



**India Meteorological Department  
(Ministry of Earth Sciences)**

HOURLY UPDATE ON CYCLONIC STORM 'ASANI'

**BULLETIN NO. 08**

DATE: 11-05-2022

TIME OF ISSUE: 1930 HRS IST

<b>DATE/TIME (IST) OF OBSERVATION</b>	<b>BASED ON 11-05-2022 (1730 HRS IST)</b>
LOCATION LATITUDE/LONGITUDE	THE <b>CYCLONIC STORM 'ASANI'</b> (PRONOUNCED AS 'ASANI') WEAKENED INTO A DEEP DEPRESSION AND LAY CENTRED AT <b>1730 HRS IST</b> OF TODAY, THE 11 <sup>th</sup> MAY, 2022 OVER WESTCENTRAL BAY OF BENGAL, NEAR LATITUDE 16.3°N AND LONGITUDE 81.3°E, CLOSE TO ANDHRA PRADESH COAST, ABOUT 20 KM NORTHEAST OF MACHILIPATNAM, 50 KM WEST-SOUTHWEST OF NARSAPUR. LATEST OBSERVATIONS INDICATE THAT THE SYSTEM IS CROSSING ANDHRA PRADESH COAST BETWEEN MACHILIPATNAM AND NARSAPUR AS A DEEP DEPRESSION WITH WIND SPEED OF 55-65 GUSTING TO 75 KMPH.
CURRENT INTENSITY NEAR CENTRE	55-65 KMPH GUSTING TO 75 KMPH
PAST MOVEMENT	MOVED NEARLY NORTHWARDS WITH A SPEED OF ABOUT 7KMPH DURING PAST 06 HOURS.
FORECAST MOVEMENT	IT WOULD MOVE NORTH-NORTHEASTWARDS ALONG YANAM, KAKINADA & TUNI COASTS AND EMERGE INTO WESTCENTRAL BAY OF BENGAL OFF NORTH ANDHRA PRADESH COAST AS A WEAKER SYSTEM AROUND TOMORROW NIGHT.
FORECAST INTENSITY	<ul style="list-style-type: none"><li>• LIKELY TO WEAKEN FURTHER INTO A DEPRESSION BY 12TH MAY MORNING.</li><li>• SQUALLY WIND SPEED REACHING 55-65 KMPH GUSTING TO 75 KMPH IS PREVAILING AROUND THE SYSTEM CENTER AND ADJOINING WESTCENTRAL BAY OF BENGAL. IT WOULD GRADUALLY DECREASE BECOMING 45-55 KMPH GUSTING TO 65 KMPH OVER WESTCENTRAL BAY OF BENGAL AND ALONG AND OFF ANDHRA PRADESH COAST BY 12<sup>TH</sup> MAY MORNING.</li></ul>
FORECAST WIND ALONG THE COAST	<ul style="list-style-type: none"><li>• SQUALLY WIND SPEED REACHING 55-65 KMPH GUSTING TO 75 KMPH LIKELY TO PREVAIL ALONG &amp; OFF KRISHNA, EAST &amp; WEST GODAVARI, YANAM OF PUDUCHERRY UT AND VISAKHAPATNAM DISTRICTS IT WOULD THEN DECREASE GRADUALLY TO 45-55 KMPH GUSTING TO 65 KMPH OVER THE SAME REGION BY 12<sup>TH</sup> MAY MORNING. 40-50 KMPH GUSTING TO 60 KMPH LIKELY TO PREVAIL ALONG &amp; OFF ADJOINING DISTRICTS OF COASTAL ANDHRA PRADESH DURING THE SAME PERIOD.</li></ul>

