



Caribbean Community Climate Change Centre

Empowering People to Act on Climate Change

www.caribbeanclimate.bz

Climate Change and Water Resources Management in the Caribbean



A presentation to the webinar on
Water Resources Management around the World

Keith Nichols

Caribbean Community (CARICOM) - Political grouping of 16 States





Caribbean Community Climate Change Centre

Empowering People to Act on Climate Change

The Caribbean Community Climate Change Centre coordinates the Caribbean region's response to climate change, working on effective solutions and projects to combat the environmental impacts of climate change and global warming.

Commissioned by CARICOM HEADs in 2002

Operational in 2005

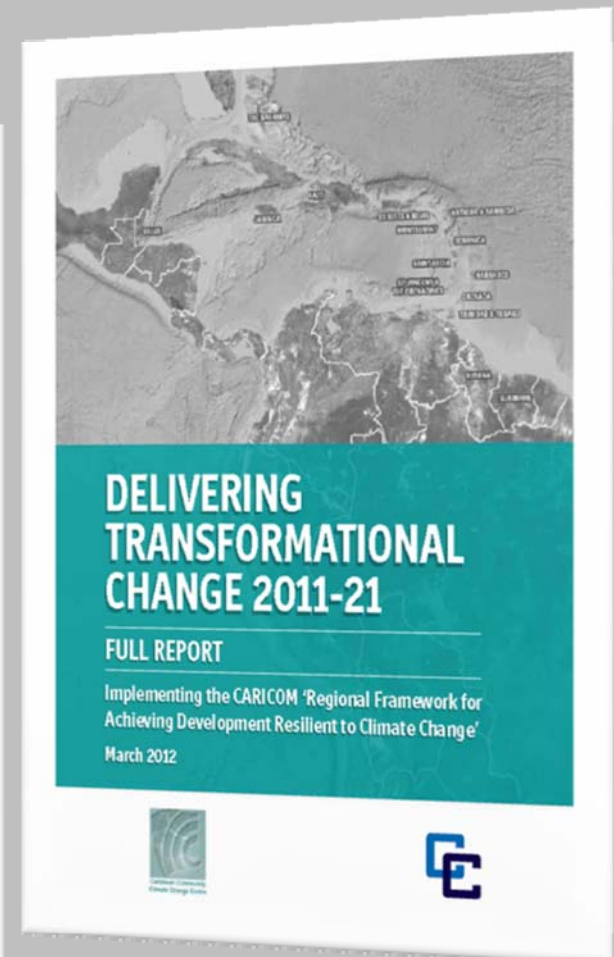
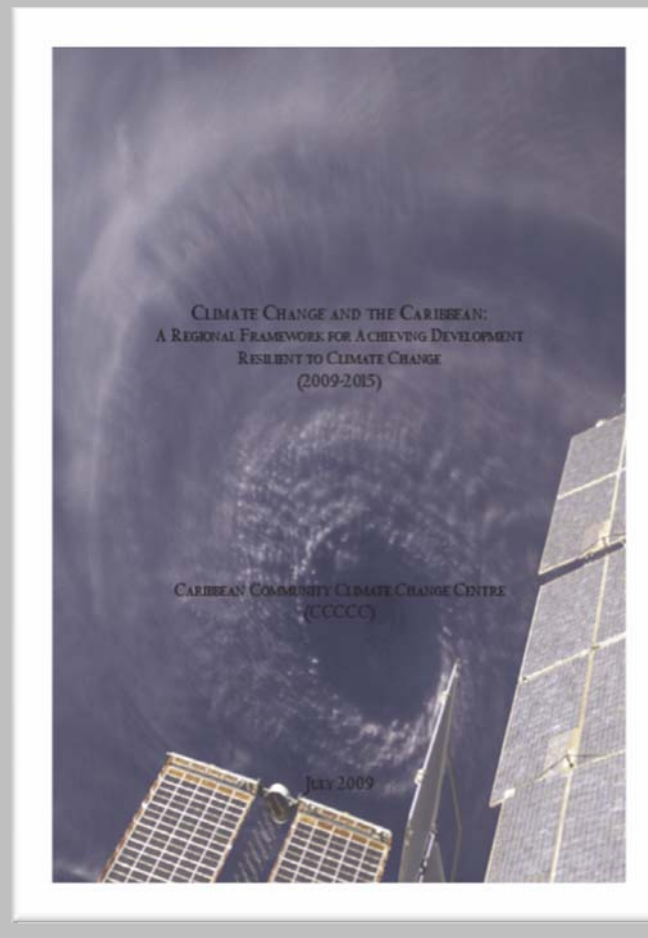
Today has a staff of 40

