

TITLE: Climate Change Modelling in the Eastern Caribbean

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Climate change is an important issue that would affect the Earth's entire ecosystem in the near future. It is driven by the increase in greenhouse gas emissions that arises mainly from human activity. It therefore becomes important that climate change is better understood so that its effects can be forecasted and reduced or mitigated.

The latest climate prediction models suggest that by the year 2100 the sea level would experience a rise of between 5cm and 85cm, including uncertainties. For the Eastern Caribbean region, by the year 2100, a regional decrease in precipitation and an increase in temperature (compared to the 1961-1990 period) of 0.25 - 0.50mm/day and 2 - 3°C are respectively expected. The reduction in precipitation would affect runoff, infiltration and consequently stream flow.