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REVIEWER'S REPORT

Manuscript No.: IJAR-56440

Title: Studying and Analysis of the pollutant distribution trajectory from Ethiopian volcano using HYSPLIT Code

Recommendation:

- Accept as it is
- Accept after minor revision.....
- Accept after major revision**
- Do not accept (*Reasons below*)

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

Reviewer Name: Dr. Hari Prashad Joshi

Detailed Reviewer's Report

This manuscript presents an interesting application of the HYSPLIT model to simulate volcanic pollutant dispersion from the Ethiopian volcano, effectively linking the results to radiological emergency response frameworks. However, several significant issues necessitate a ****major revision**** before publication. The primary concern is the manuscript's structure and focus; extensive sections on Ethiopia's geography, climate, and population are irrelevant to the core scientific study and should be removed or drastically condensed. The methodology section adequately describes HYSPLIT but lacks crucial specifics on input meteorological data, simulation parameters, and the eruption source term (e.g., duration, mass eruption rate). The "Results and Discussion" is overly descriptive, merely narrating what each of the 16 figures shows without a critical, synthesized analysis of the underlying physical mechanisms or the implications for transboundary pollution. The conclusions are too general and do not derive specific insights from the trajectory patterns shown. Furthermore, the quality of the figures is poor (e.g., missing axis labels, legends), and the text contains numerous grammatical errors and typos. The authors must restructure the paper to focus sharply on the modeling results, provide complete methodological details, and replace figure descriptions with a robust scientific discussion to meet the journal's standards.