Ministry of Earth Sciences
India Meteorological Department
Cyclone Warning Division, New Delhi

Tropical Cyclone Forecast Programme
Report Dated 07th December 2025

Time of Issue: 1030 UTC

Synoptic features (based on 0900 UTC analysis):

- The upper air cyclonic circulation over south Kerala coast & neighborhood became less marked at 0000 UTC of today, the 07th December 2025.

Environmental Features based on 0600 UTC:

Parameter	Bay of Bengal (BoB)	Arabian Sea (AS)
Sea Surface Temperature (SST) ºC	➢ 28°C over south adjoining central BoB. ➢ 25°C over north BoB.	➢ Around 28-29°C over southeast adjoining eastcentral Arabian Sea, Maldives and Lakshadweep area. ➢ Around 26°C-27°C over rest of Arabian Sea.
Tropical Cyclone Heat Potential (TCHP) kJ/cm^2	➢ 125-150 over eastern parts of southeast BoB, Andaman Sea, ➢ About 100-120 over some parts of south, eastcentral and northeast BoB. ➢ About 50 over northwest BoB, Comorin area, Gulf of Mannar.	➢ 120-130 over southeast Arabian Sea, Lakshadweep area and Maldives area.
Cyclonic Relative - vorticity (X10^{-6}s^{-1})	➢ 25-35 over south Andaman Sea & southeast Bay of Bengal and adjoining Indonesia	➢ 10-20 over part of westcentral AS
Low-Level convergence (X10-6 s-1)	➢ 5 over south Andaman Sea	➢ 5 over southwest AS
Upper-Level divergence (X10-6 s-1)	➢ 5 – 10 over entire BoB	➢ 10 over northwest AS, Comorin area and adjoining Maldives.
Vertical Wind Shear (VWS knots) Low: 05-10 knots Moderate: 10-20 knots High: >20 knots	➢ Low- moderate & anti-cyclonic over the south BoB and Andaman Sea. ➢ High over rest of BoB.	➢ Low- moderate over south AS ➢ High over rest of AS
Wind Shear Tendency (knots)	➢ Decreasing over BoB	➢ Decreasing over entire AS except westcentral AS

Upper tropospheric Ridge	➢ Ridge is running along 11°N at 98°E	-

M.J.O. Index:

The guidance from various models indicates that the Madden Julian Oscillation (MJO) index is presently in phase 8 with amplitude more than 1 and is likely to continue in same phase during the next 7 days.

Equatorial waves guidance:

The guidance from NCICS model indicates weak easterly wind anomaly (3-5 mps) is likely to prevail over south and central parts of Bay of Bengal (BoB) during next 3 days. During the same period weak westerly is indicated over south & central Arabian Sea (AS) with Equatorial Rossby Wave (ERW) over southeast AS & adjoining areas of Comorin and southwest BoB alongwith Kelvin wave (KW). During 9th-14th December, the easterly wind anomalies are likely to weaken (1-3 mps) gradually over the south and adjoining central BoB. Thereafter, the easterly wind anomaly is likely to strengthen againfrom 15th December. During 15th -17th December, enhanced westerly wind anomaly (7-9 mps) over south BoB & adjoining Equatorial Indian Ocean (EIO) alongwith prevalence of ERW, KW, MJO and LW. These features indicate a favourabl environment for development of a cyclonic disturbance over the south BoB during 15th-17th December.

Satellite based cloud observations

Over Bay of Bengal & Andaman Sea:

As per INSAT 3DS at 0600 UTC, scattered low and medium clouds with embedded moderate to intense convection lay over central & south Bay of Bengal and south Andaman Sea. Scattered low and medium clouds with embedded isolated weak to moderate convection lay over north Andaman Sea.

Over the Arabian Sea:

As per INSAT 3DS at 0600 UTC, scattered low and medium clouds with embedded moderate to intense convection lay over eastcentral & south Arabian Sea, Lakshadweep Islands, Maldives and Comorin area. Scattered low and medium clouds with embedded isolated weak to moderate convection lay over northwest & westcentral Arabian Sea.

Outside India:

As per INSAT 3DS at 0600 UTC, scattered low & medium clouds with embedded moderate to intense convection over Sri Lanka, Palk Strait, Gulf of Mannar, Maldives area, Pakistan, Nepal, Tibet, China, Yellow Sea, east China Sea, Sumatra, Strait of Malacca, Malaysia, Borneo, south China Sea, Java Islands & Sea, Celebes Islands & Sea, Philippines, Sulu Sea, Madagascar, Mozambique channel and over Indian Ocean between latitude 5.0°N to 15.0°S longitude 40.0°E to 120.0°E and between latitude 15.0°S to 35.0°S longitude 40.0°E to 80.0°E.

NWP Guidance for FDP Cyclone:

MODEL GUIDANCE	Bay of Bengal (BoB)	Arabian Sea (AS)
IMD-GFS	➢ The trough in easterly wave is running along 14°N at 88°E on 7th Dec, an embedded upper air cyclonic circulation over southeast BoB & adjoining Equatorial Indian Ocean on 7th Dec. The wave is	No significant system during next seven days.

	reaching along 12°N at 80°E on 8th December. ➢ Development of a low pressure area on 15th December over southeast BoB with westwards movement till 17th December. ➢ Another easterly wave is likely to be active with development of a trough along 14°N at 91°E on 13th Dec, reaching along 15°N at 84°E on 15th December.	
IMD-GEFS	Not available	Not available
IMD-WRF	Not available	Not available
BFS	➢ The trough in easterly wave is running along 10°N at 88°E on 7th Dec, an embedded upper air cyclonic circulation over southeast BoB & adjoining Equatorial Indian Ocean on 7th Dec. The wave is reaching along 10°N at 79°E on 9th December and along 12°N at 70°E on 10th December. ➢ Another easterly wave is likely to be active with development of a trough along 14°N at 92°E with an embedded cyclonic circulation on 13th Dec, reaching along 12°N at 79°E on 16th December. ➢ Development of a low pressure area on 14th December over southeast BoB with westwards movement till 16th December.	No significant system is indicated during next 7 days.
NCMRWF-NCUM(G)	➢ Easterly wave is likely to be active with development of a trough along 12°N at 91°E on embedded upper air cyclonic circulation over southeast BoB & adjoining EIO on 7th December. The wave is reaching along 11°N at 79°E on 9th December. ➢ Another easterly wave is likely to be active with development of a trough along 14°N at 92°E with an embedded cyclonic circulation on 14th Dec. becoming less marked thereafter.	No significant system is indicated during next 7 days.
NCMRWF-NCUM(R)	The easterly wave is likely to be active with development of a trough along 14°N at 92°E on 7th December raeching along 12°N at 84°E on 10th December.	No significant system during next three days.
NEPS	The easterly wave is likely to be active with development of a trough along 10°N at 86°E on 7th December, reaching along 11°N at 82°E on 9th December.	No significant system is indicated during next 7 days.
ECMWF	➢ The easterly wave is likely to be active with development of a trough along 11°N at 91°E on 7th December, reaching along 10°N at 84°E on 9th December.	No significant system is indicated during next 7 days.

