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

Tropical Cyclone Forecast Programme
Report Dated 16th November 2025

Time of Issue: 1300 UTC

Synoptic features (based on 1200 UTC analysis):

- Yesterday's Low-Pressure area over Southwest Bay of Bengal off Sri Lanka coast persisted over the same region at 0300 UTC of today, the 16th November 2025. The associated upper air cyclonic circulation extended upto 5.8 km above mean sea level tilting southwestwards with height. It is likely to move slowly west-northwestwards during the next 24 hours.
- Yesterday's cyclonic circulation over Southeast Arabian Sea and adjoining South Kerala coast at 0.9 km above mean sea level persisted over the same region at 0300 UTC of today, the 16th November 2025.

Environmental Features based on 0600 UTC:

Parameter	Bay of Bengal (BoB)	Arabian Sea (AS)
Sea Surface Temperature (SST) ºC	Around 28 - 30°C over entire BoB.	Around 28-29°C over eastern Arabian Sea. Around 27°C over rest AS
Tropical Cyclone Heat Potential (TCHP) kJ/cm^2	➢ 150-175 over south south Andaman Sea and southeast BoB. ➢ 100-120 over eastcentral, adjoining northeast BoB and over north Andaman Sea.	120-130 over southeast Arabian Sea.
Cyclonic Relative - vorticity (X10^{-6}s^{-1})	➢ 30-40 over southwest BoB and adjoining southeast Sri Lanka. and extending upto 500hPa. ➢ 30-40 over south Andaman Sea and extending upto 700 hPa.	➢ 10-20 over southeast and Comorin Area.
Low-Level convergence (X10-6 s-1)	➢ 05-10 over southwest Bay of Bengal and adjoining south Sri Lanka. ➢ 05 over westcentral Bay of Bengal. ➢ 05 over south Andaman Sea and adjoining east equatorial Indian Ocean..	➢ 5 over southeast Arabian Sea along & off Karnataka coast.
Upper-Level divergence (X10-6 s-1)	➢ 05-10 over southwest Bay of Bengal and adjoining Sri Lanka. ➢ 05 over eastcentral Bay of Bengal. ➢ 05-10 over south	No significant zone

	Andaman Sea and adjoining east equatorial Indian ocean.	
Vertical Wind Shear (VWS knots) **Low: 05-10 knots** **Moderate: 10-20 knots** **High: >20 knots**	Deep layer vertical wind shear is Low- Moderate over central & south BoB and high over north and adjoining central BoB. Mid layer vertical wind shear is Low-moderate over entire BoB and cyclonic.	Deep layer vertical wind shear is Low - Moderate over south, Arabian Sea, Lakshadweep islands & Comorin area and high over rest of Arabian Sea. Mid layer vertical wind shear is Low - Moderate over entire Arabian Sea and it is cyclonic.
Wind Shear Tendency (knots)	Decreasing over central and adjoining south BoB, Sri Lanka, Tamil Nadu coast and adjoining sea area.	Decreasing over western parts of AS.
Upper tropospheric Ridge	Ridge is running along 16°N in association with anticyclonic circulation over Eastcentral BoB near (16°N/90°E).	A ridge is running along 10°N.
GPP	Not available	Not available

M.J.O. Index:
Madden Julian Oscillation (MJO) index is presently in phase 6 with amplitude greater than 1 in the phase diagram. It will be in the same phase during next seven days. MJO is not likely to support convective activity over the North Indian Ocean region.

Equatorial waves guidance:
The tropical monitoring guidance from the NCICS indicates westerly wind anomaly (3-5 mps) over the southern parts of the North Indian Ocean (NIO), including the south Arabian Sea (AS) and south Bay of Bengal (BoB) adjacent to the North Equatorial Indian Ocean (NEIO) during next seven days. A comparatively weaker westerly wind anomaly is likely to prevail over the central parts of AS, southern peninsular India and the central parts of BoB till 17th. The easterly wind anomaly (1-3 mps) is likely over the northern parts of AS and BoB till 20th November. The easterly wind anomaly is likely to appear gradually over central BoB and adjacent parts of south BoB, whereas the westerly wind anomaly strengthened (5-7 mps) over south & central AS and the southern part of BoB adjacent to NEIO during the 18th to 20th November. The Equatorial Rossby Wave (ERW) is likely to be moving westwards across peninsular India and then central AS till 17th. During 18th to 20th, another spell of ERW is likely to propagate across the south BoB and adjoining NEIO. Thus, equatorial waves are likely to support the cyclonic circulation over southwest BoB to maintain its intensity or become a low till 17th November. During 18th to 20th, conditions are favourable for development of a cyclonic circulation over south Andaman Sea.

Regional dynamical features are supporting the existing low-pressure area over southwest Bay of Bengal off Sri Lanka coast to persist during next 24 hours. With the expected west-northwestward movement, it will interact with land surface and also will experience increasing wind shear. Hence it is not likely to intensify further. The upper level wind based on satellite suggests initial westward movement and then the northwestward movement under the influence of the ridge lying to the north of the system centre. There is a trough in mid-tropospheric westerlies along 85 deg. E to the north of 25 deg. N which is preventing

westwards movement and hence the LPA will move slowly initial westward movement and then the northwestward. Considering low level vorticity, it is oriented from east-southeast to west-northwest towards Sri Lanka coast. The relative vorticity is increasing with height and extends upto 500 hPa level. It is maximum at 500 hPa level. The lower level convergence and upper level divergence have decreased in past 24 hours.

Favorable features like low to moderate clockwise wind shear and positive vorticity and low level convergence & upper level divergence and favourable equatorial waves are likely to support the LPA to maintain its intensity during next 24 hours.

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

The convective cloud mass in association with the LPA is over southwest Bay of Bengal off Sri Lanka coast and neighbourhood. Associated scattered to broken low and medium clouds with embedded intense to very intense convection lay over southwest and central Bay of Bengal, Sri Lanka, Palk Strait, and northeast Tamil Nadu (minimum CTT minus 70–90°C).

Over the Arabian Sea:
As per INSAT 3DS at 0600 UTC, scattered low and medium clouds with embedded moderate to intense convection lay over the northern parts of south Arabian Sea.

Outside India:
As per INSAT 3DS at 0600 UTC, Scattered low and medium clouds with embedded moderate to intense convection lay over Sri Lanka, Palk Strait, Gulf of Mannar, south Maldives, Tibet, China, Gulf of Thailand, Cambodia, Laos, Vietnam, Sumatra, Strait of Malacca, Malaysia, Borneo, South China Sea, Java Islands and Sea, Celebes Islands and Sea, Philippines, Sulu Sea, north Madagascar, Mozambique Channel, and over the Indian Ocean between latitudes 5.0°N to 10.0°S and longitudes 55.0°E to 110.0°.

