










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 07.06.2021. The air quality is likely to deteriorate marginally but remain in Moderate to Poor category on 08.06.2021 and 09.06.2021. The predominant pollutant will be PM10. 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.
2. The predominant surface wind is likely to be coming from West and Southwest directions of Delhi with wind speed 08-18 kmph and partly cloudy sky with possibility of thundery development towards evening on 07.06.2021. The predominant surface wind is likely to be coming from West directions of Delhi with wind speed 15-22 kmph, mainly clear sky and strong surface winds (speed 20-30 kmph) during the day on 08.06.2021. The predominant surface wind is likely to be coming from West directions of Delhi with wind speed 18-20 kmph, mainly clear sky and strong surface winds (speed 20-30 kmph) during the day on 09.06.2021.
3. Predicted maximum mixing depth is likely to be approx 3800 m on 07.06.2021 and 4000 m on 08.06.2021 over Delhi. Maximum Ventilation index is likely to be approx d 34000 m²/s on 07.06.2021 and 47000 m²/s on 08.06.2021. The ventilation index lower than 6000 m²/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 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: 07.06.2021

DATE	TEMPERATURE (°C)		DIRECTION/ WIND SPEED (KMPH)			WEATHER FORECAST
	MAX	MIN	0530-1130 (IST)	1130-1730 (IST)	1730-2330 (IST)	
07.06.2021	40	26.1	WSW/12	W/18	WSW/08	PARTLY CLOUDY SKY WITH POSSIBILITY OF THUNDERY DEVELOPMENT TOWARDS EVENING. 
08.06.2021	41	27	W/15	W/22	W/18	MAINLY CLEAR SKY. STRONG SURFACE WINDS (SPEED 20-30 KMPH) DURING THE DAY. 
09.06.2021	41	28	W/20	W/18	W/20	MAINLY CLEAR SKY. STRONG SURFACE WINDS (SPEED 20-30 KMPH) DURING THE DAY. 
10.06.2021	41	28	W/20	W/22	W/20	MAINLY CLEAR SKY. STRONG SURFACE WINDS (SPEED 20-30 KMPH) DURING THE DAY. 
11.06.2021	40	28	WNW/18	W/20	W/15	MAINLY CLEAR SKY. STRONG SURFACE WINDS (SPEED 20-30 KMPH) DURING THE DAY. 
12.06.2021	38	27	WNW/12	WNW/18	NW/10	PARTLY CLOUDY SKY WITH POSSIBILITY OF VERY LIGHT RAIN/THUNDERSHOWERS. 
13.06.2021	36	25	SE/05	SE/10	E/15	PARTLY CLOUDY SKY WITH LIGHT RAIN/THUNDERSHOWERS. 

TEMPERATURE NORMALS		
DATE	MAX	MIN
07 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

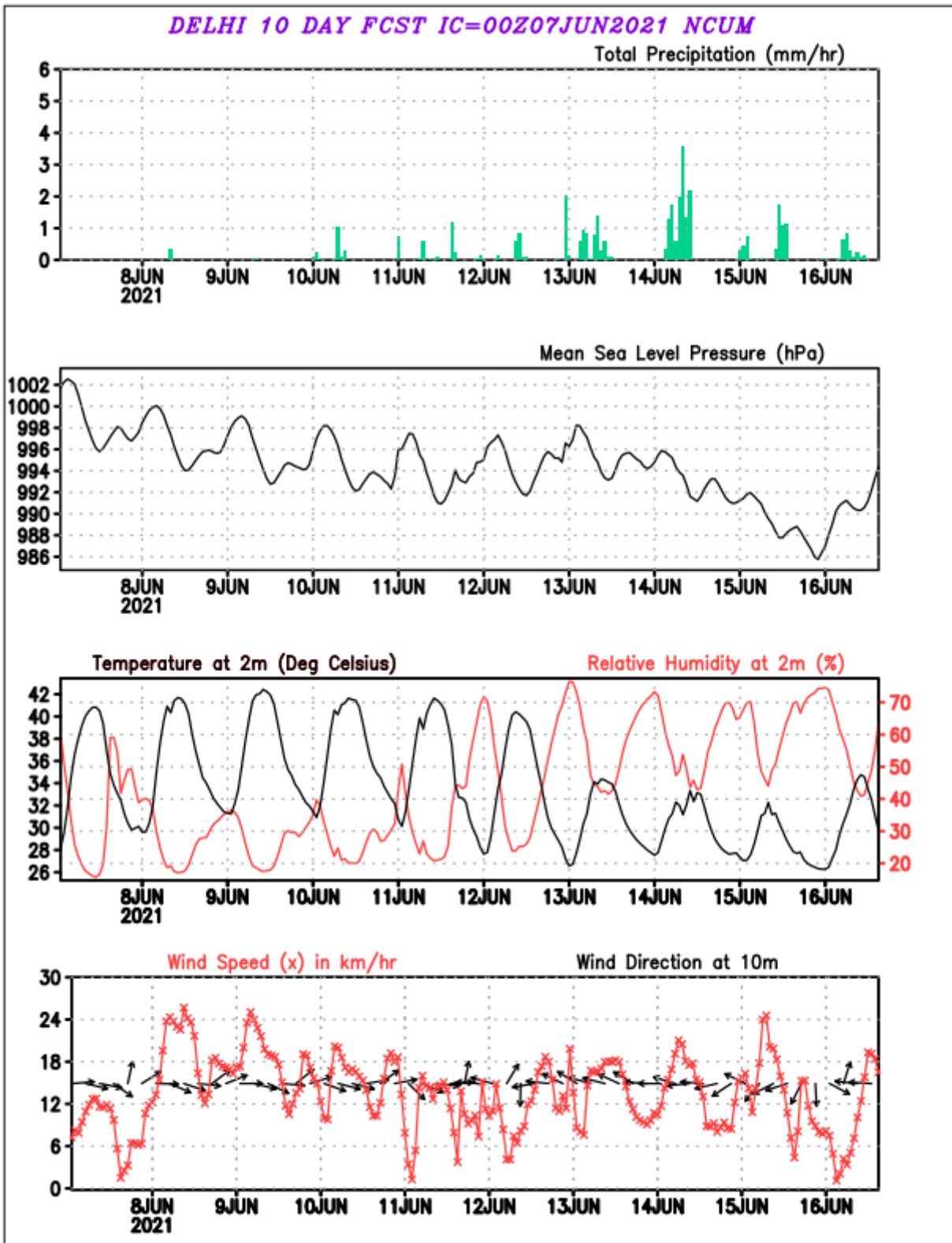
Terminology	Amount of Cloud in Octa
Clear Sky	0
Mainly clear sky	1 – 2
Partly cloudy sky	3 – 4
Generally cloudy sky	5 – 7
Overcast	8

