



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

**Tropical Cyclone Forecast Programme
Report Dated 20th October 2026**

Time of Issue: 1000 UTC

Synoptic features (based on 0300 UTC analysis):

- ❖ Yesterday's well marked low pressure area over southwest Arabian moved west-northwestwards and lay over the same region at 0300 UTC of today, the 20th October, 2026. The associated cyclonic circulation extended upto 7.6 km above mean sea level. It is very likely to continue to move west-northwestwards maintaining its intensity of well marked low pressure area during next 12 hours. Thereafter, it is likely to continue to move further west-northwestwards as a low pressure area till 21st and then west-southwestwards towards Somalia coast on 22nd October.
- ❖ Yesterday's upper air cyclonic circulation over Southwest Bay of Bengal and adjoining Tamil Nadu coast extending upto 5.8 km above mean sea level persisted over the same region at 0300 UTC of today, the 20th October, 2026. Under its influence a low pressure area is likely to form over the same region during next 24 hours.
- ❖ Yesterday's upper air cyclonic circulation over Gulf of Thailand & neighbourhood lay over Gulf of Thailand and adjoining Thailand & Myanmar and extended upto 4.5 km above mean sea level at 0300 UTC of today, 20th October. It is likely to emerge into north Andaman Sea by tomorrow, 21st October morning. Thereafter it will move west-north-westwards and under its influence a low-pressure area is likely to form over Southeast and adjoining East-central Bay of Bengal around 23rd October, 2026. Then it is likely to move northwestwards and intensify further.

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	80-100 over most parts of BoB with 100-120 over southwest & adjoining westcentral BoB, North Andaman Sea, parts of southeast BoB, eastcentral and adjoining northeast BoB.	80-100 over most parts of southeast, eastcentral and adjoining northeast AS with 120-130 over some pockets of southeast & eastcentral AS and Comorin area. 60-70 over western parts of AS.
Cyclonic Relative - vorticity (X10⁻⁶s⁻¹) at 850 hPa	50-60 over southwest BoB along & off north Tamil Nadu coast. 50-60 over south Andaman Sea and adjoining Thailand. 40-50 over southeast BoB and adjoining Equatorial Indian Ocean (EIO).	80-100 over southwest AS & adjoining Equatorial Indian Ocean (EIO). 25 over southwest AS off Somalia coast.

Cyclonic Relative - vorticity ($\times 10^{-6} \text{s}^{-1}$) at 500 hPa	40-50 over westcentral BoB along & off north Andhra Pradesh coast. Southwest-northeast oriented zone of (40-50) from East EIO to south Andaman Sea.	50-60 over southwest AS near system area 50-60 over southwest AS off Somalia coast 40-50 over westcentral AS off Socotra Islands & Yemen coast.
Low-Level convergence ($\times 10^{-6} \text{s}^{-1}$)	5-10 over South Andaman Sea & adjoining southeast BoB 5 over westcentral BoB off North AP coast	10 over southwest AS near system centre
Upper-Level divergence ($\times 10^{-6} \text{s}^{-1}$)	Southwest-Northeast oriented positive Divergence (10-20) from EEIO to Gulf of Thailand across Indonesia, South Andaman Sea & adjoining Thailand. East-west oriented 10-20 over EEIO and adjoining South BoB	20 over system area 05-10 to the northwest of system area over southwest & adjoining westcentral AS.
Vertical Wind Shear (VWS) Low: 05-10 knots Moderate: 10-20 knots High: >20 knots	Low over Gulf of Thailand, south Myanmar, Andaman Sea, south and adjoining central BoB	Moderate over system area and towards Somalia coast. Low to moderate over south AS
Wind Shear Tendency (knots)	Decreasing (-5-10) over Andaman Sea and entire South BoB.	Decreasing (-5 to -10) over system area and decreasing (-5 to -10) to its west off Somalia coast. -5 over southeast AS and another zone of -5 over eastcentral & adjoining northeast AS
Upper Tropospheric Ridge	Ridge is running along 14°N .	Ridge is running along 13°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 (2-3 mps) alongwith Equatorial Rossby Wave (ERW) over East Equatorial Indian Ocean (EEIO) and adjoining south BoB & easterly wind anomaly (5-7mps) alongwith Kelvin Wave (KW) over north BoB during next 2 days. Thereafter during 22nd – 27thOct., the model is indicating westerly wind anomaly (7-9mps) along with occurrence of ERW, & MJO wave over south BoB and easterly wind anomaly (5-7 mps) over north BoB. These features indicate a favorable environment for cyclogenesis over the south BoB during 22nd-27thOct.

Westerly wind anomaly (3-5 mps) alongwith MJO and over southwest AS & adjoining EIO and easterly wind anomaly to its north till 23rd Oct are supporting maintenance of intensity of well marked low pressure area/ associated cyclonic circulation over southwest AS.

However, over the southeast AS, during 22nd to 27th, the model is indicating only westerly wind anomaly (3-5 mps) alongwith MJO & ERW. Thus, over the southeast AS, equatorial waves may not support further cyclogenesis during 22nd – 27th Oct.

Satellite features:

Over the Bay of Bengal & Andaman Sea:

Scattered to broken low and medium clouds with embedded intense to very intense convection lay over Bay of Bengal and Andaman Sea. Scattered to broken, low and medium clouds with embedded intense to very intense convection lay over the Bay of Bengal and Andaman Sea.

Over the Arabian Sea:

LLCC associated convection: As per INSAT-3D(S), vortex lay over southwest Arabian Sea & neighbourhood centered within half a degree of 8.4N/ / 59.4E. Intensity of the system is T1.0. Associated scattered to broken low and medium clouds with embedded intense to very intense convection lay over westcentral and south Arabian Sea and Equatorial Indian Ocean (Minimum CTT minus 70-90°C).

Other area:

Scattered to broken low and medium clouds with embedded intense to very intense convection over south & west central Arabian Sea. Scattered low and medium clouds with embedded moderate to intense convection over east central Arabian Sea, Lakshadweep Island Area, Maldives & Comorin Area.

