



Government of India
Ministry of Earth Sciences
India Meteorological Department

Press Release
Date: 11th May, 2022
Time of Issue: 1300 hrs IST

Subject:

- i) Cyclonic Storm 'ASANI' over Westcentral Bay of Bengal - CYCLONE WARNING for Andhra Pradesh coast.**
- ii) Heat wave spells over Northwest & Central India during next 5 days**

Weather observed during past 24 hours:

- ✓ **Maximum Temperatures** (as on 10/05/2022) were **43-46°C** over most parts of Vidarbha, West Madhya Pradesh, West Rajasthan; in many parts of East Rajasthan; in some parts of Gujarat state, Marathwada & Madhya Maharashtra and **40-42°C** over most parts of East Madhya Pradesh; in many parts of Punjab; in some parts of south Haryana, southern parts of East Uttar Pradesh & Rayalaseema and in isolated pockets of Chhattisgarh, Jharkhand & 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): Kerala-Mahe: Kottoyam:** Poonjar-15, Kanjirapalli-9; Kozha-7; **Idukki:** Thodapuzha-11, Idukki-10; **Ernakulam:** Perumbur-Neryamanglam-9, Piravam & Muvittupuzha-8 each, Palluruthy-7; **Kozhikode:** Kozhikode, Vadakkara & Quilandi-8 each; **Thrissur:** Chelakudi-8, Chimoni-7; **Rayalaseema: YSR:** Duvvur, Chepad & Cuddapah-11 each; **Assam-Meghalaya:** Karimganj: Karimganj-8; **Coastal Andhra Pradesh: Vishakhapatnam:** Narsipattnam-7; **Nellore:** Kavali-7, **Parkasam:** Kandukur-7; **Guntur:** Bapatla-7, **Vizianagram:** Mentada, Pusapatregala & Gantyada-7 each; **Odisha:** Keonjargarh: Anandpur & Ghasipura-7 each.
- ✓ Isolated **heavy to very heavy rainfall** observed at isolated places over Kerala and **heavy rainfall** at isolated places over Rayalaseema, Coastal Andhra Pradesh, Assam-Meghalaya and Odisha.

Maximum Temperature forecast:

- ✓ No significant change in maximum temperatures very likely over northwest & central India and Maharashtra during next 5 days.
- ✓ No significant change in maximum temperatures very likely over East India during next 2 days and rise by 2-4°C thereafter.
- ✓ No significant change in maximum temperatures very likely over Gujarat during next 24 hours and fall by 2-3°C thereafter.

Heat wave warnings:

- ✓ **Heat Wave conditions** at most places with **severe heat wave conditions at isolated places** very likely over West Rajasthan during 12th to 14th and heat wave conditions at most places on 11th & 15th May, 2022.
- ✓ Heat Wave conditions at isolated/at a few places very likely over East Rajasthan & West Madhya Pradesh during 11th to 15th May, 2022.

- ✓ Heat Wave conditions at isolated very likely over north Madhya Maharashtra on 11th; over West Uttar Pradesh on 14th & 15th; over south Haryana-Delhi, south Punjab during 12th-15th; East Madhya Pradesh & Vidarbha during 13th to 15th 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 11th May, over Westcentral Bay of Bengal as **Cyclonic Storm** and moved north-northeastwards with a speed of 6 kmph during past 06 hours, and lay centered at 0830 hours IST of 11th May, over same region near latitude 15.9°N and longitude 81.4°E, about 40 km southeast of Machilipatnam (Andhra Pradesh), 140 km southwest of Kakinada (Andhra Pradesh), 280 km southwest of Visakhapatnam (Andhra Pradesh), 520 km southwest of Gopalpur (Odisha) and 630 km southwest of Puri (Odisha).

It is very likely to move north-northeastwards along Narsapur, Yanam, Kakinada, Tuni & Visakhapatnam coasts till evening of today and emerge into westcentral Bay of Bengal off North Andhra Pradesh coasts by today night. It is likely to weaken further into a depression by 12th May morning.

Warnings associated with Severe Cyclonic Storm 'Asani':

(i) Rainfall (warning graphics enclosed)

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 coastal Andhra Pradesh and **heavy rainfall** at isolated places is likely over south coastal Odisha.

12th May: Light to moderate rainfall likely at many places with **heavy rainfall** at isolated places is likely over north coastal Andhra Pradesh.

