










## **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 06.06.2021 and 07.06.2021. The air quality is likely to deteriorate and crossover from Moderate to Poor category on 08.06.2021. The predominant pollutant will be PM<sub>10</sub>. The strong surface winds are favorable for raising dust locally and transport of dust from nearby region. The Outlook for subsequent 5 Days: The air quality is likely to remain in Moderate to Poor category.
2. The predominant surface wind is likely to be coming from Southwest directions of Delhi with wind speed 10-16 kmph and partly cloudy sky with possibility of very light rain/drizzle on 06.06.2021. The predominant surface wind is likely to be coming from Northwest/West directions of Delhi with wind speed 16-28 kmph and partly cloudy sky with possibility of very light rain/drizzle on 07.06.2021. The predominant surface wind is likely to be coming from West directions of Delhi with wind speed upto 28 kmph, mainly clear sky and strong surface winds (speed 25-35 kmph) during the day on 08.06.2021.
3. Predicted maximum mixing depth is likely to be approx 3500 m on 06.06.2021 and 4100 m on 07.06.2021 and 4000 m on 08.06.2021 over Delhi. Maximum Ventilation index is likely to be approx 23000 m<sup>2</sup>/s on 06.06.2021 and 33000 m<sup>2</sup>/s on 07.06.2021 and 46000 m<sup>2</sup>/s on 08.06.2021. The ventilation index lower than 6000 m<sup>2</sup>/s with average wind speed less than 10 kmph is unfavorable for dispersion of pollutants.
4. The strong surface winds are favorable for raising dust locally and transport of dust from nearby region, thereby making PM<sub>10</sub> predominant pollutant.
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: 06.06.2021

DATE	TEMPERATURE (°C)		DIRECTION/ WIND SPEED (KMPH)			WEATHER FORECAST
	MAX	MIN	0530-1130 (IST)	1130-1730 (IST)	1730-2330 (IST)	
06.06.2021	39	24.0	SW/16	SW/16	SW/10	PARTLY CLOUDY SKY WITH POSSIBILITY OF VERY LIGHT RAIN/DRIZZLE. 
07.06.2021	41	25	NW/18	W/16	W/16	PARTLY CLOUDY SKY WITH POSSIBILITY OF VERY LIGHT RAIN/DRIZZLE. 
08.06.2021	42	28	W/28	W/28	W/28	MAINLY CLEAR SKY. STRONG SURFACE WINDS (SPEED 25-35 KMPH) DURING THE DAY. 
09.06.2021	41	28	W/30	W/28	W/30	MAINLY CLEAR SKY. STRONG SURFACE WINDS (SPEED 25-35 KMPH) DURING THE DAY. 
10.06.2021	41	28	W/28	W/25	W/28	MAINLY CLEAR SKY. STRONG SURFACE WINDS (SPEED 25-35 KMPH) DURING THE DAY. 
11.06.2021	40	27	W/28	W/26	W/28	PARTLY CLOUDY SKY. STRONG SURFACE WINDS (SPEED 20-30 KMPH) DURING THE DAY. 
12.06.2021	38	26	W/18	W/16	W/12	PARTLY CLOUDY SKY WITH POSSIBILITY OF VERY LIGHT RAIN/THUNDERSHOWERS. 

