



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

Tropical Cyclone Forecast Programme
Report Dated 15th October 2026

Time of Issue: 1200 UTC

Synoptic features (based on 0900 UTC analysis):

- ❖ An upper air cyclonic circulation lay over south coastal Tamil Nadu extending upto 1.5 km above mean sea level at 0900 UTC of today, the 15th October, 2026.
- ❖ An upper air cyclonic circulation lay over the southeast Arabian Sea & adjoining Lakshadweep extending between 1.5 & 4.5 km above mean sea level at 0900 UTC of today, the 15th October, 2026.

Environmental Features based on 0900 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 central parts of BoB.	120-130 over most parts of AS with 140-150 over southeast parts of BoB.
Cyclonic Relative vorticity ($\times 10^{-6} \text{s}^{-1}$) at 850 hPa	30-40 over westcentral & adjoining southwest BoB along & off South Andhra Pradesh-Tamil Nadu Coasts.	60-70 over southwest AS & adjoining Equatorial Indian Ocean (EIO) 20-30 over parts of southeast AS.
Cyclonic Relative vorticity ($\times 10^{-6} \text{s}^{-1}$) at 500 hPa	60-70 over southwest BoB & adjoining North Sri Lanka 30-40 over westcentral BoB.	60-70 over EIO & adjoining southwest AS 40-50 over some parts of southeast AS off South Kerala coast.
Low-Level convergence ($\times 10^{-6} \text{s}^{-1}$)	5-10 over parts westcentral BoB. 5 over southwest BoB	15-20 over southeast and adjoining southwest AS. 5-10 over southeast BoB and Yemen Coast
Upper-Level divergence ($\times 10^{-6} \text{s}^{-1}$)	10 to 20 over westcentral & southwest BoB.	20-30 over southeast AS along and off Yemen Coast. 10 over Lakshadweep area. 5 over northeast AS
Vertical Wind Shear (VWS) Low: 05-10 knots Moderate: 10-20 knots High: >20 knots	Low over central and south BoB. Moderate to High over North & adjoining central BoB.	Low over south Arabian Sea. High wind shear over north and central Arabian Sea.
Wind Shear Tendency (knots)	Decreasing over westcentral BoB. Increasing over eastcentral, southeast BoB	Decreasing over southeast & adjoining southwest Arabian Sea and eastcentral AS. Increasing over rest of the area.

Upper tropospheric Ridge	➤ Ridge is running along 17°N.	A ridge is running along 12°N.
GPP	Potential cyclogenesis zone over southeast AS during 15 th to 21 st October.	-

M.J.O. Index:

The guidance from various numerical models indicate that the Madden Julian Oscillation (MJO) is currently in Phase 2 with amplitude more than 1. It is likely to move across phase 3 from 15th October onwards with amplitude remaining close to 1 during week 1. 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) & Kelvin Wave (KW) over southwest BoB & easterly wind anomaly (7-9mps) over eastcentral BoB during first half of week 1. Thereafter, during later part of week 1 the model is indicating westerly wind anomaly (3-5mps) over most parts of BoB along with ERW & MJO wave and easterly wind anomaly over northern parts of India & KW over north BoB during later part of week 1. These features indicate a favorable environment for development of cyclonic circulation /Low pressure area over central BoB during first half of week 1.

Over the AS, during first half of week 1, the NCICS model is indicating easterly wind anomaly (3-5 mps) along with KW over south AS & westerly wind anomaly to its south over Equatorial Indian Ocean (EIO) and adjoining south AS along with ERW and MJO. These features indicate a favorable environment for development of an upper air cyclonic circulation over southeast AS/Lakshadweep Area during beginning of week 1. During later half of week 1, easterly wind anomaly (1-3 mps) along with ERW is indicated over the southeast AS & westerly wind anomaly (1-3mps) over central AS.

Over the Bay of Bengal & Andaman Sea:

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

Over the Arabian Sea:

As per INSAT 3DS at 0900 UTC, scattered to broken low and medium clouds with embedded intense to very intense convection lay over southeast Arabian Sea off Kerala coast adjoining Lakshadweep Islands area and southwest Arabian Sea. Scattered low and medium clouds with embedded moderate to intense convection lay over rest of southeast Arabian Sea, Maldives & Comorin area and isolated weak to moderate convection lay over north & central Arabian Sea.

