

# Stratigraphy of the Ovamboland basin, South West Africa

**University of Cape Town - An overview of the geology of the Transvaal Sequence and Bushveld Complex, South Africa**

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## Chapter 8 The West African Coastal Basins

Geocongress '90 Cape Town, South Africa Abstract nos. The fairly high feldspar content observed in the sandstones of the Clarens Formation as compared to the Molteno and Elliot Formations indicate dry climatic conditions which supported less chemical weathering and preserved less stable minerals. Clay minerals include smectite, kaolinite, sericite and illite.

## Petrography, modal composition and tectonic provenance of some selected sandstones from the Molteno, Elliot and Clarens Formations, Karoo Supergroup, in the Eastern Cape Province, South Africa

It would appear that the rifting was asymmetrical, as many of the syn-rift features that would normally be expected are not apparent at depth in this area, but they are abundant in the corresponding South American segment.

## The stratigraphy of the Lower Beaufort Group in an area north of Laingsburg, South Africa

Geological Society of America Bulletin, 1983, 94, 222-235. The partial melting and dehydration of the subducting slab produces molten buoyant magmas which rise and create a volcanic arc on the overriding plate.

## Chapter 8 The West African Coastal Basins

The sample Cd6b from the Clarens Formation is of much interest as a result of the high laumontite content about 24%. But they are relatively diverse in species and well preserved. Other examples include forearc basins lying in front of the magmatic arc, and intra-arc basins within the magmatic arc lying on the continental plate.

## Chapter 8 The West African Coastal Basins

The ridge, in South America correlated with the Rio Grande Rise, both related with the , also represents the boundary between volcanic and non-volcanic areas to the south and north respectively. This chapter discusses the different aspects of the west African coastal basins. The Council for Geoscience CGS is appreciated for supplying the magnetic data.

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