



## **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 28.06.2021. 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 deteriorate marginally but remain in Moderate category on 29.06.2021 and 30.06.2021. 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 04-10 kmph and partly cloudy sky on 28.06.2021. The predominant surface wind is likely to be coming from Northwest directions of Delhi with wind speed 20-24 kmph partly cloudy sky and strong surface winds (speed 20-30 kmph) during the day on 29.06.2021. The predominant surface wind is likely to be coming from West directions of Delhi with wind speed 12-28 kmph, partly cloudy sky and strong surface winds (speed 20-30 kmph) during the day on 30.06.2021.
3. Predicted maximum mixing depth is likely to be approx. 3500 m on 28.06.2021, 4400 m on 29.06.2021 & 3750 m on 30.06.2021 over Delhi. Maximum Ventilation index is likely to be approx. 17500 m<sup>2</sup>/s on 28.06.2021, 50000 m<sup>2</sup>/s on 29.06.2021 and 31500 m<sup>2</sup>/s on 30.06.2021. 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: 28.06.2021

DATE	TEMPERATURE (°C)		DIRECTION/ WIND SPEED (KMPH)			WEATHER FORECAST	
	MAX	MIN	0530-1130 (IST)	1130-1730 (IST)	1730-2330 (IST)		
28.06.2021	40	27.6	SE/04	NW/10	NW/10	PARTLY CLOUDY SKY.	
29.06.2021	40	27	NNW/20	NW/24	W/20	PARTLY CLOUDY SKY. STRONG SURFACE WINDS (SPEED 20-30 KMPH) DURING THE DAY.	
30.06.2021	41	29	NW/20	W/12	W/28	PARTLY CLOUDY SKY. STRONG SURFACE WINDS (SPEED 20-30 KMPH) DURING THE DAY.	
01.07.2021	40	29	W/28	W/20	SW/16	PARTLY CLOUDY SKY WITH POSSIBILITY OF THUNDERY DEVELOPMENT.	
02.07.2021	39	28	SW/16	SW/16	SW/04	PARTLY CLOUDY SKY WITH LIGHT RAIN/ THUNDERSHOWERS AT FEW PLACES.	
03.07.2021	38	29	W/16	W/16	W/16	PARTLY CLOUDY SKY WITH VERY LIGHT RAIN/ THUNDERSHOWERS AT ISOLATED PLACES.	
04.07.2021	37	28	W/16	W/20	NW/14	PARTLY CLOUDY SKY WITH VERY LIGHT RAIN/ THUNDERSHOWERS AT ISOLATED PLACES.	

