



## **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 Satisfactory to Moderate category on 22.06.2021. The air quality is likely to deteriorate marginally but remain in Moderate category on 23.06.2021 and 24.06.2021. 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 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/Southwest directions of Delhi with wind speed 10-15 kmph and partly cloudy sky on 22.06.2021. The predominant surface wind is likely to be coming from Northwest directions of Delhi with wind speed 12-20 kmph and partly cloudy sky on 23.06.2021. The predominant surface wind is likely to be coming from West-Northwest directions of Delhi with wind speed 24-28 kmph, partly cloudy sky and strong surface winds (speed 20-30 kmph) during the day on 24.06.2021.
3. Predicted maximum mixing depth is likely to be approx. 3800 m on 22.06.2021, 4400 m on 23.06.2021 and 4300 m on 24.06.2021 over Delhi. Maximum Ventilation index is likely to be approx 27000 m<sup>2</sup>/s on 22.06.2021, 29500 m<sup>2</sup>/s on 23.06.2021 and 39000 m<sup>2</sup>/s on 24.06.2021. 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: 22.06.2021

DATE	TEMPERATURE (°C)		DIRECTION/ WIND SPEED (KMPH)			WEATHER FORECAST	
	MAX	MIN	0530-1130 (IST)	1130-1730 (IST)	1730-2330 (IST)		
22.06.2021	38	27.4	N/10	NW/10	SW/15	PARTLY CLOUDY SKY.	
23.06.2021	39	29	NW/20	NW/20	NW/12	PARTLY CLOUDY SKY.	
24.06.2021	40	28	WNW/28	WNW/25	WNW/24	PARTLY CLOUDY SKY. STRONG SURFACE WINDS (SPEED 20-30 KMPH) DURING THE DAY	
25.06.2021	39	29	WNW/26	WNW/24	W/20	PARTLY CLOUDY SKY WITH POSSIBILITY OF THUNDERY DEVELOPMENT.	
26.06.2021	38	28	WNW/15	WNW/15	WSW/10	PARTLY CLOUDY SKY WITH VERY LIGHT RAIN/THUNDERSHOWERS ACCOMPANIED WITH GUSTY WINDS (SPEED 30-40 KMPH).	
27.06.2021	38	28	W/20	W/18	WNW/15	PARTLY CLOUDY SKY WITH POSSIBILITY OF THUNDERY DEVELOPMENT.	
28.06.2021	39	29	W/20	W/20	W/16	PARTLY CLOUDY SKY. STRONG SURFACE WINDS (SPEED 20-30 KMPH) DURING THE DAY	

