



Government of India
Ministry of Earth Sciences
India Meteorological Department

Press Release
Date: 17th March, 2022
Time of Issue: 1300 hrs IST

Subject:

- i) Low pressure area southeast Bay of Bengal & its likely intensification into a cyclonic storm by 21st March, 2022**
- ii) Heat Wave to Severe Heat wave conditions very likely over Rajasthan and Heat wave conditions over Jammu Division, Himachal Pradesh, Gujarat State, West Madhya Pradesh, Vidarbha, Telangana, Coastal Andhra Pradesh & interior Odisha.**

Weather observed during past 24 hours:

- ✓ **Maximum Temperatures** (16/03/2022) recorded around 39-41°C over most parts of West Rajasthan, Gujarat Region and Vidarbha; over many parts of Saurashtra & Kutch, East Rajasthan, Madhya Maharashtra, Marathwada, Telangana, Rayalaseema and Chhattisgarh; over some parts of Madhya Pradesh, Odisha and Coastal Andhra Pradesh.
- ✓ Yesterday, **Severe Heat Wave conditions** observed at most parts over Jammu Division and West Rajasthan; **Heat wave conditions** in some pockets with **severe heat wave conditions** in isolated pockets observed over Gujarat state and **Heat Wave to severe heat wave conditions** in isolated pockets observed over Himachal Pradesh and Uttarakhand and **Heat wave conditions** in many pockets over Vidarbha and in isolated pockets over West Madhya Pradesh and Interior Odisha.
- ✓ The maximum temperatures were **above normal by 4.5°C** over most parts of Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Punjab, Haryana-Chandigarh-Delhi, Rajasthan, Madhya Pradesh, Arunachal Pradesh, Assam-Meghalaya and Nagaland-Manipur-Mizoram-Tripura; over many parts of Gujarat state, Vidarbha and Uttarakhand; over some parts of Odisha, Chhattisgarh, Sub-Himalayan West Bengal-Sikkim and East Uttar Pradesh and over isolated places of Jharkhand and Coastal Andhra Pradesh & Yanam.

Low pressure area southeast Bay of Bengal & it's likely intensification into a cyclonic storm by 21st March, 2022

The low pressure area over central parts of south Bay of Bengal moved east-northeastwards and lay centred at 0830 hours IST of today the 17th March over southeast Bay of Bengal and adjoining east Equatorial Indian Ocean. It is likely continue to move east-northeastwards, become a well marked low pressure area and lie over southeast Bay of Bengal and adjoining south Andaman Sea by 19th March morning. Thereafter, it is likely to move nearly northwards along & off Andaman & Nicobar Islands, intensify into a depression by morning of 20th March and into a cyclonic storm on 21st March. Thereafter, it is likely to move nearly north-northeastwards and reach near Bangladesh-north Myanmar coasts around morning of 22nd March, 2022 (**graphics on experimental pre-genesis track & intensity forecast along with cone of uncertainty and wind distribution are enclosed**). Under its influence:

Warnings:

(i) Rainfall (warning graphics enclosed)

- **18th March:** Light to moderate rainfall/thundershower at most places with **heavy to very heavy rainfall** at isolated places very likely over Nicobar Islands.
- **19th March:** Light to moderate rainfall/thundershower at most places with **heavy to very heavy rainfall at a few places** very likely over Andaman & Nicobar Islands with **isolated extremely heavy rainfall** likely over Nicobar Islands.
- **20th March:** Light to moderate rainfall/thundershower at most places with **heavy to very heavy rainfall at a few places and extremely heavy rainfall at isolated places** very likely over Andaman and Nicobar Islands.
- **21st March:** Light to moderate rainfall/thundershower at most places with **isolated heavy rainfalls** very likely over Andaman Islands.

(ii) Wind warning (warning graphics enclosed)

