



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

**Press Release**  
**Date: 10<sup>th</sup> May, 2022**  
**Time of Issue: 1300 hrs IST**

**Subject:**

- i) Severe Cyclonic Storm 'ASANI' over Westcentral & adjoining southwest Bay of Bengal**
- ii) Heat wave spells over Northwest & Central India during next 5 days**

**Weather observed during past 24 hours:**

- ✓ **Maximum Temperatures** (as on 09/05/2022) were **42-45°C** over most parts of Vidarbha, West Madhya Pradesh, Rajasthan; in some parts of Gujarat state and Marathwada and **40-42°C** over most parts of East Madhya Pradesh; in some parts of south Haryana & Rayalaseema and in isolated pockets of Chhattisgarh & North Interior Karnataka.
- ✓ **Heat Wave conditions observed** in some parts of West Rajasthan and in isolated pockets over West Madhya Pradesh and Vidarbha.
- ✓ **Chief amount of rainfall (in cm): Odisha:** Cuttack: Mahanga-10, Naraj-9, Deogarh: Barkote-7, Bhadrak: Bhadrak, Bhandari Pokhari-7 each; **Assam:** B. P. Ghat-9, Sonari-7, **Manipur:** Bishnupur-10, **Gangetic west Bengal:** Kolkata, M O salt Lake-6; Haldia-4; Canning-3.
- ✓ Isolated **heavy rainfall** observed over Odisha, Manipur and Assam.

**Maximum Temperature forecast:**

- ✓ Rise in maximum temperatures by 2-3°C very likely over many parts of Punjab, Haryana, Chandigarh & Delhi, Rajasthan and Central India during next 3 days and no significant change thereafter.
- ✓ No significant change in maximum temperatures very likely over Gujarat during next 2 days and fall by 2-3°C thereafter.
- ✓ No significant change in maximum temperatures very likely over rest parts of the country.

**Heat wave warnings:**

- ✓ Heat Wave conditions at many places with **severe heat wave conditions at isolated places** very likely over West Rajasthan during 10<sup>th</sup> to 12<sup>th</sup> and heat wave conditions at isolated places on 13<sup>th</sup> & 14<sup>th</sup> May, 2022.
- ✓ Heat Wave conditions at isolated/at a few places very likely over East Rajasthan and Madhya Pradesh during 10<sup>th</sup> to 14<sup>th</sup> May, 2022.
- ✓ Heat Wave conditions at isolated very likely over north Madhya Maharashtra on 10<sup>th</sup> & 11<sup>th</sup>; Vidarbha during 10<sup>th</sup> to 12<sup>th</sup> May; south Haryana-Delhi & south Punjab during 11<sup>th</sup> to 13<sup>th</sup> and over Jammu Division on 11<sup>th</sup> & 12<sup>th</sup> May, 2022.

**Weather System:**

Yesterday's **severe cyclonic storm 'Asani'** (pronounced as **Asani**) over Westcentral & adjoining south Bay of Bengal moved nearly west-northwestwards and lay centred at 0830 hours IST of today, the 10<sup>th</sup> May, over Westcentral & adjoining southwest Bay of Bengal, near latitude 15.0°N and longitude 83.7°E, 260 km southeast of Kakinada (Andhra Pradesh), 300 km south of Visakhapatnam (Andhra Pradesh), 490 km south-southwest of Gopalpur (Odisha) and 570 km south-southwest of Puri (Odisha).

It is very likely to move nearly northwestwards till 10th May night and reach Westcentral Bay of Bengal off North Andhra Pradesh coast. Thereafter, it is very likely to recurve north-northeastwards and move towards Northwest Bay of Bengal off North Andhra Pradesh and Odisha coasts. It is likely to weaken gradually into a Cyclonic Storm during next 24 hours.

### **Warnings associated with Severe Cyclonic Storm 'Asani':**

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

**10th May:** Light to moderate rainfall at many places with **heavy to very heavy rainfall** at a few places with isolated **extremely heavy falls** is likely over north coastal Andhra Pradesh and rainfall at a few places with **heavy rainfall** at isolated places over coastal Odisha from 10th night.