(ii) Wind warning

- Gale wind speed reaching 75-85 kmph gusting to 95 kmph is prevailing around the system center over Westcentral Bay of Bengal. It would gradually decrease becoming 65-75 Kmph gusting to 85 Kmph by today afternoon over the same region. Further, it would decrease to 45-55 Kmph gusting to 65 Kmph over Westcentral Bay of Bengal on 12th May morning.
- Gale wind speed reaching 70-80 kmph gusting to 90 kmph likely to prevail along & off Krishna, East & West Godavari, Yanam of Puducherry UT and Visakhapatnam districts and 50-60 kmph gusting to 70 kmph along & off adjoining districts of Coastal Andhra Pradesh during forenoon to afternoon of today. It would then decrease gradually to 45-55 Kmph gusting to 65 Kmph over the same region by 12th May morning.
- Squally wind speed reaching 40-50 kmph gusting to 60 kmph is likely to continue along & off Odisha and West Bengal coasts on 11th to 12th May.

(iii) Sea condition

Sea condition is likely to continue to be high over westcentral & adjoining northwest Bay of Bengal till evening of 11th May and very rough to rough over the same region thereafter till 12th May.

(iv) Storm Surge warning (Graphics enclosed)

Storm surge of height about 0.5 m above astronomical tide is likely to inundate low lying areas of Krishna, East & West Godavari districts of Andhra Pradesh and Yanam of UT of Puducherry.

(iv) Fishermen Warning (Graphics enclosed)

- Total suspension of fishing operations over westcentral Bay of Bengal on 11th and over northwest Bay of Bengal till 12th May.

- Fishermen are advised not to venture into westcentral Bay of Bengal along and off Andhra Pradesh and Odisha coasts on 11th May and into Northwest Bay of Bengal till 12th May.
- Fishermen out at sea are advised to return to coast.

(v) Advisory for offshore activities

- Regulate offshore operations till 12th May.

(vi) Damage expected: (for Krishna, East & West Godavari, Yanam of Puducherry UT and Vishakhapatnam districts of Andhra Pradesh) during next 12 hours

- Damage to thatched huts.
- Minor damage to power and communication lines due to breaking of tree branches.
- Major damage to Kutcha and minor damage to Pucca roads.
- Damage to paddy and other standing crops, banana, papaya trees and orchards
- Inundation of low lying areas

(vii) Action Suggested: (for Krishna, East & West Godavari, Yanam of Puducherry UT and Vishakhapatnam districts of Andhra Pradesh)

- Stay in safe places
- Check for traffic congestion on your route due to heavy rain 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.

Rainfall/thunderstorm Forecast & Warnings:

- Due to strong southwesterly winds from Bay of Bengal at lower tropospheric levels;
 - ✓ Widespread light/moderate rainfall with thunderstorm/lightning/gusty winds very likely over Northeast India during next 5 days.
 - ✓ Isolated **heavy to very heavy falls** very likely over Assam-Meghalaya during 11th to 15th May, 2022.
 - ✓ Isolated **heavy falls** very likely over Arunachal Pradesh on 12th & 15th and isolated **heavy to very heavy falls** on 13th & 14th May, 2022.
 - ✓ Isolated **heavy falls** very likely over Nagaland-Manipur-Mizoram-Tripura on 11th, 13th & 14th and isolated **heavy to very heavy falls** on 12th May, 2022.
- Fairly widespread light/moderate rainfall with is very likely over Kerala-Mahe & Lakshadweep with isolated heavy falls over Kerala-Mahe during next 5 days.
- Widespread light/moderate rainfall with is very likely over Coastal Andhra Pradesh and Rayalaseema with extremely heavy rainfall over Coastal Andhra Pradesh and heavy to very heavy over Rayalaseema on today and significant decrease in intensity & distribution thereafter.
- Isolated to scattered rainfall activity very likely over Telangana, Coastal & Interior Karnataka & Tamilnadu, Puducherry & Karaikal during next 5 days. Isolated **heavy rainfall** likely over Telangana on 11th May, 2022
- Isolated **thunderstorm/lightning/gusty winds** over Telangana during next 24 hours and over Kerala-Mahe during next 5 days.