	<ul style="list-style-type: none"> <li>• SQUALLY WIND SPEED REACHING 40-50 KMPH GUSTING TO 60 KMPH IS LIKELY TO CONTINUE ALONG &amp; OFF ODISHA COAST ON 11<sup>TH</sup> TO 12<sup>TH</sup> MAY</li> </ul>
FORECAST RAINFALL	<ul style="list-style-type: none"> <li>• <b>11<sup>th</sup> MAY:</b> LIGHT TO MODERATE RAINFALL AT MOST PLACES WITH <b>HEAVY RAINFALL</b> AT ISOLATED PLACES IS LIKELY OVER COASTAL ANDHRA PRADESH AND <b>LIGHT TO MODERATE RAINFALL</b> AT A FEW PLACES IS LIKELY OVER SOUTH ODISHA.</li> <li>• <b>12<sup>th</sup> MAY:</b> LIGHT TO MODERATE RAINFALL LIKELY AT MANY PLACES OVER COASTAL ANDHRA PRADESH, COASTAL AREAS OF ODISHA AND WEST BENGAL AND <b>HEAVY RAINFALL</b> AT ISOLATED PLACES OVER COASTAL ANDHRA PRADESH.</li> </ul>

SAT : INSAT-3D IMG

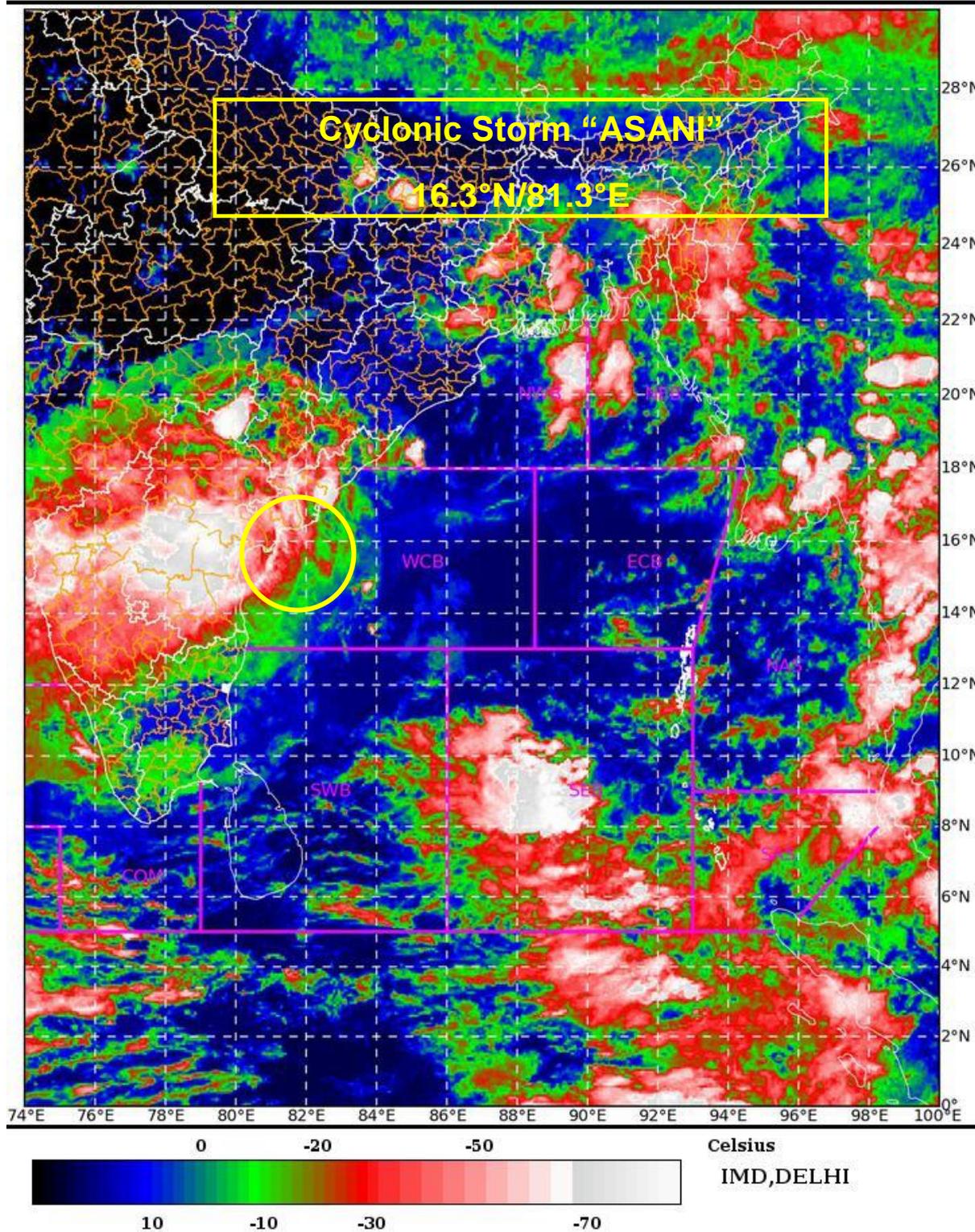
11-05-2022/(1200 to 1226) GMT

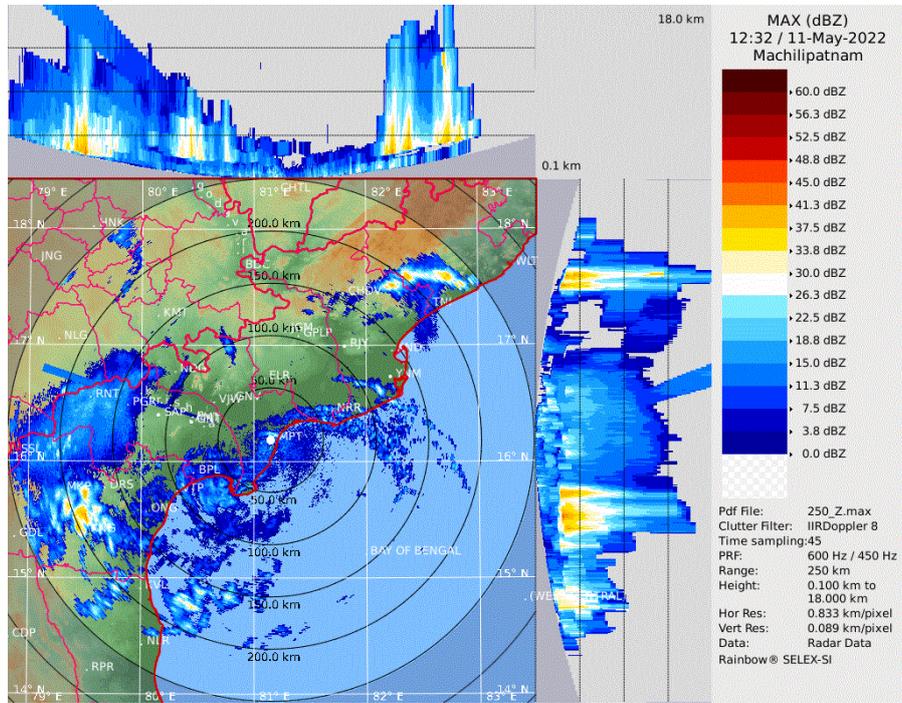
IMG\_TIR1\_TEMP 10.8 um

11-05-2022/(1730 to 1756) IST



L1C Mercator

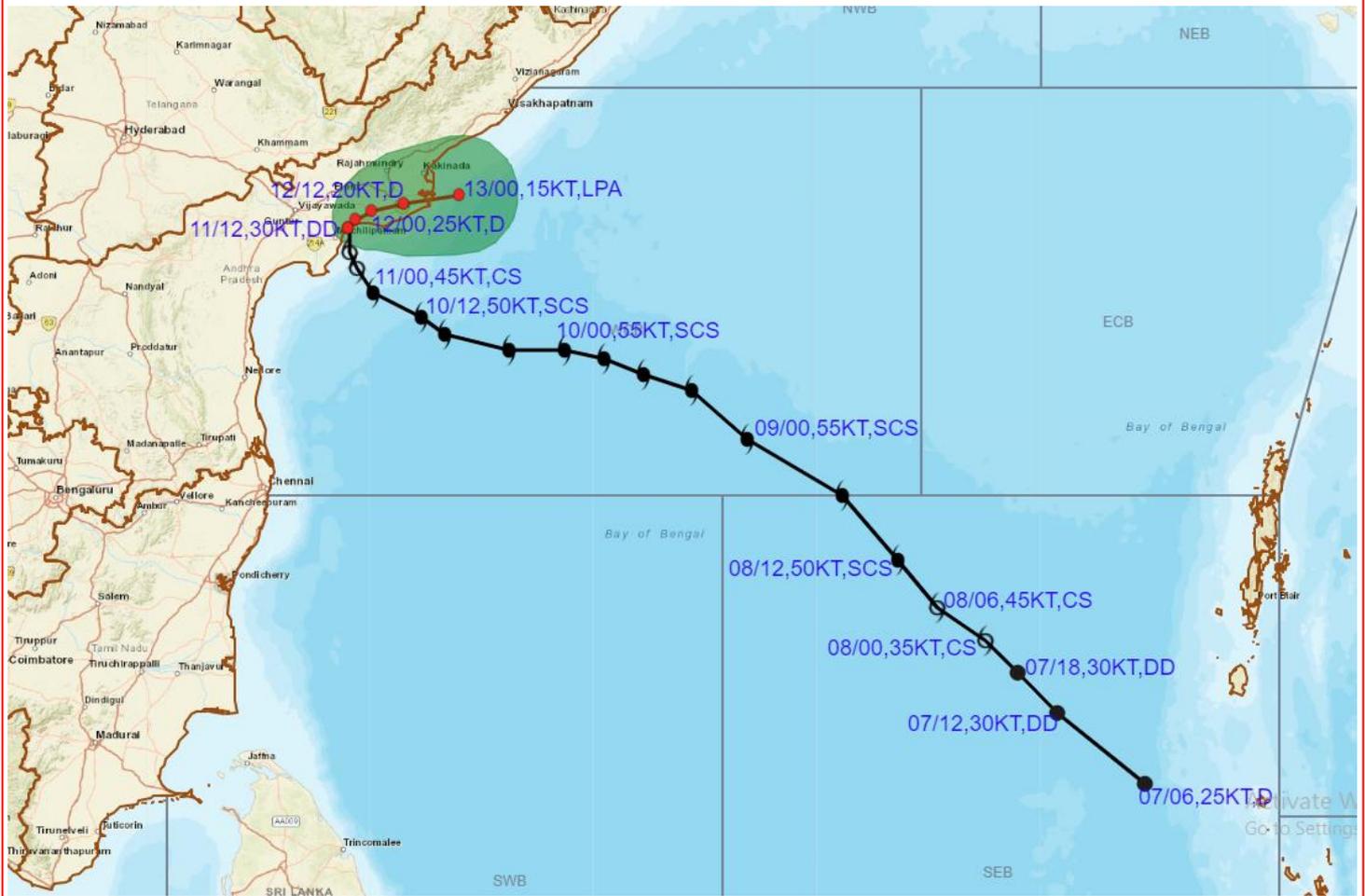




Reflectivity imagery from Doppler weather RADAR Vishakhapatnam based on 1802 hrs IST of 11<sup>th</sup> May 2022.



**FORECAST TRACK AND INTENSITY OF DEEP DEPRESSION (REMNANT OF CYCLONIC STORM 'ASANI') ALONGWITH CONE OF UNCERTAINTY OVER WESTCENTRAL BAY OF BENGAL CLOSED TO ANDHRA PRADESH COAST BASED ON 1200 UTC OF 11<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 (≥ 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	
	12.05.22/1200	
MACHILIPATNAM	100,ENE	
KAKINADA	50,SSW	
VISHAKHAPATNAM	190,SW	