Outside India:

As per INSAT 3DS at 0300 UTC, scattered low and medium clouds with embedded moderate to intense convection lay over Sri Lanka, the Palk Strait, Gulf of Mannar, Maldives area, Tibet, China, the Yellow Sea, Myanmar, Thailand, Gulf of Thailand, Cambodia, Laos, Vietnam, Sumatra, the Strait of Malacca, Malaysia, Borneo, South China Sea, Philippines, Sulu Sea, Madagascar, Mozambique Channel and over the Indian Ocean between latitudes 5.0°N and 20.0°S and longitudes 40.0°E and 100.0°E.

NWP Guidance for FDP Cyclone:

MODEL GUIDANCE	Bay of Bengal (BoB)	Arabian Sea (AS)
IMD-GFS	Upper air cyclonic circulation likely to emerge over Andaman Sea on 26/00. Intensify into LPA over the same region on 26/00, intensify into DD over the same region on 27/00. It is indicated to move west-northwestwards and concentrate into a cyclonic storm (CS) over north Andaman Sea & adjoining southeast BoB on 28/00. To intensify further and move west-northwestwards towards north AP & Odisha coasts till 30 th October.	Upper air cyclonic circulation (cycir) over southwest AS & adjoining NW East Equatorial Indian Ocean (EIO) on 20/00. To marginally intensify into an LPA over the same region on 21/00 and weaken thereafter. The associated cycir to move south-southwestwards till 23/00 towards Somalia coasts.

		Model is also indicating another LPA over southeast AS & adjoining Lakshadweep area during 21/00 to 23/00. To move slowly south-southwestwards and gradually weaken. The associated cycir to move westwards till 30/00.
IMD-GEFS	Model is indicating east-west trough from the south Andaman Sea to southwest Bay of Bengal during 20/12 to 22/12UTC. Another LPA over south BoB on 27/12. To move west-northwestwards and intensify into a D over westcentral BoB on 29/12 and move towards north AP.	LPA over southwest Arabian Sea during 20/12 to 21/12. To move westwards and become less marked thereafter.
BFS	Similar to IMD GFS	Similar to IMD GFS
MITHUNA	Cycir over southeast BoB and adjoining Andaman Sea on 20/00. To merge into east-west trough from eastcentral to Lakshadweep Area during 21/00 to 23/00. An LPA to form from eastern end of the trough over westcentral BoB on 23/00. To weaken and move nearly northwards and become D over central BoB on 26/00. To intensify and move north-northwestwards and cross Odisha coast on 27/00 as DD and become less marked after landfall.	Cycir over southwest AS on 20/00, to persist over same region till 23/00 and move westwards towards Somalia coasts.
NEPS	Cycir over southeast BoB and adjoining Andaman Sea on 20/00. To merge into east-west trough from eastcentral to Lakshadweep Area during 21/00 to 23/00. Cycir to emerge over central BoB on 24/00 and under its influence and LPA to form over westcentral BoB on 25/00. To move west-northwestwards and intensify into D over westcentral BoB. To move west-northwestwards towards north AP & Odisha coasts and become less marked after landfall.	LPA over southwest AS on 20/00. To gradually weaken further and move nearly westwards towards Somalia coast till 23/00. Cycir to emerge into Lakshadweep Area around 23/00 with marginal intensification into LPA over Lakshadweep Area & adjoining eastcentral AS on 25/00 and weaken gradually. LPA reappears from the western end of the trough over the same region during 28/00 to 29/00 with gradual weakening thereafter.
ECMWF	Cycir over eastcentral BoB & adjoining Andaman Sea on 21/18, to intensify into an LPA over the same region on 22/18, WML over the same region on 24/03, intensify into a Depression over the same region on 25/00. To move west-northwestwards and gradually intensify	LPA over southwest AS on 20/00, to persist over same region with marginal intensification till 22/03 and weaken gradually thereafter. To move westwards towards Somalia coast. Associated cycir over

	into DD over eastcentralBoB on 25/06. Continuing to move west-northwestwards, intensify further into CS over eastcentralBoB on 26/06. To intensify further, move west-northwestwards towards north AP coasts.	southeast AS to persist till 22/12. Another upper air cyclonic circulation over Lakshadweep Area on 23/00 to persist over the same region. Intensify over the same region adjoining Kerala coasts as LPA on 24/00, into a D on 26/18. To move eastwards along the coasts to Gulf of Mannar on 27/12 as feeble D and weaken gradually thereafter.
NCEP-GFS	Cycir to emerge over Andaman Sea on 21/12, intensify into LPA over eastcentral adjoining north Andaman Sea on 22/00, into a WML over the same region on 23/00, D on 23/06, DD on 23/12 with further intensification over same region to CS on 24/06. To intensify further while moving west-northwestwards towards Odisha coasts.	WML over southwest AS on 20/00. To weaken into LPA on 21/06. To move westwards towards Somalia coasts as LPA till 22/00 and become less marked thereafter. The associated cycir to persist till 22/12 with westwards movement.
EC-AIFS	Cycir over central BoB on 22/12. To intensify into an LPA over same region on 24/06 and further intensify into WML over the same region on 26/06 and into a D on 26/18. DD on 27/00 as DD over the same region. To move slowly west-northwestwards and intensify into CS on 27/12 over westcentral BoB. To move towards north AP & south Odisha coasts with further intensification.	LPA over southwest Arabian Sea during 19/00 to 21/00 to weaken gradually. The upper air associated cycir to move westwards towards Somalia coasts on 22/12.
IMD AURORA	WML over eastcentral BoB on 23/00. Moving east –northeastwards, intensify into D over the same region on 24/00. Continuing to move east-northeastwards, to further intensify into DD over northeast BoB on 25/00 and cross north Myanmar coasts. This model is an outlier.	WML over southwest AS to move westwards.
IMD FGN	LPA over central BoB on 24/00. To move west-northwestwards and intensify into D over central BoB on 25/00, into DD over westcentral BoB on 26/00. To move towards Odisha coasts as DD and cross the coasts on 28/00.	No significant system is indicated over AS during next 7 days.
IMD FCN	WML over westcentral BoB on 23/00 and move west-northwestwards, intensify into DD over westcentral BoB & adjoining Odisha coasts on 24/00. Thereafter while moving parallel to coast, to recurve and move north-northeastwards as DD and cross West Bengal & Bangladesh coasts on 25/00.	No significant system is indicated over AS during next 7 days.
NCMRWF	No significant system is indicated over	No significant system is indicated

