

# TOTAL SOLAR IRRADIANCE FUTURE SECULAR EFFECT ON THE NORTHERN HEMISPHERE WARMING

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**Abstract:** We used a climate model to compute the Northern Hemisphere temperature anomaly for the period 1980–2500. We obtained temperature anomalies for the ocean, the combined ocean-land area and the land. Two IPCC CO<sub>2</sub> concentration scenarios were considered, the high RCP8.5 and the low RCP4.5. Furthermore, we included an estimate of the Total Solar Irradiance. We found that the Total Solar Irradiance has a fundamental role in the temperature behavior over the long-term.

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