GOPALPUR	430,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
11.05.22/1200	0	16.3	81.3	MACHILIPATNAM/ FRANCHPET (20,NE)	NARSAPUR (45,WSW)	VIJAYAWADA /GANNAVARAM (59,ESE)	NIDADAVOLE (67,SSW)	VIJAYAWADA (77,ESE)
11.05.22/1800	6	16.4	81.4	NARSAPUR (32,W)	MACHILIPATNAM/ FRANCHPET (35,NE)	NIDADAVOLE (52,SSW)	VIJAYAWADA /GANNAVARAM (66,ESE)	VIJAYAWADA (85,E)
12.05.22/0000	12	16.5	81.6	NARSAPUR (13,NW)	NIDADAVOLE (37,S)	MACHILIPATNAM/ FRANCHPET (59,NE)	KAKINADA (84,SW)	VIJAYAWADA /GANNAVARAM (85,E)
12.05.22/1200	24	16.6	82.0	NARSAPUR (37,ENE)	KAKINADA (46,SSW)	NIDADAVOLE (51,ESE)	MACHILIPATNAM/ FRANCHPET (101,ENE)	TUNI (102,SW)
13.05.22/0000	36	16.7	82.7	KAKINADA (57,ESE)	TUNI (74,SSE)	NARSAPUR (111,ENE)	NIDADAVOLE (120,E)	VISHAKHAPATNAM (130,SSW)

