



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

**Press Release**  
**Date: 18<sup>th</sup> March, 2022**  
**Time of Issue: 1300 hrs IST**

**Subject:**

- i) Low pressure area over southeast Bay of Bengal and adjoining south Andaman Seas & east Equatorial Indian Ocean is likely to intensify into a cyclonic storm by 21<sup>st</sup> March, 2022.**
- ii) Heat Wave to Severe Heat wave conditions over Rajasthan and Heat wave conditions over Gujarat State, West Madhya Pradesh, Vidarbha and Telangana**

**Weather observed during past 24 hours:**

- ✓ **Maximum Temperatures** (17/03/2022) recorded 40°C and above over most parts of West Rajasthan, Marathwada and Vidarbha; over many parts of Gujarat state, Telangana and Rayalaseema; over some parts of West Madhya Pradesh and Madhya Maharashtra and at isolated pockets over east Rajasthan and Coastal Andhra Pradesh.
- ✓ Yesterday, **Severe Heat Wave conditions** were observed at most parts over West Rajasthan; in many parts over Himachal Pradesh and in some parts over Jammu division and **Heat wave conditions** in many parts over Saurashtra-Kutch, Vidarbha and in some parts over Gujarat Region and West Madhya Pradesh.
- ✓ The maximum temperatures were **above normal by 4.5°C** over most parts of Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh and Rajasthan; over many parts of Punjab, Haryana-Chandigarh-Delhi, West Madhya Pradesh, Arunachal Pradesh, Assam-Meghalaya, Saurashtra & Kutch and Vidarbha; over some parts of Sub-Himalayan West Bengal-Sikkim and over isolated places of Gujarat region..

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

The low pressure area over central parts of southeast Bay of Bengal moved east-northeastwards and lay centred at 0830 hours IST of today the 18th March over southeast Bay of Bengal and adjoining south Andaman Seas & 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 on 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.

## Warnings:

### (i) Rainfall (warning graphics enclosed)

- **18<sup>th</sup> March:** Light to moderate rainfall/thundershower at most places with **heavy rainfall at isolated places** very likely over Nicobar Islands.
- **19<sup>th</sup> 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.**
- **20<sup>th</sup> 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 Islands.
- **21<sup>st</sup> March:** Light to moderate rainfall/thundershower at most places with **isolated heavy rainfalls** very likely over Andaman Islands.

### (ii) Wind warning

- **18<sup>th</sup> 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 and east equatorial Indian Ocean.
- **19<sup>th</sup> 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.
- **20<sup>th</sup> 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.
- **21<sup>st</sup> 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.
- **22<sup>nd</sup> March:** Gale winds speed reaching 60-70 kmph gusting to 80 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 40-50 kmph gusting to 60 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 on 18<sup>th</sup> March.
- Sea condition is very likely to become rough to very rough over Andaman Sea and adjoining southeast Bay of Bengal during 19<sup>th</sup> March. It would become very rough over the same region on 20<sup>th</sup> March.
- Sea condition is very likely to become high over Andaman Sea, southeast and adjoining eastcentral Bay of Bengal on 21<sup>st</sup>, over eastcentral and adjoining southeast & northeast Bay of Bengal and north Andaman Sea on 22<sup>nd</sup> March.

### (iv) Fishermen Warning (Graphics enclosed)

- Fishermen are advised not to venture into southeast Bay of Bengal area areas during 18<sup>th</sup> to 21<sup>st</sup> March; into Andaman Sea and along & off Andaman and Nicobar Islands during 18<sup>th</sup> to 22<sup>nd</sup> March; into eastcentral Bay of Bengal on 21<sup>st</sup> & 22<sup>nd</sup> March and into northeast Bay of Bengal on 22<sup>nd</sup> March, 2022.

### **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 18<sup>th</sup> night to 21<sup>st</sup> with **thunderstorm/lightning** on 19<sup>th</sup> & 20<sup>th</sup> March, 2022. Isolated hailstorm also likely over Uttarakhand on 19<sup>th</sup> March, 2022.
- ✓ Light isolated rainfall very likely over Kerala & Mahe, Tamilnadu, Puducherry & Karaikal and Coastal & South Interior Karnataka during next 5 days; over Rayalaseema, north Interior Karnataka during 20<sup>th</sup> to 22<sup>nd</sup>; over Coastal Andhra Pradesh and Telangana on 21<sup>st</sup> & 22<sup>nd</sup> March, 2022.