**LEGEND:**

**RAINFALL INTENSITY**

TEMPERATURE NORMALS		
DATE	MAX	MIN
27 JUNE-29 JUNE	37.4	28.2
30 JUNE-04 JULY	37.3	27.3

**CLOUD AMOUNT**

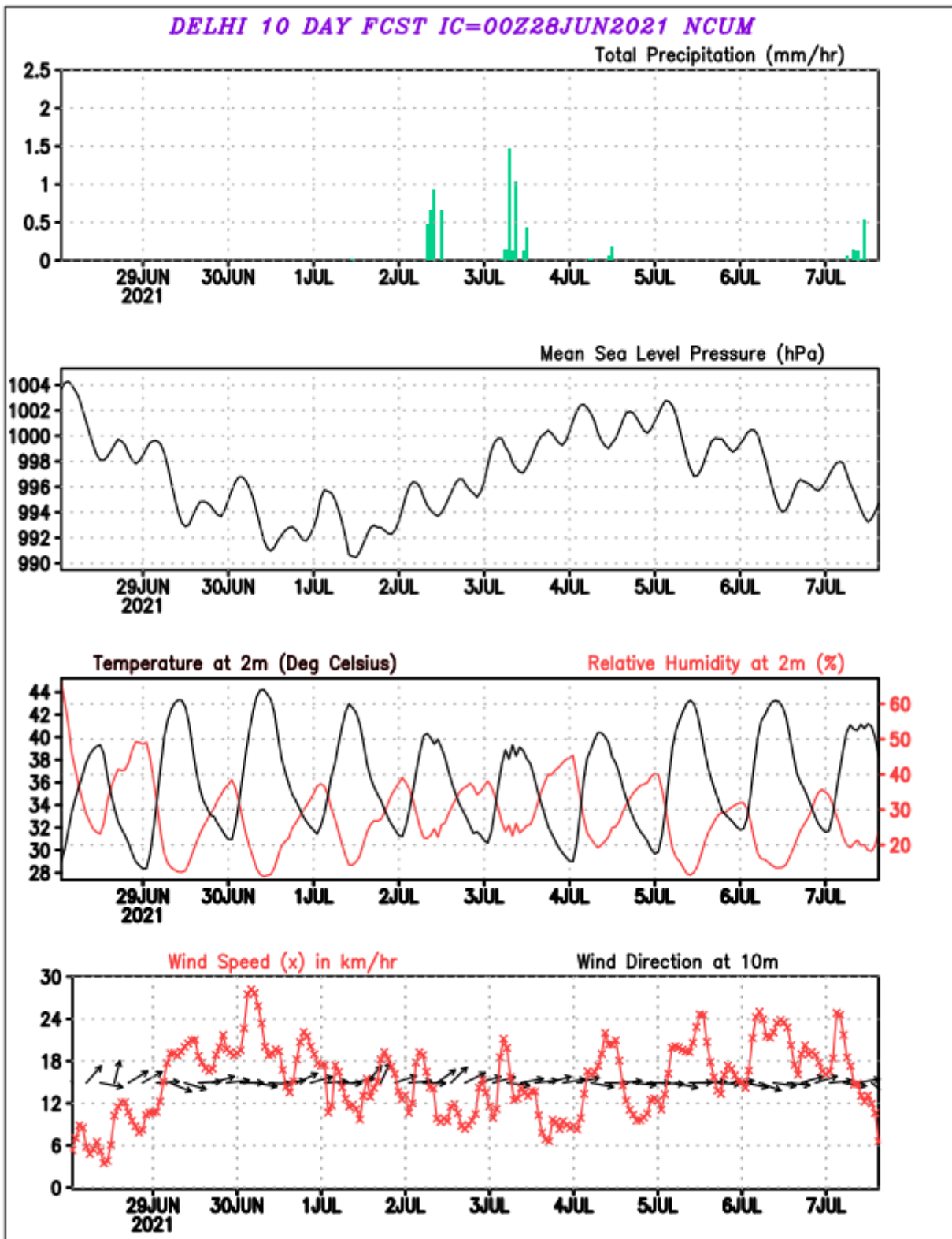
**PROBABILISTIC FORECAST**

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

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



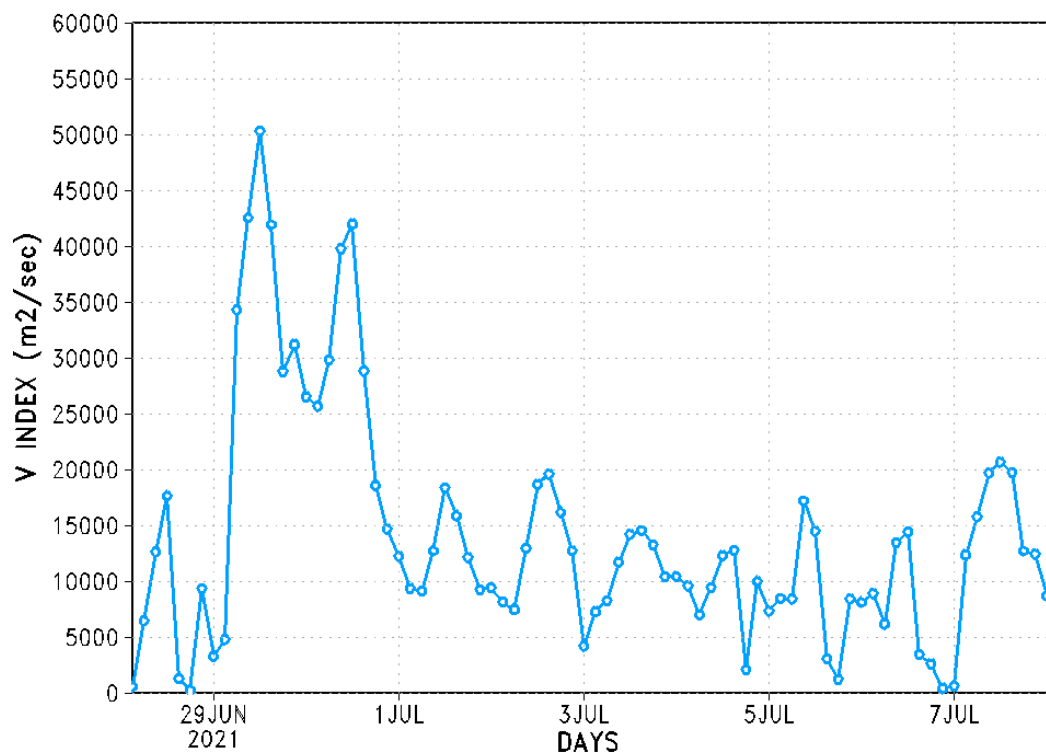
# Meteogram/EPsgram (10 days)