FOURCAST NET	BoB during next 7 days.	over AS during next 7 days.
NCMRWF GRAPHCAST	WML over westcentral BoB on 24/00. It is indicated to move north-northeastwards towards West Bengal & Bangladesh coasts on 26/00 and become less marked thereafter.	No significant system is indicated over AS during next 7 days.
NCMRWF PANGU	WML over westcentral BoB on 24/00. To move north-northeastwards and cross Bangladesh coast as WML on 25/00 and become less marked thereafter. Another LPA over central BoB on 26/00. To intensify into a WML over the same region on 27/00. To move west-northwestwards and intensify further into D on 28/00 and move towards south AP coasts. To intensify further into DD over westcentral BoB on 29/00. To cross south AP coast on 29/00.	No significant system is indicated over AS during next 7 days.

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 (BoB):

Various models indicate the emergence of an upper air cyclonic circulation over the Andaman Sea during 20th–22nd October, likely to intensify into a low-pressure area over the central/eastcentral Bay of Bengal during 22nd–26th October. NCEP-GFS indicates intensification into a depression on 23rd October, deep depression on 23rd October and cyclonic storm on 24th October, while ECMWF and EC-AIFS indicate intensification into a cyclonic storm on 26th and 27th October, respectively. IMD-GFS indicates further intensification into a cyclonic storm over the north Andaman Sea adjoining southeast BoB on 28th October. Most of these models indicate west-northwestward movement towards the north Andhra Pradesh–south Odisha coasts, with landfall over north Andhra Pradesh on 28th October by ECMWF, Odisha on 28th October by NCEP-GFS and IMD-FGN, and south Andhra Pradesh on 29th October by NCMRWF PANGU. However, NCMRWF GraphCast and NCMRWF PANGU indicate north-northeastward movement towards the West Bengal–Bangladesh coasts during 25th–26th October, while IMD-AURORA indicates movement towards the north Myanmar coast. These models are outliers compared to the majority of model guidance. IMD-GFS also indicates the formation of another system over the south Andaman Sea around 28th October. Considerable divergence exists among various models regarding the timing, intensity and track of the systems; however, a broad consensus exists on the

development and subsequent intensification of a low-pressure system over the central/eastcentral BoB during 24th–26th October.

(b) Arabian Sea (AS):

Most models, including IMD-GFS, IMD-GEFS, MITHUNA, NEPS, ECMWF, NCEP-GFS and EC-AIFS, indicate a low-pressure area or associated cyclonic circulation over the southwest Arabian Sea during 19th–21st October, followed by gradual weakening and westward movement towards the Somalia coast during 22nd–23rd October. There is broad agreement among models regarding the weakening of this system, with no significant further intensification indicated by most models.

ECMWF and NEPS indicate the development of another low pressure system over the Lakshadweep area and adjoining southeast/eastcentral Arabian Sea during 23rd–25th October. ECMWF indicates further intensification into a depression on 26th October, followed by eastward movement towards the Gulf of Mannar on 27th October and gradual weakening thereafter. NEPS indicates gradual weakening of the system, with another low-pressure area reappearing over the same region during 28th–29th October.

Inference:

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

- ❖ The well marked low pressure area over southwest Arabian is very likely to continue to move west-northwestwards maintaining its intensity of well marked low pressure area during next 12 hours. Thereafter, it is likely to continue to move further west-northwestwards as a low pressure area till 21st and then west-southwestwards towards Somalia coast on 22nd October.
- ❖ Under the influence of the upper air cyclonic circulation over Southwest Bay of Bengal and adjoining Tamil Nadu coast a low pressure area is likely to form over the same region during next 24 hours.
- ❖ The upper air cyclonic circulation over Gulf of Thailand and adjoining Thailand & Myanmar is likely to emerge into north Andaman Sea by tomorrow the 21st October, morning. Thereafter it is very likely to move west-northwestwards and under its influence a low-pressure area is likely to form over Southeast and adjoining Eastcentral Bay of Bengal around 23rd October, 2026. Then it is likely to move north-westwards and intensify further. Hence low to moderate probability is assigned to cyclogenesis (formation of depression) during 120-168 hours.

A continuous watch is being maintained wrt further development and movement of above mentioned systems.

Confidence Level in estimation of following wrt Well Marked Low Pressure Area over Southwest Arabian Sea:

- (a) Current location and intensity: Moderate
- (b) Forecast Track: Moderate
- (c) Forecast intensity: Moderate

Confidence Level in estimation of following parameters wrt likely Low Pressure Area over southeast & adjoining eastcentral Bay of Bengal around 23rd Oct:

- (a) Forecast location and intensity: Moderate
- (b) Forecast Track: Moderate
- (c) Forecast intensity: Moderate

