



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

Press Release

Date: 10th May, 2023

Time of Issue: 1315 hours IST

**Subject: (i) Deep Depression over southeast Bay of Bengal very likely to intensify gradually into a Cyclonic Storm over the same region around today evening; into a Severe Cyclonic Storm by 11th May morning and Very Severe Cyclonic Storm by 11th May midnight.
(ii) Heat wave conditions likely over East India during 10th to 12th May.**

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

Significant Meteorological features:

- ❖ Yesterday's Well Marked Low Pressure Area concentrated into Depression at 2330 hrs IST of 09th May and into a Deep Depression at 0530 hrs IST of 10th May over southeast Bay of Bengal. It moved northwestwards with a speed of 07 kmph during past 06 hours and lay centered at 0830 hours IST of today, the 10th May 2023 over the same region near latitude 8.8°N and longitude 88.9°E, about 530 km southwest of Port Blair, 1430 km south of Cox's Bazar (Bangladesh) and 1320 km south-southwest of Sittwe (Myanmar).
- ❖ It is very likely to move north-northwestwards and intensify gradually into a cyclonic storm over the same region around today evening. Then continuing to move north-northwestwards, it will gradually intensify further into a severe cyclonic storm by 11th May morning and very severe cyclonic storm by 11th May mid-night over southeast and adjoining central Bay of Bengal. Thereafter, it is likely to recurve gradually, move north-northeastwards and weaken slightly from 13th May and cross southeast Bangladesh and north Myanmar coasts between Cox's Bazar (Bangladesh) and Kyaukpau (Myanmar) around forenoon of 14th May, 2023 with maximum sustained wind speed of 110-120 kmph gusting to 130 kmph.
- ❖ A trough runs from cyclonic circulation associated with the Deep Depression over Southeast Bay of Bengal to south Andhra Pradesh coast in lower & middle tropospheric levels.
- ❖ A fresh feeble Western Disturbance is likely to affect Western Himalayan Region from the night of 12th May, 2023.

Forecast and warning in association with Deep Depression over Southeast Bay of Bengal:

Warnings:

(i) Rainfall (warning graphics enclosed)

- ❖ **Andaman & Nicobar Islands:** Rainfall at most places with Heavy to very heavy rainfall at isolated places is likely till 11th May. Heavy rainfall at isolated places over Andaman Islands is likely on 12th May.
- ❖ **Tripura & Mizoram:** Rainfall at most places with Heavy rainfall at isolated places is likely on 13th May and heavy to very heavy rainfall at isolated places on 14th May.
- ❖ **Nagaland, Manipur & south Assam:** Rainfall at many places with Heavy rainfall at isolated places is on 14th

(ii) Wind warning:

❖ **Andaman & Nicobar Islands:**

Squally wind speed reaching 50-60 kmph gusting to 70 kmph is likely to prevail till 11th May.

❖ **Andaman Sea:**

Squally wind speed reaching 50-60 kmph gusting to 70 kmph is likely to prevail over south Andaman Sea till 11th and 12th May over North Andaman Sea.

❖ **Southeast Bay of Bengal:**

Squally wind speed reaching 50-60 kmph gusting to 70 kmph are prevailing and likely to become 60-70 kmph gusting to 80 kmph from today evening;

Gale wind speed reaching 90-100 kmph gusting to 110 kmph from 11th morning and 120-130 kmph gusting to 140 kmph by 12th morning to afternoon and decrease thereafter becoming squally wind speed reaching 50-60 kmph gusting to 70 kmph on 13th May.

❖ **Adjoining southwest Bay of Bengal:**

Squally wind speed reaching 45-55 kmph gusting to 65 kmph is likely during 10th and 11th May.

❖ **Eastcentral Bay of Bengal:**

Squally weather with wind speed reaching 40-50 kmph gusting to 60 kmph are prevailing and likely to become 60-70 kmph gusting to 80 kmph by 11th morning;

Gale wind speed reaching 80-100 kmph gusting to 120 kmph on 11th evening, 130-140 kmph gusting to 150 kmph from 12th May evening and 140-150 kmph gusting to 165 kmph on 13th May forenoon, and then gradually decrease becoming 100-110 gusting to 120 by 14th May morning.

❖ **Westcentral Bay of Bengal:**

Squally weather with wind speed reaching 40-50 kmph gusting to 60 kmph are likely to prevail from 11th morning.

