



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

**Tropical Cyclone Forecast Programme  
Report Dated 16<sup>th</sup> October, 2023**

**Time of Issue: 1230 UTC**

**Synoptic features (based on 0300 UTC analysis):**

The cyclonic circulation over Lakshadweep area and adjoining Southeast Arabian sea & Kerala coast now lies over Southeast Arabian Sea & adjoining Lakshadweep area and extends upto 3.1 km above mean sea level. Under its influence, a low pressure area is likely to develop over southeast & adjoining eastcentral Arabian sea during next 48 hours. It is likely to move further westnorthwestwards and intensify into a depression over central Arabian sea around 21st October.

**Dynamical and thermo-dynamical features**

| Parameter  | Bay of Bengal (BoB)   | Arabian Sea (AS)   |
|--|---|--|
| Sea Surface Temperature (SST) °C                                 | 29-30°C over entire BOB. 30-31°C over some parts of westcentral BOB.                    | 29-30°C over southeast, southwest and eastcentral Arabian sea.   |
| Tropical Cyclone Heat Potential (TCHP) kJ/cm <sup>2</sup>        | 100-120 over eastcentral BoB. 60-80 over remaining parts of BOB.                        | 60-80 over eastcentral & south Arabian Sea.<br>20-30 over west coast of Arabian Sea.   |
| Cyclonic Relative vorticity (X10 <sup>-6</sup> s <sup>-1</sup> ) | Positive vorticity of 30-40 over south BOB with vertical extension upto 500 hpa levels. | Positive vorticity of 30-40 over SouthEast AS with vertical extension upto 200 hPa level.<br>Positive vorticity of 30-40 over Comorin Area with vertical extension upto 500 hPa level. |
| Low Level convergence (X10 <sup>-5</sup> s <sup>-1</sup> )       | Zone of 15 is observed over south & adjoining central BOB.                              | Zone of 10 is observed over southeast Arabian sea, Comorin area.   |
| Upper Level divergence (X10 <sup>-5</sup> s <sup>-1</sup> )      | 20 is observed over south BOB.  | 20 over southeast Arabian sea adjoining eastcentral Arabian Sea. Small zone of 5 is observed over southeastern Arabian sea.  |
| Vertical Wind Shear (VWS knots)                                  | Low to moderate over south & central BoB.   | Low to moderate over south & central AS  |
| Wind Shear   | Increasing tendency over major  | Decreasing over southeast AS.  |

|                                 |                         |                       |
|---------------------------------|-------------------------|-----------------------|
| <b>Tendency (knots)</b>         | parts of BoB.           |                       |
| <b>Upper tropospheric Ridge</b> | Along 13 .0°N over BoB. | Along 13 .0°N over AS |

**Satellite observations based on INSAT imagery (0300 UTC):**

**(a) Over the BoB & Andaman Sea:-**

At 0300 UTC, scattered low and medium clouds with embedded intense to very intense convection lay over south BoB and South Andaman Sea. Scattered low and medium clouds with embedded moderate to intense convection lay over North Andaman Sea, Gulf of Martaban and isolated weak to moderate convection lay over central BoB.

**(b) Over the Arabian Sea:-**

At 0300 UTC, scattered low and medium clouds with embedded moderate to intense convection lay over southeast AS and isolated weak to moderate convection lay over central & southwest AS.

**(c) Convection outside India:**

Scattered low and medium clouds with embedded moderate to intense convection lay over Palk strait, Gulf of Mannar, Maldives, northeast Pakistan, Tibet, China, south Myanmar, Thailand, Gulf of Thailand, Cambodia, Laos, Vietnam, Hainan, Sumatra, Strait of Malacca, Malaysia, Borneo, South China sea, Celebes Sea, Philippines, Taiwan, south Mozambique Channel and over Indian Ocean between Lat 5.0N to 2.0S and east of long 50.0E.

**M.J.O. Index:**

MJO index is in Phase 1 with amplitude greater than 1. It will continue in same phase during next 7 days with amplitude becoming less than 1 from 17<sup>th</sup> with gradually decreasing trend.

**Storms and Depression over South China Sea/ South Indian Ocean:**

Nil

**Input for FDP Cyclone based on 0000 UTC for the next 7 days**

| <b>MODEL GUIDANCE</b> | <b>Bay of Bengal (BoB)</b>  | <b>Arabian Sea (AS)</b>   |
|-----------------------|---|---|
| <b>IMD-GFS</b>        | A Cyclonic circulation (Cycir) over Andaman Sea on 21 <sup>st</sup> (10N/95E). Low pressure area (LPA) over central parts of south BoB and adjoining central BoB on 21 <sup>st</sup> , southwest and adjoining southeast BoB on 23 <sup>rd</sup> . Depression/Deep Depression over westcentral and adjoining southwest BoB on 23 <sup>rd</sup> , Severe/Very Severe cyclonic storm over westcentral BoB off south Andhra Pradesh coast on 24 <sup>th</sup> , cross Andhra Pradesh coast around 16N/82E on 25 <sup>th</sup> with reduced intensity and lay over AP coast as LPA/Depression on 25 <sup>th</sup> . | Extended Cycir over southeast AS and adjoining Lakshadweep area on 16 <sup>th</sup> , southeast AS on 17 <sup>th</sup> , Cycir over southeast AS on 18 <sup>th</sup> , cycir over southwest and adjoining south AS on 19 <sup>th</sup> . To move westwards towards Somalia coast till 24 <sup>th</sup> Oct. |
| <b>IMD-GEFS</b>       | Cycir over southwest and adjoining westcentral BoB on 21 <sup>st</sup> , extended low over southwest and adjoining southeast  | Extended Cycir over southeast AS and adjoining Lakshadweep area on 18 <sup>th</sup> , LPA over southeast AS on 19 <sup>th</sup> &   |