NWP Guidance for FDP Cyclone:

MODEL GUIDANCE	Bay of Bengal (BoB)	Arabian Sea (AS)
IMD-GFS	➢ Model is not capturing existing LPA over southwest BoB off Sri Lanka coast. It is indicating an east-west trough over southwest BoB on 16/00 to move westwards towards south AS across Comorin Area by 20/00. It is indicated to become less marked thereafter. ➢ Model is indicating increase in easterlies over the Andaman Sea & eastcentral BoB during 16th-18th and development of a fresh cyclonic circulation over southeast BoB on 19/00. It is indicated to move westwards and consolidate into an LPA over southwest BoB on 20/00, with slow	Emergence of the LPA over BoB into southeast Arabian Sea on 25/00 UTC. It is indicated to move westwards with no further intensification till 26/00 UTC.

	westwards movement towards southeast AS till 24/00. ➢ Model is also indicating emergence of a fresh cyclonic circulation over South Andaman Sea on 25/00. It is indicated to move westwards and intensify rapidly over southeast BoB on 26/00.	
IMD-GEFS	Not available	Not available
IMD-WRF	Not available	Not available
BFS	➢ Model is not capturing existing LPA over southwest BoB off Sri Lanka coast. It is indicating an east-west trough over southwest BoB on 16/00 to move westwards reaching southeast AS across Comorin Area by 19/00. It is indicated to move westwards and become less marked on 21/00. ➢ Model is indicating increase in easterlies over the Andaman Sea & eastcentral BoB during 16th-18th and development of a fresh cyclonic circulation over southeast BoB on 19/00. It is indicated to move westwards and consolidate into an depression over southwest BoB on 20/00, with westwards movement across North Sri Lanka and crossing over South Tamil Nadu near Tondi on 22/00. ➢ Model is also indicating emergence of a fresh cyclonic circulation over South Andaman Sea on 22/12. It is indicated to move westwards and intensify into a depression over South Andaman Sea on 23/00. It is indicated to move westwards with further intensification till 26/00. Another depression is also indicated over South Andaman Sea on 26/00. ➢ The guidance is not consistent.	The model is indicating the remnant of system over BoB which crossed near Tondi (Tamil Nadu) on 22/00 to move across south Tamil Nadu & Kerala and emerge into southeast AS on 23/00. It is indicated to move west-northwestwards with further intensification towards central AS till 26/00.
NCMRWF-NCUM(G)	➢ Model is not capturing existing LPA over southwest BoB off Sri Lanka coast. It is indicating a cyclonic circulation over southwest BoB on 16/00. To move westwards towards southeast AS till 19/00. ➢ A fresh cyclonic circulation is seen over central part of south BoB on 19/00. It is indicated to move westwards towards Srilanka till 22/00 and thereafter it is indicated to move north-westwards towards north Tamilnadu, crossing near Chennai as a Well-Marked Low-Pressure Area on 25/00.Threafter it is indicated to move slowly northwards	Emergence of the cyclonic circulation over BoB into Comorin area on 20th .

	along the coast till 26/00.	
NCMRWF-NCUM(R)	➢ A cyclonic circulation over southwest BoB on 16/00 to move slowly westwards towards Comorin area. ➢ A fresh cyclonic circulation over central parts of south BoB on 19/00 UTC.	No significant system is indicated during next 3 days.
NEPS	➢ A cyclonic circulation over southwest BoB off Srilanka on 16/00 .It is indicated to consolidate into a LPA on 17/00 and gradually move westwards. ➢ Another LPA is indicated over central parts of south BoB on 20/00, it is indicated to intensify into a depression on 22/00 over southwest BoB. It is indicated to move north-westwards with intensification towards Tamilnadu coast till 24/00.Thereafter it is indicated to move slowly north-eastwards and cross South Andhra -north Tamilnadu coast on 26/00.	No significant system is indicated during next 7 days.
ECMWF	Existing LPA over southwest BoB off Sri Lanka is not captured by the model. It is seen as an upper air cyclonic circulation over southwest BoB upper air cyclonic circulation over southwest BoB off south Sri Lanka coast on 16/00 with gradual west-northwestwards movement and emergence into southeast AS by 22/12. Formation of an LPA over southeast BoB & adjoining south Andaman Sea on 23/12. To move nearly westwards, intensify into a depression over southeast & adjoining southwest BoB on 24/12. To move initially west-northwestwards towards southwest BoB till 26/00 and then northwestwards towards Andhra Pradesh coast with gradual intensification.	Emergence of upper air cyclonic circulation into AS on 22/12, becoming less marked on 23/00.
NCEP-GFS	Existing upper air cyclonic circulation over southwest BoB off south Sri Lanka coast as on today, to move west-northwestwards till 16/18 UTC and less marked thereafter. Model is indicating an LPA over southwest BoB on 23/00 with further intensification and movement towards TamilNadu coast by 27/00. Another depression is indicated over eastcentral BoB around 27/00. Both the systems are seen interacting from 27/12 onwards and merging into a single system by 30/12 over westcentral BoB. Thereafter, it is indicated to move north-northeastwards towards Bangladesh.	No significant system is indicated during next 7 days.
EC-AIFS	Existing LPA over southwest BoB off south Sri Lanka coast to move slowly westwards and	Emergence of LPA over southeast AS on 19/00.

	emerge into southeast AS by 19/00. Another LPA is indicated over southwest BoB off South Sri Lanka on 25/12, becoming depression over same region on 27/00 with slow northwards movement over southwest BoB along Sri Lanka coast till 30/12.	Becoming less marked on 20/00.

Summary:

(a) Bay of Bengal:

Most of the numerical models indicate the prevalence of existing LPA over southwest BoB off Sri Lanka coast to move west-northwestwards during next 24 hours. Further, the models are also indicating the emergence of a fresh cyclonic circulation into South Andaman Sea around 18th/19th November. However, there is large variation among various models wrt area of formation/ time of formation of LPA/depression & their further intensification and movement. Thus, the BoB region is under continuous watch for any significant development around 24th November.

(a) Arabian Sea

Most of the models are indicating no significant system over the Arabian Sea during next 7 days. However, some models are indicating existing LPA or its remnant to emerge into southeast AS around 18th November.

Inference:

Considering various large-scale environmental features, climatology and model guidance, it is inferred that

a. the existing low pressure area over southwest Bay of Bengal off Sri Lanka coast is likely to move nearly west-northwestwards during the next 24 hours.

b. another upper air cyclonic circulation is likely to emerge over the South Andaman Sea & adjoining southeast BoB around 19th November. Under its influence, a low-pressure area is likely to form over the southeast Bay of Bengal around 21st November and there is also low probability of it's further intensification into a depression over the same region around 23rd November.

