










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 16.06.2021 and Moderate to Satisfactory category on 17.06.2021 and 18.06.2021. The predominant pollutant will be PM10 as strong winds may raise dust locally and transport of dust from nearby regions. The Outlook for subsequent 5 Days: The air quality is likely to remain in Moderate to satisfactory category.
2. The predominant surface wind is likely to be coming from East/Northeast direction of Delhi with wind speed of 10-20 kmph and generally cloudy sky with **light rain/thundershowers accompanied with gusty winds (speed 30-40 kmph) on 16.06.2021**. The predominant surface wind is likely to be coming from variable direction of Delhi with wind speed of 10-16 kmph and partly cloudy sky with possibility of very light rain/thundershowers on 17.06.2021. The predominant surface wind is likely to be coming from Southeast direction of Delhi with wind speed of 10-16 kmph and partly cloudy sky on 18.06.2021.
3. Predicted maximum mixing depth is likely to be approx. 2000 m on 16.06.2021, 3300 m on 17.06.2021 and 3000 m on 18.06.2021 over Delhi. Maximum Ventilation index is likely to be approx. 4000 m²/s on 16.06.2021, 10000 m²/s on 17.06.2021 and 7000 m²/s on 18.06.2021. The ventilation index lower than 6000 m²/s with average wind speed less than 10 kmph is unfavourable or dispersion of pollutants.
4. The strong surface winds are favourable for raising dust locally and transport of dust from nearby region.
5. Detailed forecast analysis and verification can be seen at <https://ews.tropmet.res.in>.
6. Air mass inflow in Delhi along with ventilation index is attached.



Delhi/NCR forecast for next 7 days
Date: 16.06.2021

DATE	TEMPERATURE (°C)		DIRECTION/ WIND SPEED (KMPH)			WEATHER FORECAST
	MAX	MIN	0530-1130 (IST)	1130-1730 (IST)	1730-2330 (IST)	
16.06.2021	36	26.2	SE/10	E/14	NE/20	GENERALLY CLOUDY SKY WITH LIGHT RAIN/THUNDERSHOWERS ACCOMPANIED WITH GUSTY WINDS (SPEED 30-40 KMPH). 
17.06.2021	37	27	E/10	SE/12	NE/16	PARTLY CLOUDY SKY WITH POSSIBILITY OF VERY LIGHT RAIN/THUNDERSHOWERS. 
18.06.2021	38	28	SE/10	SE/14	SE/16	PARTLY CLOUDY SKY. 
19.06.2021	38	29	S/18	NW/22	SE/24	PARTLY CLOUDY SKY WITH POSSIBILITY OF VERY LIGHT RAIN/THUNDERSHOWERS. 
20.06.2021	39	29	SE/18	SE/24	NE/24	GENERALLY CLOUDY SKY WITH LIGHT RAIN/THUNDERSHOWERS ACCOMPANIED WITH GUSTY WINDS (SPEED 30-40 KMPH). 
21.06.2021	39	29	N/18	NW/26	N/22	PARTLY CLOUDY SKY. STRONG SURFACE WINDS (SPEED 20-30 KMPH) DURING THE DAY. 
22.06.2021	40	28	NW/16	NW/30	NW/28	PARTLY CLOUDY SKY. STRONG SURFACE WINDS (SPEED 20-30 KMPH) DURING THE DAY. 

TEMPERATURE NORMALS		
DATE	MAX	MIN
16 JUNE-19 JUNE	39.3	27.8
20 JUNE-24 JUNE	38.6	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