- **17th and 18th March:** Squally winds speed reaching 40-50 kmph gusting to 60 kmph are very likely to prevail over southeast Bay of Bengal and adjoining south Andaman Sea.
- **19th March:** Squally winds speed reaching 45-55 kmph gusting to 65 kmph are very likely to prevail over Andaman and Nicobar Islands, Andaman Sea and southeast Bay of Bengal.
- **20th March:** Squally winds speed reaching 55-65 kmph gusting to 75 kmph are very likely to prevail over Andaman and Nicobar Islands, Andaman Sea and adjoining southeast Bay of Bengal from forenoon and would gradually increase thereafter.
- **21st March:** Gale winds speed reaching 70-80 kmph gusting to 90 kmph are very likely to prevail over Andaman and Nicobar Islands, eastcentral Bay of Bengal and adjoining southeast Bay of Bengal.
- **22nd March:** Gale winds speed reaching 70-80 kmph gusting to 90 kmph are very likely to prevail over eastcentral Bay of Bengal, adjoining northeast Bay of Bengal and along & off southeast Bangladesh & North Myanmar coasts. Squally wind speed reaching 45-55 kmph gusting to 65 kmph is likely to prevail over north Andaman Islands, north Andaman Sea and adjoining southeast bay of Bengal.

(iii) Sea condition

- Sea condition is very likely to become rough over southeast Bay of Bengal and adjoining south Andaman Sea during 17th – 18th March.
- Sea condition is very likely to become rough to very rough over Andaman Sea and adjoining southeast Bay of Bengal during 19th March. It would become very rough over the same region on 20th March.
- Sea condition is very likely to become 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 on 22nd March.

(iv) Fishermen Warning (Graphics enclosed)

- Fishermen are advised not to venture into southeast BoB area areas during 17th – 21st March.
- Into Andaman Sea and along & off Andaman and Nicobar Islands during 18th to 22nd March.
- Into eastcentral Bay of Bengal during 21st to 22nd March and into northeast Bay of Bengal on 22nd March.

Forecast & Warnings for other parts of the country:

- ✓ Under the influence of a fresh Western Disturbance, isolated to scattered rainfall/snowfall very likely over Western Himalayan Region during 18th night to 20th with **thunderstorm/lightning** on 19th March, 2022.
- ✓ Light isolated rainfall very likely over Kerala & Mahe and Tamilnadu, Puducherry & Karaikal during next 5 days; over Coastal & South Interior Karnataka during 18th to 20th; Andhra Pradesh & Telangana on 20th & 21st March, 2022.
- ✓ Dust raising winds very likely to prevail over West Rajasthan on 19th & 20th March, 2022.

Maximum Temperature Forecast:

- ✓ No significant change in maximum temperatures very likely over most parts of Northwest, central, west and south Peninsular India during next 48 hours and fall by 2-3°C thereafter.
- ✓ No significant change in maximum temperatures over rest parts of the country.

Heat Wave warning (Graphics enclosed):