	➢ Another easterly wave is likely to be active with development of a trough along 12°N at 93°E on 14th December, reaching along 10°N at 83°E on 16th December. ➢ Development of a low pressure area on 14th December over southeast BoB with westwards movement further intensification into depression around 15th December.	
NCEP-GFS	➢ The trough in easterly wave is running along 14°N at 88°E on 7th Dec, an embedded upper air cyclonic circulation over southeast BoB & adjoining Equatorial Indian Ocean on 7th Dec. The wave is reaching along 12°N at 80°E on 8th December. ➢ Development of a low pressure area on 15th December over southeast BoB with westwards movement till 17th December. ➢ Another easterly wave is likely to be active with development of a trough along 14°N at 91°E on 13th Dec, reaching along 15°N at 84°E on 15th December.	Model is not indicating any significant system.
EC-AIFS	No significant system	No significant system is indicated during next 7 days.

Summary of models guidance:

Bay of Bengal:

Most of the models indicate the signature of easterly waves over Southeast BoB & adjoining Andaman Sea around 7th December which is likely to propagate westwards and reach over southwest BoB off North Sri Lanka and adjoining Tamil Nadu coasts by around 9th/10th December.

Models like IMD-GFS, NCEP-GFS, NCUM (G) are also indicating the formation of an upper air cyclonic circulation over the southeast BoB around 7th December till 9th December.

Models are also indicating another active easterly wave over southeast BoB on 14th December which is indicated to impact south peninsular India and Sri Lanka around 17th December.

Models are also indicating the formation of a low pressure area over the southeast BoB around 14th December with westwards movement towards Sri Lanka till 16th December.

Arabian Sea:

No significant system is indicated

Inference:

Considering various large-scale environmental features, climatology and model guidance, it is inferred that there is no probability of cyclogenesis during next 7 days. However, there is likelihood of following:

(a) An active easterly wave is very likely to pass through southeast Bay of Bengal around 7th/8th December, reaching Tamil Nadu coast around 9th/10th December.

(b) There is also a low probability of an upper air cyclonic circulation over southeast BoB during on 7th December.

(c) Models are also indicating another active easterly wave over south BoB region from 14th December. There is also likelihood of formation of a low pressure area over southeast boB around 15th December.

Probability of cyclogenesis (formation of depression and above intensity systems) over the Bay of Bengal during next 168 hours:

24 HOURS	24-48 HOURS	48-72 HOURS	72-96 HOURS	96-120 HOURS	120-144 HOURS	144-168 HOURS
NIL	NIL	NIL	NIL	NIL	NIL	NIL

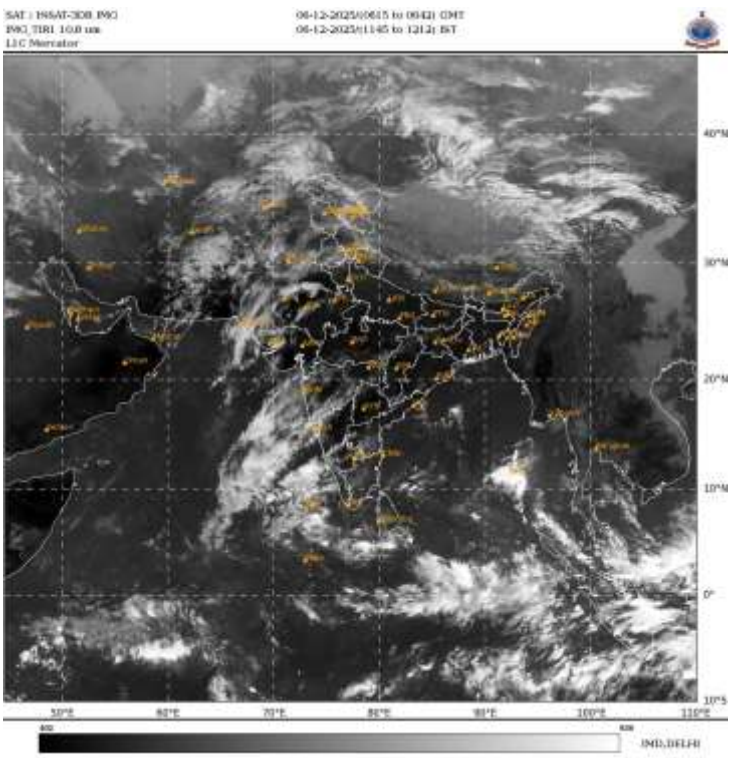
Probability of cyclogenesis (formation of depression and above intensity systems) over the Arabian Sea during next 168 hours:

