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 Poor category on 02.07.2021. 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 air quality is likely to deteriorate owing to strong winds/dust storms and reach in upper end of Poor category on 03.07.2021. The air quality is likely to improve marginally on 04.07.2021 but remain in Poor to Moderate category. The Outlook for subsequent 5 Days: The air quality is likely to remain largely in Moderate category.

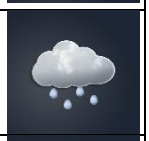
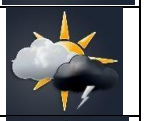
2. The predominant surface wind is likely to be coming from West/Southwest directions of Delhi with wind speed 15-18 kmph, partly cloudy sky, heat wave conditions at isolated places, dust storm/thunderstorm accompanied with very light rain and gusty winds (speed 40-50 kmph on 02.07.2021. The predominant surface wind is likely to be coming from West directions of Delhi with wind speed 12-15 kmph, partly cloudy sky and possibility of very light rain/thundershowers on 03.07.2021. The predominant surface wind is likely to be coming from West directions of Delhi with wind speed 12-15 kmph, partly cloudy sky and possibility of thundery development on 04.07.2021.

3. Predicted maximum mixing depth is likely to be approx. 4300 m on 02.07.2021, 1300 m on 03.07.2021 and 3500 on 04.07.2021 over Delhi. Maximum Ventilation index is likely to be approx. 21000 m^2/s on 02.07.2021, 14000 m^2/s 03.07.2021 and 14500 m^2/s 04.07.2021. The ventilation index lower than 6000 m^2/s with average wind speed less than 10 kmph is unfavourable or dispersion of pollutant.

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: 02.07.2021

DATE	TEMPERATURE (℃)		DIRECTION/ WIND SPEED (KMPH)			WEATHER FORECAST	
	MAX	MIN	0530-1130 (IST)	1130-1730 (IST)	1730-2330 (IST)		
02.07.2021	41	27.2	W/18	WSW/18	W/15	PARTLY CLOUDY SKY. HEAT WAVE CONDITIONS AT ISOLATED PLACES. DUST STORM/THUNDERSTORM ACCOMPAINED WITH VERY LIGHT RAIN & GUSTY WINDS (SPEED 40-50 KMPH) TOWARDS EVENING/NIGHT.	
03.07.2021	40	27	W/15	W/12	WNW/15	PARTLY CLOUDY SKY WITH POSSIBILITY OF VERY LIGHT RAIN/THUNDERSHOWERS.	
04.07.2021	40	26	W/15	W/12	W/15	PARTLY CLOUDY SKY WITH POSSIBILITY OF THUNDERY DEVELOPMENT.	
05.07.2021	41	27	WNW/12	WSW/10	W/12	PARTLY CLOUDY SKY WITH POSSIBILITY OF THUNDERY DEVELOPMENT.	
06.07.2021	41	28	W/12	W/12	W/10	PARTLY CLOUDY SKY.	
07.07.2021	40	29	W/15	W/12	WSW/10	PARTLY CLOUDY SKY.	
08.07.2021	39	29	WNW/12	WSW/10	SE/12	PARTLY CLOUDY SKY WITH POSSIBILITY OF VERY LIGHT RAIN/THUNDERSHOWERS.	

