



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

**Tropical Cyclone Forecast Programme
Report Dated 17th October 2026**

Time of Issue: 0900 UTC

Synoptic features (based on 0900 UTC analysis):

Yesterday's upper air cyclonic circulation over northern parts of Lakshadweep & neighbourhood extending upto 5.8 km above mean sea level persisted over the same region at 0300 UTC of today, the 17th October, 2026.

An upper air cyclonic circulation lay over Southwest Arabian Sea extended up to middle tropospheric levels at 0900 UTC of today, the 17th October 2026. Under its influence, a Low Pressure Area is likely to form over the same region around 19th October.

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	50-60 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 eastcentral AS along & off Maharashtra Coast.
Cyclonic Relative vorticity ($\times 10^{-6} \text{s}^{-1}$) at 500 hPa	20 over eastcentral BoB.	60-70 over southeast AS & adjoining Equatorial Indian Ocean (EIO)
Low-Level convergence ($\times 10^{-6} \text{s}^{-1}$)	5 over parts westcentral BoB off South Odisha-North AP Coasts. 5 over southwest BoB 5 over southwest and adjoining westcentral BoB	5-10 over southwest AS. 10-15 over southeast AS
Upper-Level divergence ($\times 10^{-6} \text{s}^{-1}$)	5-10 over westcentral BoB along & off AP Coast.	10 over southeast AS along & off Kerala Coasts 5-10 over northeast AS along & off Gujarat 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 westcentral BoB.	Low to moderate over south & adjoining central AS. High wind shear over north and adjoining central AS.

Wind Shear Tendency (knots)	Increasing over Andaman Sea and adjoining southeast BoB Increasing over Southwest BoB adjoining Sri Lanka and Comorin area Decreasing over north and central BoB	Increasing over northeast AS along & off Gujarat coast Increasing over eastcentral AS along & off Karnataka coast Increasing over westcentral and adjoining southwest AS along & off Somalia Coast. Decreasing over south AS.
Upper Tropospheric Ridge	Ridge is running along 17°N	A ridge is running along 12°N
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 - 26th 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 17th-18th 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 - 25th Oct., there will be ERW, MJO & KW will persist which may support fresh development of cyclonic circulation/ low pressure area over the region.

Currently, low level easterly wave is active over the North Indian Ocean region with troughs running along (a) 95°E from East Equatorial Indian Ocean to North Andaman Sea, (b) from upper air cyclonic circulation over Lakshadweep to westcentral BoB and (c) southwest AS to westcentral AS. There is also ERW over southwest AS. Under the influence of ERW, the cyclonic circulation over southwest AS is likely to persist till 27th Oct., while upper air cyclonic circulation over Lakshadweep is likely to become less marked during next 2 days.

Satellite features:

Over the Bay of Bengal & Andaman Sea:

As per INSAT 3DS at 0900 UTC, scattered to broken, low and medium clouds with embedded moderate to intense convection lay over the central and southwest Bay of Bengal and Andaman Sea. Scattered low to medium clouds with embedded isolated weak to moderate convection lay over the north and southeast Bay of Bengal.

Over the Arabian Sea:

As per INSAT 3DS at 0900 UTC, scattered to broken, low and medium clouds with embedded isolated to very isolated convection lay over the east-central and southeast Arabian Sea off Karnataka–Kerala coasts and Lakshadweep area. Scattered low to medium clouds with embedded moderate to intense convection lay over the rest of the south Arabian Sea, Maldives and Comorin area. Isolated weak to moderate convection lay over the northeast Arabian Sea off south Gujarat coast and the rest of the central Arabian Sea.

Scattered to broken, low and medium clouds with embedded intense to very intense convection lay over southwest Arabian Sea to the east of Somalia coast.

Outside India:

As per INSAT 3DS at 0900 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	Trough over westcentral and adjoining southwest BoB off south AP-north TN Coasts on 17/00. An easterly wave with embedded circulations is seen over south BoB during 22/00 to 24/00. Upper air cyclonic circulation to emerge into south Andaman Sea on 19/00 with westwards movement during next 2 to 3 days.	Upper air cyclonic circulation over southwest AS on 17/00, to persist over same region till 25/00 with gradual westwards movement
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	Cycir over Gulf of Thailand to emerge into south Andaman Sea on 20/00, Under its influence a low-pressure area is indicated over Andaman Islands on 24/00. It is indicated to intensify further and move towards westcentral BoB till 27/00.	Cycir over southwest AS on 17/00, to persist over same region with marginal intensification till 23/00, to move west northwestwards towards Gulf of Aden. Cycir to emerge over southeast AS on 22/00, move initially west northwestwards and intensify into a low-pressure area over southeast east AS on 23/00, depression on 24/00 over southeast AS and adj eastcentral AS. Further intensification with north northwestwards recurvature movement