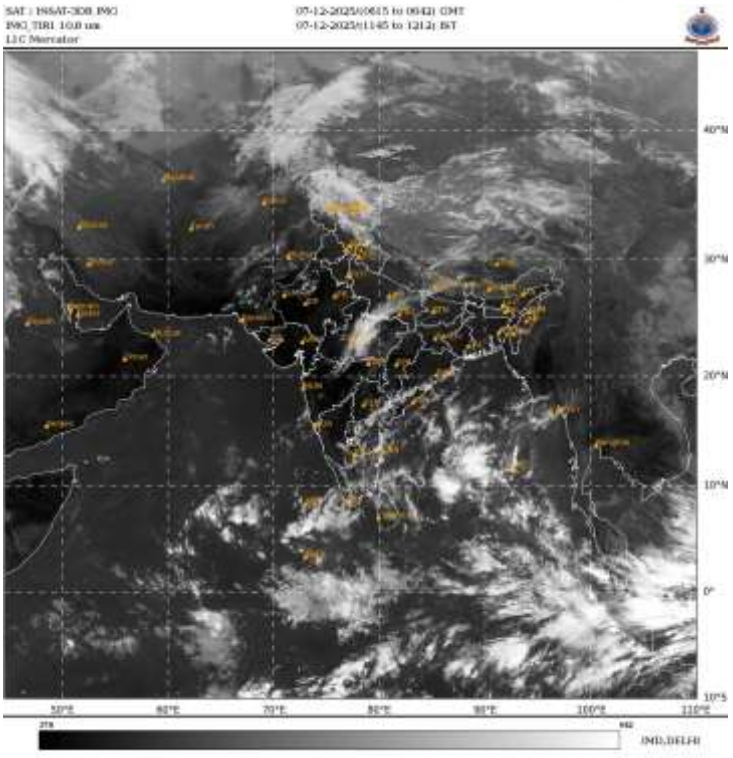
24 HOURS	24-48 HOURS	48-72 HOURS	72-96 HOURS	96-120 HOURS	120-144 HOURS	144-168 HOURS
NIL	NIL	NIL	NIL	NIL	NIL	NIL

"- "indicates genesis has already occurred.
Probability is indicated as NIL for 0%, LOW for 1-33%, MOD for 34-67% and High for 68-100%. Every 24 hrs forecast ends at the 0300 UTC of date.

Intense Observation Period (IOP): Nil

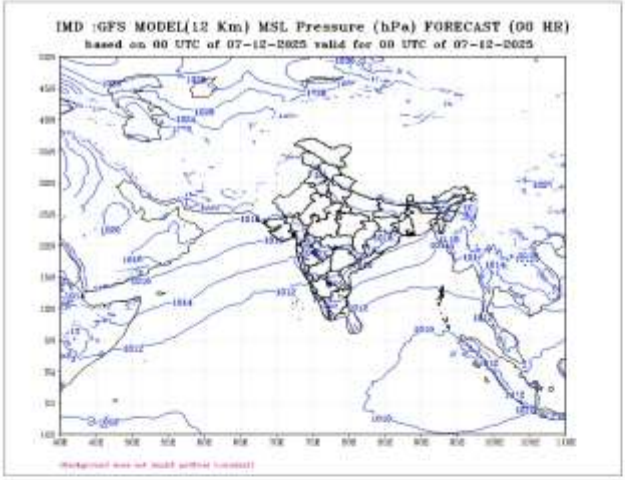
INSAT 3DS imageries at 0600 UTC of 6th & 7th December

