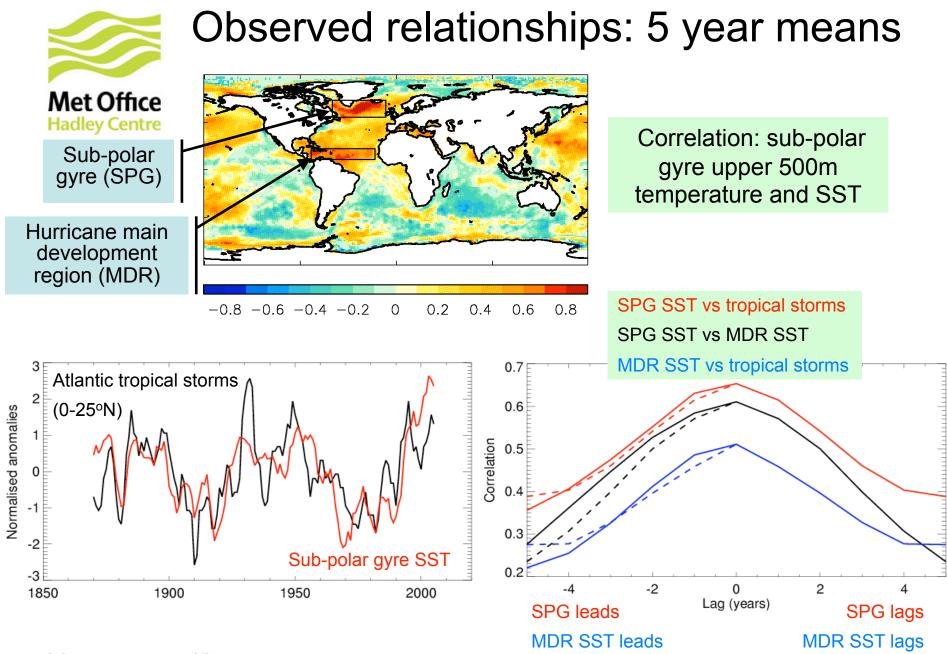


High latitude Atlantic ocean influence on tropical Atlantic atmosphere

Doug Smith, Nick Dunstone, Rosie Eade

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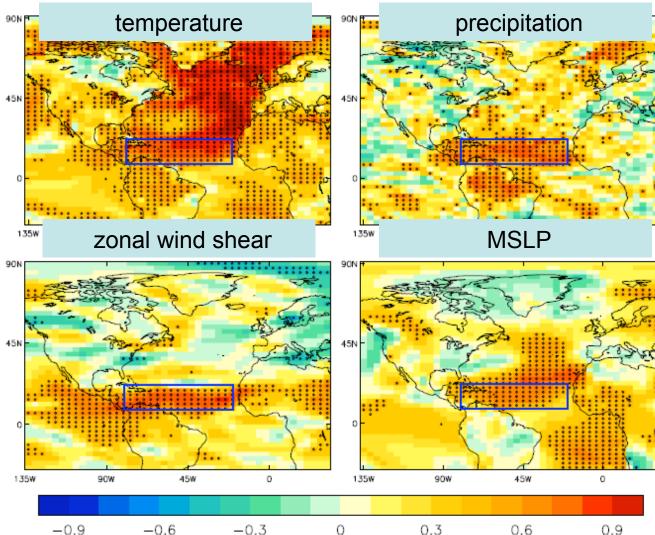


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Skill in tropical Atlantic atmosphere in idealised experiments

Hadley Centre JJASON seasons, Forecast years 2-6:



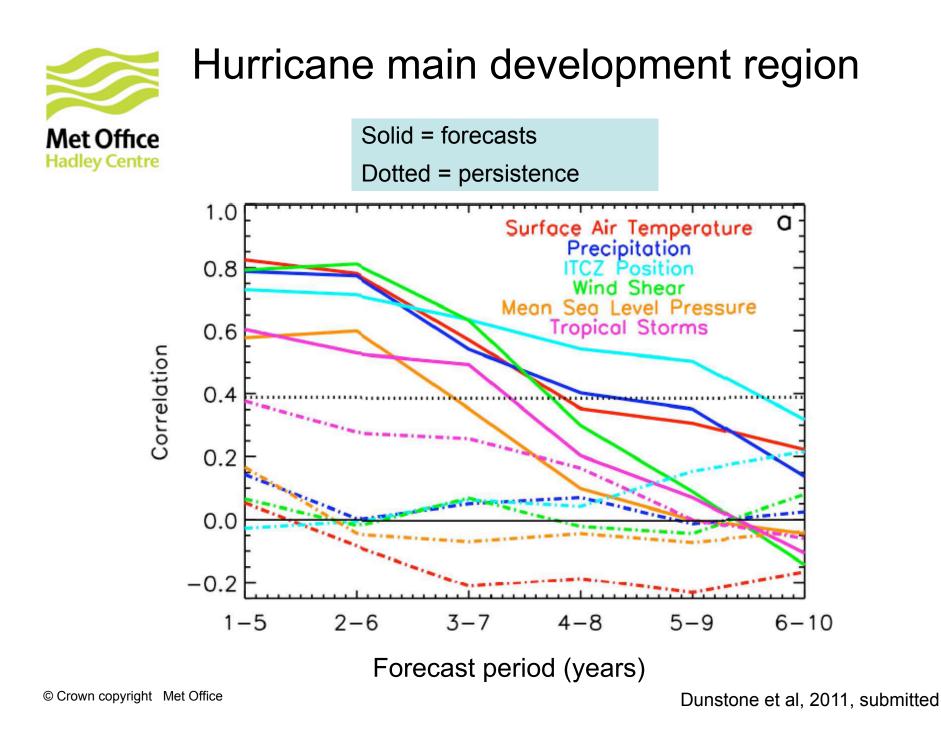
 Large set of idealised model experiments (>25 start dates)

