



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

Tropical Cyclone Forecast Programme
Report Dated 16th October 2026

Time of Issue: 0900 UTC

Synoptic features (based on 0600 UTC analysis):

- ❖ Yesterday's upper air cyclonic circulation over south coastal Tamil Nadu became less marked at 0600 UTC of today, the 16th October, 2026.
- ❖ Yesterday's upper air cyclonic circulation over the southeast Arabian Sea & adjoining Lakshadweep lay over northern parts of Lakshadweep & neighborhood extending up to 5.8 km above mean sea level at 0600 UTC of today, the 16th October, 2026.

Environmental Features based on 0300 UTC:

Parameter	Bay of Bengal (BoB)	Arabian Sea (AS)
Sea Surface Temperature (SST) °C	Around 28 - 30°C over entire BoB.	Around 27 - 29°C over entire AS.
Tropical Cyclone Heat Potential (TCHP) kJ/cm²	120-130 over most parts of BoB with 140-150 over southeast & adjoining southwest of BoB.	120-130 over eastcentral and southeast of AS
Cyclonic Relative - vorticity ($\times 10^{-6} \text{s}^{-1}$) at 850 hPa	40-50 over southwest BoB along & off Andhra Pradesh-Tamil Nadu Coasts.	60-70 over southwest AS & adjoining Equatorial Indian Ocean (EIO) 20-30 over parts of southeast & westcentral AS.
Cyclonic Relative - vorticity ($\times 10^{-6} \text{s}^{-1}$) at 500 hPa	30-40 over southwest BoB & 20-30 over eastcentral & adjoining westcentral BoB.	60-70 over southwest AS & adjoining Equatorial Indian Ocean (EIO) 40-50 over South Kerala coast.
Low-Level convergence ($\times 10^{-6} \text{s}^{-1}$)	5-10 over parts westcentral BoB off South Odisha-North AP Coasts. 5 over southwest BoB to the northeast of Sri Lanka.	5-10 over southwest AS. 10-15 over southeast AS
Upper-Level divergence ($\times 10^{-6} \text{s}^{-1}$)	5-10 over westcentral & adjoining southwest BoB.	5 over southwest AS 5-10 over eastcentral and adjoining southeast AS along & off Karnataka - Kerala Coasts
Vertical Wind Shear (VWS) Low: 05-10 knots Moderate: 10-20 knots High: >20 knots	Low over central and south BoB. High over North & adjoining central BoB.	Low to moderate over south & adjoining central AS. High wind shear over north and adjoining central AS.
Wind Shear Tendency (knots)	Increasing over southwest BoB off North Sri Lanka coast. Decreasing over most parts of southwest BoB off south Sri Lanka coast.	Decreasing (5-10) over westcentral AS. Decreasing (5-10) southwest AS and adjoining Somalia.

		Increasing over rest of the area.
Upper tropospheric Ridge	Ridge is running along 15°N in association with anticyclonic circulation over southwest Myanmar	A ridge is running along 12°N in association with anticyclonic circulation over Katakana coast
GPP	NA	NA

M.J.O. Index:

The guidance from various numerical models indicate that the Madden Julian Oscillation (MJO) is currently in Phase 3 with amplitude close to 1. It is likely to continue in same phase during next 7 days. Thus, MJO is favorable for enhancement of convective activity and cyclogenesis over the North Indian Ocean (NIO) including the Bay of Bengal (BoB) and the Arabian Sea (AS) during both the weeks.

Equatorial waves guidance:

The guidance from the NCICS model indicates the prevalence of westerly wind anomaly (7-9 mps) alongwith Equatorial Rossby Wave (ERW) over southwest BoB & easterly wind anomaly (7-9mps) alongwith Kelvin Wave (KW) over central BoB during next 2 days. Thereafter, the model is indicating westerly wind anomaly (3-5mps) over south BoB along with ERW & MJO wave and easterly wind anomaly (5-7 mps) over northern parts of India and adjoining north BoB during 18th-23rd Oct. These features indicate a favorable environment for development of cyclonic circulation /Low pressure area over central BoB during next 7 days.

Over the AS, the NCICS model is indicating westerly wind anomaly (7-9 mps) over southeast AS alongwith ERW & MJO wave and easterly wind anomaly (5-7 mps) to its north over southeast & adjoining eastcentral AS during 16th-17th Oct, indicating a favourable environment for upper air cyclonic circulation over Lakshadweep and neighbourhood during next 2 days. Similar features are also seen over north AS off Gujarat coast, indicating a favourable environment for the Western Disturbance over Northwest India. During 21st-23rd, there will be ERW, MJO & KW will persist which may support fresh development of cyclonic circulation/ low pressure area over the region.

Over the Bay of Bengal & Andaman Sea:

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

Over the Arabian Sea:

As per INSAT 3DS at 0600 UTC, scattered to broken low and medium clouds with embedded intense to very intense convection over southeast Arabian Sea off Kerala - Karnataka coast adjoining Lakshadweep Islands area and southwest Arabian Sea. Scattered to broken low and medium clouds with embedded moderate to intense convection over rest southeast Arabian Sea, Maldives & Comorin area and isolated weak to moderate convection over central 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, Maldives area, Pakistan, Tibet, China, Yellow Sea, east China Sea, Myanmar, Thailand, Gulf of Thailand, Cambodia, Laos, Vietnam, Sumatra, Strait of Malacca, Malaysia, Borneo, south China Sea, Philippines, Sulu Sea and over Indian ocean bet latitude 5.0N to 10.0S longitude 40.0E to 100.0E.