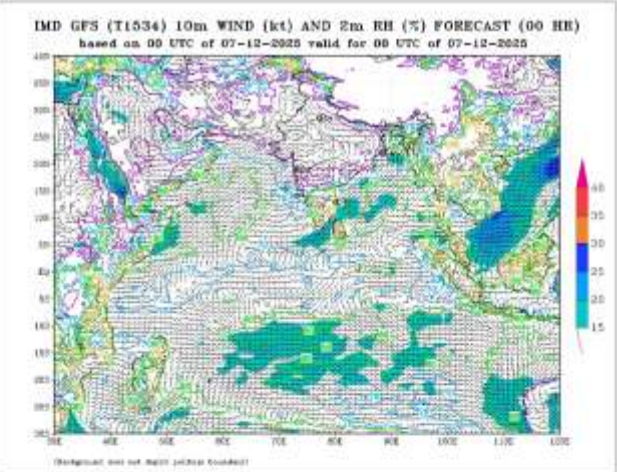


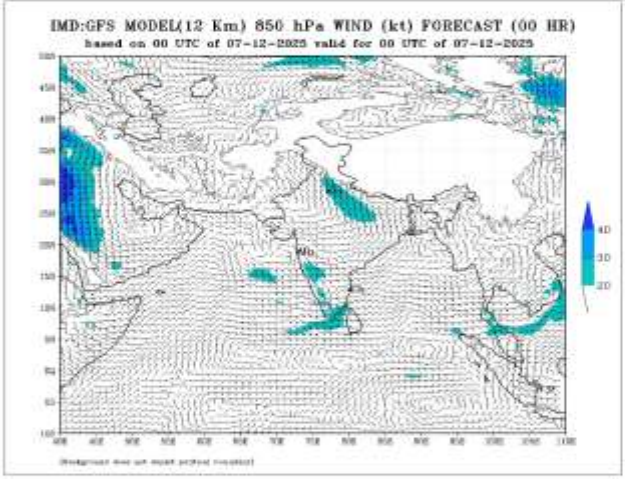


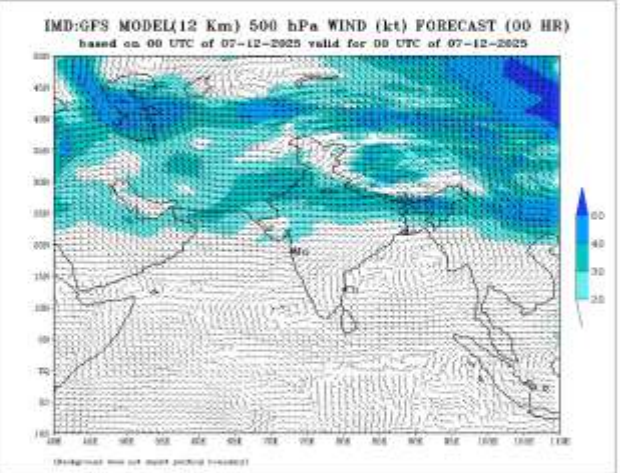
Annexure

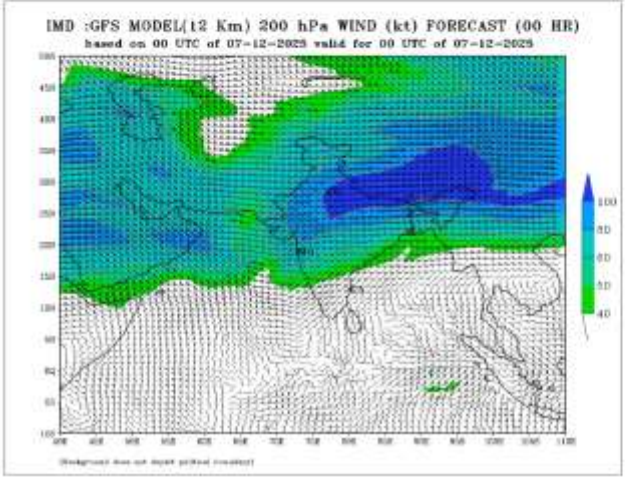
Forecast +00h



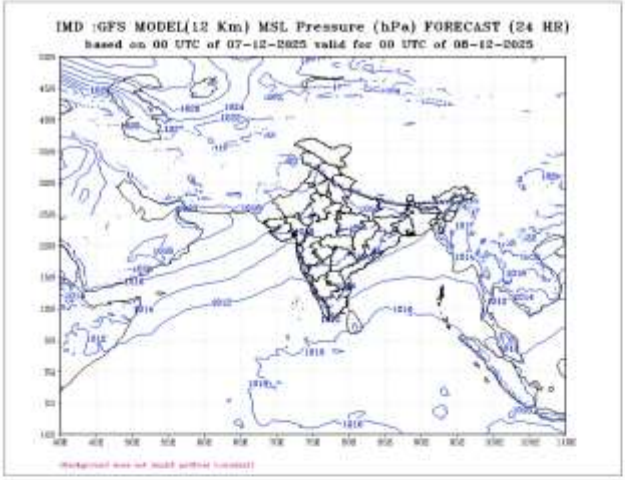


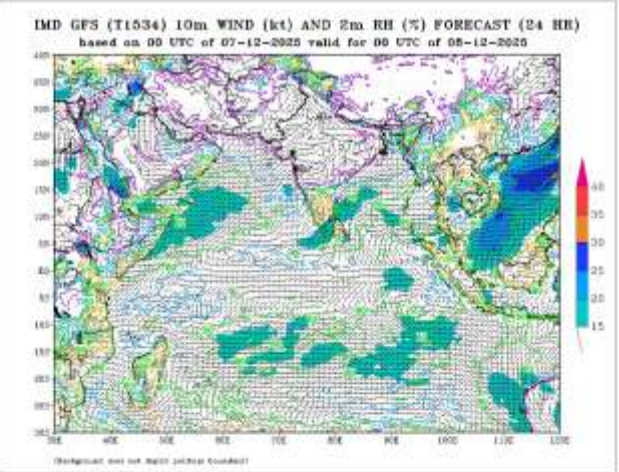


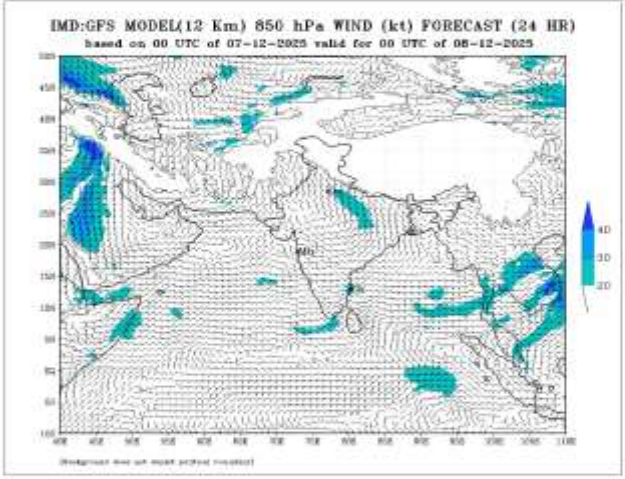