It would gradually increase becoming gale wind speed reaching 60-70 kmph gusting to 80 kmph from 11th May evening;

Gale wind speed reaching 110-120 kmph gusting to 130 kmph on 12th morning and becoming 90-100 kmph gusting to 110 kmph from 13th May morning and gradually decreases thereafter.

❖ **Northeast Bay of Bengal:**

Squally wind speed reaching 50-60 kmph gusting to 70 kmph is likely on 12th May.

Gale wind speed reaching 70-80 gusting to 90 likely to commence from 13th morning and gradually increase and becoming 130-140 kmph gusting 150 kmph during 13th evening and night. Subsequently, it is likely to decrease to 120-130 kmph gusting to 140 kmph on 14th May forenoon and significantly decrease thereafter.

❖ **Northwest Bay of Bengal:**

Squally wind speed reaching 40-50 kmph gusting to 60 kmph is likely from 13th May to 14th May forenoon and decrease thereafter.

❖ **Tripura, Mizoram & south Manipur:**

Squally wind speed reaching 45-55 kmph gusting to 65 kmph is very likely to prevail on 14th May.

(iii) Sea condition

❖ **Andaman Sea:**

Rough to very rough over south Andaman Sea very likely to prevail till today evening.

Very rough to high over Andaman Sea from 10th evening to 11th May.

Very rough to rough over north Andaman Sea during 12th May.

❖ **Southeast Bay of Bengal:**

Rough to very rough very likely to prevail till today evening..

Very rough to high from 10th evening to 11th May.

High to very high on 12th May.

❖ **Eastcentral Bay of Bengal:**

Rough to very rough very likely to prevail till today evening.

High to very high from 10th evening to 11th May.

Very High to phenomenal during 12th & 13th May.

❖ **Westcentral Bay of Bengal:**

Rough to very rough very likely to prevail till today evening.

Very rough to high from 10th May evening to 11th May.

High to Very High on 12th May.

❖ **Northeast Bay of Bengal:**

Rough to very rough on 12th May.

Phenomenal to very high during 13th & 14th May.

(iv) Fishermen Warning (warning graphics enclosed)

- ❖ Fishermen, ships, boats and trawlers are advised not to venture into southeast Bay of Bengal and south Andaman Sea till 11th May, central Bay of Bengal and north Andaman Sea till 14th May morning, and into northeast Bay of Bengal during 12th-14th May.
- ❖ Those over central Bay of Bengal and north Andaman Sea are advised to return by today, the 10th May.

(v) Advisory

- ❖ Regulation of tourism and offshore activities and shipping near Andaman & Nicobar Islands till 13th May.
- ❖ Regulation of shipping activity over the sea areas of southeast Bay of Bengal and Andaman Sea till 12th May, eastcentral Bay of Bengal till 14th, and westcentral Bay of Bengal till 13th May.
- ❖ Regulation of shipping activity over the sea areas of northeast Bay of Bengal during 12th-14th May.

Forecast and warning over rest parts of the country during next 5 days:

South India:

- ❖ Thunderstorm/lightning/gusty winds with light/moderate scattered to fairly widespread rainfall very likely over Kerala & Mahe during next 5 days; over South Interior Karnataka and Tamil Nadu, Puducherry & Karaikal on 10th & 11th May and with light isolated to scattered rainfall over rest parts of the region on 10th May.
- ❖ **Heavy rainfall** very likely at isolated places over Coastal Andhra Pradesh and Rayalaseema on 10th May and over South Interior Karnataka and Kerala & Mahe on 10th & 11th May.

Northeast India:

- ❖ Isolated to scattered rainfall likely over the region during next 3 days and scattered to fairly widespread during subsequent 2 days.
- ❖ **Heavy rainfall** likely at isolated places over Nagaland, Manipur, Mizoram & Tripura on 13th May and over Arunachal Pradesh and Assam & Meghalaya on 14th May. **Heavy to very heavy rainfall** also likely at isolated places over Nagaland, Manipur, Mizoram & Tripura on 14th 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 many parts of the country except over parts of East India, Rajasthan, East Uttar Pradesh, Madhya Pradesh, Vidarbha & Gujarat; where these were between 40-43°C. Maximum Temperatures were above normal by 3-5°C over many parts of East & Northeast India and by 2-4°C over Gujarat and Kerala. It is near normal to below normal over rest parts of the country.
- ❖ Maximum temperatures are very likely to rise by 3-5°C over most parts of the country during next 3 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 and Konkan during next 3 days; over Odisha during next 5 days; Kerala and Tamil Nadu on 13th & 14th May.