For more details refer: https://mausam.imd.gov.in/imd_latest/contents/subdivisionwise-warning.php



FORECAST TRACK AND INTENSITY OF CYCLONIC STORM 'ASANI' ALONGWITH CONE OF UNCERTAINTY OVER WESTCENTRAL BAY OF BENGAL BASED ON 0000 UTC OF 11TH 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)
 VSXS: 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

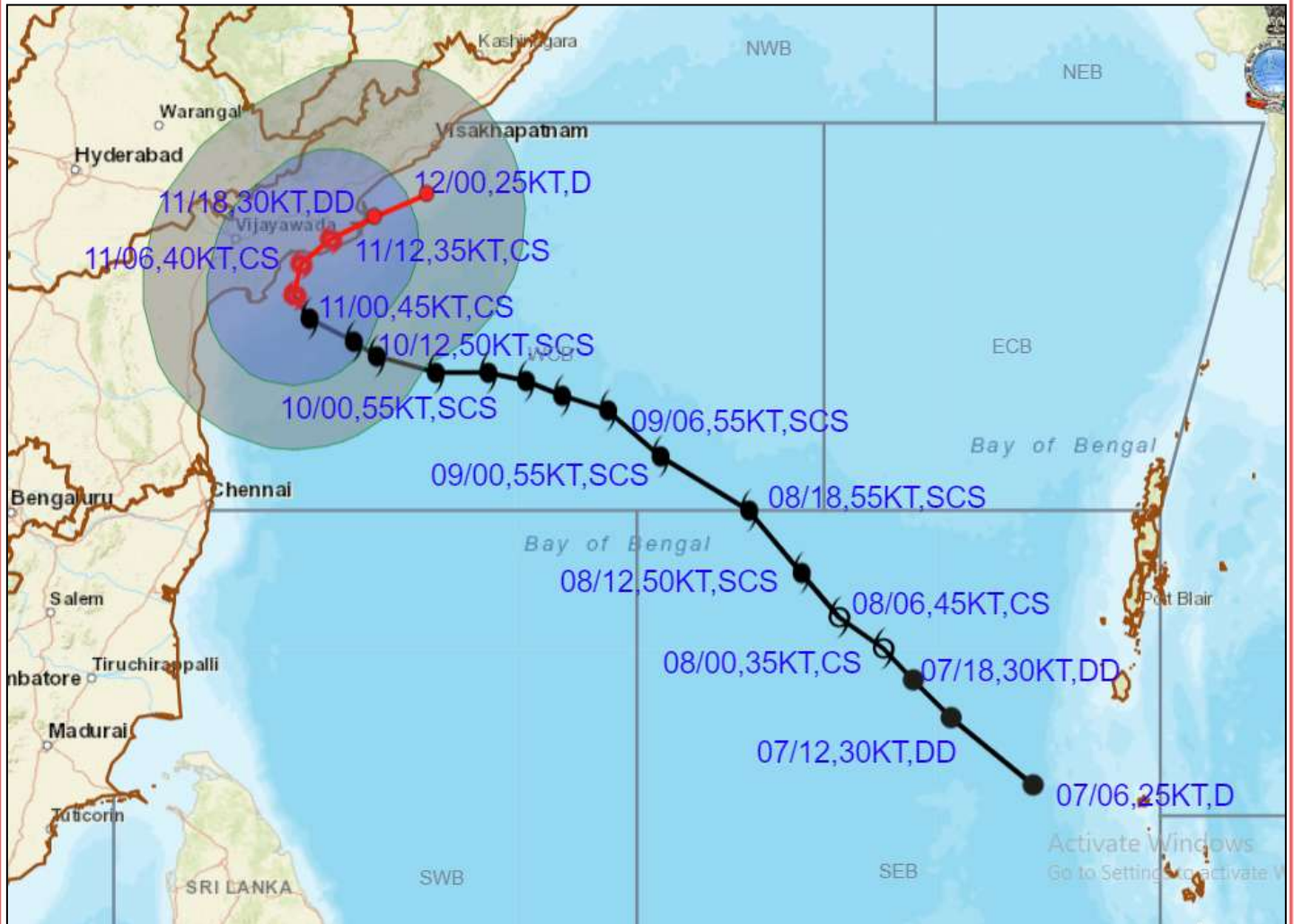
STATIONS	DISTANCE(KM) AND DIRECTION FROM STATIONS	
	12.05.22/0000	
KAKINADA	100,E	
GOPALPUR	300,SW	
VISHAKHAPATNAM	70,S	
PURI	410,SW	

