



**Government of India
Ministry of Earth Sciences
India Meteorological Department**

**Press Release
Date: 23rd October, 2022
Time of Issue: 1345 hrs IST**

- Subject: (i) A Deep Depression lies over westcentral & adjoining eastcentral Bay of Bengal near latitude 15.6°N and longitude 88.4°E. It is very likely to move northwestwards during next 12 hrs and intensify into a cyclonic storm over central Bay of Bengal. Thereafter, it will recurve and move north-northeastwards and cross Bangladesh coast between Tinkona Island and Sandwip close to Barisal around 25th October early morning.**
- (ii) The Southwest Monsoon has withdrawn from the remaining parts of the country today, the 23rd October, 2022.**

Weather observed during past 24 hours ending at 0830 hrs IST of today: (Refer Annexure I)

Withdrawal of Southwest Monsoon:

- The Southwest Monsoon has withdrawn from the remaining parts of the country today, the 23rd October, 2022. **(Annexure II).**

Weather systems, rainfall/thunderstorm Forecast & Warnings: (Warning Graphics in Annexure III)

- Yesterday's Depression over southeast adjoining eastcentral Bay of Bengal has intensified into a deep depression today early morning. The **Deep Depression** over eastcentral Bay of Bengal moved northwestwards with a speed of 20 kmph during past 6 hours, and lay centered at 0830 hours IST of today, the 23rd October over the westcentral & adjoining eastcentral Bay of Bengal near latitude 15.6°N and longitude 88.4°E, about 640 km northwest of Port Blair, 670 km south of Sagar Island and 820 km south-southwest of Barisal (Bangladesh). It is very likely to move northwestwards during next 12 hrs and intensify into a **cyclonic storm** over central Bay of Bengal. Thereafter, it would recurve and move north-northeastwards and cross Bangladesh coast between Tinkona Island and Sandwip close to Barisal around 25th October early morning. **(Refer Annexure V).**
- The Western Disturbance as a trough in mid & upper tropospheric westerlies with its axis at 5.8 km above mean sea level roughly along Long. 82.0° E to the north of Lat. 20.0° N persists.

Rainfall warning:

- **Andaman and Nicobar Islands:** Light to moderate rainfall at most places with **heavy rainfall** at isolated places over Andaman & Nicobar Islands on 23rd October.
- **Odisha:** Light to moderate rainfall at many places likely over coastal districts of Odisha on 23rd and light to moderate rainfall with isolated **heavy rainfall** likely over the same region on 24th and isolated **heavy rainfall** over north coastal Odisha districts on 25th October.
- **West Bengal:** Light to moderate rainfall at a few places with isolated heavy rainfall likely over coastal districts (South & North 24 Parganas and East & adjoining East Medinipur) of West Bengal on 23rd. Light to moderate rainfall at most places with isolated **heavy to very heavy rainfall** is likely over coastal districts of West Bengal (South & North Parganas, East & adjoining West Medinipur) on

24th October. Light to moderate rainfall at many with isolated **heavy to very heavy rainfall** is likely over coastal districts (South & North Parganas and Nadia) of West Bengal on 25th October.

➤ **Northeastern States:**

- Light to moderate rainfall at most places with **heavy to very heavy rainfall** at isolated places is likely over north Assam and Arunachal Pradesh; **heavy to Extremely heavy rainfall** is likely over South Assam, East Meghalaya, Nagaland, Mizoram, Manipur & Tripura on 24th October. Light to moderate rainfall at most places with isolated **heavy to very heavy rainfall** is likely over the same region on 25th and isolated **heavy rainfall** is likely over Arunachal Pradesh, northeast Assam and Nagaland on 26th October.