**11th May:** Light to moderate rainfall at most places with **heavy to very heavy rainfall** at a few places with isolated **extremely heavy falls** is likely over north coastal Andhra Pradesh and **heavy to very heavy rainfall** at isolated places is likely over coastal Odisha with heavy rainfall at isolated places over adjoining coastal West Bengal.

**12th May:** Light to moderate rainfall likely at a few places with heavy rainfall at isolated places is likely over coastal areas of Odisha and West Bengal.

#### **(ii) Wind warning**

- Gale wind speed reaching 100-110 kmph gusting to 120 kmph is prevailing around the system center over Westcentral Bay of Bengal. It would gradually decrease becoming 80-90 kmph gusting to 100 kmph over Westcentral and adjoining Northwest Bay of Bengal from midnight of 10<sup>th</sup> May and become 65-75 Kmph gusting to 85 Kmph from evening of 11<sup>th</sup> May over the same region. Further, it would decrease to 55- 65 Kmph gusting to 75 Kmph over northwest & adjoining Westcentral Bay of Bengal from morning of 12<sup>th</sup> May.
- Squally wind speed reaching 40-50 kmph gusting to 60 kmph is prevailing along and off Andhra Pradesh coast. It is likely to increase to 55-65 Kmph gusting to 75 Kmph from early hours of 11<sup>th</sup> May for subsequent 24 hours.
- Squally wind speed reaching 40-50 kmph gusting to 60 kmph is likely to continue along & off Odisha coast during 10<sup>th</sup> to 12<sup>th</sup> May and along & off West Bengal coast during 11<sup>th</sup> to 12<sup>th</sup> May evening.

#### **(iii) Sea condition**

Sea condition is likely to be Very High over Westcentral Bay of Bengal till midnight of today, the 10<sup>th</sup> May. It would become high over northwest & adjoining westcentral Bay of Bengal on 11<sup>th</sup> May and very rough to rough over the same region on 12<sup>th</sup> May.

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

- Total suspension of fishing operations over westcentral Bay of Bengal during 10<sup>th</sup> to 11<sup>th</sup> and over northwest Bay of Bengal 10 to 12<sup>th</sup> May.
- Fishermen are advised not to venture into westcentral Bay of Bengal during 10<sup>th</sup> to 11<sup>th</sup> May and into Northwest Bay of Bengal during 10<sup>th</sup> to 12<sup>th</sup> May.
- Fishermen out at sea are advised to return to coast.

#### **(v) Advisory for offshore activities:**

- Regulate offshore operations till 12<sup>th</sup> May.

### Rainfall/thunderstorm Forecast & Warnings:

- Due to strong southwesterly winds from Bay of Bengal at lower tropospheric levels;
  - ✓ Fairly widespread to widespread light/moderate rainfall with thunderstorm/lightning/gusty winds very likely over Northeast India during next 5 days.
  - ✓ Isolated **heavy falls** very likely over Assam-Meghalaya on 10<sup>th</sup>; over Arunachal Pradesh during 13<sup>th</sup>-14<sup>th</sup> & and over Nagaland-Manipur-Mizoram-Tripura during 10<sup>th</sup>-14<sup>th</sup> May.
  - ✓ Isolated **heavy to very heavy rainfall** also likely over Assam-Meghalaya during 11<sup>th</sup>-13<sup>th</sup> May, 2022.
- Scattered to fairly widespread light/moderate rainfall very likely over Kerala-Mahe, Lakshadweep, Coastal Andhra Pradesh and Coastal & South Interior Karnataka and isolated to scattered rainfall activity over Telangana, Rayalaseema, North Interior Karnataka & Tamilnadu, Puducherry & Karaikal during next 5 days. Isolated thunderstorm/lightning/gusty winds over the region during next 2 days. Isolated **heavy rainfall** likely over Tamilnadu & South Interior Karnataka on 10<sup>th</sup> May and over Telangana on 11<sup>th</sup> May.