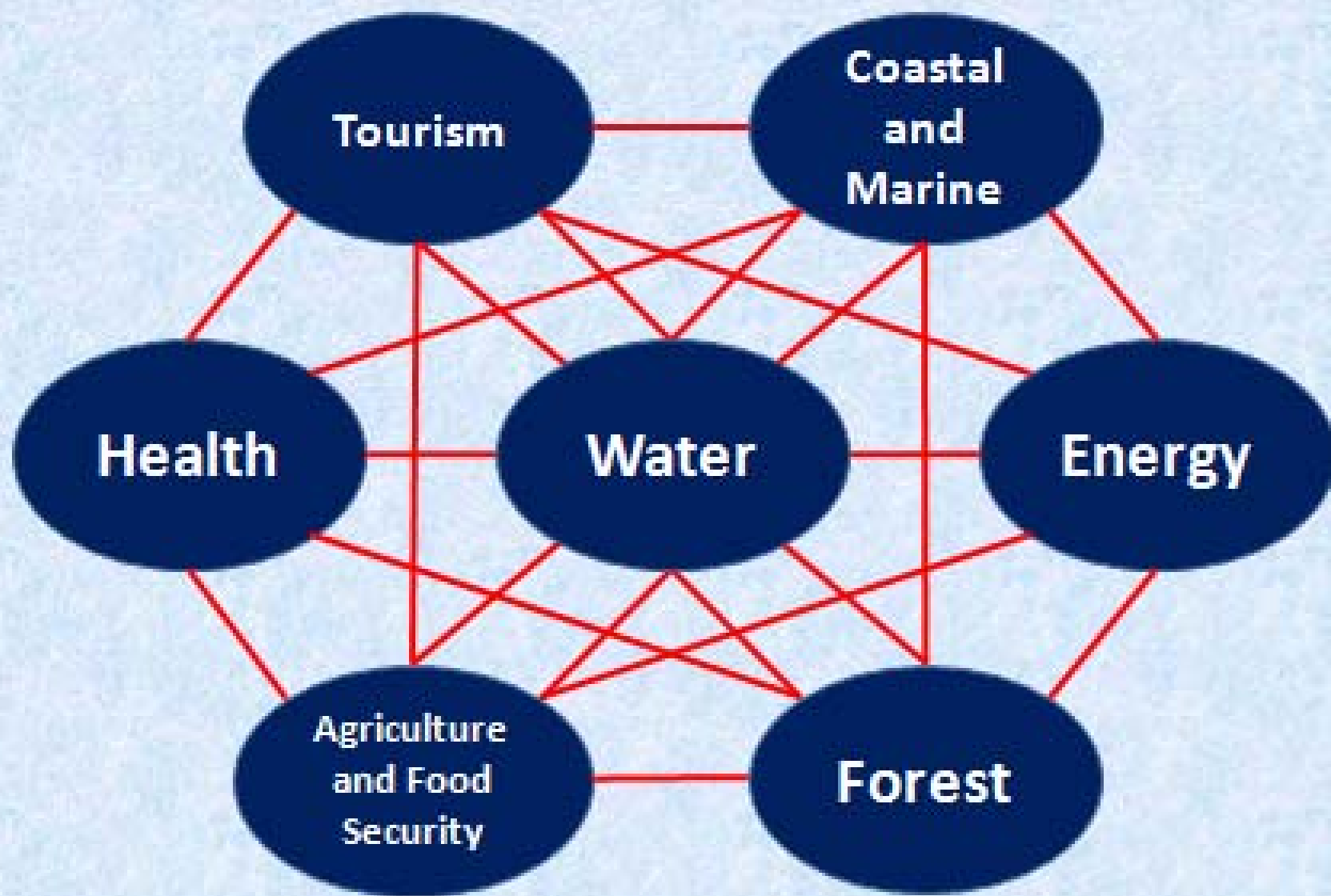
Accredited to the GCF



Caribbean Community
Climate Change Centre

Regional action – the foundation



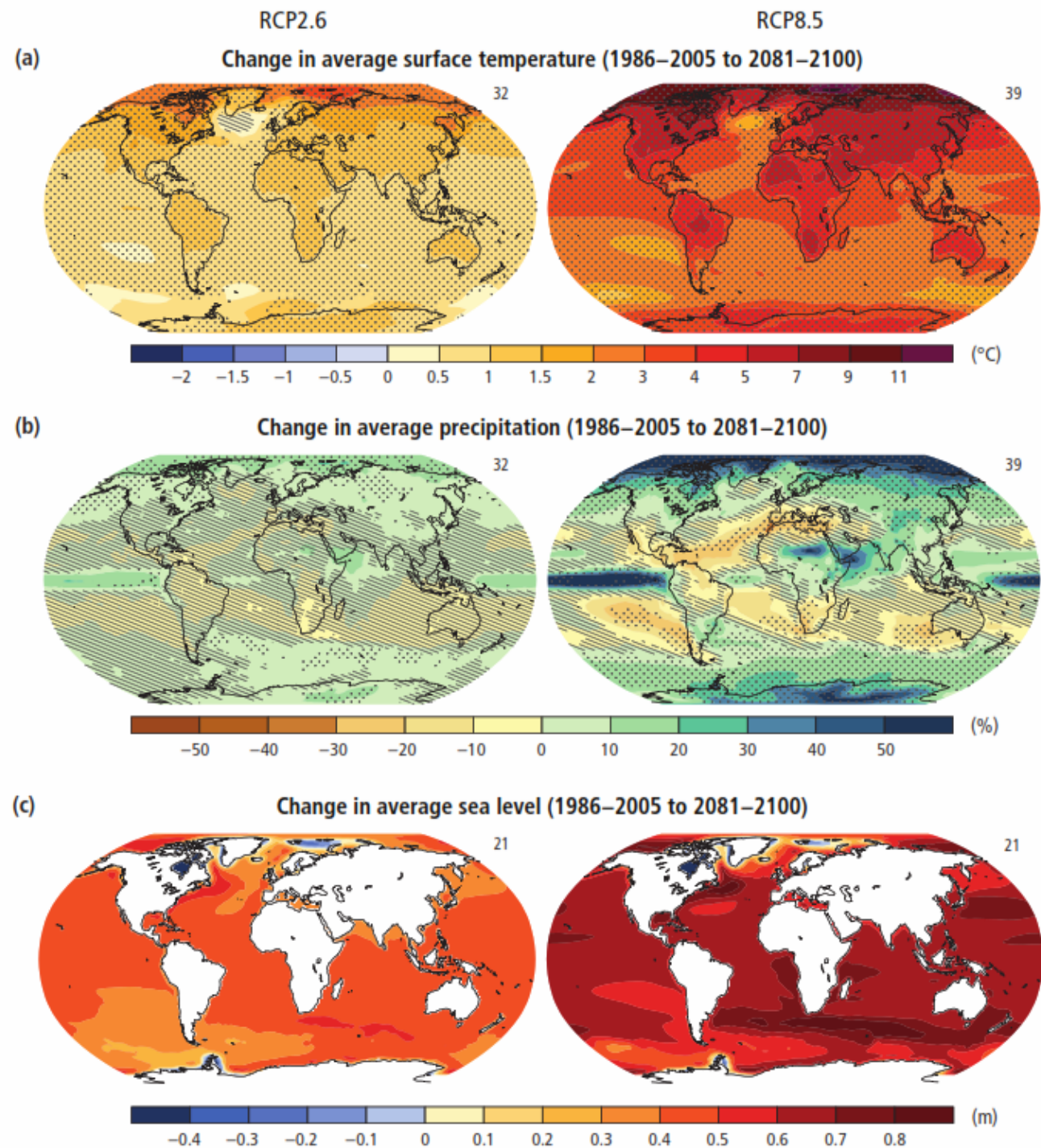


Inter-sectoral Linkages

Hurricane Tracks



Taken from IPCC Synthesis Report 2014



Caribbean Climate

Number of heavy
rainfall **events** is
increasing...



However,
overall rate of
precipitation is
decreasing.