		towards south Gujarat coast is indicated till 27/00
NEPS	Cycir to emerge into south Andaman Sea on 20/00, LPA over Andaman Islands on 21/00. To move initially west northwestwards and then westwards towards Odisha coast as a LPA.	Cycir over southwest AS on 17/00 to move nearly westwards towards Somalia coast till 22/00 with marginal intensification. Cycir to emerge into southeast AS on 21/00, LPA over eastcentral and adj southeast AS on 22/00. To move north northwestwards and then north northeastwards over eastcentral AS till 26/00 with intensification
ECMWF	LPA over southeast BoB on 23/00, Depression over southeast BoB on 26/18, to move northwestwards towards westcentral BoB towards south Odish – AP Coasts.	Cycir over southwest AS on 17/00, to persist over same region with marginal intensification till 23/00, to move west northwestwards towards Somalia Coast. Cycir over southeast AS on 23/12, LPA over same region on 24/12, Depression over southeast AS on 25/12. It is indicated to intensify further and move west northwestwards and then nearly northwards over central AS till 30/12
NCEP-GFS	No significant system is indicated over BoB during next 7 days.	LPA over southwest AS on 18/00. To move west northwestwards with marginal intensification towards Somalis coast till 22/00.
EC-AIFS	No significant system is indicated over BoB during next 7 days.	No significant system is indicated over AS during next 7 days.
IMD AURORA	A trough extending from westcentral to southwest BoB on 17/00. It is seen as an upper air cyclonic circulations over southwest and adj westcentral BoB on 20/00 with north northeastwards movement along the coast and intensification into a low-pressure area over westcentral BoB off south AP coast on 24/00, depression over westcentral and adj northwest BoB on 25/00 and crossing over Odisha coast on 26/00 as depression. Model is also indicating emergence of upper air cyclonic circulation over south Andaman Sea on 19/00 becoming less marked on 20/00.	It is indicating easterly wave with embedded cyclonic circulations over southeast and southwest AS. The cyclic circulation is indicated to move westwards towards Somalia coast till 23/00 without any significant intensification.
IMD FGN	Extended cycir over Andaman Sea on 20/00 with west northwestwards movement towards westcentral BoB. It is indicated as LPA over westcentral BoB on 24/00 and depression over	Cycir over southwest AS on 17/00 to move westwards and intensify to LPA on 19/00 over same region, depression on 20/00. To move westwards towards

	westcentral BoB on 26/00. It is indicated to move towards south Odisha and north AP Coasts	Somalia coast on 22/00 as a depression.
IMD FCN	Trough extending from southwest BoB to westcentral BoB off AP Coast during 17/00-20/00, cyclonic circulation over southwest BoB off TN Coast on 20/00. It is indicated to move west southwestwards and emerge into southeast AS on 23/00. Hereafter, it is indicated to move north northwestwards towards central AS till 27/00 with intensification. Cycir over south Adaman Sea on 19/00 to move initially northwestwards towards westcentral BoB till 22/00. LPA over westcentral and adj southwest BoB on 23/00, depression over westcentral BoB off AP coast on 24/00 with north northeastward movement along the coast and crossing over Odisha coast on 26/00.	Cycir over southwest AS on 17/00 to move westwards and intensify to LPA on 19/00 over same region, depression on 20/00. To move westwards towards Somalia coast on 22/00 as a depression.
NCMRWF FOURCAST NET	No significant system is indicated over BoB during next 7 days.	No significant system is indicated over AS during next 7 days.
NCMRWF GRAPHCAST	Cycir to emerge in south Andaman Sea on 20/00 and intensify to low pressure area on 23/00, depression over eastcentral BoB on 25/00. It is indicated to intensify further to cyclonic storm over eastcentral BoB on 26/00, to move nearly north-northwestwards towards Odisha-AP coasts	Cycir over southwest AS on 17/00 to persist over same region, intensify into low pressure area on 18/00, depression on 22/00 and move slowly west northwestwards towards Gulf of Aden till 25/00
NCMRWF PANGU	Cycir to emerge in south Andaman Sea on 19/00 and intensify to low pressure area on 22/00, depression over eastcentral BoB on 23/00. It is indicated to intensify further to cyclonic storm over eastcentral BoB on 25/00, to move nearly north-northwestwards and cross Odisha coast as cyclonic storm on 27/00.	Cycir over southwest AS on 17/00 to persist over same region, intensify into low pressure area on 18/00 and move slowly west northwestwards towards Gulf of Aden till 25/00

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:

Various numerical models (ECMWF, Mithuna, IMD GFS, AI models like Aurora, FGN, FCN) are indicating likely emergence/ formation of an upper air cyclonic circulation over Andaman Sea around 21st October, in association with Easterly wave. It is indicated to intensify further into a low- pressure area around 24th October. However, there is divergence among various models wrt area of formation of low pressure area. Some models (Aurora, FGN, FCN) are showing low pressure area over westcentral BoB and some are showing development of low pressure area over southeast BoB & adjoining Andaman Islands (Mithuna, ECMWF). Many models are indicating further development into a depression around 25th Oct (ECMWF over southeast BoB and other models like Aurora, FGN, FCN over westcentral BoB). However, there is a consensus among various models wrt movement towards South Odisha-North Andhra Pradesh coasts.

(b) Arabian Sea

(i) Models (like ECMWF, NEPS, Mithuna, are also indicating an upper air cyclonic circulation over westcentral BoB on 20th Oct. It is indicated to move nearly south-southwestwards and reach Gulf of Mannar around 21st Oct. Thereafter, it is indicated to move west-northwestwards and emerge over southeast AS (around 22nd Oct.). It is further indicated to intensify into a low pressure area over southeast & adjoining eastcentral AS around 23rd Oct. (ECMWF, Mithuna, NEPS, FCN). There is divergence among various models wrt it's movement & intensification.

(iii) Most of the models are also indicating an upper air cyclonic circulation over southwest AS on 17th Oct. to persist/ intensify marginally and move nearly west-northwestwards towards Gulf of Aden & adjoining north Somalia coast till 26th Oct.