Wind warning:

- **23rd October:** Squally wind speed reaching 50-60 kmph gusting to 70 kmph is prevailing over westcentral and adjoining eastcentral & southeast Bay of Bengal. It would gradually increase becoming gale wind speed reaching 65-75 kmph gusting to 85 kmph over the same region from 23rd evening. Squally wind speed reaching 35-45 kmph gusting to 55 kmph is very likely along & off Odisha and West Bengal coasts and Andaman Islands and adjoining north Andaman Sea.
- **24th October:** Gale wind speed reaching 80-90 kmph gusting to 100 kmph is likely over westcentral and adjoining areas of eastcentral & north Bay of Bengal. It would gradually increase becoming 90-100 kmph gusting to 110 kmph over the same region from 24th evening till 25th morning. Squally wind speed reaching 40-50 kmph gusting to 60 kmph is very likely along & off Odisha and West Bengal coasts. It would gradually increase becoming 60-80 kmph gusting to 90 kmph along and off West Bengal coast and 50-60 kmph gusting to 70 kmph along and off north Odisha coast from evening.
- **25th October:** Gale wind speed reaching 90-100 kmph gusting to 110 kmph is likely over north Bay of Bengal and along & off Bangladesh coast; 70-90 kmph gusting to 100 kmph likely along & off 24 Parganas District and 60-70 kmph gusting to 80 kmph along & off east Medinipur district off West Bengal coast till morning. It would gradually decrease becoming 45-55 kmph gusting to 65 kmph over coastal areas of Bangladesh after evening. Squally wind speed reaching 45-55 kmph gusting to 65 kmph likely along and off Balasore district & 40-50 kmph gusting to 60 kmph along & off remaining north coastal districts of Odisha and over Mizoram & Tripura.

Sea condition:

- **23rd October:** Very rough over central & adjoining southeast Bay of Bengal from morning. It would become **high** from evening over central Bay of Bengal roughly along & off Odisha-West Bengal-Bangladesh coasts.
- **24th October:** **High** over westcentral and adjoining eastcentral & north Bay of Bengal; **Rough to very rough** along & off Odisha-West Bengal-Bangladesh coasts and would become **very rough to high** from 24th evening along and off West Bengal-Bangladesh coasts.
- **25th October:** **High to very high** over north Bay of Bengal along & off Bangladesh-West Bengal coasts.

Fishermen Warning: (Fishermen graphics in Annexure IV)

- Fishermen are advised not to venture into central Bay of Bengal on 23rd and 24th, north & adjoining central Bay of Bengal on 24th and 25th October, 2022.

- Fishermen are advised not to venture into Sea along and off Odisha, West Bengal & Bangladesh coasts during 23rd to 25th October. Fishermen out at sea are advised to return to the coast.

Advisory for On-shore and Off-shore Installations:

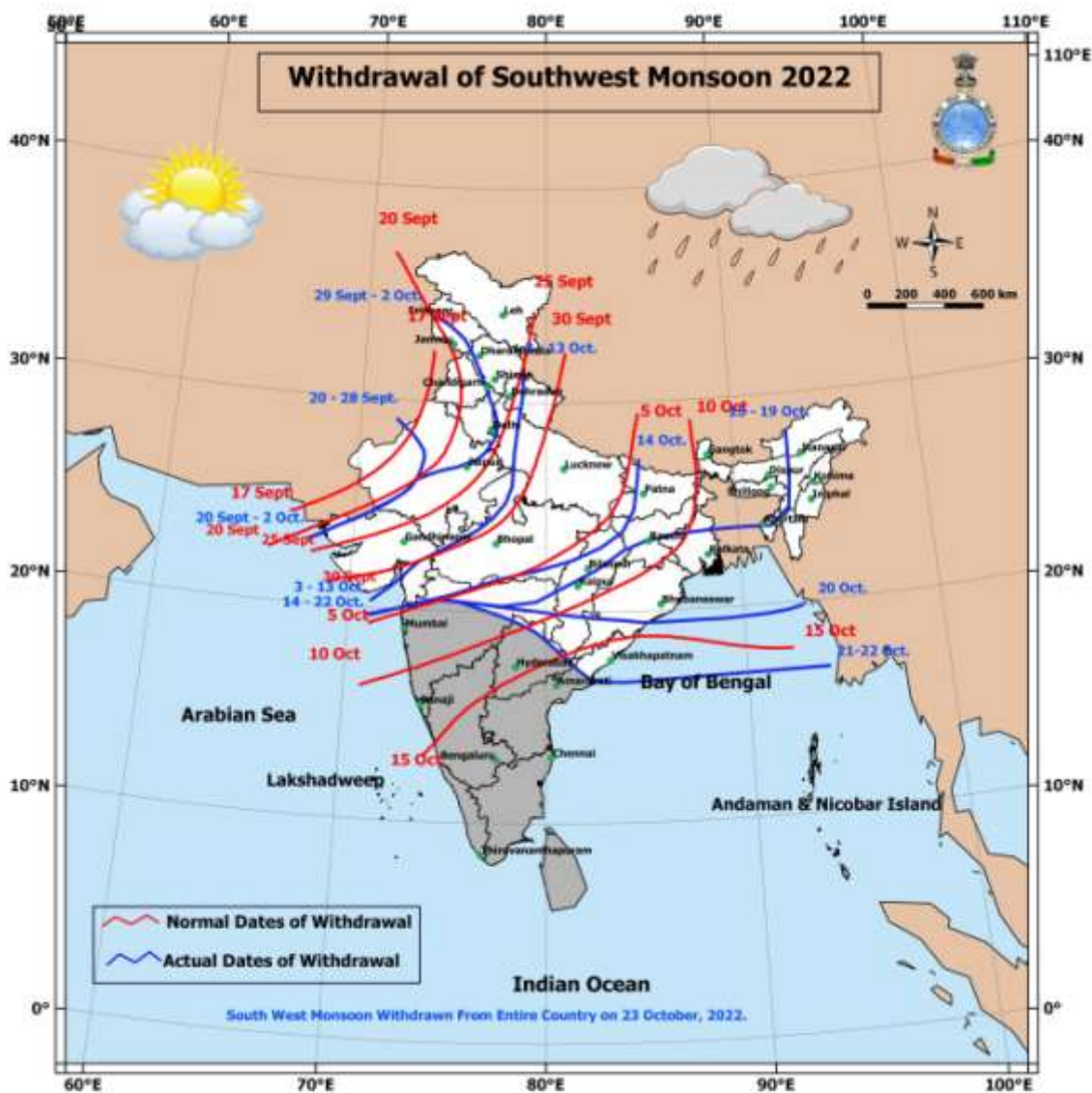
- Regulation of offshore activities from 23rd over central and North Bay of Bengal till 25th and over Andaman Sea till 23rd. Suspension of off-shore activities during 24th to 25th October along and off Odisha and West Bengal coasts.

For more details kindly refer: https://mausam.imd.gov.in/imd_latest/contents/all_india_forcast_bulletin.php
& https://rsmcnewdelhi.imd.gov.in/uploads/archive/1/1_c2fa58_6.National%20Bulletin_20221023_0300.pdf