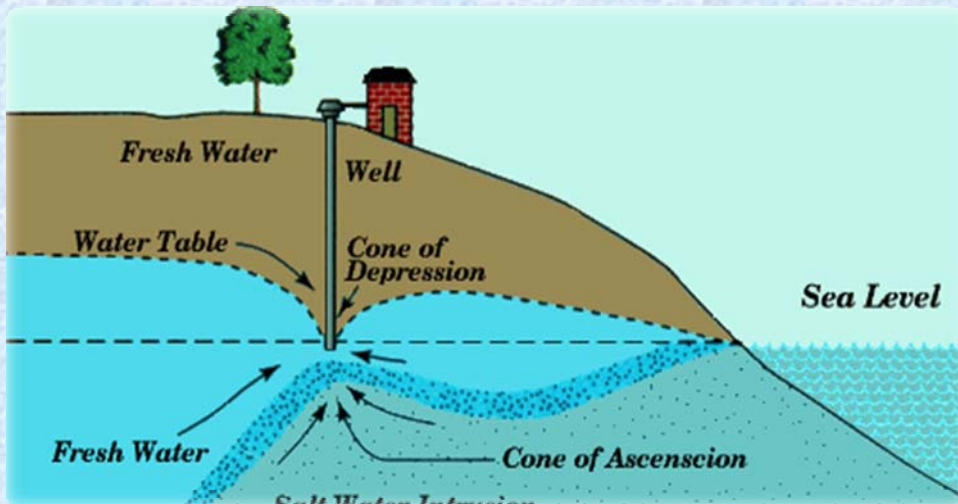


Impacts on Water Resources



Changes in precipitation may affect the availability of fresh water

Less potable water available





<http://static.weadapt.org/knowledge-base/images/655/original/4e8c45494c6datropicalstormgustav-bridgeoverhope-river-disaster-risk-reduction.jpg>



Impacts on Agriculture



Short or long term loss of agricultural lands and infrastructure – reduced production



Volanic Eruptions in St. Vincent and the Grenadines



Regional Strategic Action Plan for Water

Threats from Climate Change	Responses
Changes in hydrological cycle	Sector Governance
Saline Intrusion	Climate informed decision-support
Intensity of extreme weather events	Climate-resilient water resources management
Exacerbation of non-revenue water / leakage	Climate resilient water service provision
	Capacity Building and public sensitization on climate resilience

