

REVIEWER'S REPORT

Manuscript No.: IJAR-58782

Title: PETROGRAPHY AND GEOCHEMISTRY OF GUIGLO GNEISSES, CÔTE D'IVOIRE.

Recommendation:

Accept as it is

Accept after minor revision.....

Accept after major revision

Do not accept (*Reasons below*)

Rating	Excel.	Good	Fair	Poor
Originality		✓		
Techn. Quality		✓		
Clarity		✓		
Significance		✓		

Reviewer Id : JPR-264

Reviewer's Comment for Publication.

The manuscript presents a useful study of the petrography, mineral chemistry, geochemistry, and structural characteristics of Guiglo gneisses in southwestern Côte d'Ivoire. The integration of field observations, petrographic analysis, electron microprobe data, and whole-rock geochemistry is a major strength. The comparison between the NZO-1 migmatitic gneiss and GUI-1 amphibole augen gneiss provides useful information on their magmatic, metamorphic, and tectonic evolution.

The manuscript is generally well organized and scientifically relevant. However, the following **minor revisions** are recommended:

1. **Clarify the geological setting**, particularly the relationship between the Man and SASCA domains, as some statements appear inconsistent.
2. **Check analytical methods for consistency**, especially the use of XRF versus ICP-AES for major-element analysis.
3. **Moderate tectonic and petrogenetic interpretations**, since only two samples were studied and no isotopic/geochronological data are presented.
4. **Clarify the basis for the estimated metamorphic P–T conditions** and indicate whether they are calculated or inferred from mineral assemblages.
5. **Check all geochemical classifications and citation numbers** for consistency with the reference list.
6. **Verify Tables 1–3 and Figure 6** for accuracy, labels, normalization procedures, and consistency with the text.
7. **Correct language, spacing, and formatting errors** throughout the manuscript.
8. The conclusion regarding **Paleoarchean crustal reworking** should be presented as an interpretation supported by regional evidence rather than as a directly demonstrated result.

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Overall Assessment

The manuscript has scientific merit and provides useful new information on the gneissic rocks of the Guiglo area and their significance for the evolution of the West African Craton. The identified problems are mainly related to **clarity, consistency, interpretation, and presentation** and can be addressed through minor revision.

Recommendation: Accept after minor revision.