



Government of India
Ministry of Earth Sciences
India Meteorological Department

Press Release
Date: 20th March, 2022
Time of Issue: 1245 hrs IST

Subject:

- i) Depression over southeast Bay of Bengal and adjoining south Andaman Sea: Pre cyclone watch for Andaman Islands and adjoining sea areas.**
- ii) No significant Heat Wave conditions likely over any part of the country.**

Weather observed during past 24 hours:

- ✓ **Maximum Temperatures** (as on 19/03/2022) recorded **40°C and above** over some parts of West Rajasthan and Vidarbha; in isolated places over West Madhya Pradesh, Chhattisgarh, interior Odisha, north Madhya Maharashtra and Jharkhand.
- ✓ The maximum temperatures were **above normal by 4.5°C** over most parts over Himachal Pradesh, Haryana-Chandigarh & Delhi, Punjab and Rajasthan; at many places over Bihar, Jharkhand, Uttarakhand; at a few places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Uttar Pradesh, Arunachal Pradesh, Assam-Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat state and Madhya Maharashtra; at isolated places over West Madhya Pradesh, Vidarbha and Sub-Himalayan West Bengal & Sikkim..
- ✓ Yesterday, **Heat Wave conditions** in many parts with **Severe Heat Wave conditions** in some pockets observed over Himachal Pradesh and West Rajasthan; **Heat Wave to Severe Heat Wave conditions** in isolated pockets over Jammu division and **Heat wave conditions** in isolated pockets over West Madhya Pradesh.
- ✓ **Moderate rainfall observed** at isolated places over Andaman-Nicobar Islands. Significant rainfall amounts (in cm): **Andaman-Nicobar Islands-** South Andaman: Hut Bay-4, Car Nicobar, Port Blair-3 each, Nancowry-2.

Depression over southeast Bay of Bengal and adjoining south Andaman Sea: Pre cyclone watch for Andaman Islands and adjoining sea areas:

Yesterday's Well **Marked Low Pressure Area** concentrated into a **Depression over southeast Bay of Bengal and adjoining south Andaman Sea** at 0530hrs IST of today, the 20th March moved nearly northwards at a speed of 12 kmph and lay centered at 0830 hours IST of today, the 20th March, over the same region, near latitude 10.1°N and longitude 92.6°E, about 110 km north-northwest of Car Nicobar (Nicobar Islands), 170 km south of Port Blair (Andaman Islands) and 840 km south-southwest of Yangon (Myanmar). It is likely to move nearly northwards along & off Andaman & Nicobar Islands, intensify into a deep depression during next 24 hours and into a cyclonic storm during subsequent 12 hours

Warnings:

(i) Rainfall (warning graphics enclosed):

- **20th March:** Light to moderate rainfall/thundershower at most places with **heavy to very heavy rainfall at a few places and isolated extremely heavy rainfall** are very likely over Andaman and Nicobar Islands.
- **21st March:** Light to moderate rainfall/thundershower at most places with **heavy to very heavy rainfall at a few places and isolated extremely heavy rainfall** are very likely over north Andaman Islands. Light to moderate rainfall at a few places is likely over Nicobar Islands.

(ii) Wind warning:

- **20th March:** Squally winds speed reaching 40-50 kmph gusting to 60 kmph are very likely to prevail over Andaman and Nicobar Islands, Andaman Sea and adjoining southeast Bay of Bengal which would gradually increase to 45-55 kmph gusting to 65 kmph from afternoon of 20th March.
- **21st March:** Squally winds speed reaching 55-65 kmph gusting to 75 kmph are very likely to prevail over Andaman and Nicobar Islands, eastcentral Bay of Bengal and adjoining southeast Bay of Bengal from 21st early morning. It would gradually increase becoming Gale winds speed reaching 65-75 kmph gusting to 85 kmph over the region from evening of 21st March.
- **22nd March:** Gale winds speed reaching 60-70 kmph gusting to 80 kmph very likely to prevail over eastcentral Bay of Bengal and along & off Myanmar coast and gradually reduce and becoming squally winds speed reaching 55-65 kmph gusting to 75 kmph over the same region from 22nd evening. Squally wind speed reaching 40-50 kmph gusting to 60 kmph is likely to prevail over north Andaman Islands, north Andaman Sea and adjoining southeast Bay of Bengal, northeast Bay of Bengal and along & off southeast Bangladesh coast.