**TEMPERATURE NORMALS**

DATE	MAX	MIN
06 JUNE-09 JUNE	40.2	27.7
10 JUNE-14 JUNE	39.6	28.0

**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

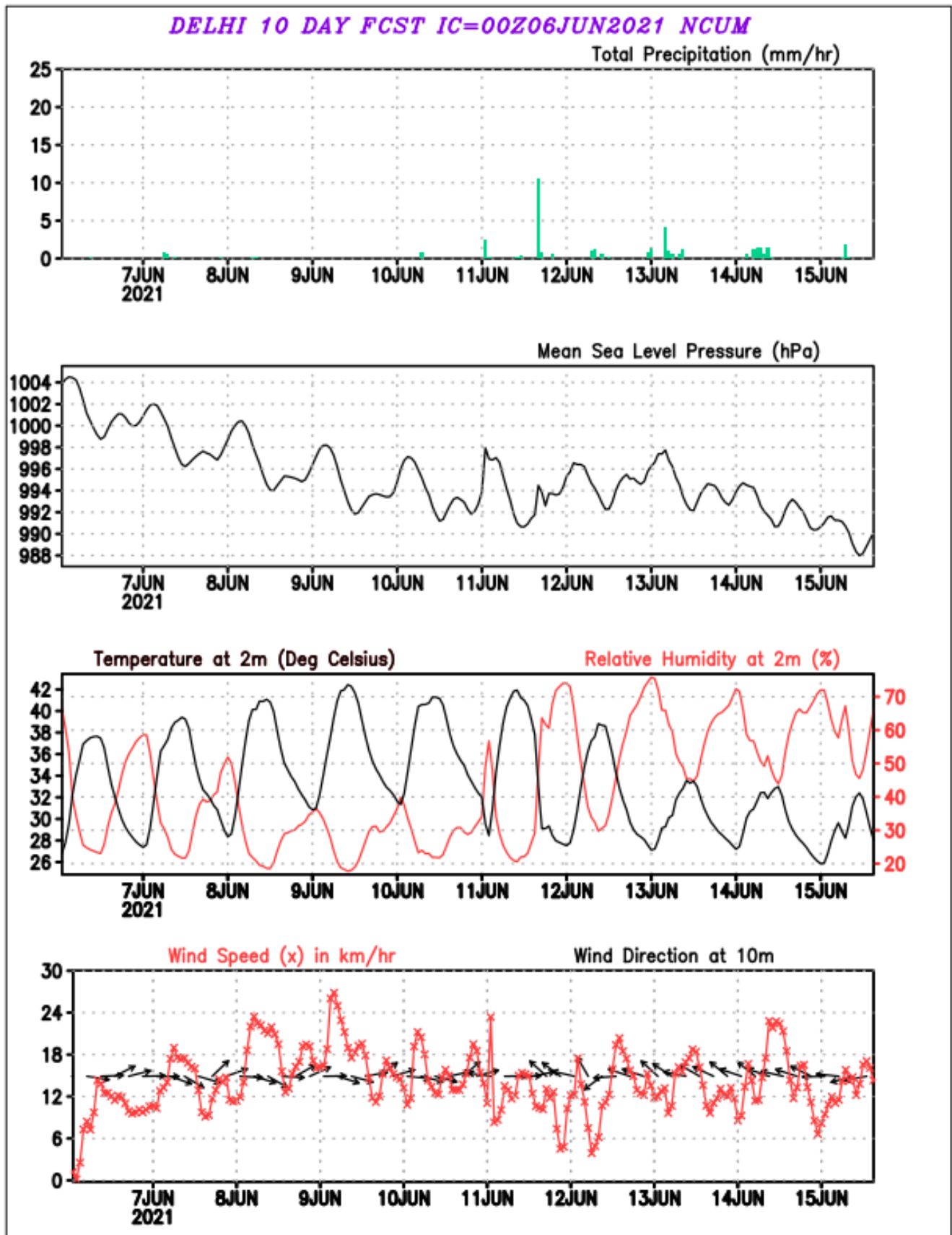
**CLOUD AMOUNT PROBABILISTIC FORECAST**