|                             |  |  |
|-----------------------------|--|--|
|                             | BoB (10N/87E) on 18 <sup>th</sup> , LPA over the central parts of central and south BoB (14N/87E) on 21 <sup>st</sup> , Well Marked Low (WML) over westcentral BoB off AP coast (16N/83E) on 24 <sup>th</sup> .  | 20 <sup>th</sup> . To move nearly westwards as Cycir towards southwest AS till 23 <sup>rd</sup> .  |
| <b>IMD-WRF</b>              | A cycir over eastcentral and adjoining north Andaman Sea (14N/92E) on 19 <sup>th</sup> .   | An extended cycir over southeast and adjoining southwest AS on 18 <sup>th</sup> and 19 <sup>th</sup> .   |
| <b>NCMRWF-NCUM</b>          | Extended cycir over southwest BoB (12N/82E) on 20 <sup>th</sup> , over the same region on 21 <sup>st</sup> . LPA over southwest BoB (11N/82E) on 22 <sup>nd</sup> , Depression over westcentral Bob (15N/82E) on 24 <sup>th</sup> , Deep Depression (DD) over westcentral BoB(17N/83E) on 25 <sup>th</sup> . Crossing south AP/north AP coasts (72.5N/82.5E) as DD on 26 <sup>th</sup> .                         | Extended Cycir over southeast AS during 16 <sup>th</sup> -19 <sup>th</sup> with gradual westwards movement, LPA over southwest AS (11N/64E) on 20 <sup>th</sup> . Depression over westcentral AS (13N/60E) on 22 <sup>nd</sup> . To move nearly west-northwestwards towards Oman-Yemen coasts and cross near (16N/52E) at 0000 UTC of till 26 <sup>th</sup> as depression.   |
| <b>NCMRWF-NEPS</b>          | LPA over southwest BoB (11N/82E) on 21 <sup>st</sup> , WML over southwest and adjoining westcentral BoB (12N/82E) on 23 <sup>rd</sup> , Depression over westcentral BoB (15N/82.5E) on 24 <sup>th</sup> . DD over westcentral BoB off north AP-south Odisha coasts (16.5N/82.5E) on 25 <sup>th</sup> , Crossing north AP and adjoining south Odisha coasts near (17.5N/82E) on 25 <sup>th</sup> /0600 UTC as DD. | LPA over southeast AS (10N/69.5E) on 19 <sup>th</sup> , WML over southwest and adjoining westcentral AS (12.5N/62E) on 21 <sup>st</sup> , Depression over westcentral AS (14.5N/60E) on 23 <sup>rd</sup> , DD over westcentral AS (14.5N/58E) on 24 <sup>th</sup> . DD over westcentral AS (15N/56E) on 25 <sup>th</sup> . The model is indicating movement towards Oman-Yemen border.   |
| <b>NCMRWF-UM (Regional)</b> | LPA over southwest BoB (10.2N/84E) on 21 <sup>st</sup> .   | LPA over southeast AS (10N/67E) on 19 <sup>th</sup> , WML over southwest and adjoining southeast AS (12N/64E) on 21 <sup>st</sup> .  |
| <b>ECMWF</b>                | Cycir over eastcentral BoB (13.5N/91.0E) on 20 <sup>th</sup> , LPA over eastcentral BoB (13.3N/88.2E) on 21 <sup>st</sup> , WML over westcentral BoB (13.0N/87.0E) on 22 <sup>nd</sup> (15.0N/86.3E) on 23 <sup>rd</sup> . To intensify further and move gradually north-northwestwards over northwest BoB on 24 <sup>th</sup> cross north Odisha-West Bengal coasts on 25 <sup>th</sup> .                       | Extended Cycir over southeast AS (11.5N/69E) on 16 <sup>th</sup> . Cycir over southeast AS 11.5N/68.6E) on 17 <sup>th</sup> , LPA over southeast AS (11.8N/68.5E) on 18 <sup>th</sup> , Depression over southeast AS (11.0N/64.4E) on 19 <sup>th</sup> . Deep Depression over westcentral AS (11.0N/62.9E) on 20 <sup>th</sup> and Cyclonic storm over westcentral AS (12.0N/59.8E). To move northwestwards with further intensification into VSCS and cross Oman-Yemen coasts to the south of Salalah Airport (17.0N/54.0E) on 24 <sup>th</sup> . |
| <b>NCEP-GFS</b>             | Extended Cycir over eastcentral BoB on 20 <sup>th</sup> (14.0N/90.4E), LPA over eastcentral BoB on 22 <sup>nd</sup> (17.0N/90.0E). WML over eastcentral BoB (18.5N/90.4E) on 23 <sup>rd</sup> , To move nearly northward and Depression over northeast BoB (20.7N/90.5E) on 24 <sup>th</sup> and cross Bangladesh coast near (22.5N/91.0E) on 25 <sup>th</sup> /0600 UTC as a LPA.                               | Extended Cycir over southeast AS (11.2N/66.5E) on 16 <sup>th</sup> , LPA over southeast AS (11.7N/66.0E) on 19 <sup>th</sup> WML (10.0N/64E) on 20 <sup>th</sup> . To move nearly westwards and intensify into a Depression on 21 <sup>st</sup> (10.3N/63.7E), CS over westcentral AS (12.5N/63.0E) on 22 <sup>nd</sup> , SCS over westcentral AS (14.3N/63.2E) on 23 <sup>rd</sup> and (16.5N/62.2E) on 24 <sup>th</sup> . To move  |

|  |  |  |
|--|--|--|
|  |  | nearly northwards and weaken gradually in to a CS on 26 <sup>th</sup> over northwest AS (21.2N/63.0E). Dissipates over Sea (24.3N/62.0E) off Iran-Pakistan coasts.   |
| <b>IMD-Genesis Potential Parameter</b> | Significant zone for cyclogenesis over north Andaman Sea on 19 <sup>th</sup> and eastcentral BoB during 20 <sup>th</sup> -23 <sup>rd</sup> . | Significant zone for cyclogenesis over southeast and adjoining southwest AS (10/63) on 21 <sup>st</sup> , westcentral and adjoining eastcentral AS (12/63) on 22 <sup>nd</sup> , shifting northward to (14/63) on 23 <sup>rd</sup> . |

## Summary and conclusion:

### 1. For the Bay of Bengal:

Most of the models are indicating likely formation of cycir over BoB. However, there is large variation among various models w.r.t. location of cycir, it's further intensification and movement. Based on the 16<sup>th</sup> October/0000 UTC initial conditions, with area of formation varying from eastcentral BoB and southeast BoB. Some models are also indicating cycir over southwest BoB. The date of formation is varying from 18<sup>th</sup> to 21<sup>st</sup> October. Regarding movement, some models are indicating west-northwestward movement towards North Tamil Nadu-South Andhra Pradesh coasts and some are indicating northward towards Bangladesh coast. NCUM group and ECMWF are indicating formation of LPA around 21<sup>st</sup> and GFS group of models are indicating delayed formation of LPA around 22<sup>nd</sup>. Both NCUM group and GFS group are indicating further intensification of system into a depression, subsequently NCUM group into a deep depression and IMD GFS intensifying into a CS stage.

**Hence, it is inferred that a fresh cyclonic circulation is likely to form over central and adjoining southeast BoB around 20<sup>th</sup> October. It is likely to move west-northwestwards, become a low-pressure area around 21<sup>st</sup> October over eastcentral BoB. Further intensification and movement of the system need to be monitored continuously.**

### 2. For the Arabian Sea:

IMD GFS, GEFS and WRF models indicate formation of low pressure area southeast Arabian Sea with nearly westwards movement towards Somalia coast and no further intensification. ECMWF and NCEP GFS are indicating further intensification of this system into a depression during 20<sup>th</sup> (ECMWF)-21<sup>st</sup>(NCEP) and into an intense cyclonic storm. NCUM is also showing formation of a low and further intensification into a depression on 22<sup>nd</sup> along with a west-northwestward movement. However, NCEP is indicating gradually northward movement after 24<sup>th</sup> weakening of the system before landfall while ECMWF & NCUM models depict the landfall of the system over Oman-Yemen coasts on 24<sup>th</sup>.

