



## **Wind Pattern and Ventilation Index Forecast**

Air mass inflow forecast in Delhi along with predicted ventilation coefficient and weather forecast is as follows:

1. The air quality over Delhi-NCT is likely to remain in Moderate category on 25.06.2021. PM10 will be the predominant pollutant owing to strong surface winds favourable for raising dust concentration locally and transport of dust from arid regions. The air quality is likely to improve marginally but remain in Moderate to Satisfactory category on 26.06.2021 and 27.06.2021. The Outlook for subsequent 5 Days: The air quality is likely to remain largely in Satisfactory to Moderate category.
2. The predominant surface wind is likely to be coming from Northwest directions of Delhi with wind speed 04-16 kmph and partly cloudy sky with very light rain/thundershowers at a few places accompanied with gusty winds (speed 30-40 kmph) towards evening/night on 25.06.2021. The predominant surface wind is likely to be coming from Northwest directions of Delhi with wind speed 12-16 kmph and partly cloudy sky with possibility of very light rain/thundershowers on 26.06.2021. The predominant surface wind is likely to be coming from Northwest directions of Delhi with wind speed 16-20 kmph and partly cloudy sky with possibility of thundery development on 27.06.2021.
3. Predicted maximum mixing depth is likely to be approx. 4200 m on 25.06.2021, 3800 m on 26.06.2021 and 3750 m on 27.06.2021 over Delhi. Maximum Ventilation index is likely to be approx 32000 m<sup>2</sup>/s on 25.06.2021, 27000 m<sup>2</sup>/s on 26.06.2021 and 25500 m<sup>2</sup>/s on 27.06.2021. The ventilation index lower than 6000 m<sup>2</sup>/s with average wind speed less than 10 kmph is unfavourable or dispersion of pollutants.
4. Detailed forecast analysis and verification can be seen at <https://ews.tropmet.res.in>.
5. Air mass inflow in Delhi along with ventilation index is attached.



**Delhi/NCR forecast for next 7 days**  
**Date: 25.06.2021**

DATE	TEMPERATURE (°C)		DIRECTION/ WIND SPEED (KMPH)			WEATHER FORECAST
	MAX	MIN	0530-1130 (IST)	1130-1730 (IST)	1730-2330 (IST)	
25.06.2021	39	25.1	NW/04	NW/12	NNW/16	PARTLY CLOUDY SKY WITH LIGHT RAIN/THUNDERSHOWERS AT A FEW PLACES ACCOMPANIED WITH GUSTY WINDS (SPEED 30-40 KMPH) TOWARDS EVENING/NIGHT.
26.06.2021	37	28	NW/12	NW/16	NW/15	PARTLY CLOUDY SKY WITH POSSIBILITY OF VERY LIGHT RAIN/THUNDERSHOWERS.
27.06.2021	39	28	NW/16	NW/20	WNW/20	PARTLY CLOUDY SKY WITH POSSIBILITY OF THUNDERY DEVELOPMENT.
28.06.2021	40	29	NW/15	NW/18	NW/18	PARTLY CLOUDY SKY. STRONG SURFACE WINDS (SPEED 20-30 KMPH) DURING THE DAY
29.06.2021	41	30	WNW/24	WNW/22	W/24	PARTLY CLOUDY SKY. STRONG SURFACE WINDS (SPEED 20-30 KMPH) DURING THE DAY
30.06.2021	41	30	W/20	W/24	W/20	PARTLY CLOUDY SKY. STRONG SURFACE WINDS (SPEED 20-30 KMPH) DURING THE DAY
01.07.2021	40	29	W/20	W/18	W/18	PARTLY CLOUDY SKY. STRONG SURFACE WINDS (SPEED 20-30 KMPH) DURING THE DAY

**TEMPERATURE NORMALS**

DATE	MAX	MIN
25 JUNE-29 JUNE	37.4	28.2
30 JUNE-04 JULY	37.3	27.3

**LEGEND:**

**RAINFALL INTENSITY**

Terminology	Rainfall Range in mm	Terminology	Rainfall Range in mm
Very Light Rainfall	Trace – 2.4	Heavy Rainfall	64.5 – 115.5
Light rainfall	2.5 – 15.5	Very Heavy Rainfall	115.6 – 204.4
Moderate Rainfall	15.6 – 64.4	Extremely Heavy Rainfall	>= 204.5

