



Phase coherence between solar/geomagnetic activity and climate variability from stratosphere to troposphere

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Patterns of phase coherence between solar/geomagnetic activity and NCEP/NCAR and ERA-40 air temperature in period 7-8years oscillatory modes was studied.

Both the reanalysis datasets provide consistent patterns of areas with marked, statistically significant coupling between solar/geomagnetic activity and climate variability observed in continuous monthly data, independent of the season, however, confined to the temporal scale related to oscillatory periods about 7–8 years. The role of NAO in transfer of solar/geomagnetic influence from the stratosphere to the troposphere is discussed.