



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

**Press Release  
Date: 04<sup>th</sup> March, 2022  
Time of Issue: 1215 hrs IST**

**Subject: (i) Depression over Southwest Bay of Bengal.  
(ii) Wet spell over Western Himalayan Region & adjoining plains of Northwest India.**

**(i) Depression over Southwest Bay of Bengal:**

Yesterday's depression over southwest Bay of Bengal & adjoining Equatorial Indian Ocean now lies over southwest Bay of Bengal and lay centered at 0830 hrs IST of today, the 4<sup>th</sup> March 2022, near latitude 8.9°N and longitude 82.9°E, about 180 km east of Trincomalee (Sri Lanka), 390km southeast of Nagappattinam (Tamil Nadu), 470 km southeast of Puducherry (Tamil Nadu) and about 530 km south-southeast of Chennai (Tamil Nadu).

It is likely to intensify further into a Deep Depression during next 12 hours. It is likely to move north-northwestwards off east coast of Sri Lanka till 5<sup>th</sup> March morning and then move west-northwestwards towards north Tamil Nadu Coast during subsequent 48 hours.

Forecast track and intensity are given in the following table:

<b>Date/Time(IST)</b>	<b>Position (Lat. °N/ long. °E)</b>	<b>Maximum sustained surface wind speed (Kmph)</b>	<b>Category of cyclonic disturbance</b>
04.03.22/0830	8.9/82.9	45-55 gusting to 65	Depression
04.03.22/1730	10.1/82.4	50-60 gusting to 70	Deep Depression
05.03.22/0530	10.6/82.1	50-60 gusting to 70	Deep Depression
05.03.22/1730	10.9/81.8	50-60 gusting to 70	Deep Depression
06.03.22/0530	11.1/81.3	40-50 gusting to 60	Depression

**Rainfall forecast & Warnings (warning graphics enclosed):**

- ✓ Light to moderate rainfall/thundershower at isolated places is likely over coastal Tamil Nadu, Puducherry & Karaikal, south coastal Andhra Pradesh and Rayalaseema on 04<sup>th</sup> March.
- ✓ Light to moderate rainfall/thunder shower at a few places with isolated heavy rainfall is very likely over north coastal Tamil Nadu, Puducherry & Karaikal; Light to moderate rainfall/thunder shower at isolated places is very likely over south coastal Andhra Pradesh and Rayalaseema on 05<sup>th</sup> March.

- ✓ Light to moderate rainfall/thunder shower at many places with heavy to very heavy rainfall at isolated places is very likely over coastal Tamil Nadu, Puducherry & Karaikal; Light to moderate rainfall/thunder shower with heavy falls at isolated places is very likely over south coastal Andhra Pradesh and Rayalaseema on 06<sup>th</sup> March.
- ✓ Light to moderate rainfall/thunder shower at many places with heavy to very heavy rainfall at isolated places is very likely over north Tamil Nadu, Puducherry & Karaikal; Light to moderate rainfall/thunder shower with heavy falls at isolated places is very likely over south coastal Andhra Pradesh and Rayalaseema on 07<sup>th</sup> March, 2022.

**Wind warning (warning graphics enclosed):**

- ✓ Squally winds speed reaching 45-55 kmph gusting to 65 kmph would prevail over Southwest & adjoining Westcentral Bay of Bengal, Gulf of Mannar and along & off north Tamil Nadu, Puducherry & South Andhra Pradesh coasts till 4th evening. Thereafter, the winds would gradually increase becoming 50-60 kmph gusting to 70 kmph over the same region till 6th March.
- ✓ Squally winds speed reaching 40-50 kmph gusting to 60 kmph are very likely to prevail over Westcentral & adjoining Southwest Bay of Bengal and along & off north Tamil Nadu, Puducherry and south Andhra Pradesh coasts on 06<sup>th</sup> March, 2022.

**Sea condition:**

- ✓ Sea condition will be rough to very rough over Southwest & adjoining Westcentral Bay of Bengal, Gulf of Mannar and Comorin area and along & off Tamil Nadu, Puducherry & south Andhra Pradesh coasts during 4<sup>th</sup> to 6<sup>th</sup> March, 2022.