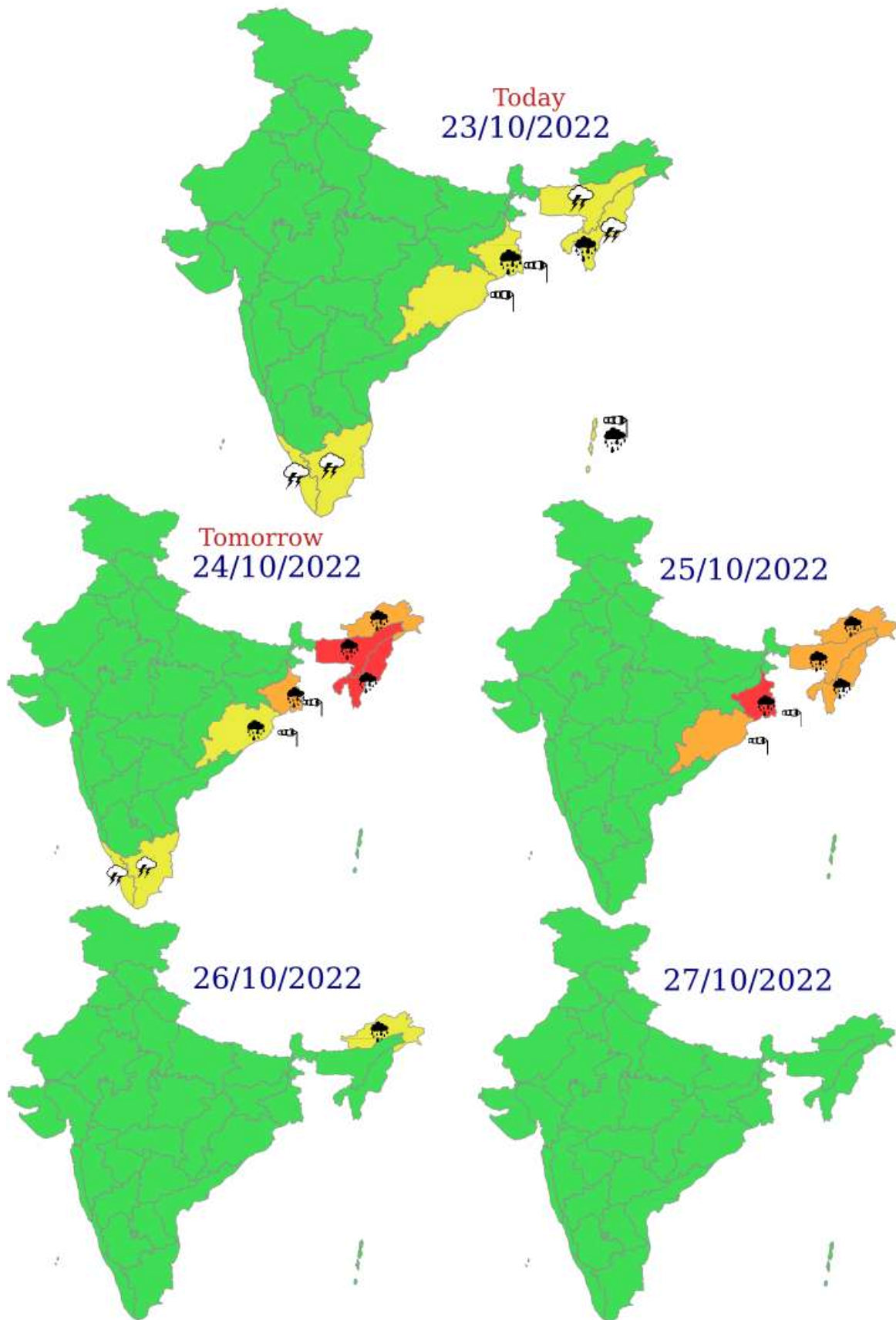
Isolated heavy rainfall occurred at isolated places over Kerala.

Rainfall (in cm):

- ❖ **Kerala:** Anakayam Kurudamannil (Pathanamthitta district) 9.
- ❖ **Andaman & Nicobar Islands:** Hut Bay 3;
- ❖ **Tamilnadu, Puducherry and Karaikal:** Manimutharu (dist Tirunelveli) 5, Ambasamudram (dist Tirunelveli) 4,



