



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

**BULLETIN NO. : 03 (BOB/02/2021)**

**TIME OF ISSUE: 0230 HOURS IST**

**DATED: 24.05.2021**

**FROM: INDIA METEOROLOGICAL DEPARTMENT (FAX NO. 24643965/24699216/24623220)**

**TO: CONTROL ROOM, NDM, MINISTRY OF HOME AFFAIRS (FAX.NO. 23093750)**

**CONTROL ROOM NDMA (FAX.NO. 26701729)**

**CABINET SECRETARIAT (FAX.NO.23012284, 23018638)**

**PS TO HON'BLE MINISTER FOR S & T AND EARTH SCIENCES (FAX NO.23316745)**

**SECRETARY, MOES, (FAX NO. 24629777)**

**H.Q. (INTEGRATED DEFENCE STAFF AND CDS) (FAX NO. 23005137/23005147)**

**DIRECTOR GENERAL, DOORDARSHAN (23385843)**

**DIRECTOR GENERAL, AIR (23421105, 23421219)**

**PIB MOES (FAX NO. 23389042)**

**UNI (FAX NO. 23355841)**

**D.G. NATIONAL DISASTER RESPONSE FORCE (NDRF) (FAX NO. 26105912, 2436 3260)**

**DIRECTOR, PUNCTUALITY, INDIAN RAILWAYS (FAX NO. 23388503)**

**CHIEF SECRETARY, ANDAMAN & NICOBAR ISLANDS (FAX NO. 03192- 232656)**

**CHIEF SECRETARY, WEST BENGAL (FAX NO. 033-22144328)**

**CHIEF SECRETARY, GOVT. OF ODISHA (FAX NO. 0674 -2536660)**

**CHIEF SECRETARY, ANDHRA PRADESH (FAX NO. 0863-2441029, 08645-246600)**

**CHIEF SECRETARY, TAMIL NADU (FAX NO. 044-25672304)**

**CHIEF SECRETARY, PUDUCHERRY (FAX NO. 0413-2337575, 2334145)**

**CHIEF SECRETARY, SIKKIM (FAX NO. 3592-222851)**

**CHIEF SECRETARY, JHARKHAND (FAX NO. 0651-2400255)**

**CHIEF SECRETARY, BIHAR (FAX NO. 0612-22217083/ 2217085)**

**CHIEF SECRETARY, ASSAM (FAX NO. 0361-2237200)**

**CHIEF SECRETARY, Meghalaya (FAX NO. 0364-2225978)**

**Sub: Depression over Eastcentral Bay of Bengal intensified into a Deep Depression over Eastcentral Bay of Bengal – (Pre-Cyclone watch for Odisha – West Bengal coasts).**

The **Depression** over Eastcentral Bay of Bengal moved west-northwestwards with a speed of 4 kmph during past 6 hours, intensified into a **Deep Depression** and lay centred at 2330 hrs IST of yesterday, the 23<sup>rd</sup> May, 2021 near latitude 16.3°N and longitude 89.7°E, about 600 km north-northwest of Port Blair (Andaman Islands), 540 km south-southeast of Paradip (Odisha), 650 km south-southeast of Balasore (Odisha) and 630 km south-southeast of Digha (West Bengal). It is very likely to move slowly north-northwestwards and intensify into a **Cyclonic Storm** by 24<sup>th</sup> May morning and further into a **Very Severe Cyclonic Storm** during the subsequent 24 hours. It would continue to move north-northwestwards, intensify further and reach Northwest Bay of Bengal near north Odisha and West Bengal coasts by 26<sup>th</sup> May morning.

It is very likely to cross north Odisha - West Bengal coasts between Paradip and Sagar islands by evening of 26<sup>th</sup> May as a Very Severe Cyclonic Storm.