- ❖ **Heat wave conditions** very likely in isolated pockets over Bihar on 10th & 11th May; over West Bengal during 10th-12th May and over Coastal Andhra Pradesh & Yanam on 13th & 14th May.

For more details kindly refer:

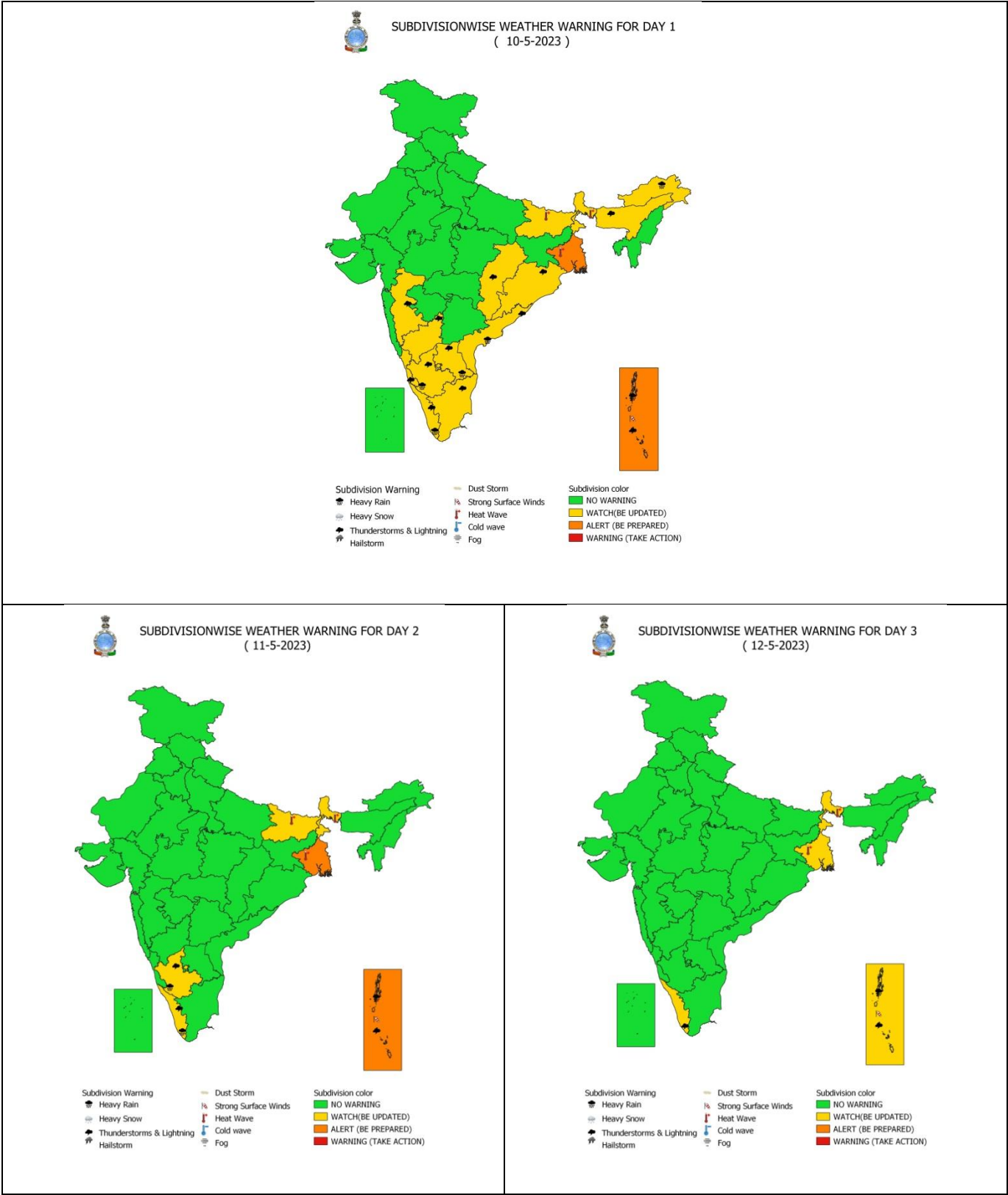
https://mausam.imd.gov.in/responsive/all_india_forcast_bulletin.php