**Hence, it is inferred that under the influence of existing cyclonic circulation over southeast AS and adjoining Lakshadweep area, a low pressure area is likely to develop over southeast & adjoining eastcentral AS during next 48 hours. It is likely to move further west-northwestwards and intensify into a depression over central AS around 21<sup>st</sup> October. Hence, low to moderate probability has been assigned to cyclogenesis over Arabian Sea during 20<sup>th</sup>-23<sup>rd</sup> October.**

**Probability of cyclogenesis (formation of depression and above intensity systems) over the BAY OF BENGAL of Bengal and Andaman 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           |

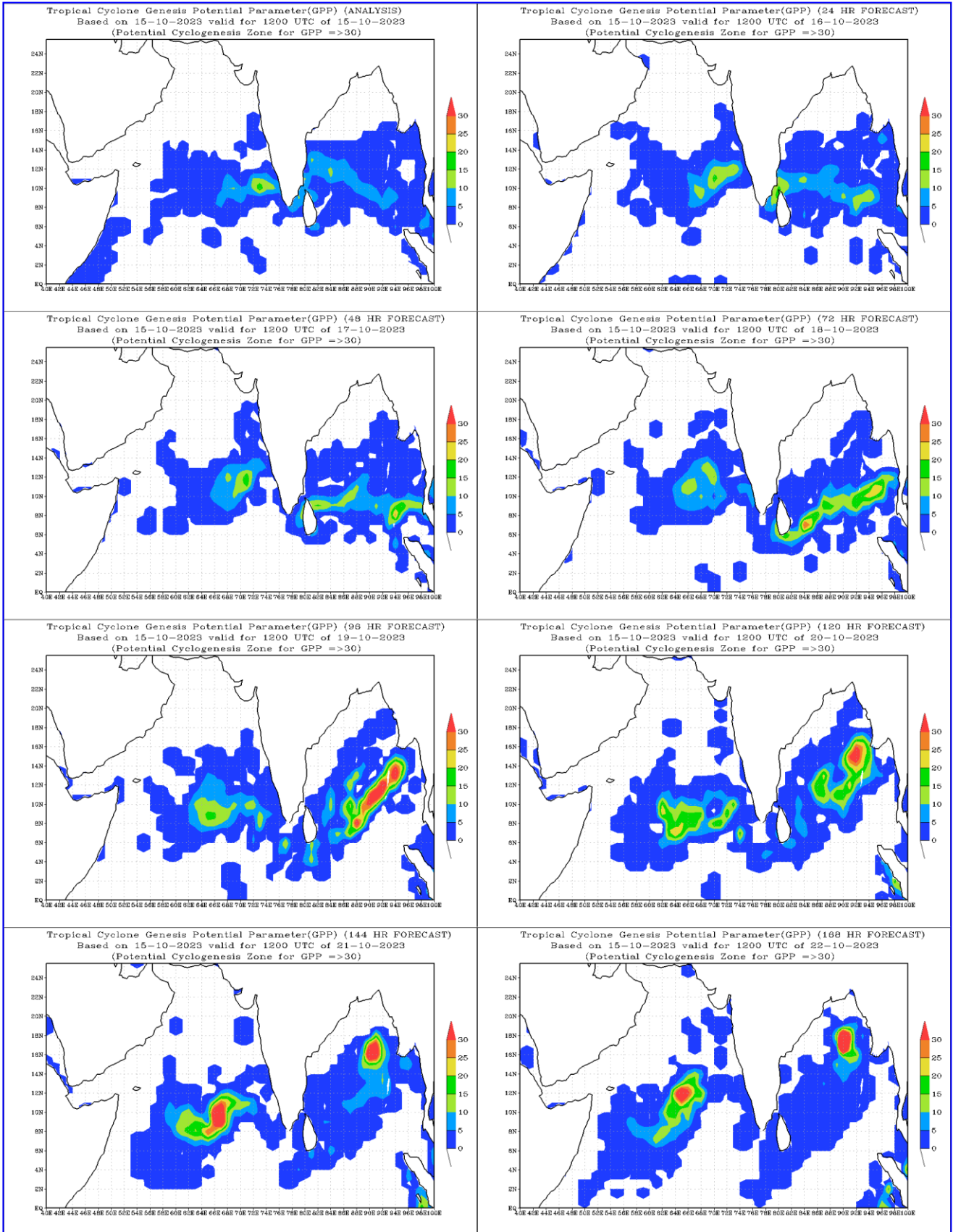
**Probability of cyclogenesis (formation of depression and above intensity systems) over the Arabian Sea during next 168 hours:**

| 24 HOURS | 24-48 HOURS | 48-72 HOURS | 72-96 HOURS | 96-120 HOURS | 120-144 HOURS | 144-168 HOURS |
|----------|-------------|-------------|-------------|--------------|---------------|---------------|
| NIL      | NIL         | NIL         | NIL         | Low          | Moderate      | Moderate      |

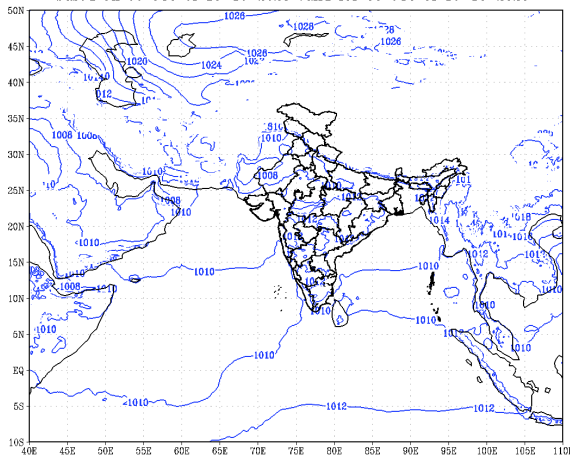
**Advisory:**

- (i) The movement of cyclonic circulation over southeast AS and adjoining Lakshadweep area and formation of a low pressure area over southeast AS.
- (ii) formation of cyclonic circulation over eastcentral Bay of Bengal around 20<sup>th</sup> October needs to be monitored critically.

**Intense Observation Period (IOP) is suggested for Lakshadweep Islands, Kerala, west Sri Lanka on 16<sup>th</sup> and 17<sup>th</sup>.**

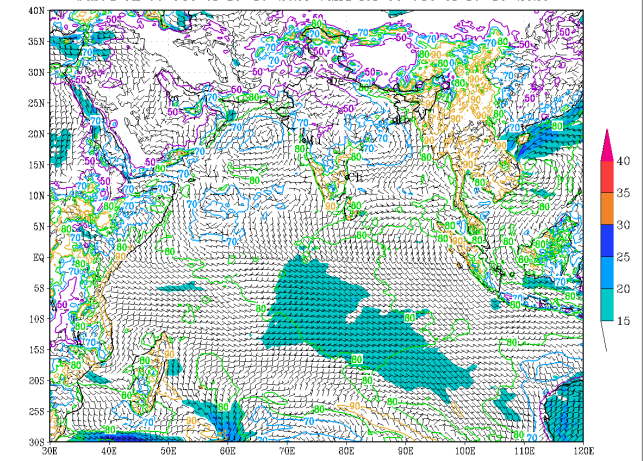


IMD :GFS MODEL(12 Km) MSL Pressure (hPa) FORECAST (00 HR)  
based on 00 UTC of 16-10-2023 valid for 00 UTC of 16-10-2023



