



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

**Press Release
Date: 09th May, 2023
Time of Issue: 1315 hours IST**

**Subject: (i) A Well Marked Low pressure Area lies over Southeast Bay of Bengal & adjoining South Andaman Sea. It is likely to intensify into a depression by today evening and further into a Cyclonic Storm over southeast Bay of Bengal & adjoining areas of East Central Bay of Bengal and Andaman Sea on 10th May.
(ii) Heat wave conditions likely over East India during 09th to 11th May.**

Weather observed during past 24 hours ending at 0830 hrs IST of today: (Refer Annexure I)

Significant Meteorological features:

- ❖ The low pressure area over Southeast Bay of Bengal and adjoining South Andaman Sea has become Well Marked Low pressure Area over the same region at 0530 hours IST of today, the 9th May 2023. It is very likely to intensify into a depression by today evening over the same region and subsequently into a cyclonic storm over southeast Bay of Bengal and adjoining areas of eastcentral Bay of Bengal and Andaman Sea on 10th May. It is likely to move initially north-northwestwards till 11th May. Thereafter, it is likely to recurve gradually and move north-northeastwards towards Bangladesh-Myanmar coasts.
- ❖ A trough runs from Westcentral Bay of Bengal to cyclonic circulation associated with the Well Marked Low Pressure Area over Southeast Bay of Bengal & adjoining south Andaman Sea and extends upto middle tropospheric levels, tilting southwestwards with height.
- ❖ A Trough/Wind Discontinuity runs from Telangana to south Tamil Nadu in lower tropospheric levels.

Forecast and warning in association with Well Marked Low Pressure Area over Southeast Bay of Bengal & adjoining South Andaman Sea:

Warnings:

(i) Rainfall (warning graphics enclosed)

- ❖ **Andaman & Nicobar Islands:** Rainfall at most places with Heavy to very heavy rainfall at isolated places is likely during 9th to 11th May. Heavy rainfall at isolated places over Andaman Islands is likely on 12th May.

(ii) Wind warning:

- ❖ **Andaman & Nicobar Islands:** Squally wind speed reaching 45-55 kmph gusting to 65 kmph prevails on 9th May. Squally wind speed reaching 50-60 kmph gusting to 70 kmph is very likely from evening of 9th May and 55-65 kmph gusting to 75 kmph on 10th & 11th May.
- ❖ **Andaman Sea:** Squally wind speed reaching 45-55 kmph gusting to 65 kmph prevails on 9th May. Squally wind speed reaching 50-60 kmph gusting to 70 kmph is very likely by morning of 10th May and 55-65 kmph gusting to 75 kmph is likely on 11th May.

- ❖ **Southeast Bay of Bengal:**
Squally wind speed reaching 45-55 kmph gusting to 65 kmph prevails on 9th May.
Squally wind speed reaching 50-60 kmph gusting to 70 kmph is very likely from morning of 10th May.
Gale wind speed reaching 70-80 kmph gusting to 90 kmph from 11th May morning becoming 80-90 kmph gusting to 100 kmph on 12th May.
Squally wind speed reaching 50-60 kmph gusting to 70 kmph is very 13th May.
- ❖ **Eastcentral Bay of Bengal:**
Squally weather with wind speed reaching 40-50 kmph gusting to 60 kmph is very likely on 9th May and 50-60 kmph gusting to 70 kmph on 10th May.
Gale wind speed reaching 60-70 kmph gusting to 80 kmph from evening of 10th May.
Gale wind speed reaching 80-100 kmph gusting to 120 kmph on 11th May becoming 130-140 kmph gusting to 150 kmph during 12th & 13th May.
- ❖ **Westcentral Bay of Bengal:**
Squally weather with wind speed reaching 40-50 kmph gusting to 60 kmph is very likely on 9th May and 50-60 kmph gusting to 70 kmph on 10th May.
Gale wind speed reaching 60-70 kmph gusting to 80 kmph becoming 80-90 kmph gusting to 100 kmph on 11th May.
Gale wind speed reaching 100-110 kmph gusting to 120 kmph during 12th & 13th May.