**Fishermen Warning: (Graphics enclosed)**

- ✓ Fishermen are advised not to venture into Southwest & adjoining Westcentral Bay of Bengal, adjoining Equatorial Indian Ocean, Gulf of Mannar, Comorin area and along & off Tamil Nadu, Puducherry and south Andhra Pradesh coasts till 6<sup>th</sup> March, 2022.

**(ii) Wet spell over Western Himalayan Region & adjoining plains of Northwest India:**

- A Western Disturbance as a cyclonic circulation lies over Jammu & neighbourhood in lower & middle tropospheric levels and an induced cyclonic circulation lies over northeast Rajasthan & neighbourhood in lower tropospheric levels.
- Another Western Disturbance is very likely to affect Western Himalayan Region & adjoining plains from the night of 05<sup>th</sup> March, 2022.
- Under the influence of above systems:
  - ✓ Isolated light rainfall/snowfall with isolated **thunderstorm/lightning** very likely over Western Himalayan Region on 04<sup>th</sup> & 05<sup>th</sup> March, 2022.
  - ✓ Fairly widespread to widespread light/moderate rainfall/snowfall with isolated **thunderstorm/lightning** very likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad & Himachal Pradesh and isolated light/moderate rainfall/snowfall with **thunderstorm/lightning** over Uttarakhand on 06<sup>th</sup> & 07<sup>th</sup> March, 2022.
  - ✓ **Isolated heavy rainfall is also very likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad on 6<sup>th</sup> March 2022.**

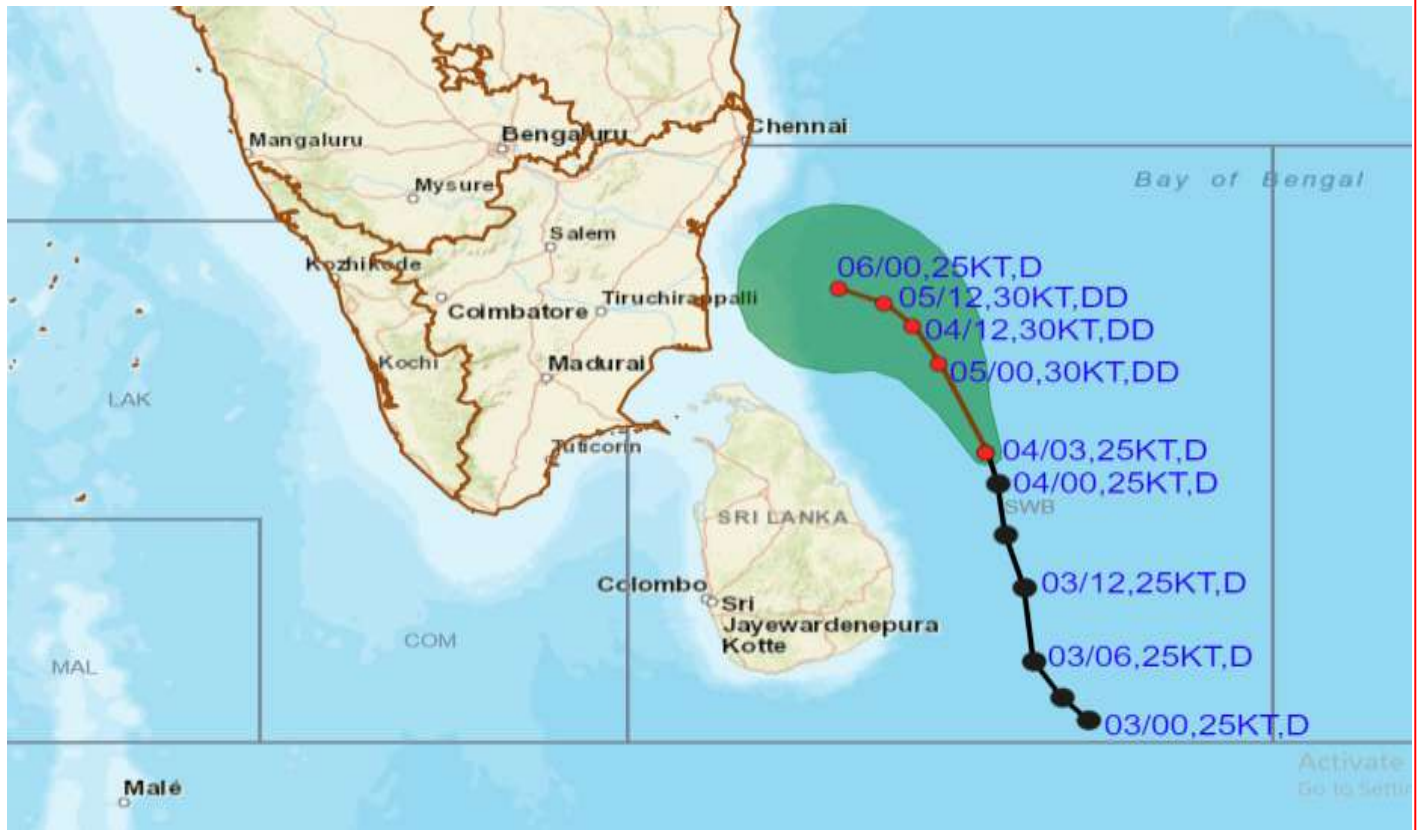
- ✓ Isolated light rainfall very likely over Punjab and Haryana-Chandigarh on 06<sup>th</sup> & 07<sup>th</sup> and over Rajasthan, West Madhya Pradesh and Gujarat Region on 07<sup>th</sup> & 08<sup>th</sup> March, 2022.
- ✓ **Strong surface Winds (speed 25-35 kmph)** very likely to prevail over Haryana-Chandigarh-Delhi & Rajasthan on 04<sup>th</sup> March and over most parts of plains of northwest India on 05<sup>th</sup> March, 2022.
- Another fresh Western Disturbance is very likely to cause fairly widespread to widespread light/moderate rainfall/snowfall over Western Himalayan Region and light isolated rainfall over adjoining plains on 09<sup>th</sup> & 10<sup>th</sup> March, 2022.