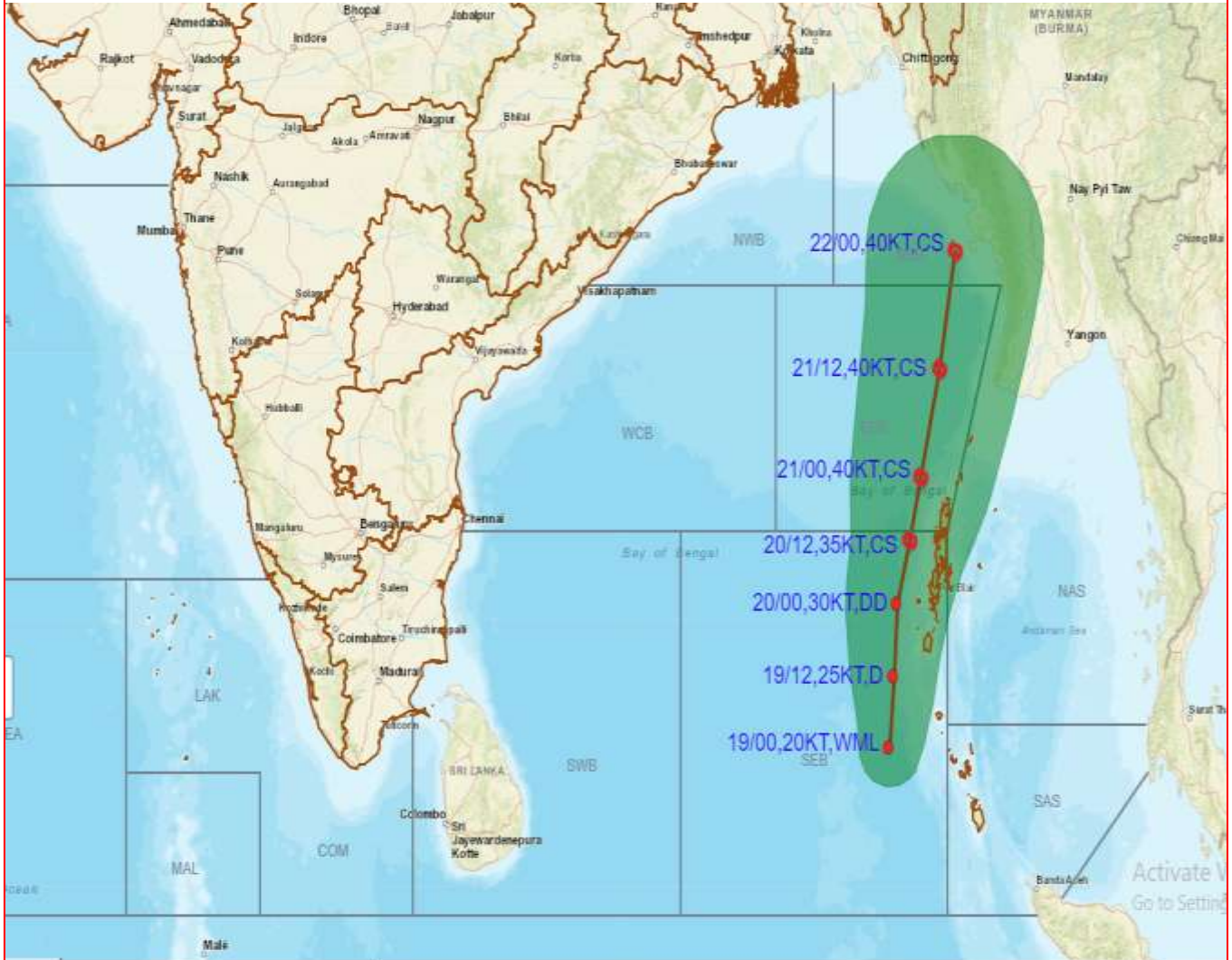
- ✓ **Heat Wave to Severe Heat Wave conditions** very likely to prevail in some parts of West Rajasthan & in isolated pockets Gujarat State on 17th & 18th March, 2022.
- ✓ **Heat Wave conditions** in isolated pockets very likely over Madhya Pradesh, Vidarbha, Interior Odisha, Coastal Andhra Pradesh and Telangana on 17th & 18th; over Jammu division and Himachal Pradesh on 17th March, 2022.

For more details refer:

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



EXPERIMENTAL PRE-GENESIS TRACK FORECAST ALONGWITH CONE OF UNCERTAINTY ISSUED AT THE STAGE OF LOW PRESSURE AREA OVER SOUTHEAST BAY OF BENGAL ON 0300 UTC OF 17TH MARCH 2022

