

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

BULLETIN NO. : 01 (BOB/02/2021)

TIME OF ISSUE: 1350 HOURS IST

DATED: 23.05.2021

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)

Sub: Depression over eastcentral Bay of Bengal – (Pre-Cyclone watch for Odisha – West Bengal coasts).

Latest satellite imageries and Ocean Buoy observations indicate that yesterday's low pressure area which became well marked over eastcentral Bay of Bengal in the same evening has concentrated into a **Depression** over east-central Bay of Bengal and lay centred at 1130 hrs IST of today, the 23rd May, 2021 near latitude 16.1°N and longitude 90.2°E, about 560 km north-northwest of Port Blair (Andaman Islands), 590 km east-southeast of Paradip (Odisha), 690 km south-southeast of Balasore (Odisha) and 670 km south-southeast of Digha (West Bengal). It is very likely to move north-northwestwards and intensify into a **Cyclonic Storm** by 24th 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 West Bengal and north Odisha coasts by 26th May morning.

It is very likely to cross north Odisha - West Bengal between Paradip and Sagar islands by evening of 26th 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
23.05.21/1130	16.1/90.2	45-55 gusting to 65	Depression
23.05.21/2330	16.6/89.8	55-65 gusting to 75	Deep Depression

24.05.21/1130	17.3/89.6	70-80 gusting to 90	Cyclonic Storm
24.05.21/2330	17.6/89.3	90-100 gusting to 110	Severe Cyclonic Storm
25.05.21/1130	18.2/88.7	120-130 gusting to 145	Very Severe Cyclonic Storm
25.05.21/2330	19.7/88.1	145-155 gusting to 170	Very Severe Cyclonic Storm
26.05.21/1130	21.2/87.4	155-165 gusting to 185	Very Severe Cyclonic Storm
26.05.21/2330	22.0/86.9	100-110 gusting to 120	Severe Cyclonic Storm
27.05.21/1130	23.1/86.0	45-55 gusting to 65	Depression

Warnings:

(i) Rainfall:

•**Andaman & Nicobar Islands:** Light to moderate rainfall at most places with heavy to very heavy falls at isolated places on 23rd & 24th May.

•**Odisha:** Light to moderate rainfall at many places with heavy rainfall in the north coastal districts on 25th, 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 the districts of North Odisha namely Balasore, Bhadrak, Kendrapara, Mayurbhanj Jagatsinghpur, Cuttack, Jajpur, Keonjhar on 26th May.

• **West Bengal & Sikkim:** Light to moderate rainfall at most places heavy to very heavy rainfall over Medinipur, South & north 24 Parganas, Howrah and Hooghly in the coastal districts on 25th, 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 26th May and extremely heavy rain at isolated places in Malda & Darjeeling, heavy to very heavy rains in Dinajpur, Kalimpong, Jalpaiguri, Sikkim and heavy rain at a few places over Bankura, Purulia, Bardhaman, Bhirbhum & Murshidabad on 27th 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, Andaman Sea & adjoining eastcentral and southeast Bay of Bengal on 23rd May. It is very likely to increase becoming 55–65 kmph gusting to 75 kmph over eastcentral Bay of Bengal and adjoining north Andaman Sea from 23rd Night. It is very likely to increase further becoming Gale wind speed reaching 65 to 75 gusting to 85 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 along and off West Bengal & adjoining north Odisha and Bangladesh coasts. It would gradually increase further becoming 90-100 gusting to 110 kmph from 26th forenoon and increase thereafter till 26th evening.

(iii) Sea condition

- Sea conditions will be rough to very rough over Andaman Sea & adjoining eastcentral Bay of Bengal on 23rd & 24th 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 23rd & 24th 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 during 23rd – 24th May, into central Bay of Bengal from 23rd – 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 eastcentral & adjoining northeast Bay of Bengal are advised to return to the coast.

The next bulletin will be issued at 2030 hrs IST of 23rd May, 2021.