Forecast track and intensity are given in the following table:

Date/Time(IST)	Position (Lat. °N/ long. °E)	Maximum sustained surface wind speed (Kmph)	Category of cyclonic disturbance
23.05.21/2330	16.3/89.7	50-60 gusting to 70	Deep Depression
24.05.21/0530	16.7/89.6	60-70 gusting to 80	Cyclonic Storm
24.05.21/1130	17.0/89.5	70-80 gusting to 90	Cyclonic Storm
24.05.21/1730	17.3/89.4	80-90 gusting to 100	Cyclonic Storm
24.05.21/2330	17.6/89.1	100-110 gusting to 120	Severe Cyclonic Storm
25.05.21/1130	18.5/88.5	120-130 gusting to 145	Very Severe Cyclonic Storm
25.05.21/2330	20.0/87.9	150-160 gusting to 180	Very Severe Cyclonic Storm
26.05.21/1130	21.3/87.3	160-170 gusting to 190	Very Severe Cyclonic Storm
26.05.21/2330	22.2/86.7	90-100 gusting to 110	Severe Cyclonic Storm
27.05.21/1130	23.0/86.1	30-40 gusting to 50	Depression

### **Warnings:**

#### **(i) Rainfall:**

• **Andaman & Nicobar Islands:** Light to moderate rainfall at most places with heavy to very heavy falls at isolated places on 24<sup>th</sup> May.

• **Odisha:** Light to moderate rainfall at many places with heavy to very heavy rainfall in the north coastal districts on 25<sup>th</sup>, heavy to very heavy rains at a few places with extremely heavy falls in Balasore, Bhadrak, Kendrapara, Mayurbhanj and heavy to very heavy falls at a few places in Jagatsinghpur, Cuttack, Jajpur, Keonjhar on 26<sup>th</sup> May and heavy to very heavy rainfall at isolated places in north interior Odisha on 27<sup>th</sup>. Isolated heavy to very heavy rainfall is likely over south coastal districts of Odisha during 25<sup>th</sup> and 26<sup>th</sup> May.

• **West Bengal & Sikkim:** Light to moderate rainfall at most places with heavy to very heavy rainfall over Medinipur, South & north 24 Parganas, Howrah and Hooghly districts on 25<sup>th</sup>, extremely heavy rainfall at isolated places over Jhargram, Medinipur, North & south 24 Parganas, Howrah, Hooghly, Kolkata and heavy to very heavy rainfall at a few places over Nadia, Bardhaman, Bankura, Purulia, Bhirbhum and heavy falls at isolated places over Murshidabad, Malda and Dakshin Dinajpur Districts on 26<sup>th</sup> May and heavy to very heavy rain at isolated places in Malda & Darjeeling, Dinajpur, Kalimpong, Jalpaiguri, Sikkim and heavy rain at a few places over Bankura, Purulia, Bardhaman, Bhirbhum & Murshidabad on 27<sup>th</sup> May.

• **Jharkhand:** Light to moderate rainfall at most places with heavy to very heavy rainfall at isolated places over Jharkhand and extremely heavy rainfall over southeast Jharkhand on 26<sup>th</sup> & 27<sup>th</sup> May.

• **Bihar:** Light to moderate rainfall at most places with heavy to very heavy rainfall at isolated places over Bihar on 27<sup>th</sup> May.

• **Assam & Meghalaya:** Light to moderate rainfall at most places with heavy to very heavy rainfall at isolated places over Assam, Meghalaya on 26<sup>th</sup> & 27<sup>th</sup> May.

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

- Squally wind speed reaching 45–55 kmph gusting to 65 kmph is likely to prevail over and around Andaman & Nicobar Islands and southeast Bay of Bengal during next 06 hours. Squally wind speed reaching 50–60 kmph gusting to 70 kmph prevailing over eastcentral Bay of Bengal and adjoining north Andaman Sea. It is very likely to increase further becoming Gale wind speed reaching 70 to 80 gusting to 90 kmph over major parts of central Bay of Bengal from 24th forenoon for subsequent 12 hours and would decrease gradually thereafter.
- Squally wind speed reaching 40-50 kmph gusting 60 kmph is very likely to prevail over North Bay of Bengal and along and off Odisha – West Bengal – Bangladesh coasts from 24th evening. It would increase gradually becoming 50-60 kmph gusting to 70 kmph from 25th evening. It would further increase becoming gale wind speed 60-70 kmph gusting to 80 kmph from 26th early hours over northwest Bay of Bengal and along and off West Bengal & north Odisha and Bangladesh coasts. It would gradually increase further becoming 90-100 gusting to 110 kmph from 26th morning and increase thereafter becoming 160-170 kmph gusting to 190 kmph at the time of landfall till 26th afternoon.
- Squally wind speed reaching 40-50 kmph gusting 60 kmph is very likely to prevail over south Jharkhand from on 26<sup>th</sup> noon and increase gradually becoming 110-120 kmph gusting to 130 kmph during 26<sup>th</sup> evening / night.
- Squally wind speed reaching 55-65 kmph gusting to 75 kmph likely over north interior districts of Odisha, interior districts of Gangetic West Bengal during 26<sup>th</sup> evening to 27<sup>th</sup> morning.