(iii) Sea condition

- ❖ **Andaman Sea:**
Rough to very rough over south Andaman Sea prevails on 9th May
Very rough to high over Andaman Sea during 10th & 11th May.
Very rough to very rough over north Andaman Sea during 12th and 13th May.
- ❖ **Southeast Bay of Bengal:**
Rough to very rough prevails on 9th May.
Very rough to high during 10th and 11th May.
High to very high during on 12th May.
- ❖ **Eastcentral Bay of Bengal:**
Rough to very rough prevails on 9th May.
High to very high during 10th & 11th May.
Very High to phenomenal during 12th & 13th May.
- ❖ **Westcentral Bay of Bengal:**
Rough to very rough on 9th May.
High to very high during 10th & 11th May.
High to Very High during 12th & 13th May.

(iv) Fishermen Warning (warning graphics enclosed)

- ❖ Fishermen, small ships, boats and trawlers are advised not to venture into southeast and central Bay of Bengal and Andaman Sea from 9th May onwards.
- ❖ Those over central Bay of Bengal and north Andaman Sea are advised to return by today, the 9th May.

(v) Advisory

- ❖ Regulation of tourism and offshore activities and shipping near Andaman and Nicobar Islands during 9th - 12th May and
- ❖ Regulation of shipping activity over the sea areas of southeast & central Bay of Bengal and Andaman Sea during 9th -13th May.

Forecast and warning over rest parts of the country during next five days:

South India:

- ❖ Thunderstorm/lightning/gusty winds with light/moderate scattered to fairly widespread rainfall very likely over Kerala & Mahe during next 5 days; Karnataka during next 3 days and with light isolated to scattered rainfall over rest parts of the region during next 2 days.
- ❖ **Heavy rainfall** very likely at isolated places over Tamil Nadu, Puducherry & Karaikal and Coastal Karnataka on 09th May and over Kerala & Mahe and South Interior Karnataka during 09th - 11th May.

Northeast India:

- ❖ Scattered to fairly widespread rainfall likely over Arunachal Pradesh and isolated rainfall over Assam & Meghalaya during next 5 days.
- ❖ **Heavy rainfall** very likely at isolated places over Nagaland, Manipur, Mizoram & Tripura on 13th May.

No significant weather likely over rest parts of the country.

Maximum Temperatures, its forecast and Heat Wave Warnings (Graphics in Annexure II):

- ❖ Yesterday, Maximum Temperatures were below 40°C over most parts of the country except parts of Rajasthan, north Gujarat, Uttar Pradesh, north Chhattisgarh, north Odisha, south Bihar and West Bengal, where these are between 40-42°C. Maximum Temperatures were above normal over many parts of East India and normal to below normal over the rest parts of the country.
- ❖ Maximum temperatures are very likely to increase by 3-5°C over most parts of the country during next 3-4 days except over East India where no significant change in maximum temperatures is likely.
- ❖ Due to humid air and high temperature, Hot and Discomfort weather is very likely over Gujarat during next 4-5 days and over Konkan on 10th & 11th May.
- ❖ **Heat wave conditions** very likely in isolated pockets over Bihar and West Bengal during 09th - 11th May.