Outside India:

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	No significant system is indicated during next 7 days.	An upper air cyclonic circulation over southwest AS (6/56) on 15/00, intensifying to Low Pressure Area on 18/00 over same region (9.5/64.8).
IMD-GEFS	No significant system is indicated during next 7 days.	No significant system is indicated during next 7 days.
BFS	No significant system is indicated during next 7 days.	An upper air cyclonic circulation over north Tamil Nadu on 16/00 (13/79) to emerge into eastcentral AS on 21/00 (15/72)
MITHUNA	No significant system is indicated during next 7 days.	An upper air cyclonic circulation over southwest AS (8/57) on 17/00, to move westwards and intensify into Low Pressure Area on 19/00 over same region (9/61). System to move westwards towards Gulf of Aden till 25 th October
NEPS	No significant system is indicated during next 7 days.	An upper air cyclonic circulation over southwest AS (8/55) on 15/00, to move westwards and intensify to Low Pressure Area on 17/00 over same region (5/60). System to move westwards till 24 th October
ECMWF	No significant system is indicated during next 7 days.	No significant system is indicated during next 7 days.
NCEP-GFS	No significant system is indicated during next 7 days.	An upper air cyclonic circulation over southwest AS (8/55) on 16/18, to intensify into Low Pressure Area on 18/00 over same region (6.5/59). It is likely to intensify further and move west westwards towards Gulf of Aden till 24 th October
EC-AIFS	No significant system is indicated during next 7 days.	No significant system is indicated during next 7 days.
IMD AURORA	No significant system is indicated during next 7 days.	No significant system is indicated during next 7 days.
FOURCAST NET	No significant system is indicated during next 7 days.	An upper air cyclonic circulation over southwest AS (8/58) on 19/00, to intensify to Low Pressure Area on 20/00 over same region (7/58). It is likely to intensify further and move westwards towards Somalia till 22 nd October.
GRAPHCAST	No significant system is indicated during next 7 days.	No significant system is indicated during next 7 days.
PANGU	No significant system is indicated during next 7 days.	No significant system is indicated during next 7 days.

Models are also indicating a prominent easterly wave with trough running along 88°E upto 18°N with an embedded upper air cyclonic circulation in lower tropospheric levels over westcentral Bay of Bengal around 17th October. Moving southwestwards, it is indicated to reach southwest BoB off North Tamil Nadu coast around 21st October. It is likely to move across South Peninsular India and emerge over southeast Arabian Sea around 22nd October.

Summary:

(a) Bay of Bengal:

No significant system is indicated over the Bay of Bengal during next 7 days.

(a) Arabian Sea

Most of the models are indicating development of an upper upper air cyclonic circulation over southwest Arabian Sea around 17th October. It is indicated to move nearly westwards towards Gulf of Aden during subsequent 3-4 days.

Most of the models are however, not capturing the existing upper air cyclonic circulation over southeast Arabian Sea & adjoining Lakshadweep. However, it is likely to persist over the same region during next 1-2 days.

Inference:

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

- (a) the existing upper air cyclonic circulation over southeast Arabian Sea & adjoining Lakshadweep is likely to persist over the same region during next 1-2 days.
- (b) an upper upper air cyclonic circulation over southwest Arabian Sea around 17th October. It is indicated to move nearly westwards towards Gulf of Aden during subsequent 3-4 days.

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:

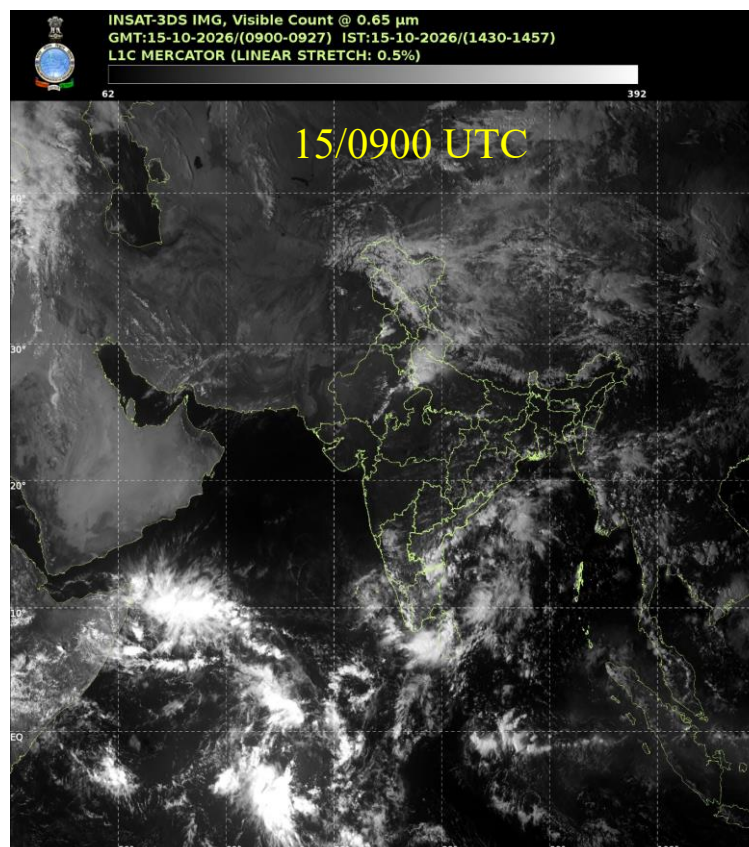
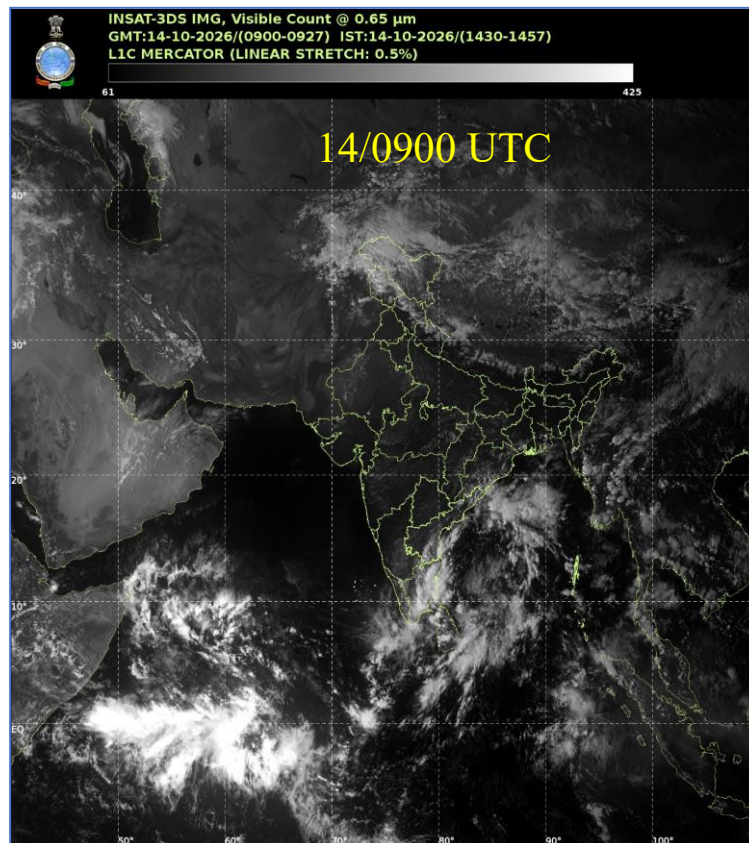
24 HOURS	24-48 HOURS	48-72 HOURS	72-96 HOURS	96-120 HOURS	120-144 HOURS	144-168 HOURS
NIL	NIL	NIL	NIL	NIL	NIL	NIL

“- “indicates genesis has already occurred.

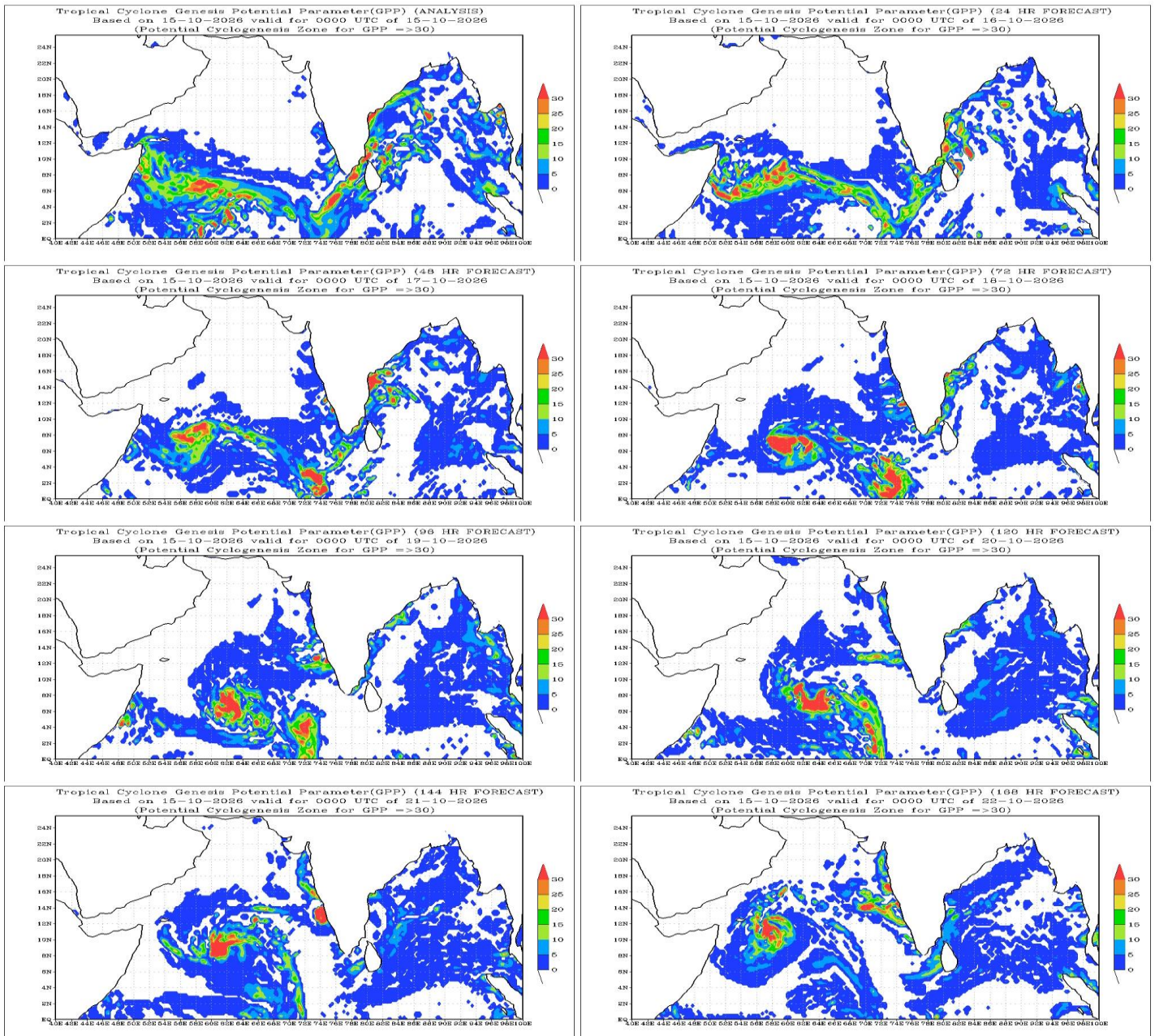
Probability is indicated as NIL for 0%, LOW for 1-33%, MOD for 34-67% and High for 68-100%. Every 24 hrs forecast ends at the 0300 UTC of date.

