The BIG Climate Data Challenge for small islands | Insights from the Caribbean



Michael A. Taylor Climate Studies Group University of the West Indies Mona, Jamaica Dire Need for Data Features give rise to extreme vulnerability to climate variability & change and strong link between climate, development & quality of life.

> Data & Information Needs

Dire Need for 'Best Possible' Data There is little wiggle room with respect to 'quality' & 'robustness' of data as 'can't afford to get it wrong'



Representativeness Dependence on large scale data

Robustness Lack of multiple lines of evidence

Relevance Capturing the SIDS issues

Data & Information Challenge

Reliability Lack of data to validate &/or inclusive of SIDS dynamics

Availability Where to find, how to get & interpretation

Responsiveness Ability to get new data quickly or continuously update Start of the 2000's Caribbean was at a climate crossroads...

Climate Information Deficit

Little knowledge about historical or future climate at the small island scale

Limited understanding of the drivers of Caribbean climate Variability

Inadequate data and a lack of appreciation for data

Limited quantification of climate impacts on Caribbean sectors

Little knowledge of how climate information could be used to reduce vulnerability

Little evidence of climate policy premised on Caribbean climate science

Little in published literature about Caribbean and climate

Coordinated Science Partnership

Multi-year, multi-country, multi-institutional, regional approach to climate

- SCIE UWI (Jamaica, ative Barbados, Trinidad, other territories) ollabor
 - **INSMET** (Cuba)
 - AdeKUS (Suriname)
 - **CIMH** (Barbados)



20 years later...



The Problem

The Partnership

The Product

Context & Scale

Applicability & Usefulness

Lessons Learnt from building capacity to drive climate science for SIDS from within

Accessibility & Trust

Capacity & Continuity

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Multi-year, multi-country, multi-institutional, regional approach to climate

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