Promoting Implementation of Specific Adaptation Interventions

Rainwater Harvesting and Greywater Recycling





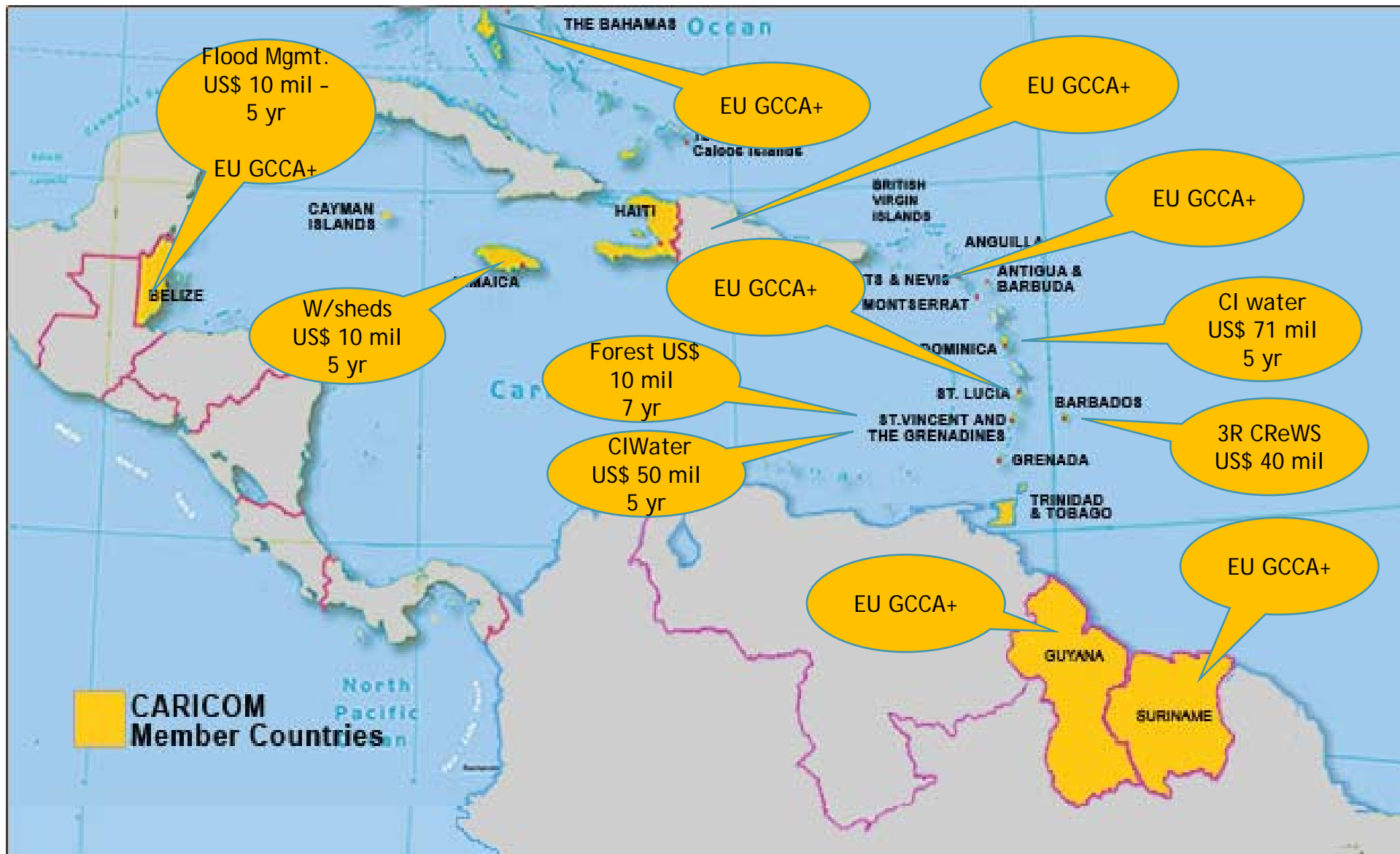
Water Resilient Infrastructure



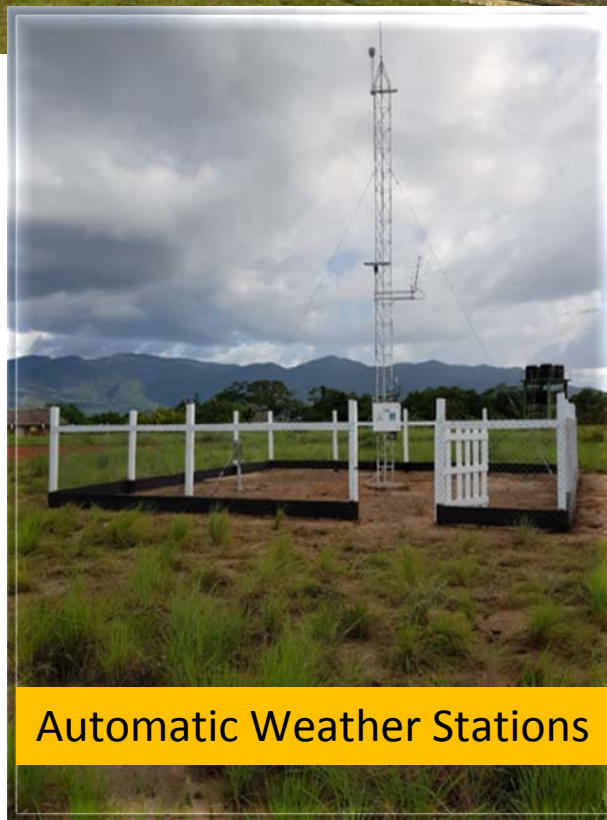
Promoting Implementation of Specific Adaptation Interventions

SWRO Systems in Bequia and Grenada





Water resilience projects in the Caribbean supported by the CCCCC



Automatic Weather Stations



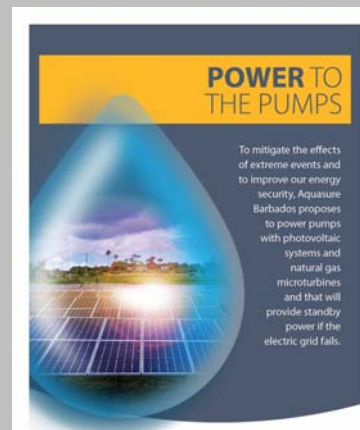
BDOS Water Sector (WSRN/S) project Total US\$ 45.2

