

<<亚洲季风年科学计划>>

图书基本信息

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内容概要

The Asian Monsoon Years (AMY 2007—2012) is a cross-cutting initiative as part of the International Monsoon Study (IMS) , a coordinated observation and modeling effort under the leadership of the World Climate Research Programme (WCRP) . The long-term goal of AMY is to improve Asian monsoon prediction for societal benefits through coordinated efforts to improve our understanding of Asian monsoon variability and predictability. It is believed that coordination and cooperation of individual participating and partner projects will greatly facilitate the efforts to reach this goal.

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About 60% of the world population inhabits the region of the Asian monsoon. Agriculture and , more widely , economy and society across Asia are critically influenced by the variability of the monsoon. Many of the Asian countries are developing countries whose economies are fast growing yet considerably affected by anomalous climate and disastrous weather events. Future change in the Asian monsoon climate is also of the greatest concern to the world economy and sustainable development. The scientific importance of the Asian monsoon cannot be overemphasized. The giant Asian monsoon system dominates the entire Eastern Hemisphere tropics and subtropics. It interacts with the El Niño-Southern Oscillation (ENSO) and extratropical circulations , and has far-reaching impacts on global climate and environment. The Asian monsoon exemplifies the most complex interactions between the Earth's land surface , ocean , atmosphere , hydrosphere , cryosphere and biosphere including human activities. Monsoon science has advanced enormously in the last two decades due to a wealth of new data from satellite observations and field experiments , and due to advances in computing power and mathematical representations of coupled climate systems. Driven by the needs to better understand and predict monsoons on all time scales from daily weather to climate change , monsoon research has received much attention in Asian monsoon regions. The Asian Monsoon Years (AMY 2007—2012) is a timely endeavor to integrate and coordinate these activities.

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