
West Asia Solar Rotation

Which regions of China have negative solar radiation anomalies?

Notably, the central part (45°N, 123°E) of Northwest China and Northeast China show significantly larger negative solar radiation anomalies. Under Type 2, except for the positive anomalies in Northeast China, all other regions of China have negative SSR anomalies.

Where can I find a daily SSR and meteorological variables over China?

Data The observed daily SSR (at 97 sites) and daily meteorological variables (at about 2400 stations) over China during 1980-2020 were available from the China Meteorological Administration. The raw records have been homogenized using combined method of static mode correction and mean value correction .

Who supported the study of Meteorology in China?

This work was supported by the National Natural Science Foundation of China (Grants Nos. 42306270 and 42375188), and the Basic Fund of the Chinese Academy of Meteorological Sciences (Grant Nos. 2023Y004 and 2023Z013).

Which synoptic patterns are associated with spatio-temporal variations of SSR in China?

Here, we identify four synoptic patterns by T-mode principal component analysis method during 1980-2020 associated with the spatio-temporal variations of SSR in China, including geopotential height anomalies of west-high-east-low (Type 1), north-high-south-low (Type 2), east-low-west-high (Type 3), and north-low-south-high (Type 4).

Chinese scientists have discovered a new pattern of solar atmospheric rotation using data from the CHASE satellite, creating the first precise 3D representation and unlocking ...

As a result, much remains unknown about coronal rotation, particularly how it varies with altitude. Solar physicists generally believe that solar radio emissions of different frequencies originate ...

It has been known since the first observations of solar rotation around 1610 by Galileo Galilei, Johannes Fabricius and Christoph Scheiner that the solar equator rotates ...

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Chinese scientists have made a significant breakthrough in solar research through the use of their solar exploration satellite, the ...

This update follows the initial West Asia Network Update on 13 May 2025. West Asia Service Update - 29 May TIG Service Karachi ...

Therefore, exploring the effects of weather and climate change on surface solar radiation is

important for scientific development planning of solar energy systems and climate ...

HighlightsWhat are the main findings?The WRF-Solar EPS model shows comparable short-term (<36 h) forecasting capabilities to WRF-Solar, the model performing ...

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From this data astronomers have determined the rotation period of the Sun, the nature of the solar cycle, the existence of differential rotation and possible influences of the ...

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