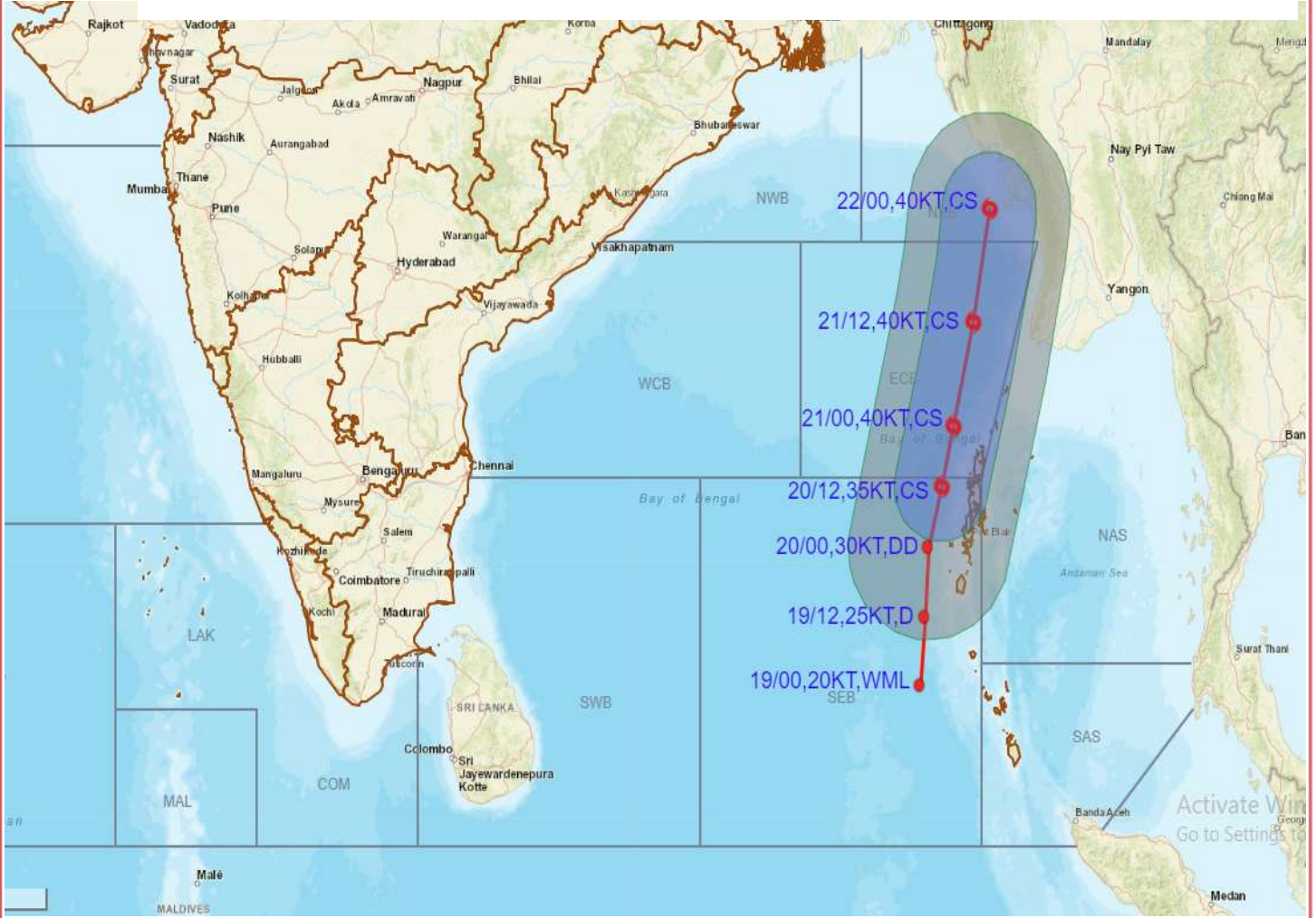


DATE/TIME IN UTC
IST=UTC + 0530
L: LOW PRESSURE AREA
WML: WELL MARKED LOW PRESSURE AREA
D: DEPRESSION (17-27 KT)
DD: DEEP DEPRESSION (28-33 KT)
CS: CYCLONIC STORM (34-47 KT)
SCS: SEVERE CYCLONIC STORM (48-63KT)
VSCS: VERY SEVERE CYCLONIC STORM (64-89 KT)
ESCS: EXTREMELY SEVERE CYCLONIC STORM (90-119 KT)
SuCS: SUPER CYCLONIC STORM (≥ 20 KT)

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



EXPERIMENTAL PRE-GENESIS INTENSITY FORECAST ALONGWITH QUADRANT WIND DISTRIBUTION ISSUED AT THE STAGE OF LOW PRESSURE AREA OVER SOUTHEAST BAY OF BENGAL ON 0300 UTC OF 17TH MARCH 2022



