



Government of India
Ministry of Earth Sciences
India Meteorological Department

Press Release
Date: 04th 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 4th 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 5th 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:

Date/Time(IST)	Position (Lat. °N/ long. °E)	Maximum sustained surface wind speed (Kmph)	Category of cyclonic disturbance
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 a few places is likely over coastal Tamil Nadu, Puducherry & Karaikal, south coastal Andhra Pradesh and Rayalaseema on 04th 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 05th 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 06th 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 07th 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 06th 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 4th to 6th 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 6th 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 05th March, 2022.
- Under the influence of above systems:
 - ✓ Isolated light rainfall/snowfall with isolated **thunderstorm/lightning** very likely over Western Himalayan Region on 04th & 05th 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 06th & 07th March, 2022.
 - ✓ **Isolated heavy rainfall is also very likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad on 6th March 2022.**

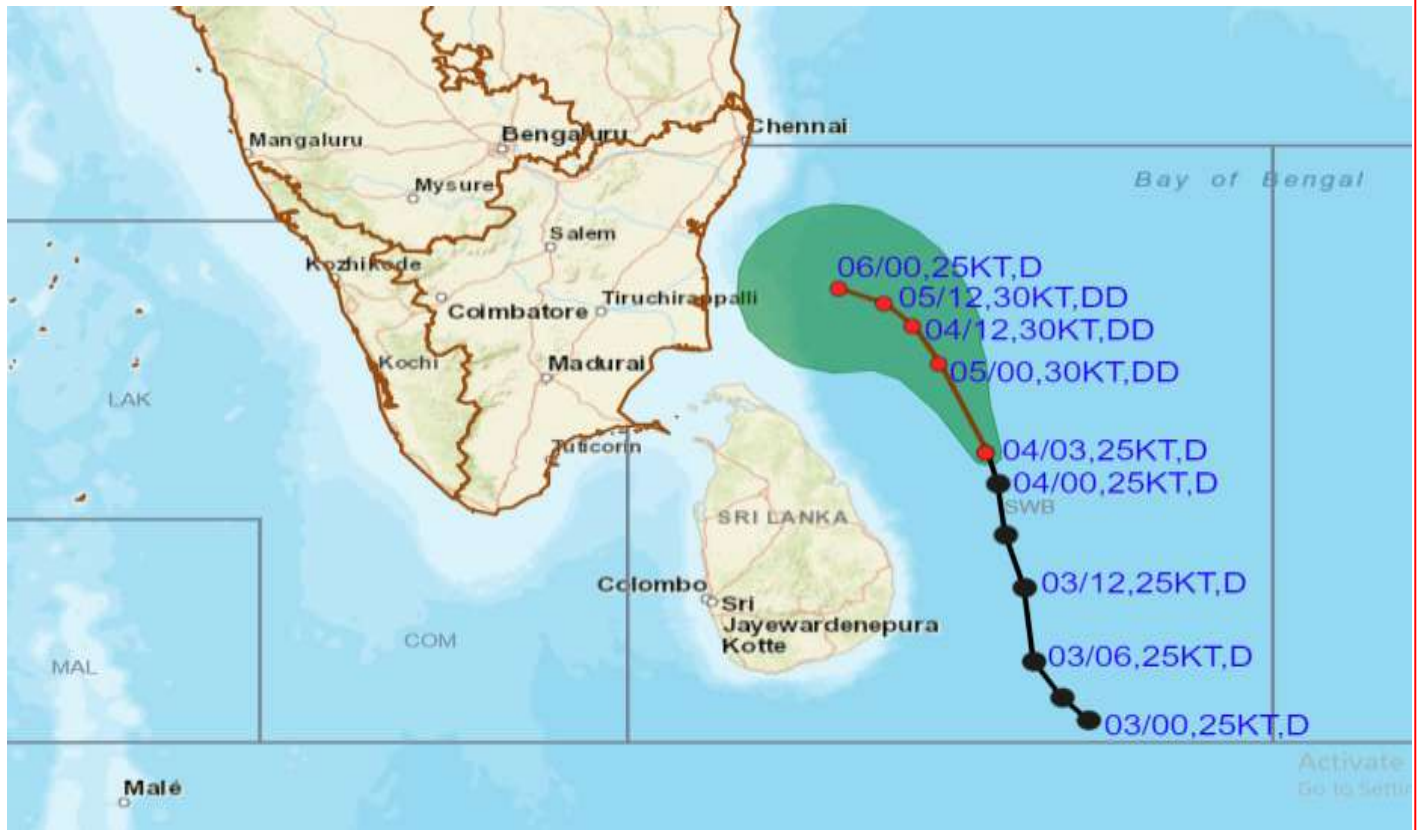
- ✓ Isolated light rainfall very likely over Punjab and Haryana-Chandigarh on 06th & 07th and over Rajasthan, West Madhya Pradesh and Gujarat Region on 07th & 08th March, 2022.
- ✓ **Strong surface Winds (speed 25-35 kmph)** very likely to prevail over Haryana-Chandigarh-Delhi & Rajasthan on 04th March and over most parts of plains of northwest India on 05th 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 09th & 10th March, 2022.