NWP Guidance for FDP Cyclone:

MODEL GUIDANCE	Bay of Bengal (BoB)	Arabian Sea (AS)
IMD-GFS	Upper air cyclonic circulation over westcentral and adjoining southwest BoB off south AP- north TN Coasts on 16/00. To move gradually southwestwards and merge with upper air cyclonic circulation over interior Tamil Nadu by 18/00. It is indicated to emerge as a trough over SE AS on 21/00 and move westwards till 23/00. Model is also indicating a prominent easterly wave over BoB with trough along 16N/95E and another around 16N/88E over the BoB.	Upper air cyclonic circulation over southwest AS on 16/00, to persist over same region till 23/00 and becoming less marked by 26/00.
IMD-GEFS	Model is indicating a trough extending from south AP to south Kerala during 16/00 to 18/12 with gradual westward movement. No other significant system during next 7 days.	Cycir over southwest AS on 16/00 to persist till 18/00, becoming low pressure are during 18/00 to 19/12 over the same region and less marked thereafter.
BFS	Similar to IMD GFS	Similar to IMD GFS
MITHUNA	A trough extending from westcentral to northwest BoB during 17/00 to 19/00. It is seen a s a Cycir over interior TN on 21/00. It is indicated to emerge on southeast AS on 23/00 and intensify into a depression over southeast and adj eastcentral AS 25/00. It is indicated to intensify further with nearly northwards movement till 26/00 Cycir over Gulf of Thailand to emerge into south Andaman Sea on 20/00, to move gradually northwestwards. It is indicated to intensify gradually into a low-pressure area over westcentral and adj southeast BoB on 23/00, into a depression over westcentral BoB on 25/00.	Cycir over southwest AS on 16/00, to persist over same region with marginal intensification till 21/00 and move west northwestwards towards Gulf of Aden
NEPS	Cycir to emerge into south Andaman Sea on 20/00, it is indicated to move north-westwards with intensification towards westcentral BoB till 26/00. Cycir over westcentral BoB and adj AP Coast on 17/00 to slowly west south-westwards and emerge into southeast AS on 22/00. It is indicated to move nearly north-westwards till 26/00	Cycir over southwest AS on 16/00. To intensify gradually into a depression over same region on 18/00 and move slowly northwestwards towards Gulf of Aden touching Somalia coast till 25/00 with intensification up to Depression category.
ECMWF	Cycir to emerge into south Andaman Sea on 23/00. It is indicated to intensify to low pressure area over north Andaman Sea on 25/00, into a depression over southeast and	Cycir over southwest AS on 16/00, to intensify into a low-pressure

	adj eastcentral BoB on 27/00. It is indicated to intensify further and move towards Odisha coast.	area on 17/00. It is indicated to persist over same region till 21/00 Cycir to emerge into southeast AS on 22/00, to intensify to low pressure area over southeast and adj eastcentral AS on 21/00, into a depression over same region on 24/00. It is indicated to intensify further and move initially northwestwards and then north northeastwards towards south Gujarat coast towards south Gujarat coast.
NCEP-GFS	No significant system is indicated over BoB during next 7 days.	Cycir over southeast AS on 18/00, to intensify into a low-pressure area over southwest AS on 19/00 and further into a depression over southwest BoB on 20/00 with west northwestwards movement. It is indicated to intensify further and move west northwestwards towards Gulf of Aden crossing north Somalia Coast.
EC-AIFS	No significant system is indicated over BoB during next 7 days.	Low pressure area over southeast AS on 24/00. It is indicated to intensify further into a depression over eastcentral AS on 28/00. Thereafter, it is indicated to intensify further and move initially northwards and then northwestwards towards south Konkan-Goa coasts till 29/00.
IMD AURORA	Cycir over westcentral BoB on 17/00, to move gradually southwestwards across southwest AS and south peninsular India & emerge into southeast AS on 25/00.	Cycir over southwest AS to persist over same region till 23/00 and less marked thereafter.
IMD FGN	Cycir over westcentral BoB on 18/00, to persist over same region till 19/00. Cycir over Gulf of Thailand to emerge into south Andaman Sea on 20/00 and move nearly westwards towards TN coast till 23/00. Fresh Cycir over westcentral BoB on 24/00 to move nearly northwards near Bangladesh coast.	Cycir over southwest AS to persist over same region till 25/00 and less marked thereafter.
IMD FCN	Trough extending from southwest BoB to northwest BoB off AP-Odisha Coasts during 18/00-19/00.Cycir over westcentral and adjoining southwest BoB off south AP on 20/00 and 21/00.	Cycir over southwest AS on 17/00, to gradually move west northwestwards and intensify further into a depression on 19/00, intensify further and cross north Somalia coast on 23/00

	Cycir emerging into south Andaman Sea on 19/00 with gradual westwards movement till 22/00. Both Cycir mentioned above are indicated to merge on 22/00 over TN and move gradually westwards and emerge into eastcentral and adj southeast AS on 25/00. Model is indicating further NW movement and intensification on system on 26/00	
NCMRWF FOURCAST NET	Cycir over westcentral BoB off AP Coast on 16/00 to slowly move south-westwards across coast and emerge into southeast AS on 21/00. Thereafter, it is indicated to west north-westwards without significant intensification. Cycir to emerge into south Andaman Sea on 20/00. Becoming less marked on 22/00.	Cycir over southwest AS on 16/00 to persist over same region till 21/00
NCMRWF GRAPHCAST	Similar to NCMRWF FOURCAST NET	Similar to NCMRWF FOURCAST NET
NCMRWF PANGU	Cycir over westcentral BoB off south AP coast on 16/00 to persist over same region till 22/00. Cycir to emerge in south Andaman Sea on 20/00 and merge with above mentioned Cycir on 22/00 over central BoB and intensify to low pressure area on 22/00, it is indicated to intensify further and move nearly north-westwards towards Best Bengal - Bangladesh coasts.	Cycir over southwest AS on 16/00 to persist over same region, intensify into low pressure area on 18/00 and move slowly west northwestwards towards Gulf of Aden till 26/00

Legends:

IMD GFS: India Meteorological Department Global Forecast System, IMD GEFS: India Meteorological Department - Global Ensemble Forecast System, BFS: Bharat Forecast System, Mithuna: National Centre for Medium-Range Weather Forecasting Centre (NCMRWF), NEPS: NCUM ensemble prediction system, ECMWF: European Centre for Medium-Range Weather Forecasting, NCEP GFS/GEFS/CFS: National Centre for Environment Prediction GFS/GEFSv12/CFSv2, EC-AIFS: ECMWF Artificial Intelligence Forecasting System, IMD AURORA: Artificial Intelligence Unified Regional Operational Rainfall Assessment, IMD FGN : India Meteorological Department - Forecast Guidance Network, IMD FCN : India Meteorological Department - Forecast Consensus Network

Summary:

(a) Bay of Bengal:

(i) Various numerical models are also indicating development of an upper air cyclonic circulation over central BoB around 18th Oct. It is indicated to move gradually southwestwards across southwest BoB & south peninsular India and emerge into southeast Arabian Sea around 22nd Oct.