### TEMPERATURE NORMALS

DATE	MAX	MIN
22 JUNE-24 JUNE	38.6	28.2
25 JUNE-29 JUNE	37.4	28.2

#### 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

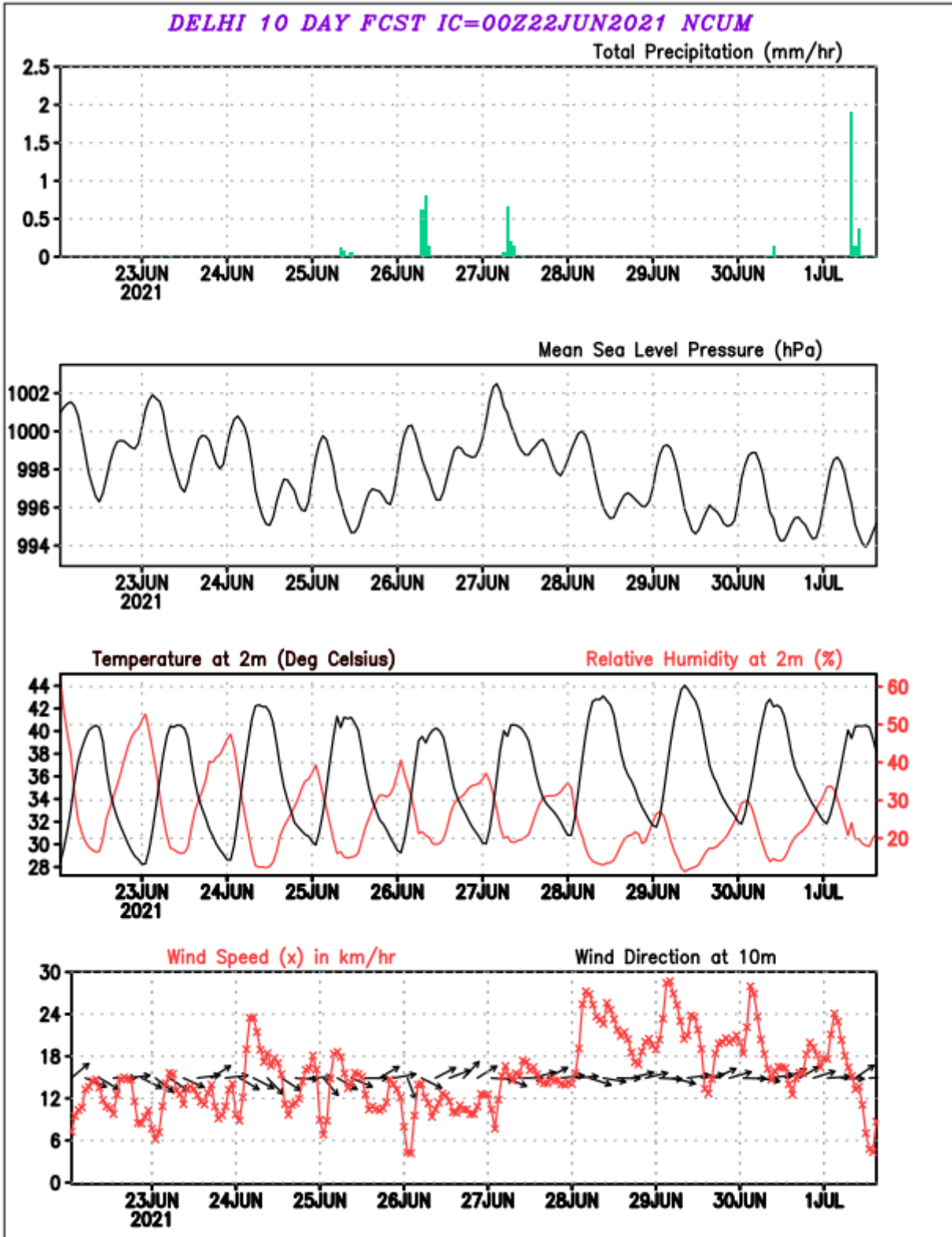
Terminology	Amount of Cloud in Octa
Clear Sky	0
Mainly clear sky	1 – 2
Partly cloudy sky	3 – 4
Generally cloudy sky	5 – 7
Overcast	8

#### PROBABILISTIC FORECAST

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



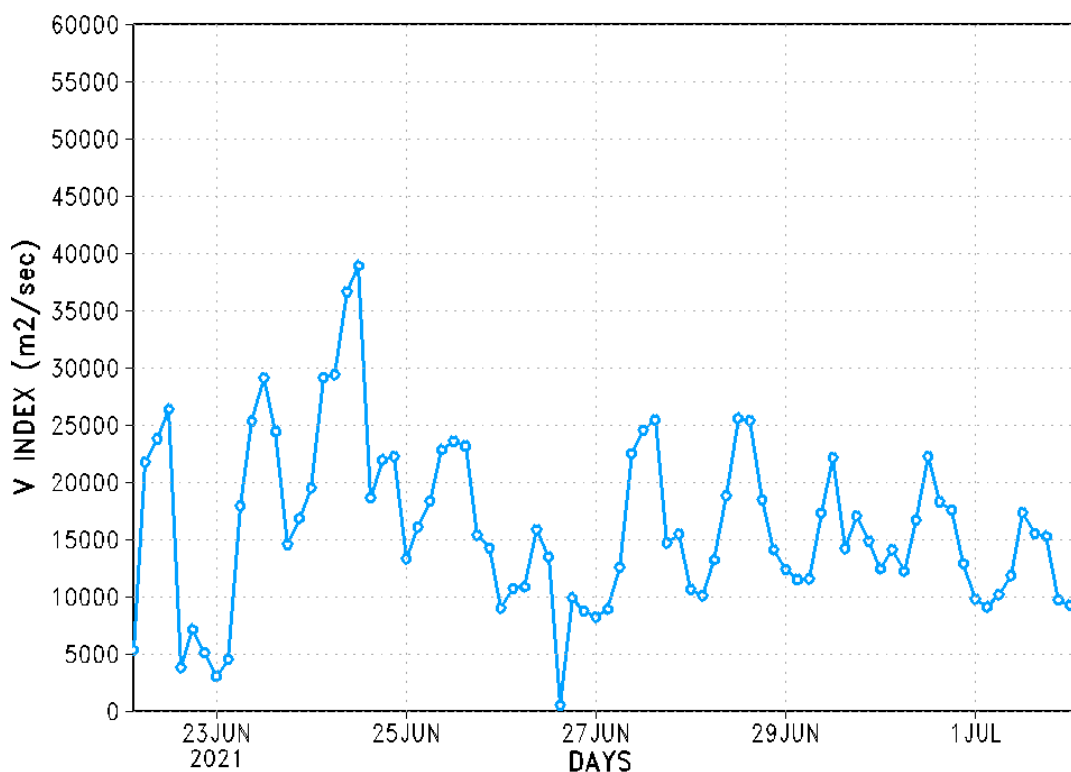
# Meteogram/EPsgram (10 days)