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

Annexure I

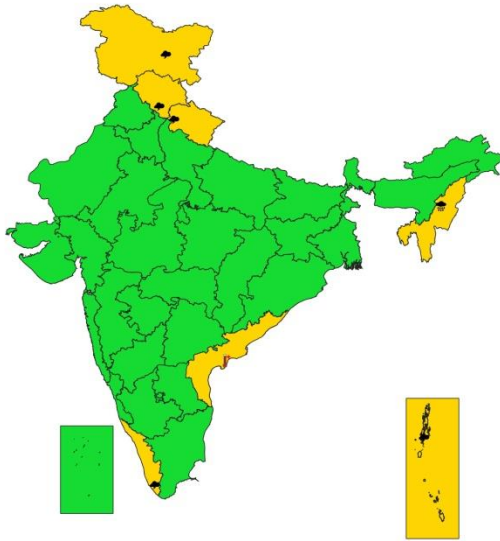
Observations: (from 0830 hours IST of yesterday to 0830 hours IST of today):

- ❖ **Rainfall/thundershowers observed at most places** over Andaman & Nicobar Islands; **at many places** over Arunachal Pradesh, Kerala & Mahe and Interior Karnataka; **at a few places** over Sub-Himalayan West Bengal & Sikkim, Coastal Karnataka and Tamil Nadu, Puducherry & Karaikal and **at isolated places** over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Himachal Pradesh, Uttarakhand, Telangana, Rayalaseema, Odisha, Chhattisgarh, Vidarbha, East Madhya Pradesh, Konkan & Goa and Madhya Maharashtra.
- ❖ **Heavy Rainfall observed:** at isolated places over Kerala and Tamil Nadu.
- ❖ **Significant rainfall recorded** (in cm): **Tamil Nadu:** Suralacode (dist Kanyakumari) 8, Perunchani Dam (dist Kanyakumari) 6, Puthan Dam (dist Kanyakumari), Glenmorgan (dist Nilgiris), Varattupallam (dist Erode), Thekkadi (dist Theni), Virudhunagar (dist Virudhunagar), Adavinainnarkoil Dam (dist Tenkasi) 5 each, **Kerala:** Poonjar AWS (Kottayam district) 7, Alappuzha 6, Thodupuzha (Idukki district) 5, **North Interior Karnataka:** Ranebennur (hos) (dist Haveri) 5, Aland (dist Kalaburgi) 4, South Interior Karnataka: C R Patna (dist Hassan) 4, Balehonnur (dist Chikkamagaluru) 4, Hunchadakatte (dist Shivamogga) 4, N R Pura (dist Chikkamagaluru) 4, **Rayalaseema:** Gooty (dist Anantapuramu) 3, **Telangana:** Kataram (dist J. Bhupalpally) 6, **Arunachal Pradesh:** Yingkiong (dist Upper Siang) 6, Tuting (dist Upper Siang) 5, Kabu Basti (dist West Siang) 4, **Andaman & Nicobar Islands:** Car Nicobar (dist Nicobar) 6, **Odisha:** Koraput (dist Koraput) 6, Lamataput (dist Koraput) 5, Korei (dist Jajpur) 4, Coastal Karnataka: Haliyal (dist Uttara Kannada) 4, **Madhya Maharashtra:** Chandgad (dist Kolhapur) 5, **Chhattisgarh:** Tokapal (dist Bastar) 3, Darbha (dist Bastar) 3.
- ❖ **Hailstorm observed** at isolated places over Uttarakhand.
- ❖ Yesterday, **Heat wave conditions** observed in isolated pockets over Gangetic West Bengal.