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

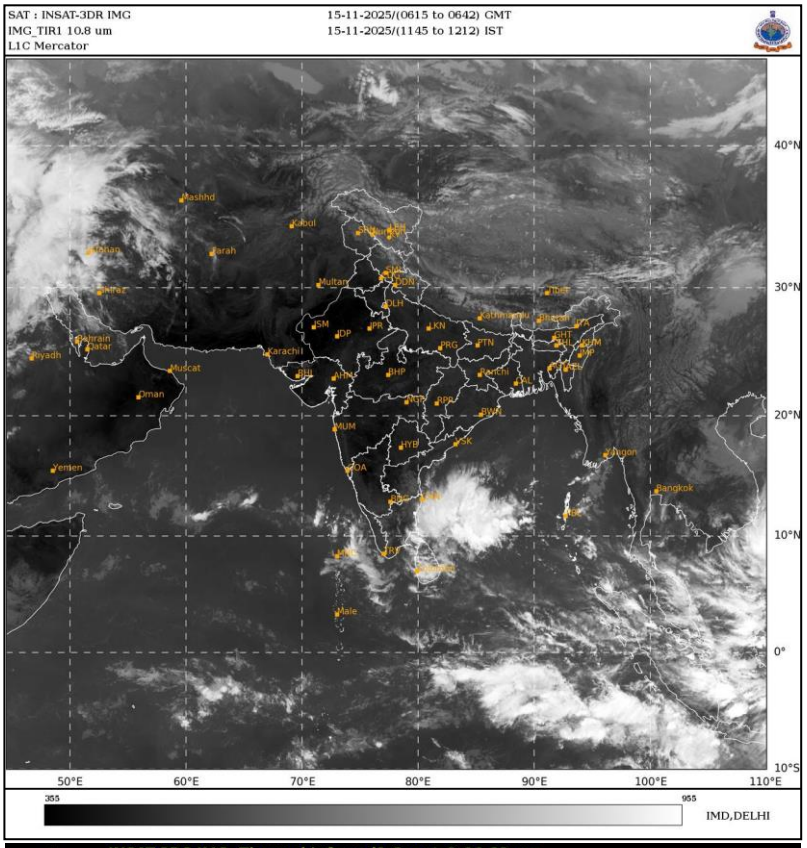
Probability of cyclogenesis (formation of depression and above intensity systems) over the Arabian Sea during next 168 hours:

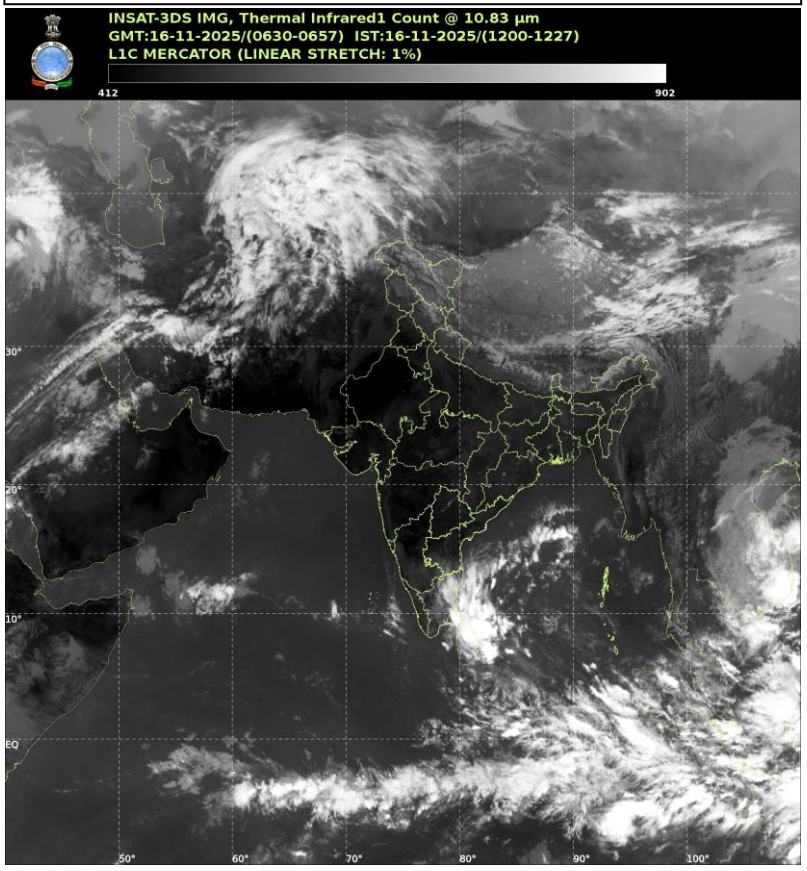
24 HOURS	24-48 HOURS	48-72 HOURS	72-96 HOURS	96-120 HOURS	120-144 HOURS	144-168 HOURS
NIL	NIL	NIL	NIL	NIL	NIL	NIL

"- "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): Sri Lanka, Tamil Nadu for 15th; Sri Lanka, Tamil Nadu & south Andhra Pradesh for 16th November.

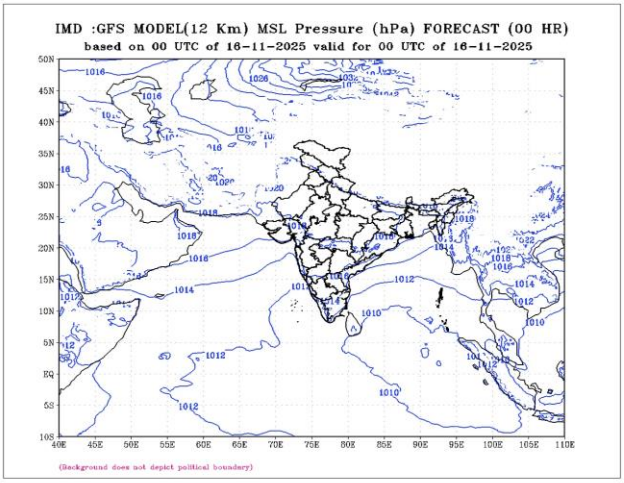
INSAT 3DS imageries at 0600 UTC of 15th & 16th November

