

# Dynamical Monsoon Indices

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**Abstract:** Monsoon onset over Kerala has been considered as the beginning of the Indian principal rainy season, or simply the monsoon season. A variety of monsoon indices are examined to study the different phases of the monsoon season. The usefulness of these dynamical monsoon indices are explored extensively at the National Centre for Medium Range Weather Forecasting (NCMRWF). Three popular monsoon indices have been presented here to study the onset, strength and withdrawal phases of monsoon season during 2012. In general, the indices are able to represent the onset, variability in strength of monsoon and the withdrawal in a reasonable way. As per these indices, the actual date of monsoon onset over the main land is during 27-31 May. These indices computed from the NCMRWF global atmospheric models can be used to forecast the changes in phases of the monsoon system within the season.

**Keywords:** *Monsoon, Onset, Indices, Rainfall, Withdrawal, Active, Hiatus*

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