggest that it is the product of more than one melt and has had a protracted history of crystallization and fractionation.

The Kikkertavak Anorthosite is cut by several smaller intrusions of monzonite and ferrodiorite, the distribution and characteristics of which may be significant in the history of the Nain Plutonic Suite. The relative similarities and differences between these rocks and the host anorthosite provide clues about their origin. The presence of shear zones, sinistral faulting, and mafic dyking are all features of a transpressional/ extensional regime, and are indicative of the mechanisms required for the emplacement of the voluminous magmas of the Nain Plutonic Suite.