**FORECAST TRACK AND INTENSITY OF SEVERE CYCLONIC STORM 'ASANI' ALONGWITH CONE OF UNCERTAINTY OVER WESTCENTRAL BAY OF BENGAL BASED ON 0300 UTC OF 10<sup>TH</sup> MAY 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

Forecast Date and Time	Lead Period	Forecast distance (km) and direction of the centre from nearest 5 coastal stations						
		Lat	Lon	Station 1	Station 2	Station 3	Station 4	Station 5
10.05.22/0300	0	15.0	83.7	NARSAPUR (267,SE)	KAKINADA (268,SE)	TUNI (289,5SE)	MACHILIPATNAM/ FRANCHPET (304,ESE)	NIDADAVOLE (305,SE)
11.05.22/0000	21	16.8	82.9	TUNI (72,5SE)	KAKINADA (73,ESE)	VISHAKHAPATNAM (113,5SW)	NARSAPUR (134,ENE)	NIDADAVOLE (140,E)
12.05.22/0000	45	18.3	84.7	KALINGAPATAM (60,E)	GOPALPUR (109,S)	VISHAKHAPATNAM (162,ENE)	PURI (204,SW)	KORAPUT (217,ESE)
	69							

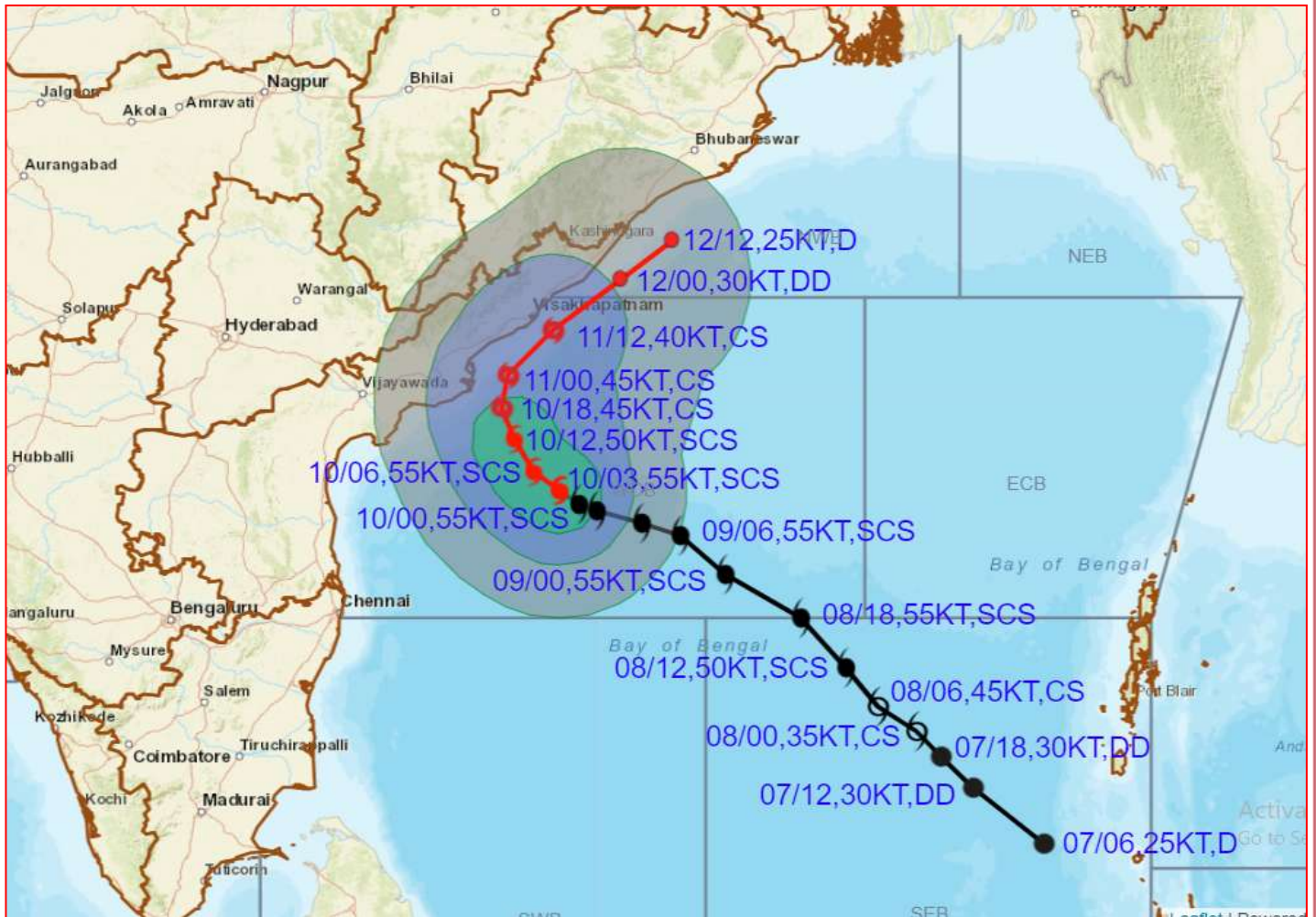
Forecast Date and Time	Lead Period	Forecast distance (km) and direction of the centre from nearest 5 coastal stations						
		Lat	Lon	Station 1	Station 2	Station 3	Station 4	Station 5