**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)



**OBSERVED AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINTY OF DEPRESSION OVER SOUTHWEST BAY OF BENGAL BASED ON 0300 UTC OF 4<sup>th</sup> MARCH, 2022**

STATIONS	DISTANCE (KM) AND DIRECTION FROM STATIONS		
	04.03.22/0830 IST	05.03.22/0530 IST	06.03.22/0530 IST
TRINCOMALEE	185, E	243, NNE	280, N
NAGAPATTINAM	398, SE	252, E	168, ENE
PUDUCHERRY	480, SE	292, ESE	188, ESE
CHENNAI	535, SSE	329, SSE	236, SSE



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

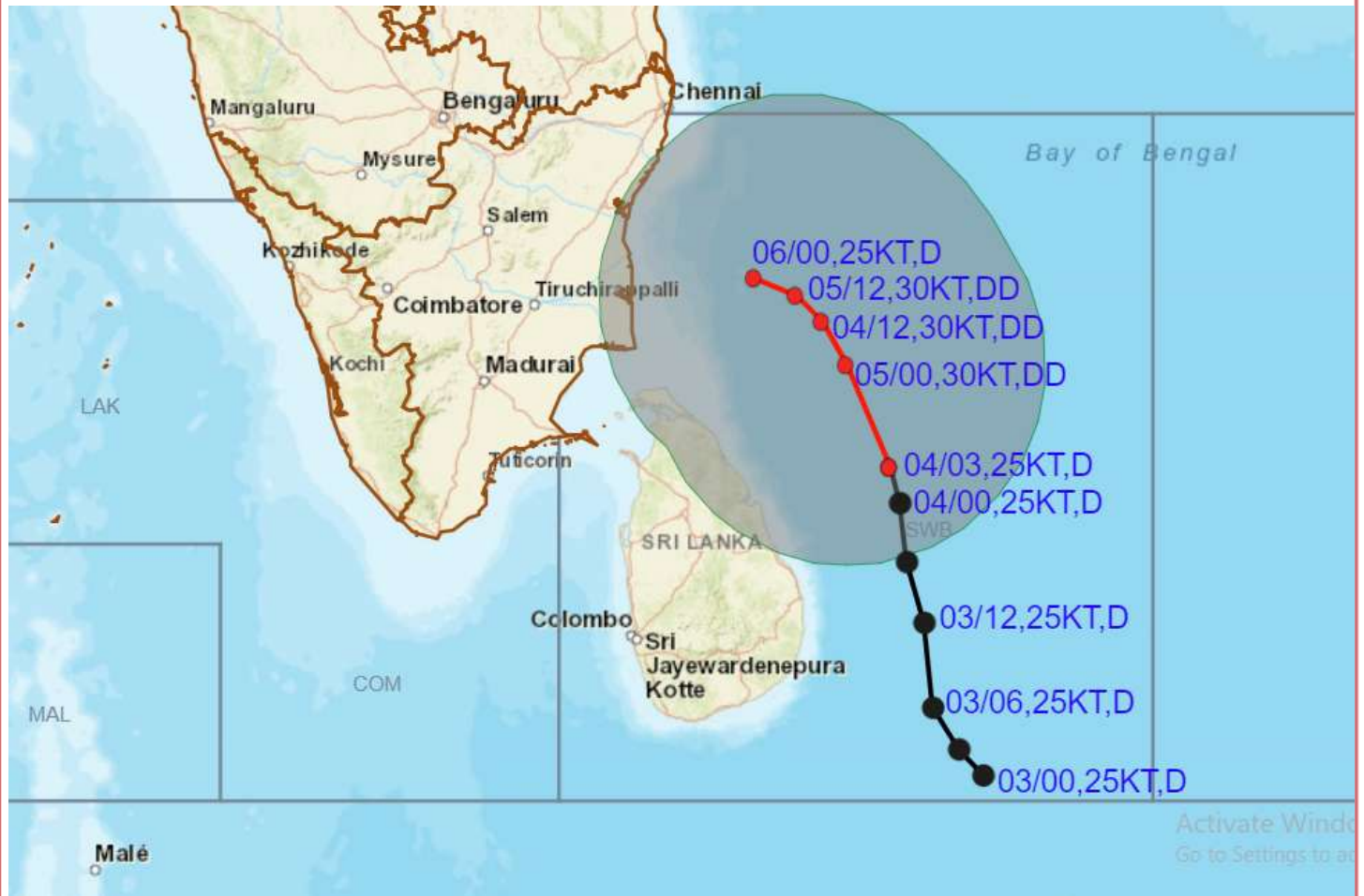
— OBSERVED TRACK

— FORECAST TRACK

▲ CONE OF UNCERTAINTY



**OBSERVED AND FORECAST TRACK ALONGWITH QUADRANT WIND DISTRIBUTION OF DEPRESSION OVER SOUTHWEST BAY OF BENGAL BASED ON 0300 UTC OF 4<sup>th</sup> MARCH, 2022**