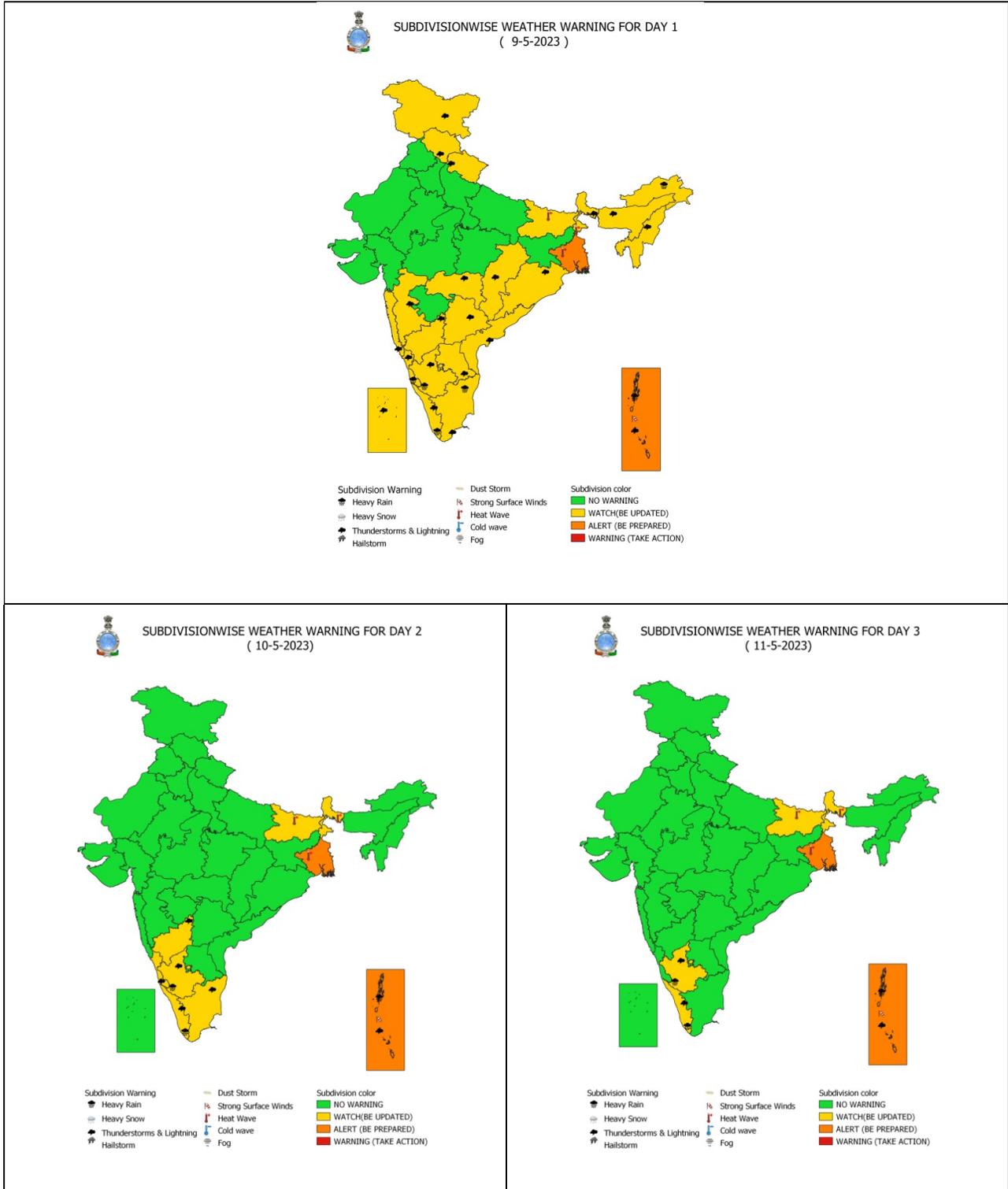
For more details kindly refer:

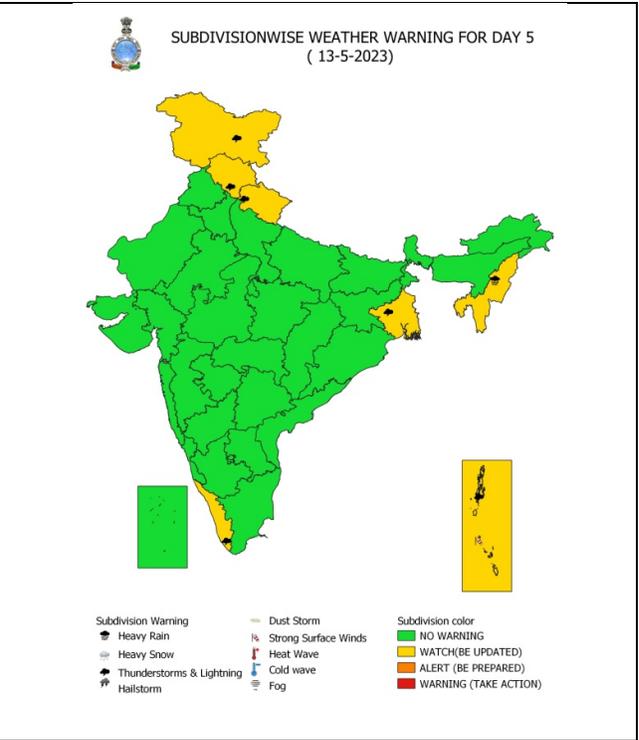
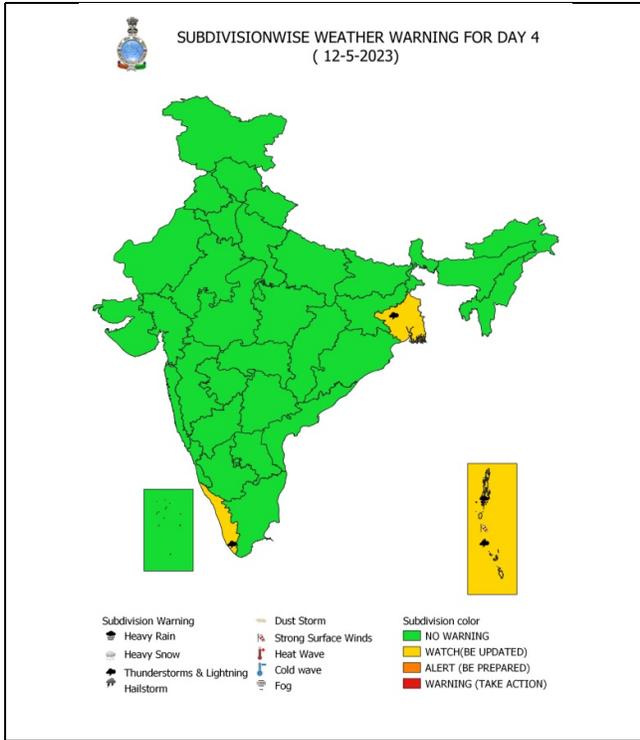
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<https://mausam.imd.gov.in/responsive/districtWiseNowcast.php>

Observations: (from 0830 hours IST of yesterday to 0830 hours IST of today):

- ❖ **Significant rainfall recorded (from 0830 hrs IST of yesterday to 0830 hrs IST of today)** (in cm): **Tamil Nadu:** Mettupalayam (dist Coimbatore) 9, Virudhunagar (dist Virudhunagar), Virudunagar AWS (dist Virudhunagar) 7 each, **Kerala:** Myladumpara (Idukki district) 7, **South Interior Karnataka:** Sakleshpura (dist Hassan) 7, C R Patna (dist Hassan) 5, Konanur (dist Hassan) 5, **Coastal Karnataka:** Honavar Obsy (dist Uttara Kannada) 5, **North Interior Karnataka:** Gokak (dist Belagavi) 5, Kawadimatti Arg (dist Yadgir) 5, **Arunachal Pradesh:** Tuting (dist Upper Siang) 7; **Odisha:** Lamataput (dist Koraput) 7, **Madhya Maharashtra:** Chandgad (dist Kolhapur) 5, Ajra (dist Kolhapur) 4, **Royalaseema:** Holagunda (dist Kurnool) 4, Duvvur (dist Ysr District) 3, **Coastal Andhra Pradesh:** Rapur (dist Spsr Nellore) 3; **Telangana:** Gandhari (dist Kamareddy) 4, Sikkim: east Sikkim-5, North Sikkim-4; **Konkan & Goa:** Dabolim N.a.s.- Navy (dist South Goa) 3, Guhagarh (dist Ratnagiri) 3, Dapoli_agri (dist Ratnagiri) 3, **Jammu & Kashmir:** Ananatnag, Baramula, Bandiapore-2 each
- ❖ **Heavy rainfall occurred (from 0830 hrs IST of yesterday to 0830 hrs IST of today):** at isolated places over Arunachal Pradesh, Tamil Nadu, Kerala and South Interior Karnataka.
- ❖ **Thunderstorm Observed (from 0830 hrs IST of yesterday to 0830 hrs IST of today):** at isolated places over Jammu & Kashmir, Himachal Pradesh, Uttar Pradesh Sub-Himalayan West Bengal & Sikkim, Tamil Nadu, Puducherry & Karaikal, Andaman & Nicobar Islands, Konkan & Goa and Kerala & Mahe.
- ❖ **Hailstorm Observed (from 0830 hrs IST of yesterday to 0830 hrs IST of today):** at isolated places over Himachal Pradesh.