(ii) Most of the models are indicating likely emergence of an upper air cyclonic circulation over Andaman Sea around 21st October. It is indicated to intensify further into a low-

pressure area over southeast BoB around 24th October. Models are also indicating further intensification and north-northwestwards movement towards north BoB.

(iii) Models are also indicating a prominent easterly wave over the BoB with trough running along along 16N/95E and another around 16N/88E.

(b) Arabian Sea

(i) Most of the models are indicating an upper air cyclonic circulation over southwest AS around 17th October. However, some models (NCEP GFS, IMD FCN, NEPS, Mithuna) etc. are also indicating further intensification and movement towards Gulf of Aden.

(ii) The upper air cyclonic circulation over central BoB which is likely to emerge into eastcentral Arabian Sea around 22nd Oct. is indicated to intensify into a low-pressure area over southeast Arabian Sea around 24th Oct. Thereafter, it is indicated to intensify further and move nearly northwards with intensification.

Inference:

Considering the environmental features and guidance from various numerical models, it is inferred that:

- ❖ The existing upper air cyclonic circulation over Lakshadweep & neighborhood is likely to persist over the same region during next 1-2 days.
- ❖ There is likelihood of development of an upper air cyclonic circulation over southwest Arabian Sea around 17th October. It is indicated to move nearly west-northwestwards towards Gulf of Aden during subsequent 3-4 days.
- ❖ There is likelihood of development of an upper air cyclonic circulation over central BoB around 18th Oct. It is indicated to move gradually southwestwards and emerge into southeast Arabian Sea around 22nd Oct.
- ❖ There is also likelihood of emergence of an upper air cyclonic circulation over Andaman Sea around 21st October.

A continuous watch is being maintained wrt further development and movement of above mentioned upper air cyclonic circulations.

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:

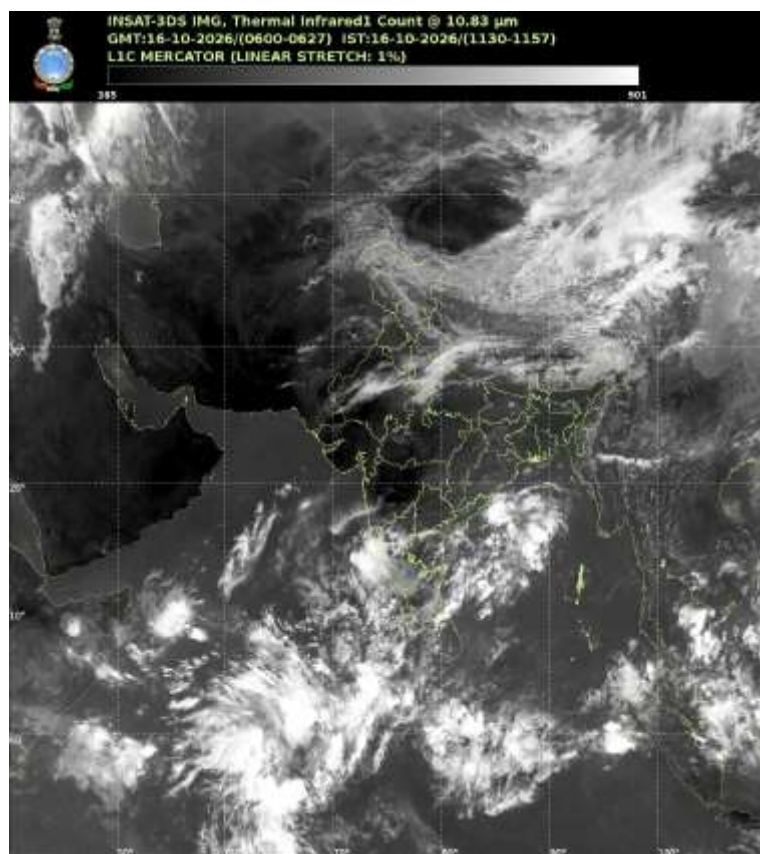
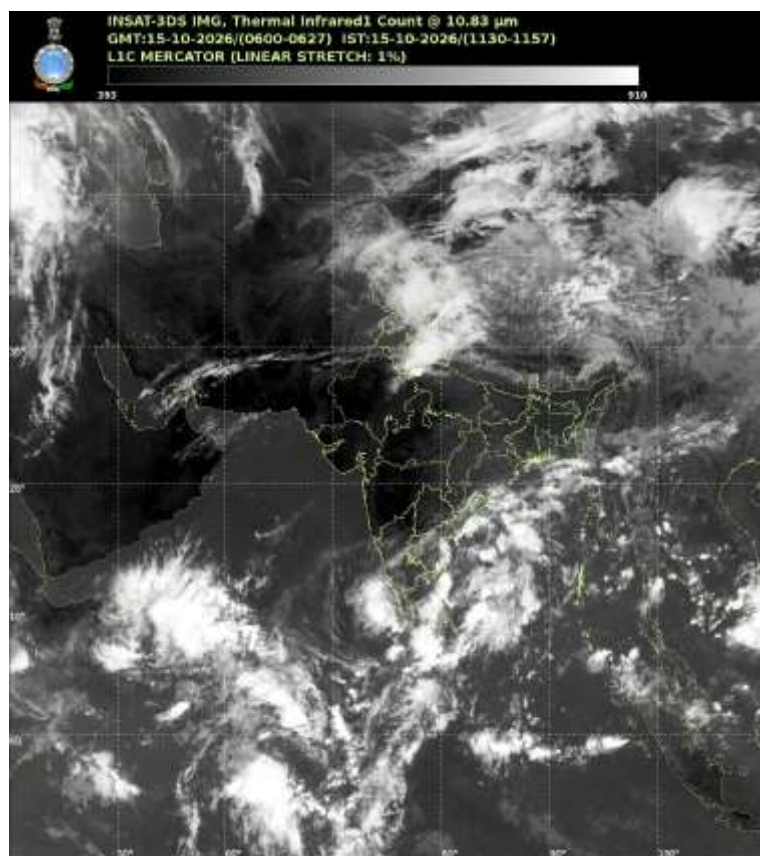
24 HOURS	24-48 HOURS	48-72 HOURS	72-96 HOURS	96-120 HOURS	120-144 HOURS	144-168 HOURS
NIL	NIL	NIL	NIL	NIL	NIL	NIL

“- “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.