(iii) Sea condition:

- Sea condition very likely to be rough to very rough over Andaman Sea and adjoining southeast Bay of Bengal on 20th March.
- Sea condition is very likely to become very rough to high over Andaman Sea, southeast and adjoining eastcentral Bay of Bengal on 21st, over eastcentral and adjoining southeast & northeast Bay of Bengal and north Andaman Sea and along & off Myanmar coast on 22nd March. It would be rough to very rough over northeast Bay of Bengal and along & off southeast Bangladesh coast during the same period.

(iv) Fishermen Warning (Graphics enclosed):

Fishermen are advised not to venture

- Into southeast Bay of Bengal during 20th – 21st March.
- Into Andaman Sea and along & off Andaman and Nicobar Islands during 20th-22nd March.
- Into eastcentral Bay of Bengal during 21st -22nd March and into northeast Bay of Bengal on 22nd March.

Forecast & Warnings for other parts of the country:

- ✓ Under the influence of the Western Disturbance, isolated rainfall/snowfall with isolated thunderstorm/lightning very likely over Western Himalayan Region on 20th March, 2022.
- ✓ Strong surface winds (speed 25-35 kmph) likely over West Rajasthan during next 24 hours.
- ✓ Light isolated/scattered rainfall with thunderstorm/lightning very likely over Kerala & Mahe, Tamilnadu, Puducherry & Karaikal, Rayalaseema, Coastal Andhra Pradesh and Karnataka during next 5 days.
- ✓ Light to moderate isolated/scattered rainfall with thunderstorm/lightning very likely over Northeast India during next 5 days.

Maximum Temperature Forecast:

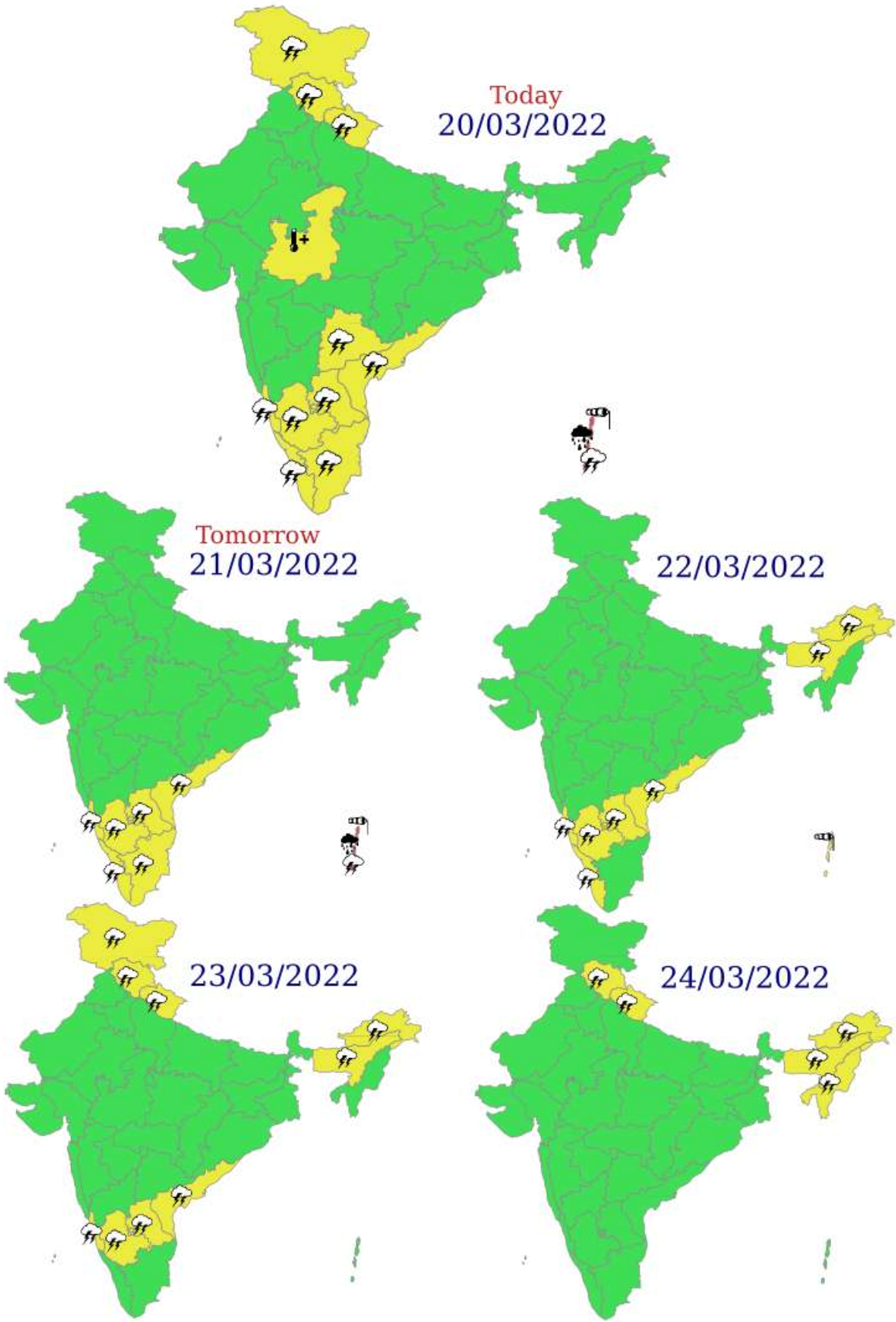
- ✓ Fall in maximum temperatures by 2-3⁰C over most parts of northwest India during next 2 days and no significant change thereafter.
- ✓ No significant change in maximum temperatures very likely over rest parts of the country during next 4-5 days.

