

# Heavy monsoon rainfall: a case study of July, 2003 with reference to synoptic perspective in Nepal

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## ABSTRACT:

Widespread rainfall during active monsoon is quite common. Events of moderate to heavy rainfall in a particular region or area of the kingdom following dry spells are a matter of challenge from the point of view of weather forecasting. Such type of rainfall is more responsible for causing different disasters such as flood, landslide, etc. Similar heavy rainfall episode near the end of July, 2003 caused extensive havoc in the kingdom. Three day's rainfall ending on 31<sup>st</sup> July, 2003 caused property damages and death of people, considerably more than in preceding years. The episode began on 29<sup>th</sup> July from east Nepal and gradually covered the whole Nepal on 31<sup>st</sup> July. On the 31<sup>st</sup> July, some territories of central Nepal received extreme rainfall following active monsoon. The event is studied in conjunction with various meteorological factors and synoptic variations.

*Keywords:* Monsoon, flood, landside, weather forecasting

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