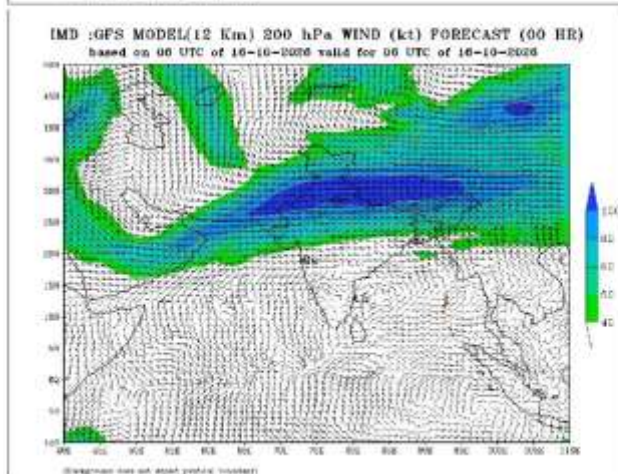
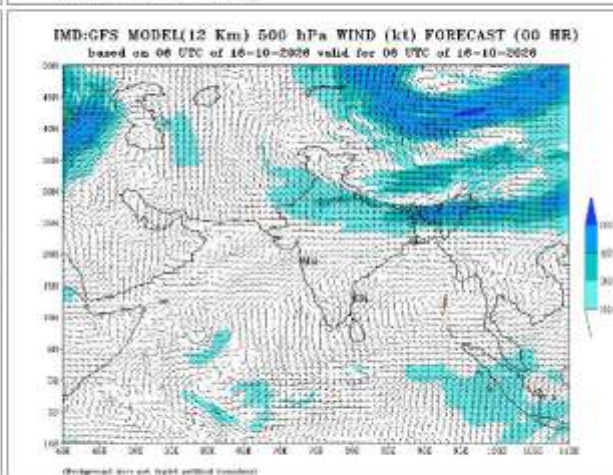
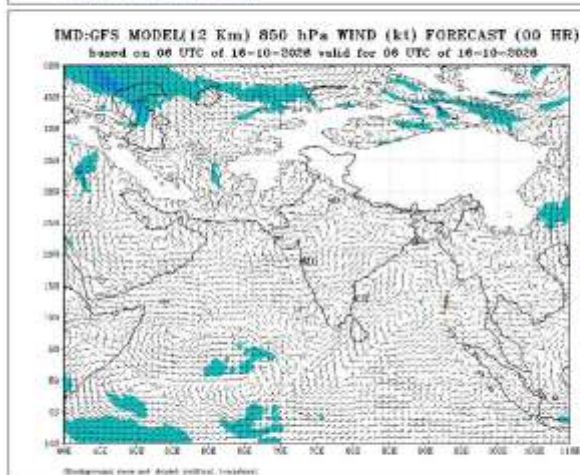
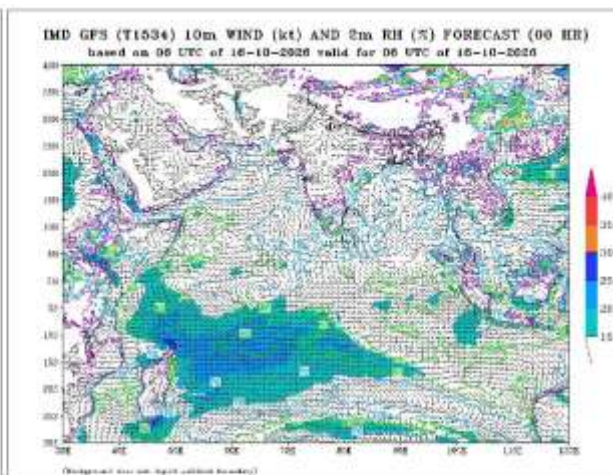
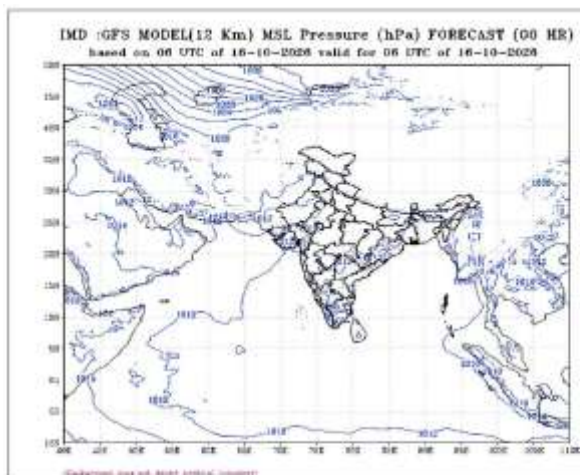
Intense Observation Period (IOP): NIL.