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 SOUTHWEST BAY OF BENGAL BASED ON 0300 UTC OF 4th 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

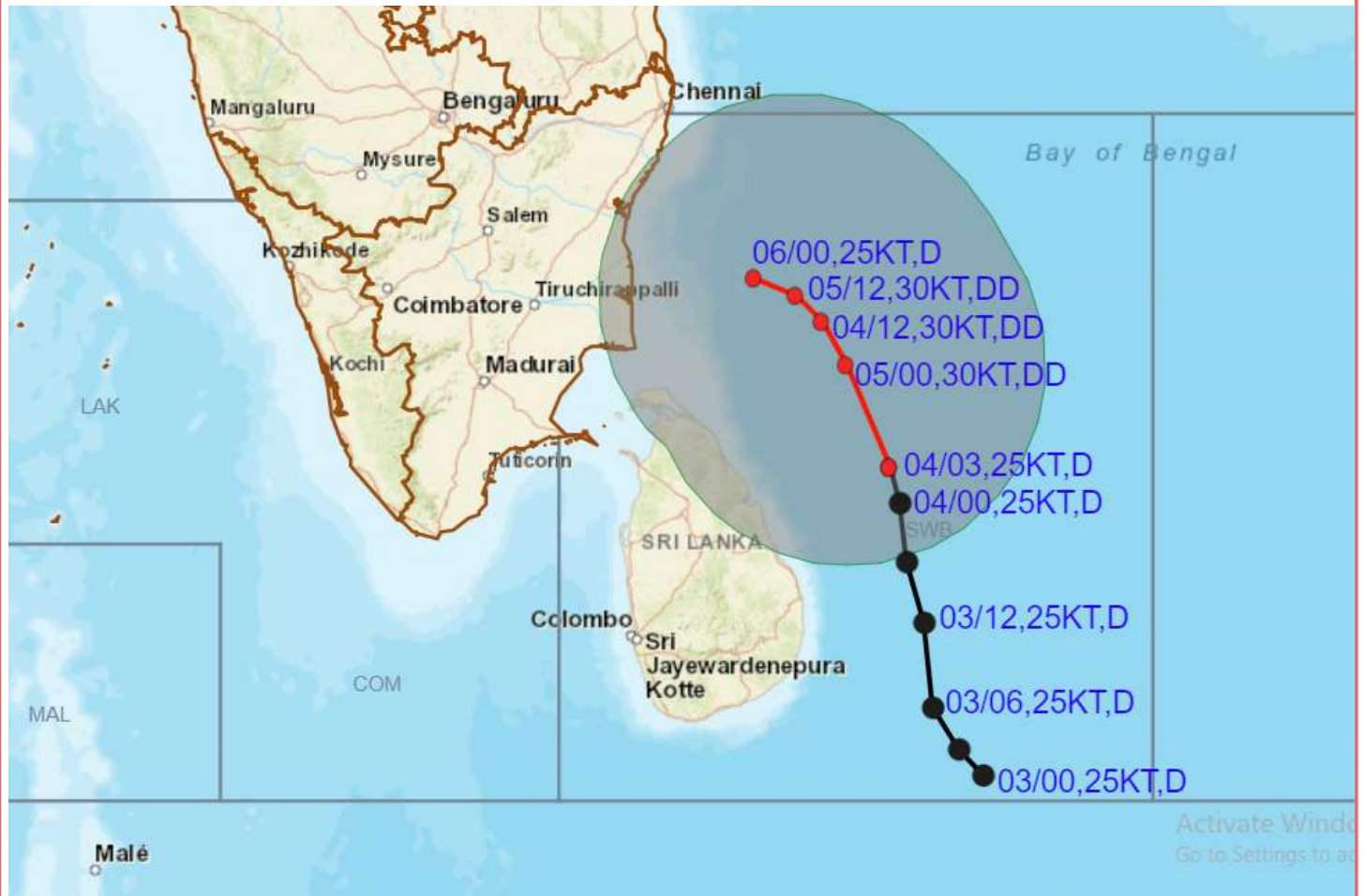


DATE/TIME IN UTC
 IST=UTC + 0530
 L: LOW PRESSURE AREA
 WML: WELL MARKED LOW PRESSURE AREA
 D: DEPRESSION (17-27 KT)
 DD: DEEP DEPRESSION (28-33 KT)
 CS: CYCLONIC STORM (34-47 KT)
 SCS: SEVERE CYCLONIC STORM (48-63KT)
 VSCS: VERY SEVERE CYCLONIC STORM (64-89 KT)