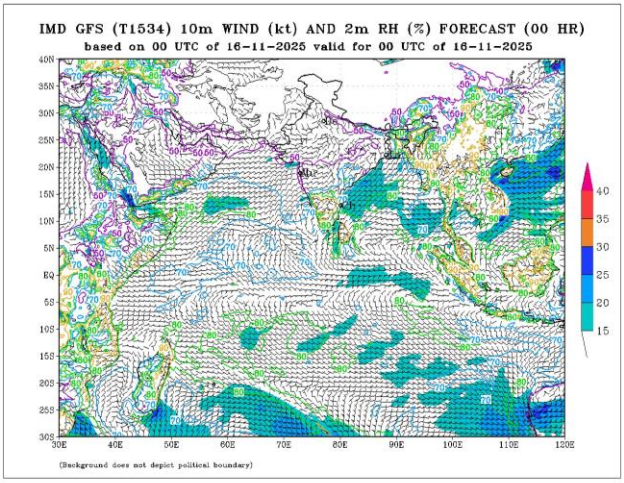


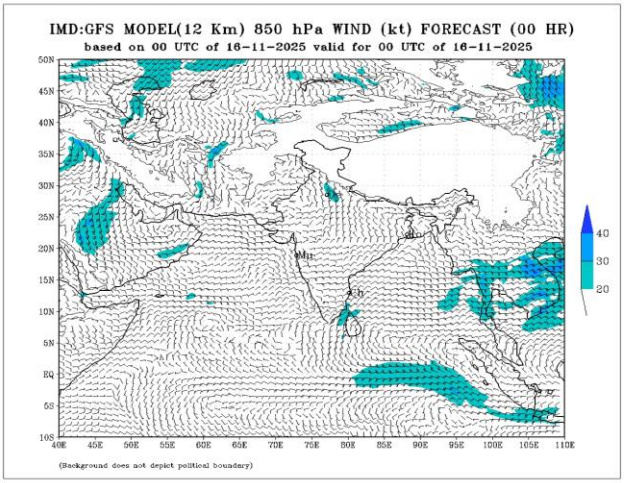


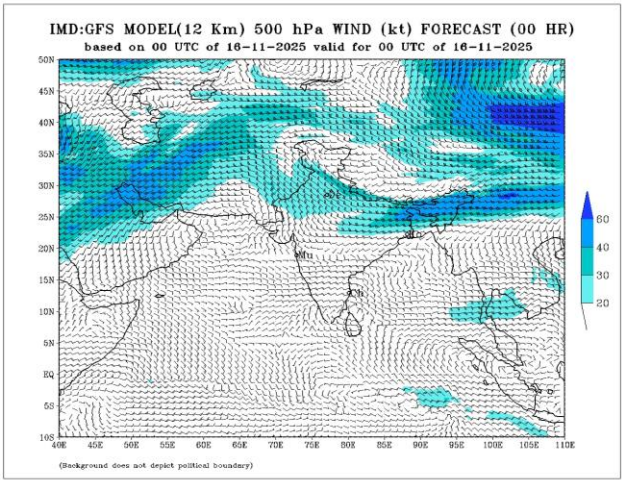
Annexure

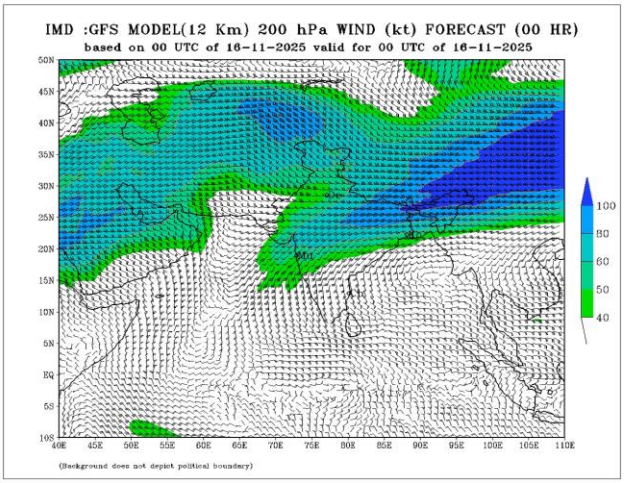
Forecast +00h



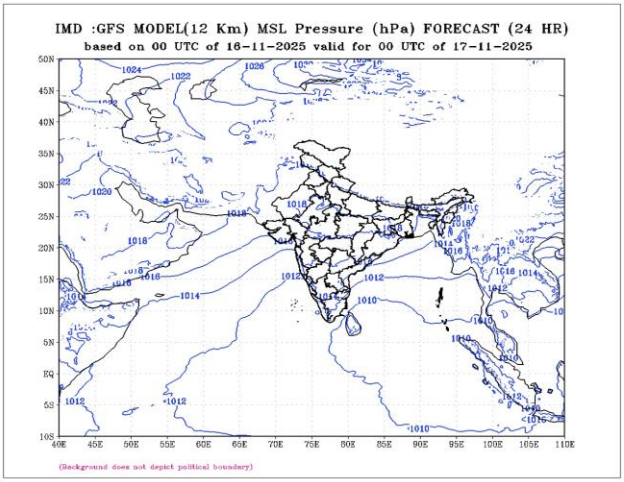


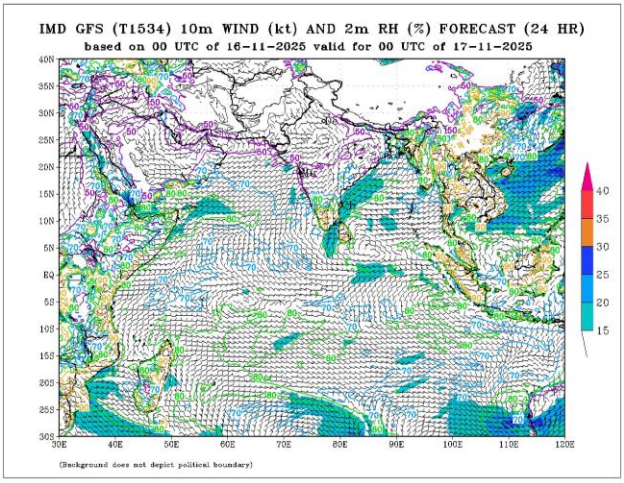


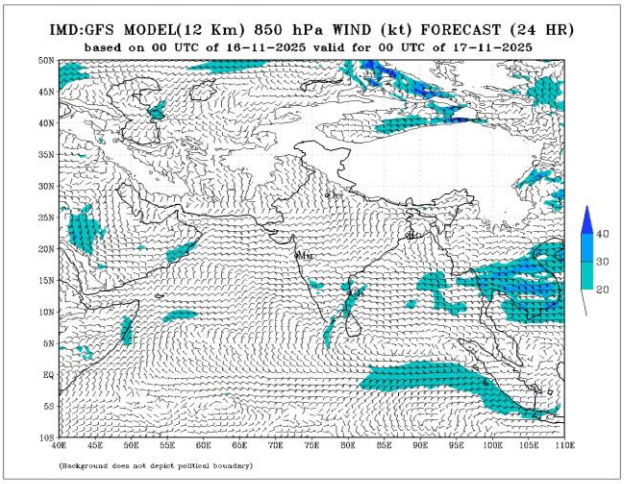