**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 OF DEEP DEPRESSION (REMNANT OF CYCLONIC STORM 'ASANI') OVER WESTCENTRAL BAY OF BENGAL CLOSED TO ANDHRA PRADESH COAST BASED ON 1200 UTC OF 11<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 ( $\geq$  120 KT)

- LESS THAN 34 KT
- 34-47 KT
- $\geq$  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)
- $\geq$  64 KT ( $\geq$ 118 KMPH)

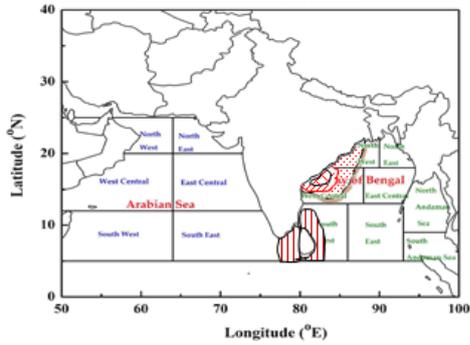
**IMPACT OVER THE SEA**

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
$\geq$ 64 ( $\geq$ 118)	Phenomenal	Total suspension of fishing operations

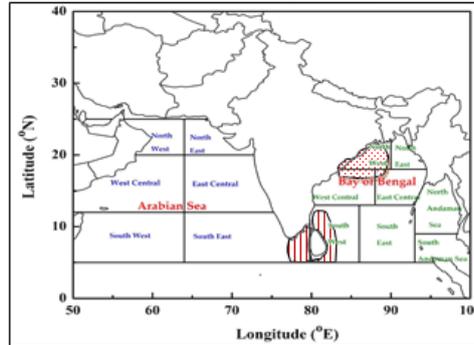
# FISHERMEN WARNING GRAPHICS

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

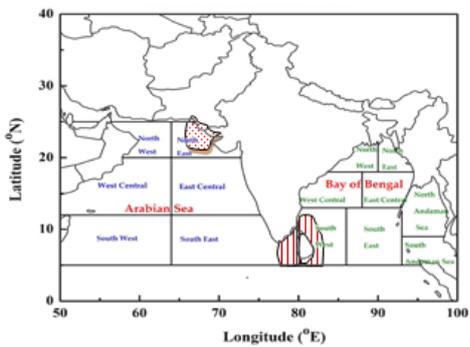
DAY-1: 11.05.2022/0600 UTC TO 12.05.2022/0600 UTC



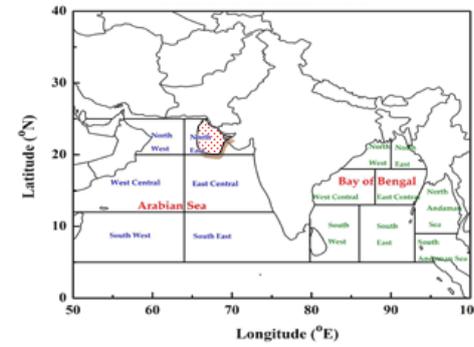
DAY-2: 12.05.2022/0600 UTC TO 13.05.2022/0600 UTC



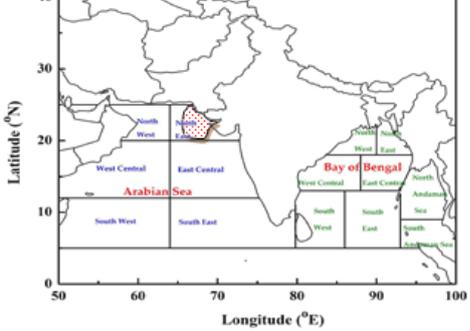
DAY-3: 13.05.2022/0600 UTC TO 14.05.2022/0600 UTC



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