



AS1.13 The global monsoon system: variability & dynamics

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Monsoon systems are among the most complex coupled atmospheric and oceanic weather and climate phenomena. They produce much of the rainfall in the tropics and some subtropics and their variability is notoriously difficult to predict at all temporal scales, from intraseasonal to interdecadal. The energy they release impacts the overall circulation in the tropics and influences the mid/high-latitudes through teleconnection patterns. Each monsoon system, the Asian-Australian, African, and North and South American, involves multi-scale interactions among the Earth's atmosphere, ocean, land surface, cryosphere, and biosphere, and is impacted by human activities (land use, aerosols, greenhouse gas emission, etc.). Furthermore, the economies of many countries are strongly impacted by monsoon-related variability.

This session invites presentations on all aspects of monsoon dynamics, from the variability and predictability of the monsoon systems on multiple time-scales, to the impact of monsoons on climate extremes (floods and droughts), and linkages between monsoons and mid/high-latitude climate.

Observational, modeling and forecasting studies are welcome, as are those using palaeoclimate modeling or proxy data.