



Climate System Dynamics: New Knowledge and Its Implications for Decision Making

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Country-level experience of
incorporating scientific information for
decision making

CLIMATE ACTION ENHANCEMENT PACKAGE JAMAICA (CAEP)

NDCP CAEP Activity Code	Simplified Description	General Description	Partner
392	Assess existing policies in key vulnerable sectors	2050 Pathway Strategy	World Bank
393	Identify some priority options based on the assessment		
394	Preparing the long-term strategy		
395	Training stakeholders on tools emanating from the strategy		
396	Climate research agenda (continually examining new ideas and thoughts in climate change as we implement the strategy – CC research should be commonplace)	Research Agenda	UNEP, CTCN, CATIE
397	Looking at how the CCD is best poised to implement the strategy	Institutional arrangement (Collab with World Bank)	GHGMI
398	What will it cost to implement the strategy	Implementation Costing (Collab. with World Bank)	RMI
399	Costing the priority options in key vulnerable sectors		
400	List of available financial resources to support the strategy		
401	Emission markets to support strategy goals/targets	Carbon markets	GHGMI
402	Implication of CC on country as a SIDS with focus on climate expenditure analyses and modelling; assessment and climate expenditure analysis and modelling to support the case for introduction of climate change budgeting.	climate expenditure modelling and analyses	CommSec



RESEARCH AND TECHNOLOGICAL DEVELOPMENT (R&TD) AGENDA

The Agenda will be used to:

- × Consolidate, streamline and expand on scientific research previously conducted
- × It will highlight knowledge gaps
- × Encourage new knowledge and innovations

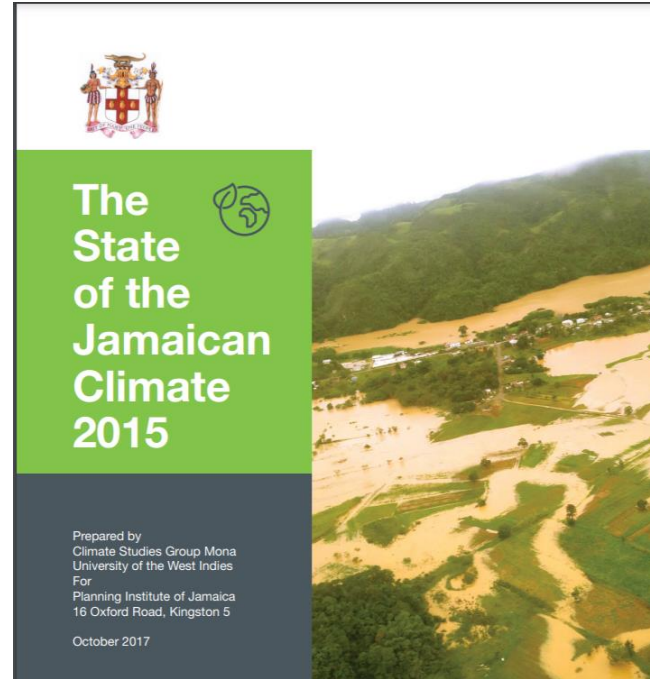


RESEARCH AND TECHNICAL DEVELOPMENT (R&TD) AGENDA (CONT'D)

- X The R&TD Agenda will help to improve decision making by:
 - X Recognizing vulnerabilities
 - X Enabling an environment of inclusivity when it comes to decision making
 - X Linking research to policy development and implementation
 - X Bridging the gap between research and finance

THE STATE OF THE JAMAICAN CLIMATE REPORTS

- X Jamaica has published The State of the Jamaican Climate (SOJC) Report in 2012, 2015 (2019 to be finalized).
- X Provides downscaled historic and projected climate information.
- X Have been used to inform resilience building efforts at the national and sub-nation level
- X Allow for improved sector-based assessments for climate resilience planning and decision-making

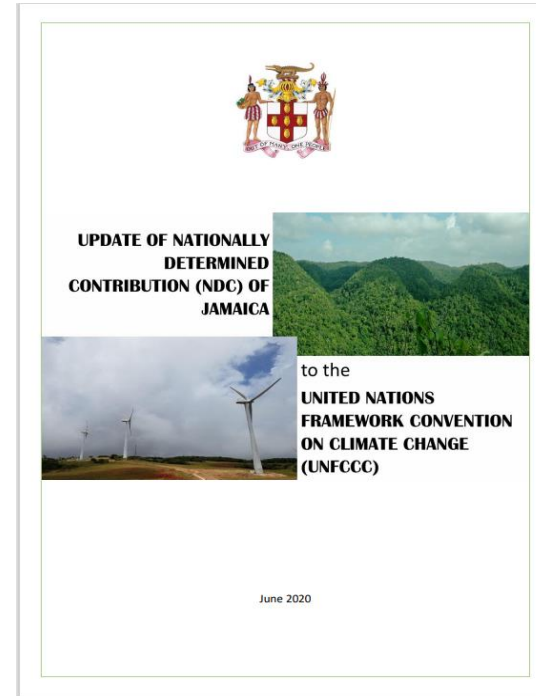


THE STATE OF THE JAMAICAN CLIMATE REPORTS (CONT'D)

- X The data/information in the SOJC Reports has been and continue to be used to, inter alia:
 - X Design national and local level projects
 - X Inform Jamaica's First National Adaptation Plan (NAP) (to be developed starting 2021)
 - X Integrate in Long-term low greenhouse gas emission and climate resilience development (2050 Pathway – now being finalized)
 - X Inform the revision of Jamaica's Climate Change Policy Framework (being updated)

AMBITION RAISED IN NATIONALLY DETERMINED CONTRIBUTION (NDC)

- X Research, innovation and data analysis were used to:
 - X Identify opportunities to deepen energy sector emission reductions
 - X Allow for the emissions reduced due to the forestry sector to be included



EARLY WARNING SYSTEMS

- X New knowledge is being built to, inter alia, expand Early Warning Systems (EWS):
 - X Potential for addressing loss and damage
 - X It has allowed for the outfitting of gov't entities with real-time automatic weather stations, as well as streamflow and rainfall gauges
 - X Upgrading of Jamaica's Doppler Radar to increase data and analysis for decision-making (*ongoing and to be completed in the coming weeks*).



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**Future Direction for Science and
Scientific Capacity Building**

DATA/KNOWLEDGE GAPS CHALLENGES AND SOLUTIONS

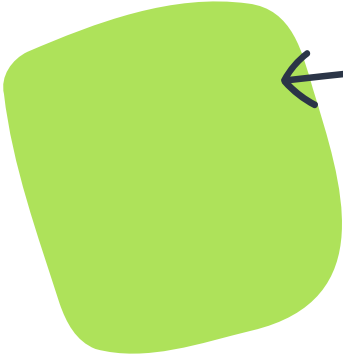
CHALLENGES

- More technical and human capacity needed
- More detailed and disaggregated data required
- Connection between the translation of research into policies and development plans still needs to be improved
- Connection between climate research and climate finance still needs to be improved
- Limited availability of “easy to use” analytical tools

SOLUTIONS

- Institutional capacity building: personnel, systems, training, tools and equipment
- Awareness-raising: national campaigns, communications strategy and action plans
- Availability of timely, reliable and accurate data
- Integration of policy and planning reviews
- Coordinate funding around climate priorities, research and innovation





THANK YOU!