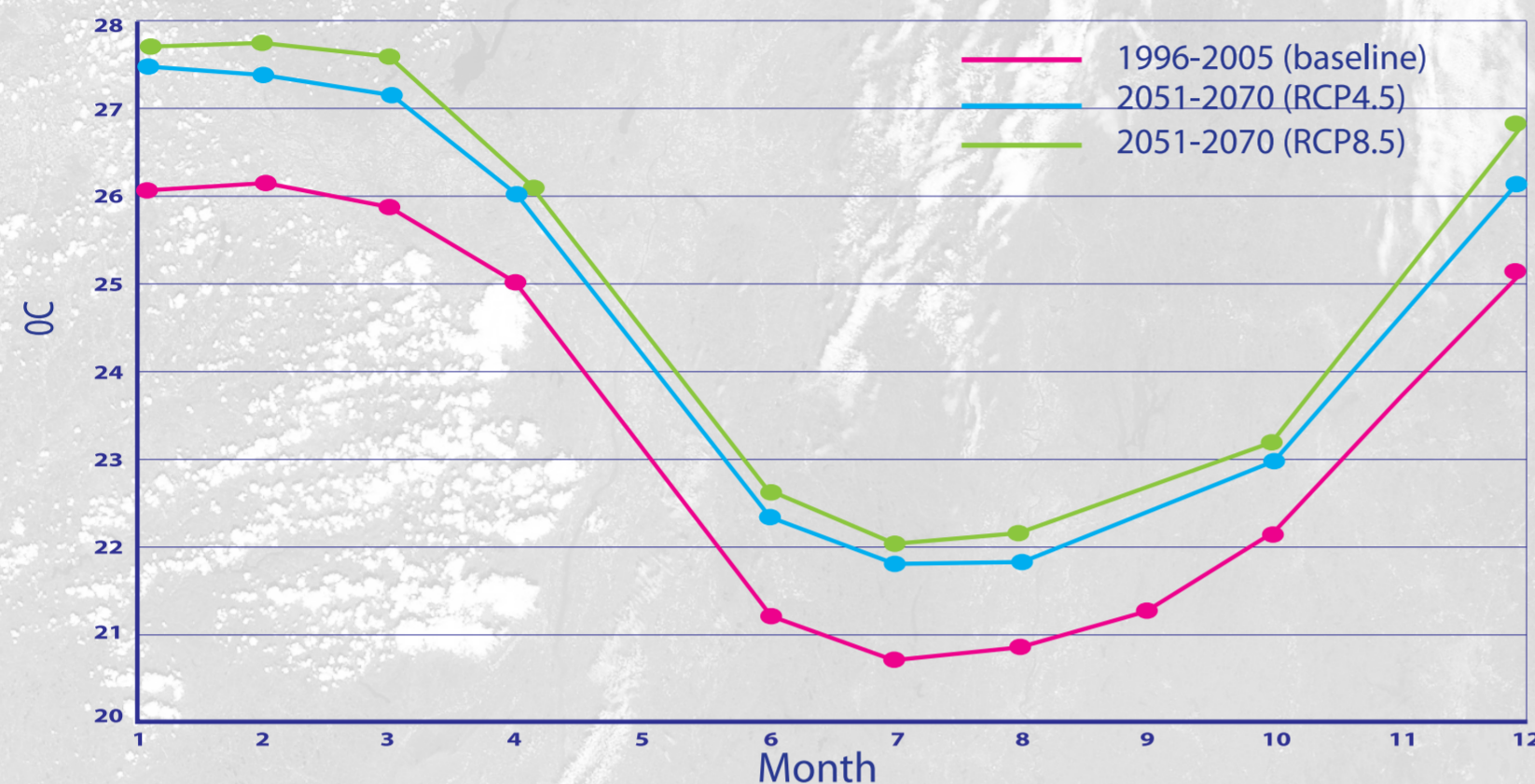


# Climate Projections for Mauritius

Climate projections for Mauritius has been carried out using Intergovernmental Panel on Climate Change Representative Concentration Pathways (RCPs) modeling softwares