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	LOW	MOD

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

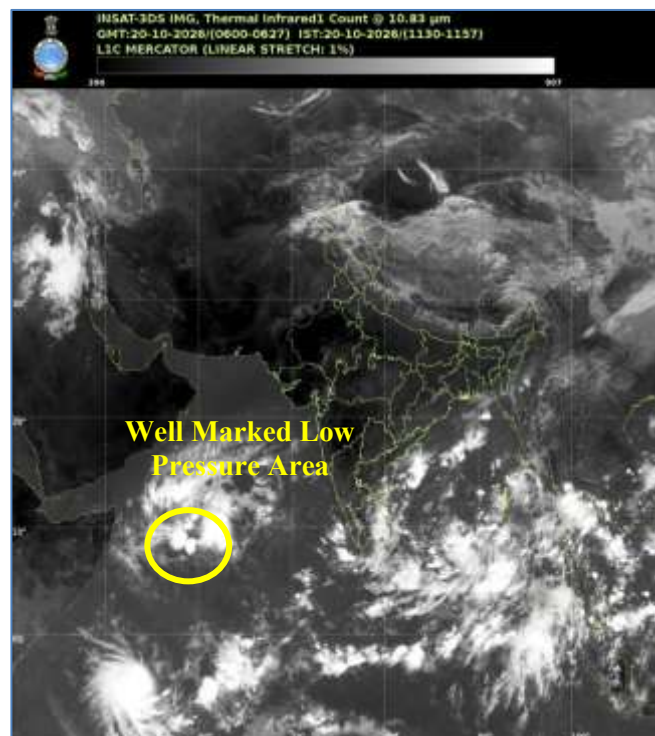
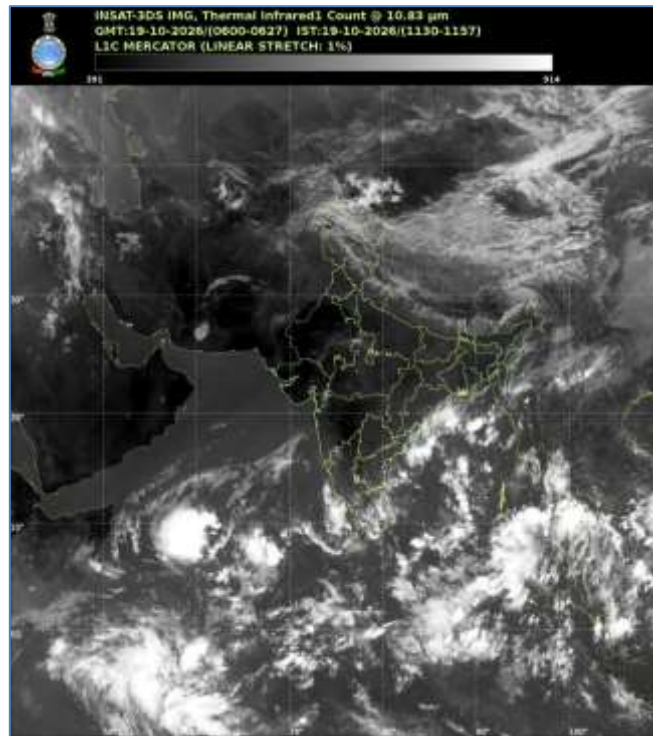
“- “indicates genesis has already occurred.

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.

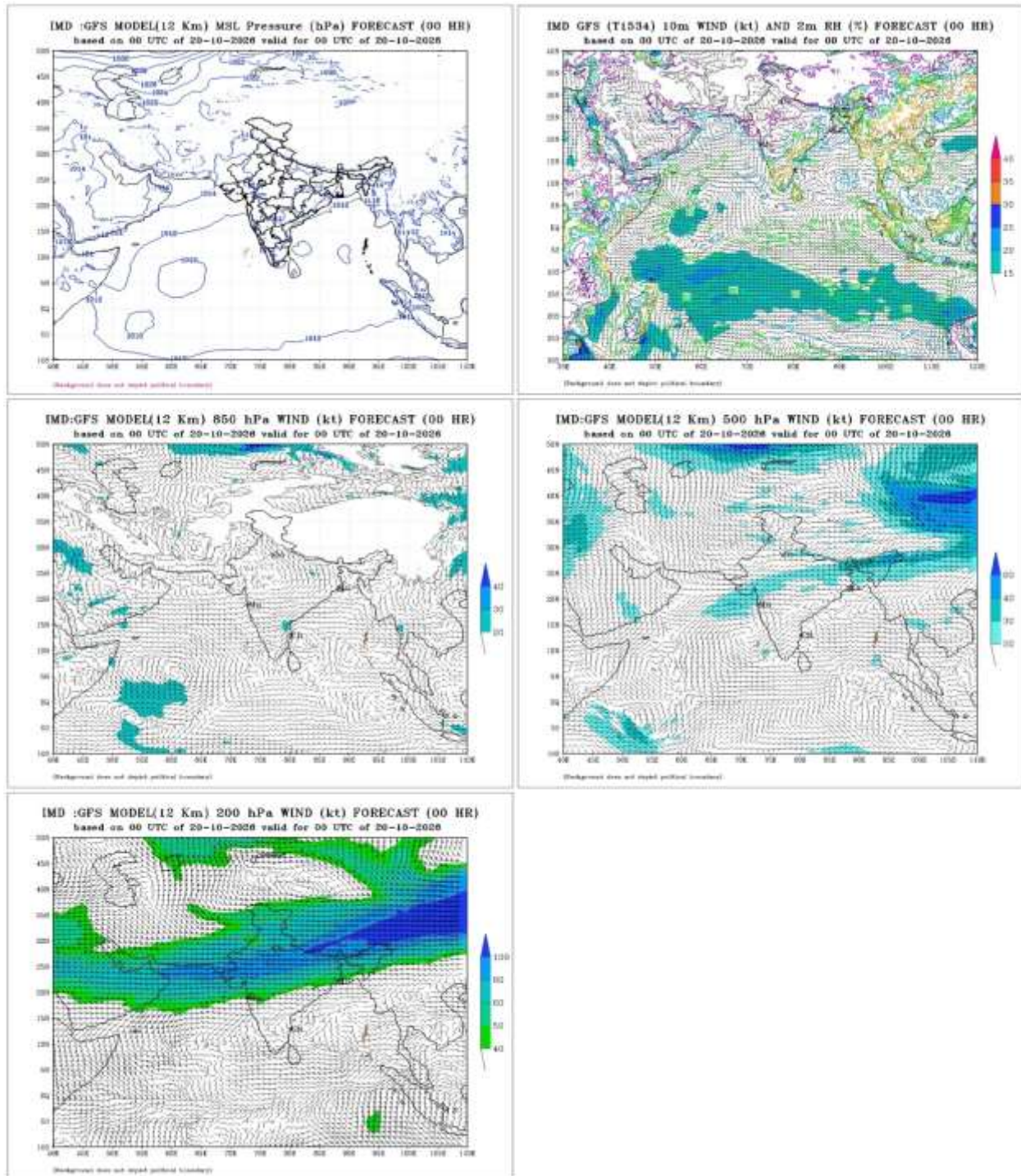
Intense Observation Period (IOP):

- (a) IOP is declared for Somalia coast, Socotra Islands during 20th -22nd October.
- (b) IOP is declared for Andaman & Nicobar Islands during 23rd-25th October
- (c) IOP is declared for Lakshadweep & Kerala during 23rd-24th October.