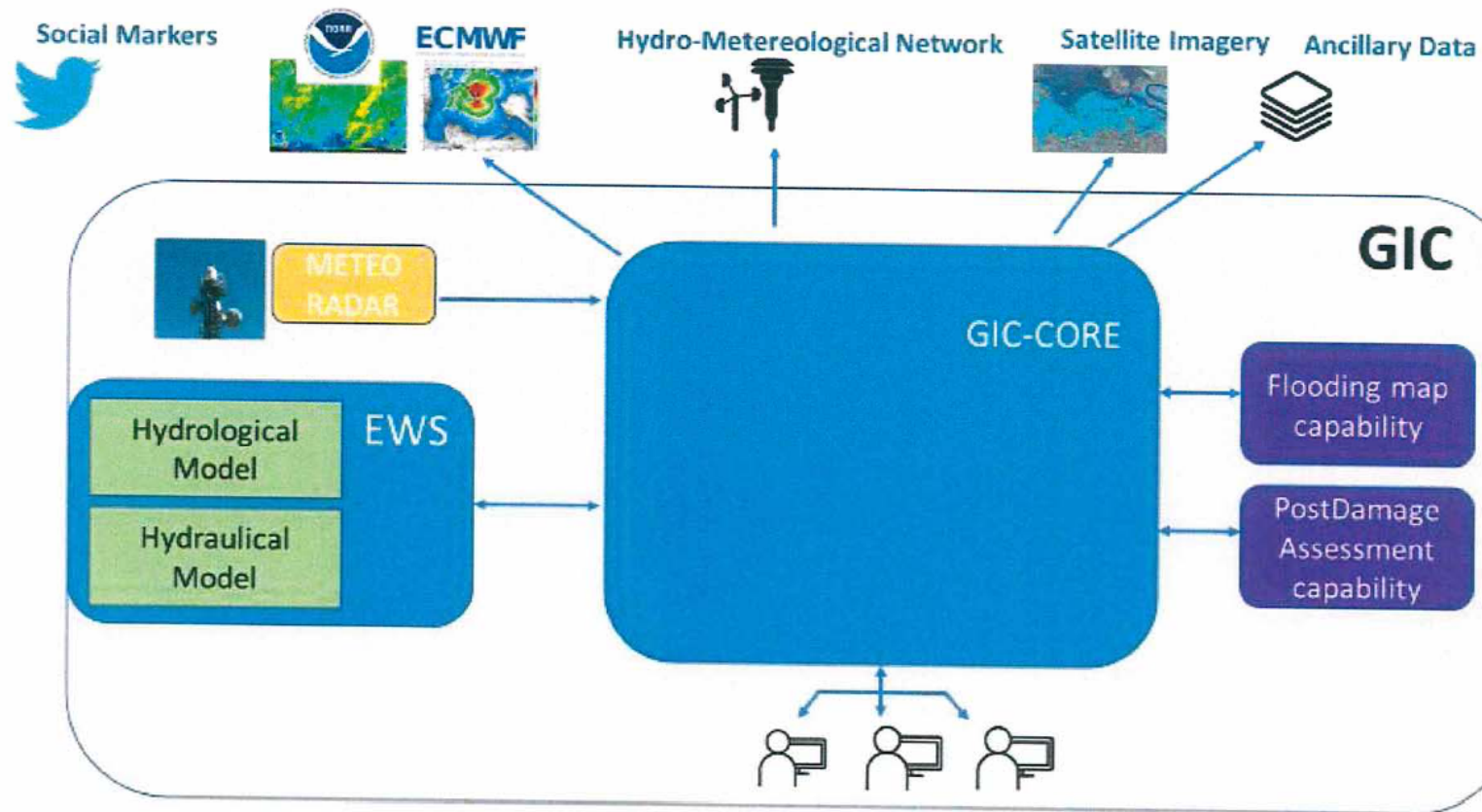
Water and Energy:

- Design, supply, installation and commissioning of 6.5 MW power systems for 3 pumping stations
- ✦ Install Solar PV modules