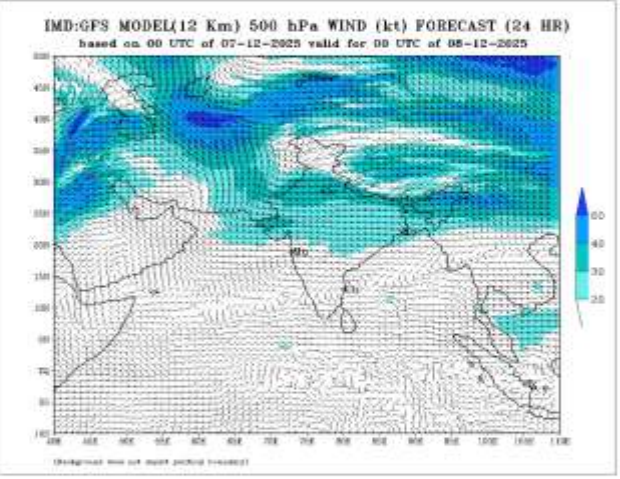


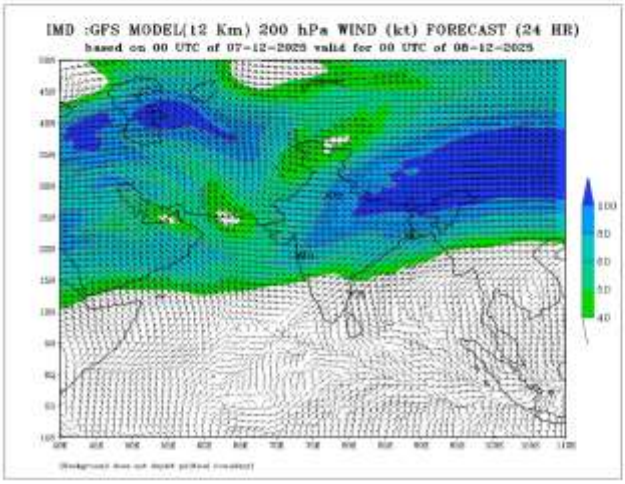
Forecast +24h



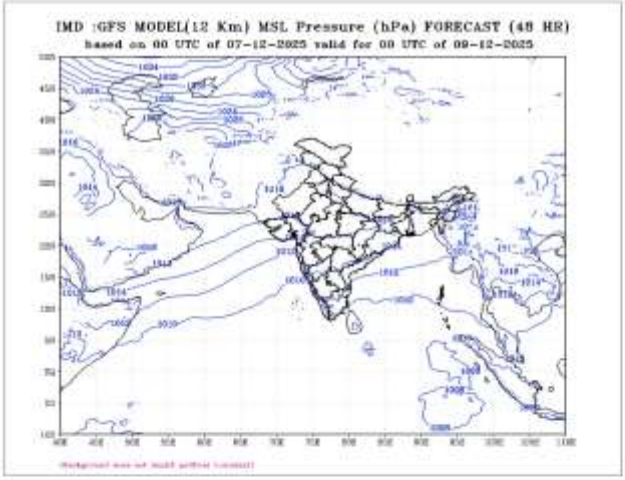


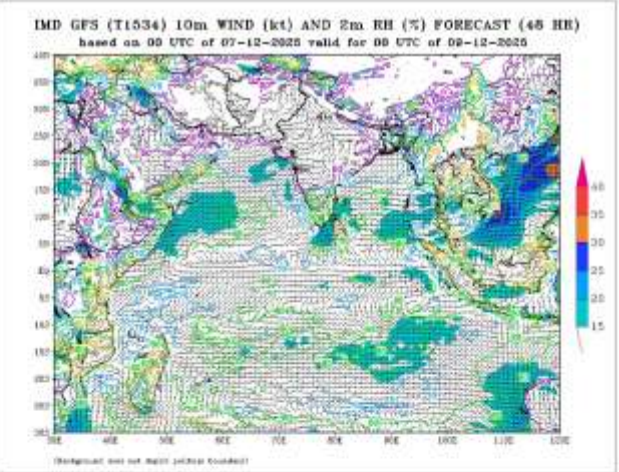


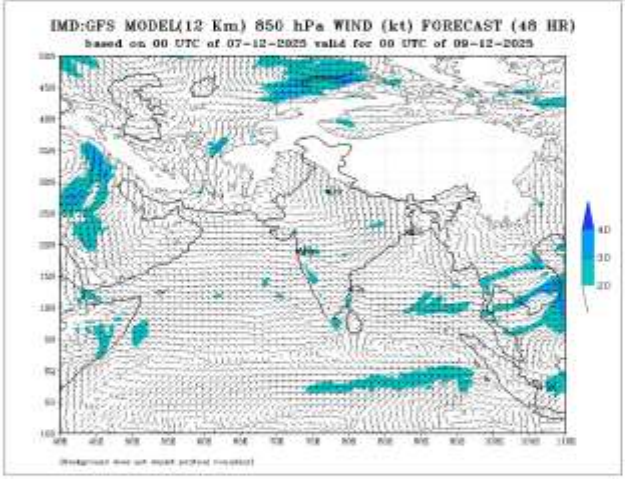


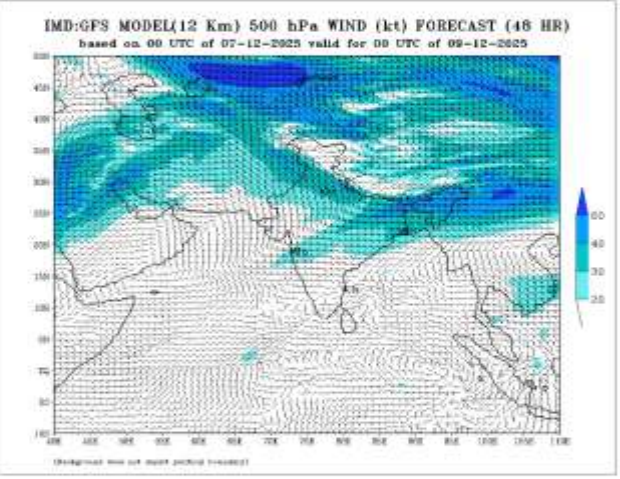


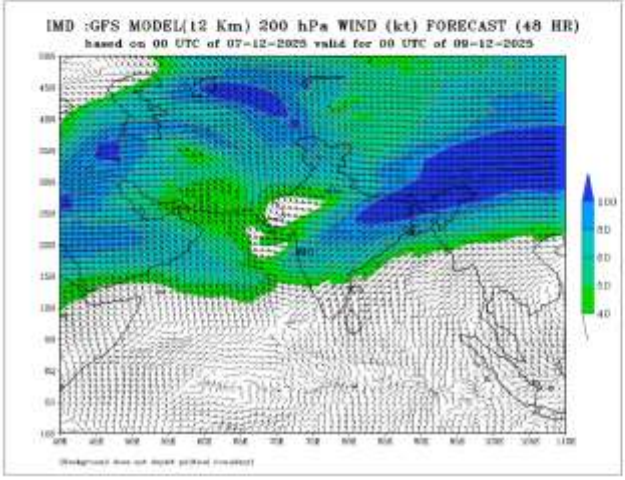