## **(iii) Sea condition**

- Sea conditions will be rough to very rough over Andaman Sea & adjoining eastcentral Bay of Bengal on 24<sup>th</sup> May, High to Very High/Phenomenal over major parts of central Bay of Bengal, north Bay of Bengal and along & off Odisha – West Bengal - Bangladesh coasts during 24th – 26th May.

## **(iv) Tidal wave**

- Tidal waves of 1- 2 meter height very likely to inundate low lying areas of Andaman & Nicobar Islands on 24<sup>th</sup> May.

## **(iv) Fishermen Warning**

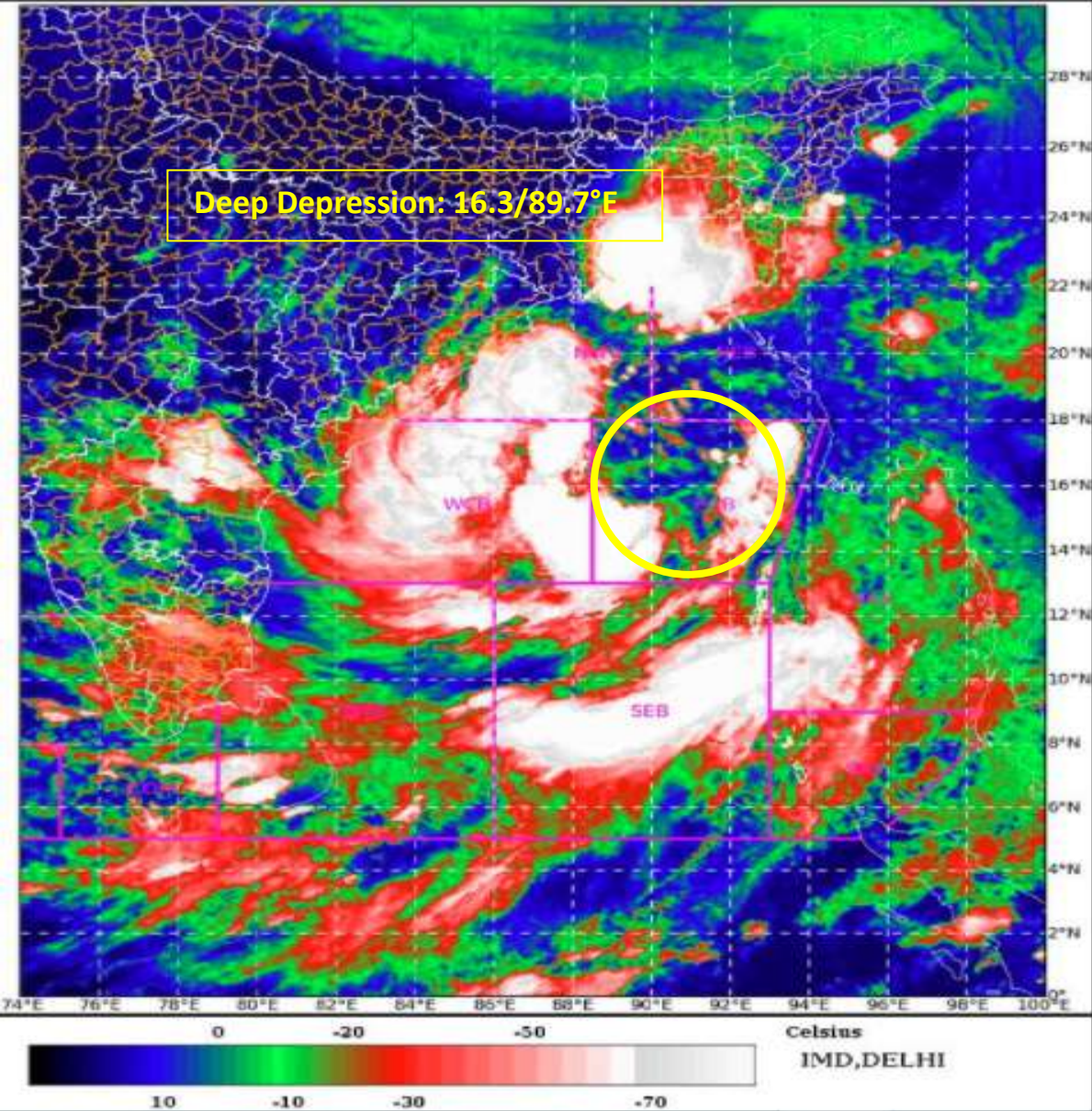
- The fishermen are advised not to venture into southeast & east central Bay of Bengal, Andaman Sea and along and off Andaman & Nicobar Islands on 24th May, into central Bay of Bengal from 24th–25th May and into north Bay of Bengal and along & off West Bengal – Odisha – Bangladesh coasts from 24th – 26th May.
- Those who are out in the Deep Sea of north and adjoining central Bay of Bengal are advised to return to the coast.