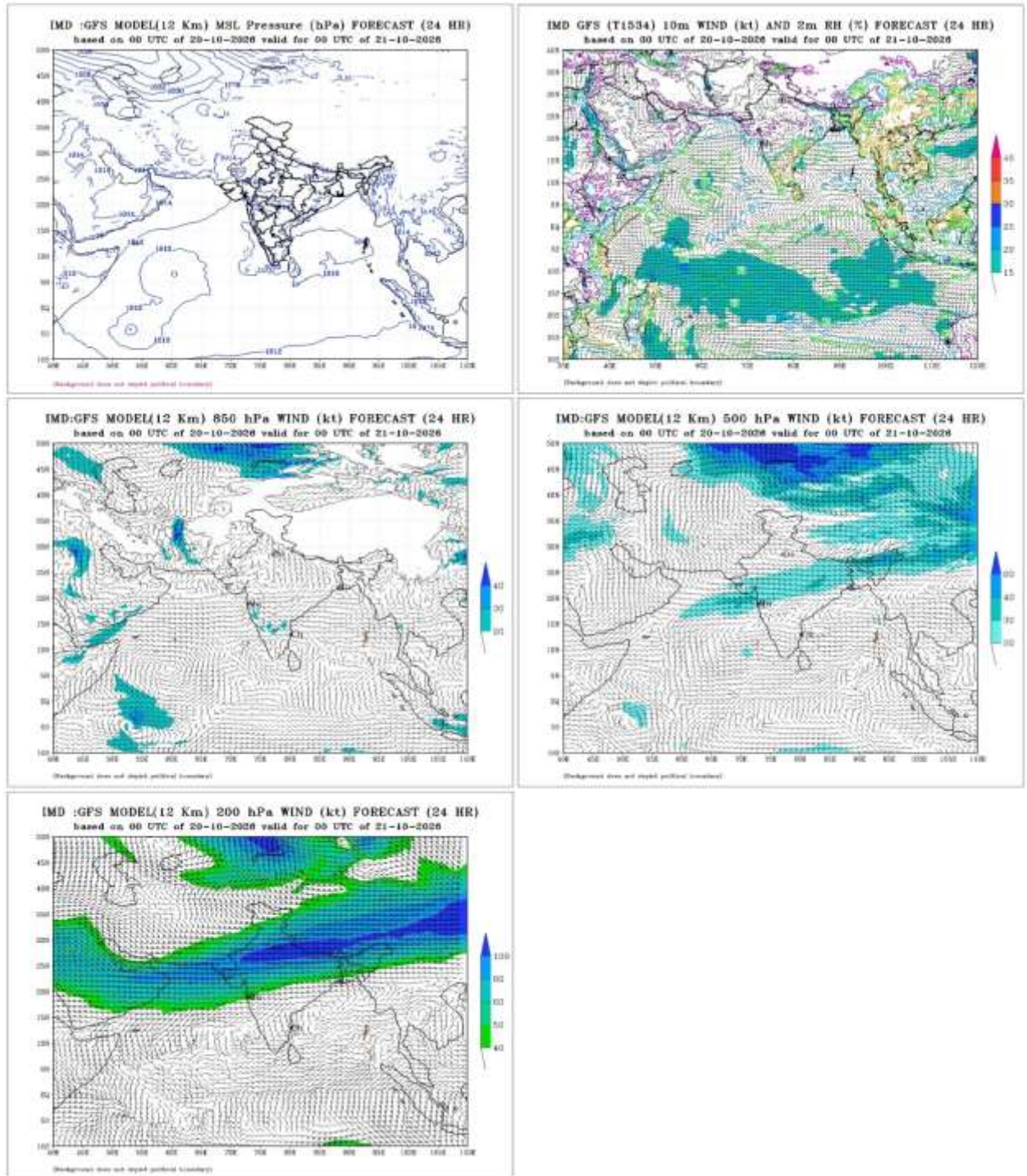
INSAT 3DR imageries at 0600 UTC of 19th& 20thOctober