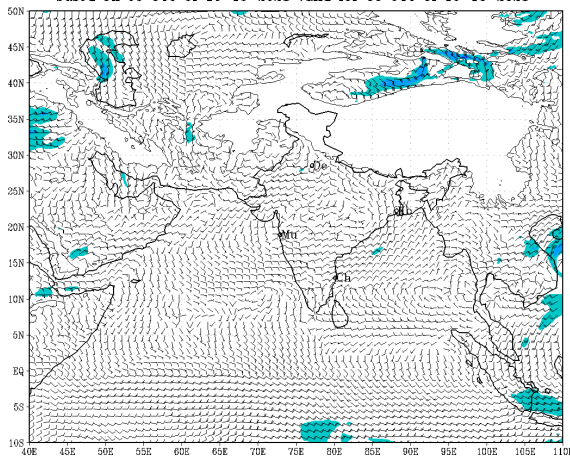
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IMD GFS (T1534) 10m WIND (kt) AND 2m RH (%) FORECAST (00 HR)  
based on 00 UTC of 16-10-2023 valid for 00 UTC of 16-10-2023



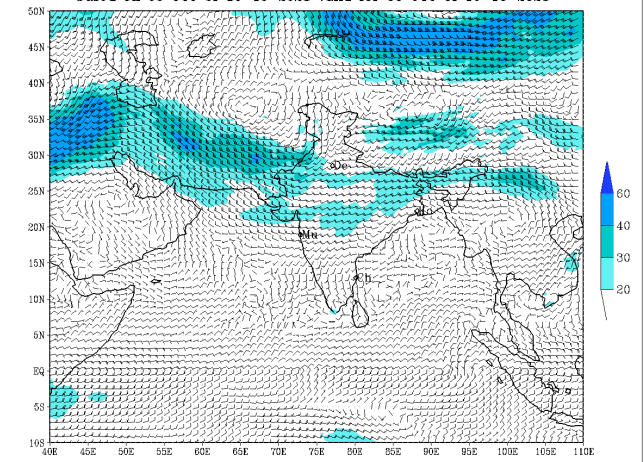
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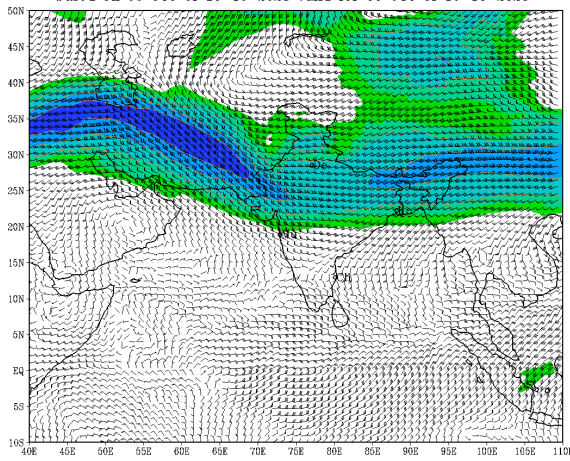
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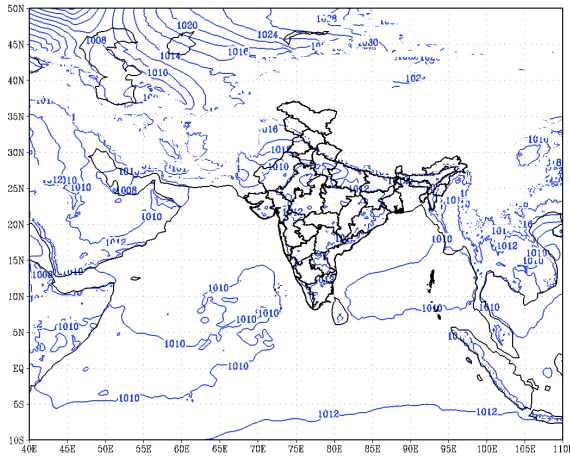
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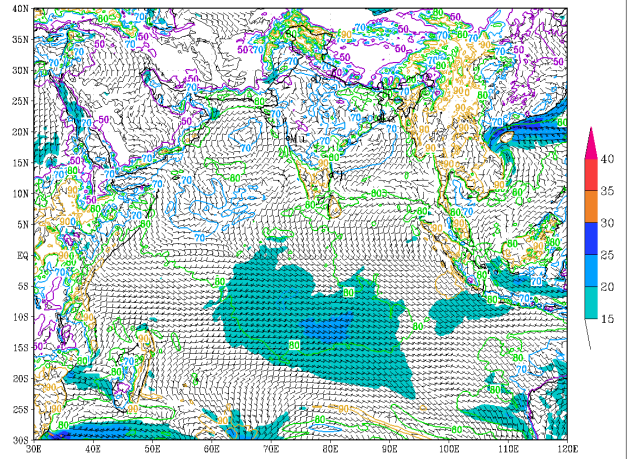
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IMD :GFS MODEL(12 Km) MSL Pressure (hPa) FORECAST (24 HR)  
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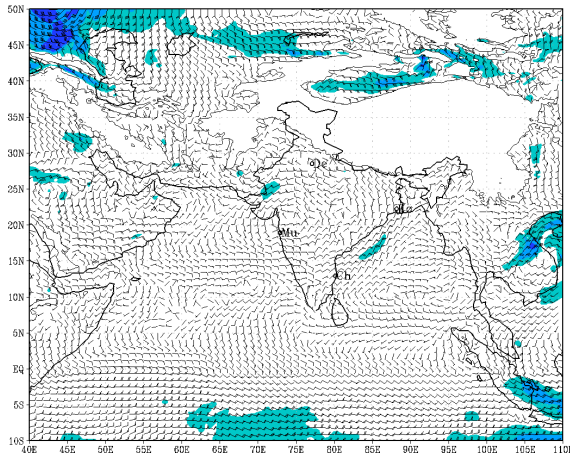
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IMD GFS (T1534) 10m WIND (kt) AND 2m RH (%) FORECAST (24 HR)  
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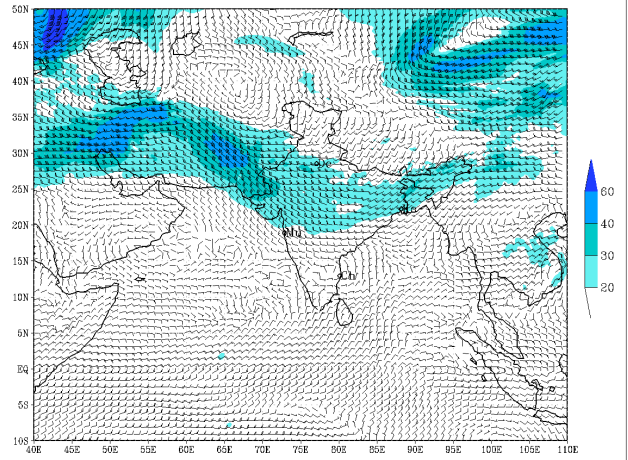
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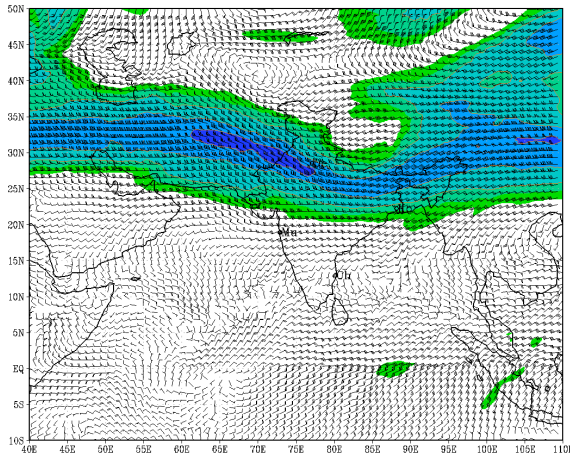
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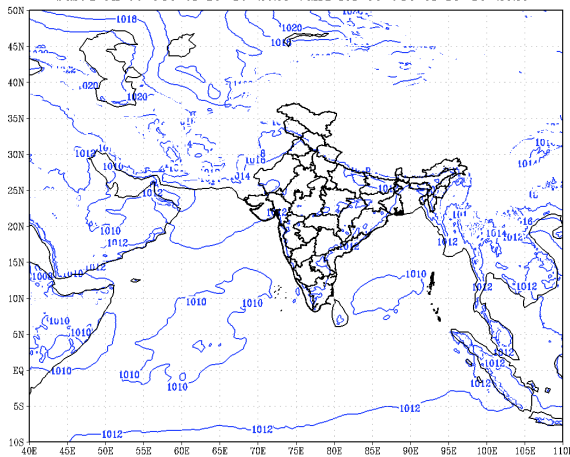
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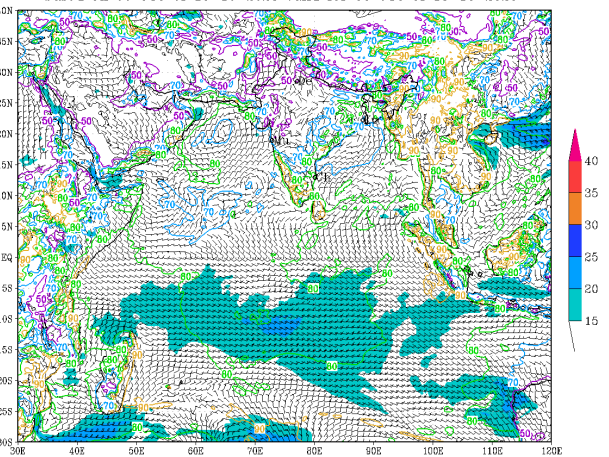


