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Remote Sensing Approaches and Tools for Water Management in the Volta Basin

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This research is proposed to develop remote sensing approaches and tools for the sustainable management of water resources in the Volta basin. In most semi-arid areas getting information on water and Food for decision and policy makers is vital for effective planning and sound resources management to alleviate poverty. In the Volta Basin however, getting observed data is difficult to come by. Remote sensing therefore provides a good avenue to acquire additional data to compliment data collected through traditional means.

This paper looks at one of the four objectives of the approaches and tools for the management of water resources in the Volta basin. Specifically, the Regional Water Storage in the basin using ASTER, SPOT, LANDSAT and POLDER optical imagery and Envisat ASAR and ALOS Radar imagery.

Key words: Water Management, Remote Sensing, Volta basin, Semi-arid