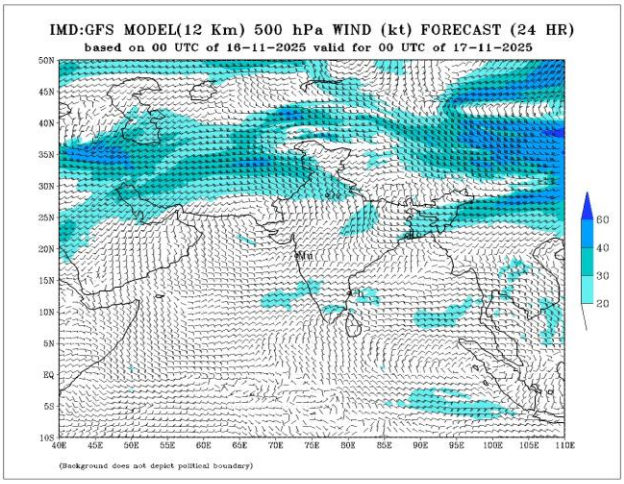


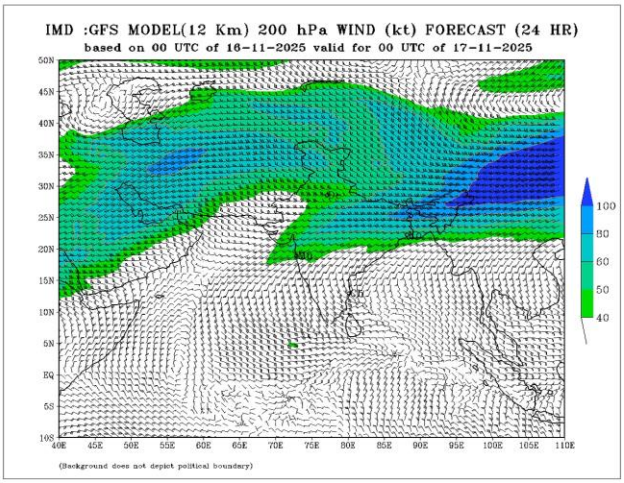
Forecast +24h



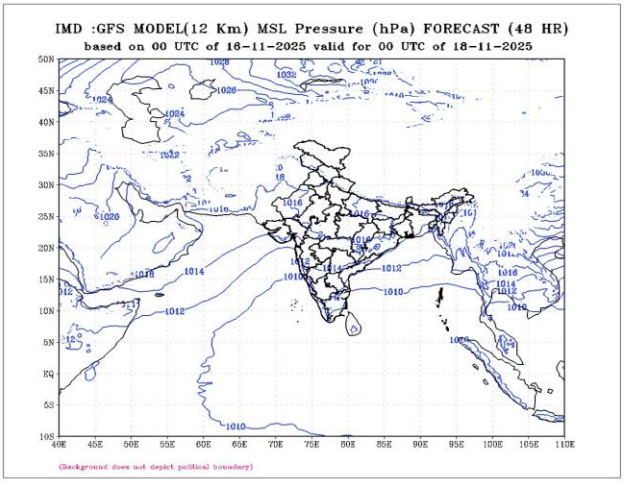


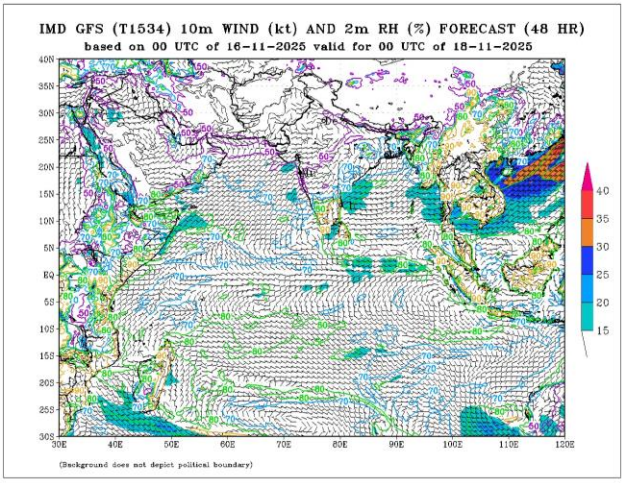


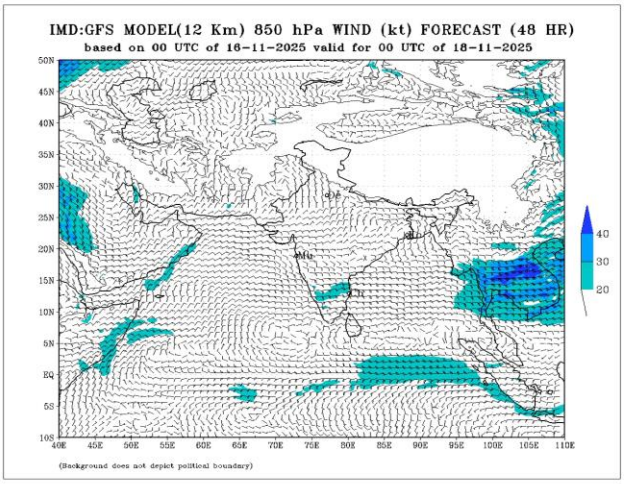


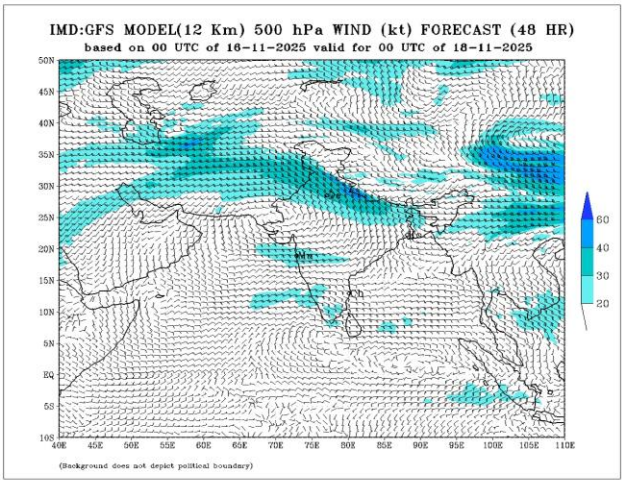


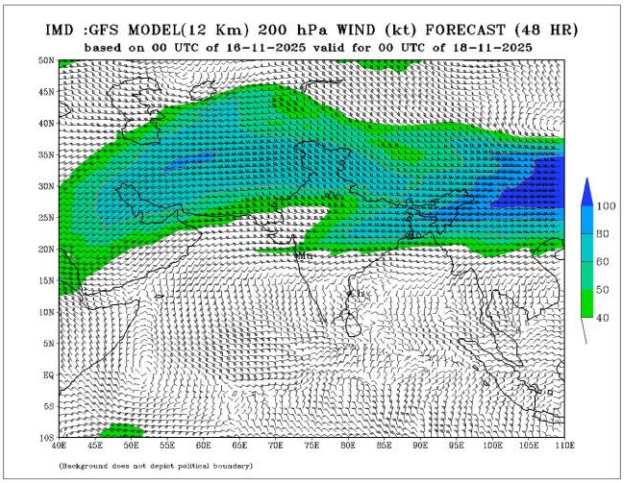