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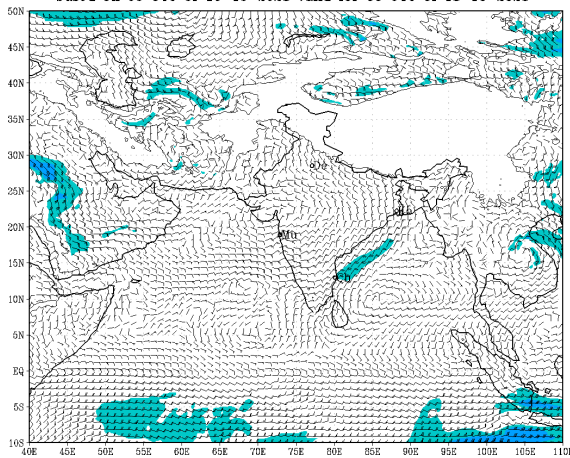
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IMD GFS (T1534) 10m WIND (kt) AND 2m RH (%) FORECAST (48 HR)  
based on 00 UTC of 18-10-2023 valid for 00 UTC of 18-10-2023



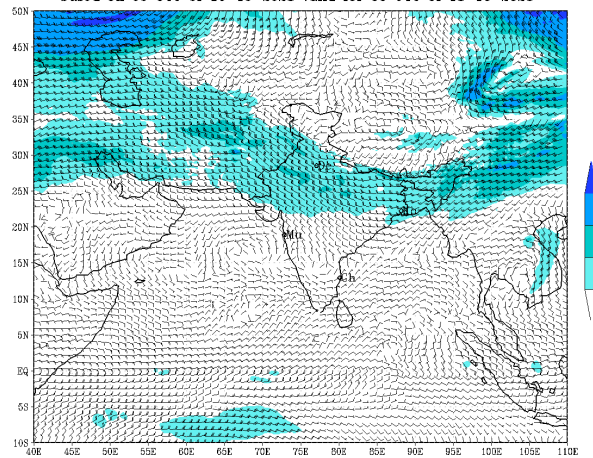
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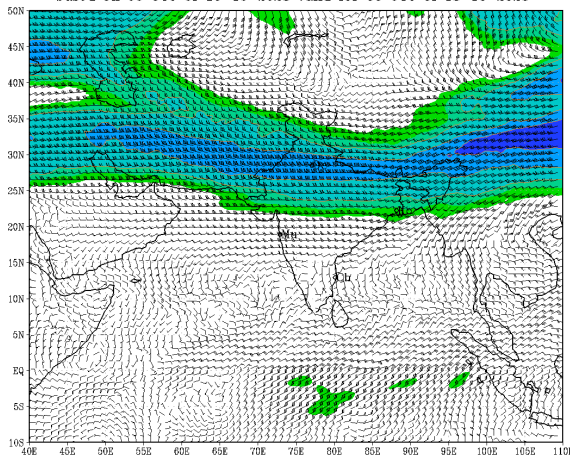
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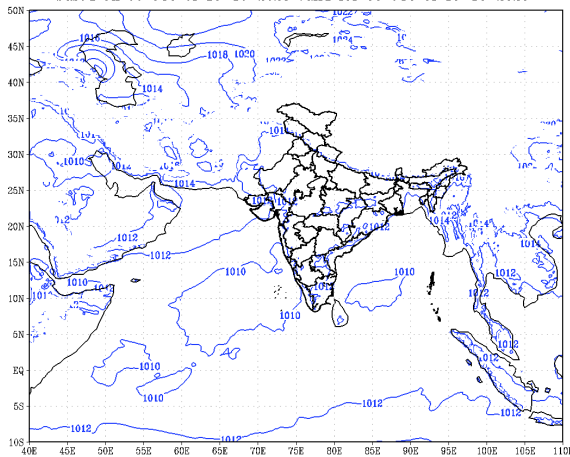
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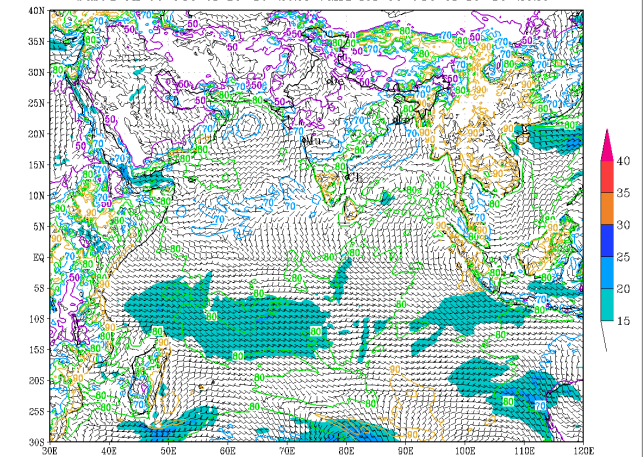
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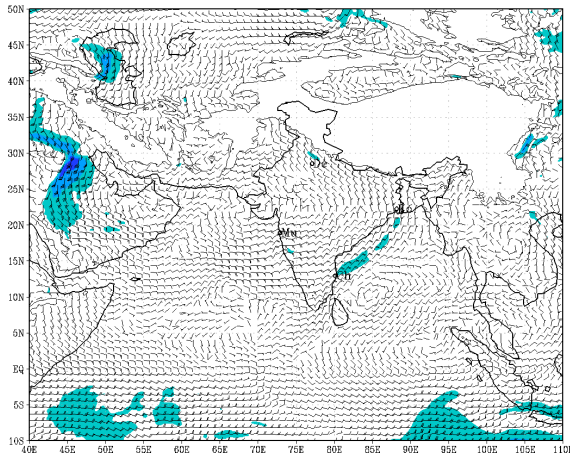
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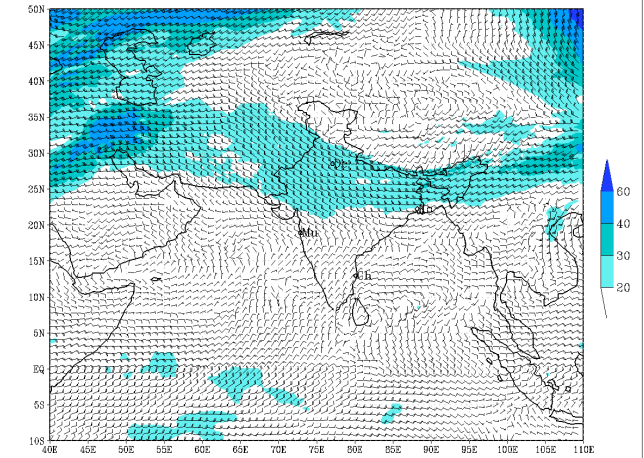
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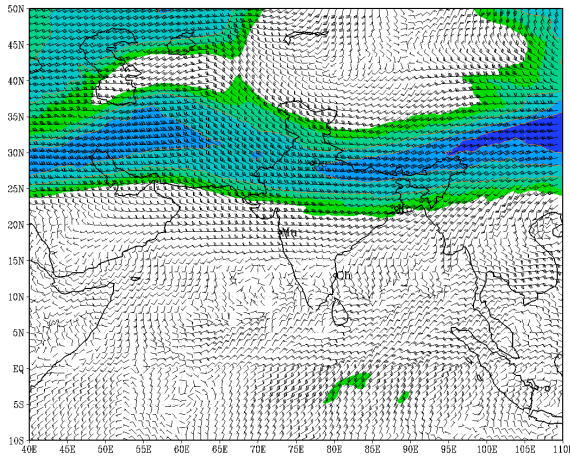
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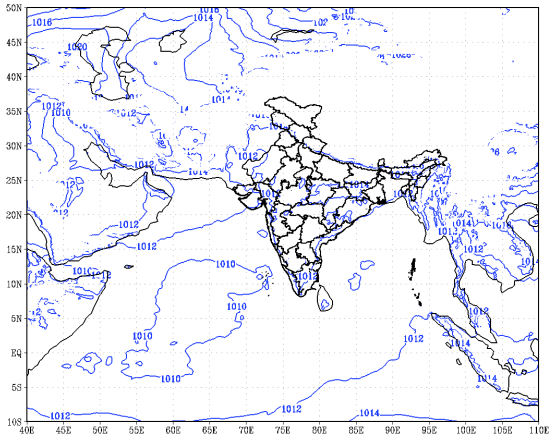
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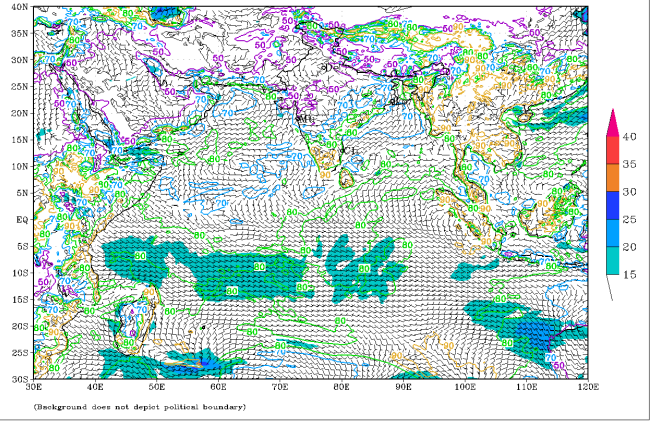


