



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 during next three days from 02.06.2021 to 04.06.2021. The predominant pollutant will be PM10. The strong surface winds are favourable 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 category till 7th and Poor category later on.
2. The predominant surface wind is likely to be coming from West directions of Delhi with wind speed 12-16 kmph, partly cloudy sky with possibility of very light rain/thundershowers on 02.06.2021. The predominant surface wind is likely to be coming from Southwest/West directions of Delhi with wind speed 10-20 kmph, partly cloudy sky with possibility of very light rain/thundershowers on 03.06.2021. The predominant surface wind is likely to be coming from West directions of Delhi with wind speed 12-18 kmph with partly cloudy sky on 04.06.2021.
3. Predicted maximum mixing depth is likely to be approx. 3950 m on 02.06.2021, 4050 m on 03.06.2021 and . 3100 m on 04.06.2021 over Delhi. Maximum Ventilation index is likely to be approx. 20000 m²/s on 02.06.2021, 10000 m²/s on 03.06.2021 and 17000 m²/s 04.06.2021. The ventilation index lower than 6000 m²/s with average wind speed less than 10 kmph is unfavourable for dispersion of pollutants.
4. The strong surface winds are favourable for raising dust locally and transport of dust from nearby region, thereby making PM10 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: 02.06.2021

DATE	TEMPERATURE (°C)		DIRECTION/ WIND SPEED (KMPH)			WEATHER FORECAST	
	MAX	MIN	0530-1130 (IST)	1130-1730 (IST)	1730-2330 (IST)		
02.06.2021	37	22.2	W/16	NW/16	SW/12	PARTLY CLOUDY SKY WITH VERY LIGHT RAIN/THUNDERSHOWERS.	
03.06.2021	37	23	SW/10	SW/10	W/20	PARTLY CLOUDY SKY WITH VERY LIGHT RAIN/THUNDERSHOWERS	
04.06.2021	38	23	W/16	W/12	W/18	PARTLY CLOUDY SKY.	
05.06.2021	39	24	W/15	SW/16	W/18	PARTLY CLOUDY SKY.	
06.06.2021	40	26	W/20	W/10	W/25	PARTLY CLOUDY SKY. STRONG SURFACE WINDS (SPEED 20-30 KMPH) DURING THE DAY.	
07.06.2021	40	27	W/25	W/30	W/30	MAINLY CLEAR SKY. STRONG SURFACE WINDS (SPEED 25-35 KMPH) DURING THE DAY.	
08.06.2021	40	27	W/22	W/30	W/30	MAINLY CLEAR SKY. STRONG SURFACE WINDS (SPEED 25-35 KMPH) DURING THE DAY.	