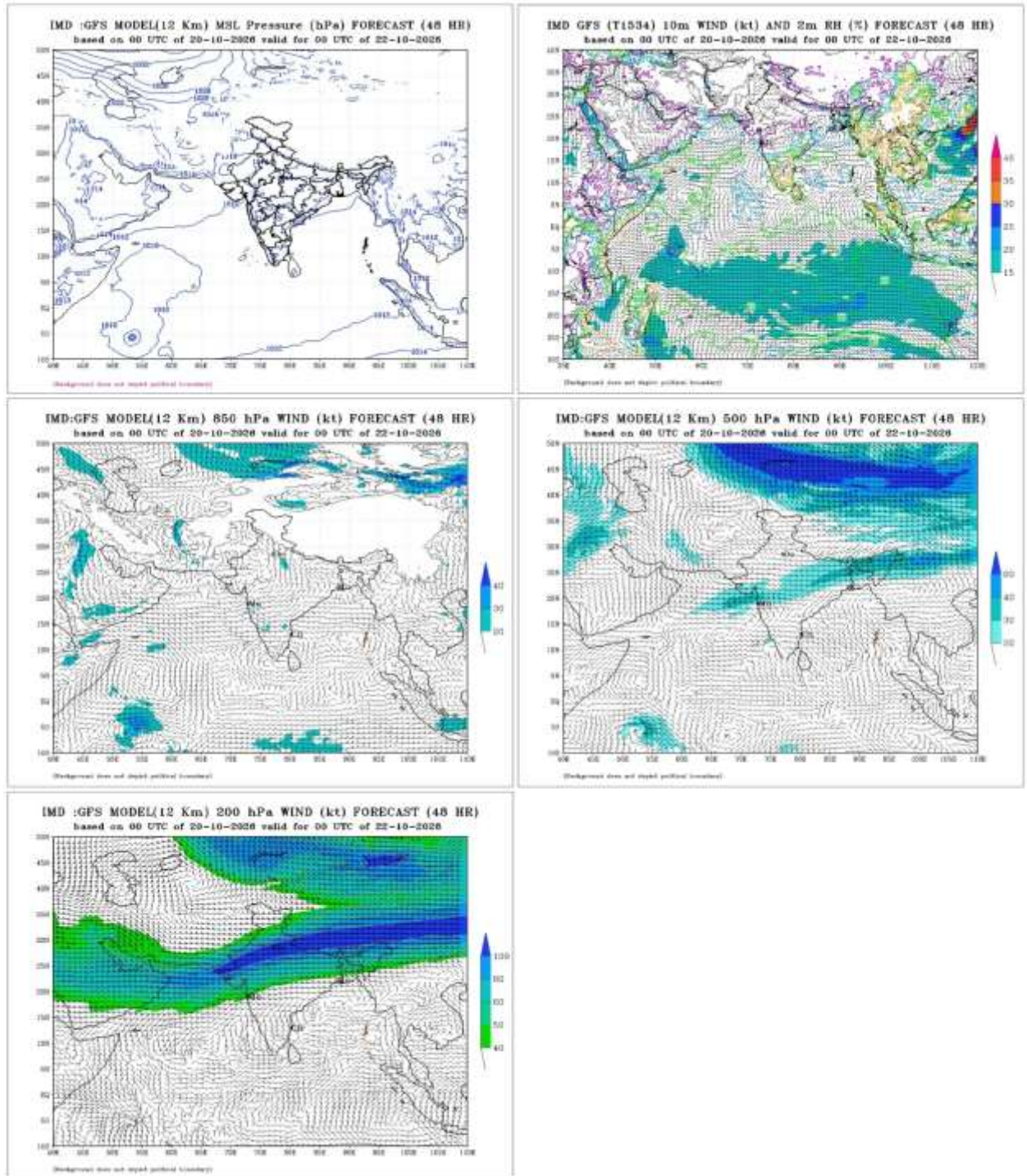
Forecast +00h



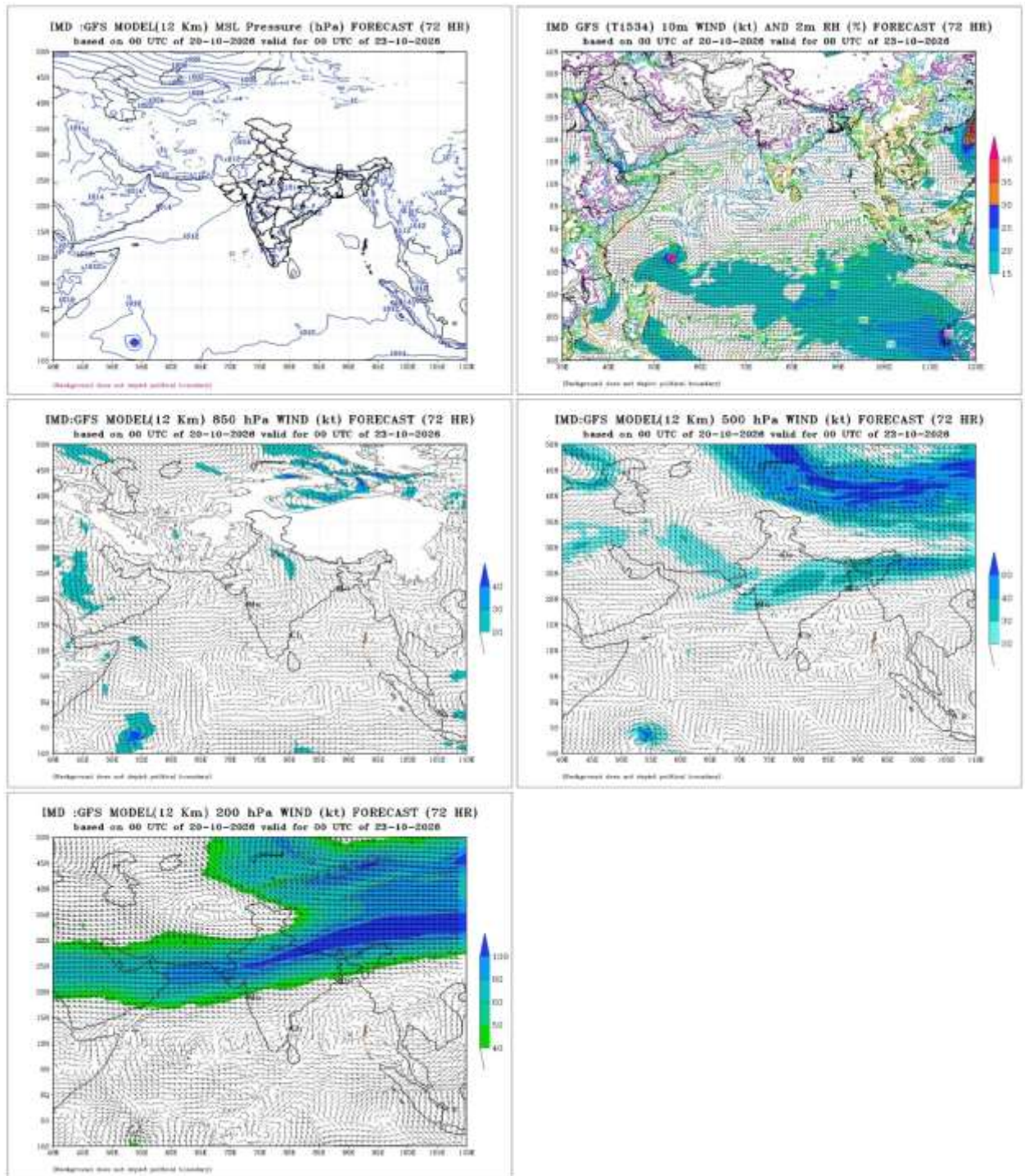
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