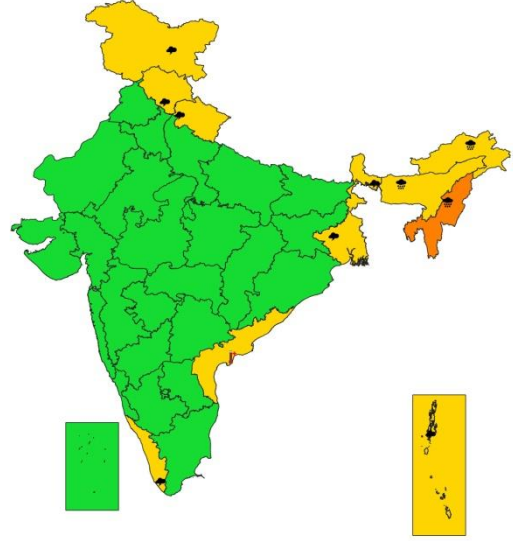
SUBDIVISIONWISE WEATHER WARNING FOR DAY 4
(13-5-2023)



- | | | |
|----------------------------|----------------------|--------------------------|
| 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) |

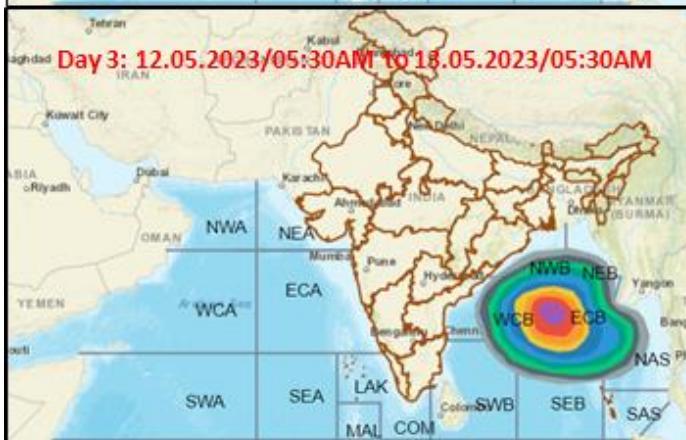
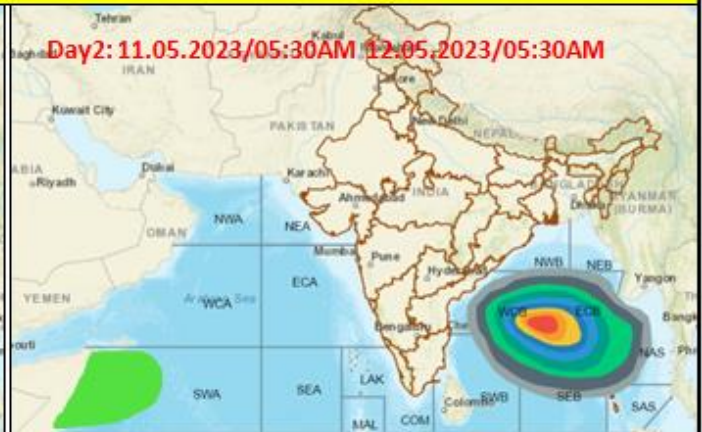
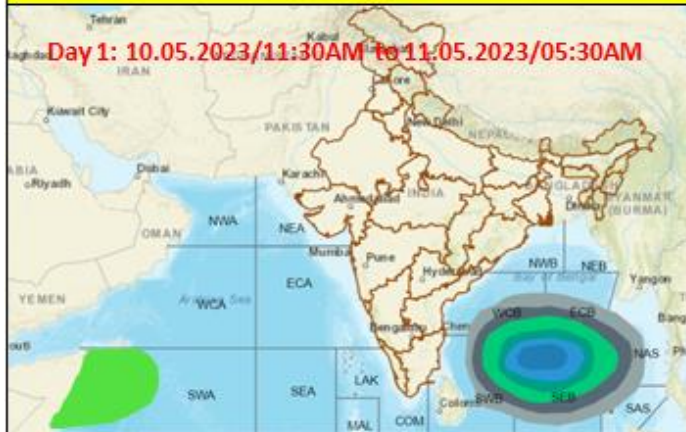


SUBDIVISIONWISE WEATHER WARNING FOR DAY 5
(14-5-2023)