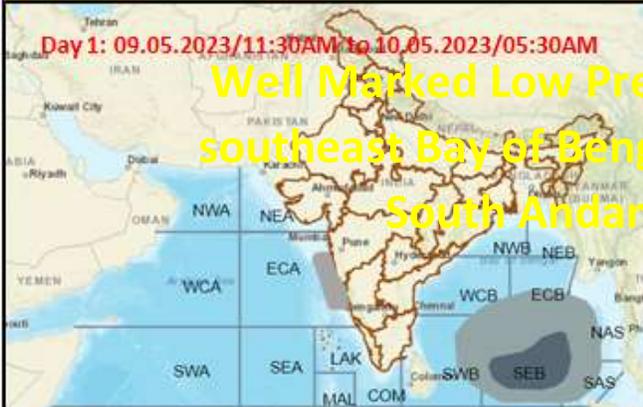


Fishermen warning graphics

Day 1: 09.05.2023/11:30AM to 10.05.2023/05:30AM

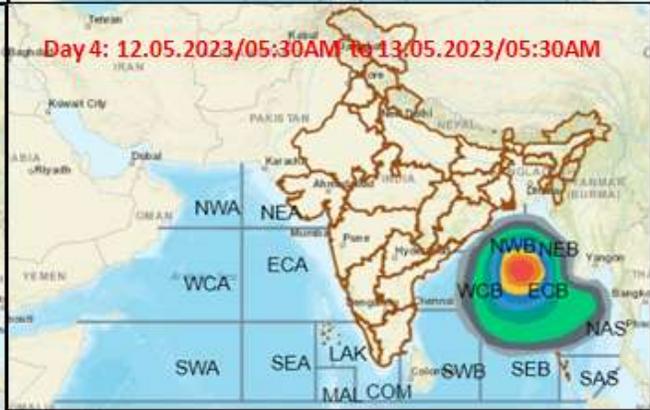
Day 2: 10.05.2023/05:30AM to 11.05.2023/05:30AM

Well Marked Low Pressure Area over
southeast Bay of Bengal and adjoining
South Andaman Sea