*The next bulletin will be issued at 0830 hrs IST of today, the 24<sup>th</sup> May, 2021.*

**(Krishna Mishra)  
Scientist-C, RSMC, New Delhi**

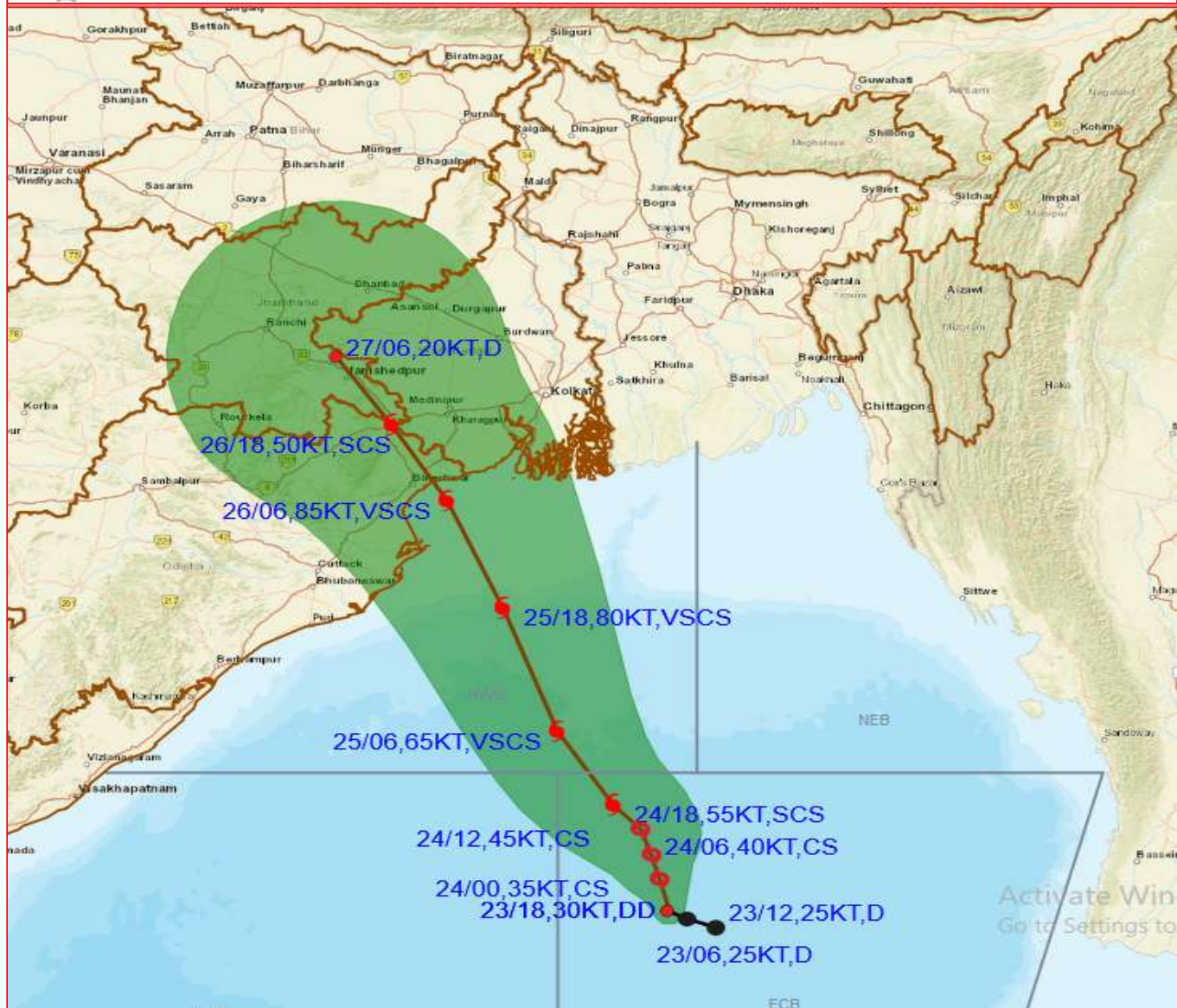
*Copy to: ACWC Kolkata/ Chennai/ CWC Bhubaneswar/CWC Visakhapatnam*

