

Integrated Water Resources Management (IWRM) Projects and Initiatives in the Caribbean

Title: Real-Time Flood Forecasting Project

Organisation: Caribbean Institute for Meteorology and Hydrology,

Aims and Objectives:

This project proposes to develop a robust, reproducible, and transparent approach to flood forecasting that couples a physically based hydrological model capable of capturing changes in watershed characteristics to a numerical weather prediction model. The approach overcomes many of the deficiencies encountered in more traditional approaches to flood forecasting in small watershed where there is a short time lag between precipitation events and the onset of flood.

- This project being proposed couples the physically based numerical hydrological model HydroGeoSphere (developed at the University of Waterloo) which is capable of capturing changes in some watershed characteristics to the numerical weather prediction model Weather Research and Forecasting (WRF) model.

Duration: Information not available

Estimated Cost (USD): Information not available

Funding Source: CARICOM/Japan Friendship Fund

Contact Information:

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Global Water Partnership-Caribbean IWRM Projects and Initiatives Database

Key Words: Flood, Forecasting, Real time, Modelling, Weather

Geographic Coverage: Barbados, Guyana, Jamaica

Sectoral Focus: Disaster risk management

Target Beneficiaries: Disaster risk management agencies, communities at risk from flooding, national weather services

Outputs:

Real time flood forecasting tool for decision-makers in the Caribbean involved in flood management and disaster preparedness in support of flood early warning

Project Links and References:

<http://www.cimh.edu.bb/?p=projects>

<http://63.175.159.26/~rffp>

http://www.caribbeanclimate.bz/index.php?Itemid=79&option=com_wrapper&view=wrapper

Impacts:

Information not available

Sustainability:

Information not available

Lessons for the Future:

Information not available

Opportunities Arising from the Project:

Information not available

Further Comments:

Information not available