Forecast +48h



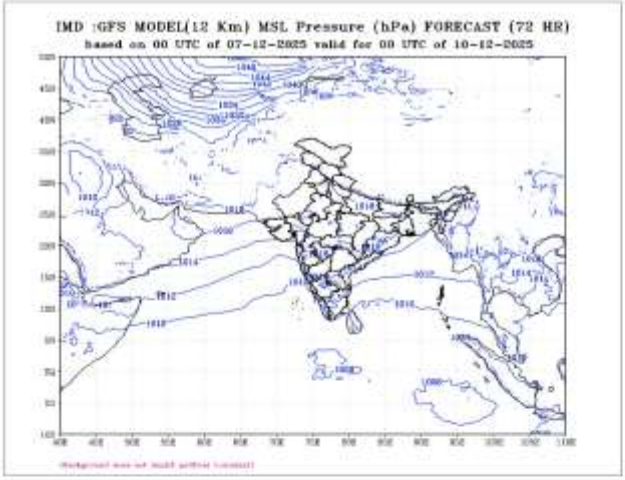


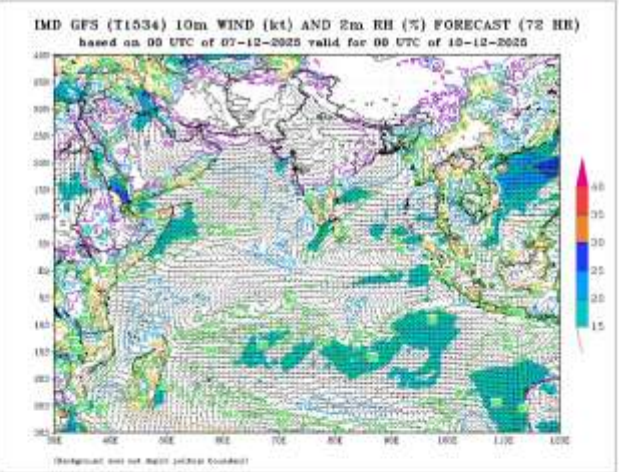


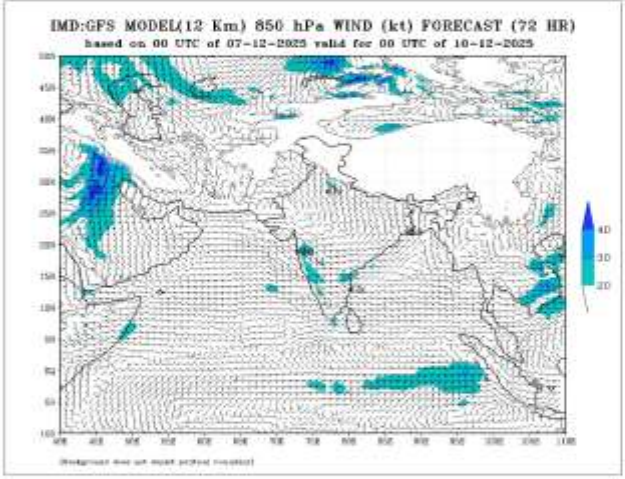


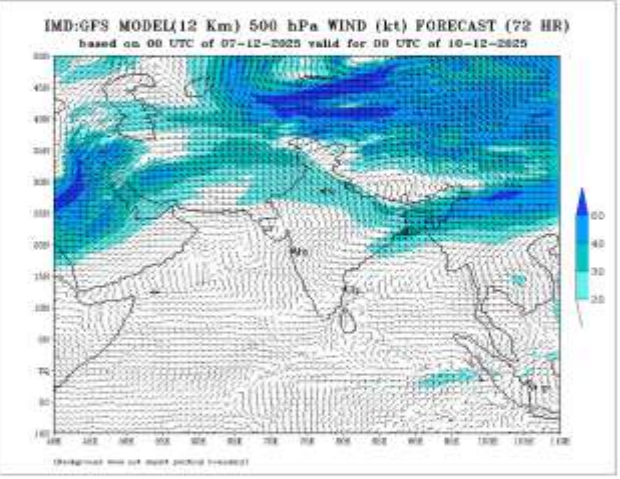


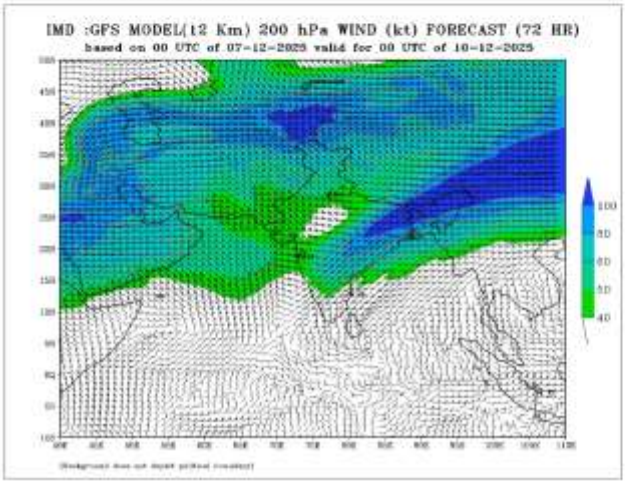
Forecast +72h



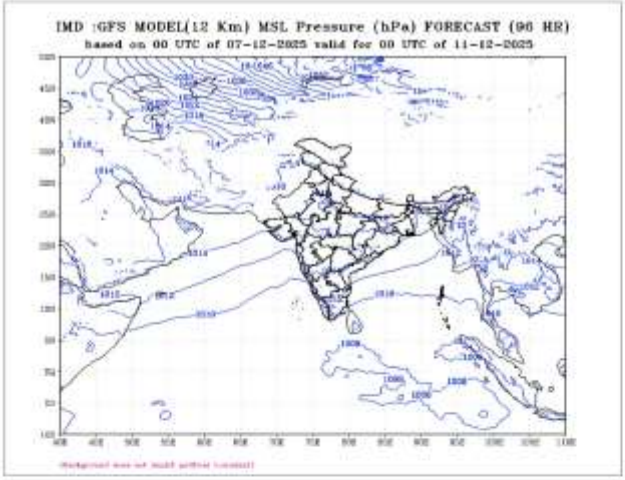


