

Results from the Community Atmospheric Model CAM5.1

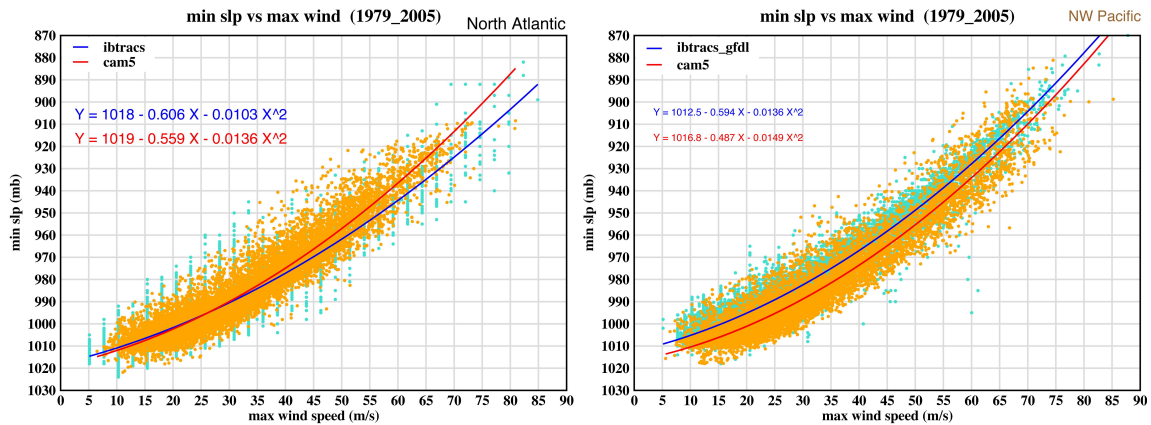
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We present simulated tropical cyclone statistics from integrations of the global Community Atmospheric Model (CAM5.1) at an approximate horizontal resolutions of 25km and 100km. At the higher resolution, the model is capable of simulating tropical cyclones with wind speeds up to Category 5 on the Sapphir-Simpson scale providing insight into potential future changes to the statistics of these intense storms as the overall climate changes. Projected changes under the US CliVar Hurricane Working Group's idealized test configurations will be shown revealing that conclusions drawn from these experiments are highly dependent on resolution.



Scatterplots of the minimum sea level pressure versus the maximum wind speed for simulated (orange) and observed (blue) tropical cyclones over 1979 to 2005 in selected ocean basins for the high resolution CAM5.1. Left: North Atlantic. Right: Northwest Pacific.