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 and become less marked thereafter.
- ❖ Under the influence of the existing upper air cyclonic circulation over southwest Arabian Sea, a low pressure is likely to form over the same region around 19th Oct. The genesis of low pressure area is likely under the combined influence of background easterly waves and Equatorial Rossby wave. It is likely to move nearly west-northwestwards towards Gulf of Aden during subsequent 3-4 days.
- ❖ The upper air cyclonic circulation over North TamilNadu & adjoining south coastal Andhra Pradesh is likely move gradually south-southwestwards, reach Gulf of Mannar around 21st Oct. Thereafter, it is likely to move west-northwestwards and lay over southeast Arabian Sea around 22nd Oct.
- ❖ There is also likelihood of emergence/ formation of an upper air cyclonic circulation over Andaman Sea around 21st October, in association with Easterly wave. Under its influence, a low- pressure area is likely to form over southeast Bay of Bengal around 24th 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:

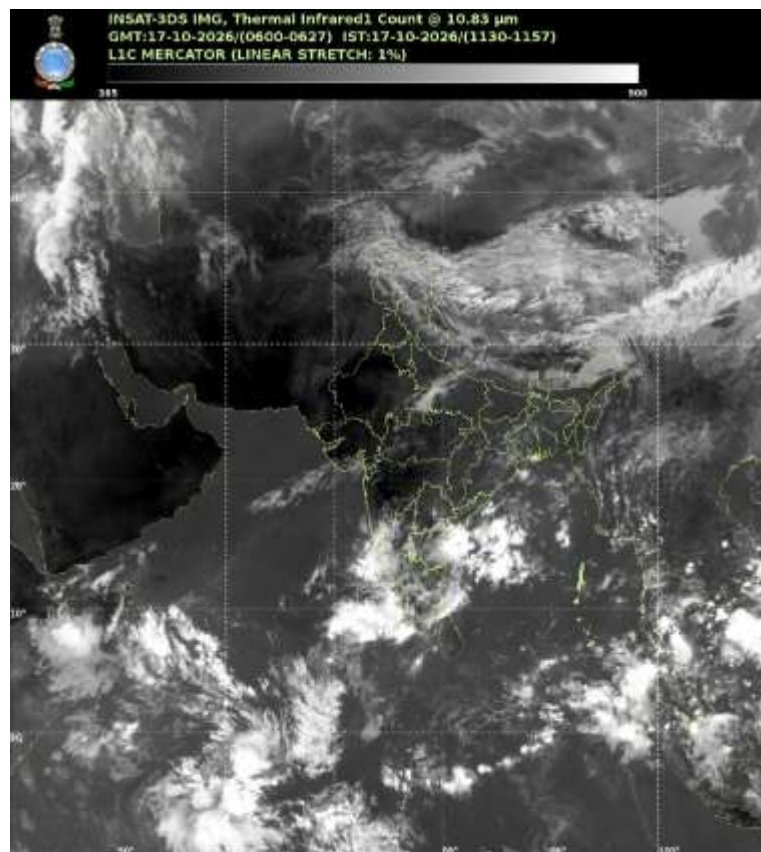
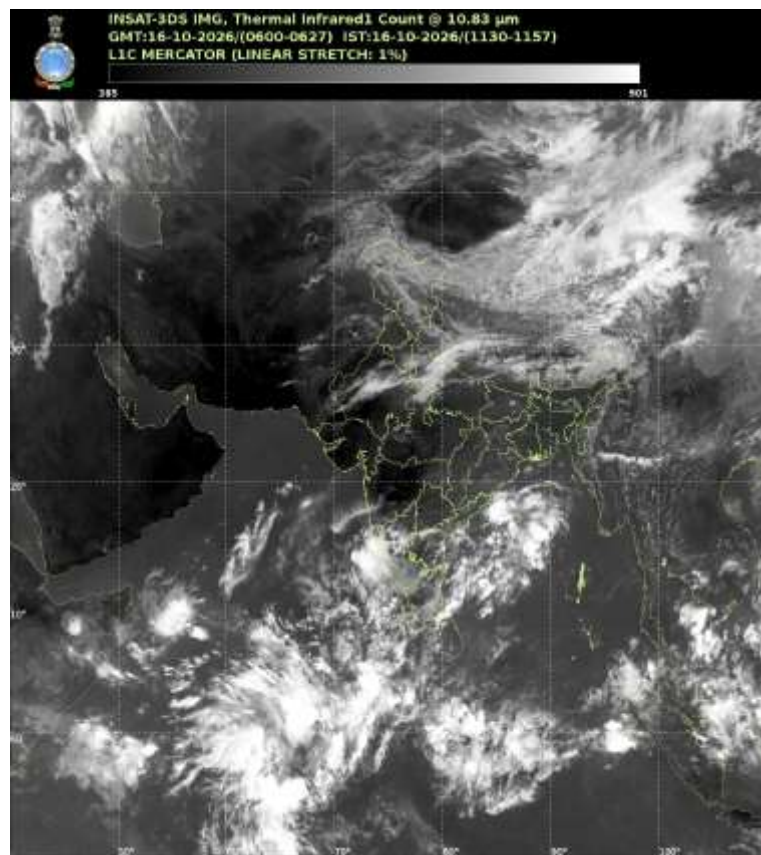
24 HOURS	24-48 HOURS	48-72 HOURS	72-96 HOURS	96-120 HOURS	120-144 HOURS	144-168 HOURS
NIL	NIL	NIL	NIL	NIL	NIL	NIL

“- “indicates genesis has already occurred.