INSAT 3DR imagery at 0600 UTC of 15th & 16th October

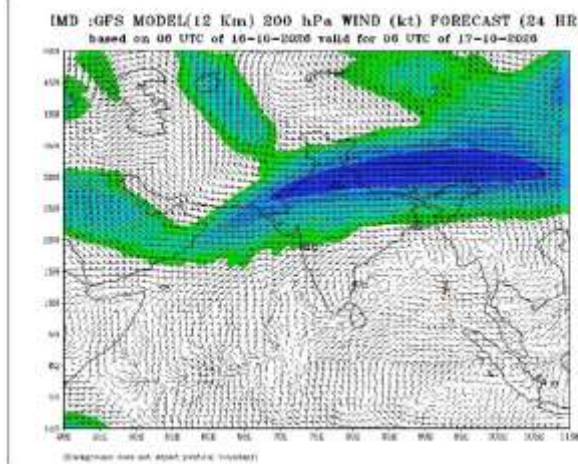
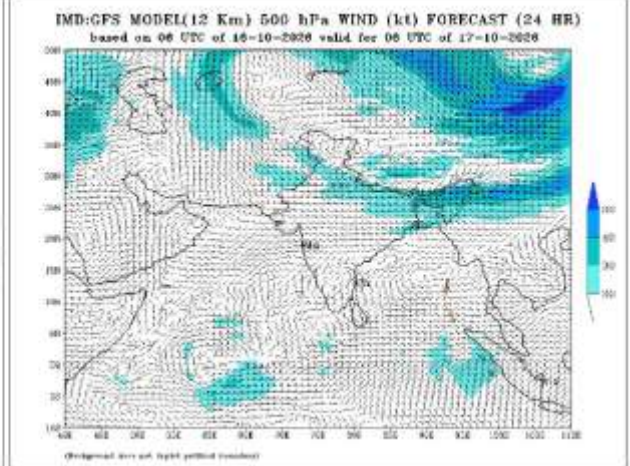
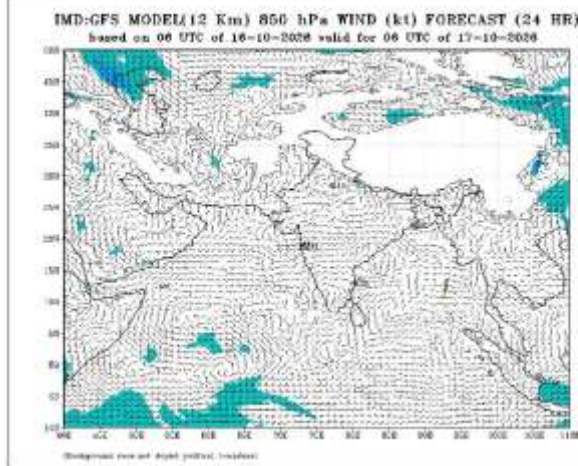
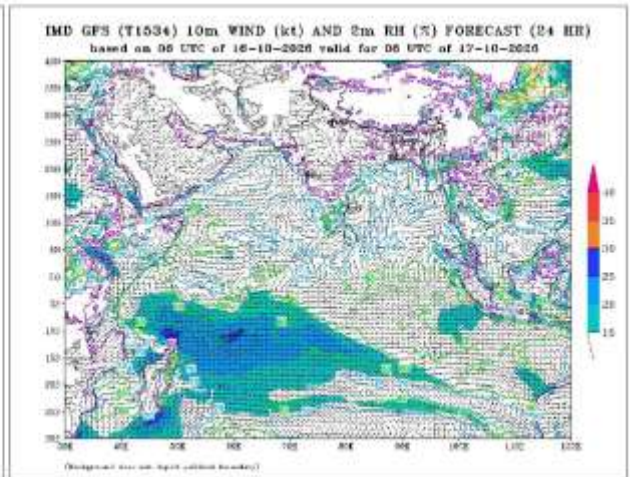
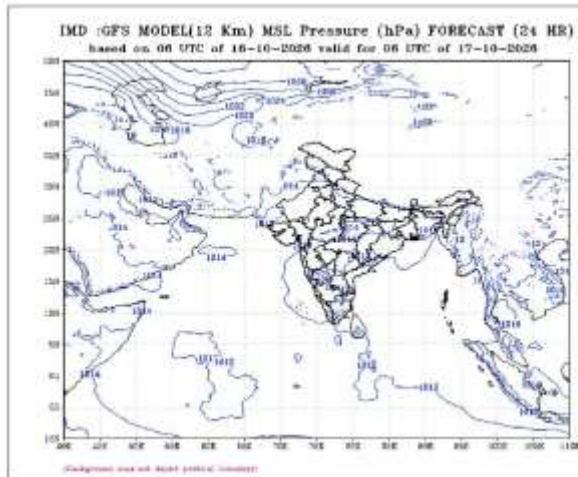