Day 3: 11.05.2023/05:30AM to 12.05.2023/05:30AM

Day 4: 12.05.2023/05:30AM to 13.05.2023/05:30AM

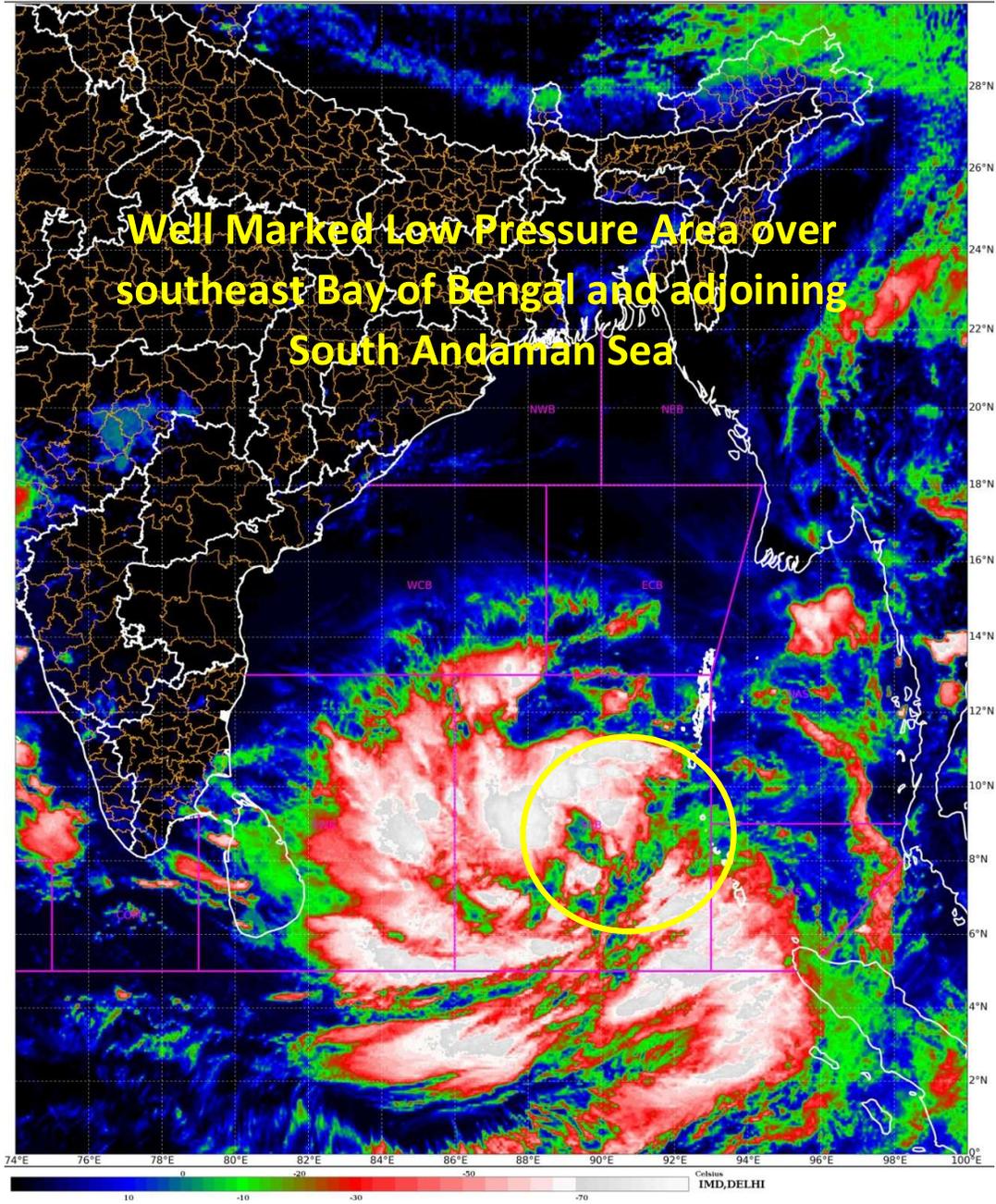


Day 5: 13.05.2023/05:30AM to 14.05.2023/05:30AM



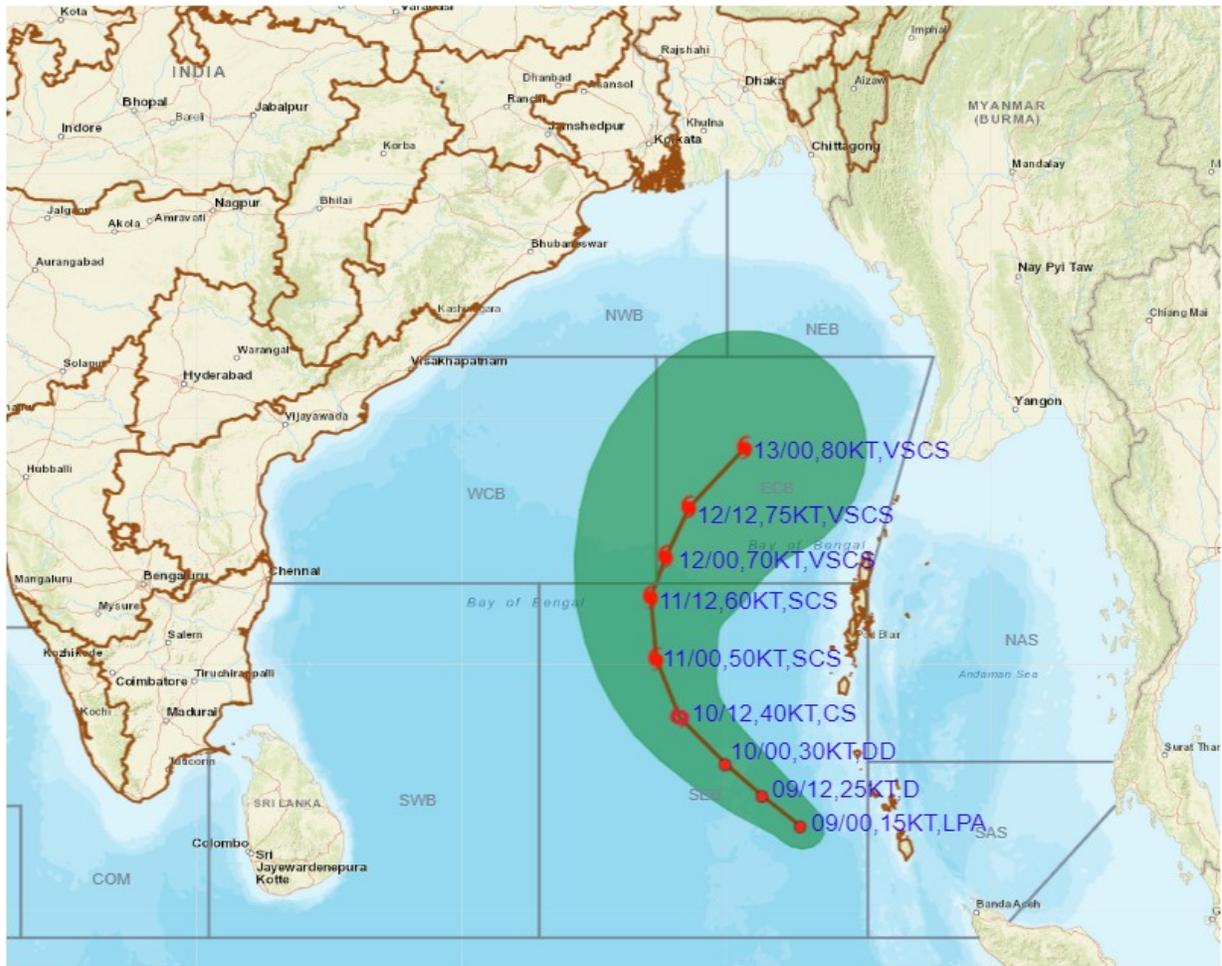
	Squally WX with wind speed 40-50 kmph gusting to 60 kmph
	Squally WX with wind speed 50-60 kmph gusting to 70 kmph
	Gale wind speed 60-70 kmph gusting to 80 kmph
	Gale wind with wind speed 70-80 kmph gusting to 90 kmph
	Gale wind with wind speed 80-90 kmph gusting to 100 kmph
	Gale wind with wind speed 90-100 kmph gusting to 110 kmph
	Gale wind with wind speed 100-110 kmph gusting to 120 kmph
	Gale wind with wind speed 120-130 kmph gusting to 140 kmph
	Gale wind with wind speed 130-140 kmph gusting to 150 kmph

FISHERMEN ARE ADVISED NOT TO VENTURE IN THE MARKED AREAS





PRE-GENESIS TRACK FORECAST FOR WELL MARKED LOW PRESSURE AREA OVER SOUTHEAST BAY OF BENGAL AND ADJOINING SOUTH ANDAMAN SEA BASED ON 0000 UTC (0530 IST) OF 09TH MAY 2023.