Forecast +48h



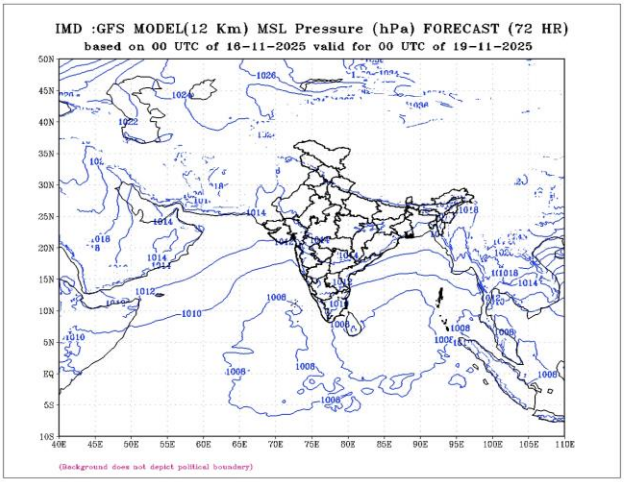


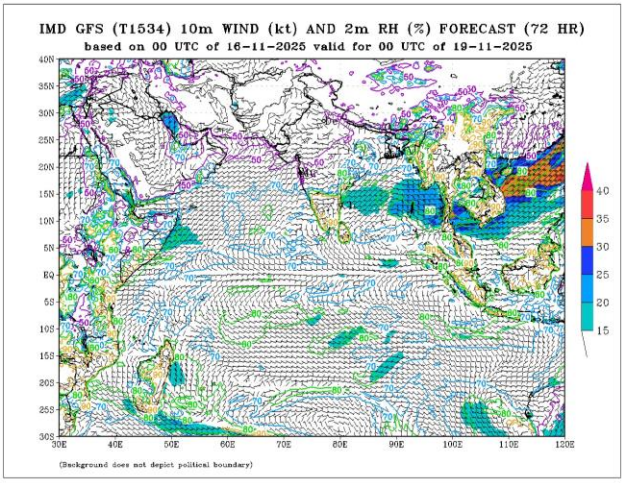


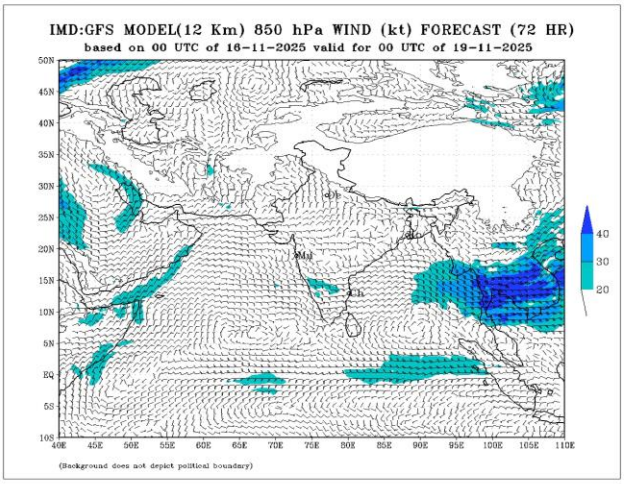


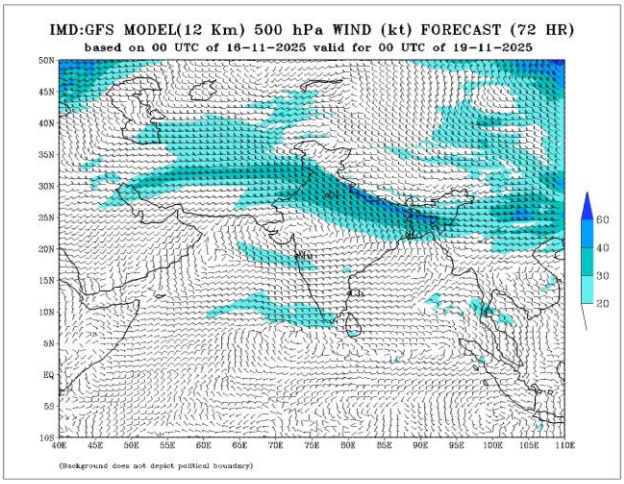


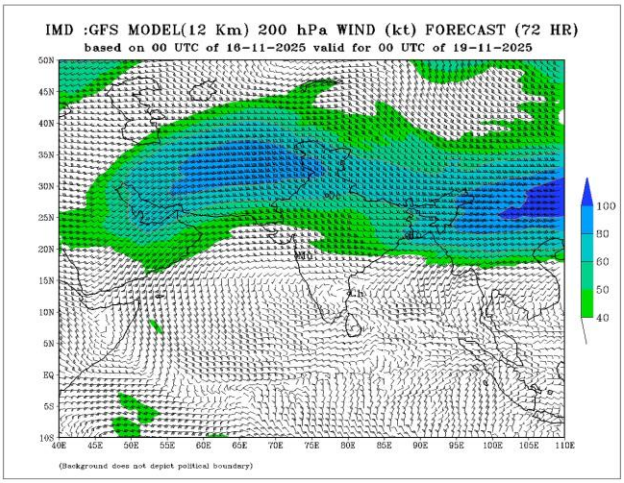
Forecast +72h



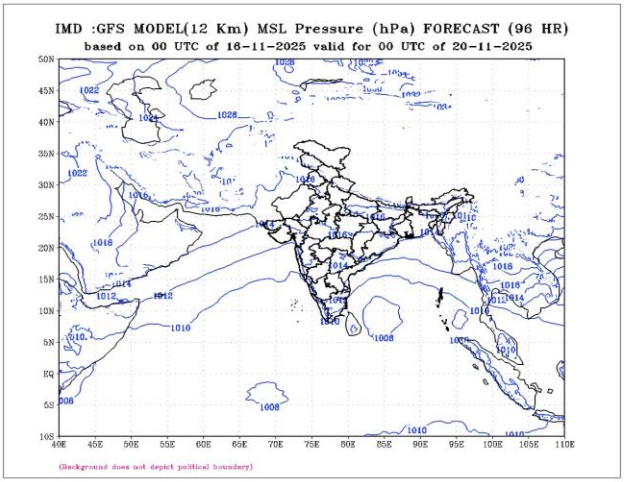