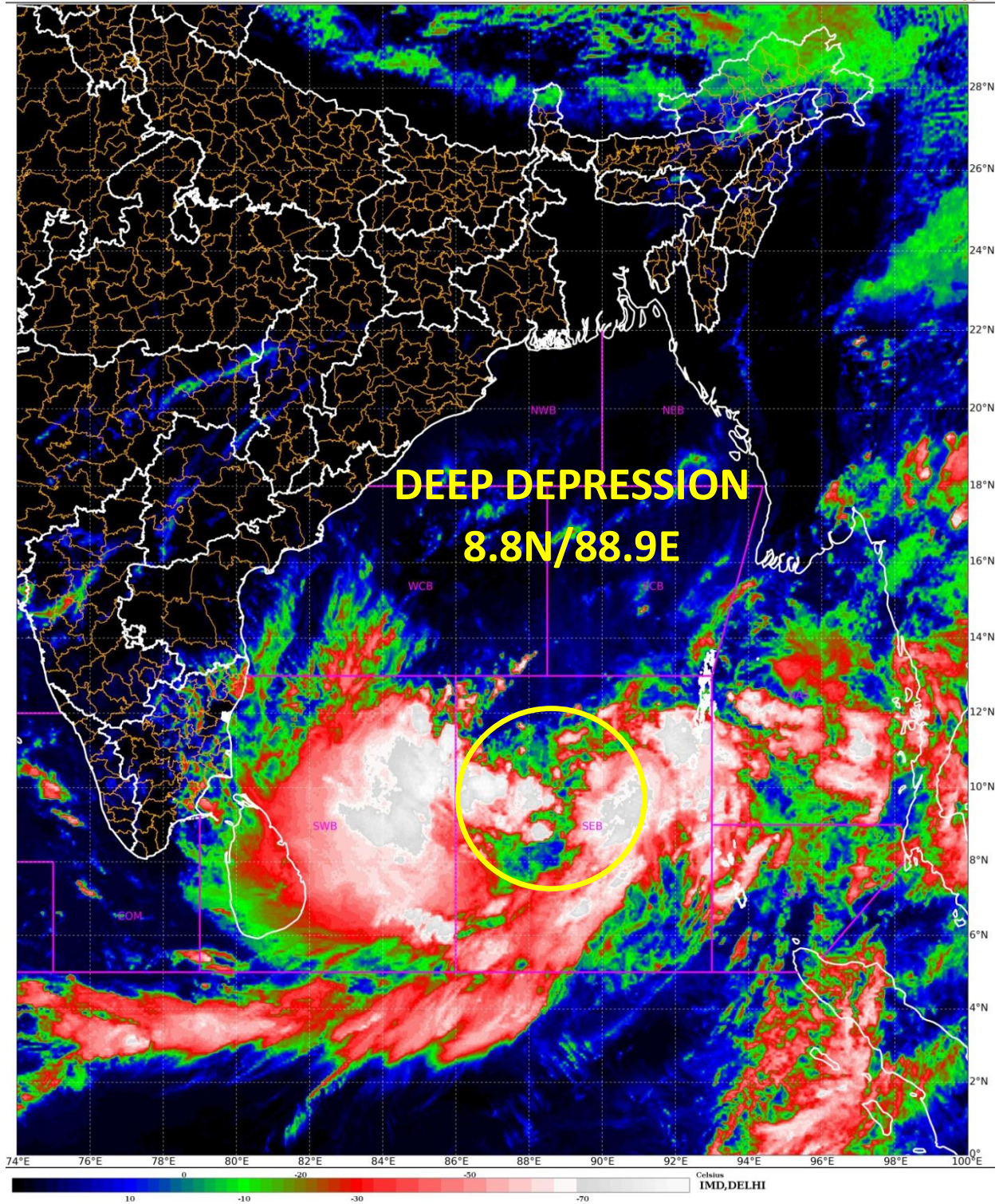
- | | | |
|----------------------------|----------------------|--------------------------|
| Subdivision Warning | Dust Storm | Subdivision color |
| Heavy Rain | Strong Surface Winds | NO WARNING |
| Heavy Snow | Heat Wave | WATCH(BE UPDATED) |
| Thunderstorms & Lightning | Cold wave | ALERT (BE PREPARED)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