Heat Wave warning (Graphics enclosed):

- ✓ **Heat Wave conditions** very likely to prevail in isolated pockets over West Madhya Pradesh on 20th March and abate thereafter.
- ✓ **No significant heat wave conditions very likely** over rest parts of the country during next 4-5 days.

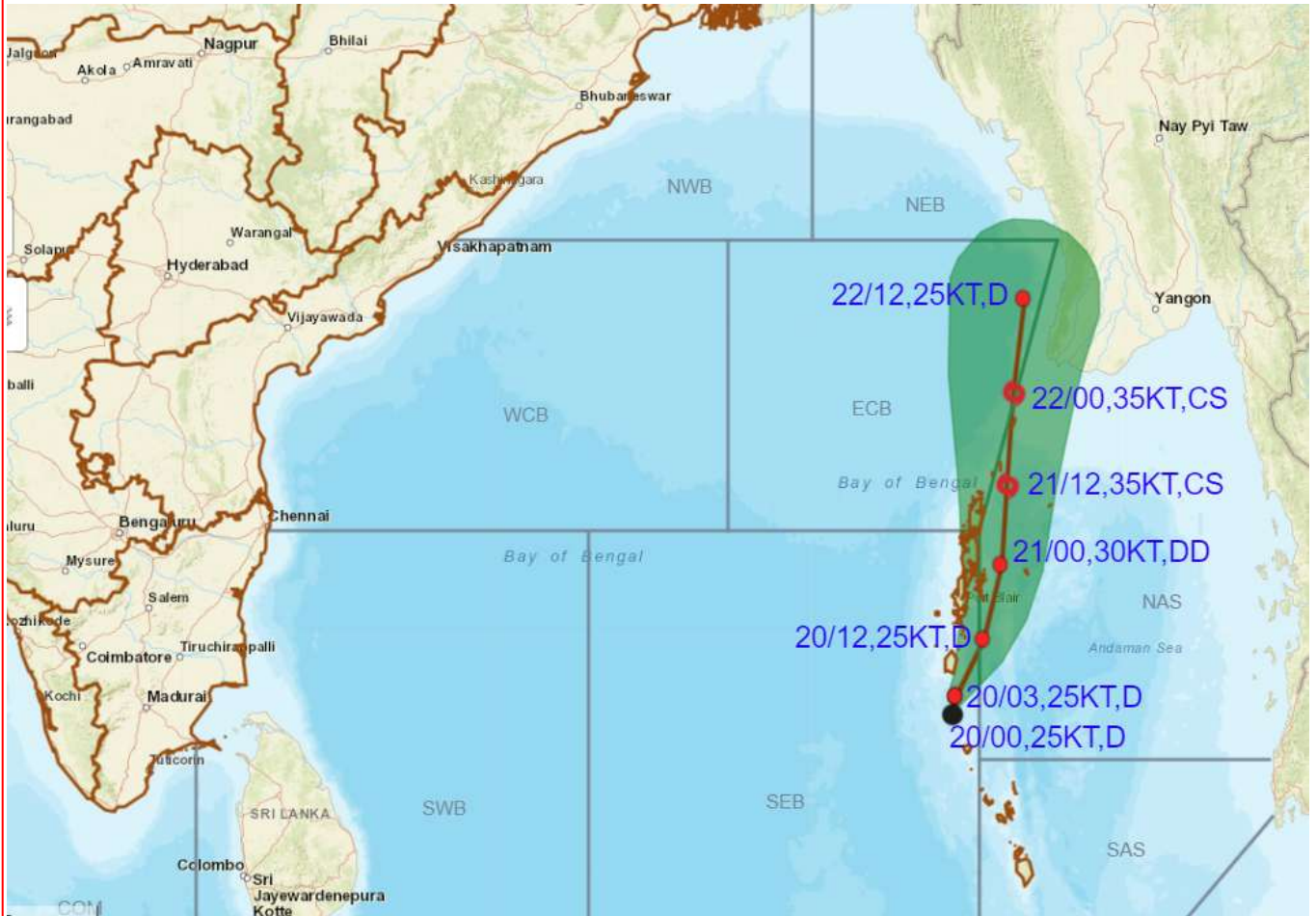
For more details refer:

