

Metadata Details

Title

Quench Textures in Basaltic Dyke From Schirmacher Oasis, Queen Maud Land, East Antarctica.

Science Keywords

Category	Paleoclimate
Topic	Rocks/Minerals
Expedition Year	1997-1998
ISO Topic	Geodesy

Summary

Abstract

Occurrence of several morphologies of quench olivine textures in a basaltic dyke is reported from Antarctica for the first time. This basaltic dyke occurs in the Precambrian poly metamorphosed gneissic terrian of Schirmacher Oasis, Queen Maud Land, East Antarctica. The morphologies of quench olivines in this basaltic dyke suggest that they were formed by rapid cooling of the magma at 15-40? c/hour. Further, the delicate nature of the quench olivine, which are mostly confined to the glassy margins of the dyke suggest their in situ crystallisation.

Purpose

To study a basaltic dyke which is characterised by the occurrence of several morphologies of quench olivine textures, is being reported from Schirmacher Oasis, Queen Maud Land, East Antarctica.

Data Center