TEMPERATURE NORMALS		
DATE	MAX	MIN
02 JULY-04 JULY	36.8	27.8
05 JULY- 09 JULY	36.6	27.8

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

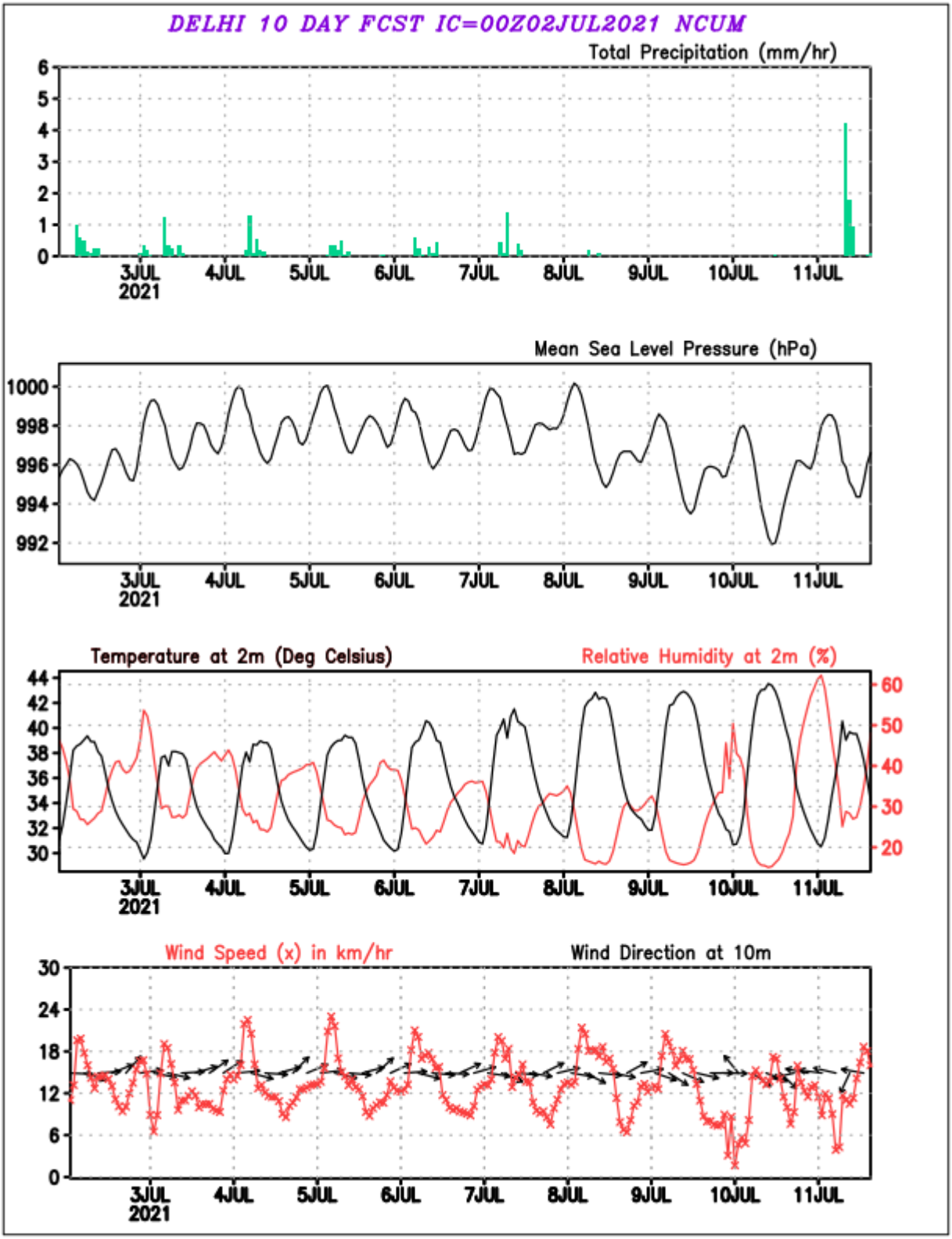
CLOUD AMOUNT

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

