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Title: East Asian Solar System

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Does solar activity influence monsoon precipitation over South and East Asia?

In addition, paleo-records indicate the correlation between the long-term solar cycle and the variation of the Asian Monsoon. This study attempts to clarify the role of solar activity in monsoonal precipitation over South and East Asia.

Do solar signals indicate enhanced rainfall over Southeast Asia?

Although solar signals indicate enhanced rainfall over Southeast Asia in both early- and peak-summer, statistically insignificant signals in peak-summer and the distinct ENSO signal patterns in the two sub-seasons prompt us to differentiate them, instead of seasonal analysis, to identify the responses of AM to the climate forcing factors.

Does subtropical East Asia have heterogeneous rainfall patterns?

Over the past millennium, subtropical east Asia has experienced rainfall heterogeneity, with synchronous variations in southeast Asia and north China; but heterogeneous rainfall patterns in central to southwest China; due to the influence of the western Pacific subtropical high, according to analysis of Asian precipitation records.

Is East Asian summer monsoon multidecadal?

Interdecadal to multidecadal variability of East Asian summer monsoon over the past half millennium. *JGR Atmos*, 127: e2022JD037260

Aug 21, 2025; Understanding the decadal variability of the East Asian monsoon over the past millennium is essential for improving projections of its future change. Recent advances in ...

Sep 19, 2024; Over the past millennium, subtropical east Asia has experienced rainfall heterogeneity, with synchronous variations in southeast Asia and north China; but ...

Dec 7, 2023 · Here we evaluate how solar irradiance influences the ASM ...

Feb 7, 2024 · We attempt to investigate the precipitation responses to the solar activity over South and East Asia, with a focus on early summer, to offer plausible physical processes and provide ...

3 days ago · Accurate solar radiation forecasting with numerical weather prediction (NWP) is critical for optimizing photovoltaic power generation. This study evaluates short-term (<36 h) ...

Feb 6, 2024 · The Asian Monsoonal rainfall accounts for the majority of annual regional precipitation in East and South Asia and could be ...

Feb 6, 2024 · The Asian Monsoonal rainfall accounts for the majority of annual regional precipitation in East and South Asia and could be remotely regulated by El Niño-Southern ...

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Dec 7, 2023 · Here we evaluate how solar irradiance influences the ASM-ENSO relationship using last-millennium paleoclimate data assimilation reconstructions and model simulations. We find ...

Mar 15, 2025 · The solar signals within the bimonthly mean precipitation (May-June) indicate a correlation between increased total solar irradiance and elevated rainfall across South and ...

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