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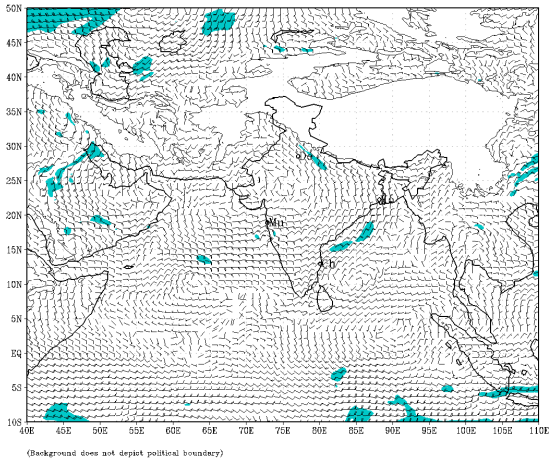
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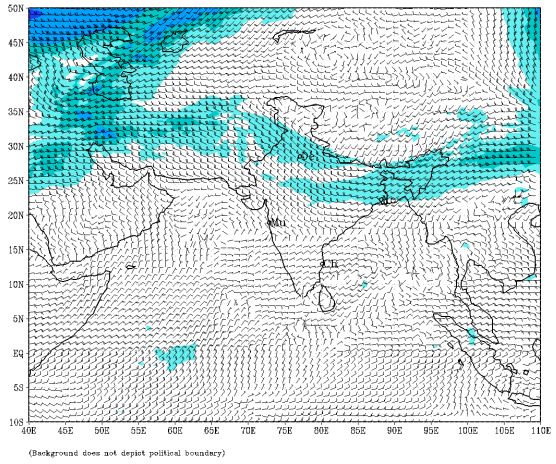
IMD GFS (T1534) 10m WIND (kt) AND 2m RH (%) FORECAST (96 HR)  
based on 00 UTC of 16-10-2023 valid for 00 UTC of 20-10-2023



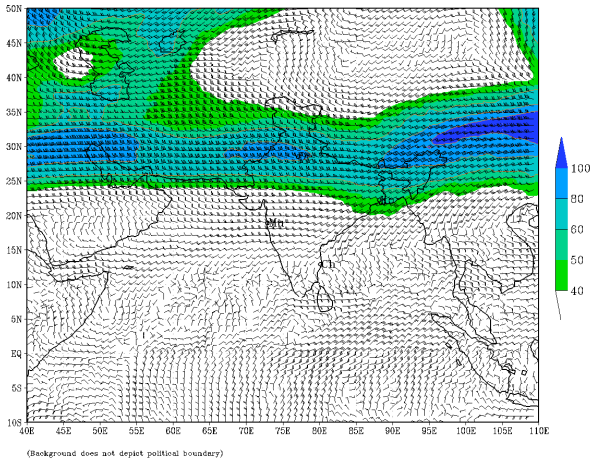
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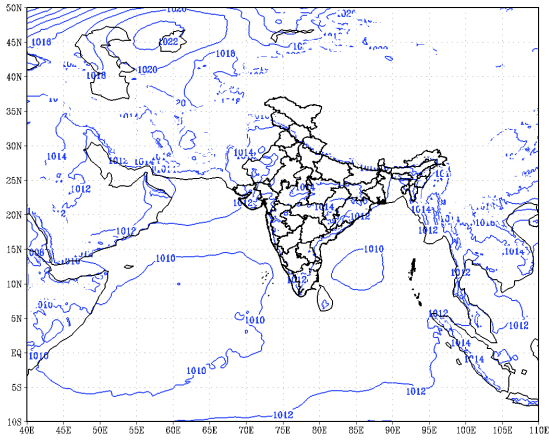
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based on 00 UTC of 16-10-2023 valid for 00 UTC of 20-10-2023