TEMPERATURE NORMALS

DATE	MAX	MIN
02-04 JUNE	40.5	27.5
05 JUNE-09 JUNE	40.2	27.7

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

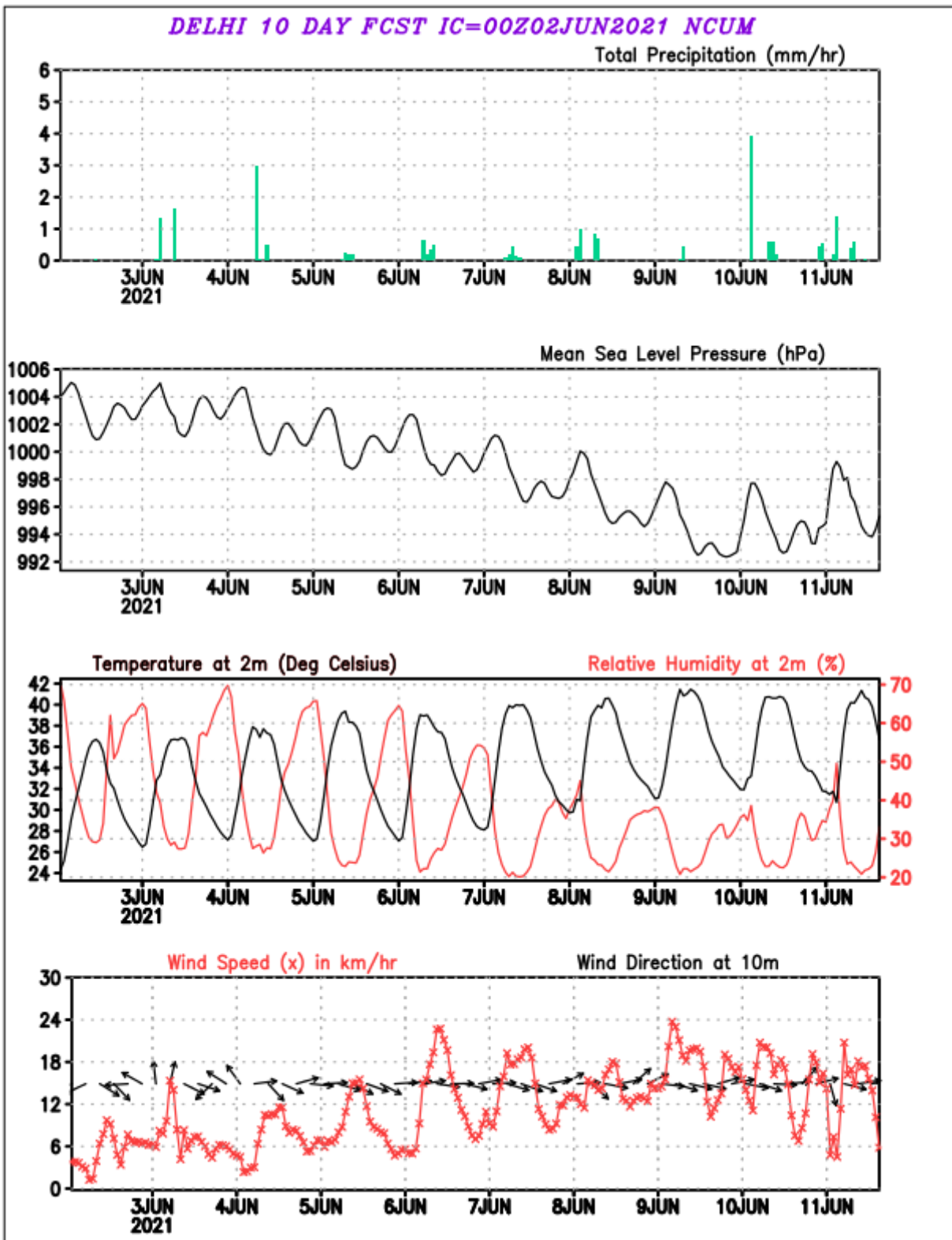
Terminology	Amount of Cloud in Octa
Clear Sky	0
Mainly clear sky	1 – 2
Partly cloudy sky	3 – 4
Generally cloudy sky	5 – 7
Overcast	8

PROBABILISTIC FORECAST

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



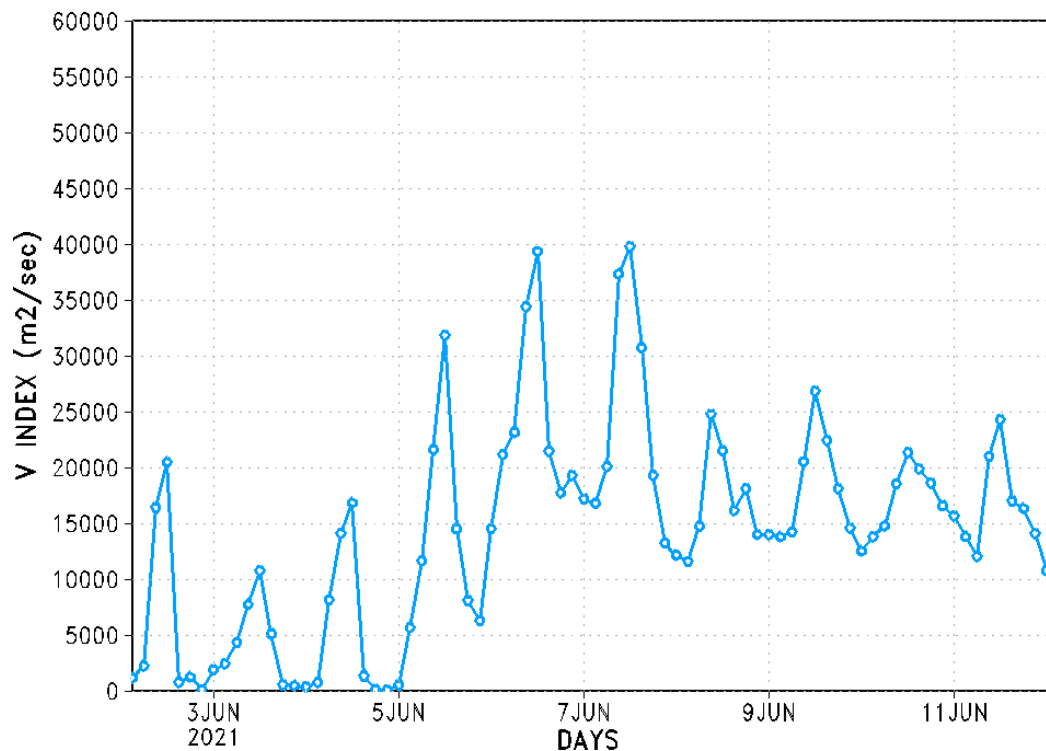
Meteogram/EPsgram (10 days)