Intense Observation Period (IOP): NIL.

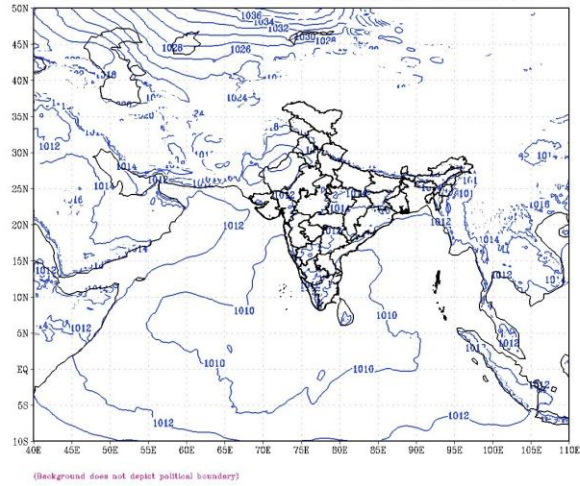
INSAT 3DR imageries at 0900 UTC of 14th & 15th October



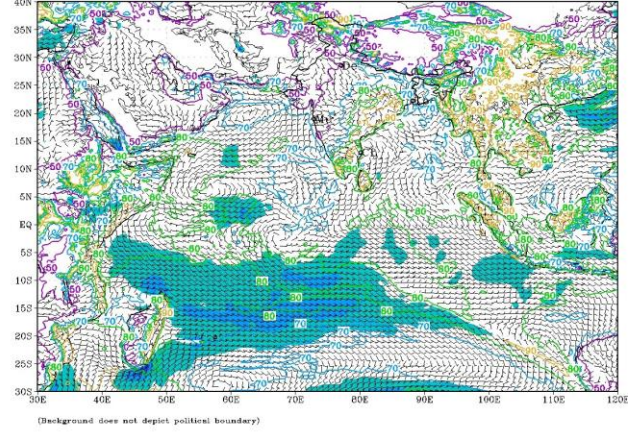
Annexure



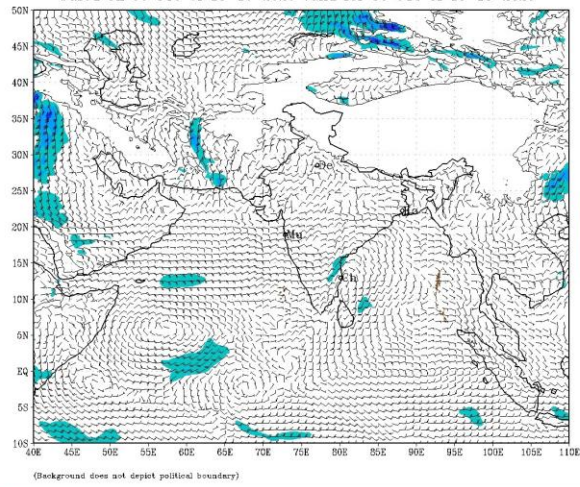
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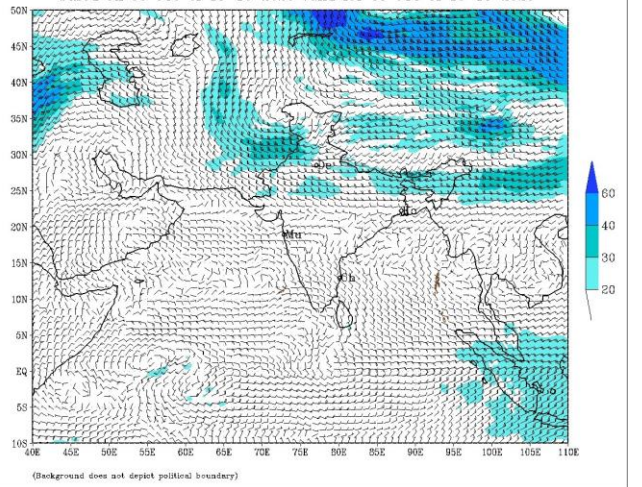
IMD GFS (T1534) 10m WIND (kt) AND 2m RH (%) FORECAST (00 HR)
based on 00 UTC of 15-10-2026 valid for 00 UTC of 15-10-2026