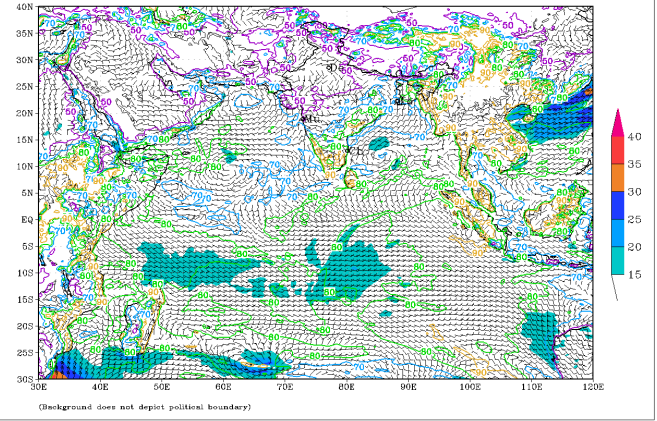
IMD :GFS MODEL(12 Km) 200 hPa WIND (kt) FORECAST (96 HR)  
based on 00 UTC of 16-10-2023 valid for 00 UTC of 20-10-2023



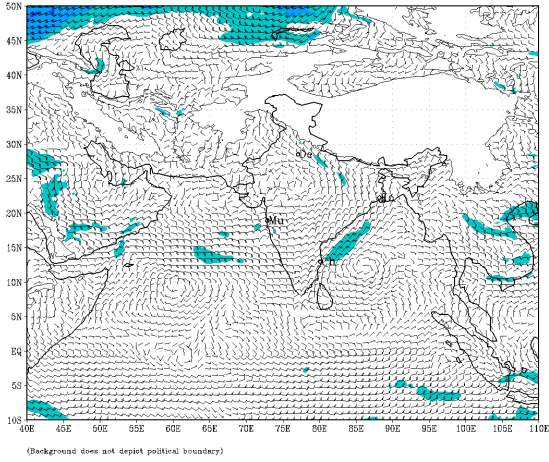
IMD :GFS MODEL(12 Km) MSL Pressure (hPa) FORECAST (120 HR)  
based on 00 UTC of 16-10-2023 valid for 00 UTC of 21-10-2023



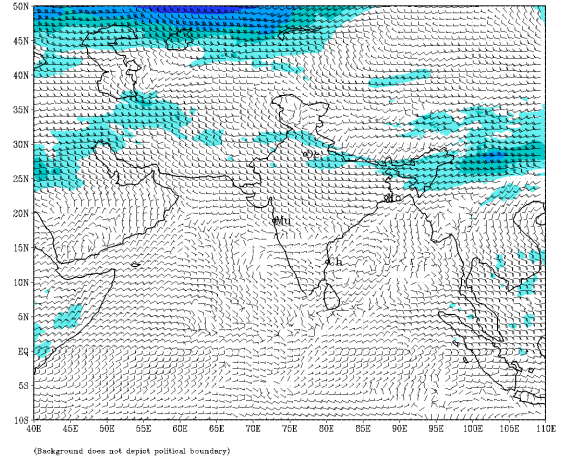
IMD GFS (T1534) 10m WIND (kt) AND 2m RH (%) FORECAST (120 HR)  
based on 00 UTC of 16-10-2023 valid for 00 UTC of 21-10-2023



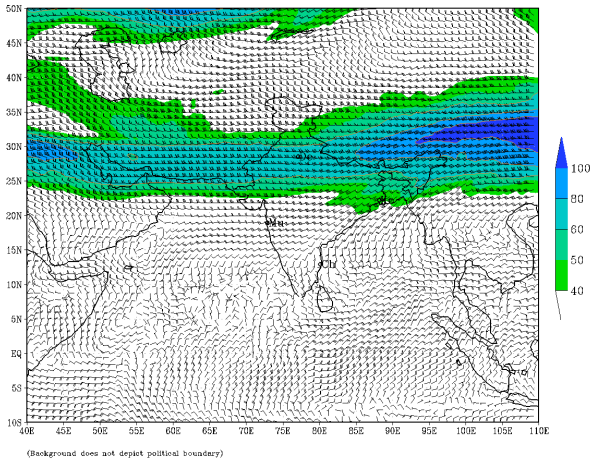
IMD:GFS MODEL(12 Km) 850 hPa WIND (kt) FORECAST (120 HR)  
based on 00 UTC of 16-10-2023 valid for 00 UTC of 21-10-2023



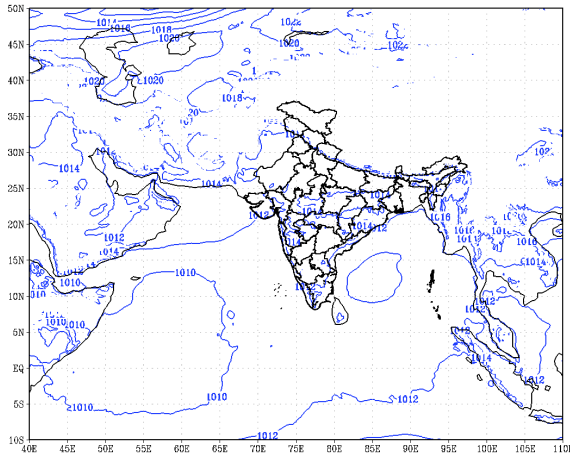
IMD:GFS MODEL(12 Km) 500 hPa WIND (kt) FORECAST (120 HR)  
based on 00 UTC of 16-10-2023 valid for 00 UTC of 21-10-2023



IMD :GFS MODEL(12 Km) 200 hPa WIND (kt) FORECAST (120 HR)  
based on 00 UTC of 16-10-2023 valid for 00 UTC of 21-10-2023

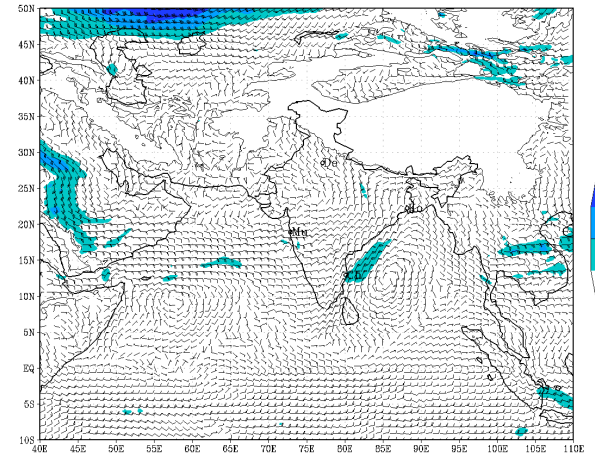


IMD :GFS MODEL(12 Km) MSL Pressure (hPa) FORECAST (144 HR)  
based on 00 UTC of 16-10-2023 valid for 00 UTC of 22-10-2023



