Off shore trough and very heavy rainfall events along the West Coast of India during ARMEX-2002


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ABSTRACT. Arabian Sea Monsoon Experiment (ARMEX) 2002 was carried out from mid June to mid August to study the presence of off-shore trough (OST) and embedded vortices. Four cases of heavy rainfall along the west coast (rainfall exceeding 12 cm in 24 hour) of India were recorded on 14-16 June, 20-22 June, 26-28 June and 7-10 August 2002. The heavy rainfall event of 26-28 June was due to a low pressure system that moved from Bay of Bengal across Madhya Pradesh to Gujarat and adjoining Rajasthan. The other three heavy rainfall events were associated with the off shore trough and/or off shore vortex.

Key words – ARMEX, Off shore trough, Heavy rainfall, Off shore vortex.