https://mausam.imd.gov.in/imd_latest/contents/subdivisionwise-warning.php





OBSERVED AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINTY OF DEPRESSION OVER SOUTHEAST BAY OF BENGAL AND ADJOINING SOUTH ANDAMAN SEA ON 0300 UTC OF 20TH MARCH 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 (\geq 120 KT)

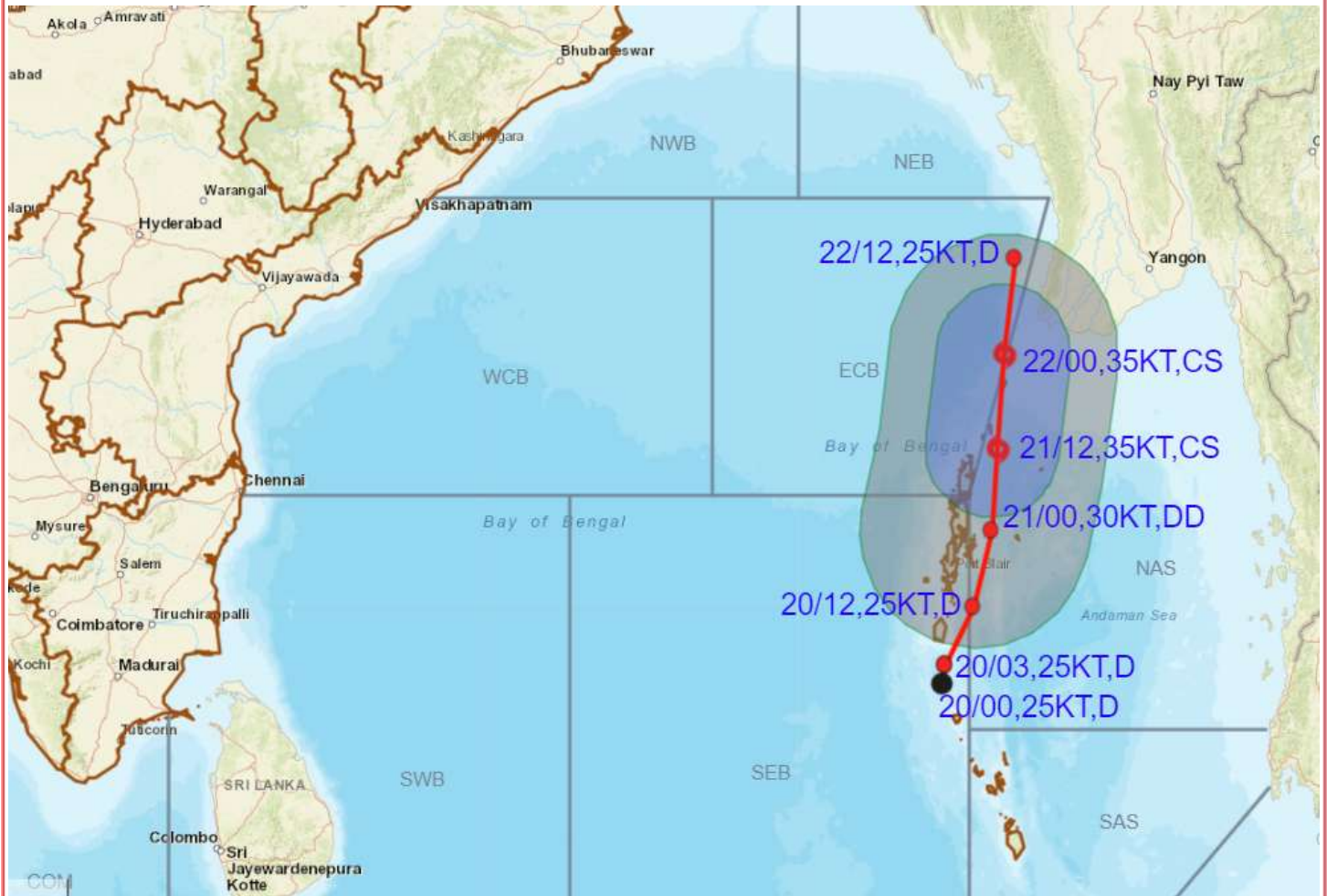
- LESS THAN 34 KT
- 34-47 KT
- \geq 48 KT
- OBSERVED TRACK
- FORECAST TRACK
- CONE OF UNCERTAINTY