SAT : INSAT-3D IMG      23-05-2021/(1800 to 1826) GMT  
IMG\_TIR1\_TEMP 10.8 um    23-05-2021/(2330 to 2356) IST  
LIC Mercator





# OBSERVED AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINTY OF DEEP DEPRESSION OVER EASTCENTRAL BAY OF BENGAL BASED ON 1800 UTC OF 23<sup>RD</sup> MAY, 2021

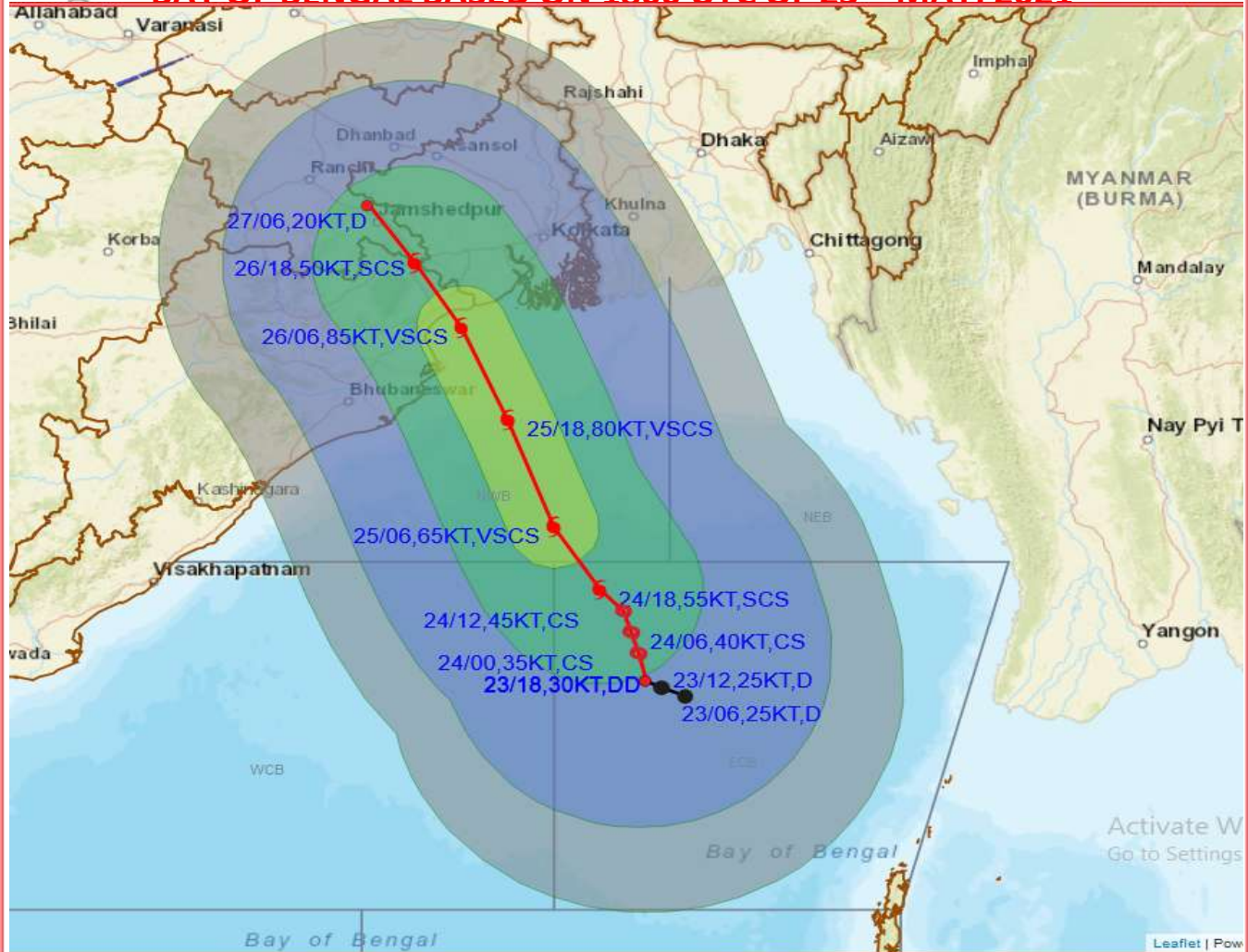


DATE/TIME IN UTC  
 IST=UTC + 0530  
 L: LOW PRESSURE AREA  
 WML: WELL MARKED LOW PRESSURE AREA  
 D: DEPRESSION (17-27 KT)  
 DD: DEEP DEPRESSION (28-33 KT)  
 CS: CYCLONIC STORM (34-47 KT)  
 SCS: SEVERE CYCLONIC STORM (48-63KT)  
 VSCS: VERY SEVERE CYCLONIC STORM (64-89 KT)  
 ESCS: EXTREMELY SEVERE 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



## OBSERVED AND FORECAST TRACK ALONGWITH QUADRANT WIND DISTRIBUTION OF DEEP DEPRESSION OVER EASTCENTRAL BAY OF BENGAL BASED ON 1800 UTC OF 23<sup>RD</sup> MAY. 2021



