



Dated: 01 November 2018

PRESS RELEASE

Subject: Change of Weather Conditions over North West India

Current Weather Situations

- ❖ A western disturbance as an upper air cyclonic circulation extending up to 3.1 Km above mean sea level lies over Pakistan and neighbourhood with a trough aloft with its axis at 5.8 Km above mean sea level roughly along Longitude 65°E to the north of Latitude 26°N.
- ❖ The western disturbance is also supported by favourable diagnostic conditions such as moderate upper air divergence, lower level convergence and vorticity.

Forecast of Weather Conditions during next 3-4 days:

- The western disturbance would affect western Himalayan region till 4 November. It is also likely to affect plains of north west India during the same period.
- This western disturbance is likely to induce an upper air cyclonic circulation over Punjab and Haryana in the lower troposphere during 2 to 4 November.

Weather Forecast:

- Light to moderate Rain/Snow (2-4 cm equivalent water) is very likely at most places over Jammu & Kashmir and Himachal Pradesh; Light Rain/Snow (1-2 cm) over Uttarakhand.
- Light / very Light rainfall also likely over northern parts of Punjab, Haryana and west Uttar Pradesh during 2 to 4 November.
- No fall in temperatures likely till 3 November, and thereafter the minimum temperature would fall by 2-4°C over plains of northwest India.

Weather Forecast for Delhi NCR:

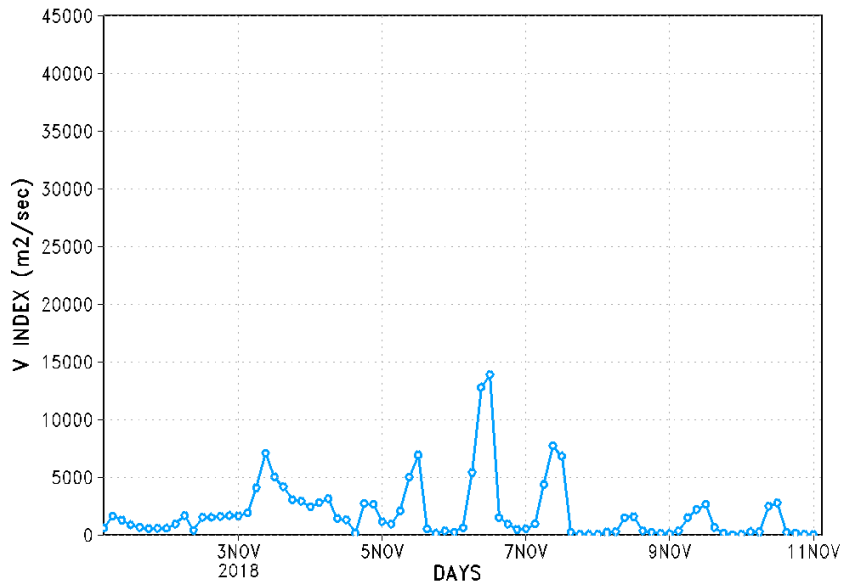
- Partly cloudy conditions during 2 to 4 November.
- Winds of the order of 5-10 kmph with easterly/ southerly component.
- Analysis of IMD's high resolution Global Numerical Weather Prediction System products suggests the following conditions from 3 November onwards (**Annexure**):
 1. Increase in the Ventilation Index.
 2. Increase in the Mixing Height.
 3. Increase in the Boundary Layer wind speed.

The above conditions and the induced cyclonic circulation suggest that atmosphere is likely to be unstable over the region which would result in mixing of the pollutants and improved air quality till 5 November.

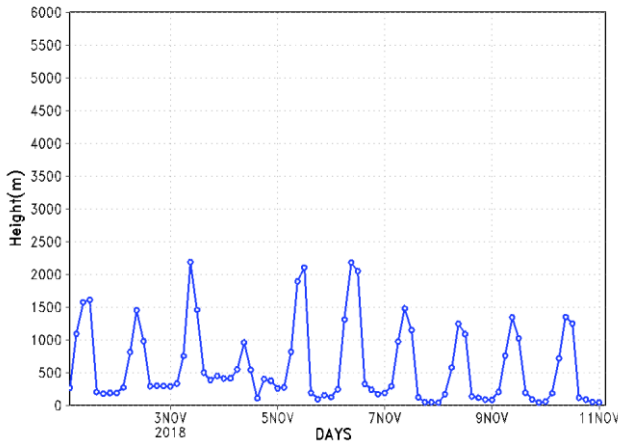


ANNEXURE

IMD GFS(T1534) Ventilation Index (m²/sec) Forecast
 based on 00 UTC of 01-11-2018 valid for the next 10 DAYS



IMD GFS(T1534) Mixing Height (m) Forecast
 based on 00 UTC of 01-11-2018 valid for the next 10 DAYS



IMD GFS(T1534) PBL Mean wind speed (m/s) Forecast:Delhi
 based on 00 UTC of 01-11-2018 valid for the next 10 DAYS

