## Quantifying the Impacts of Climate Variability and Land Use Changes on the Hydrological Response of the Niger Delta

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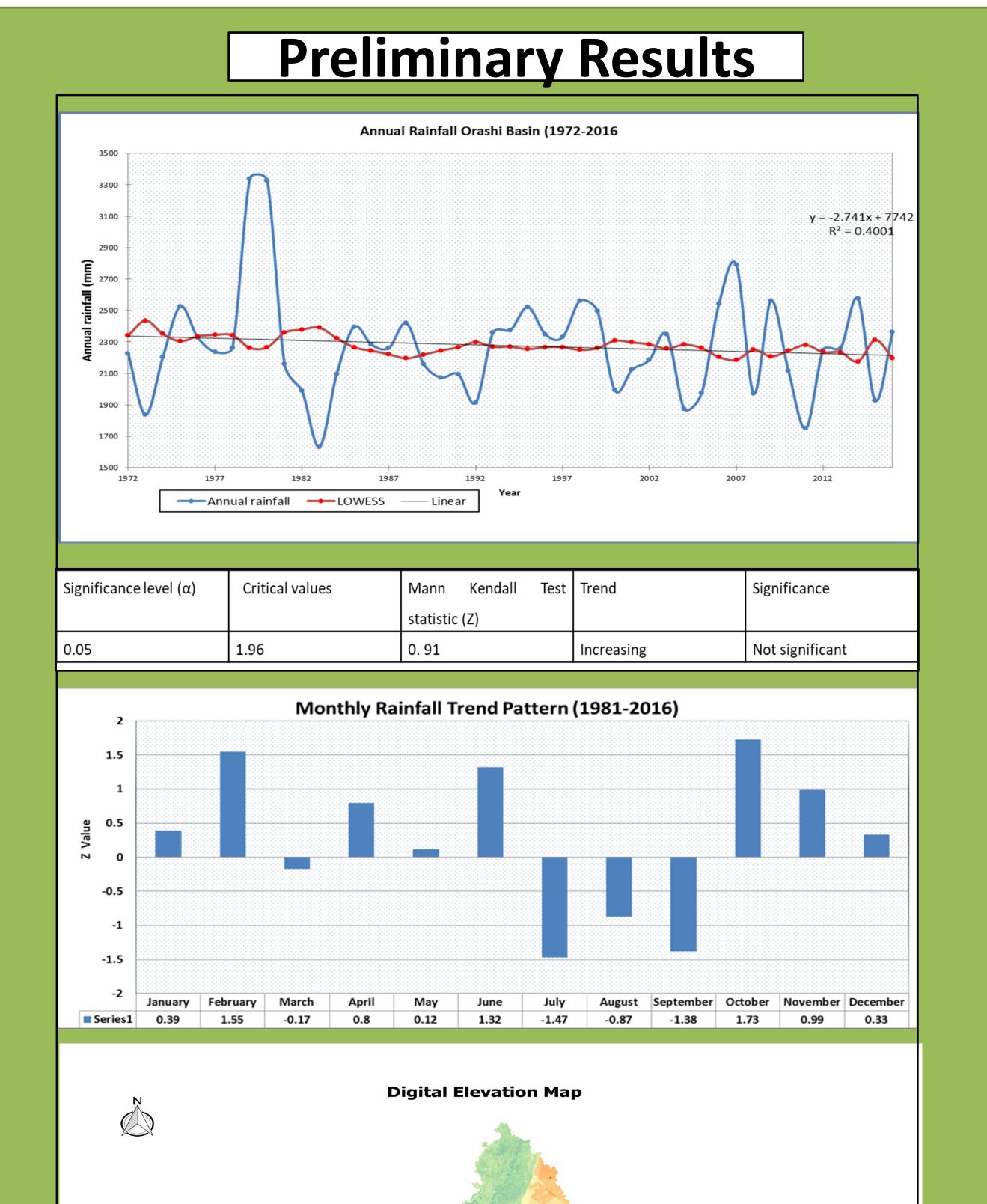
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## Background

- Increased flood frequency and Magnitude in the Niger Delta
- Debate on the causative factor of flooding



- Nerve
   Nerve

   Vervaga
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   Vervaga
   Enorva

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   Enorva
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- Location: 4° 44 N and 6° 45 E
- Annual rainfall: 1500-2500 mm
- Climate: Equatorial
- Basin area and size: 1,393 km<sup>2</sup>
- Population: 600,000 (2010)

## Objectives

- Detection and assessment of rainfall trend
  Land use Change detection
- Hydrological Analysis