### 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)

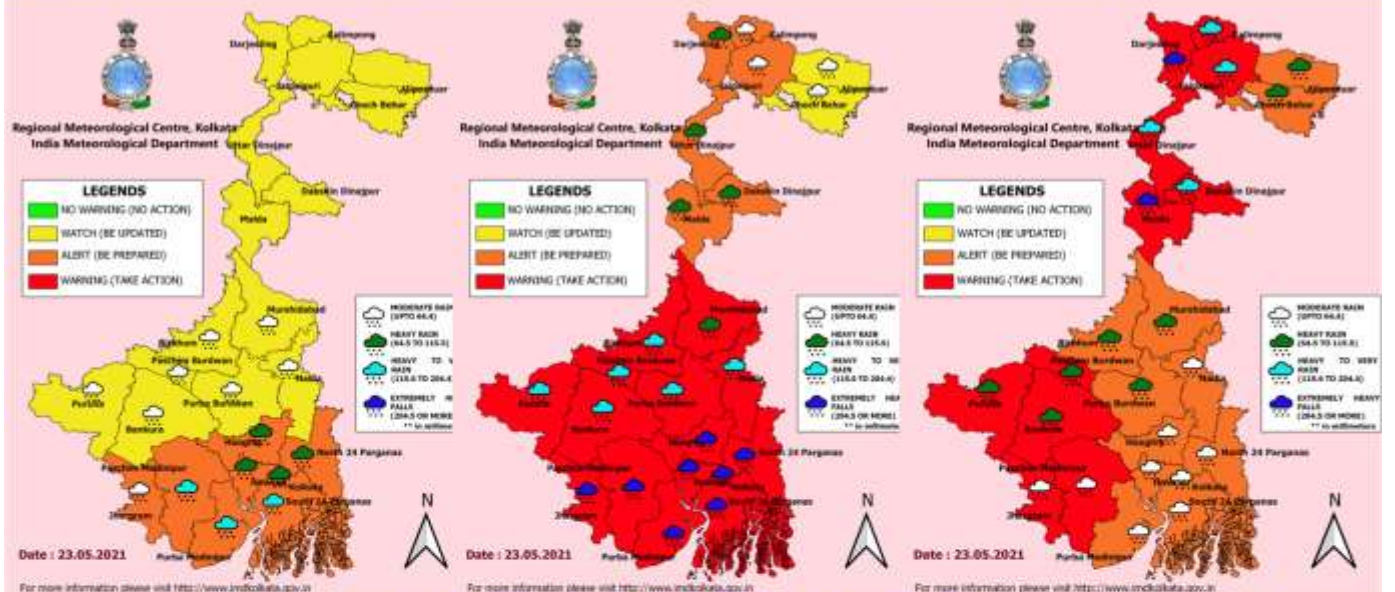
■ ≥ 64 KT (≥118 KMPH)

### IMPACT OVER THE SEA

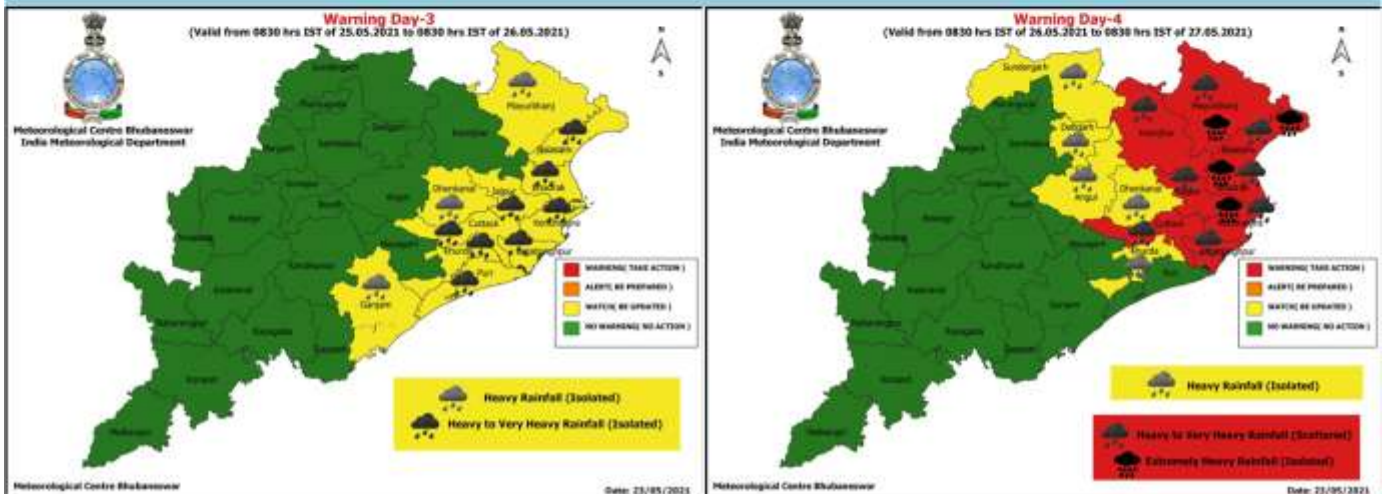
MSW (knot/kmph)	Impact	Action
28-33 (52-61)	Very rough seas	Total suspension of fishing operations
34-49 (62-91)	High to very high seas	Total suspension of fishing operations
50-63 (92-117)	Very high seas	Total suspension of fishing operations
≥ 64 (≥118)	Phenomenal	Total suspension of fishing operations