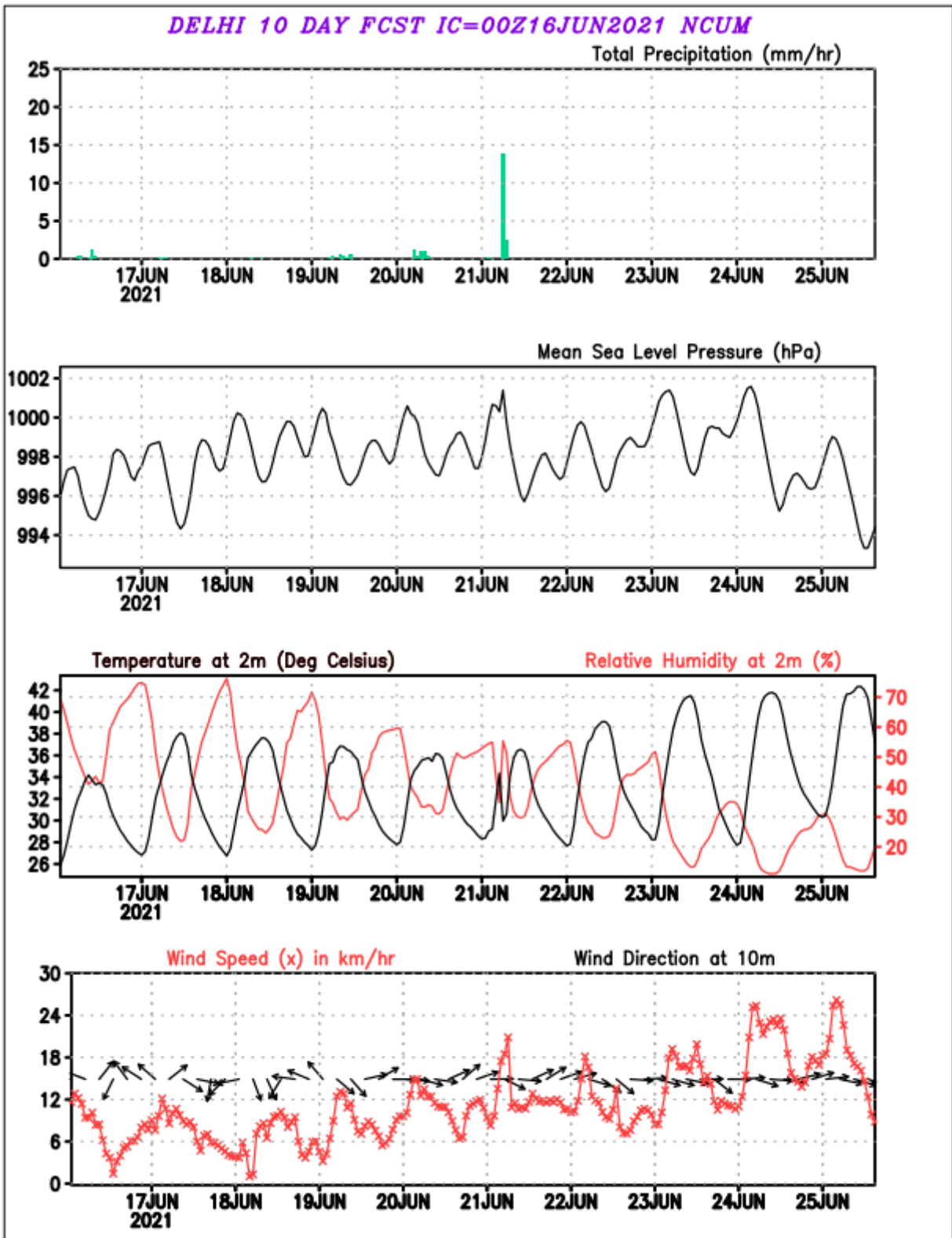
Terminology	Amount of Cloud in Octa
Clear Sky	0
Mainly clear sky	1 – 2
Partly cloudy sky	3 – 4
Generally cloudy sky	5 – 7
Overcast	8