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

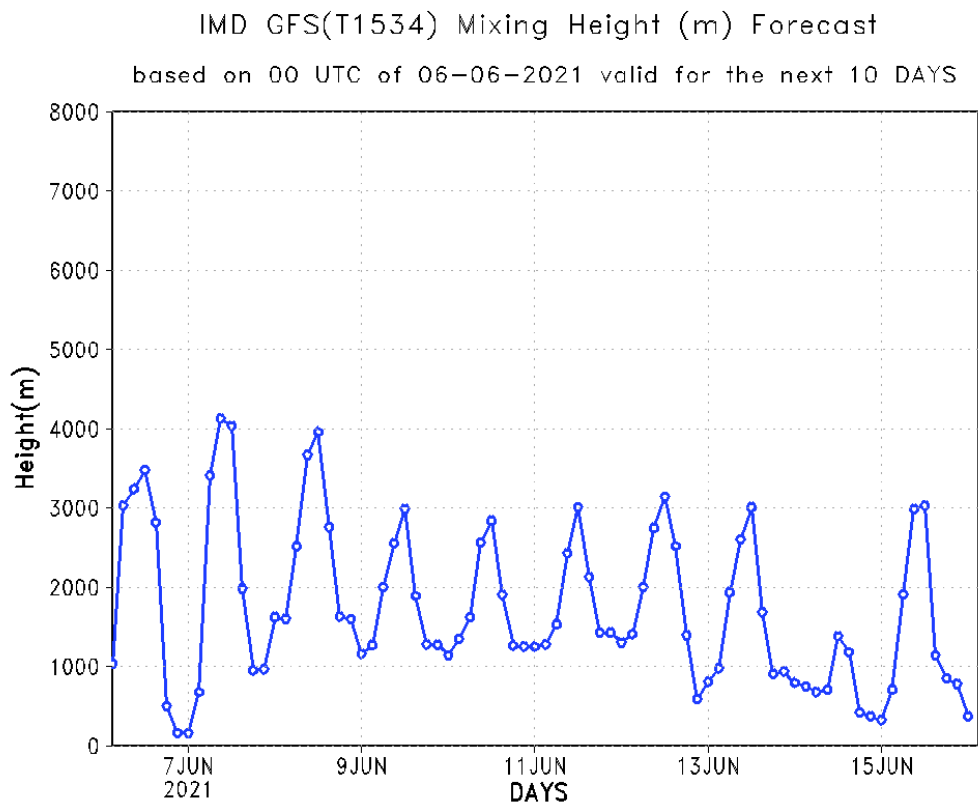
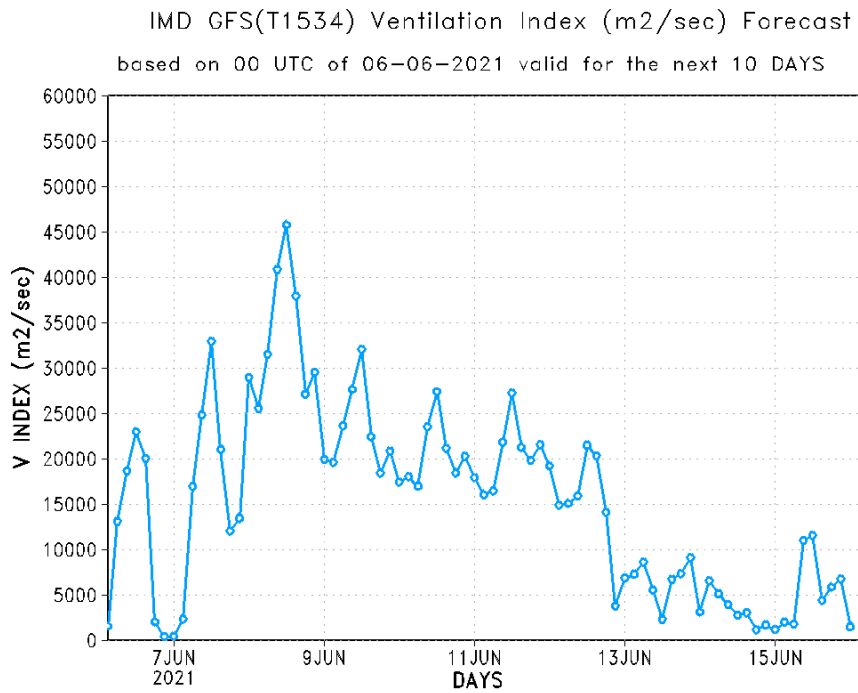


# Meteogram/EPsgram (10 days)





# Forecast of Ventilation Index and Mixing Height





# Wind Pattern Forecast