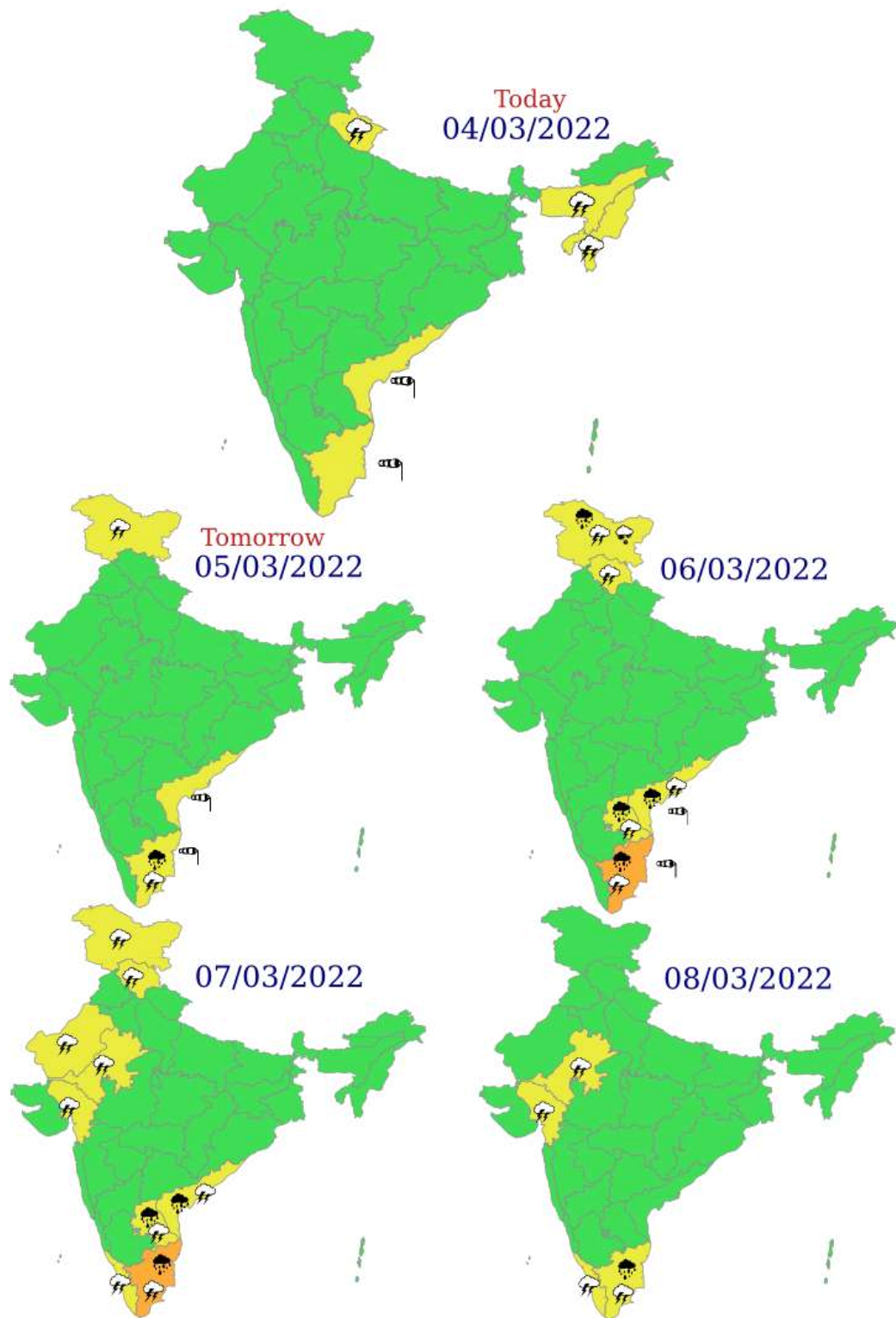
DATE/TIME IN UTC  
 IST=UTC + 0530  
 L: LOW PRESSURE AREA  
 WML: WELL MARKED LOW PRESSURE AREA  
 D: DEPRESSION (17-27 KT)  
 DD: DEEP DEPRESSION (28-33 KT)  
 CS: CYCLONIC STORM (34-47 KT)  
 SCS: SEVERE CYCLONIC STORM (48-63KT)  
 VS: VERY SEVERE CYCLONIC STORM (64-89 KT)  
 ESCS: EXTREMELY SEVERE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

# Weather Warning for India



**WARNING**

WARNING (TAKE ACTION)
ALERT (BE PREPARED)
WATCH (BE UPDATED)
NO WARNING (NO ACTION)

