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OPTIMIZATION OF NIGERIAN SATELLITES IN FLOOD DISASTER PREPAREDNESS AND
RESPONSE

Abstract

Nigeria as a nation suffers the effects of Climate Change majorly through flood events. Recent flood disasters in Nigeria have been of major concern to people, communities and institutions. In a bid to mitigate the extent of damage and casualties during a flood disaster, this study aimed to promote the use of Nigeria satellites in the preparedness phase of flood disaster management cycle for more practicable and effective response and mitigation. The study also identifies the relevant agencies to collaborate with the National Space Research and Development Agency (NASRDA) in order to promote synergy towards attaining a stable disaster risk management in Nigeria; and provides a framework for improving and managing disaster preparedness and response using Nigerian satellites and through geospatial approach. The approach employed was a combination of satellite imagery, imagery intelligence and geospatial information with the help of Information Communication Technology to plan ahead for any flood event during the pre-disaster phase. The incorporation of geospatial techniques using the Nigerian earth observation and communication satellites in disaster preparedness and response will strengthen our contingency plan provided there is synergy, commitment and information sharing among relevant agencies.