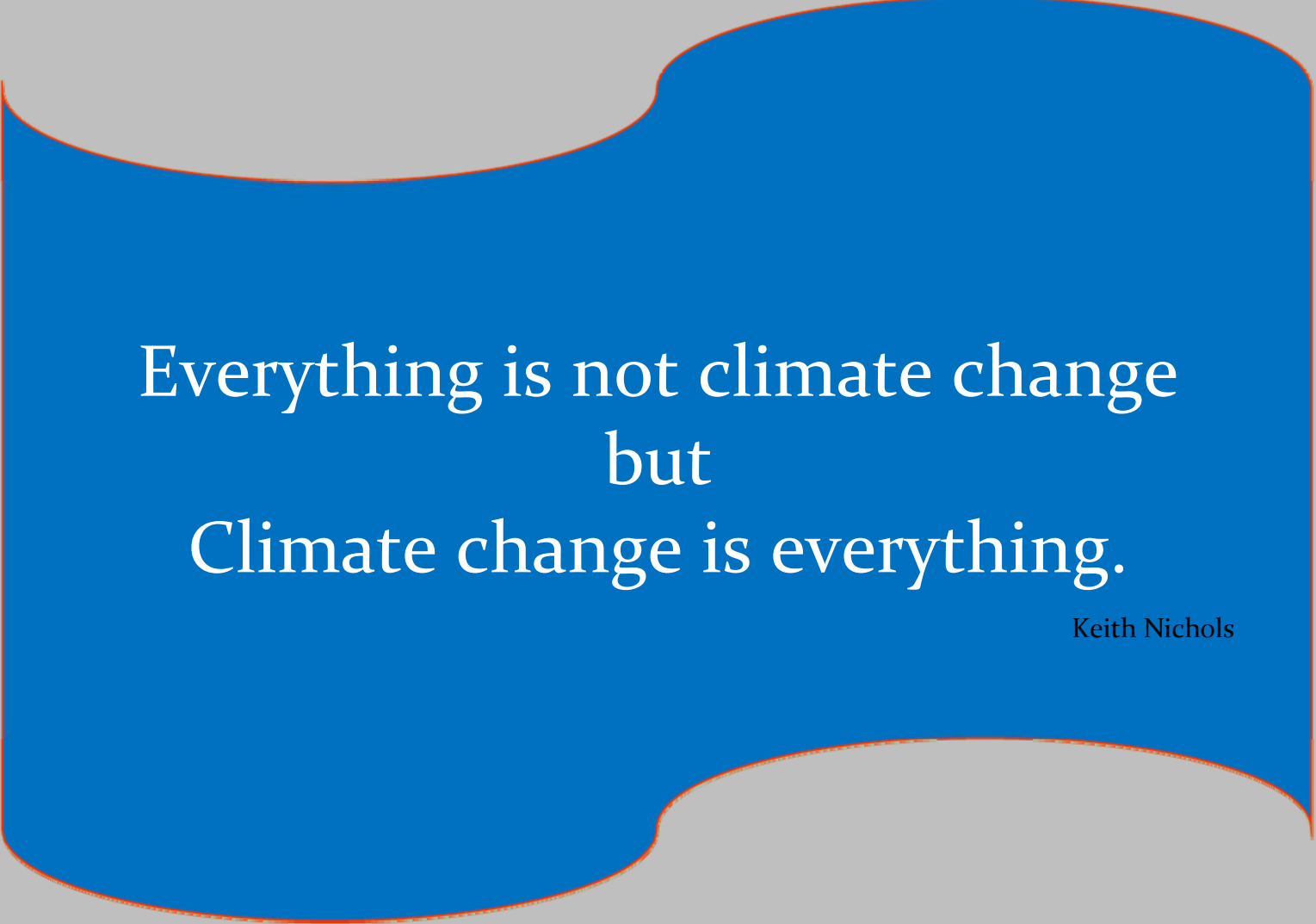
Increased Water Storage and Distribution

- Non-revenue Water management strategy
- ✦ 6 kilometers of outdated water mains replaced.
- ✦ Gender and Vulnerability Needs assessment for clean water storage tanks and rainwater harvesting systems
- ✦ 6 Mobile Water tankers





Early Warning Geo Information Centre for Saint Lucia



Everything is not climate change
but
Climate change is everything.

Keith Nichols