Annexure III



Annexure IV

Fishermen warning graphics



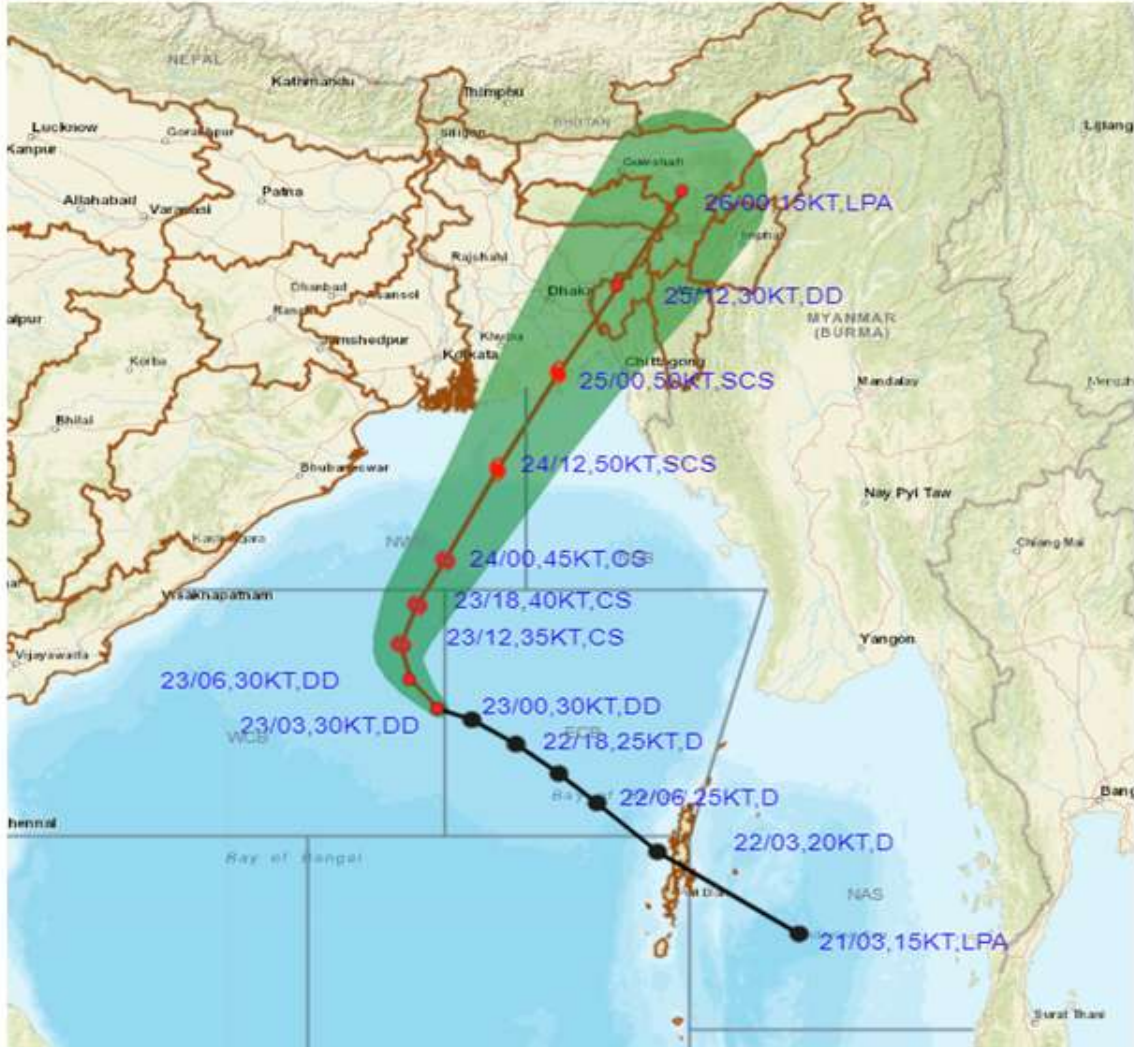
| | |
|--|--|
| | Squally WX with wind speed 40-45 kmph gusting to 55 kmph |
| | Squally WX with wind speed 45-55 kmph gusting to 65 kmph |
| | Squally wind speed with wind speed 45-55 kmph gusting to 65 kmph |
| | Squally wind speed with wind speed 55-65 kmph gusting to 75 kmph |
| | Gale wind speed with wind speed 65-75 kmph gusting to 85 kmph |
| | Gale wind speed with wind speed 80-90 kmph gusting to 100 kmph |
| | Gale wind speed with wind speed 90-100 kmph gusting to 110 kmph |

Fishermen are advised not to venture into the marked areas.

Annexure V



OBSERVED AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINTY OF DEEP DEPRESSION OVER WESTCENTRAL ADJOINING EASTCENTRAL BAY OF BENGAL BASED ON 0300 UTC OF 23rd OCTOBER, 2022