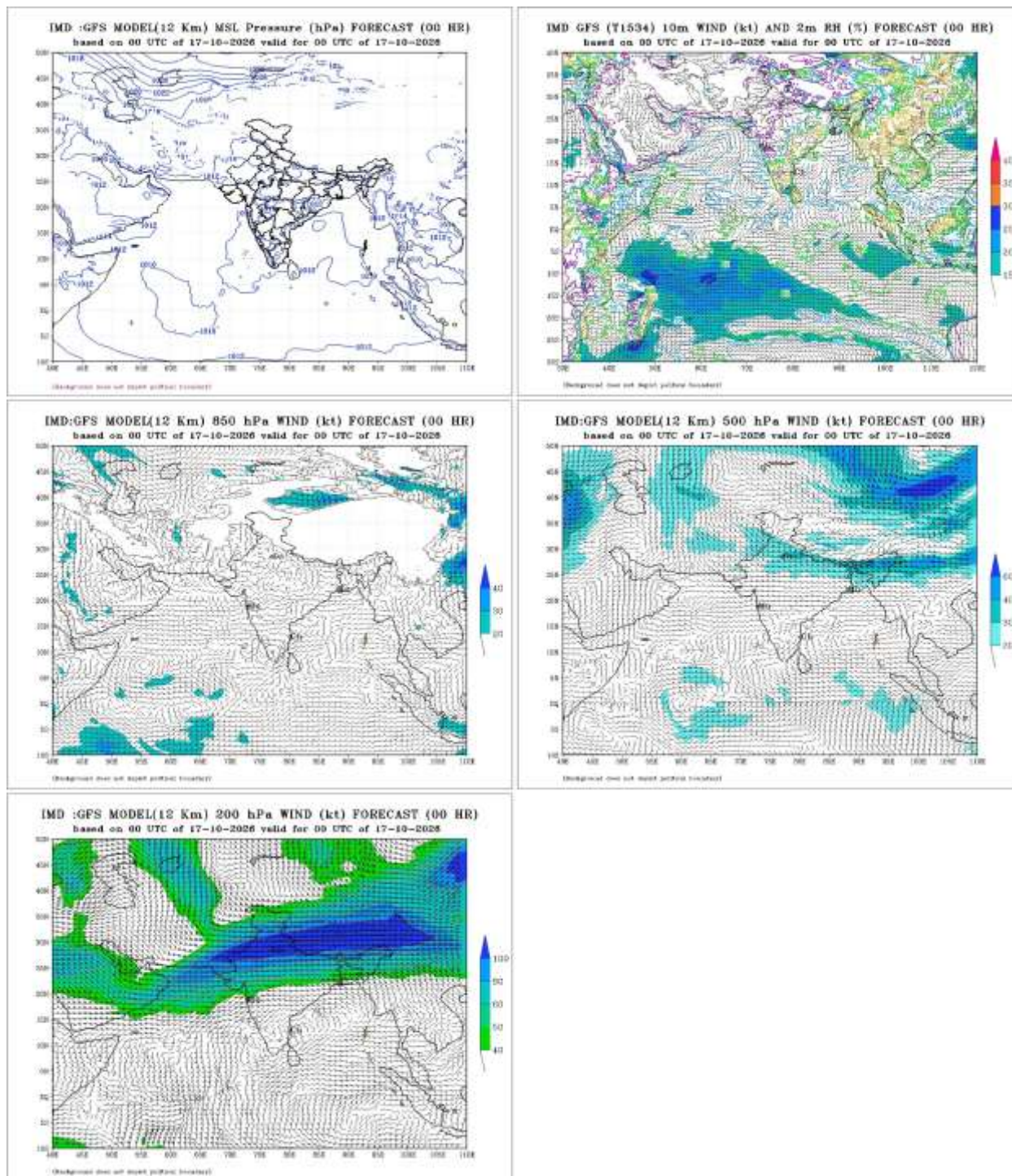
Probability is indicated as NIL for 0%, LOW for 1-33%, MOD for 34-67% and High for 68-100%. Every 24 hrs forecast ends at the 0300 UTC of date.

Intense Observation Period (IOP): NIL.

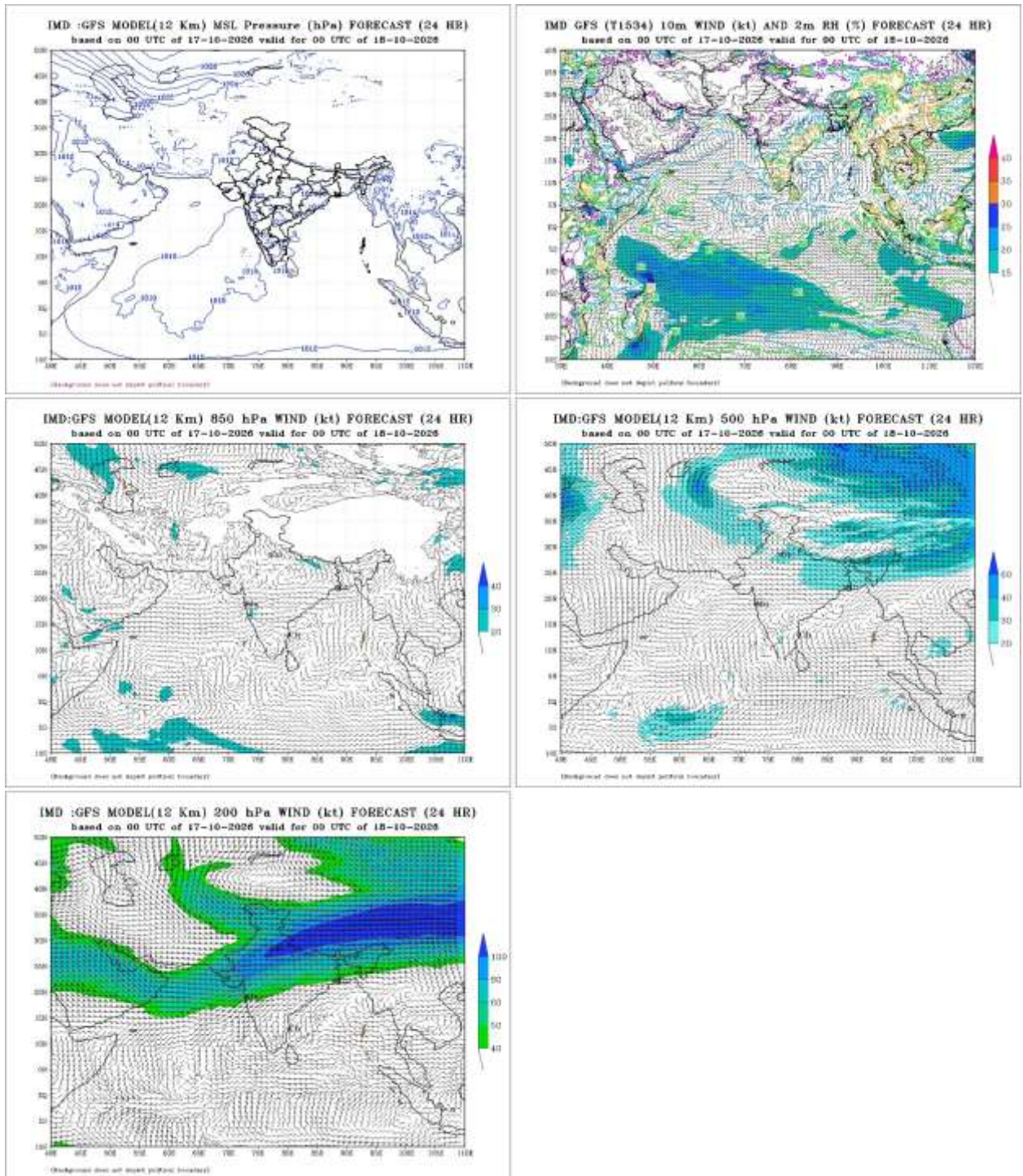
INSAT 3DR imagery at 0600 UTC of 16th & 17th October