Forecast distance (km) and direction of the centre from nearest 5 coastal stations								
Forecast Date and Time	Lead Period	Lat	Lon	Station 1	Station 2	Station 3	Station 4	Station 5
11.05.22/0000	0	15.8	81.4	MACHILIPATNAM/ FRANCHPET (52,SSE)	NARSAPUR (77,SSW)	BAPATLA (101,E)	VIJAYAWADA /GANNAVARAM (104,SE)	VIJAYAWADA (116,SE)
11.05.22/0600	6	16.2	81.5	NARSAPUR (34,SW)	MACHILIPATNAM/ FRANCHPET (37,E)	NIDADAVOLE (71,S)	VIJAYAWADA /GANNAVARAM (83,ESE)	VIJAYAWADA (101,ESE)
11.05.22/1200	12	16.5	81.9	NARSAPUR (23,ENE)	NIDADAVOLE (50,SE)	KAKINADA (61,SW)	MACHILIPATNAM/ FRANCHPET (87,ENE)	TUNI (117,SW)
11.05.22/1800	18	16.8	82.5	KAKINADA (33,ESE)	TUNI (61,S)	NARSAPUR (95,ENE)	NIDADAVOLE (98,E)	VISHAKHAPATNAM (133,SW)
12.05.22/0000	24	17.1	83.2	VISHAKHAPATNAM (69,S)	TUNI (75,ESE)	KAKINADA (104,E)	KALINGAPATAM (169,SW)	NIDADAVOLE (175,E)

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 CYCLONIC STORM 'ASANI' OVER WESTCENTRAL BAY OF BENGAL BASED ON 0000 UTC OF 11TH 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 (≥ 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)

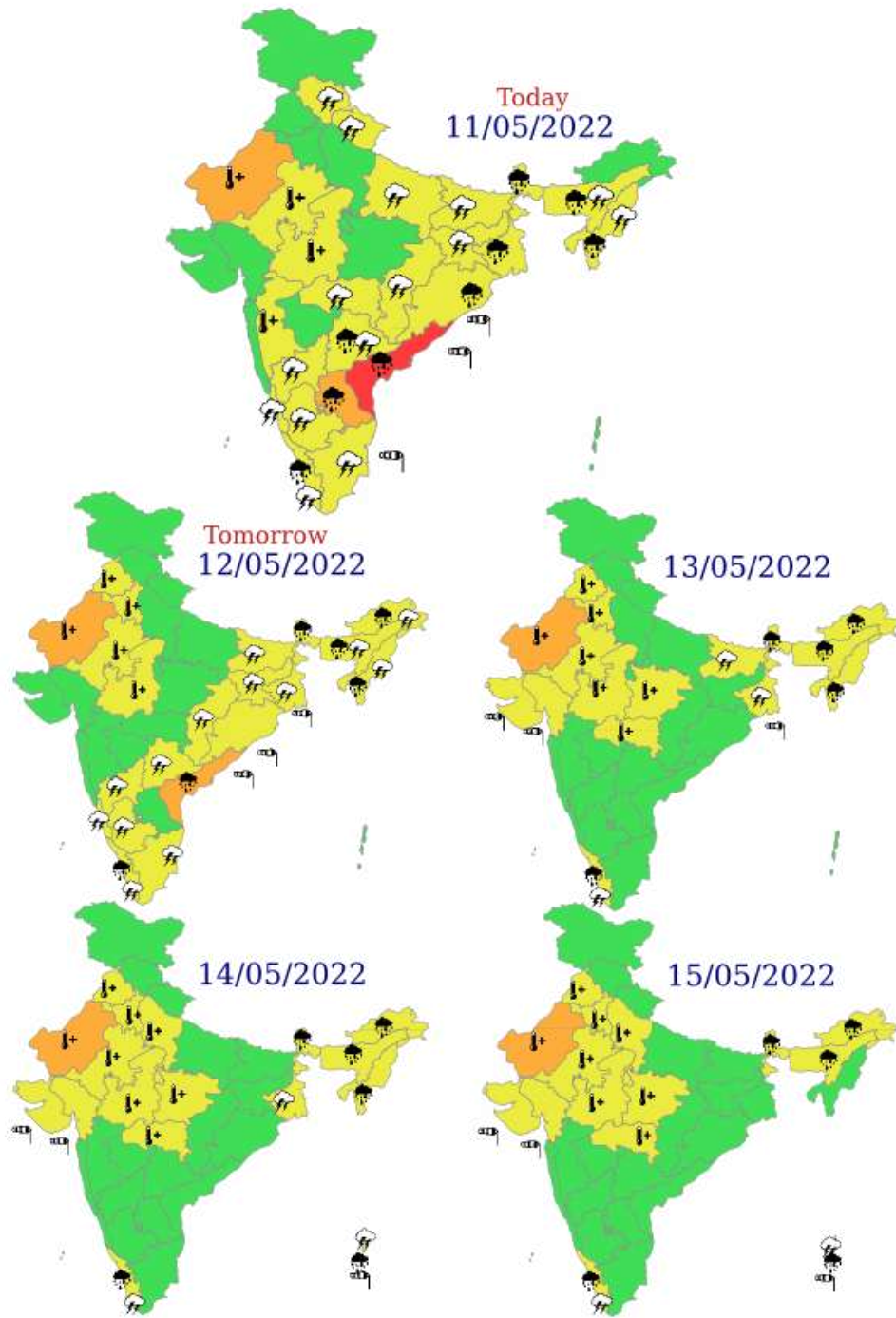
■ 34-49 KT (62-91 KMPH)