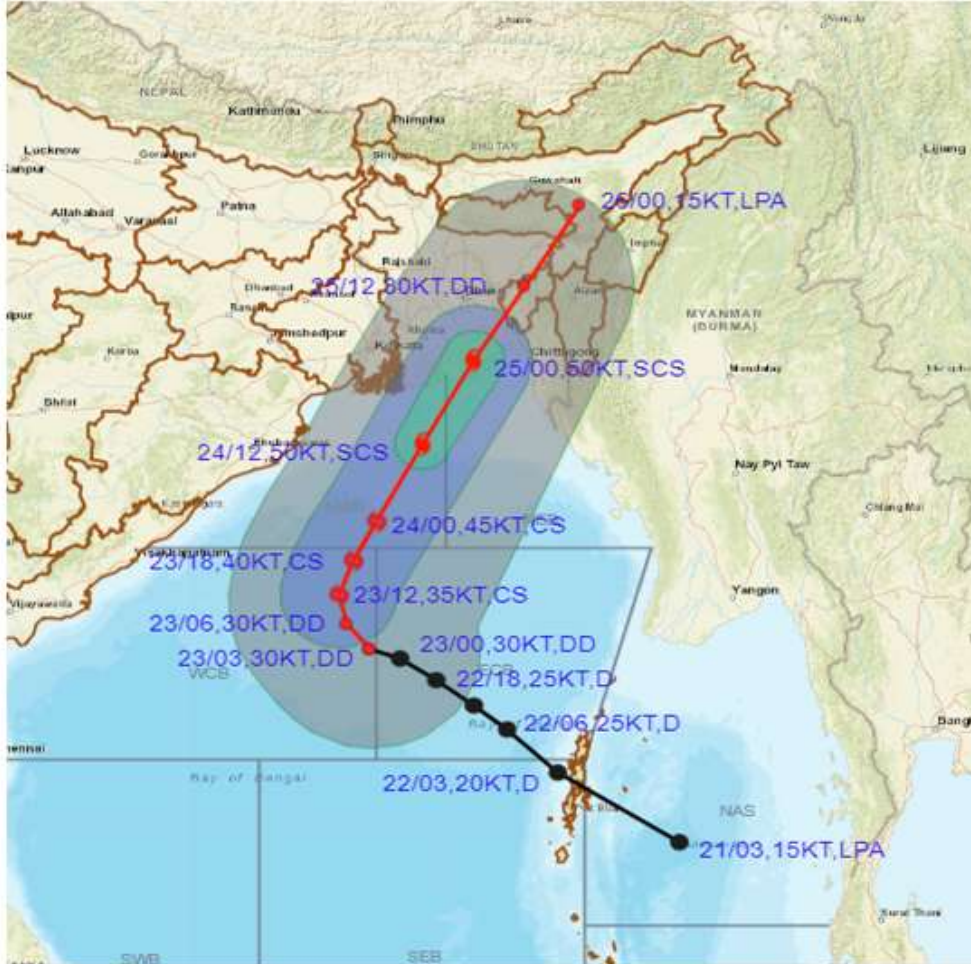


DATE/TIME IN UTC
IST=UTC + 0530
L: LOW PRESSURE AREA
WML: WELL MARKED LOW PRESSURE AREA
D: DEPRESSION (17-27 KT)
DD: DEEP DEPRESSION (28-33 KT)
CS: CYCLONIC STORM (34-47 KT)
SCS: SEVERE CYCLONIC STORM (48-63KT)
VSCS: VERY SEVERE CYCLONIC STORM (64-89 KT)
ESCS: EXTREMELY SEVERE CYCLONIC STORM (90-119 KT)
SuCS: SUPER CYCLONIC STORM (≥ 120 KT)

- LESS THAN 34 KT
- 34-47 KT
- ≥ 48 KT
- OBSERVED TRACK
- FORECAST TRACK
- CONE OF UNCERTAINTY



OBSERVED AND FORECAST TRACK ALONGWITH QUADRANT WIND DISTRIBUTION OF DEEP DEPRESSION OVER WESTCENTRAL ADJOINING EASTCENTRAL BAY OF BENGAL BASED ON 0300 UTC OF 23rd OCTOBER, 2022



DATE/TIME IN UTC

IST=UTC + 0530

L: LOW PRESSURE AREA

WML: WELL MARKED LOW PRESSURE AREA

D: DEPRESSION (17-27 KT)

DD: DEEP DEPRESSION (28-33 KT)

CS: CYCLONIC STORM (34-47 KT)

SCS: SEVERE CYCLONIC STORM (48-63KT)