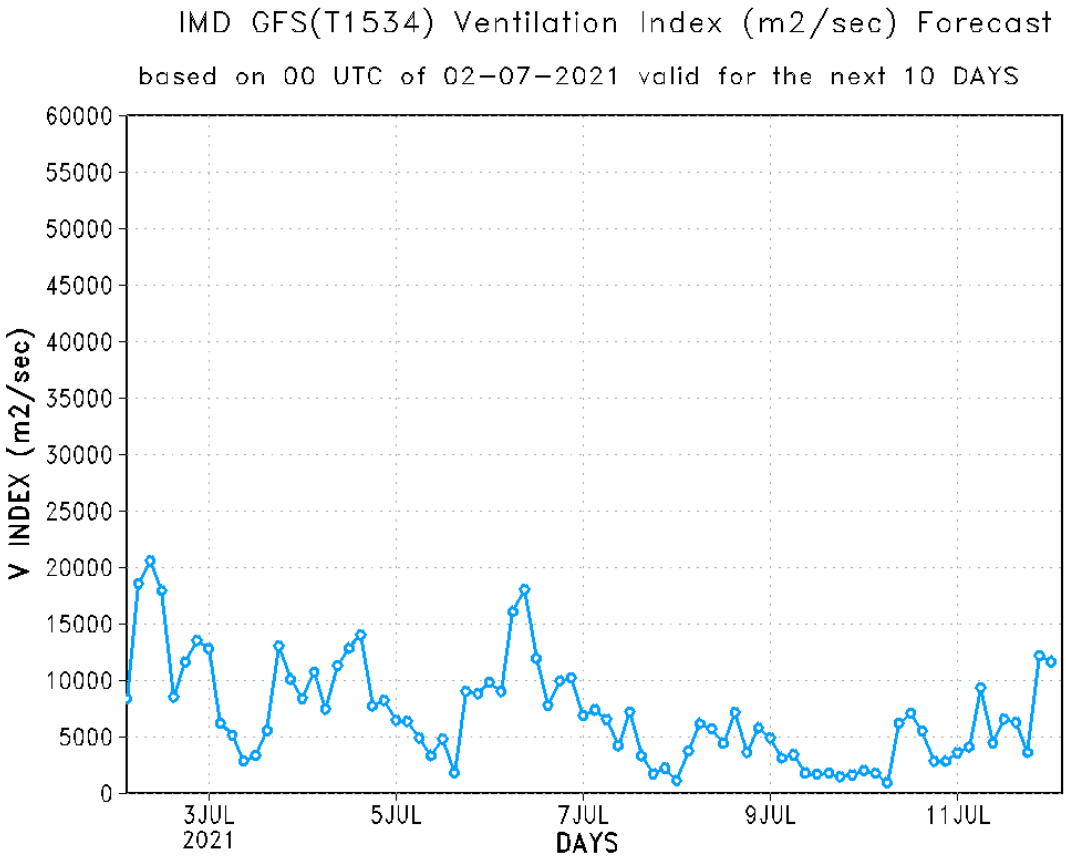
PROBABILISTIC FORECAST

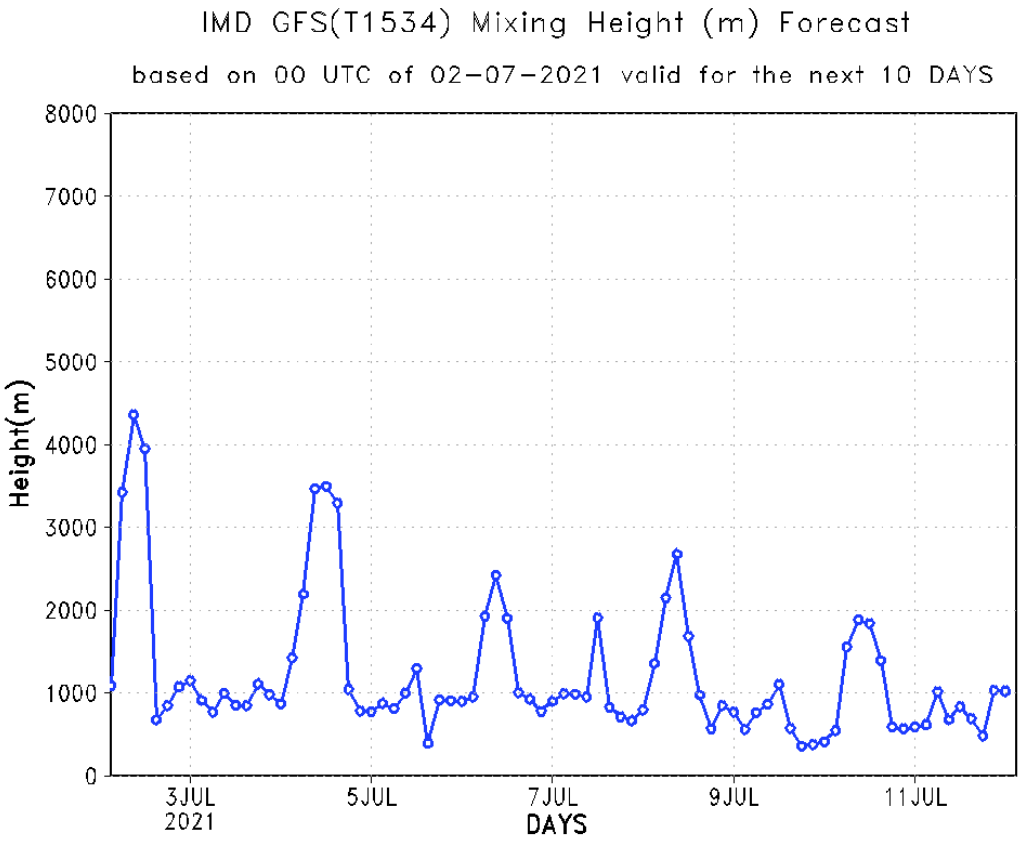
Terms	Probability of Occurrence (%)
Unlikely	<25
Likely	25 - 50
Very Likely	50 – 75
Most Likely	>75