Fishermen warning graphics



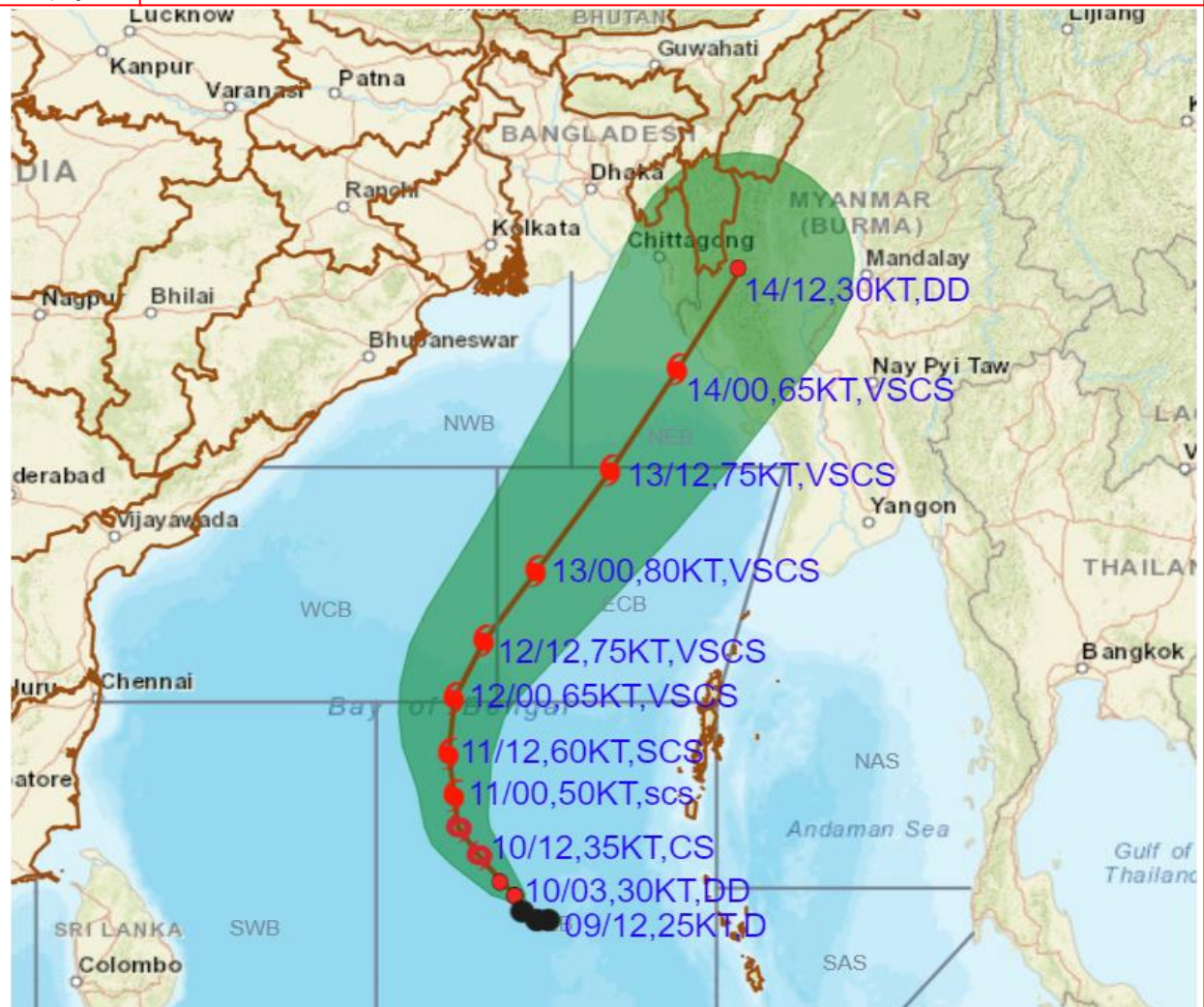
	Squally WX with wind speed 40-50 kmph gusting to 60 kmph
	Squally WX with wind speed 50-60 kmph gusting to 70 kmph
	Gale wind speed 60-70 kmph gusting to 80 kmph
	Gale wind with wind speed 70-80 kmph gusting to 90 kmph
	Gale wind with wind speed 80-90 kmph gusting to 100 kmph
	Gale wind with wind speed 90-100 kmph gusting to 110 kmph
	Gale wind with wind speed 100-110 kmph gusting to 120 kmph
	Gale wind with wind speed 110-120 kmph gusting to 140 kmph
	Gale wind with wind speed 130-140 kmph gusting to 150 kmph
	Gale wind with wind speed 140-150 kmph gusting to 160 kmph

FISHERMEN ARE ADVISED NOT TO VENTURE INTO THE MARKED AREAS





OBSERVED AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINTY OF DEEP DEPRESSION OVER SOUTHEAST BAY OF BENGAL BASED ON 0300 UTC (0830 IST) OF 10TH 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 (\geq 120 KT)