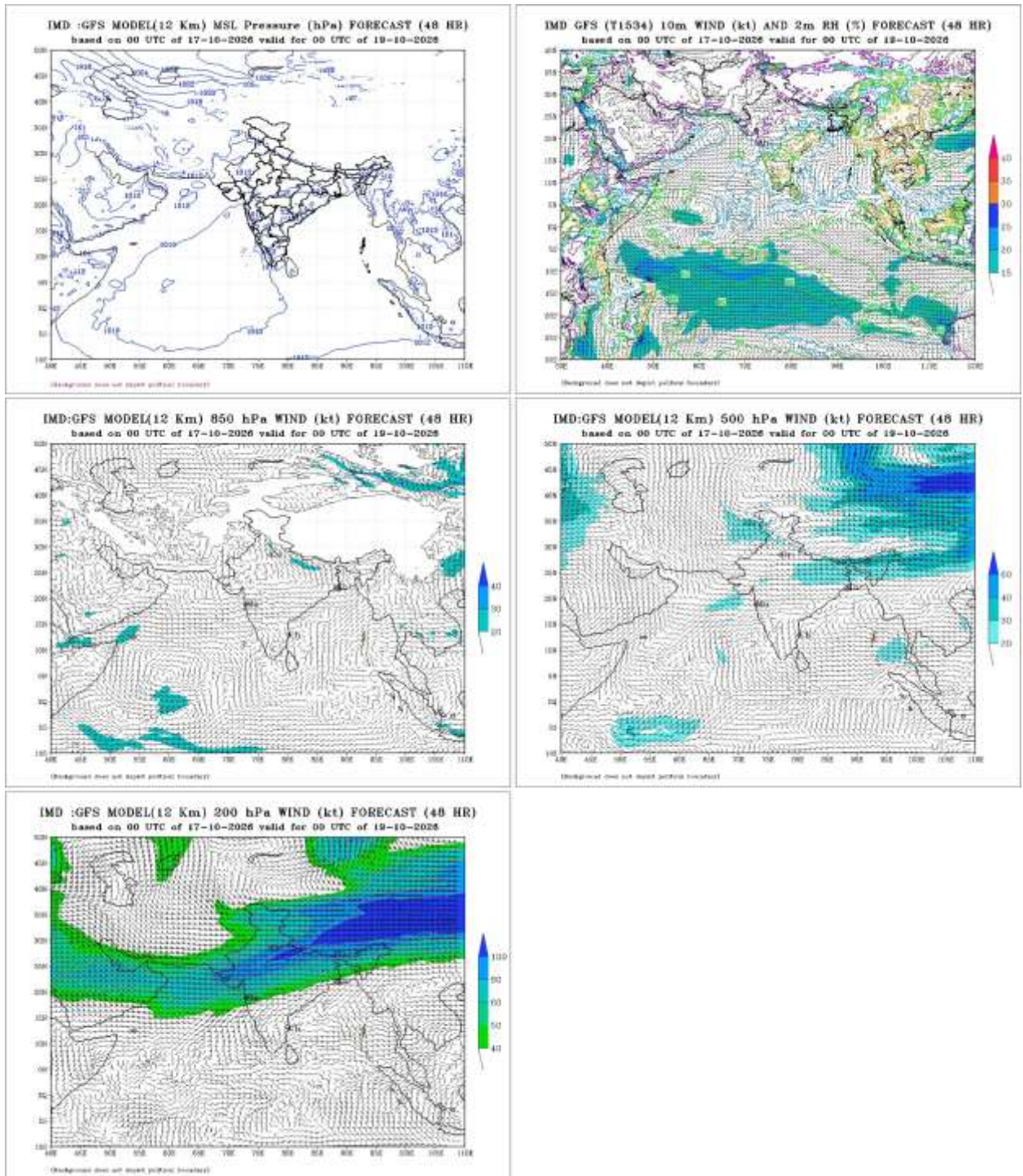
Forecast +0h



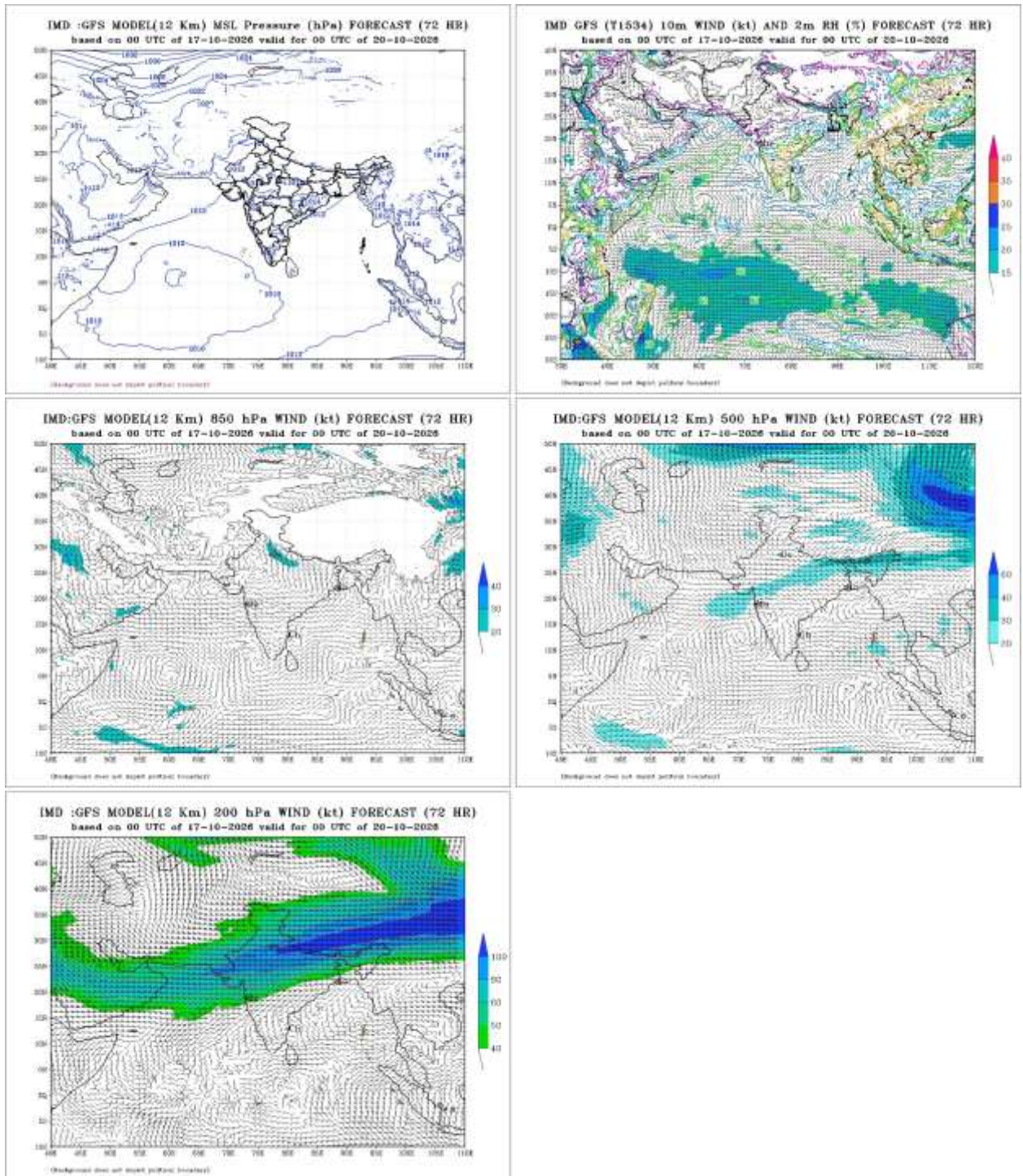
Forecast +24h



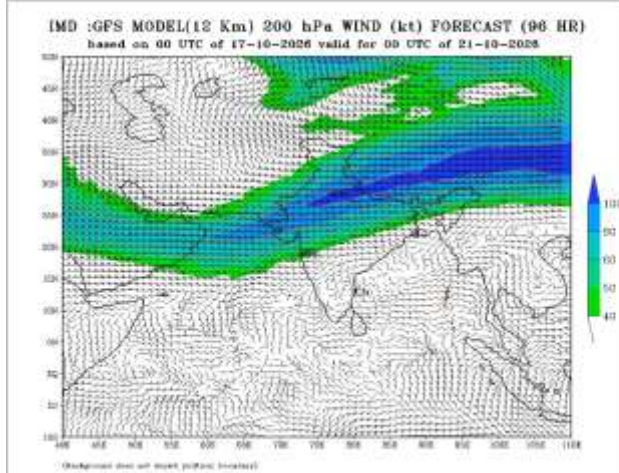
