

CARIBBEAN UPDATES

Some of the Caribbean Modelling Work

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LATEST UPDATES: CORDEX RUNS

- The details of the CORDEX experiments completed and or ongoing are listed below.

Model : REGCM

Driving GCM : HADGEM2-ESM

Scenarios : RCP4.5, RCP8.5, RCP2.6 (2019 – 2100) , HISTORICAL (1959 – 2004)

Driving GCM : MPI-ESM-MR

Scenarios : HISTORICAL, RCP4.5

OTHER EXPERIMENTS

ERA40, NNRP1, NNRP2, EIN15, EIN75

LATEST UPDATES: PUBLICATIONS

- Some recent publications based on PRECIS Perturbed Physics Experiments and CMIP5 Experiments under A1B and focusing on the implications of a 1.5 degree C warming for the Caribbean:
- C. Lallo, J. Cohen, D. Rankine, M. Taylor, J. Campbell and T. Stephenson. Characterizing heat stress on livestock using the temperature humidity index (THI) – Prospects for a warmer Caribbean. Accepted. Regional Environmental Change.
- P. Donk, E. Van Uytven, P. Willems and Michael A. Taylor, Assessment of the potential implications of a 1.5 °C versus higher global temperature rise for the Afobaka hydropower scheme in Suriname. Accepted. Regional Environmental Change.
- M. A. Taylor, L. Clarke, A. Centella, A. Bezanilla, **T. S. Stephenson**, J. J. Jones, J. D. Campbell, A. Vichot, J. Charlery, Future Caribbean Climates in a World of Rising Temperatures: The 1.5 vs 2.0 Dilemma. Accepted. Journal of Climate.

LATEST UPDATES: PRESENTATIONS

- Climate change and its impacts in the Latin America and Caribbean region: Poster session convened at the European Geophysical Union General Assembly held April 8-13, 2018
- Convenors: Raymond Arritt; Co-conveners: Maria Laura Bettolli, Ruth Cerezo-Mota; Tannecia Stephenson

LATEST UPDATES: PRESENTATIONS

Some presentations made at the European Geophysical Union (EGU) in Austria April 8-13, 2018.

- *Candice Charlton*, Tannecia Stephenson, and Michael Taylor, 2018. Investigating wildfire risk for a small island and the potential use of remotely sensed data: A Jamaica case study. Geophysical Research Abstracts, 20, EGU2018-16713-1, 2018; EGU General Assembly 2018.
- *Dale Rankine*, Jane Cohen, Cicero Lallo, Michael Taylor, Jayaka Campbell, and Tannecia Stephenson, 2018. Caribbean Food Security-The Future of Livestock in a Warmer Climate. Geophysical Research Abstracts, 20, EGU2018-1292, 2018; EGU General Assembly 2018.
- *Kimberly Stephenson*, Michael Taylor, and Byron Wilson, 2018. Modelling the Impact of Climate Change on a Caribbean Dry Forest Fauna. Geophysical Research Abstracts, 20, EGU2018-1276, 2018; EGU General Assembly 2018.
- *Irene Lake*, Filippo Giorgi, William Gutowski, Daniela Jacob, Christopher Lennard, Tannecia Stephenson, Fredolin Tangang, Anne Frigon, Sanajay Jayanarayayan, Hyun-Suk Kang, Silvina Solman, Bertrand Timbal, and Grigory Nikulin, CORDEX General Status. Geophysical Research Abstracts, 20, EGU2018-18915, 2018, EGU General Assembly 2018

FUTURE PLANS:

- Cyclone Risk in Small Island States (CRISIS) Workshop, July 23-24, 2018. Partners: University of Bristol and University of the West Indies
- Caribbean Climate Modellers' Meeting, July 25, 2018. Main Partners: University of the West Indies, INSMET – Cuba, Caribbean Community Climate Change Centre – Belize, Pilot Programme for Climate Resilience (PPCR) – IDB.