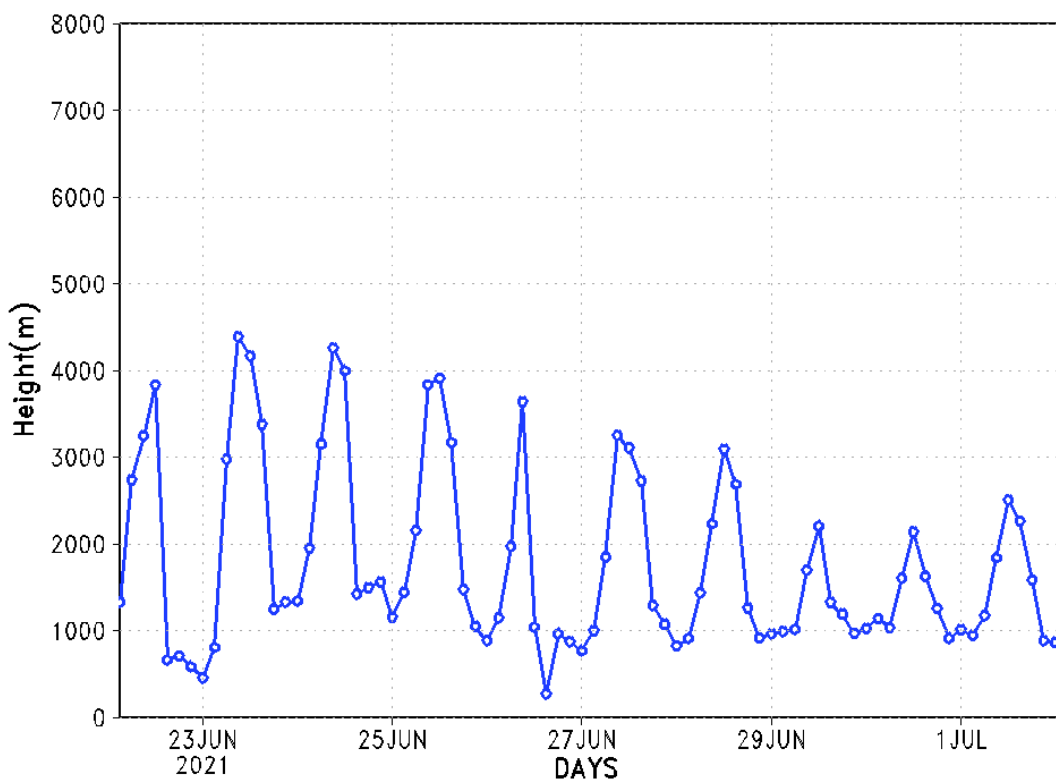


# Forecast of Ventilation Index and Mixing Height

IMD GFS(T1534) Ventilation Index (m<sup>2</sup>/sec) Forecast  
based on 00 UTC of 22-06-2021 valid for the next 10 DAYS