PROBABILISTIC FORECAST

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



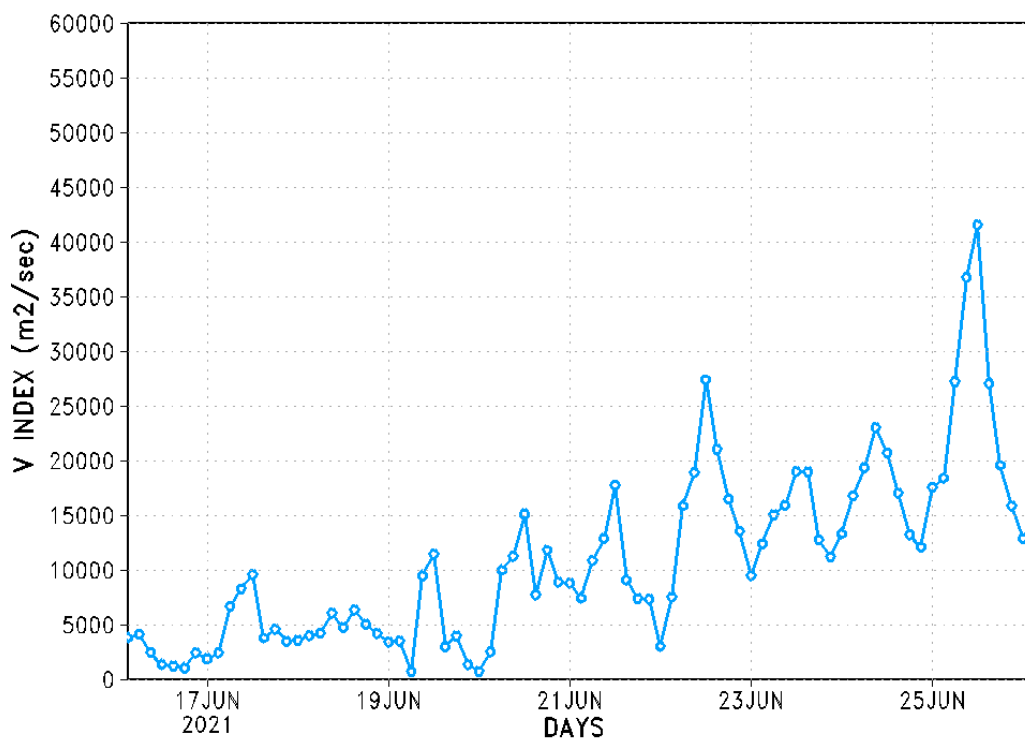
Meteogram/EPsgram (10 days)



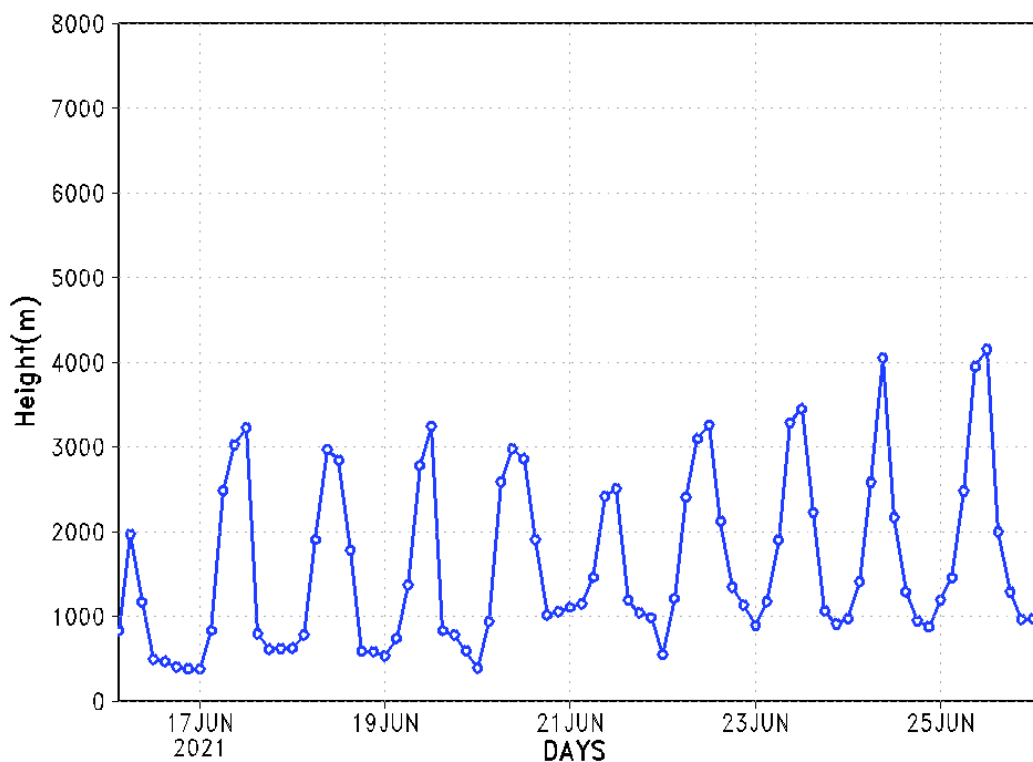


Forecast of Ventilation Index and Mixing Height

IMD GFS(T1534) Ventilation Index (m²/sec) Forecast
based on 00 UTC of 16-06-2021 valid for the next 10 DAYS



