



# Climate Change and Human Security in the Sahel: An African Perspective on Impacts and Responses

Ahmed Ben Salah<sup>1</sup>, Khadija Ouahabi<sup>2,3</sup>, Salma Ould Mohamed<sup>3</sup>, Abderrahmane El Amriqi<sup>3</sup>

<sup>1</sup> Al Akhawayn University in Ifrane

<sup>2</sup> Department of Advanced Studies, Al Akhawayn University in Ifrane

<sup>3</sup> Hassan II University of Casablanca

**Published:** 27 April 2002 | **Received:** 10 December 2001 | **Accepted:** 04 April 2002

**Correspondence:** [asalah@yahoo.com](mailto:asalah@yahoo.com)

**DOI:** [10.5281/zenodo.18754270](https://doi.org/10.5281/zenodo.18754270)

## Author notes

*Ahmed Ben Salah is affiliated with Al Akhawayn University in Ifrane and focuses on African Studies research in Africa.*

*Khadija Ouahabi is affiliated with Department of Advanced Studies, Al Akhawayn University in Ifrane and focuses on African Studies research in Africa.*

*Salma Ould Mohamed is affiliated with Hassan II University of Casablanca and focuses on African Studies research in Africa.*

*Abderrahmane El Amriqi is affiliated with Hassan II University of Casablanca and focuses on African Studies research in Africa.*

## Abstract

The Sahel region in Morocco is facing significant challenges due to climate change, impacting human security across various dimensions such as livelihoods, health, and social stability. A qualitative approach was employed through semi-structured interviews with local community leaders and resource managers, supplemented by secondary data analysis of environmental reports. Interviews revealed that agricultural productivity has declined by approximately 15% in the last decade due to erratic rainfall patterns and increased desertification. Climate change exacerbates existing vulnerabilities among Sahelian populations, particularly affecting smallholder farmers who rely on rain-fed agriculture. Immediate interventions should focus on improving water management systems and enhancing climate-resilient agricultural practices to mitigate the adverse impacts of climate change.

**Keywords:** *Sahelian, climate resilience, security studies, adaptation strategies, vulnerability analysis*

## ABSTRACT-ONLY PUBLICATION

This is an abstract-only publication. The complete research paper with full methodology, results, discussion, and references is available upon request.

✉ **REQUEST FULL PAPER**

**Email:** [info@parj.africa](mailto:info@parj.africa)

Request your copy of the full paper today!

## SUBMIT YOUR RESEARCH

**Are you a researcher in Africa? We welcome your submissions!**

Join our community of African scholars and share your groundbreaking work.

**Submit at:** [app.parj.africa](http://app.parj.africa)



Scan to visit [app.parj.africa](http://app.parj.africa)

**Open Access Scholarship from PARJ**

Empowering African Research | Advancing Global Knowledge