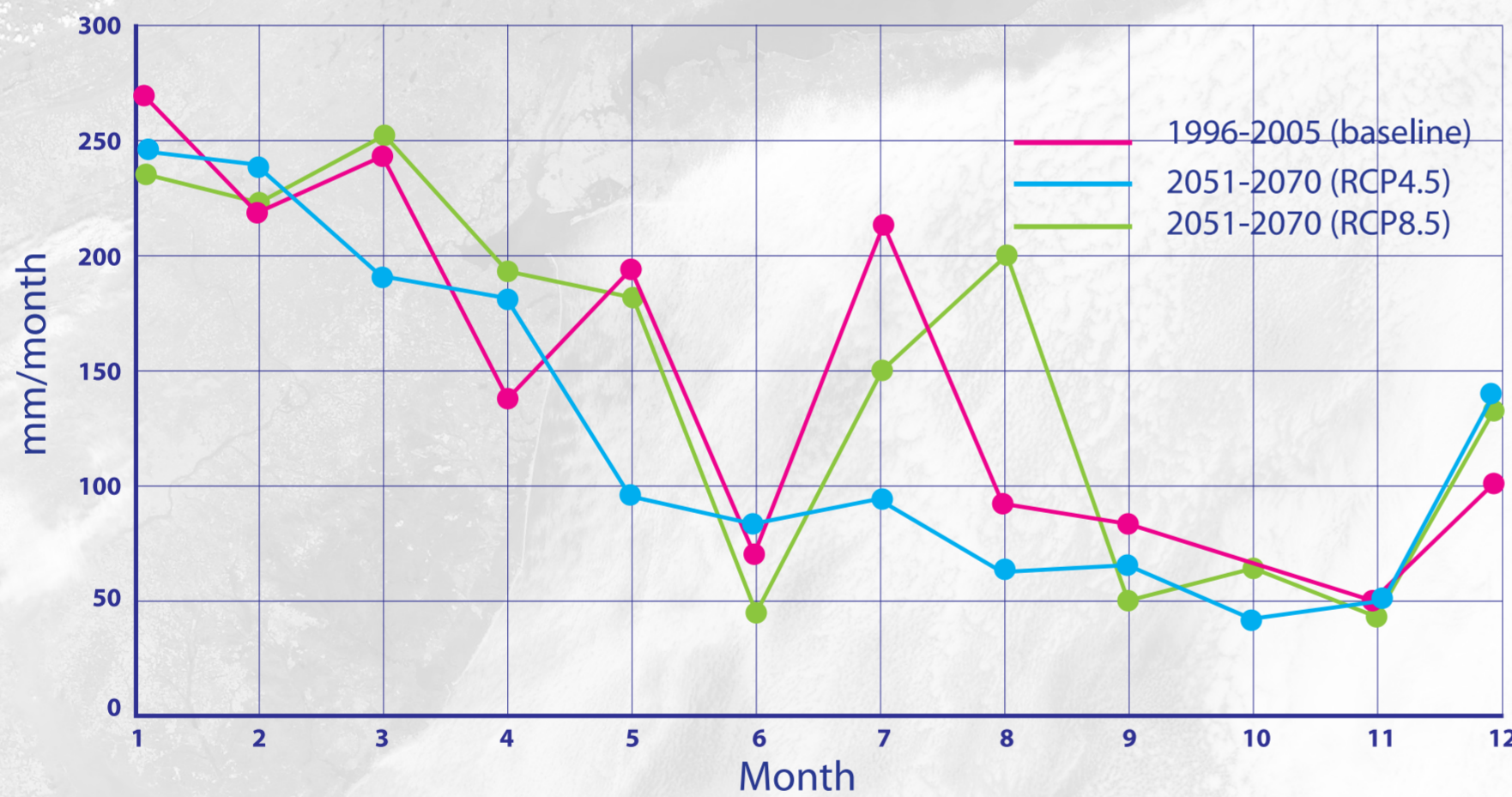
Seasonal cycle - Temperature - Mauritius



Air temperature will increase between 1 to 2° C by 2050-2070

An increase in temperature between 1 and 1.5°C is projected for the period 2051-2070 with respect to the period 1996-2005 for the scenarios RCP4.5 and RCP8.5.