### **Maximum Temperature Forecast:**

- ✓ No significant change in maximum temperatures very likely over most parts of Northwest, central and west India during next 24 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):**

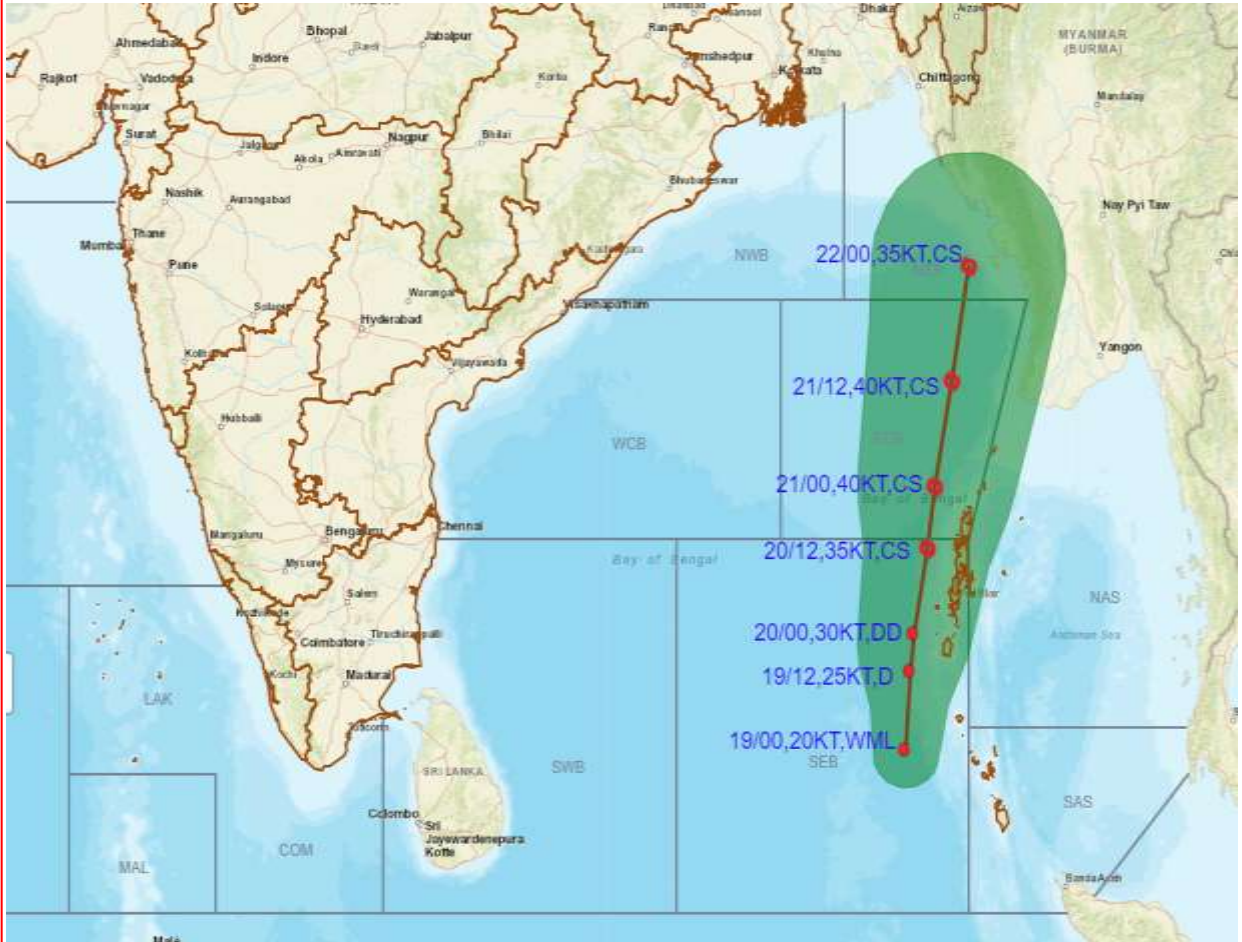
- ✓ **Heat Wave conditions** very likely to prevail in isolated to some parts of Rajasthan, West Madhya Pradesh and Vidarbha during next 48 hours; over Gujarat state, Telangana during next 24 hours. **Severe Heat Wave conditions** at isolated pockets also very likely over West Rajasthan during next 24 hours.