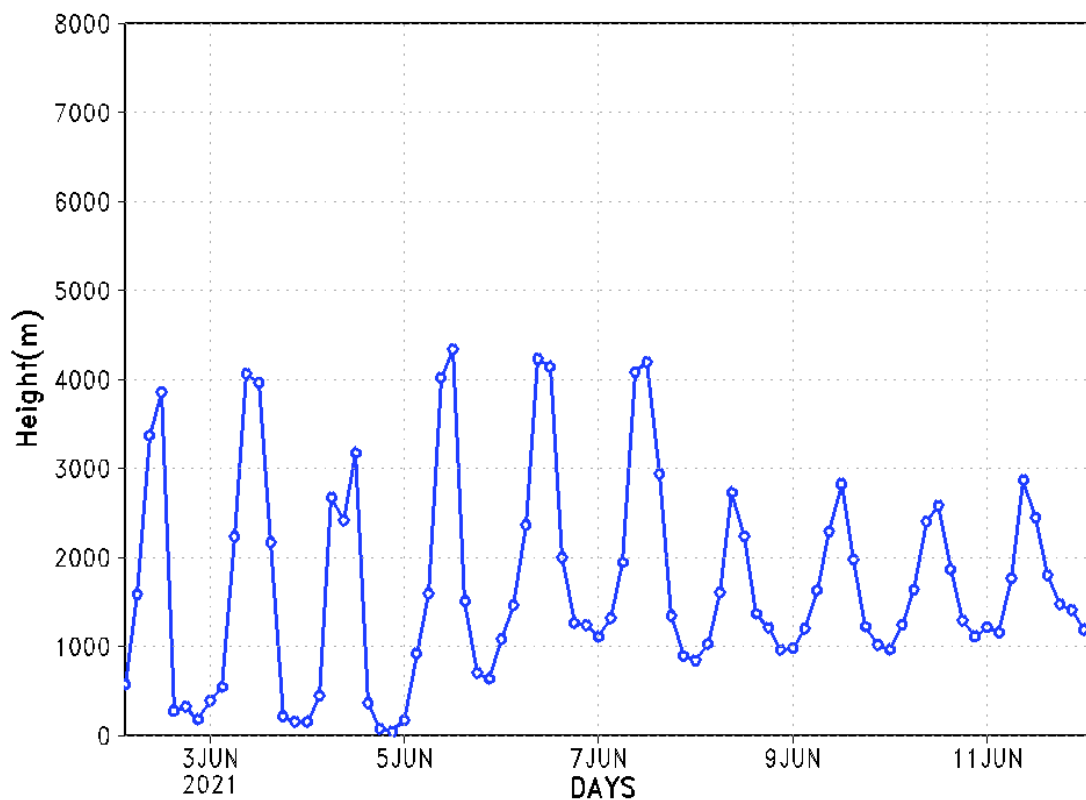


Forecast of Ventilation Index and Mixing Height

IMD GFS(T1534) Ventilation Index (m²/sec) Forecast
based on 00 UTC of 02-06-2021 valid for the next 10 DAYS



IMD GFS(T1534) Mixing Height (m) Forecast
based on 00 UTC of 02-06-2021 valid for the next 10 DAYS





Wind Pattern Forecast

