



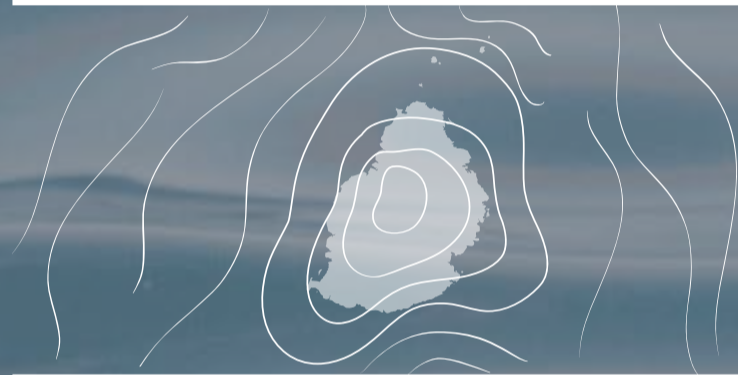


CASE STUDY - WATER




MAURITIUS

CONTEXT

-  Observations suggest that rainfall patterns have changed over the last decades.
-  Extreme rainfall events and intra-seasonal variability pose challenges for water resource management.
-  The water sector relies on 6-month seasonal outlooks and statistical models issued by the Mauritius Meteorological Service (MMS).
-  This study aims to improve spatiotemporal resolutions to manage water for domestic, industrial and agricultural use.



TOOLS & APPROACH

-  Collate historical data for rainfall and streamflow
-  Apply downscaling techniques
-  Assess model skill for different lead-time

EXPECTED RESULTS

- 1 Generation of current and expected rainfall, drought and related likelihoods.
- 2 Developed thresholds for triggering drought or wet conditions alerts as a decision support tool.



CLIMATE SERVICES

BASELINE

Biannual seasonal forecast derived from consensus forecast (SARCOF; SWIOCOF) and a quarterly seasonal forecast with a simple downscaling analogue model.

INNOVATION

High-resolution statistical downscaled rainfall forecast.

High-resolution seasonal forecast verified and optimized for different watersheds.

Drought forecasting and monitoring early-warning system.

THE TEAM



RESEARCH PROVIDER	SERVICE PROVIDER	END USER
 CSIR Teaching lives through innovation		WATER SECTOR



FOCUS-AFRICA

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