#### **For more details refer:**

[https://mausam.imd.gov.in/imd\\_latest/contents/subdivisionwise-warning.php](https://mausam.imd.gov.in/imd_latest/contents/subdivisionwise-warning.php)



**EXPERIMENTAL PRE-GENESIS TRACK AND INTENSITY FORECAST  
ALONGWITH CONE OF UNCERTAINTY ISSUED AT THE STAGE OF LOW  
PRESSURE AREA OVER SOUTHEAST BAY OF BENGAL ON 0300 UTC OF 18<sup>TH</sup>**



**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**

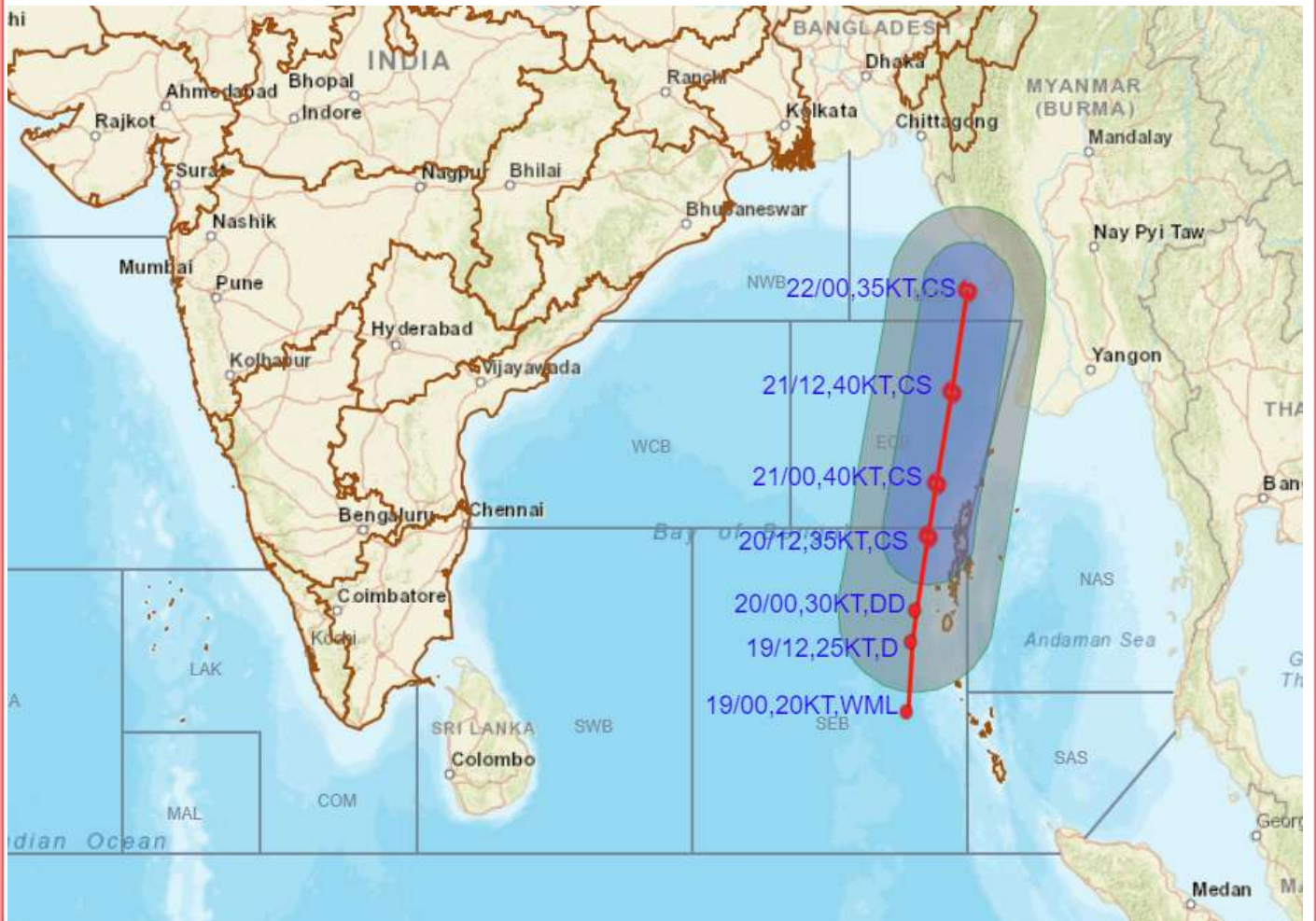


**CONE OF UNCERTAINTY**





**EXPERIMENTAL PRE-GENESIS TRACK AND INTENSITY FORECAST ALONGWITH QUADRANT WIND DISTRIBUTION ISSUED AT THE STAGE OF LOW PRESSURE AREA OVER SOUTHEAST BAY OF BENGAL ON 0300 UTC OF 18<sup>TH</sup> MARCH 2022**