10.05.22/0300	0	15.0	83.7	NARSAPUR (267,SE)	KAKINADA (268,SE)	TUNI (289,5SE)	MACHILIPATNAM/ FRANCHPET (304,ESE)	NIDADAVOLE (305,SE)
10.05.22/0600	3	15.3	83.3	NARSAPUR (213,SE)	KAKINADA (216,5SE)	TUNI (242,5SE)	NIDADAVOLE (251,SE)	MACHILIPATNAM/ FRANCHPET (251,ESE)
10.05.22/1200	9	15.8	83.0	KAKINADA (152,5SE)	NARSAPUR (156,ESE)	TUNI (179,5SE)	NIDADAVOLE (190,SE)	MACHILIPATNAM/ FRANCHPET (203,ESE)
10.05.22/1800	15	16.3	82.8	KAKINADA (94,SE)	NARSAPUR (118,E)	TUNI (120,5SE)	NIDADAVOLE (143,ESE)	VISHAKHAPATNAM (166,5SW)
11.05.22/0000	21	16.8	82.9	TUNI (72,5SE)	KAKINADA (73,ESE)	VISHAKHAPATNAM (113,5SW)	NARSAPUR (134,ENE)	NIDADAVOLE (140,E)
11.05.22/1200	33	17.5	83.6	VISHAKHAPATNAM (40,SE)	KALINGAPATAM (109,5SW)	TUNI (113,E)	KAKINADA (158,ENE)	KORAPUT (174,5SE)
12.05.22/0000	45	18.3	84.7	KALINGAPATAM (60,E)	GOPALPUR (109,S)	VISHAKHAPATNAM (162,ENE)	PURI (204,SW)	KORAPUT (217,ESE)
12.05.22/1200	57	18.9	85.5	GOPALPUR (77,ESE)	PURI (106,5SW)	BHUBANESHWAR (154,5SW)	KALINGAPATAM (157,ENE)	CUTTACK (180,5SW)