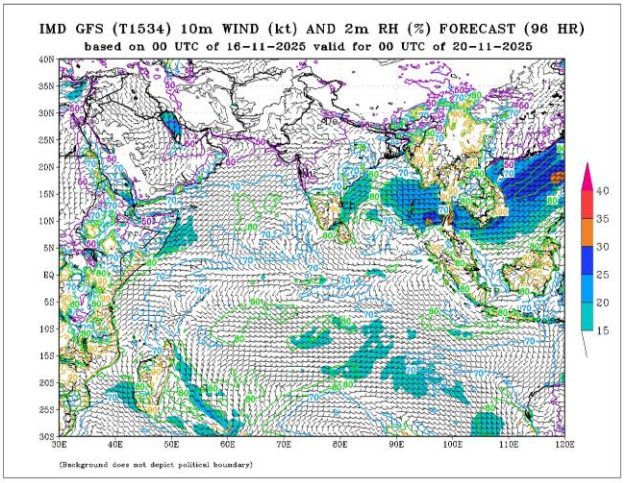


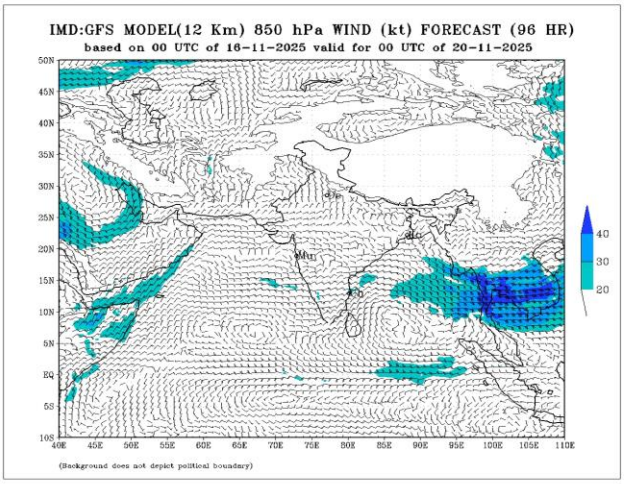


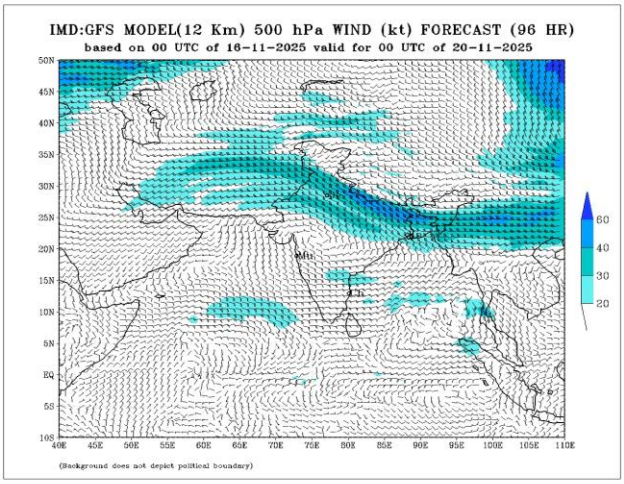


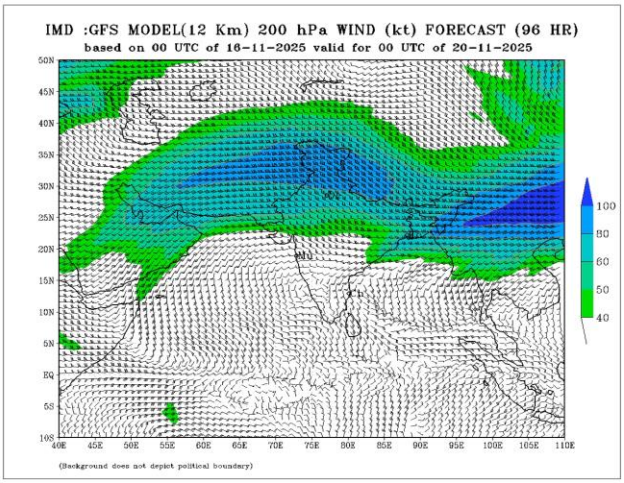
Forecast +96h



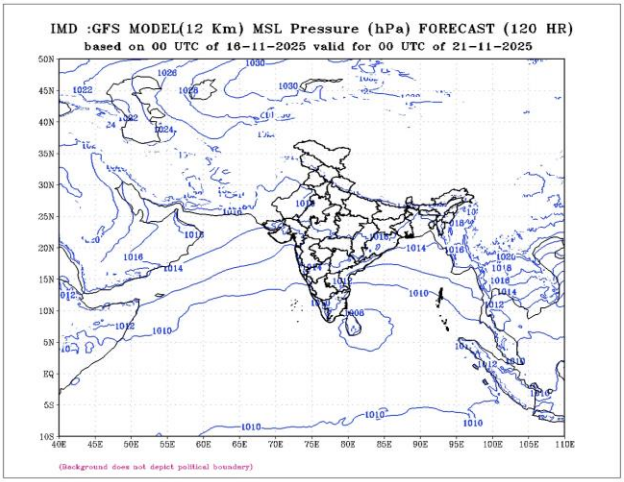


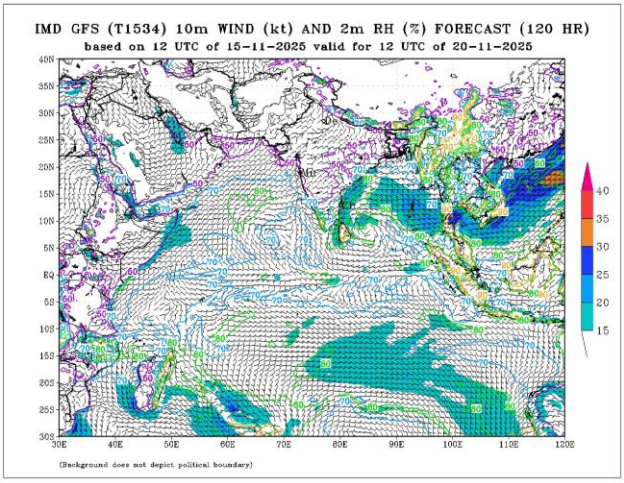


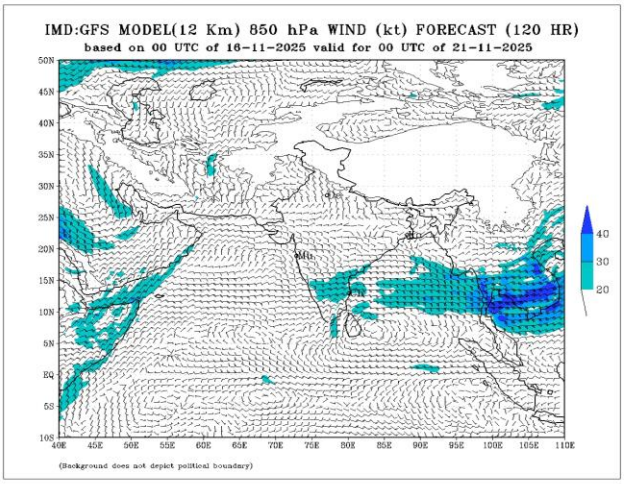


