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**Monsoons Over
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The monsoon over China is one of the major components of the general circulation on a global basis. Its activity bears a significant regional implication in East Asia and Southeast Asia. Recently, the remarkable relationship and teleconnection between this part of the monsoon and other regions over the world have been revealed.

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**Monsoons over
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between this part of the monsoon and other regions over the world have been revealed.

Monsoons over China (Atmospheric and Oceanographic

...

Studies show that both the summer and winter monsoons affecting China have weakened over the past few decades. Scientists think that there are several reasons for

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such a decrease: global warming, regional and global changes in atmospheric circulation, changes in solar radiation, as well as human-induced aerosols (i.e. tiny particles suspended in the atmosphere, generated by human activities ...

**The monsoons and
climate change -
Hong Kong
Observatory**

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The SCSMEX is a joint atmospheric and oceanic field experiment which aims to better understand the onset, maintenance, and variability of the summer monsoon over the South China Sea (SCS). It is a large-scale international effort with many participating countries and regions cooperatively involved in this experiment.

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Overview of the South China sea monsoon experiment ...

Previous studies have documented a generally negative relationship between the EAWM and the EASM: a weak EAWM is often followed by enhanced summer monsoon rainfall over East Asia, especially central China, and vice versa (Chen et al.

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2000, 2013). Given their importance for regional economy and society, variations of the EASM and associated droughts, flooding, and other disasters have long been ...

A Bridging Role of Winter Snow over Northern China and

...

2.1. Changes of summer rainfall in eastern China and East

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Asian summer monsoon. The variation of the summer monsoon rainfall averaged to the east of 100°E over eastern China with time is shown in Figure 1. From Figure 1 it can be seen that, besides the inter-annual variability, the inter-decadal variability is a predominant feature for the long-term variation.

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**Effects on Summer
Monsoon and
Rainfall Change Over
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**South China Sea
summer monsoon
withdrawal and the
synoptic ...**

The onset of the
summer monsoon is
marked by a period of
premonsoonal rain
over South China and
Taiwan in early May.

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From May through August, the summer monsoon shifts through a series of dry and rainy phases as the rain belt moves northward, beginning over Indochina and the South China Sea (May), to the Yangtze River Basin and Japan (June) and finally to North China and Korea (July).

**greatest
atmospheric
phenomena: all**

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about monsoons

The onset of the summer monsoon is marked by a period of premonsoonal rain over South China and Taiwan in early May. From May through August, the summer monsoon shifts through a series of dry and rainy phases as the rain belt moves northward, beginning over Indochina and the South China Sea (May), to the Yangtze River

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Basin and Japan (June)
and finally to North
China and Korea (July).

Climate of Asia -

Wikipedia

China is located within
the largest monsoon
(Asian monsoon)
domain in the world. In
May–September every
year, the Asian
summer monsoon
prevails; strong
cross-equatorial winds
flow from the Southern
Hemisphere (SH) to the

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Northern Hemisphere (NH), bringing warm and moist air from the oceans to eastern China.

Impacts of Asian summer monsoon on seasonal and ...

Monsoon precipitation is a key element in global water and energy cycles and a major driver for atmospheric general circulation. Monsoon prediction is the most

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challenging problem in
climate science. ... A
meteorological drought
was observed over
North China in the
2017-2018 winter, ...

Atmosphere | Special Issue : Monsoons

This paper identifies
the seasonal
relationships between
monsoon activities
over South China (SC)
in winter and summer,
which can help

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improve seasonal predictability. A predefined unified monsoon index that can well represent monsoon characteristics in both winter and summer over SC is employed. A time series of this unified monsoon index in summer and winter, and a lead-lag correlation ...

**Phase relationship
between summer**

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Monsoons Over China and winter

monsoons over ...

Interdecadal variations in the early (May–June) summer monsoon rainfall over South China (SCMR) are found to be related to the ENSO (El Niño/Southern Oscillation) and the PDO (Pacific Decadal Oscillation). An interdecadal variation in SCMR can be identified, with more dry (wet) monsoon

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years during the periods of high (low) PDO index.

PDO, ENSO and the early summer monsoon rainfall over south ...

The circulation pattern corresponding to the strong / weak summer monsoon in the South China Sea (SCS) region and the associated characteristics of the abnormal rainfall in Eastern China have

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been studied by using the NECP reanalysis data and precipitation data in China. The results show that the climate variations in China caused by the strong / weak summer monsoon are completely different ...

Strong/ weak summer monsoon activity over the South China ...

total precipitation over most of China.

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Monsoon ... out with
the Biosphere-
Atmosphere Transfer
Scheme (BATS,
Dickinson et al. 1993)
and the planetary
boundary layer
computations employ

Reduction of future monsoon precipitation over China ...

13132 H. Zhang et al.:
Monsoon-facilitated
characteristics and
transport of

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atmospheric mercury and then move across southwestern China and the eastern Tibetan Plateau. During the non-ISM period (from October to April), the dry and cold air masses from Siberia and central Asia move through mainland China into the Pacific Ocean

Monsoon-facilitated characteristics and transport of ...

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Precipitation and wind fields of the Asian monsoon show contrasting patterns between winter and summer (Figure 2.22). In winter, three branches of monsoon flow southward, respectively, over the Arabian Sea, the Bay of Bengal (Indian monsoons), and the SCS (East Asian monsoon), forming strong cross-equatorial northerlies there

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(Figure 2.22; Wang et al., 2003).

Monsoon - an overview | ScienceDirect Topics

The Indian monsoon is a critical source of water for hundreds of millions of people, and when it fails to deliver its normal quantity of rain, enormous human, economic, and ecological costs can be incurred. Monsoon droughts are not

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always seasonal, however. Borah et al. found that nearly half of all monsoonal droughts were subseasonal and characterized by a steep decline in late-season rainfall.

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