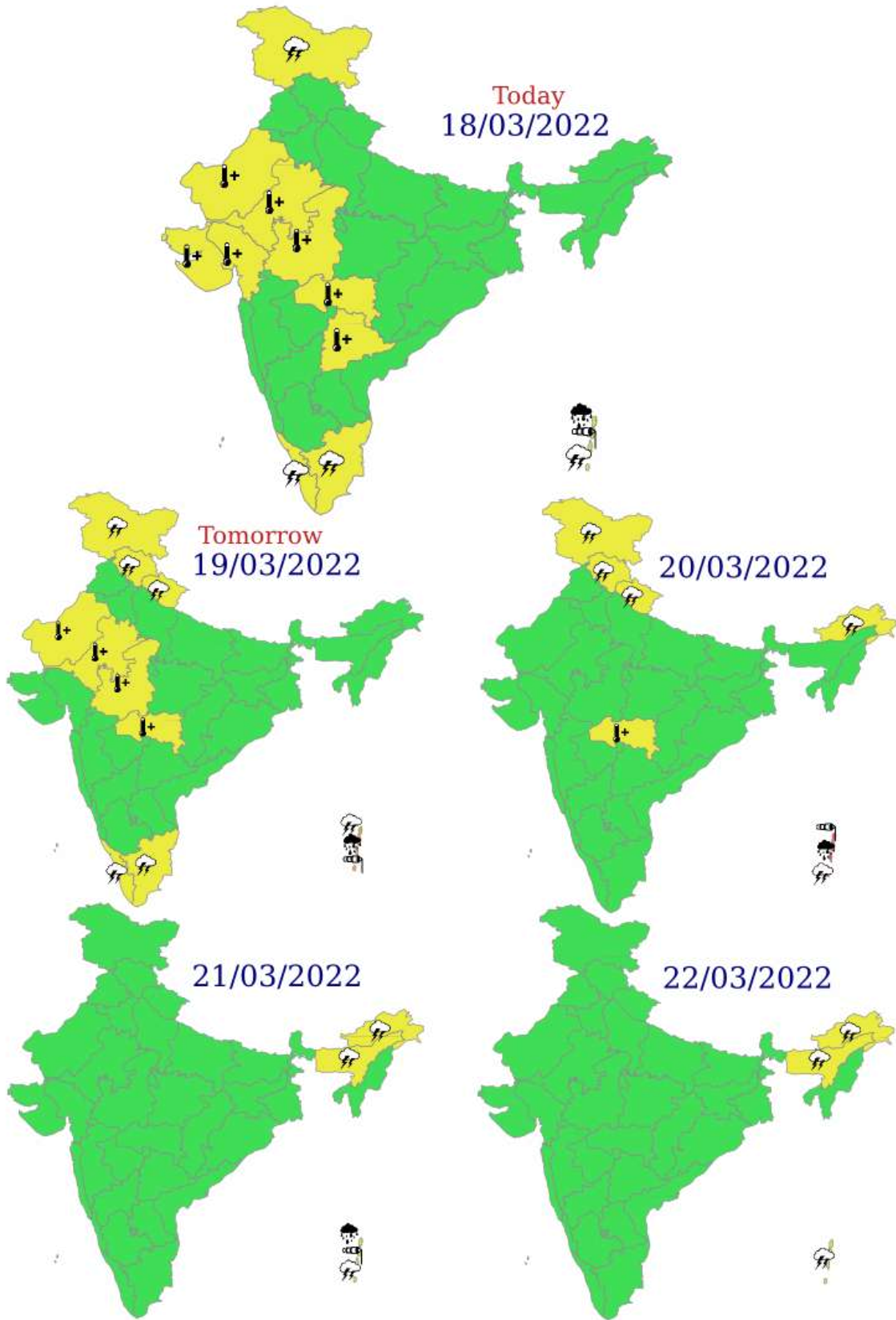
DATE/TIME IN UTC  
 IST=UTC + 0530  
 L: LOW PRESSURE AREA  
 WML: WELL MARKED LOW PRESSURE AREA  
 D: DEPRESSION (17-27 KT)  
 DD: DEEP DEPRESSION (28-33 KT)  
 CS: CYCLONIC STORM (34-47 KT)  
 SCS: SEVERE CYCLONIC STORM (48-63KT)  
 VSCS: VERY SEVERE CYCLONIC STORM (64-89 KT)  
 ESCS: EXTREMELY SEVERE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