VSCS: VERY SEVERE CYCLONIC STORM (64-89 KT)

ESCS: EXTREMELY SEVERE CYCLONIC STORM (90-119 KT)

SuCS: SUPER CYCLONIC STORM (≥ 120 KT)

● LESS THAN 34 KT

○ 34-47 KT

● ≥ 48 KT

— OBSERVED TRACK

— FORECAST TRACK

— CONE OF UNCERTAINTY

AREA OF MAXIMUM SUSTAINED WIND SPEED:

— 28-33 KT (52-61 KMPH)

— 34-49 KT (62-91 KMPH)

— 50-63 KT (92-117 KMPH)

— ≥ 64 KT (≥118 KMPH)

IMPACT OVER THE SEA

| MSW (knot/kmph) | Impact | Action |
|-----------------|------------------------|--|
| 28-33 (52-61) | Very rough seas | Total suspension of fishing operations |
| 34-49 (62-91) | High to very high seas | Total suspension of fishing operations |
| 50-63 (92-117) | Very high seas | Total suspension of fishing operations |
| ≥ 64 (≥118) | Phenomenal | Total suspension of fishing operations |

IMPACT EXPECTED & ACTION SUGGESTED DUE TO-

(i) Isolated very heavy rainfall over Coastal districts of West Bengal and Isolated very heavy/ extremely heavy rainfall over Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura on 24th & 25th.

A. Impact Expected

- Localized Flooding of roads, water logging in low lying areas and closure of underpasses mainly in urban areas of the above region.
- Occasional reduction in visibility due to heavy rainfall.
- Disruption of traffic in major cities due to water logging in roads leading to increased travel time.
- Minor damage to kutcha roads.
- Possibilities of damage to vulnerable structure.
- Localized Landslides/Mudslides
- Damage to horticulture and standing crops in some areas due to inundation.
- It may lead to riverine flooding in some river catchments (for riverine flooding please visit Web page of CWC)

B. Action Suggested

- Check for traffic congestion on your route before leaving for your destination.
- Follow any traffic advisories that are issued in this regard.
- Avoid going to areas that face the water logging problems often.
- Avoid staying in vulnerable structure.

Legends:

Heavy Rain: 64.5 to 115.5 mm; **Very Heavy Rain:** 115.6 to 204.4 mm; **Extremely Heavy Rain:** >204.4 mm.

Region wise classification of meteorological Sub-Divisions:

- 1) **Northwest India:** Western Himalayan Region (Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh and Uttarakhand); Punjab, Haryana-Chandigarh-Delhi; West Uttar Pradesh, East Uttar Pradesh, West Rajasthan and East Rajasthan.
- 2) **Central India:** West Madhya Pradesh, East Madhya Pradesh, Vidarbha and Chhattisgarh.
- 3) **East India:** Bihar, Jharkhand, Sub-Himalayan West Bengal & Sikkim; Gangetic West Bengal, Odisha and Andaman & Nicobar Islands.
- 4) **Northeast India:** Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.
- 5) **West India:** Gujarat Region, Saurashtra & Kutch, Konkan & Goa, Madhya Maharashtra and Marathwada.
- 6) **South India:** Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Coastal Karnataka, North Interior Karnataka, South Interior Karnataka, Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal and Lakshadweep.

| SPATIAL DISTRIBUTION (% of Stations reporting) | | | |
|---|--------------------------------------|------------|-------------------------------|
| % Stations | Category | % Stations | Category |
| 76-100 | Widespread (WS/Most Places) | 26-50 | Scattered (SCT/ A Few Places) |
| 51-75 | Fairly Widespread (FWS/ Many Places) | 1-25 | Isolated (ISOL) |



WARNING

| |
|------------------------|
| WARNING (TAKE ACTION) |
| ALERT (BE PREPARED) |
| WATCH (BE UPDATED) |
| NO WARNING / NO ACTION |

| Probabilistic Forecast | |
|-------------------------------|-------------------------------|
| Terms | Probability of Occurrence (%) |
| Unlikely | < 25 |
| Likely | 25 - 50 |
| Very Likely | 50 - 75 |
| Most Likely | > 75 |