■ 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



WARNING

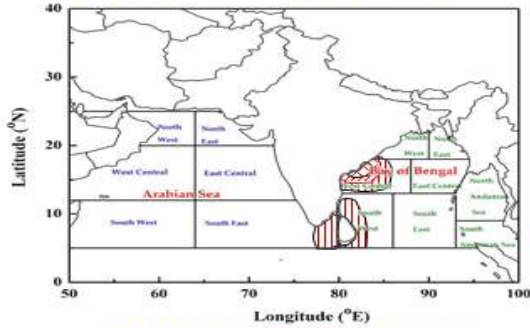
	WARNING (TAKE ACTION)
	ALERT (BE PREPARED)
	WATCH (BE UPDATED)
	NO WARNING (NO ACTION)

Heavy Rain
 Strong Winds

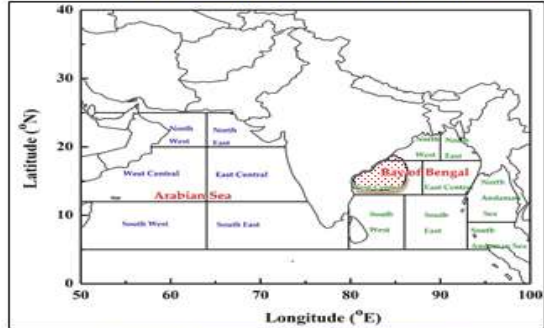
Fishermen Warning Graphics

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

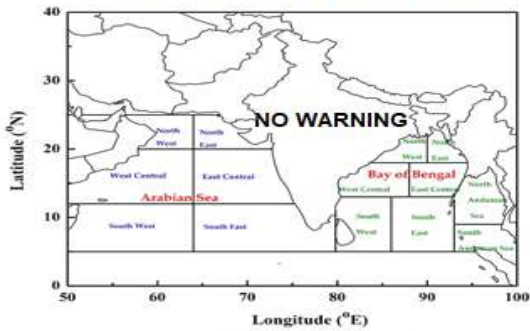
DAY-1: 11.05.2022/0600 UTC TO 12.05.2022/0600 UTC



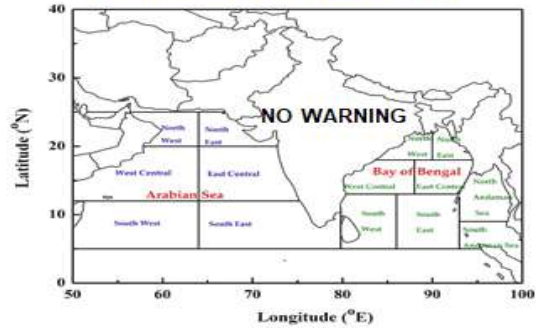
DAY-2: 12.05.2022/0600 UTC TO 13.05.2022/0600 UTC



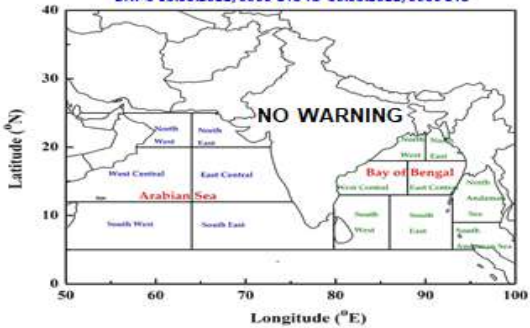
DAY-3: 13.05.2022/0600 UTC TO 14.05.2022/0600 UTC



DAY-4 14.05.2022/0600 UTC TO 15.05.2022/0600 UTC



DAY-5 15.05.2022/0600 UTC TO 16.05.2022/0600 UTC



AREA UNDER FISHERMEN WARNING

-  40-50 KMPH GUSTING TO 60 KMPH (SQUALLY WEATHER)
-  45-55 KMPH GUSTING TO 65 KMPH
-  55-65 KMPH GUSTING TO 75 KMPH
-  65-75 KMPH GUSTING TO 85 KMPH
-  70-80 KMPH GUSTING TO 90 KMPH
-  75-85 KMPH GUSTING TO 95 KMPH
-  90-100 KMPH GUSTING TO 110 KMPH

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)



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

