

Peer Review

Review of: "Climate and Environmental Changes: Reflections and Prospects for the Future of the Mediterranean Area — Food Security and Climate Change: Agricultural Considerations"

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This review offers a broad and timely overview of the challenges facing Mediterranean agri-food systems under climate change, effectively integrating environmental, socio-economic, and policy dimensions while illustrating practical Climate-Smart Agriculture (CSA) applications through diverse case studies from Morocco, Egypt, Spain, and Italy; its strengths lie in its interdisciplinary scope, policy awareness, and emphasis on stakeholder collaboration and soil–water management as central pillars of resilience. However, the manuscript remains largely descriptive and would benefit from stronger analytical synthesis across case studies, clearer methodological framing (e.g., how cases were selected), and more recent quantitative data to substantiate key claims (such as emission percentages and water-use projections). The argument could be sharpened by reducing repetition in the introductory and policy sections, incorporating comparative tables summarizing outcomes (productivity gains, emission reductions, water savings), and critically discussing trade-offs, scalability limits, and socio-political barriers to CSA adoption. Additionally, clearer linkage between climate projections and specific agronomic adaptation pathways, along with integration of updated IPCC AR6 findings and region-specific modeling data, would strengthen scientific rigor. Enhancing structural coherence, adding a conceptual framework diagram, and concluding with prioritized, evidence-based recommendations for policymakers would significantly increase the manuscript's impact.

Declarations

Potential competing interests: No potential competing interests to declare.