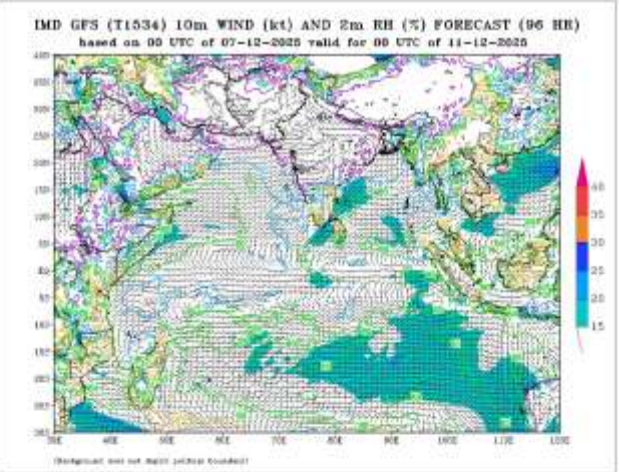


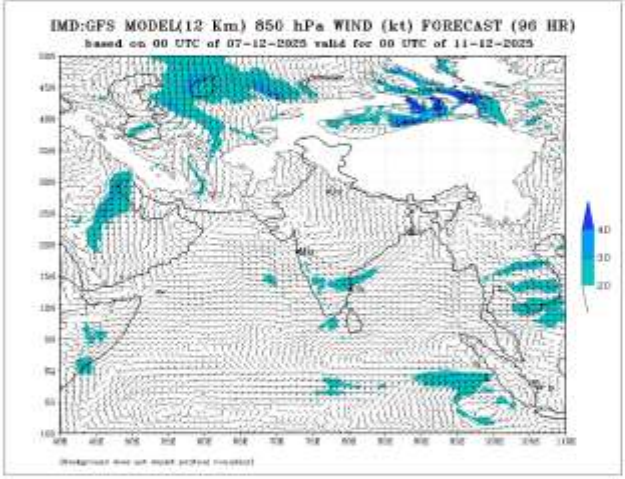


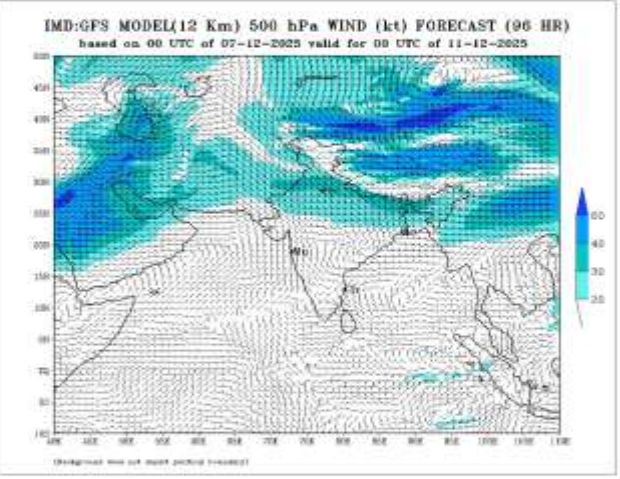


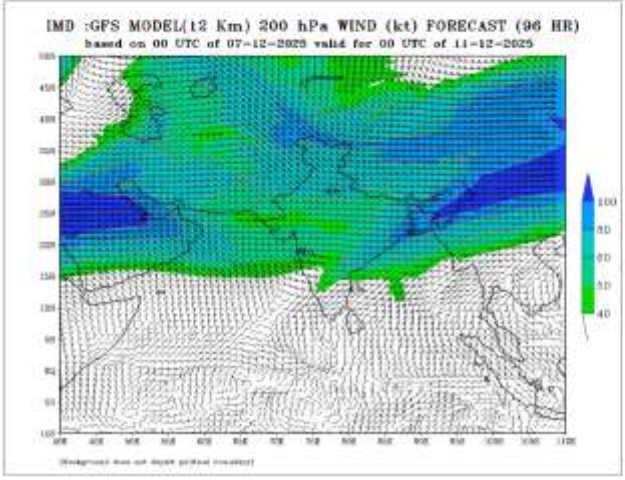
Forecast +96h



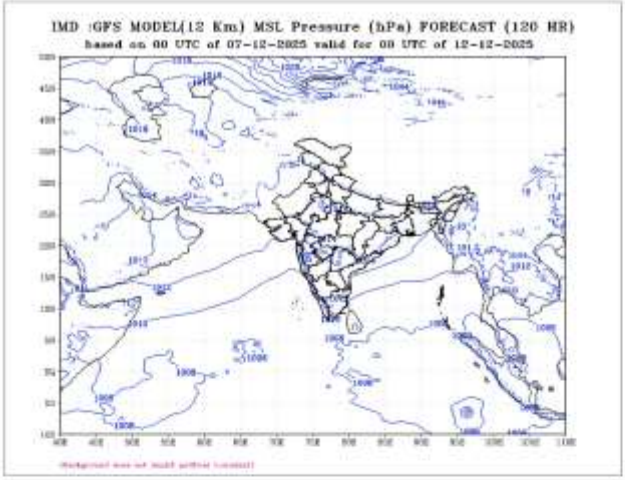


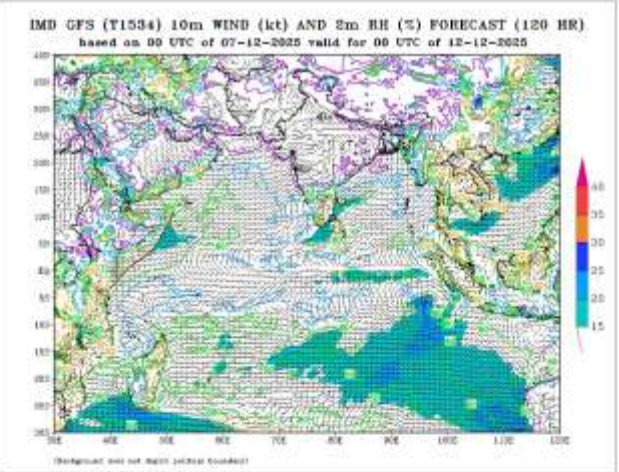


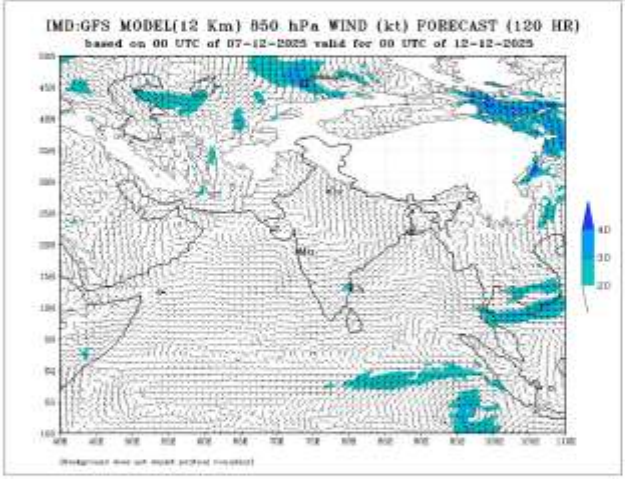