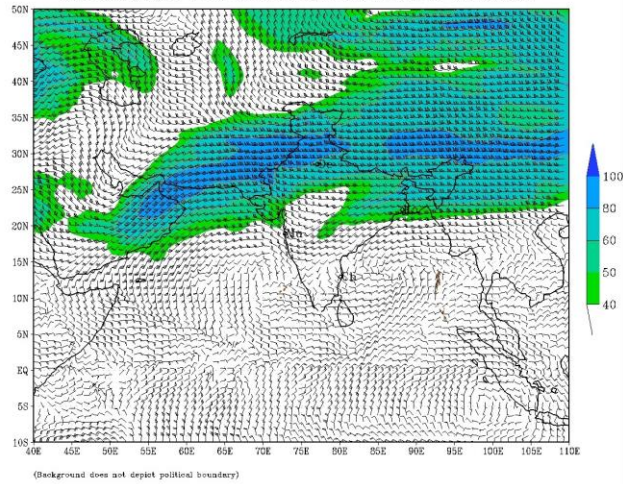
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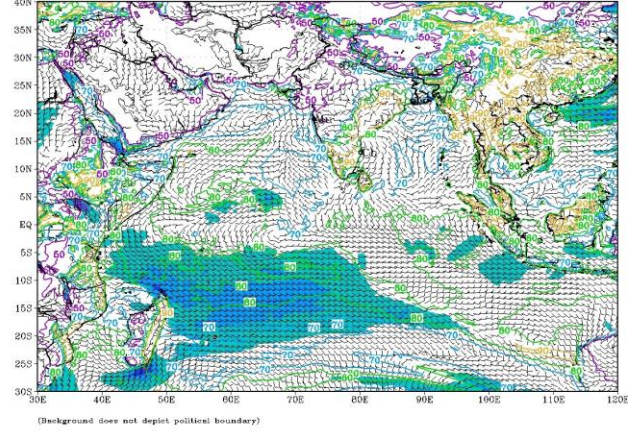
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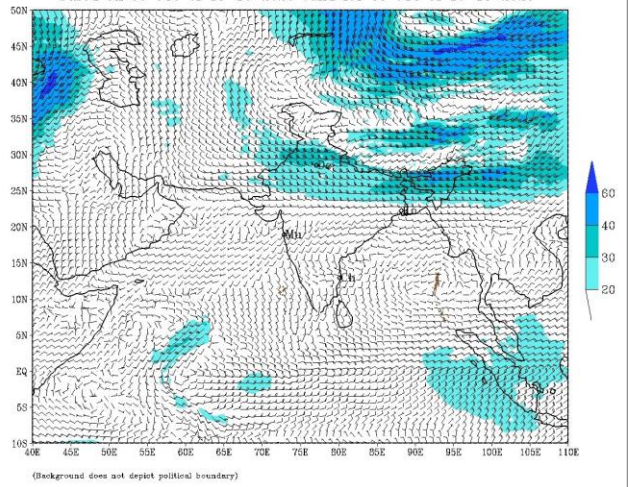
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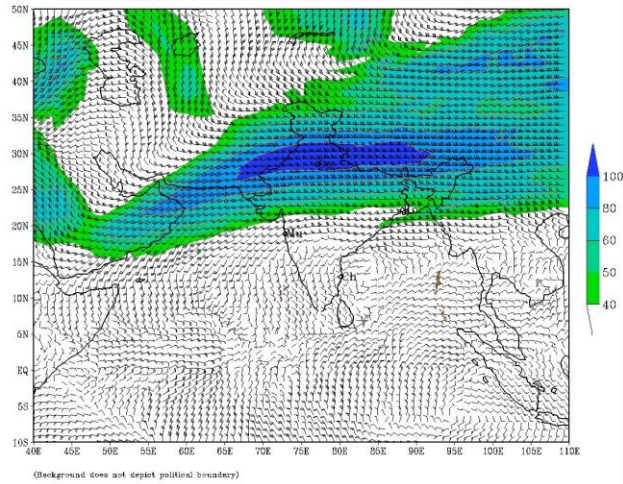
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based on 00 UTC of 15-10-2026 valid for 00 UTC of 16-10-2026