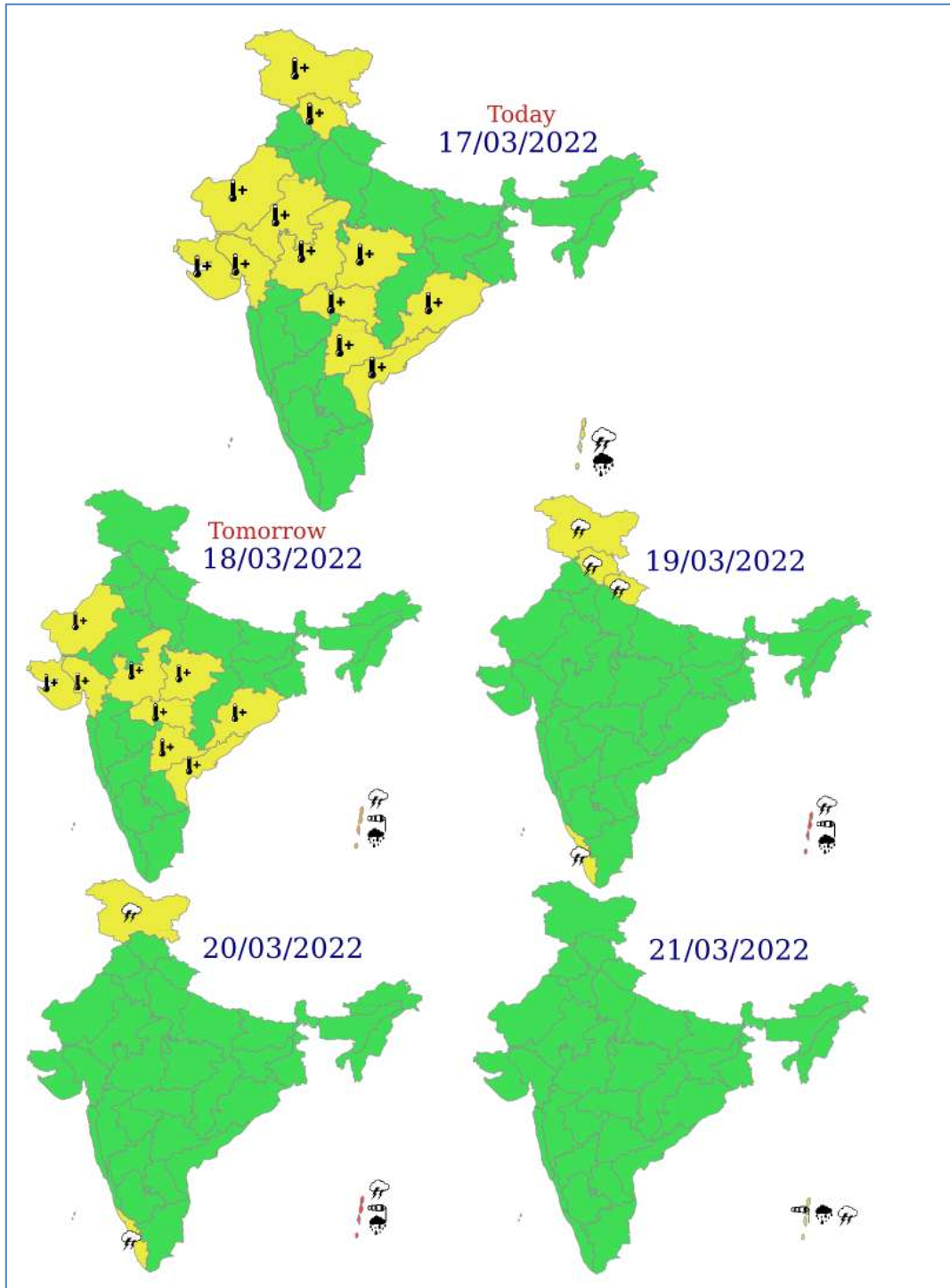
DATE/TIME IN UTC
 IST=UTC + 0530
 L: LOW PRESSURE AREA
 WML: WELL MARKED LOW PRESSURE AREA
 D: DEPRESSION (17-27 KT)
 DD: DEEP DEPRESSION (28-33 KT)
 CS: CYCLONIC STORM (34-47 KT)
 SCS: SEVERE CYCLONIC STORM (48-63KT)
 VSCS: VERY SEVERE CYCLONIC STORM (64-89 KT)
 ESCS: EXTREMELY SEVERE CYCLONIC STORM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