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

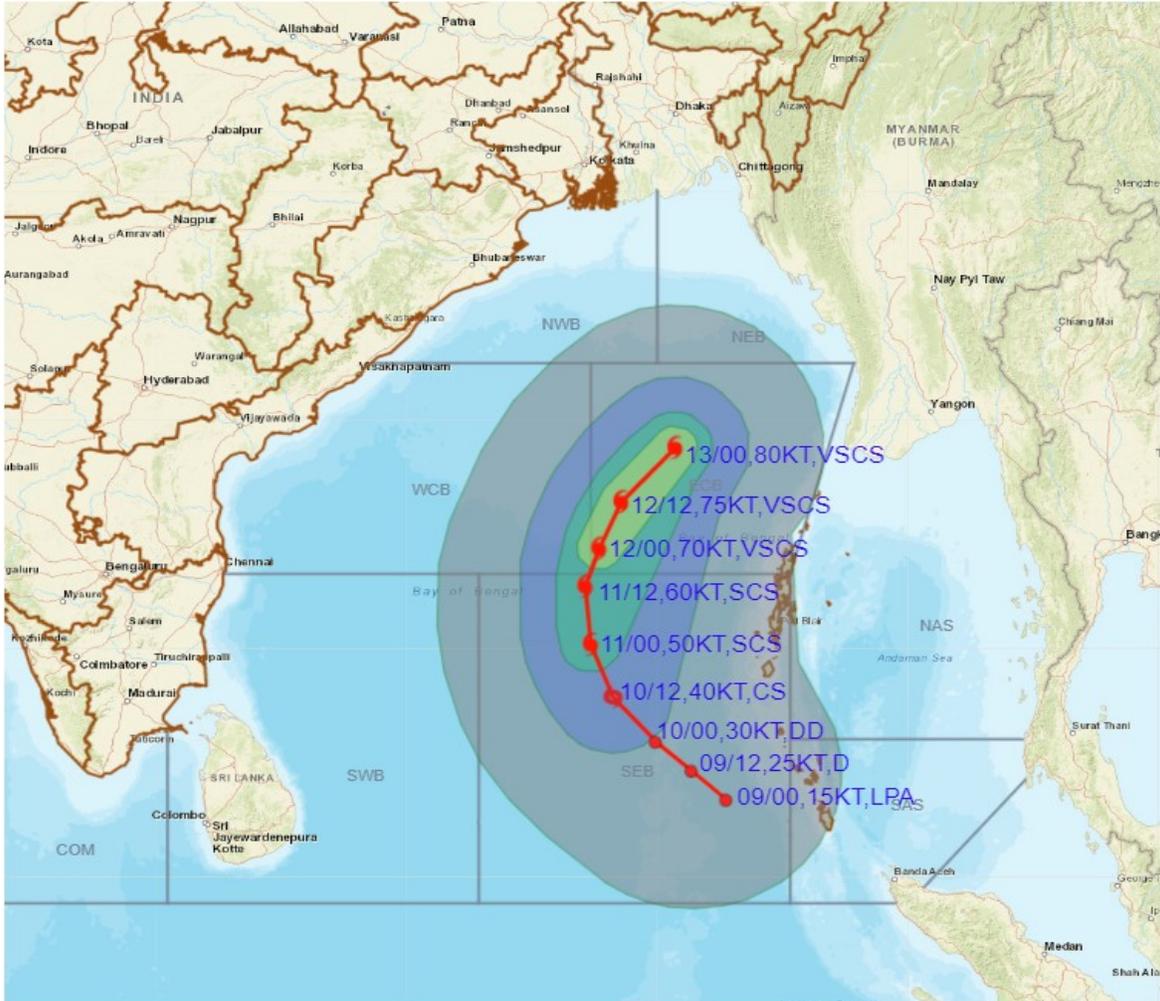
— OBSERVED TRACK

— FORECAST TRACK

▲ CONE OF UNCERTAINTY



PRE-GENESIS TRACK FORECAST ALONGWITH QUADRANT WIND DISTRIBUTION FOR WELL MARKED LOW PRESSURE AREA OVER SOUTHEAST BAY OF BENGAL AND ADJOINING SOUTH ANDAMAN SEA BASED ON 0000 UTC (0530 IST) OF 09TH MAY 2023.



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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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

Legends:

- ❖ **Heavy Rain:** 64.5 to 115.5 mm; **Very Heavy Rain:** 115.6 to 204.4 mm; **Extremely Heavy Rain:** >204.4mm.
- ❖ **Region wise classification of meteorological Sub-Divisions:**
 - **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.
 - **Central India:** West Madhya Pradesh, East Madhya Pradesh, Vidarbha and Chhattisgarh.
 - **East India:** Bihar, Jharkhand, Sub-Himalaya West Bengal & Sikkim; Gangetic West Bengal, Odisha and Andaman & Nicobar Islands.
 - **Northeast India:** Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.
 - **West India:** Gujarat Region, Saurashtra & Kutch, Konkan & Goa, Madhya Maharashtra and Marathwada.
 - **South India:** Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Coastal Karnataka, North Interior Karnataka, South Interior Karnataka, Kerala & Mahe, Tamilnadu, 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)

Subdivision Warning	 Dust Storm	Subdivision color
 Heavy Rain	 Strong Surface Winds	 NO WARNING
 Heavy Snow	 Heat Wave	 WATCH(BE UPDATED)
 Thunderstorms & Lightning	 Cold wave	 ALERT (BE PREPARED)
 Hailstorm	 Fog	 WARNING (TAKE ACTION)

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