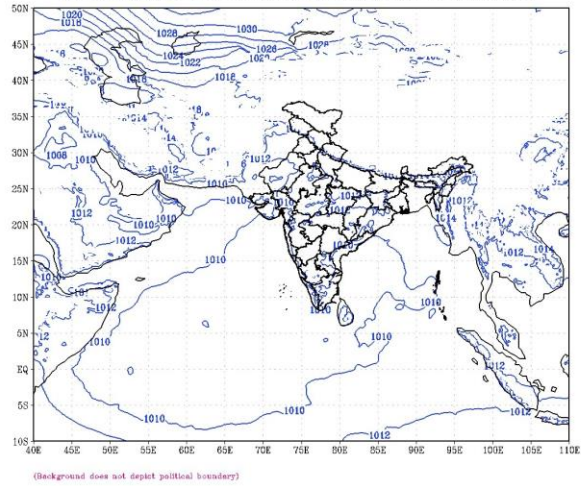
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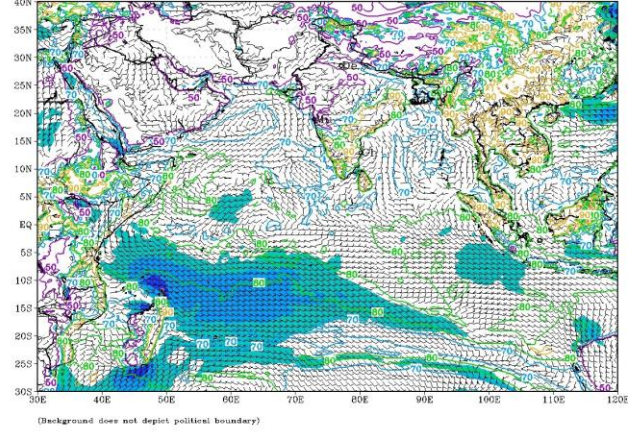
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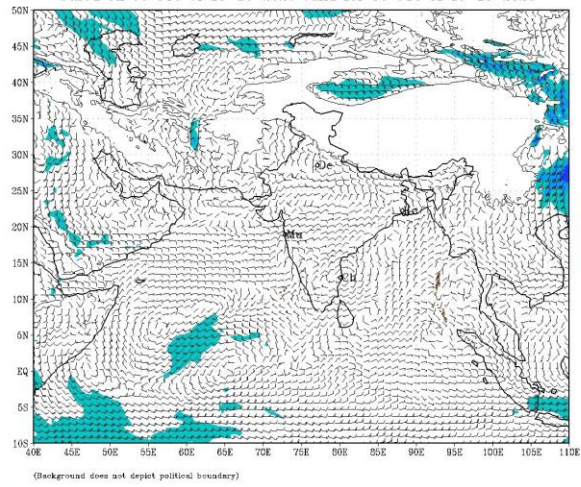
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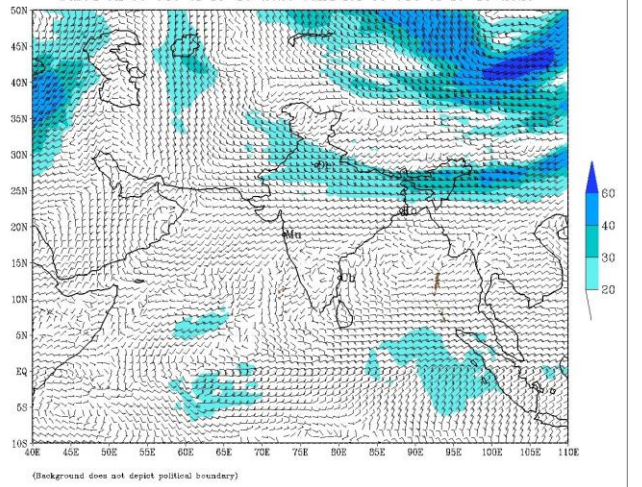
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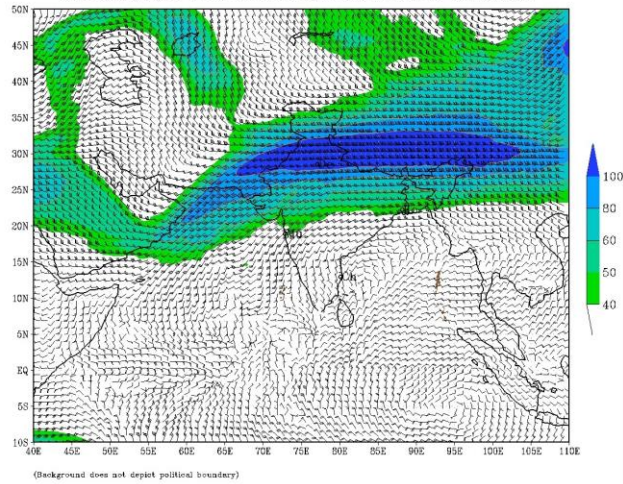