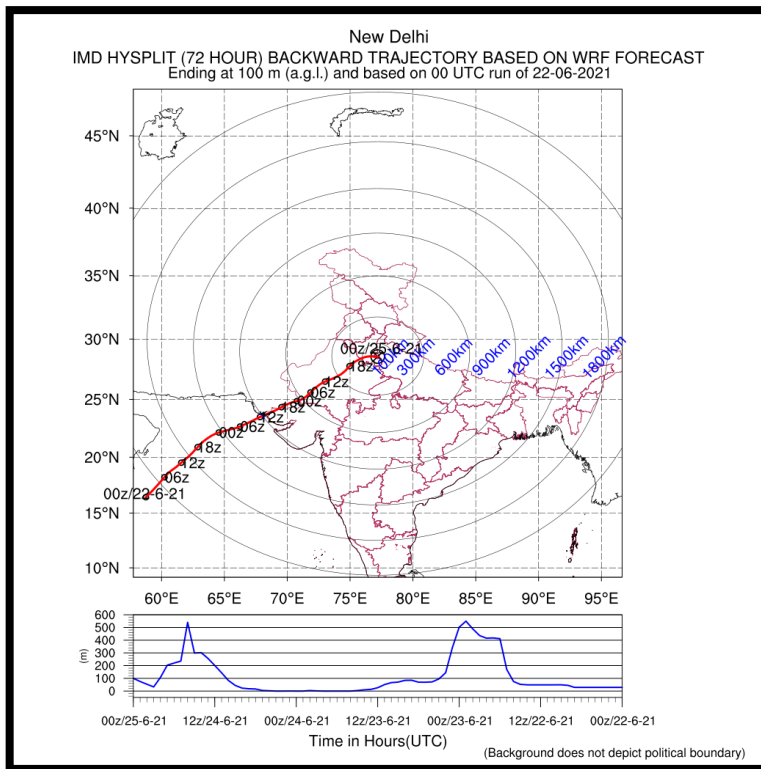
IMD GFS(T1534) Mixing Height (m) Forecast  
based on 00 UTC of 22-06-2021 valid for the next 10 DAYS



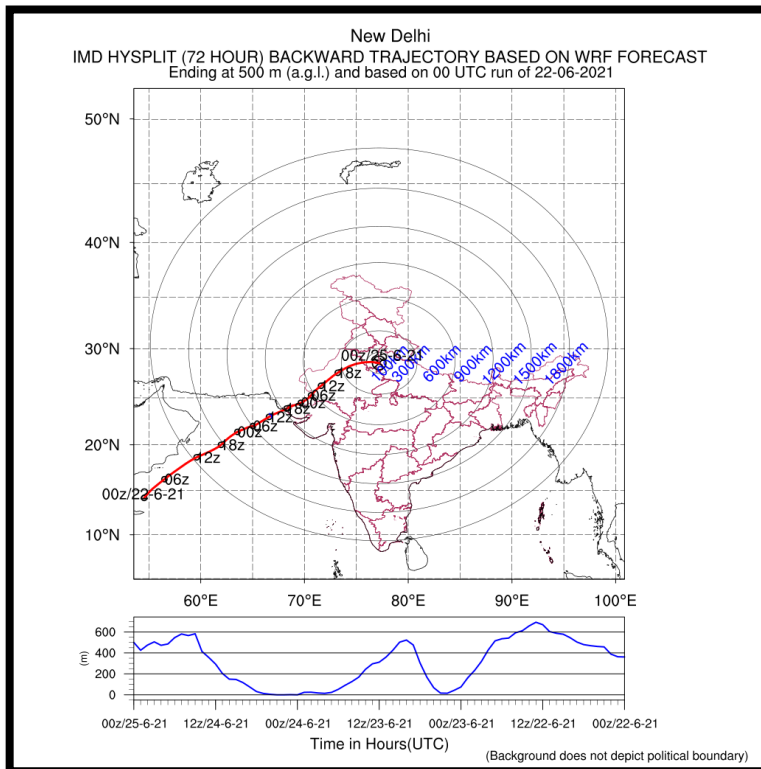


# Wind Pattern Forecast

## At 100m Height



## At 500m Height





# At 1000m Height