 ESCS: EXTREMELY SEVERE CYCLONIC STORM (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 4th MARCH, 2022



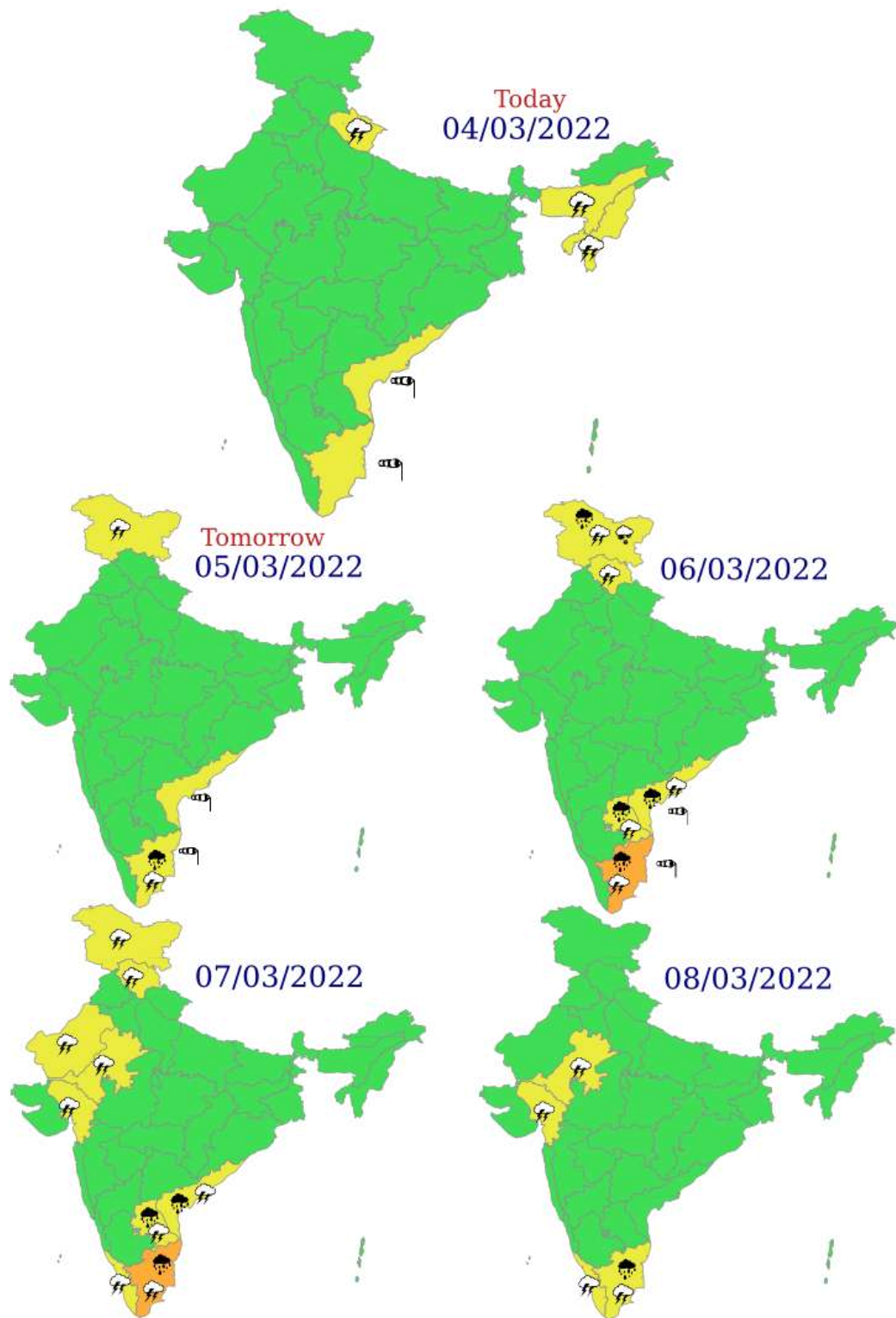
DATE/TIME IN UTC
 IST=UTC + 0530
 L: LOW PRESSURE AREA
 WML: WELL MARKED LOW PRESSURE AREA
 D: DEPRESSION (17-27 KT)
 DD: DEEP DEPRESSION (28-33 KT)
 CS: CYCLONIC STORM (34-47 KT)
 SCS: SEVERE CYCLONIC STORM (48-63KT)
 VS CS: VERY SEVERE CYCLONIC STORM (64-89 KT)
 ESCS: EXTREMELY SEVERE CYCLONIC STORM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