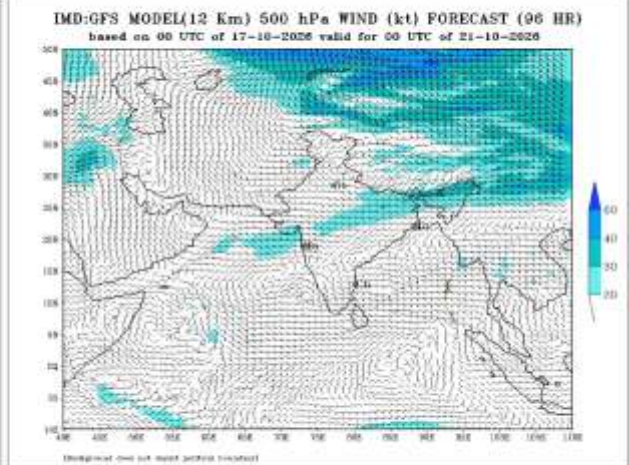
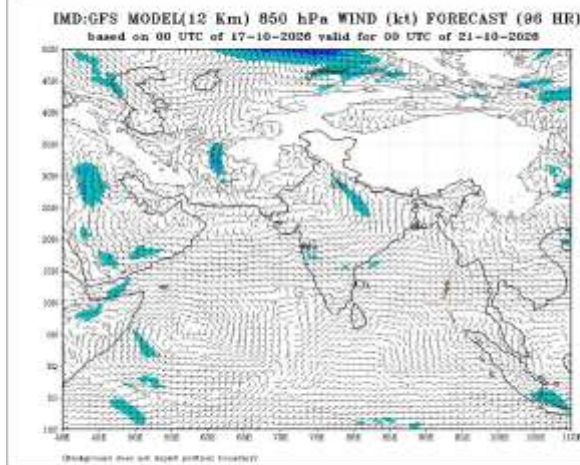
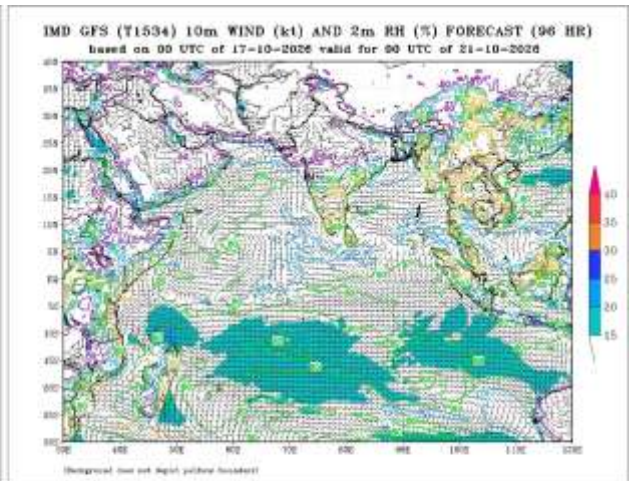