● LESS THAN 34 KT



34-47 KT



\geq 48 KT

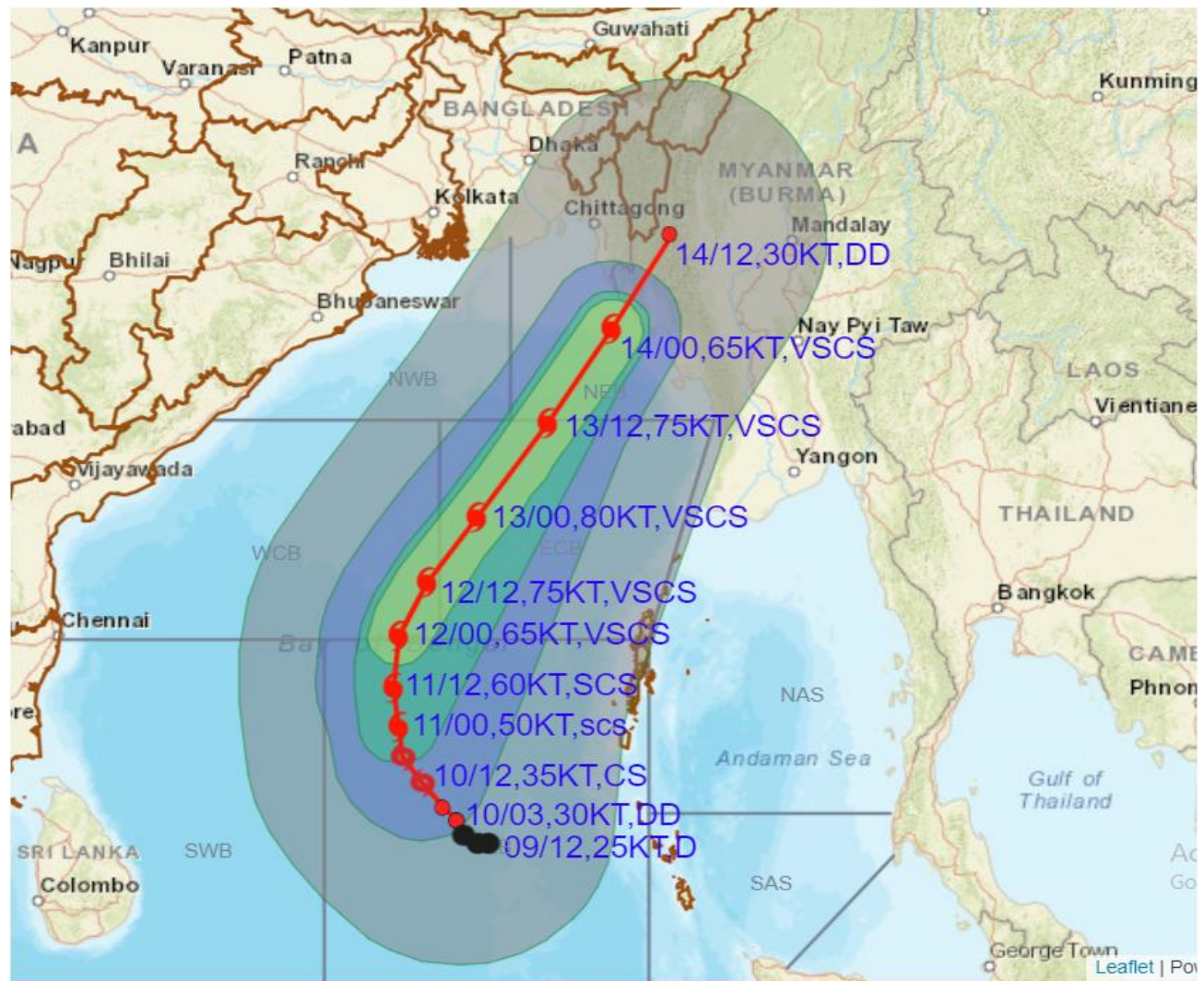
— OBSERVED TRACK

— FORECAST TRACK

▲ CONE OF UNCERTAINTY



OBSERVED AND FORECAST TRACK ALONGWITH QUADRANT WIND DISTRIBUTION OF DEEP DEPRESSION OVER SOUTHEAST BAY OF BENGAL BASED ON 0300 UTC (0830 IST) OF 10TH 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

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














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

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