

Petrological and Geochemical Characteristics of Mafic Granulites Associated with Alkaline Rocks in the Pan-African Dahomeyide Suture Zone, Southeastern Ghana

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1. Introduction

Most alkaline complexes are characterized by the presence of a distinctive zone where alkaline emanations appear to affect the wall rocks and the contact zones with country rocks (Winter, 2001). Such alkaline solutions and magmas may be effective agents for transporting trace elements and modifying the compositions of the host rocks (Wallace & Green, 1988, Rudnick et al., 1993). As a result the primary minerals can be replaced by alkaline minerals such as nepheline and feldspar. In this way nepheline-bearing rocks and other metasomatic derivatives of variable compositions can arise (Dawson et al. 1990). In the Pan-African Dahomeyide suture zone in southeastern Ghana, variably deformed alkaline rocks, comprising nepheline syenite and carbonatitic rocks, referred to as the Kpong complex (KC), occur in tectonic contact with high-pressure (HP) mafic granulite rocks of garnet-pyroxene-amphibole composition (Nudé et al., 2009). The Dahomeyide mafic granulites have been found to preserve geochemical imprints of island arc tholeiitic (LAT) basalts as well as rocks with N-MORB-like affinities (Agbossoumonde et al., 2001, Attah & Morgan 2004). Thus the mafic granulites possess distinct geochemical signatures that differ significantly from the alkaline rocks.

This paper presents petrological and geochemical data on the nepheline-bearing mafic rocks previously referred to as mafic nepheline gneiss (Holm, 1974) at the contact zone between the HP mafic granulites and the KC rocks. The data are used to evaluate the distinctive mineralogical and trace element contents of the nepheline-bearing mafic rocks, and also infer the interactions of the alkaline magma with the mafic granulites at the contact zone.

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biological investigations are then reviewed and subsequent chapters address principles and advances in meteorology physical oceanography glaciology and the geological evidence that bears on the origin of Antarctica These physical sciences delineate a matrix for the polar biospheres and provide a background for understanding the major categories of structure and dynamic functioning of the marine ecosystem polar marine mammals adaptational physiology and terrestrial biotic adaptations

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perdre plus que son énergie cinétique hc eu hc eu $6.3 \cdot 10^{-11} \text{ m}^2$ on utilise la conservation de l'énergie et de l'impulsion en appelant p_i et p_f les impulsions des photons entrant et sortant et p_e