



## **Solar-activity's role Climate re-visited: testing recent claims.**

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We present results from a study exploring climate's sensitivity to solar and other types of forcings, utilizing both global climate model (GCMs) experiments with sets of different forcings and observations. Three sets of GCM integrations were done, each consisting of 5 ensemble members, in which the model has given different boundary conditions: all known forcings, solar-only, and greenhouse gases (GHGs) only. We have used a number of different analytical methods to evaluate the model and check that it provided realistic descriptions of the global mean temperature and of its response to different forcings. The analysis is then contrasted to work carried out by others who have claimed that solar forcings can explain most of the past global warming. We have repeated their analysis and shed light on the reasons why our results differ from those claiming a strong solar response.