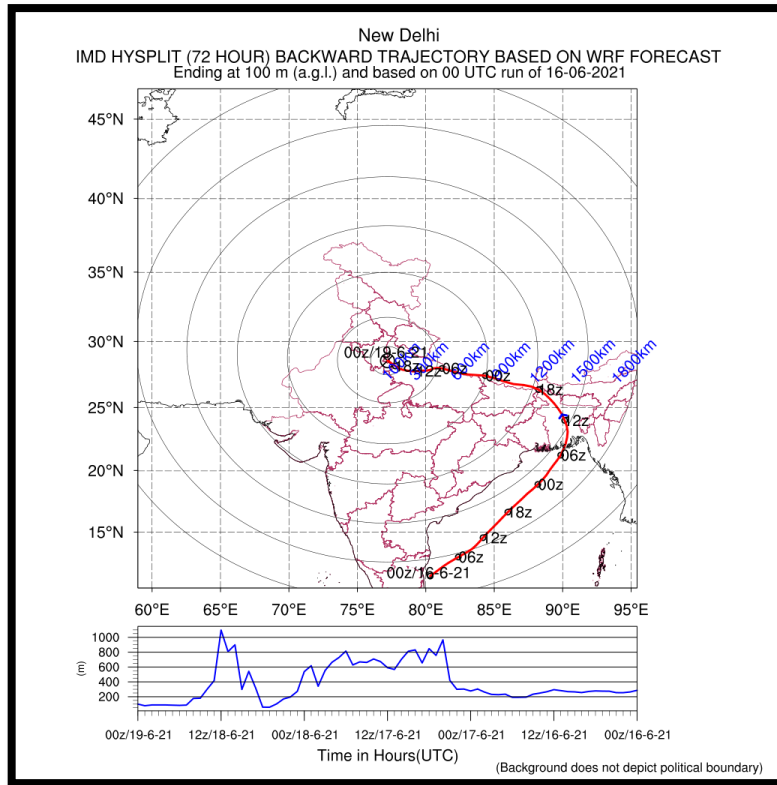
IMD GFS(T1534) Mixing Height (m) Forecast
based on 00 UTC of 16-06-2021 valid for the next 10 DAYS



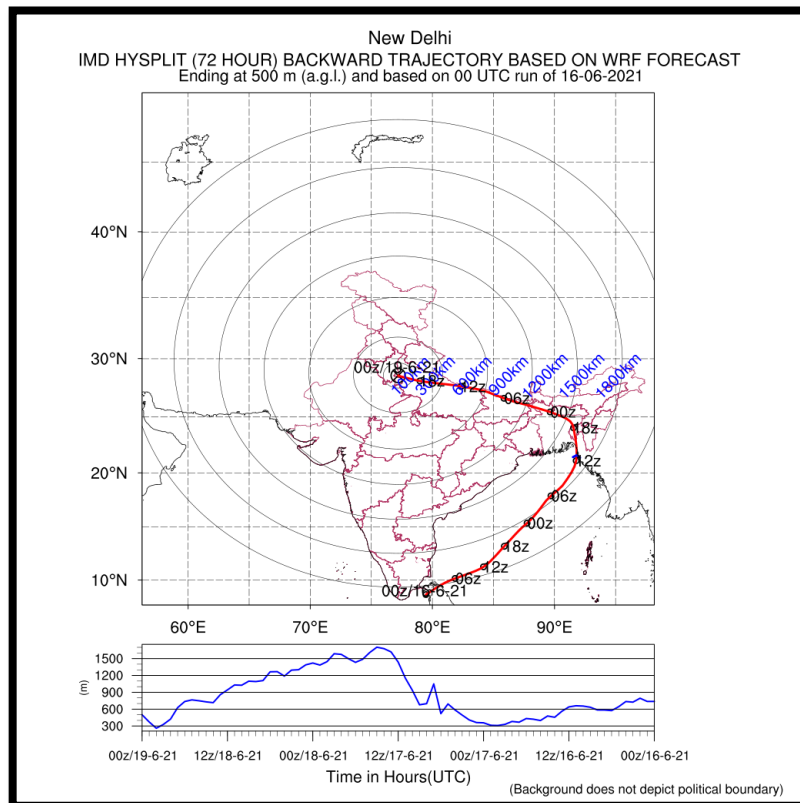


Wind Pattern Forecast

At 100m Height



At 500m Height





At 1000m Height