# Rainfall and Heat Wave Warning Graphics

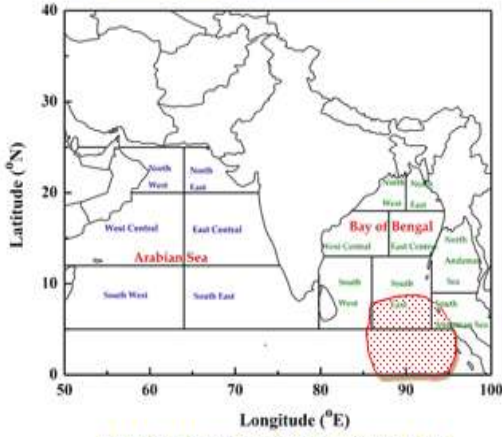




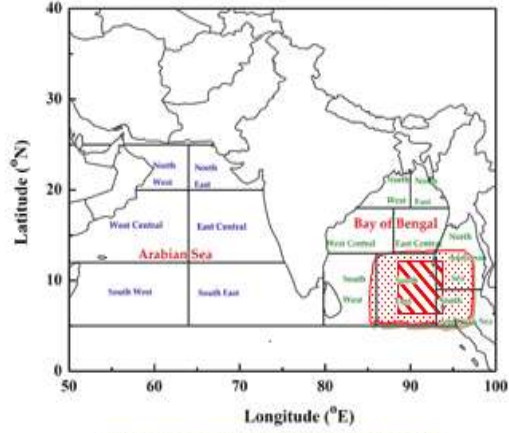
# Fishermen warning Graphics

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

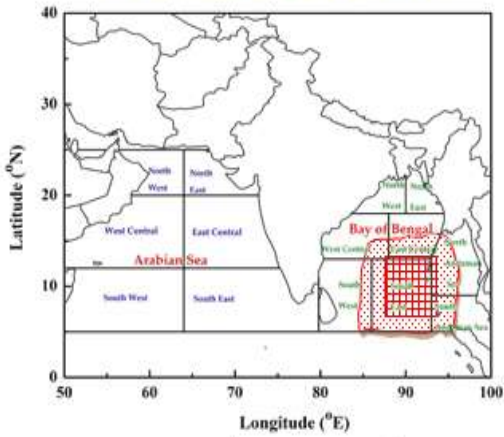
DAY-1: 18.03.2022/0600 UTC TO 19.03.2022/0600 UTC



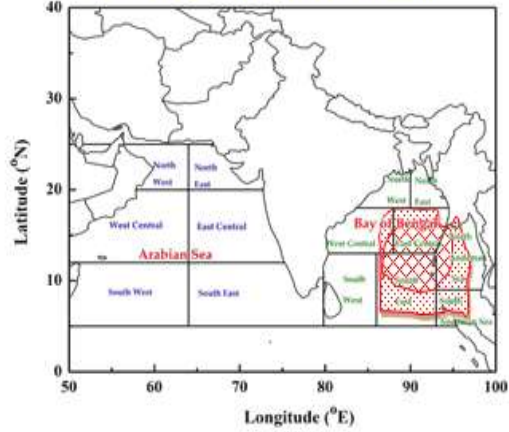
DAY-2: 19.03.2022/0600 UTC TO 20.03.2022/0600 UTC



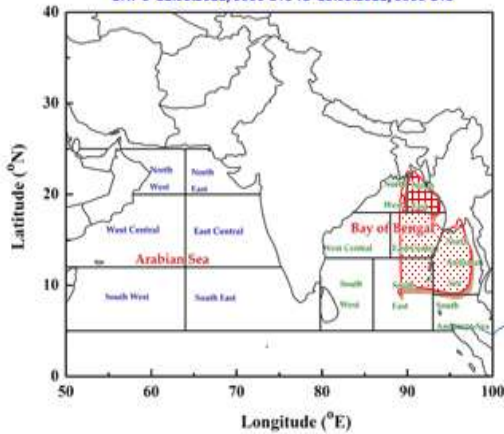
DAY-3: 20.03.2022/0600 UTC TO 21.03.2022/0600 UTC



DAY-4: 21.03.2022/0600 UTC TO 22.03.2022/0600 UTC



DAY-5: 22.03.2022/0600 UTC TO 23.03.2022/0600 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 18<sup>th</sup> 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.

<b>SPATIAL DISTRIBUTION</b> (% 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)



<b>WARNING</b>	
WARNING (TAKE ACTION)	
ALERT ( BE PREPARED)	
WATCH (BE UPDATED)	
NO WARNING ( NO ACTION)	

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