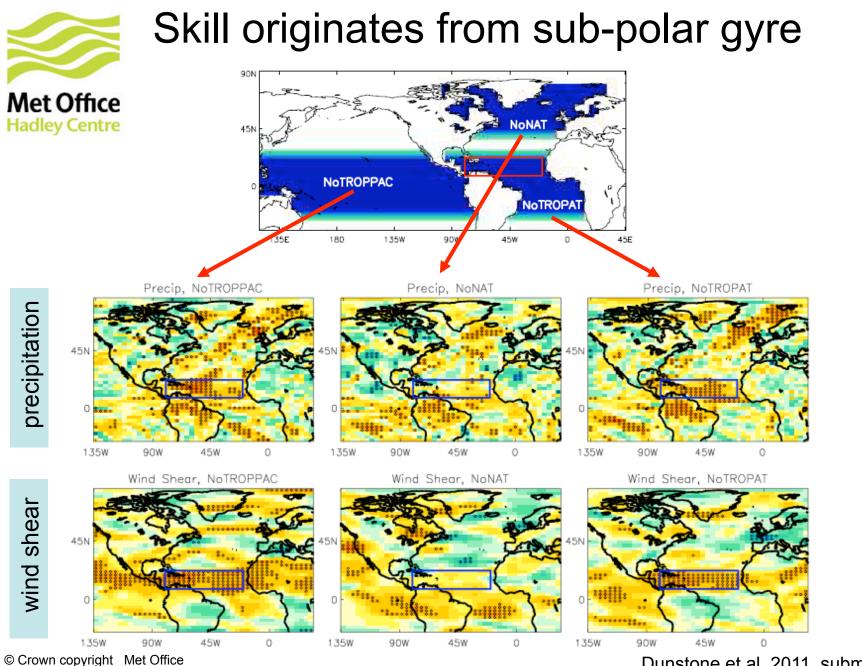
Dunstone et al, 2011, submitted

• Monthly mean T & S ocean data is assimilated at all model locations (no atmosphere assimilation)

• Stippled regions are significant at the 5% level

• Blue box shows the main hurricane development region (MDR)

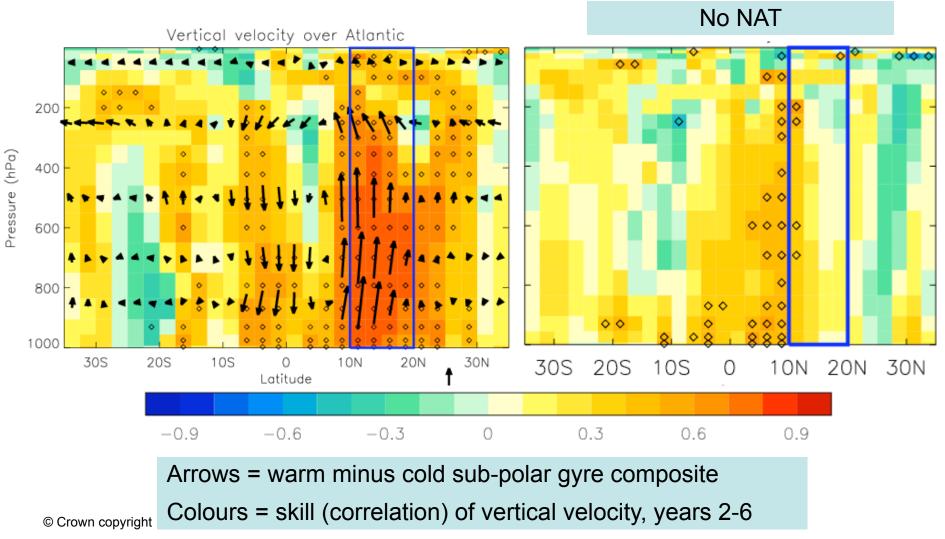




Dunstone et al, 2011, submitted



Sub-polar gyre influence on tropical Atlantic

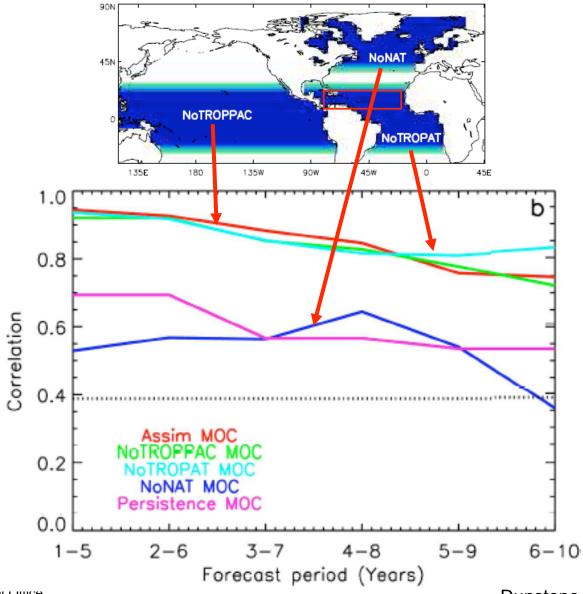




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AMOC at 26° N



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Remote influences on Atlantic hurricanes

