

**GOVERNMENT OF INDIA
EARTH SCIENCES
LOK SABHA**

UNSTARRED QUESTION NO:1950
ANSWERED ON:11.08.2011
ABNORMAL WEATHER PATTERN
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Will the Minister of EARTH SCIENCES be pleased to state:

- (a) whether the Government is aware of the abnormal weather pattern prevailing in the country over the recent years;
- (b) if so, the details thereof along with the areas most affected by such conditions and the reasons therefor;
- (c) whether any action plan has been chalked out to tackle this adverse impact of abnormal weather condition; and
- (d) if so, the details thereof?

Answer

MINISTER OF STATE IN THE MINISTRY OF PLANNING, MINISTER OF STATE IN THE MINISTRY OF SCIENCE AND TECHNOLOGY AND MINISTER OF STATE IN THE MINISTRY OF EARTH SCIENCES(SHRI ASHWANI KUMAR)

(a) Yes Madam.

(b) The Government is monitoring the variability of the weather phenomena and development of abnormal weather pattern like drought, flood, flash flood, cyclone, rain induced landslides, heat and cold waves, etc. on a continuous basis. Records of past weather events show that extreme values in respect of heavy rainfall, maximum and minimum temperatures, seasonal rainfall etc. remained unsurpassed in many cases. Areas influenced by the abnormal weather pattern change as per the interannual and intra-seasonal weather and climate variability.

Heavy rain events (>10 cm/day) over central India are increasing at about 1%/year while weak and moderate events are decreasing at about the same rate over the past 50 years. The extreme rain events which are becoming more intense in recent years are localized and could be part of the natural variability of the monsoon system. No such pattern is discerned in respect of other weather phenomena.

(c) Yes Madam.

(d) India Meteorological Department (IMD) is enhancing its observational network under the modernization plan by installing a network of Doppler Weather Radars (DWR), Automatic Weather Stations (AWS), Automatic Rain Gauge Stations (ARGS), etc. for monitoring abnormal weather patterns and upgrading its forecasting capabilities., so that advance warning can be provided to National Disaster Management Authority (NDMA), Ministry of Home Affairs, and Ministry of Agriculture to tackle the impacts of the adverse and extreme weather phenomena.

In order to capture the characteristics of the changing weather in real time, state-of-the-art 24X7 monitoring system comprising 10-DWRs, located at Agartala, Chennai, Delhi, Hyderabad, Kolkata, Machilipatnam, Mumbai, Nagpur, Patna and Visakhapatnam is made functional. Additional DWRs at Lucknow, Patiala and Mohanbari are under commissioning. Current weather information is collected through 605Nos. of AWS and 360 Nos. of ARGS made functional across the country.