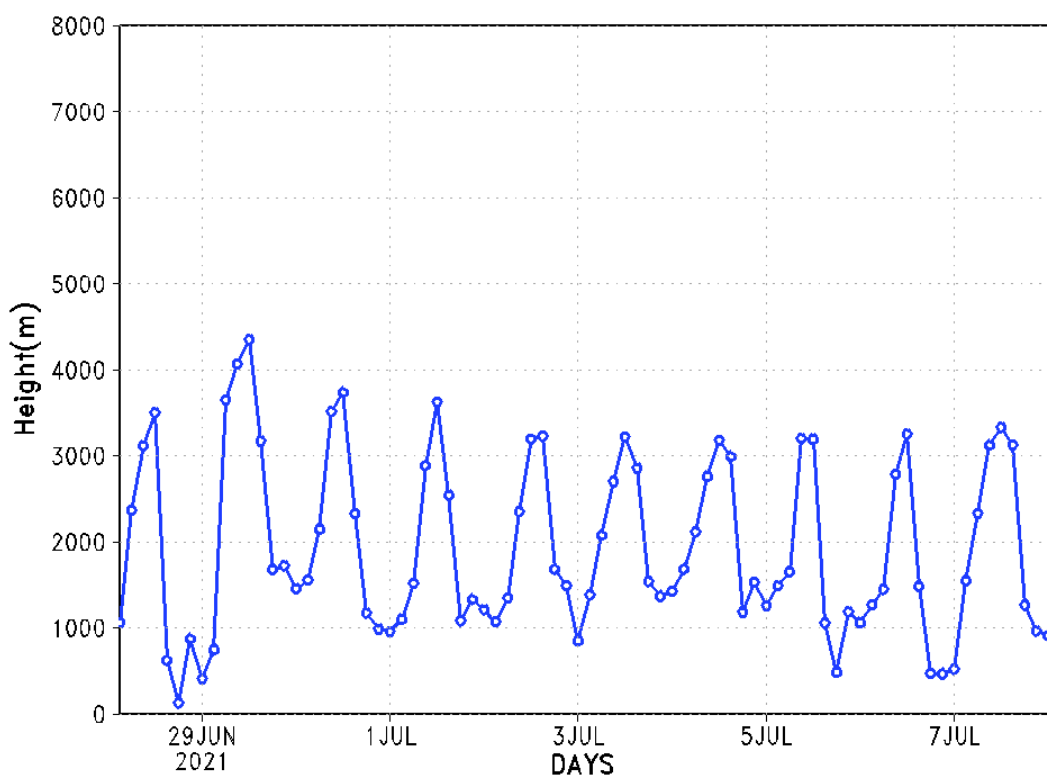


# Forecast of Ventilation Index and Mixing Height

IMD GFS(T1534) Ventilation Index (m<sup>2</sup>/sec) Forecast  
based on 00 UTC of 28-06-2021 valid for the next 10 DAYS