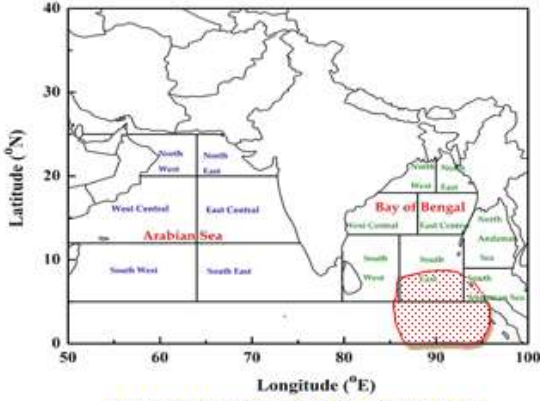
Rainfall and Heat Wave Warning Graphics



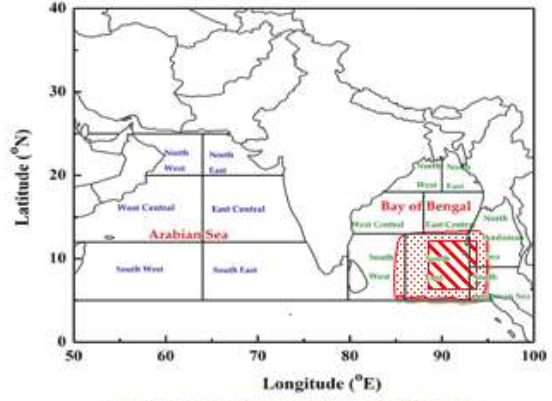
Fishermen warning Graphics

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

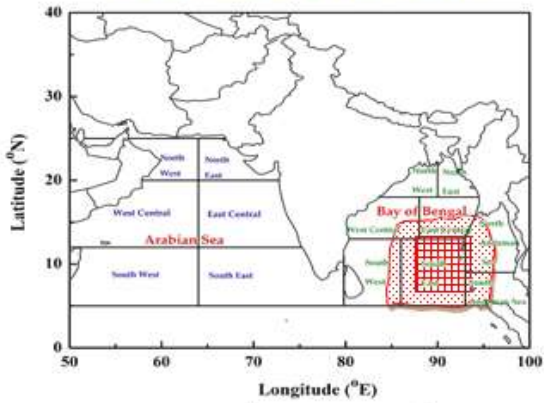
DAY-1: 17.03.2022/0600 UTC TO 18.03.2022/0600 UTC



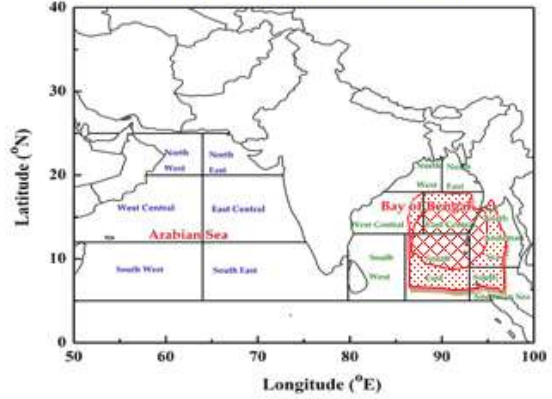
DAY-2: 18.03.2022/0600 UTC TO 19.03.2022/0600 UTC



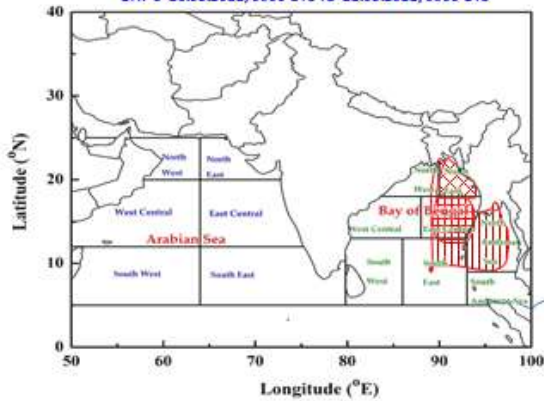
DAY-3: 19.03.2022/0600 UTC TO 20.03.2022/0600 UTC



DAY-4: 20.03.2022/0600 UTC TO 21.03.2022/0600 UTC



DAY-5: 21.03.2022/0600 UTC TO 22.03.2022/0600 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
-  70-80 KMPH GUSTING TO 90 KMPH

Impact expected and action suggested due to **Heat wave to Severe heat wave conditions** over West Rajasthan and Gujarat state on 17th & 18th March, 2022.

Impact expected:

- Heat wave could lead to moderate health concern for vulnerable people e.g. infants, elderly, people with chronic diseases
- Increased likelihood of heat illness symptoms in people who are either exposed to sun for a prolonged period or doing heavy work.

Action suggested:

- Avoid heat exposure– keep cool. Avoid dehydration.
- Drink sufficient water- even if not thirsty.
- Avoid heat exposure, wear lightweight, light-colored, loose, cotton clothes and cover the head by use of cloth, hat or umbrella etc.
- Use ORS, homemade drinks like lassi, torani (rice water), lemon water, buttermilk, etc. to keep yourself hydrated.

EXPECTED IMPACT & ACTION SUGGESTED for Andaman and Nicobar Islands

Impact Expected

- 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.

Action Suggested

- Total suspension of fishing and tourism activities during 19th to 22nd March.
- 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.
- Regulate off-shore activities from 19th and suspension of off-shore activities during 20th to 22nd March.
- Regulate air-traffic on 20th and 21st March, 2022.

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