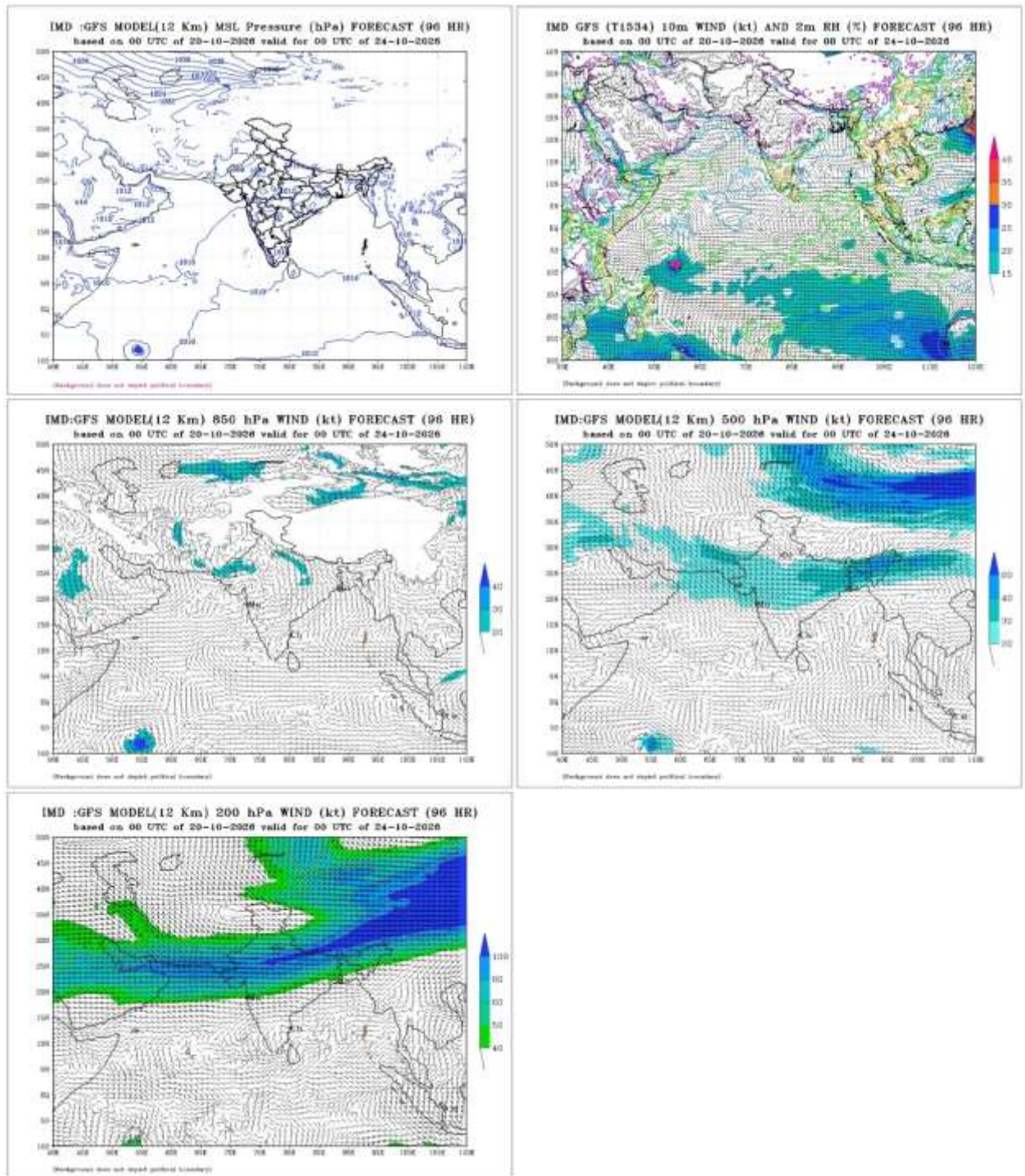
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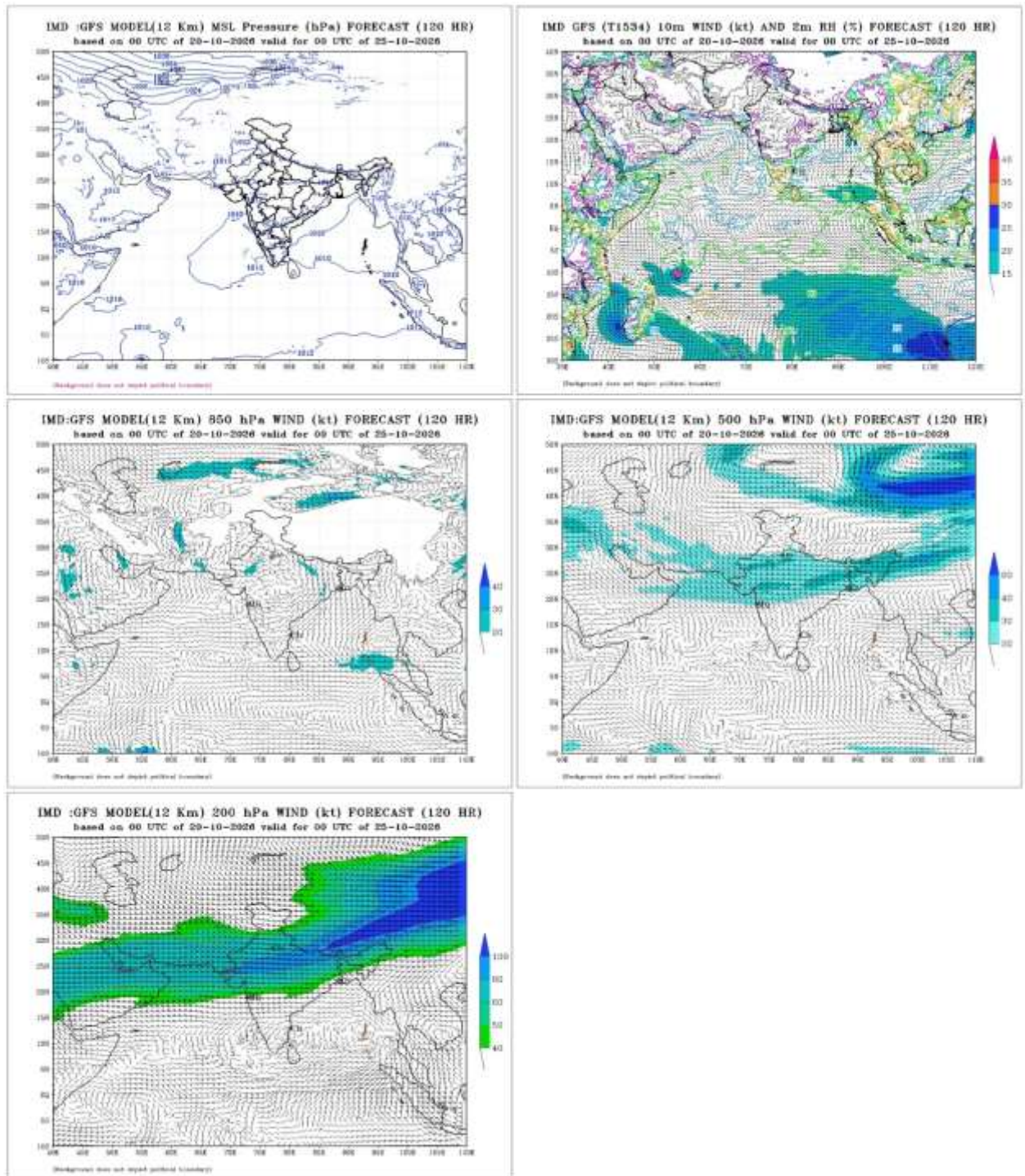
Forecast +72h