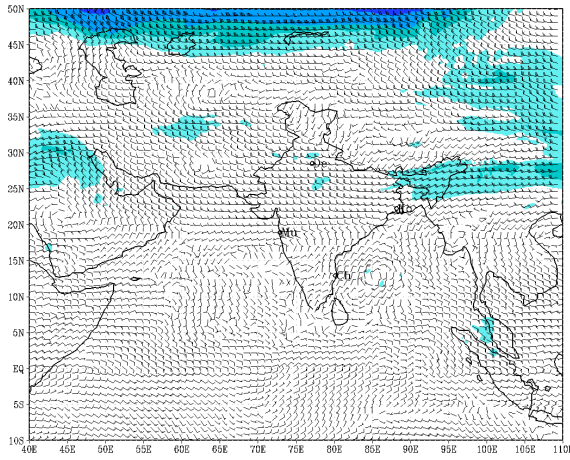
(Background does not depict political boundary)

IMD:GFS MODEL(12 Km) 850 hPa WIND (kt) FORECAST (144 HR)  
based on 00 UTC of 16-10-2023 valid for 00 UTC of 22-10-2023



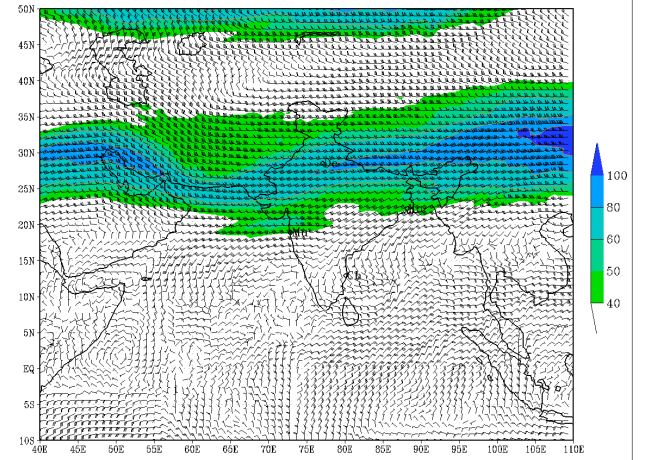
(Background does not depict political boundary)

IMD:GFS MODEL(12 Km) 500 hPa WIND (kt) FORECAST (144 HR)  
based on 00 UTC of 16-10-2023 valid for 00 UTC of 22-10-2023



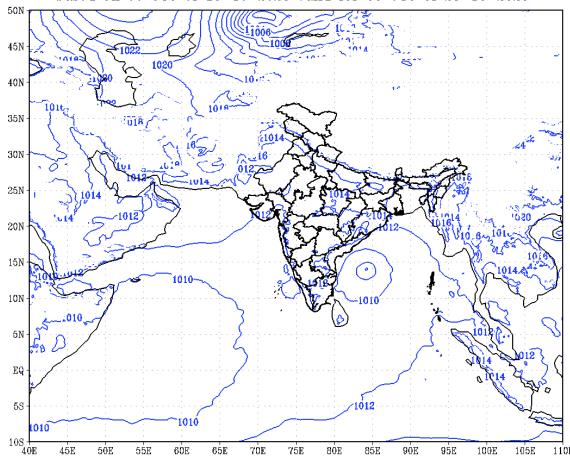
(Background does not depict political boundary)

IMD :GFS MODEL(12 Km) 200 hPa WIND (kt) FORECAST (144 HR)  
based on 00 UTC of 16-10-2023 valid for 00 UTC of 22-10-2023



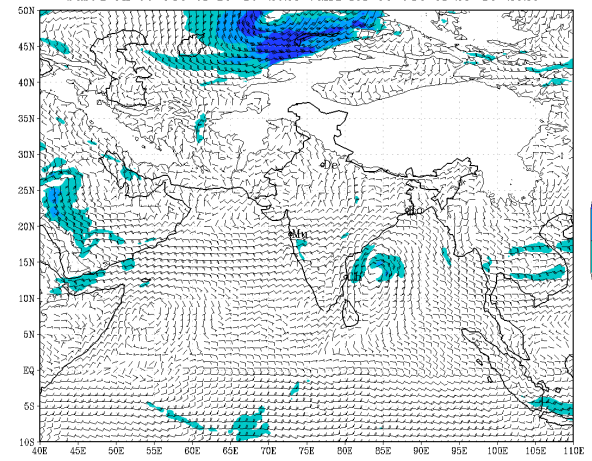
(Background does not depict political boundary)

IMD :GFS MODEL(12 Km) MSL Pressure (hPa) FORECAST (168 HR)  
based on 00 UTC of 16-10-2023 valid for 00 UTC of 23-10-2023



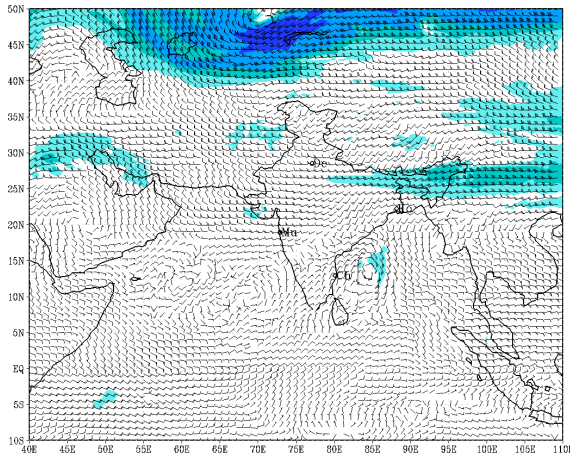
(Background does not depict political boundary)

IMD:GFS MODEL(12 Km) 850 hPa WIND (kt) FORECAST (168 HR)  
based on 00 UTC of 16-10-2023 valid for 00 UTC of 23-10-2023



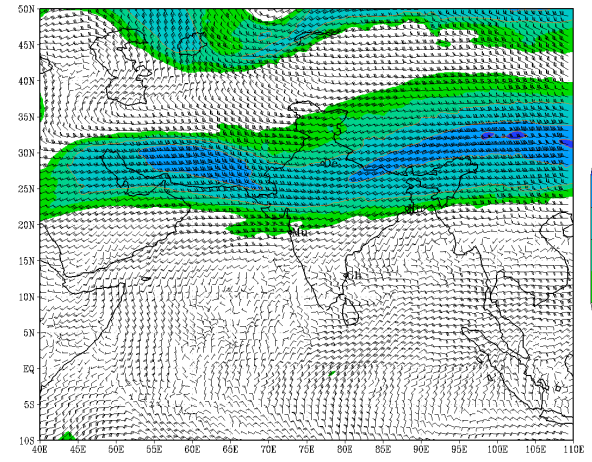
(Background does not depict political boundary)

IMD:GFS MODEL(12 Km) 500 hPa WIND (kt) FORECAST (168 HR)  
based on 00 UTC of 16-10-2023 valid for 00 UTC of 23-10-2023



(Background does not depict political boundary)

IMD :GFS MODEL(12 Km) 200 hPa WIND (kt) FORECAST (168 HR)  
based on 00 UTC of 16-10-2023 valid for 00 UTC of 23-10-2023



(Background does not depict political boundary)