Annexure

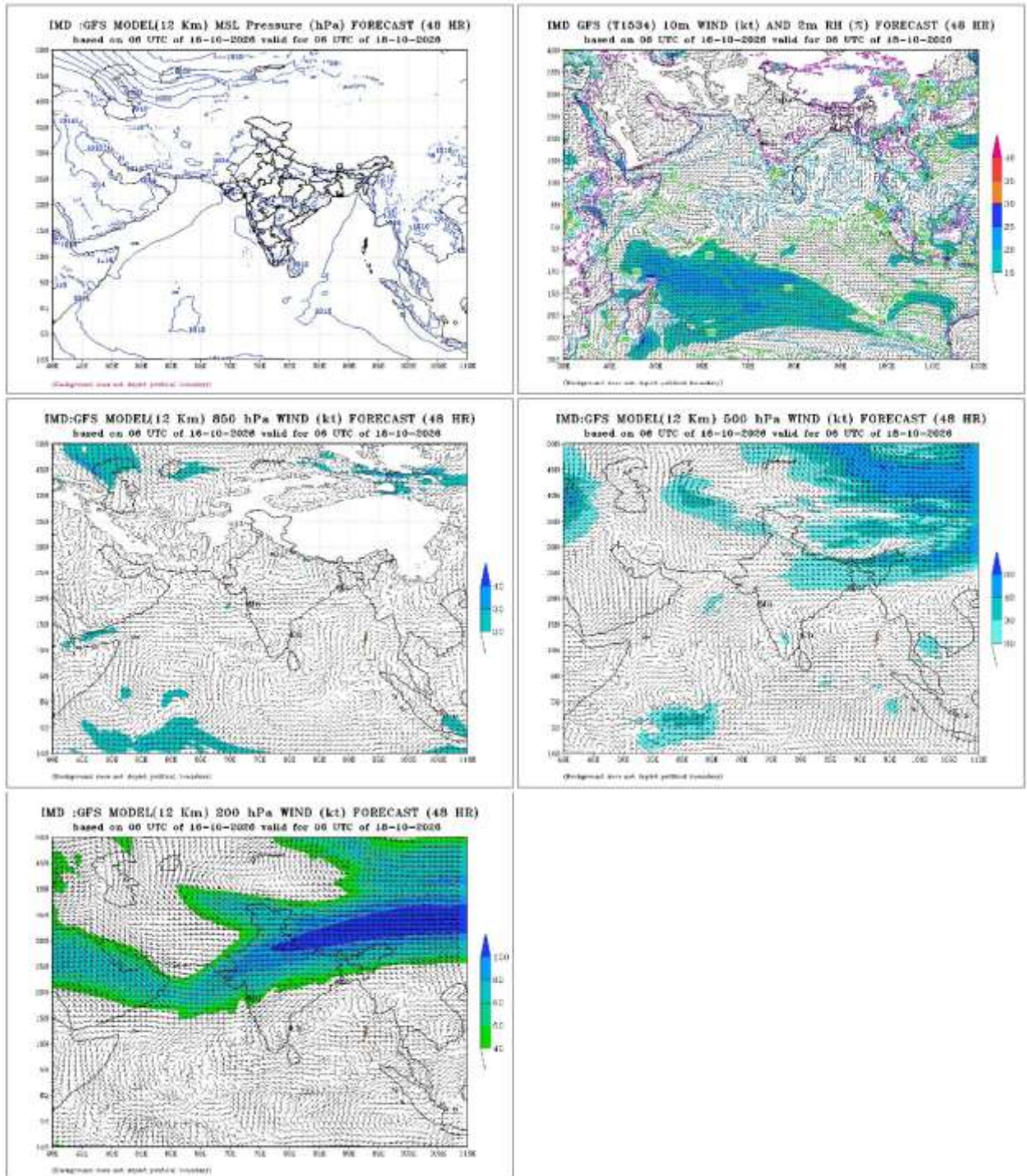
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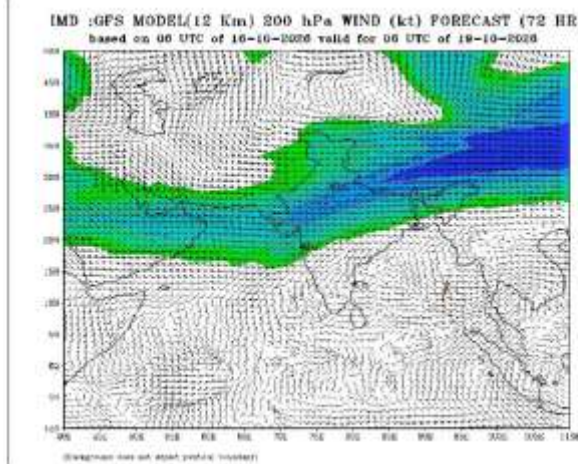
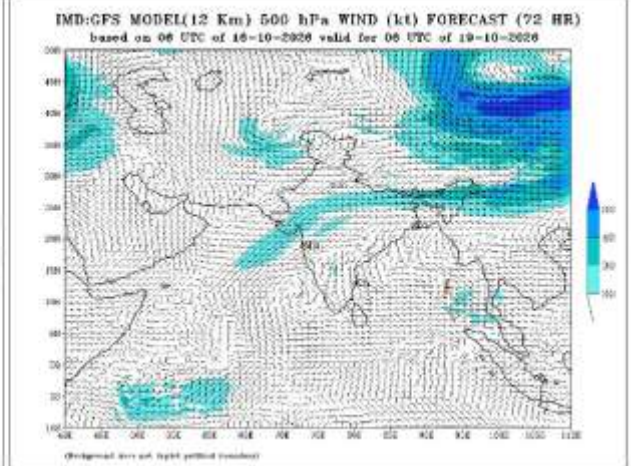
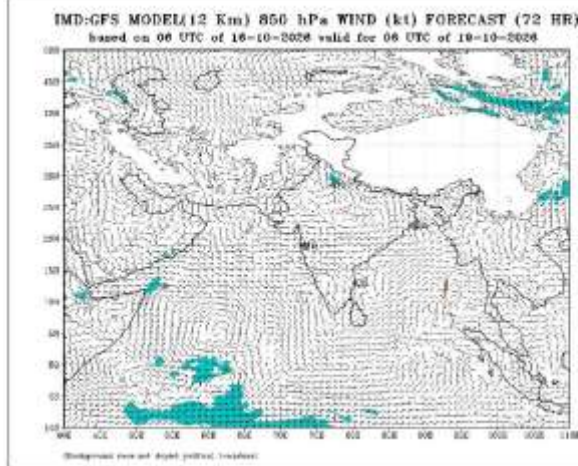
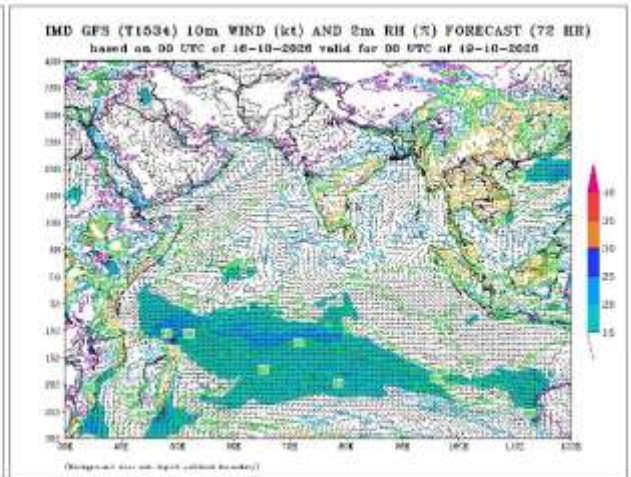
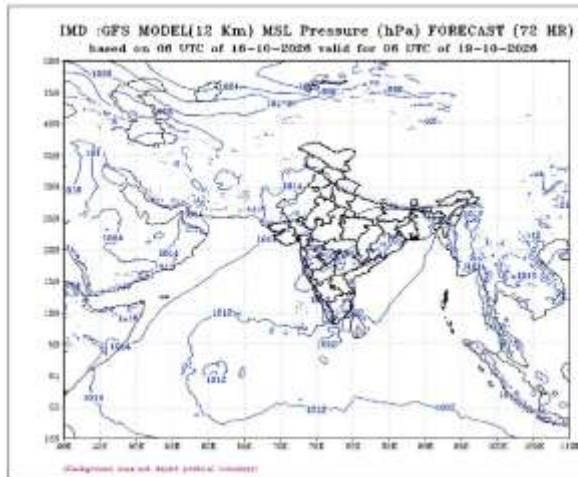
Forecast +24h



