



Université
de Lomé



Federal Ministry
of Education
and Research

PhD VIVA at Université de Lomé



Candidate:

Mr. Hassane BASSIROU

from Niger

Topic:

“Flood Disasters Risk Assessment and Climate Change Resilience in Niamey – Niger”

Brief Summary:

Climate change has intensified the impact of flooding in Niger, particularly in its capital city, Niamey, due to heightened rainfall, rapid population growth, and uncontrolled urbanization. A comprehensive study was conducted to assess flood risk zones and facilitate informed land use planning in the face of a changing climate. Utilizing a combination of fieldwork, archival research, and questionnaires, the study analyzed data through scientific methods, including frequency distribution tables, percentages, graphs, and charts. Spatiotemporal analysis of Landsat images from 1981 to 2021 revealed concerning urbanization sprawl. Satellite and GIS data, along with statistical tools, identified excessive rainfall, inadequate drainage, and water reservoir mismanagement as primary causes of floods.

The research highlighted the recurrent nature of flooding, causing significant socio-economic and environmental damage annually. While disaster response agencies are active, their interventions primarily focus on relief and rehabilitation rather than effective prevention. The study underscores the inadequacy of current measures and emphasizes the urgent need for stakeholders to prioritize preventive and mitigation strategies. To address the persistent threat of flood disasters, collaborative efforts must be intensified, aiming for sustainable solutions that protect both the population and the environment in Niamey and the surrounding areas.

Chair of the viva-voce: Prof. Tak Youssif GNONGBO, Université de Lomé, Togo

Supervisors:

- Prof. Masamaéya D. T. GNAZOU, University of Lomé, Togo
- Prof. Ibrah SEIDOU SANDA, AGRHYMET Niamey, Niger
- Prof. Ambe Emmanuel CHEO, United Nations University Bonn, Germany

Examiners:

- Prof. Kissao GNANDI, University of Lomé, Togo
- Prof. Hamidou DIAWARA, AGRHYMET, Niamey Niger

Date: Wednesday, January 31st, 2024 at 09:00 AM GMT

Venue: WASCAL-Université de Lomé and Zoom

Zoom link: <https://us06web.zoom.us/j/85969852095?pwd=uSrOV0zkJk4LV2haGObltv9920n5a6.1>

ID of the meeting: 859 6985 2095

Password: 809920