

Climate change in the Caribbean – strengthening the science to services interface

Chris Hewitt

Head of International Climate Services, Met Office, UK

Professor of Climate Science, University of Southern Queensland, Australia



Workshop Sponsors and collaborators

- This workshop is part of the Met Office Commonwealth Heads of Government Meeting (CHOGM) Climate Service Demonstrator project
- WMO Climate Risk and Early Warning Systems (CREWS) funded workshop
- We are here due to the considerable organisation and collaboration from CIMH
- Collaborations from all of the below, and all of you, have made this possible

Thank you



National Oceanography Centre
NATURAL ENVIRONMENT RESEARCH COUNCIL

CHOGM – Climate Service Demonstrator Project Background

Background

- Draw on and improve existing capability to develop climate services with and for Commonwealth nations
- Support climate knowledge, adaptation, resilience and economic prosperity.
- Work collaboratively to create links between Commonwealth countries in co-producing climate services.
- Launched by the UK Universities Minister, April 2018-2020



Focus

Small Island States are some of the most at risk to climate change.

Focusing on:

1. Caribbean
2. Pacific



Requirements

- Gathered at CariCOF Nov. 2018
- And UWI Frontiers of Science Royal Society event on Climate change in Caribbean Mar'19
- And this workshop!
- Focus on long-term climate change
- National and regional information, communication and coordination
- Better understand climate impacts
- Sea level rise as one priority (there are others) - provide a SLR tool for the Caribbean region to complement Commonwealth Marine Economies programme [CME](#)



Workshop Aims & Objectives

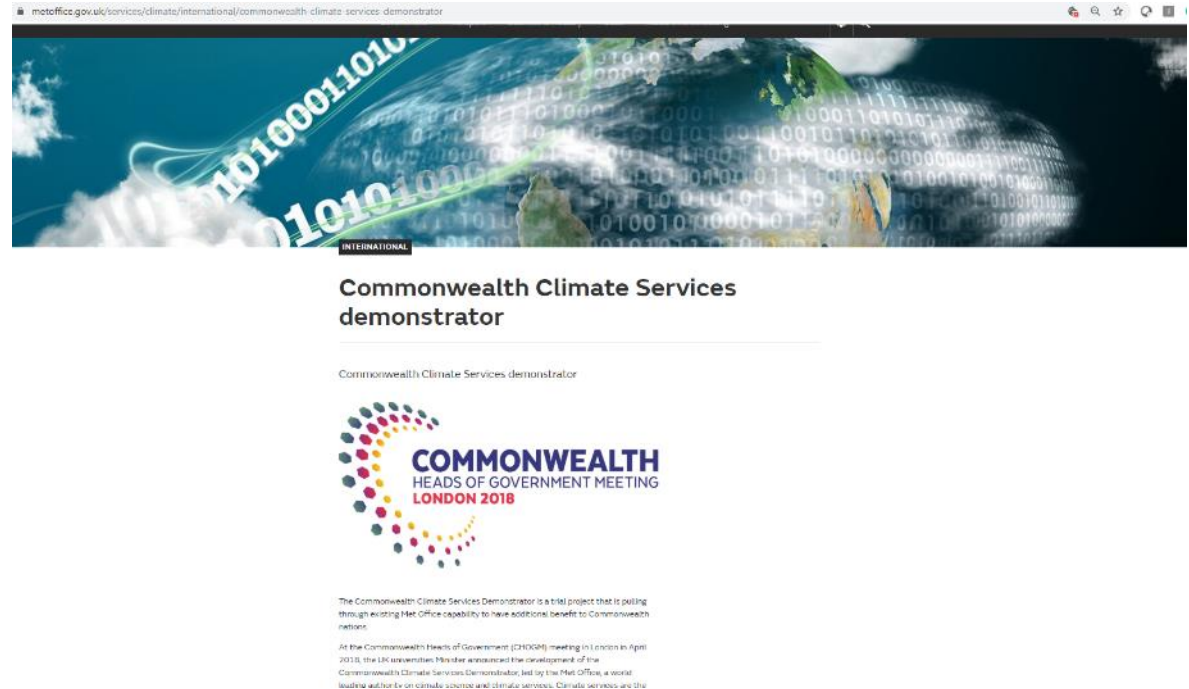
Anticipated Outcomes

1. Identify hazards to focus on in IPCC Atlas for Caribbean and encourage contributions/reviewers from Caribbean scientists to AR6.
2. Explore under Global Framework for Climate Services effectiveness of having a *Regional Climate Forum*.
3. Explore opportunities and gather requirements to continue this climate service work in the Caribbean after the project ends
4. Establish requirements of a sea level rise tool for the Caribbean

