Case Study

TECHNOLOG
AMETEK

Rainfall Monitoring



Sapat Kalisun, North Eastern Borneo

- ✓ Flood prevention
- ✓ Water Resource Management
- ✓ Reduced operating costs
- ✓ Benefits local community
- ✓ Easy to implement





Project Overview

Technolog was commissioned to supply remote rainfall detection systems to monitor the intensity and duration of tropical rain events to understand the rate and timing of wet canopy evaporation, the suppression of transpiration and river responsiveness.

The study analysed rainfall data for a 5 km2 region largely comprising of the 4km2 Sapat Kalisun Experimental Catchment in the interior of North Eastern Borneo. The work clearly showed that most rainfall within this inland, forested area has a relatively low intensity and appeared localised.

A higher sampling frequency was used to determine the distributed rainfall-runoff modelling of such small catchments.

Observed rain-event intensity is much less than the measured infiltration capacities, and thus supports the tenet of the dominance of quick subsurface responses in controlling river behaviour in this small equatorial catchment.

Key Elements

- Rainfall measurement to determine effects of ground saturation & impact on flood defences
- Transmission of data upon an alarm
- Predicting the diurnal signature of rainfall over a varied terrain
- Identifying the impact of run off into river systems
- Battery operated for 5 years

Key Outcomes

- Harvesting water for irrigation
- Implement schemes to harvest rainfall for drinking water
- Flood prevention by identifying high risk areas

Technolog Limited,
Ravenstor Road, Wirksworth,
DE4 4FY, United Kingdom

+44(0)1629 823611
technolog@technolog.com
www.technolog.com

Copyright Technolog 2016
All rights reserved. Specifications subject to change without prior notice.
CS91008 & DMR 7001