| STATIONS | DISTANCE(KM) AND DIRECTION FROM STATIONS | | |
|-------------|--|---------------|---------------|
| | 20.03.22/0300 | 21.03.22/0000 | 22.03.22/0000 |
| Yangon | 840,SSW | 570,SSW | 310,WSW |
| Carnicobar | 110,NNW | 370,N | 700,N |
| Hut bay | 50,S | 220,NNE | 550,NNE |
| Portblair | 170,S | 110,NE | 430,NNE |
| Maya bundar | 320,S | 80,SE | 290,NNE |

N:NORTH, NNE:NORTH-NORTHEAST, NE:NORTHEAST, ENE:EAST-NORTHEAST, E:EAST, SE:SOUTHEAST, SSE:SOUTH-SOUTHEAST, S:SOUTH, SSW:SOUTH-SOUTHWEST, SW:SOUTHWEST, WSW:WEST-SOUTHWEST, W:WEST, WNW:WEST-NORTHWEST, NW:NORTHWEST, NNW:NORTH-NORTHWEST



OBSERVED AND FORECAST TRACK ALONGWITH QUADRANT WIND DISTRIBUTION OF DEPRESSION OVER SOUTHEAST BAY OF BENGAL AND ADJOINING SOUTH ANDAMAN SEA ON 0300 UTC OF 20TH MARCH 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 (\geq 120 KT)

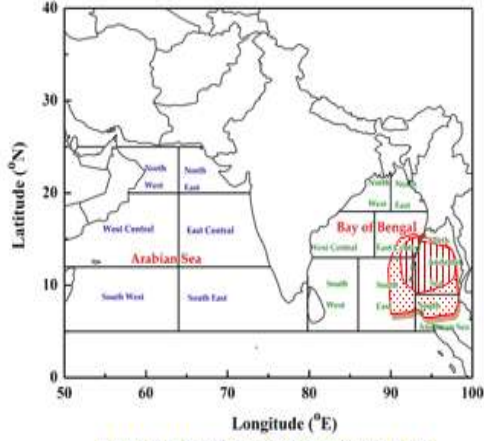
● LESS THAN 34 KT
 ○ 34-47 KT
 ● \geq 48 KT
 — OBSERVED TRACK
 — FORECAST TRACK
 — CONE OF UNCERTAINTY
AREA OF MAXIMUM SUSTAINED WIND SPEED:
 ■ 28-33 KT (52-61 KMPH)
 ■ 34-49 KT (62-91 KMPH)
 ■ 50-63 KT (92-117 KMPH)
 ■ \geq 64 KT (\geq 118 KMPH)

IMPACT OVER THE SEA

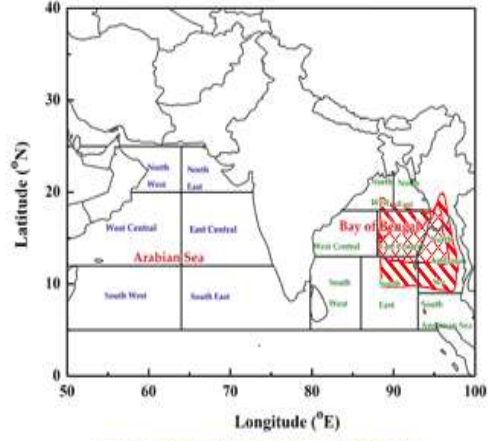
| MSW (knot/kmph) | Impact | Action |
|-------------------------|------------------------|--|
| 28-33 (52-61) | Very rough seas | Total suspension of fishing operations |
| 34-49 (62-91) | High to very high seas | Total suspension of fishing operations |
| 50-63 (92-117) | Very high seas | Total suspension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

