

## AMY (Asian Monsoon Years) Coordinated Observations

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The Asian Monsoon Years (AMY 2007-2012) is a cross-cutting initiative as part of the International Monsoon Study (IMS) and a coordinated observation and modeling effort under the leadership of the World Climate Research Programme (WCRP). It aims at improving Asian monsoon prediction through coordinated efforts to advance our understanding of complex interactions between the Earth's land surface, ocean, atmosphere, hydrosphere, cryosphere and biosphere including human activities.

In the years 2008-2009, the first Intensive Observing Period (IOP) will be coordinated as one of the highlighting activities of AMY. IOP observations will provide observational results that are useful for validating and improving numerical models, and will provide valuable ground truth data for calibration of satellite measurements. Another important aspect of the IOP is to find out the unknown physical processes/phenomena related with monsoon variability which has not been involved in the models but crucial for better representation of the models. Combination of in-situ observations with satellite observations is essential for understanding the large-scale processes. Since AMY targets land-ocean-atmospheric interactions and aerosol-monsoon interactions under the Asian monsoon system, well coordinated ocean, land, aerosol and atmospheric observations should be conducted in IOP.

Here, AMY coordinated observations in the years 2008-2009 will be introduced and some preliminary findings on the multi-scale interactions in heavy rainfall events in Southeast Asian winter monsoon season will be presented.