PROBABILISTIC FORECAST

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



Meteogram/EPsgram (10 days)

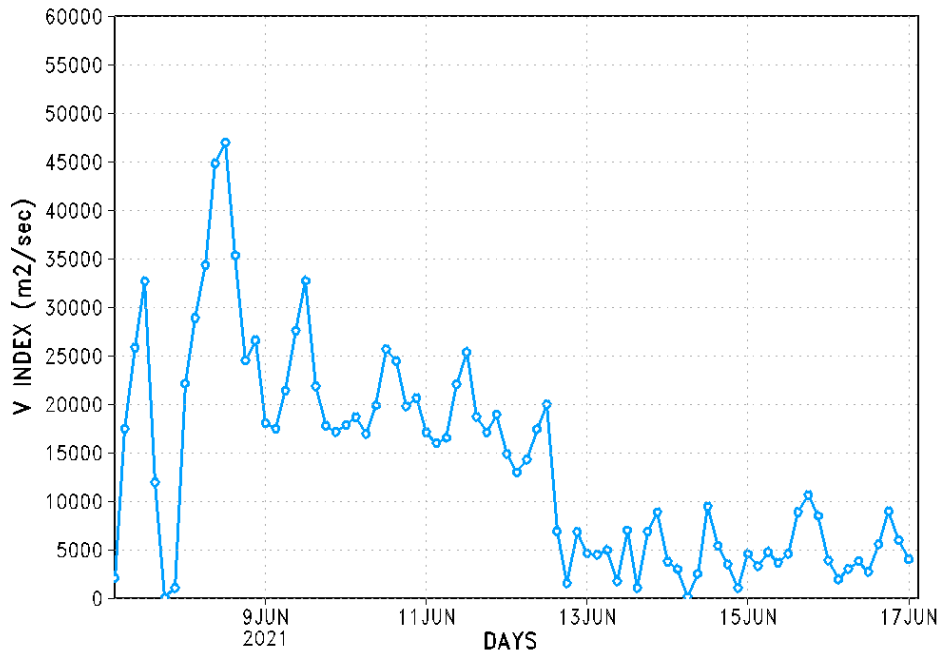




Forecast of Ventilation Index and Mixing Height

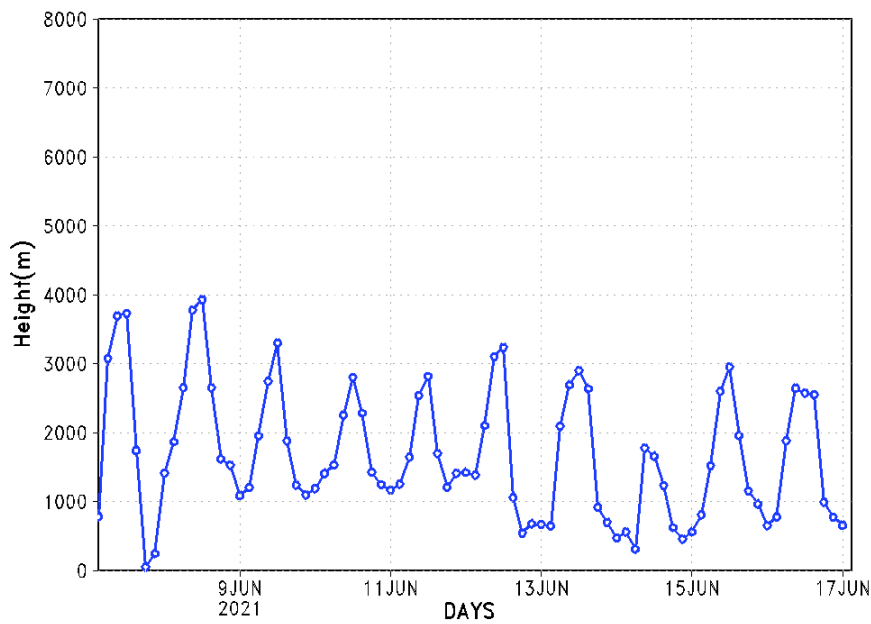
IMD GFS(T1534) Ventilation Index (m²/sec) Forecast

based on 00 UTC of 07-06-2021 valid for the next 10 DAYS



IMD GFS(T1534) Mixing Height (m) Forecast

based on 00 UTC of 07-06-2021 valid for the next 10 DAYS



Wind Pattern Forecast