**CLOUD AMOUNT**

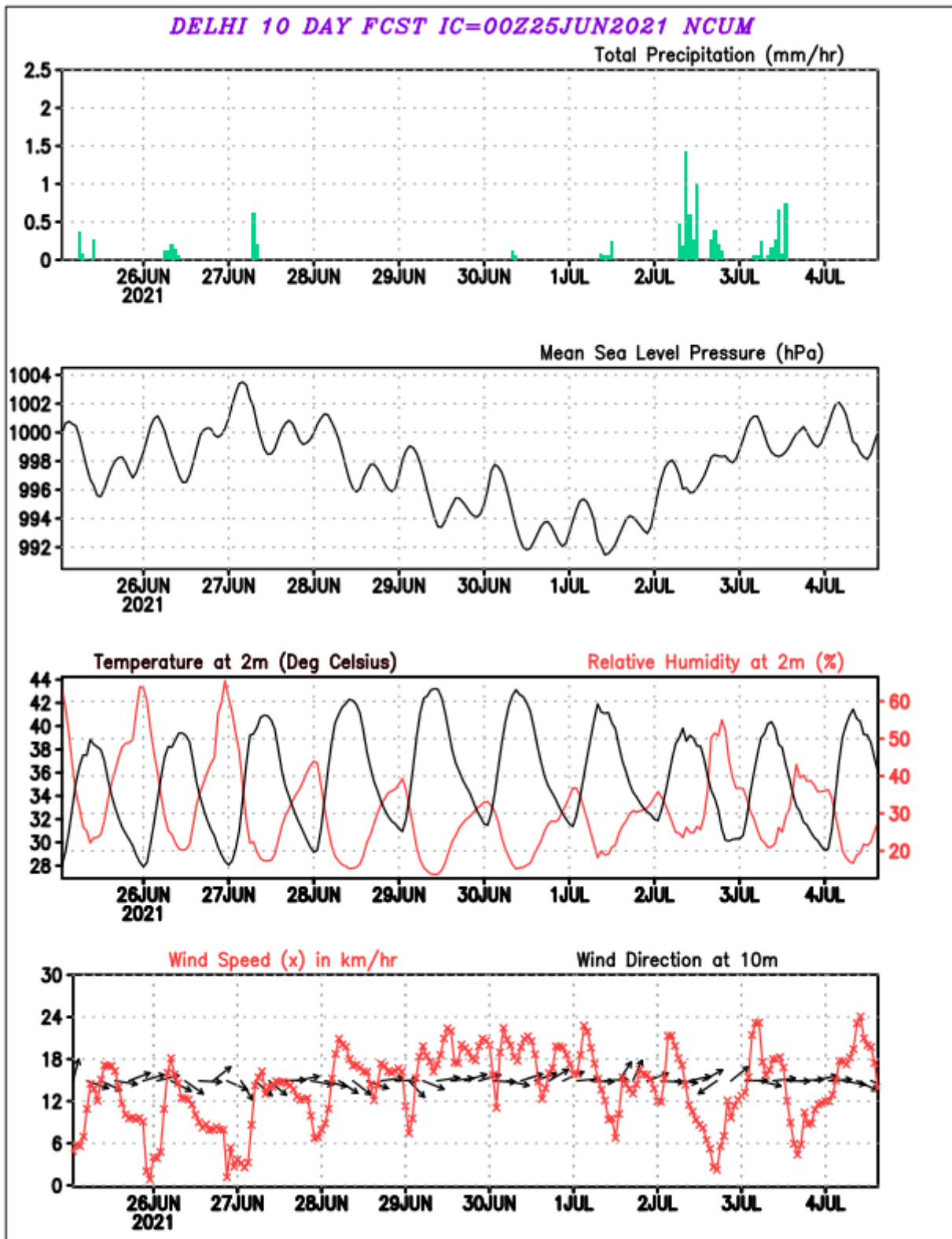
Terminology	Amount of Cloud in Octa
Clear Sky	0
Mainly clear sky	1 – 2
Partly cloudy sky	3 – 4
Generally cloudy sky	5 – 7
Overcast	8