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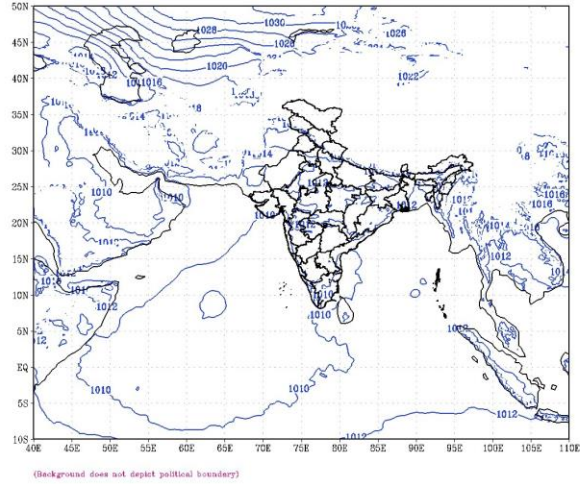
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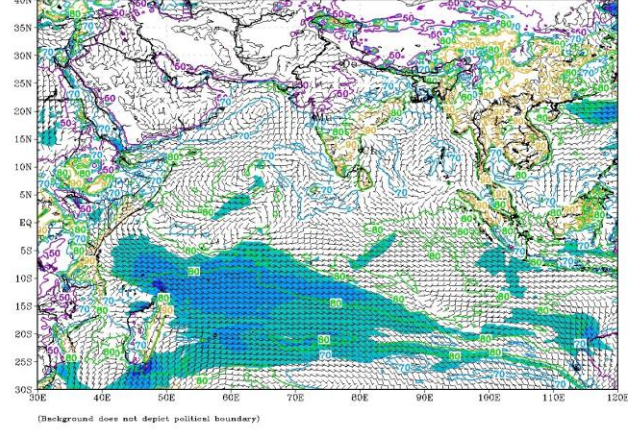
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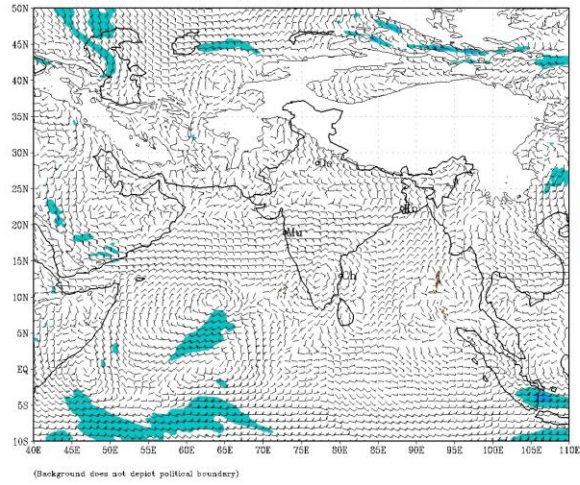
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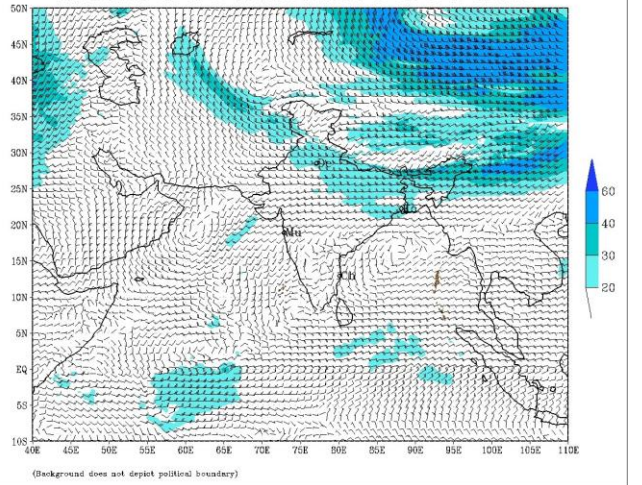
IMD GFS (T1534) 10m WIND (kt) AND 2m RH (%) FORECAST (72 HR)
based on 00 UTC of 15-10-2026 valid for 00 UTC of 18-10-2026