**N : NORTH NNE : NORTH-NORTHEAST NE : NORTHEAST ENE : EAST-NORTHEAST E : EAST ESE : EAST-SOUTHEAST 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**





**FORECAST TRACK AND INTENSITY ALONGWITH QUADRANT WIND DISTRIBUTION SEVERE CYCLONIC STORM 'ASANI' OVER WESTCENTRAL BAY OF BENGAL BASED ON 0300 UTC OF 10<sup>TH</sup> MAY 2022**



DATE/TIME IN UTC

IST=UTC + 0530

L: LOW PRESSURE AREA

WML: WELL MARKED LOW PRESSURE AREA

D: DEPRESSION (17-27 KT)

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SuCS: SUPER CYCLONIC STORM (≥20 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)

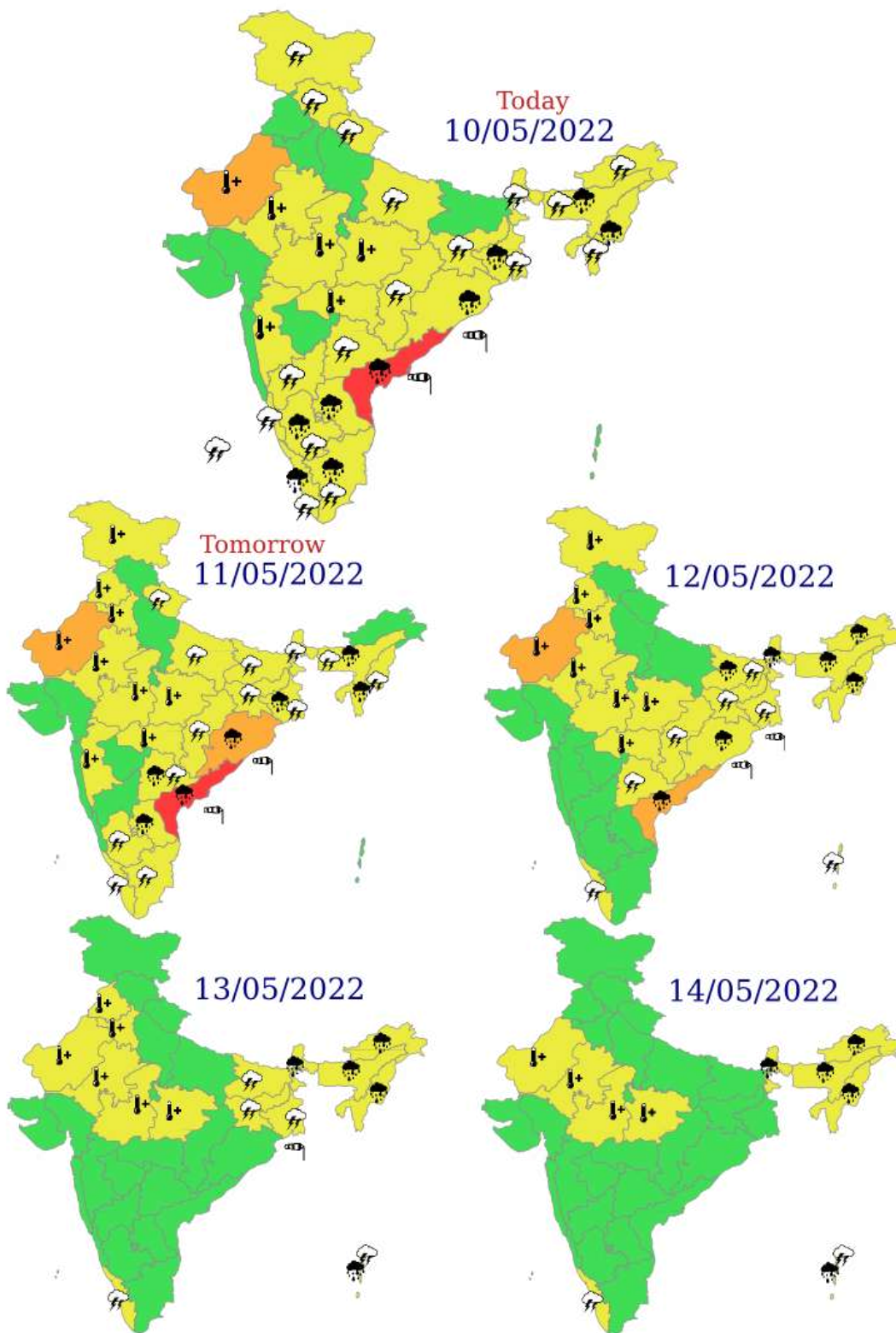
■ 34-49 KT (62-91 KMPH)

■ 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



**WARNING**

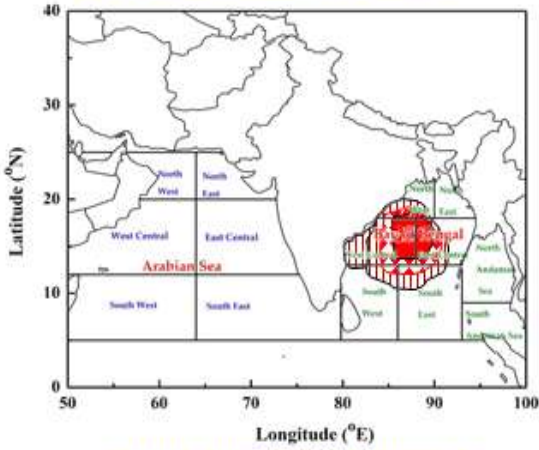
WARNING (TAKE ACTION)
ALERT (BE PREPARED)
WATCH (BE UPDATED)
NO WARNING (NO ACTION)