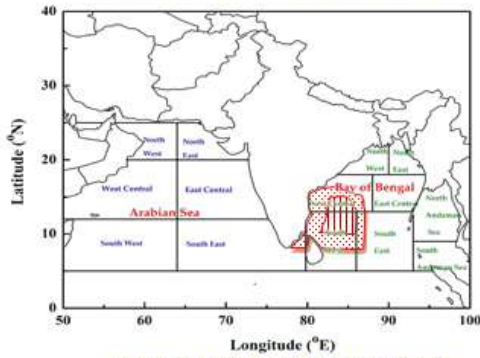
 Heavy Rain

 Strong Winds

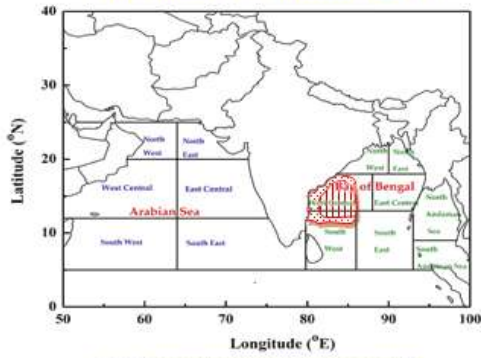
Fishermen Warning for North Indian Ocean

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

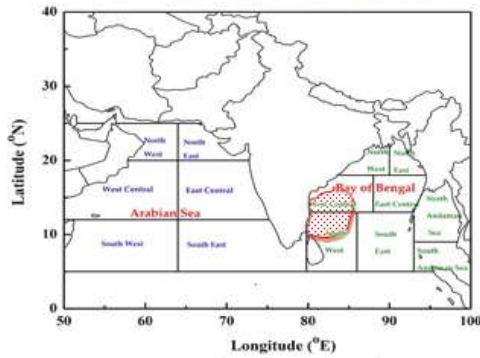
DAY-1: 04.03.2022/0600 UTC TO 05.03.2022/0600 UTC



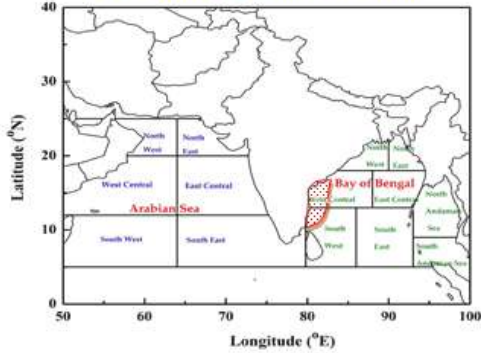
DAY-2: 05.03.2022/0600 UTC TO 06.03.2022/0600 UTC



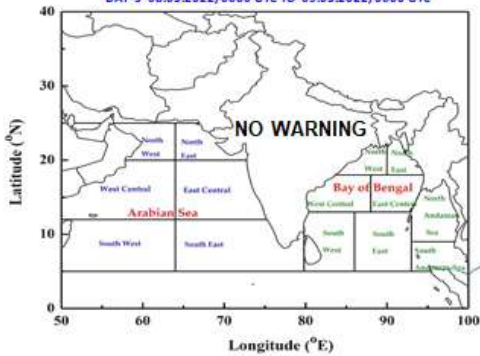
DAY-3: 06.03.2022/0600 UTC TO 07.03.2022/0600 UTC








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 06th & 07th 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.

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