

**GOVERNMENT OF INDIA  
EARTH SCIENCES  
LOK SABHA**

UNSTARRED QUESTION NO:1095

ANSWERED ON:25.11.2009

CHANGING PATTERN OF SOUTH -WEST MONSOON

Majhi Shri Pradeep Kumar;Patel Shri Kishanbhai Vestabhai

**Will the Minister of EARTH SCIENCES be pleased to state:**

(a) whether Indian Institute of Tropical Meteorology has conducted any study in the recent past on the changing pattern of south-west monsoon in the country;

(b) if so, the outcome of such study; and

(c) the corrective measures suggested by the Institute in this regard?

**Answer**

THE MINISTER OF STATE (INDEPENDENT CHARGE) MINISTRY OF SCIENCE AND TECHNOLOGY, MINISTRY OF EARTH SCIENCES, MINISTER OF STATE IN THE PRIME MINISTER'S OFFICE, MINISTER OF STATE IN THE MINISTRY OF PERSONNEL, PUBLIC GRIEVANCES & PENSIONS AND MINISTER OF STATE IN THE MINISTRY OF PARLIAMENTARY AFFAIRS (SHRI PRITHVIRAJ CHAVAN)

(a) Yes Madam.

(b) The research studies carried out so far at the Indian Institute of Tropical Meteorology (IITM), Pune indicate that the south-west monsoon rainfall over the country has decreased by nearly 4.7% during the period 1965-2006 as compared to the earlier period (1931-1964). Further, a significant increasing trend in the frequency and magnitude of high rainfall events (greater than 10cm/day) and a significant decreasing trend in the frequency of moderate events (1-5cm/day) are noticed.

(c) Continuous R & D efforts are underway to comprehensively understand the causes for the aforementioned changes in the southwest monsoon rainfall and to improve the rainfall predictions in all time scales.