West asia solar rotation

What is solar rotation?

Solar rotation is the rotation of the Sun about its own axis. The Sun is not a solid body, but is composed of a gaseous plasma, and different latitudes rotate with different periods. The solar rotation period is 25.67 days at the equator and increases with increasing latitude, reaching 33.40 days at 75 degrees of latitude.

How often does the Sun rotate on its axis?

The Sun rotates on its axis once in about 27 days. This rotation was first detected by observing the motion of sunspots. The Sun's rotation axis is tilted by about 7.25 degrees from the axis of the Earth's orbit so we see more of the Sun's north pole in September of each year and more of its south pole in March.

How does solar activity affect monsoonal East Asia?

Further analyses suggest that intensified decadal to centennial solar activity can lead to enhanced and northward and westward extension of the western Pacific subtropical high, resulting in tripolar rainfall heterogenous patterns over monsoonal East Asia.

Is rainfall heterogeneity present in Southeast Asia and North China?

Here we show that such rainfall heterogeneity has been present at least in the last millennium, with decadal to centennial precipitation variations over southeast Asia and north China being broadly synchronous, while central to southwest China's variations are generally out-of-phase with those in southeast Asia and north China.

A comprehensive understanding of the relationship between atmospheric circulations and variations in surface solar radiation (SSR) is important for effectively utilizing solar resources and ...

In fact, the Sun"s equatorial regions rotate faster (taking only about 24 days) than the polar regions (which rotate once in more than 30 days). The source of this "differential rotation" is an ...

The thin yellow-colored curve shows the trajectory of the sun, the yellow deposit shows the variation of the path of the sun throughout the year. The closer a point in the center, the higher the sun above ...

We propose that the western Pacific subtropical high, which reduces decadal to centennial precipitation over central to southwest China due to its anticyclonic feature, could be ...

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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 new ...

A notable shift in solar irradiance patterns across East and Southeast Asia was observed in September, with a clear split in outcomes across China and emerging La Niña signals in the tropics.

Discover West Asia"s solar potential with Solcast" solar radiation map. Get real-time and forecast irradiance data based on three-dimensional cloud modelling. Powered by satellite data, our solar ...

Solar PV - operational solar module maker, Azguntex LLC, which owns a 75MW solar panel manufacturing facility since 2012. The Azguntex was established by the State Agency on Alternative ...

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