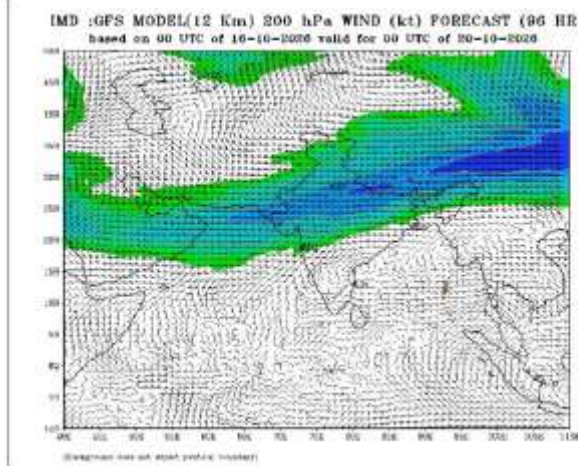
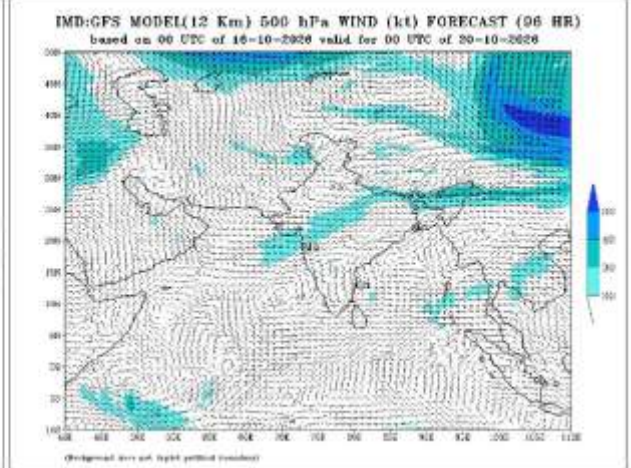
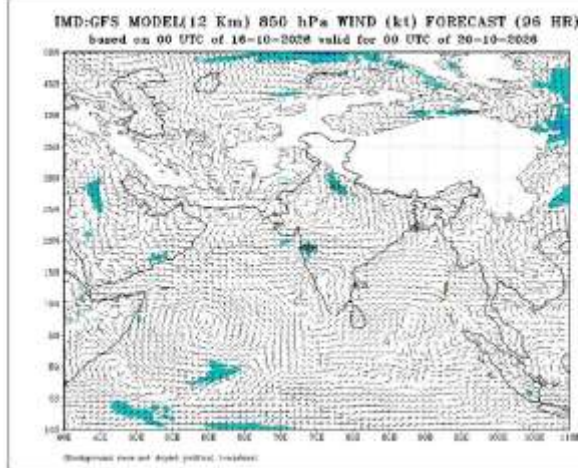
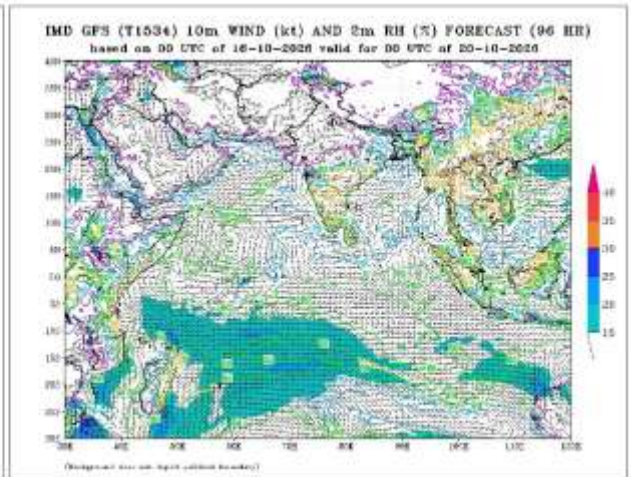
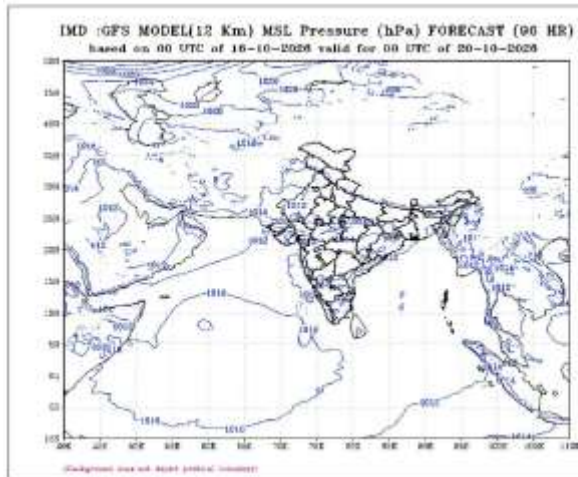
Forecast +48h