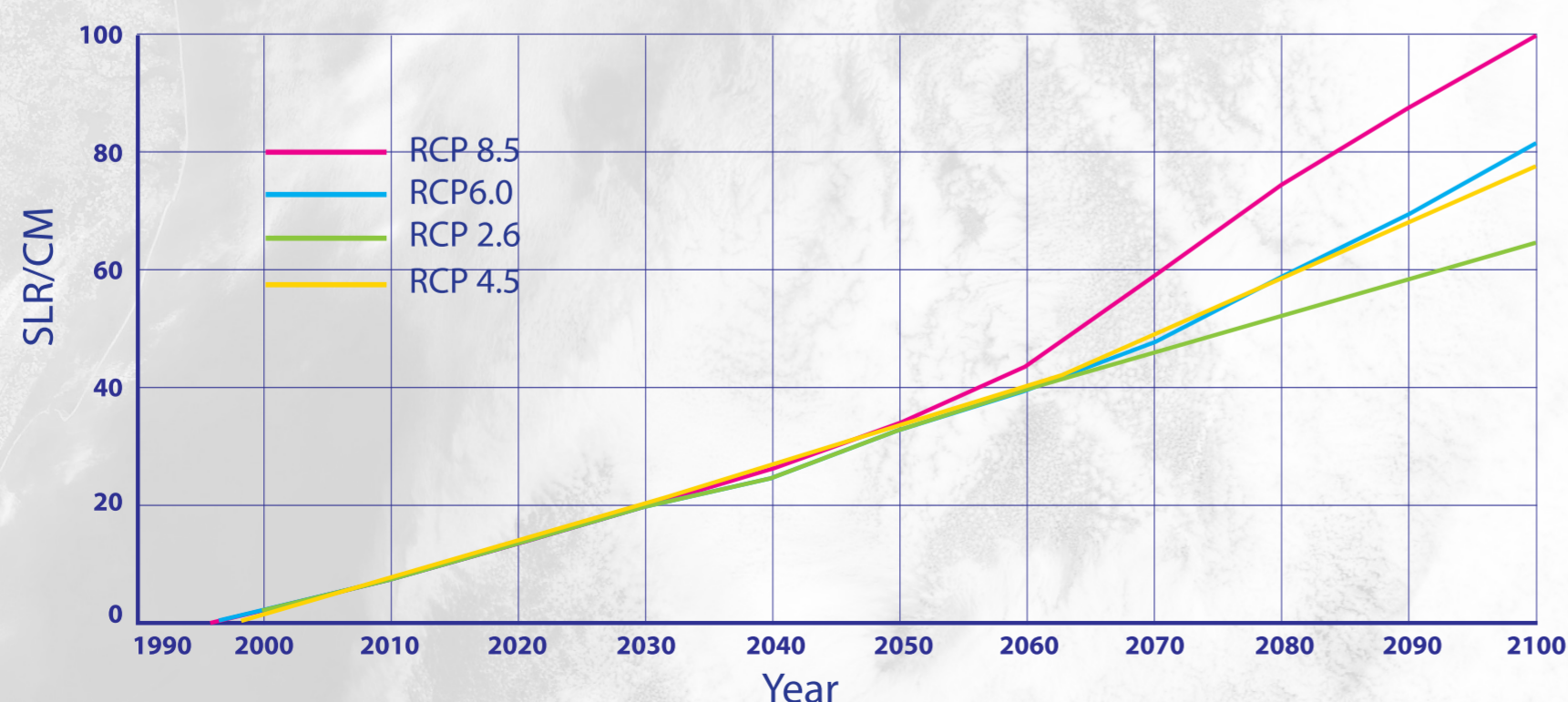
Seasonal cycle - Precipitation - Mauritius



Change in precipitation pattern more pronounced

The precipitation seasonal cycle shows an increase of the monthly precipitation for the scenarios RCP4.5 and RCP8.5 in the period from May to October (usually a cool and dry period). It is also projected that total amount of utilisable water will decrease by 13% by 2050.

Sea Level Rise



Sea level is projected to rise between 65 and 105 cm by 2100

**Representative Concentration Pathways (RCPs)**

Scenarios that include time series of emissions and concentrations of the full suite of greenhouse gases and aerosols and chemically active gases, as well as land use/land cover.

RCP	Description
RCP8.5	Radiative forcing reaches greater than 8.5 W/m2 (~1370 ppm CO2 eq) by 2100
RCP 6 and 4.5	Pathways in which radiative forcing is stabilized at approximately 6 W/m2 (~850 ppm CO2 eq) and 4.5 W/m2 (~650 ppm CO2 eq) after 2100
RCP2.6	Radiative forcing peaks at ~3 W/m2 (~490 ppm CO2eq) before 2100 and then declines (the selected pathway declines to 2.6 W/m2 by 2100)

W/m2 : Watt per square metre  
Radiative forcing values include the net effect of all anthropogenic GHGs and other forcing agents