# Rainfall warning for West Bengal & Sikkim

HEAVY RAINFALL WARNING FOR WEST BENGAL, DATED-25.05 | HEAVY RAINFALL WARNING FOR WEST BENGAL, DATED-26.05 | HEAVY RAINFALL WARNING FOR WEST BENGAL, DATED-27.05.2021



# Rainfall forecast Odisha

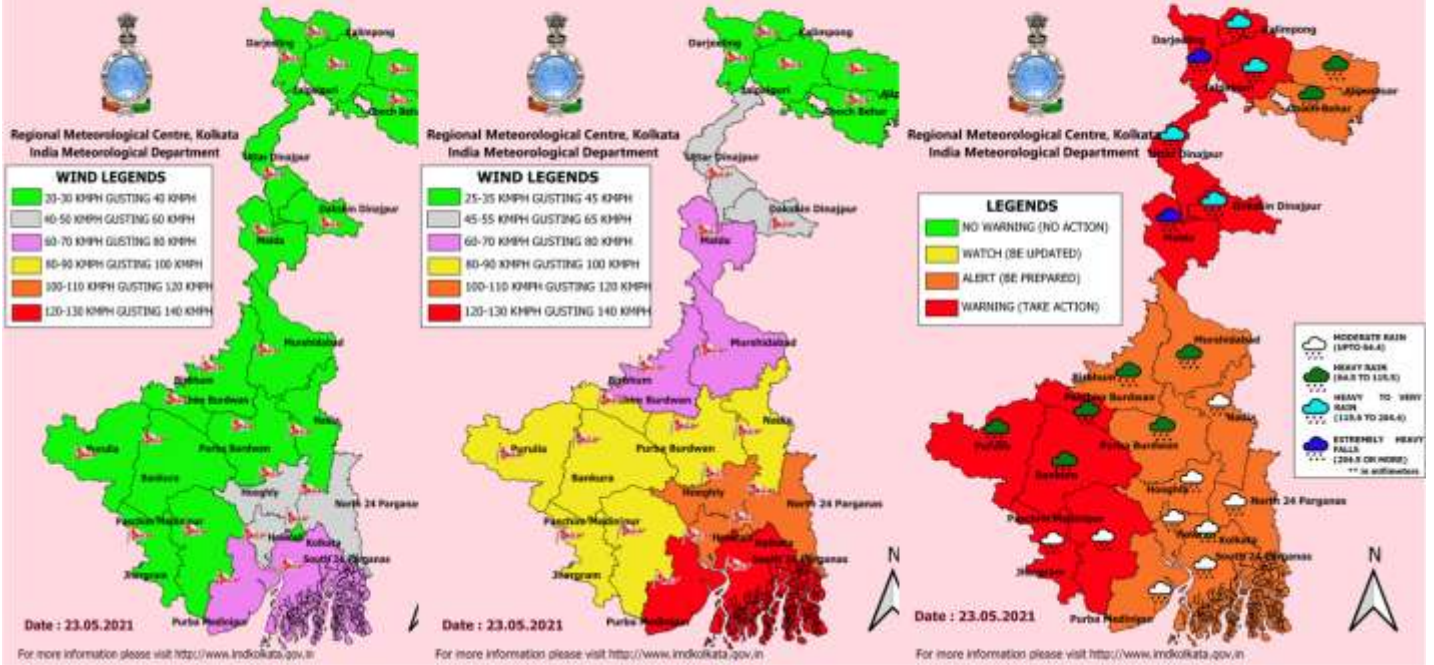


# Wind warning for West Bengal & Sikkim

WIND WARNING FOR WEST BENGAL, DATED-23.05.21

WIND WARNING FOR WEST BENGAL, DATED-26.05.2021

HEAVY RAINFALL WARNING FOR WEST BENGAL, DATED-27.05.2021



# Wind warning for Odisha