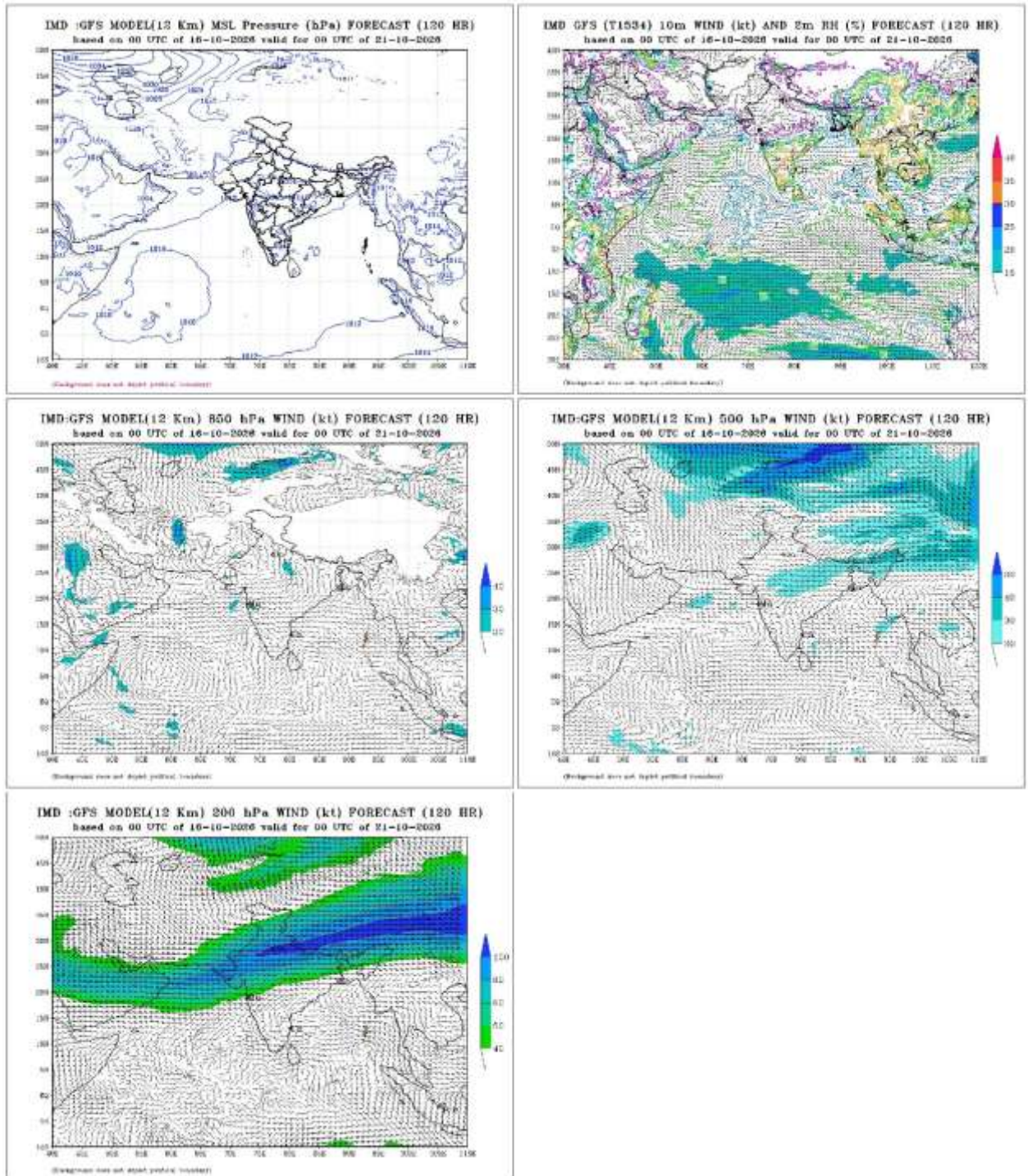
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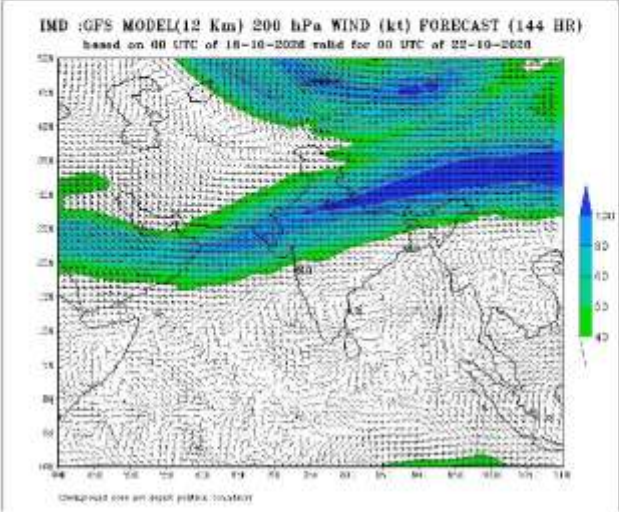
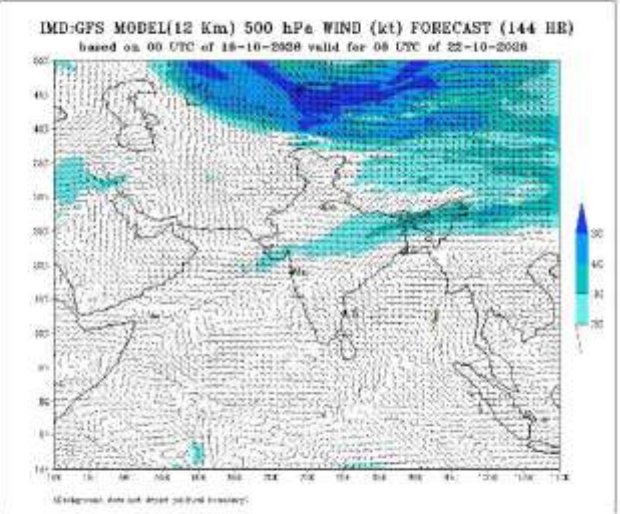
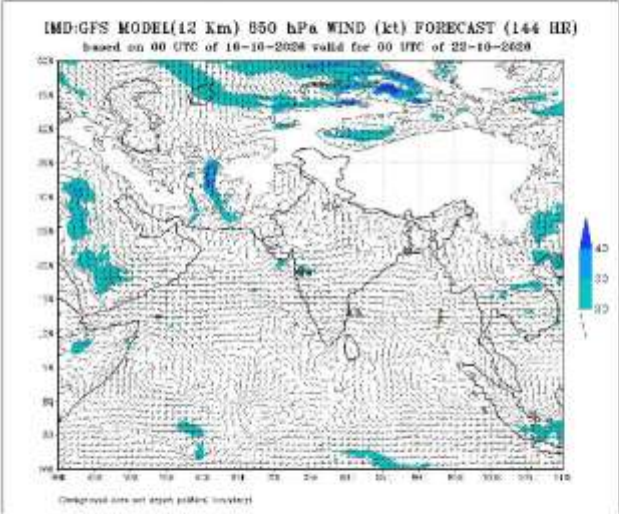
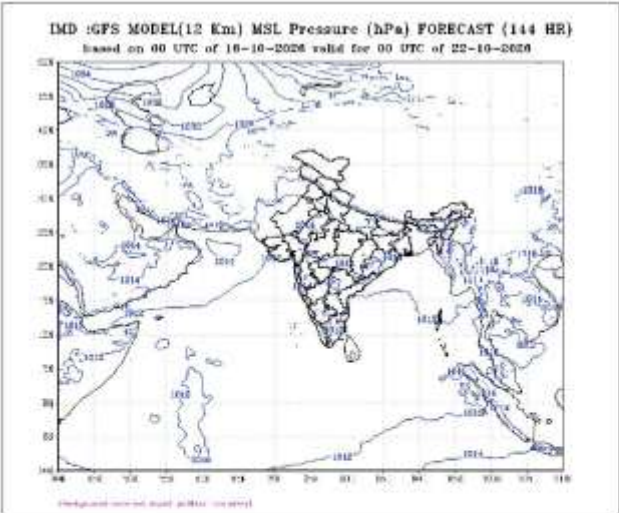
Forecast +96h



Forecast +120h



Forecast +144h



Forecast +168h