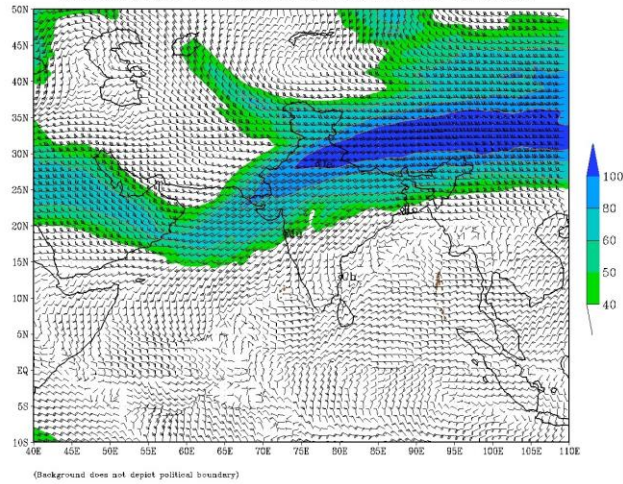
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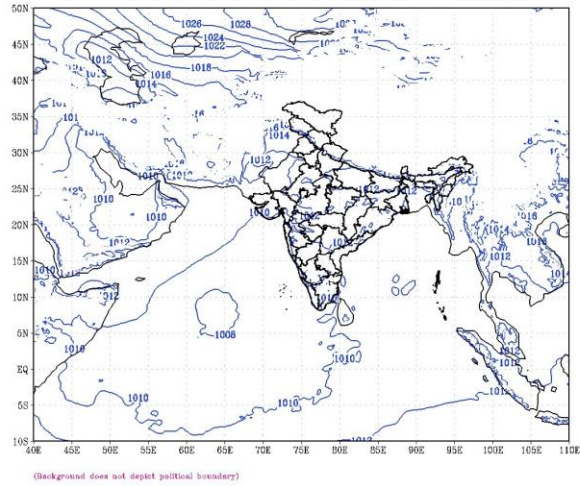
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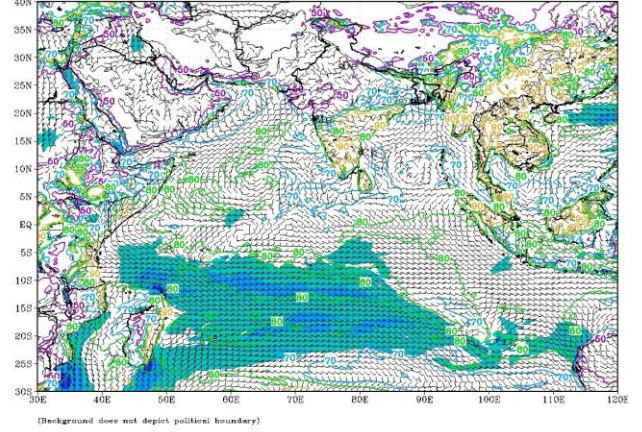
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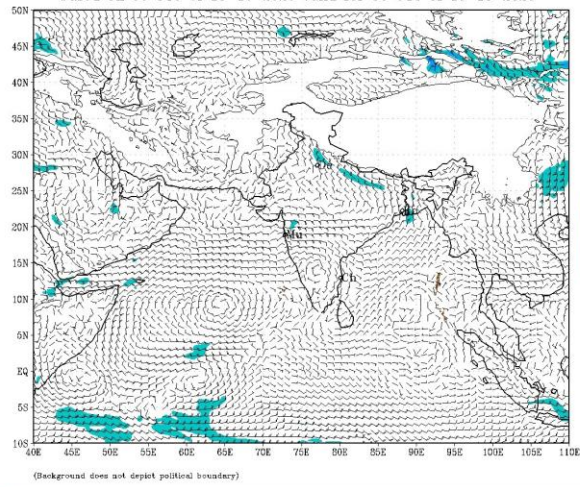
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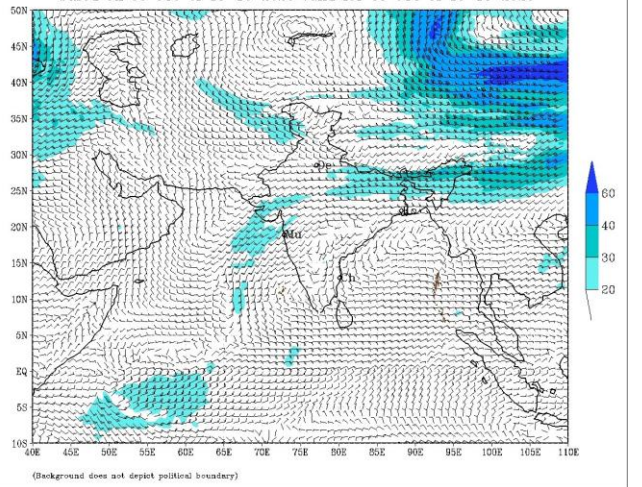
IMD GFS (T1534) 10m WIND (kt) AND 2m RH (%) FORECAST (96 HR)
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based on 00 UTC of 15-10-2026 valid for 00 UTC of 19-10-2026



IMD:GFS MODEL(12 Km) 500 hPa WIND (kt) FORECAST (96 HR)
based on 00 UTC of 15-10-2026 valid for 00 UTC of 19-10-2026



IMD :GFS MODEL(12 Km) 200 hPa WIND (kt) FORECAST (96 HR)
based on 00 UTC of 15-10-2026 valid for 00 UTC of 19-10-2026