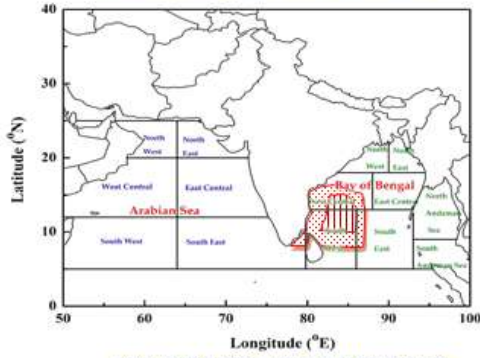
 Heavy Rain

 Strong Winds

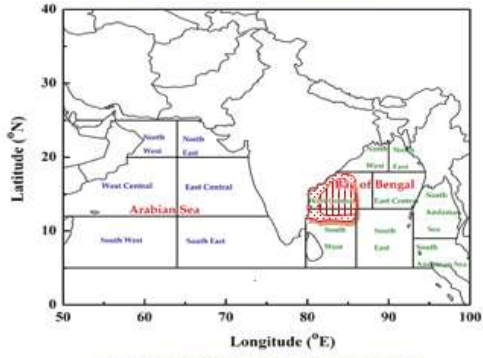
# Fishermen Warning for North Indian Ocean

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

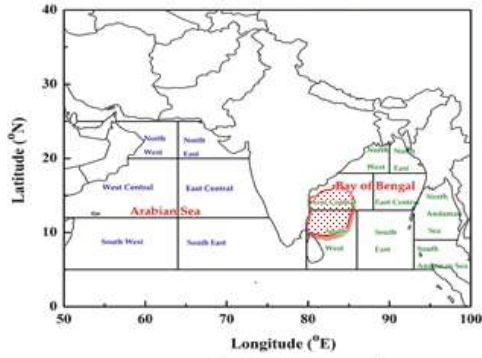
DAY-1: 04.03.2022/0600 UTC TO 05.03.2022/0600 UTC



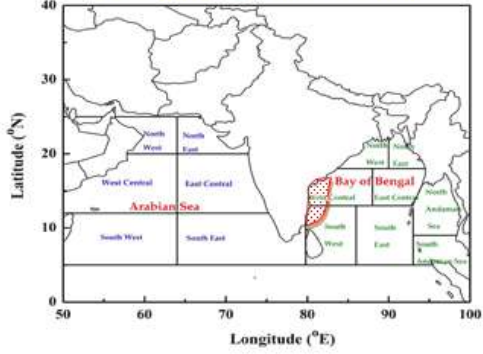
DAY-2: 05.03.2022/0600 UTC TO 06.03.2022/0600 UTC



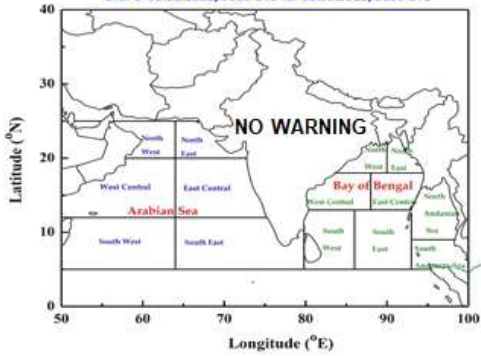
DAY-3: 06.03.2022/0600 UTC TO 07.03.2022/0600 UTC








DAY-4: 07.03.2022/0600 UTC TO 08.03.2022/0600 UTC



DAY-5: 08.03.2022/0600 UTC TO 09.03.2022/0600 UTC



### AREA UNDER FISHERMEN WARNING

-  40-50 KMPH GUSTING TO 60 KMPH (STRONG WIND)
-  40-50 KMPH GUSTING TO 60 KMPH (SQUALLY WEATHER)
-  45-55 KMPH GUSTING TO 65 KMPH
-  50-60 KMPH GUSTING TO 80 KMPH
-  70-80 KMPH GUSTING TO 90 KMPH

## **Expected impact & action suggested due to very heavy rainfall over north coastal Tamilnadu-Puducherry-Karaikal on 06<sup>th</sup> & 07<sup>th</sup> March, 2022.**

### **Impact Expected**

- Localized Flooding of roads, inundation and 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)

### **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.

<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)



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**