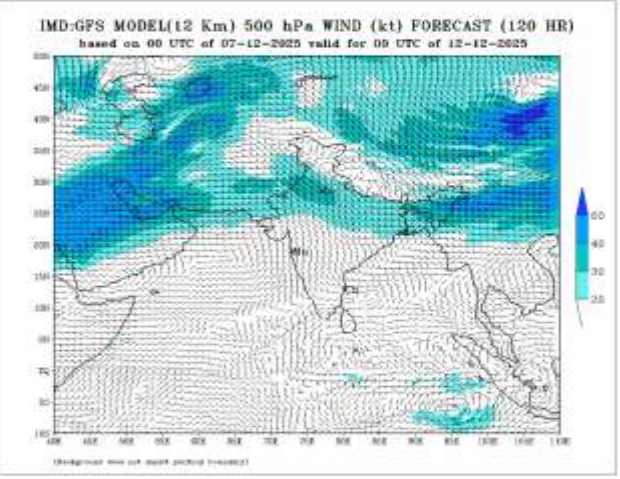


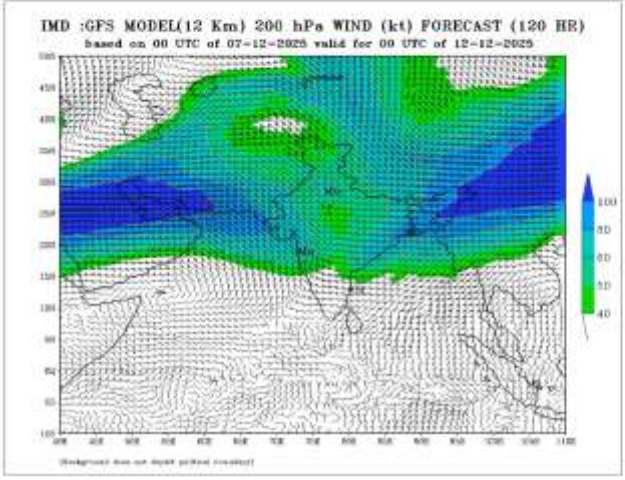
Forecast +120h



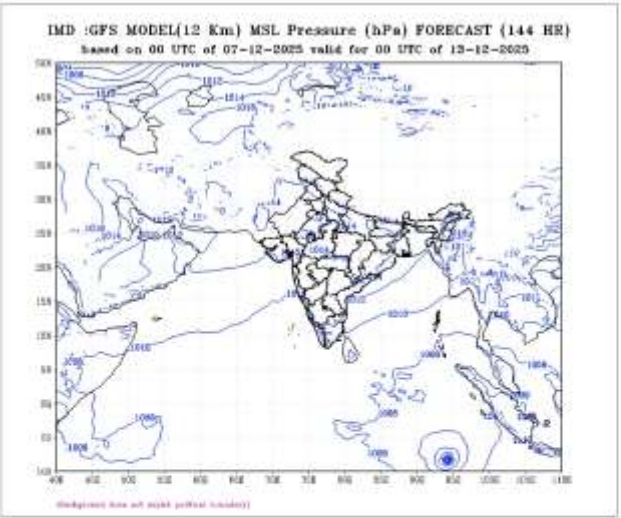


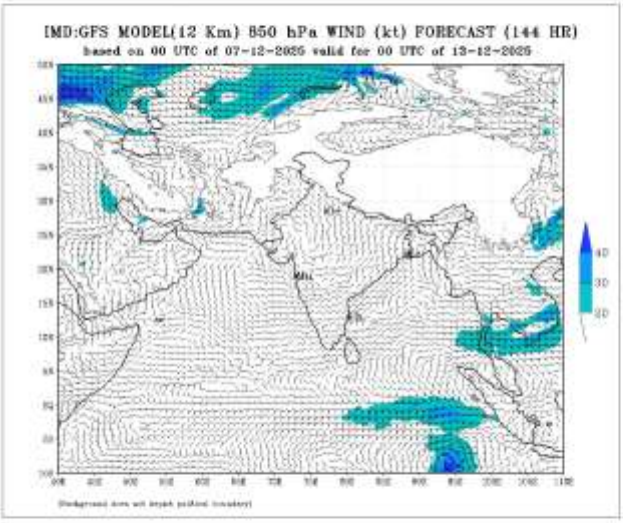


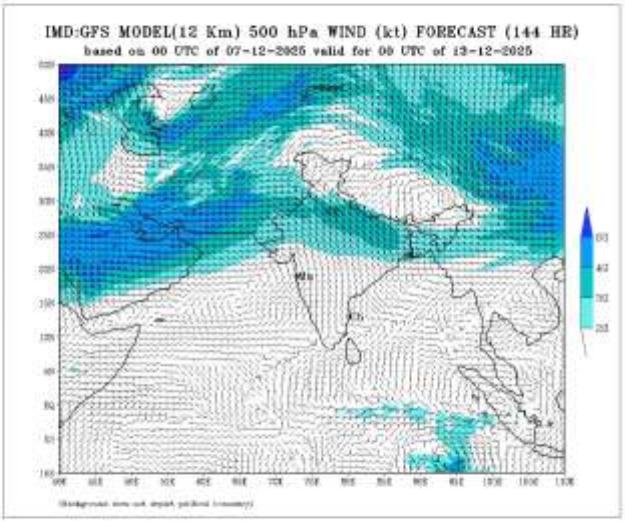


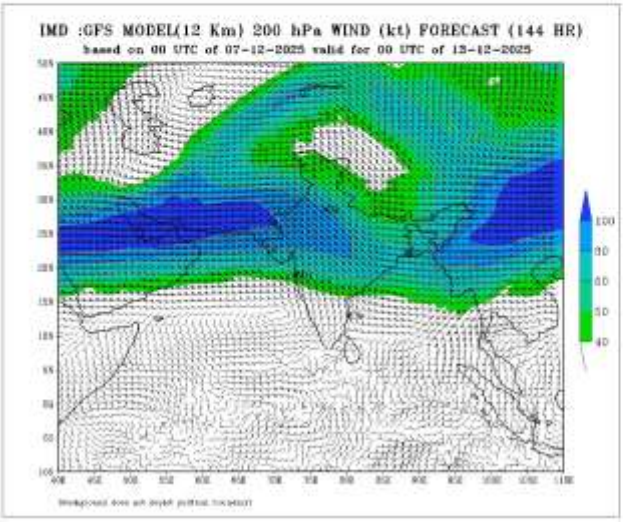


Forecast +144h









Forecast +168h