-  Heavy Rain
-  Strong Winds

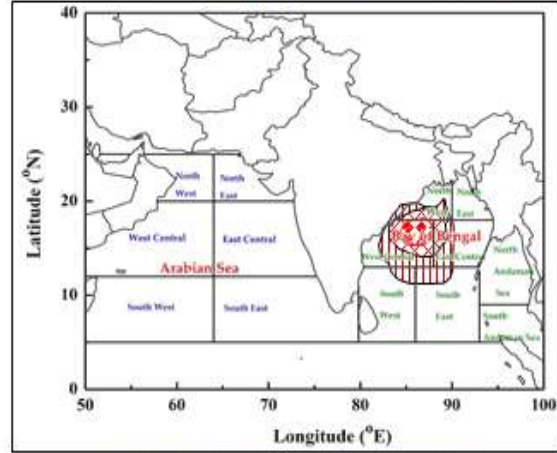


## INDIA METEOROLOGICAL DEPARTMENT FISHERMAN WARNING FOR BAY OF BENGAL AND ARABIAN SEA

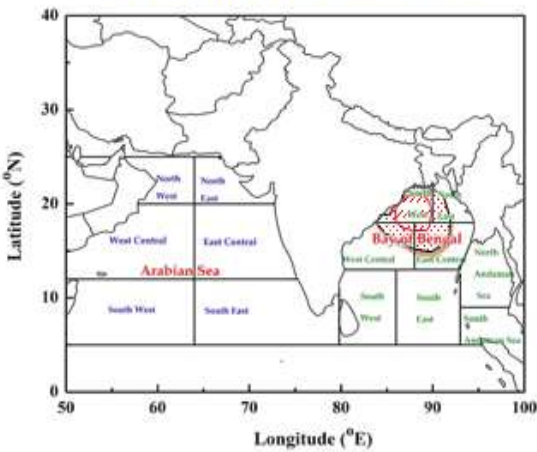
DAY-1: 10.05.2022/0000 UTC TO 11.05.2022/0000 UTC



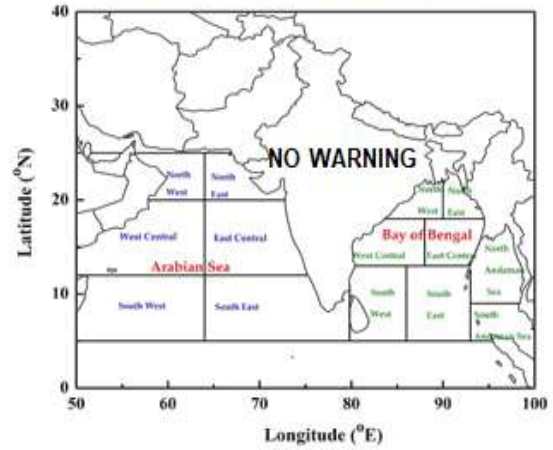
DAY-2: 11.05.2022/0000 UTC TO 12.05.2022/0000 UTC



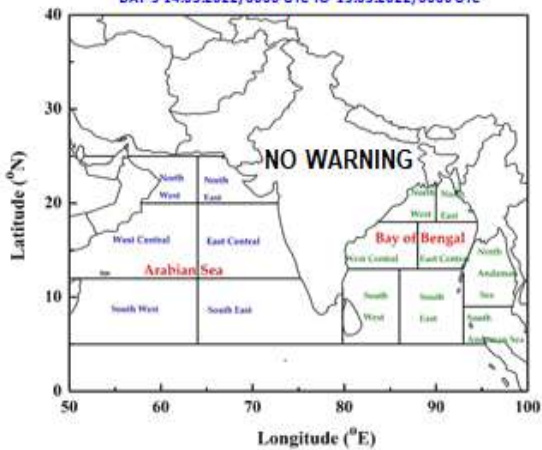
DAY-3: 12.05.2022/0000 UTC TO 13.05.2022/0000 UTC



DAY-4: 13.05.2022/0000 UTC TO 14.05.2022/0000 UTC



DAY-5: 14.05.2022/0000 UTC TO 15.05.2022/0000 UTC



### AREA UNDER FISHERMEN WARNING

- 40-50 KMPH GUSTING TO 60 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
- 75-85 KMPH GUSTING TO 95 KMPH
- 90-100 KMPH GUSTING TO 110 KMPH

### Fishermen Warning Graphics

## 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



Heat Wave