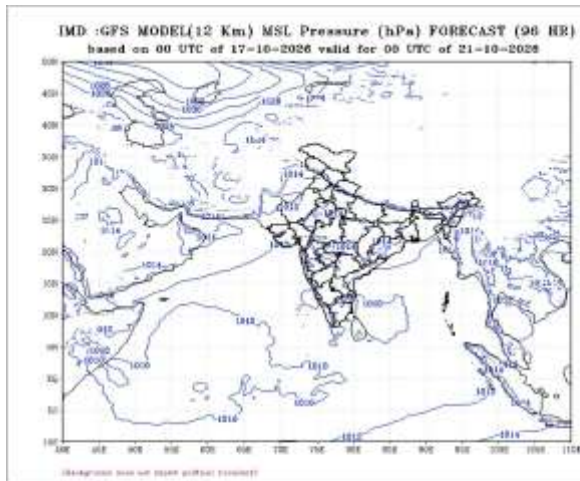
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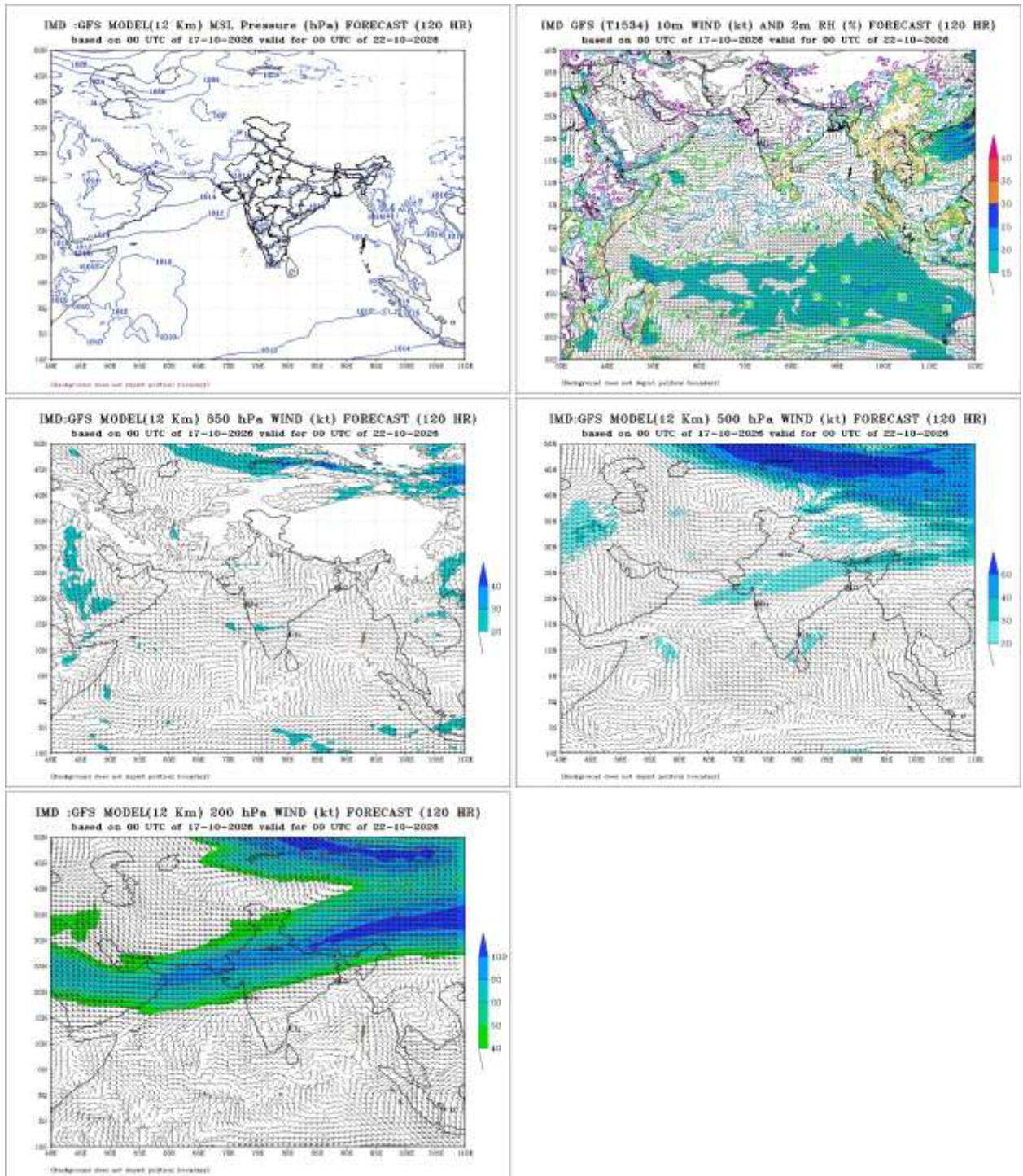
Forecast +72h