Disseminating Materials

- Disseminate key outputs from the project for the Caribbean region.
- Includes preliminary findings from sea level rise projections and communication examples and academic research.
- All materials will be uploaded to:

<https://www.metoffice.gov.uk/services/climate/international/commonwealth-climate-services-demonstrator>



The screenshot shows a web browser window with the URL `metoffice.gov.uk/services/climate/international/commonwealth-climate-services-demonstrator`. The page features a header image with a globe and binary code. Below the header, the text reads "Commonwealth Climate Services demonstrator". A sub-header "Commonwealth Climate Services demonstrator" is followed by the logo for the "COMMONWEALTH HEADS OF GOVERNMENT MEETING LONDON 2018". The main content area contains a paragraph: "The Commonwealth Climate Services Demonstrator is a trial project that is pulling through existing Met Office capability to have additional benefits to Commonwealth nations." Below this is another paragraph: "At the Commonwealth Heads of Government (CHOGM) meeting in London in April 2018, the UK Government Minister announced the development of the Commonwealth Climate Services Demonstrator, led by the Met Office, a world leading authority on climate science and climate services. Climate services are the..."

Workshop Timetable

Day 1 – Morning Plenary

Timing	Activity	Lead
9.00 - 9.30	Welcome, introduction & overview ?	British High Commission Port of Spain Prof Chris Hewitt, Met Office Dr David Farrell, CIMH
9.30 – 10.30	Climate change Science Overview talks	Dr Richard Jones, Met Office Prof Michael Taylor, UWI
10.30 - 11.00	Break	
11.00 -12.00	Climate change Science Overview talks - Caribbean impacts	Dr Ulric Trotz, Caribbean Community Climate Change Centre Dr Deborah Villarroel-Lamb, UWI
12.00 – 12.30	Climate Science to Services	Prof Chris Hewitt, Met Office Adrian Trotman, CIMH
12.30 – 13.30	Lunch	

Day 1- Afternoon Discussions

Timing	Activity	Lead
12.30 – 13.30	Lunch	
13.30 – 15.00	Discussion: Communicating Climate Risk Plenary, then smaller discussion groups	Chair: Dr Jane Strachan, Met Office
15.00 – 15.30	Break	
15.30- 17.00	Break out group One: Co-development of Caribbean Sea Level Rise Tool Break out group Two: Future Climate change impacts	Chair: Dr Mike Sanderson, Met Office Chair: Dr Richard Jones, Met Office
19.00	Reception	

Day 2

Timing	Activity	Lead
9.00-9.20	Recap of Day 1	Dr Jane Strachan, Met Office
9.20- 10.50	Break out group Two: Co-development of Caribbean Sea Level Rise Tool Break out group One: Future Climate change impacts	Chair: Dr Mike Sanderson, Met Office Chair: Dr Richard Jones, Met Office
10.50 - 11.10	Break	
11.10-11.30	Feedback from Break out groups 2 and 3	Chair: Dr Richard Jones, Met Office
11.30 -12.30	Plenary Discussion - Expert panel question time – bringing together climate change science into services for Caribbean decision-making	Plenary Speakers Chair: Dr Jane Strachan, Met Office
12.30 – 12.45	Next steps, outputs and close	Chair: Dr Chris Hewitt, Met Office
12.45 – 14.00	Lunch & Close	

Session intentions

- To be as interactive and collaborative as possible.
- To encourage engagement with climate change science in the region
- All questions are welcome, however if there isn't time in the session they can be addressed in the panel questions on day 2, or can be discussed with individuals.
- To demonstrate examples of science and ongoing work, as opposed to presenting definitive outcomes or best practices.
- Sticking to time! There will be a session chair, they will try to keep us on track.
- To be as collaborative and engaging as possible, all ideas are welcome.

For Further project information:

Rebecca.Osborne@metoffice.gov.uk

Or

<https://www.metoffice.gov.uk/services/climate/international/commonwealth-climate-services-demonstrator>