**PROBABILISTIC FORECAST**

Terms	Probability of Occurrence (%)
Unlikely	<25
Likely	25 - 50
Very Likely	50 – 75
Most Likely	>75



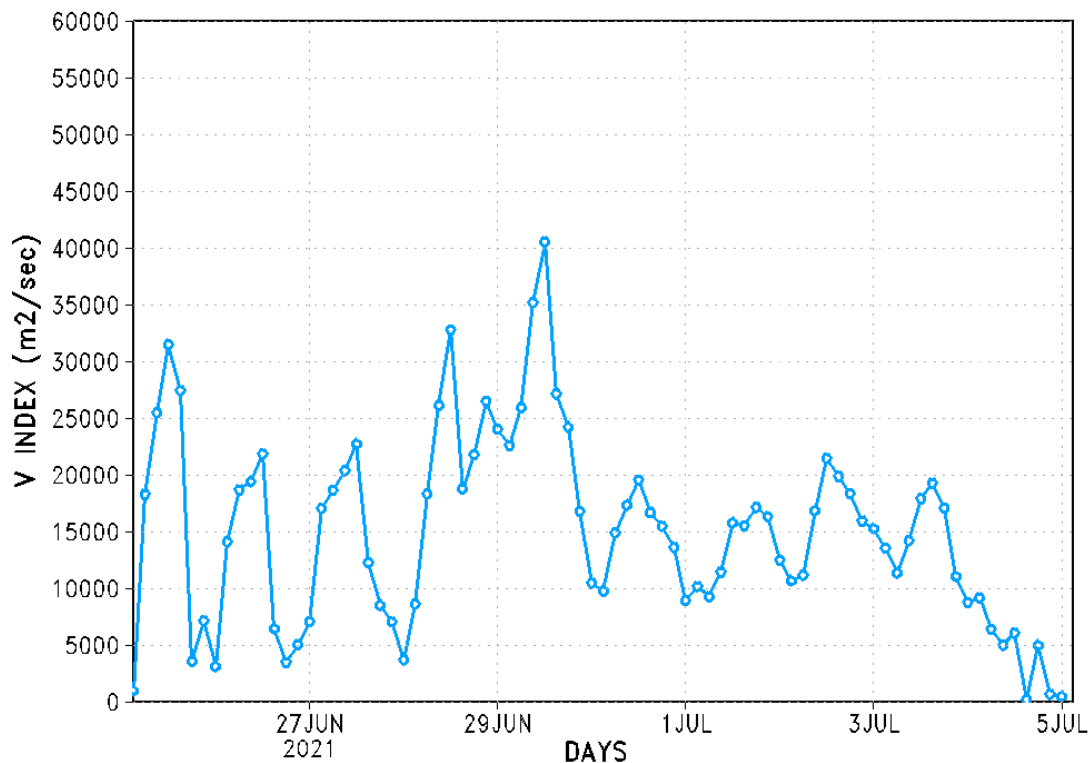
# Meteogram/EPsgram (10 days)