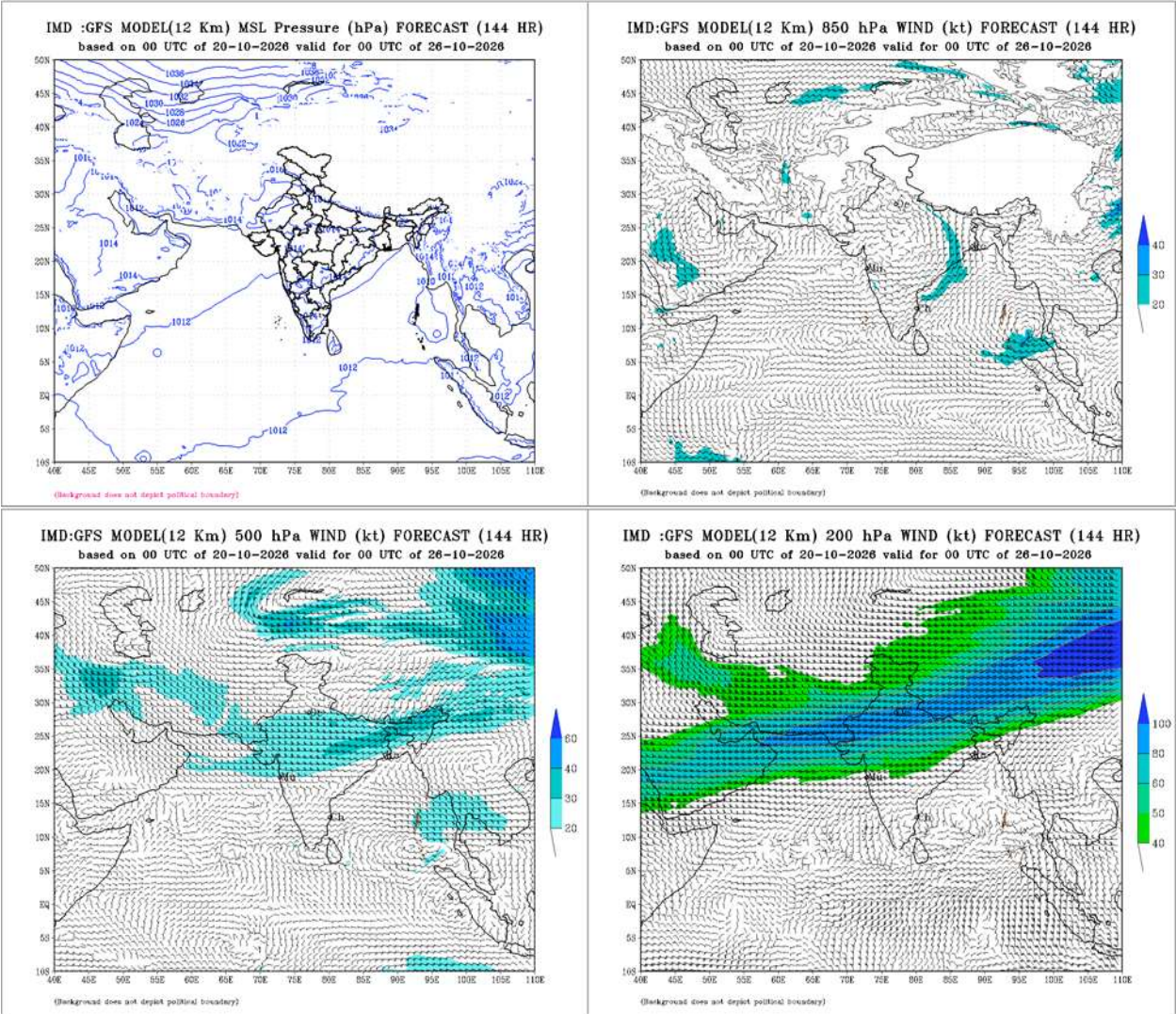
Forecast +96h



Forecast +120h



Forecast +144h



Forecast +168h