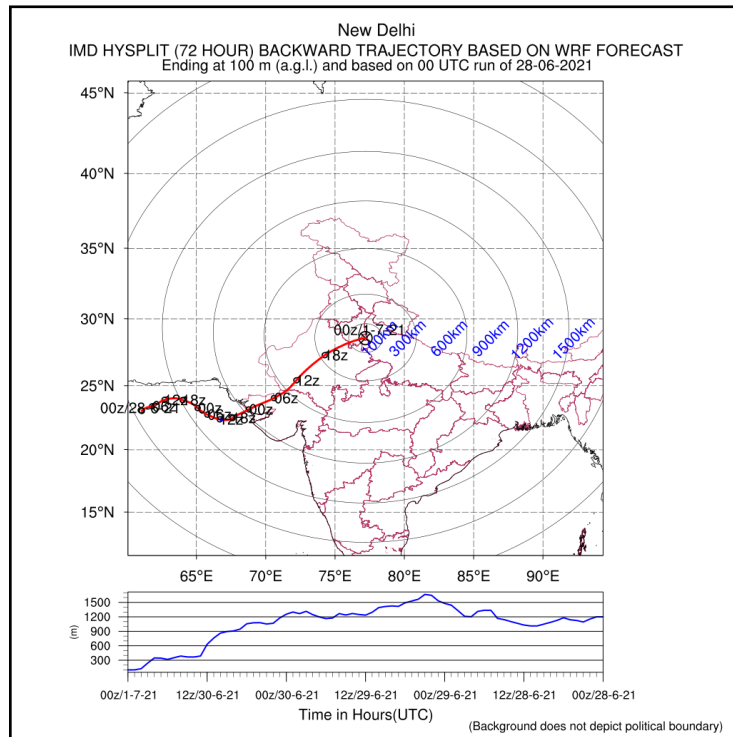
IMD GFS(T1534) Mixing Height (m) Forecast  
based on 00 UTC of 28-06-2021 valid for the next 10 DAYS



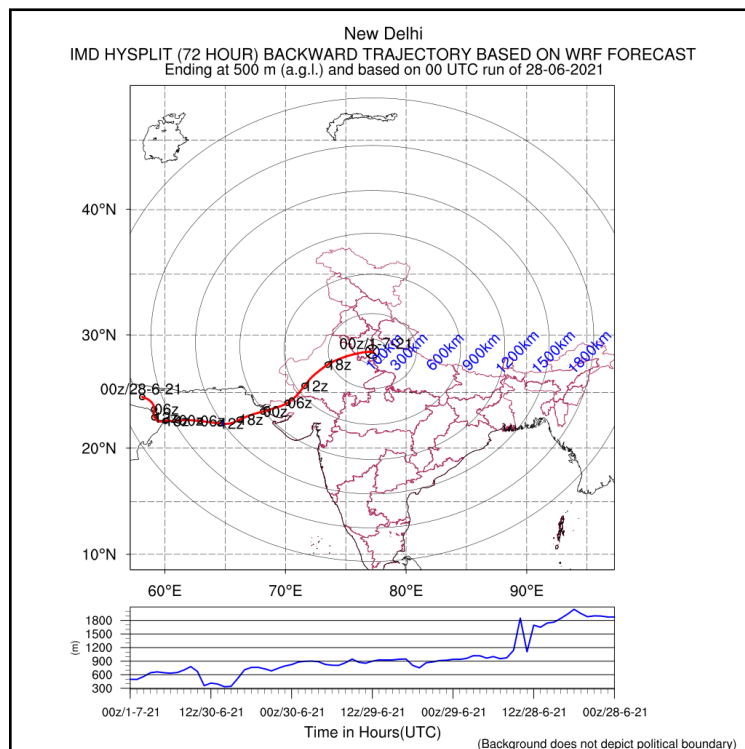


# Wind Pattern Forecast

## At 100m Height



## At 500m Height





## At 1000m Height