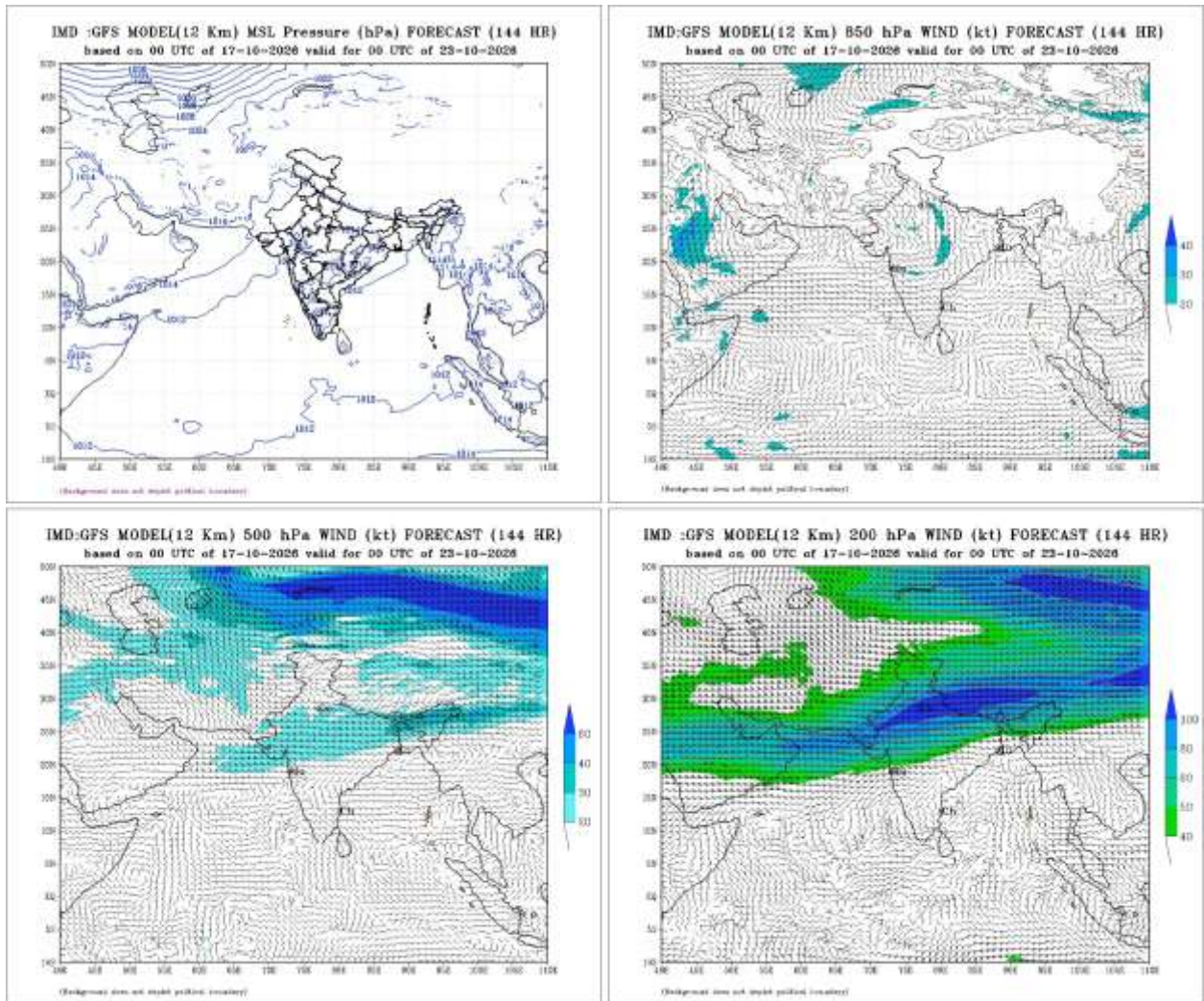
Forecast +96h



Forecast +120h



Forecast +144h



Forecast +168h