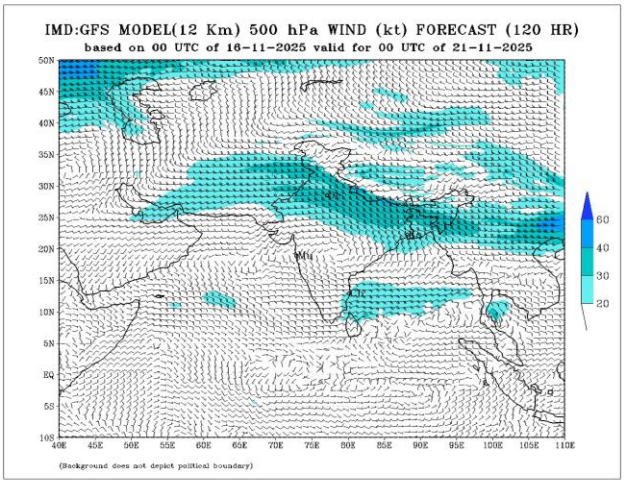


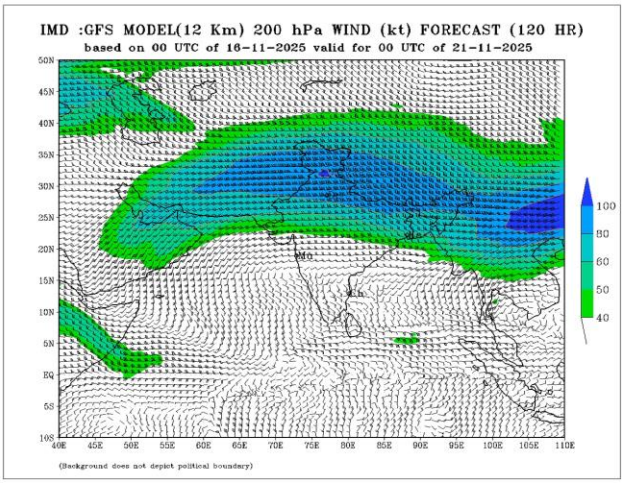
Forecast +120h



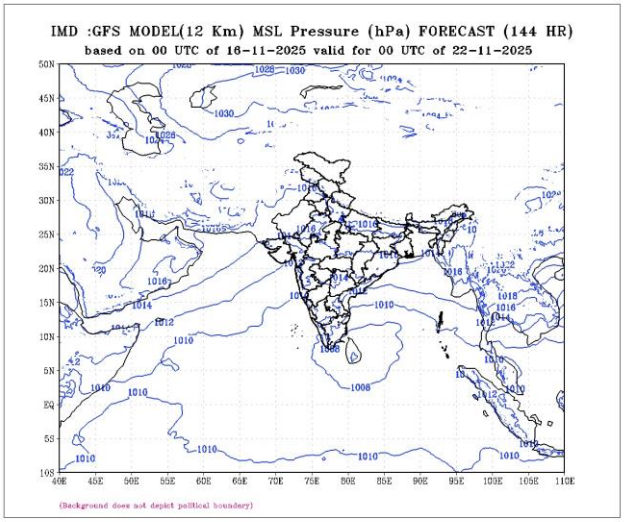


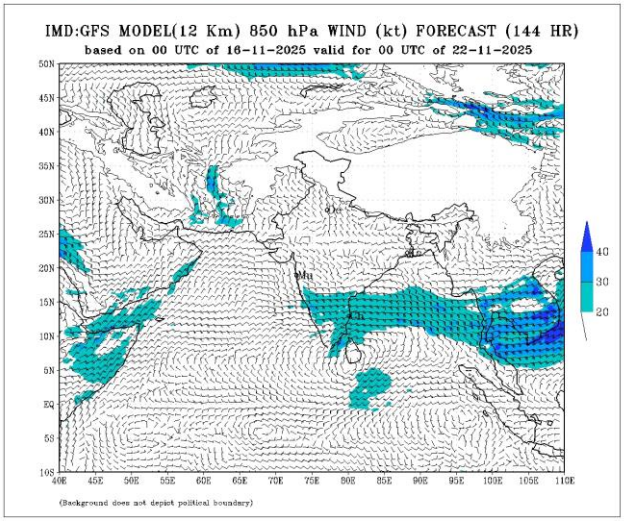


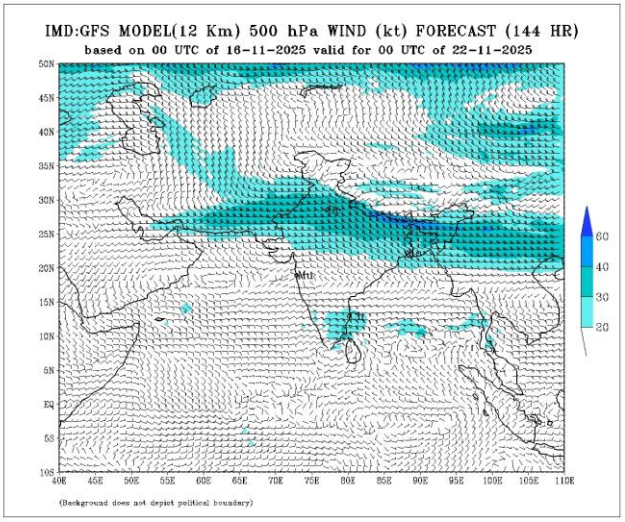


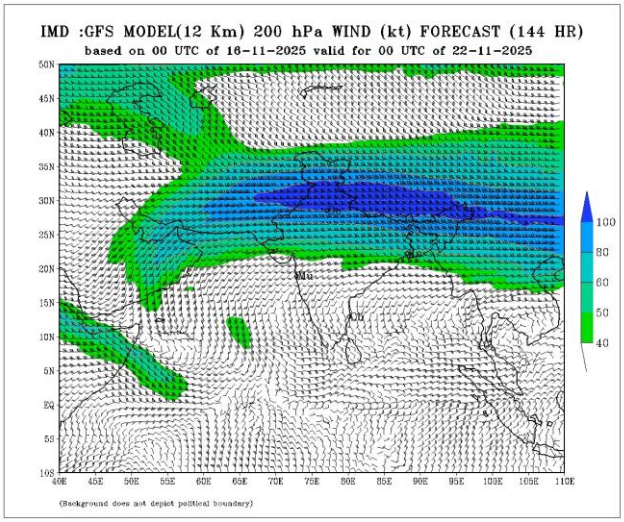


Forecast +144h









Forecast +168h