INDIA METEOROLOGICAL DEPARTMENT
FISHERMAN WARNING FOR BAY OF BENGAL AND ARABIAN SEA

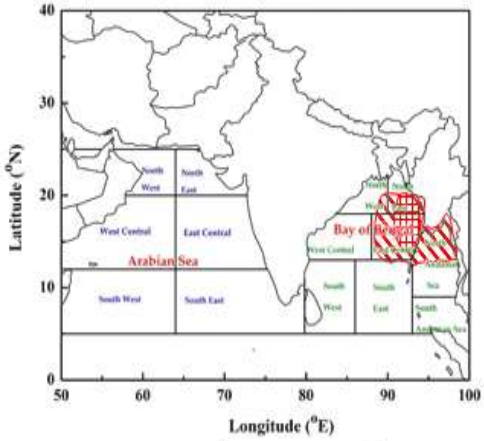
DAY-1: 20.03.2022/0600 UTC TO 21.03.2022/0600 UTC



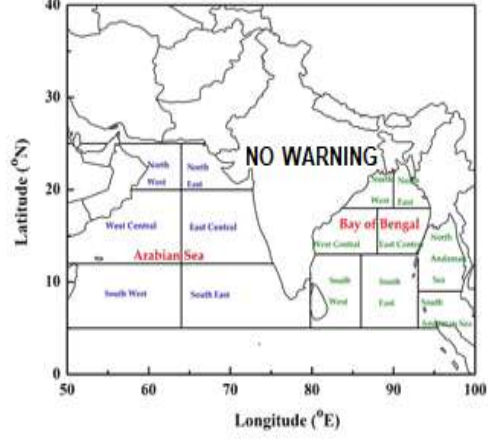
DAY-2: 21.03.2022/0600 UTC TO 22.03.2022/0600 UTC



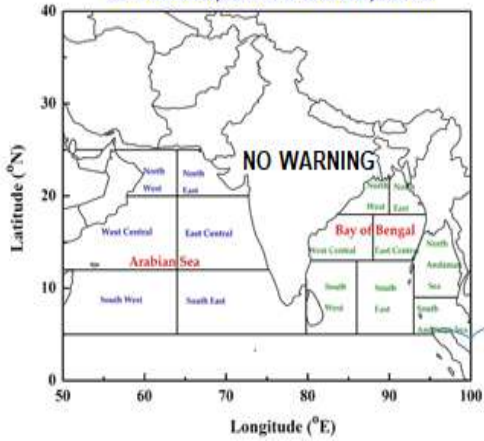
DAY-3: 22.03.2022/0600 UTC TO 23.03.2022/0600 UTC



DAY-4: 23.03.2022/0600 UTC TO 24.03.2022/0600 UTC



DAY-5: 24.03.2022/0600 UTC TO 25.03.2022/0600 UTC



AREA UNDER FISHERMEN WARNING

- 40-50 KMPH GUSTING TO 55 KMPH (SQUALLY WEATHER)
- 45-55 KMPH GUSTING TO 65 KMPH
- 50-60 KMPH GUSTING TO 70 KMPH
- 60-70 KMPH GUSTING TO 80 KMPH
- 65-75 KMPH GUSTING TO 85 KMPH

EXPECTED IMPACT & ACTION SUGGESTED for Andaman and Nicobar Islands.

A. Impact Expected

- Breaking of tree branches and uprooting of small trees.
- Partial disruption of power and communication lines.
- Localized Flooding of roads, inundation and water logging in low lying areas.
- Occasional reduction in visibility due to heavy rainfall.
- Disruption of traffic due to water logging in roads leading to increased travel time.
- Adverse impact on marine and tourist activities along the coasts.
- Damage to kutcha roads.
- Possibilities of damage to vulnerable structure.
- Localized Landslides/Mudslides
- Damage to horticulture and standing crops in some areas due to squally wind and inundation.

B. Action Suggested

- Total suspension of fishing and tourism activities during 20th to 22nd March.
- Avoid going to areas that face the water logging problems often.
- People are advised to be in safe areas and avoid staying in vulnerable structure.
- Regulate and suspend off-shore activities during 20th to 22nd March.
- Regulate air-traffic on 20th and 21st March, 2022.
- Check for traffic congestion on your route before leaving for your destination.
- Follow any traffic advisories that are issued in this regard.

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) |

-  Heavy Rain
-  Strong Winds

| 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 |

-  Thunderstorm with Lightning
-  Heat Wave