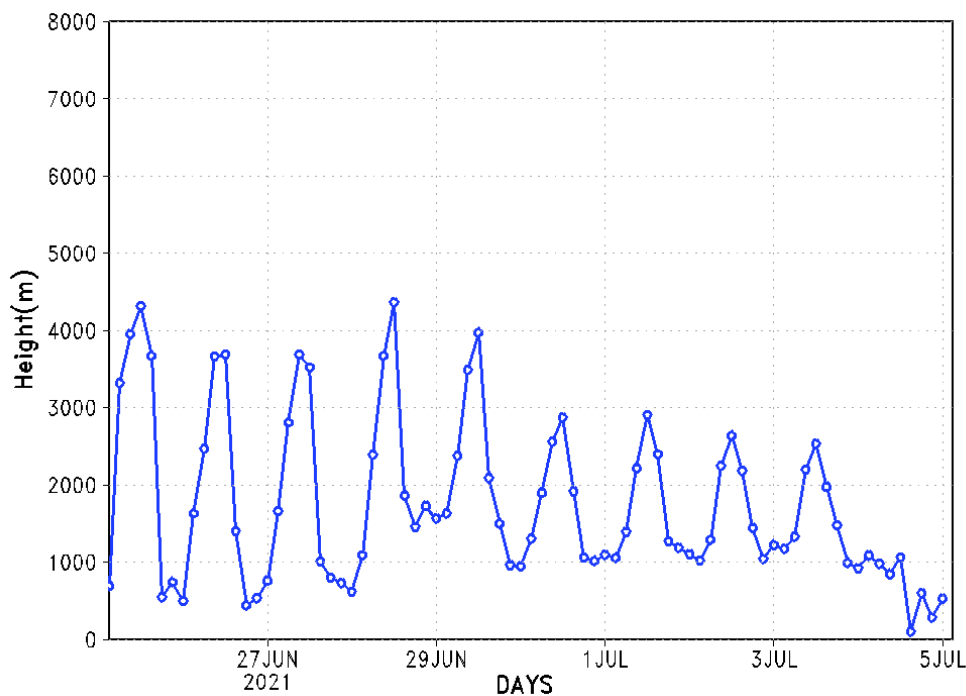


# Forecast of Ventilation Index and Mixing Height

IMD GFS(T1534) Ventilation Index (m<sup>2</sup>/sec) Forecast  
based on 00 UTC of 25-06-2021 valid for the next 10 DAYS



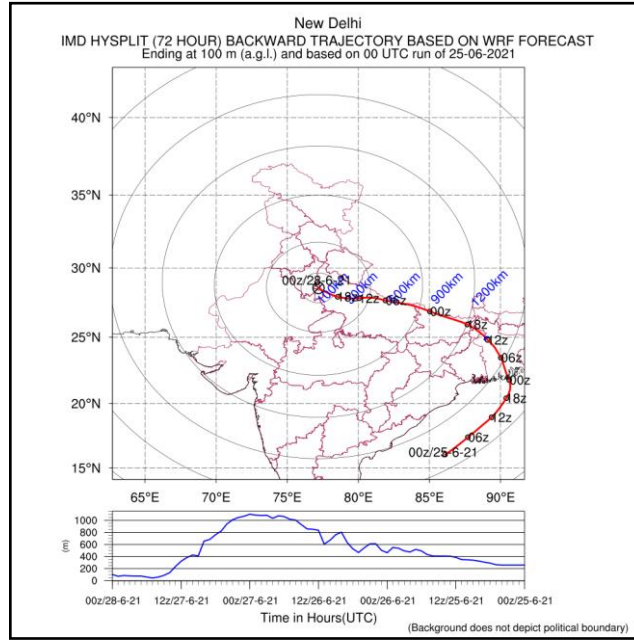
IMD GFS(T1534) Mixing Height (m) Forecast  
based on 00 UTC of 25-06-2021 valid for the next 10 DAYS



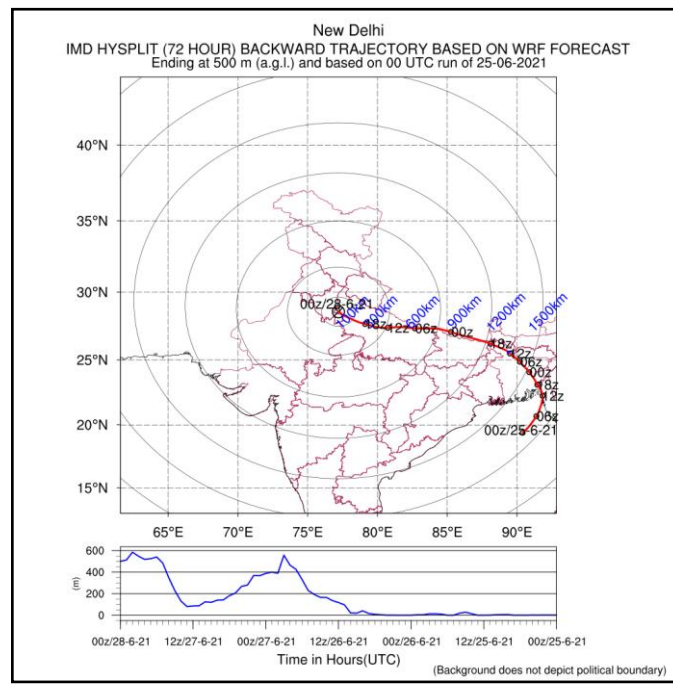


# Wind Pattern Forecast

## At 100m Height



## At 500m Height





# At 1000m Height