Meteogram/EPSgram (10 days)



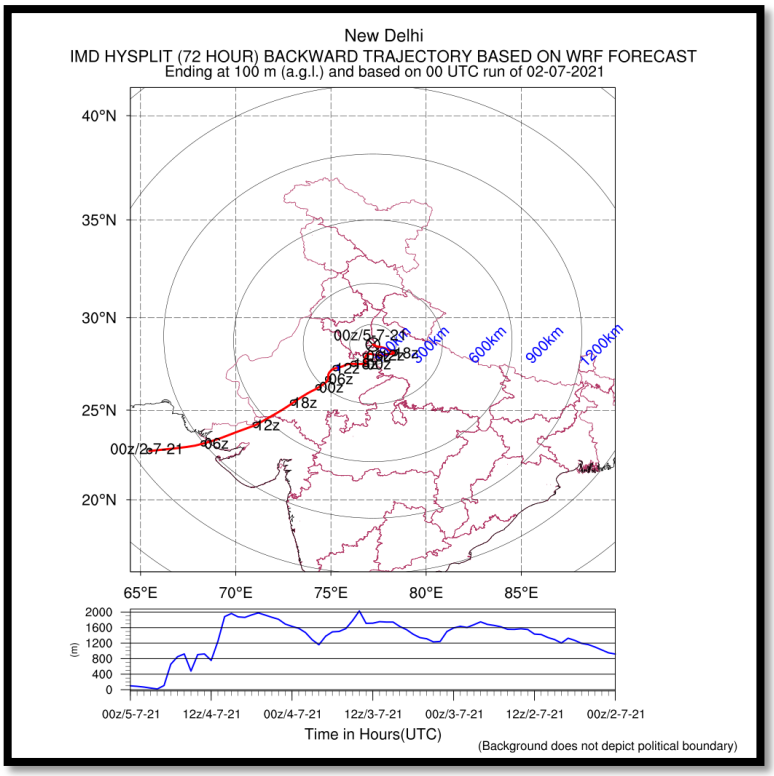
Forecast of Ventilation Index and Mixing Height



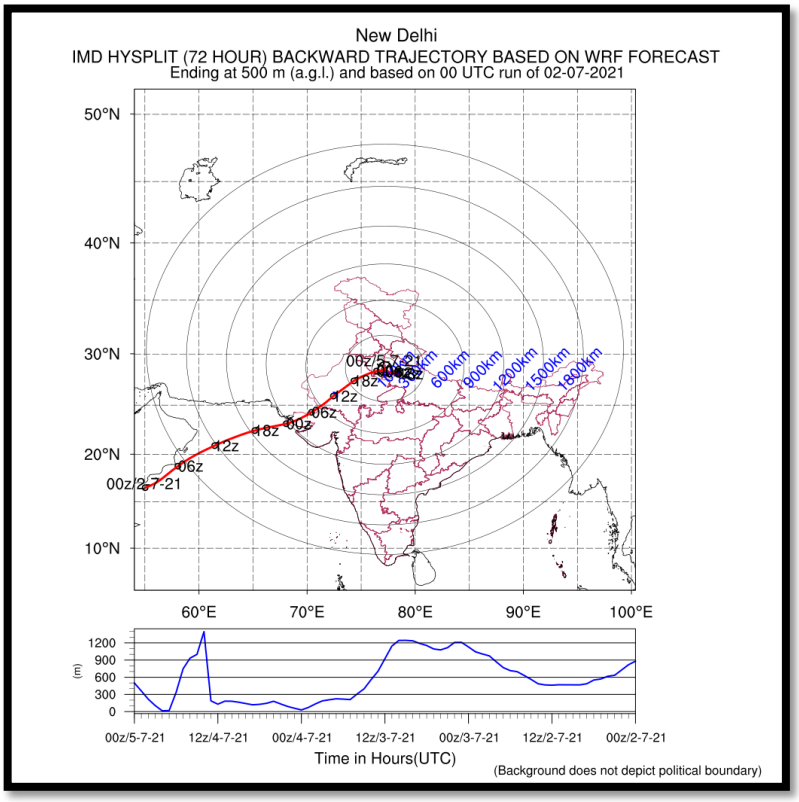


Wind Pattern Forecast

At 100m Height



At 500m Height



At 1000m Height