(Sunitha Devi.)
Scientist-F, RSMC, New Delhi

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

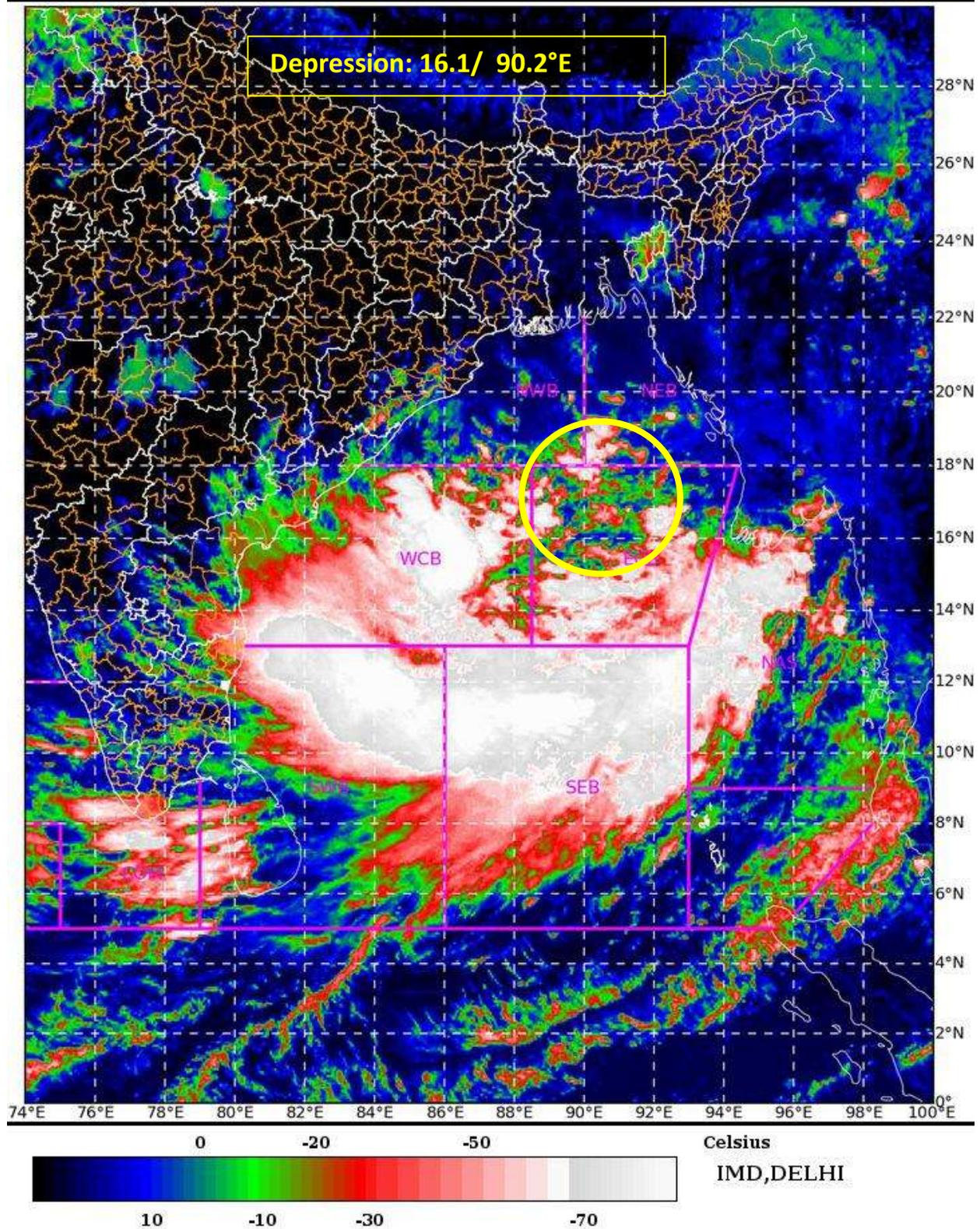
SAT : INSAT-3D IMG

23-05-2021/(0500 to 0526) GMT

IMG_TIR1_TEMP 10.8 um

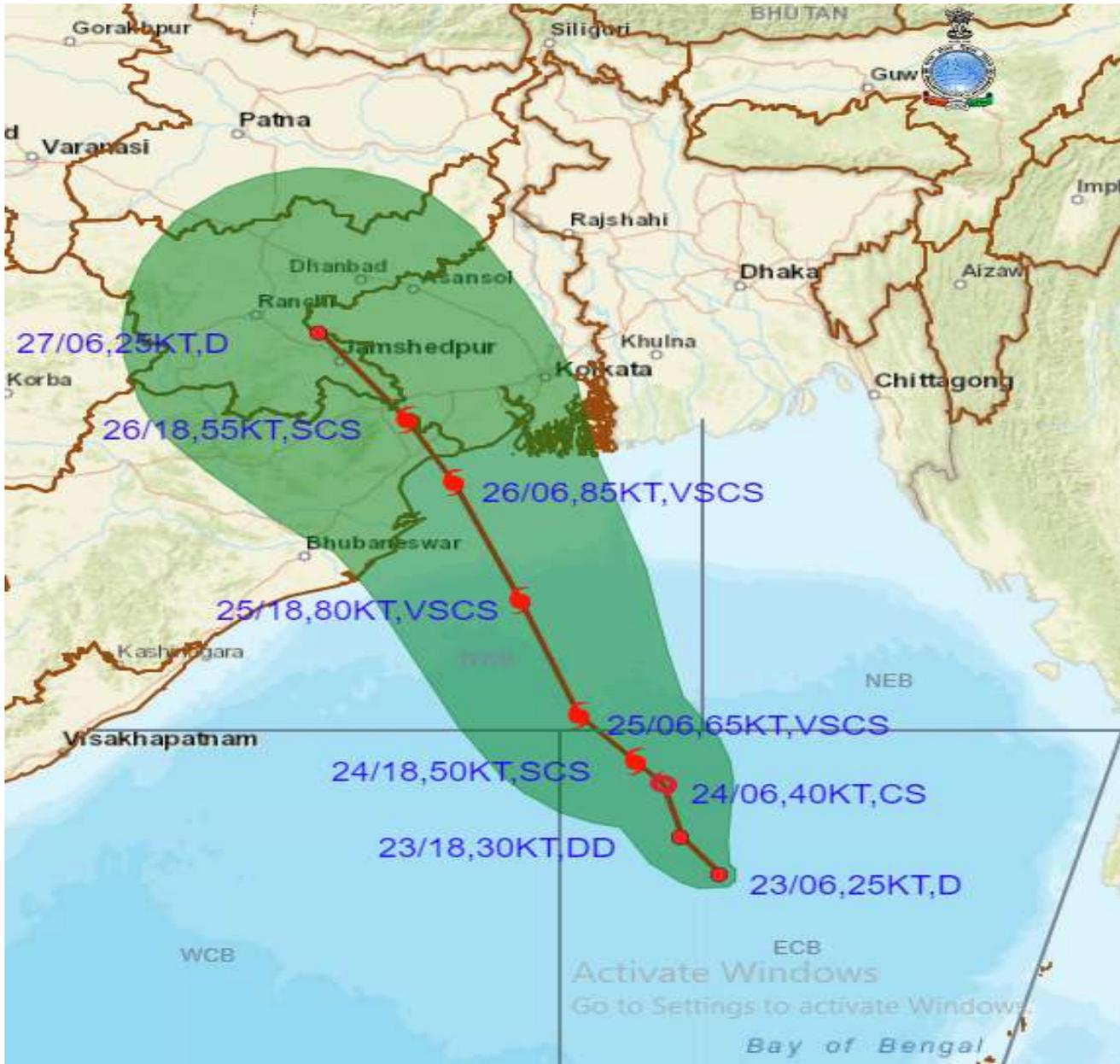
23-05-2021/(1030 to 1056) IST

L1C Mercator





OBSERVED AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINTY OF DEPRESSION OVER EASTCENTRAL BAY OF BENGAL BASED ON 0600 UTC OF 23RD 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

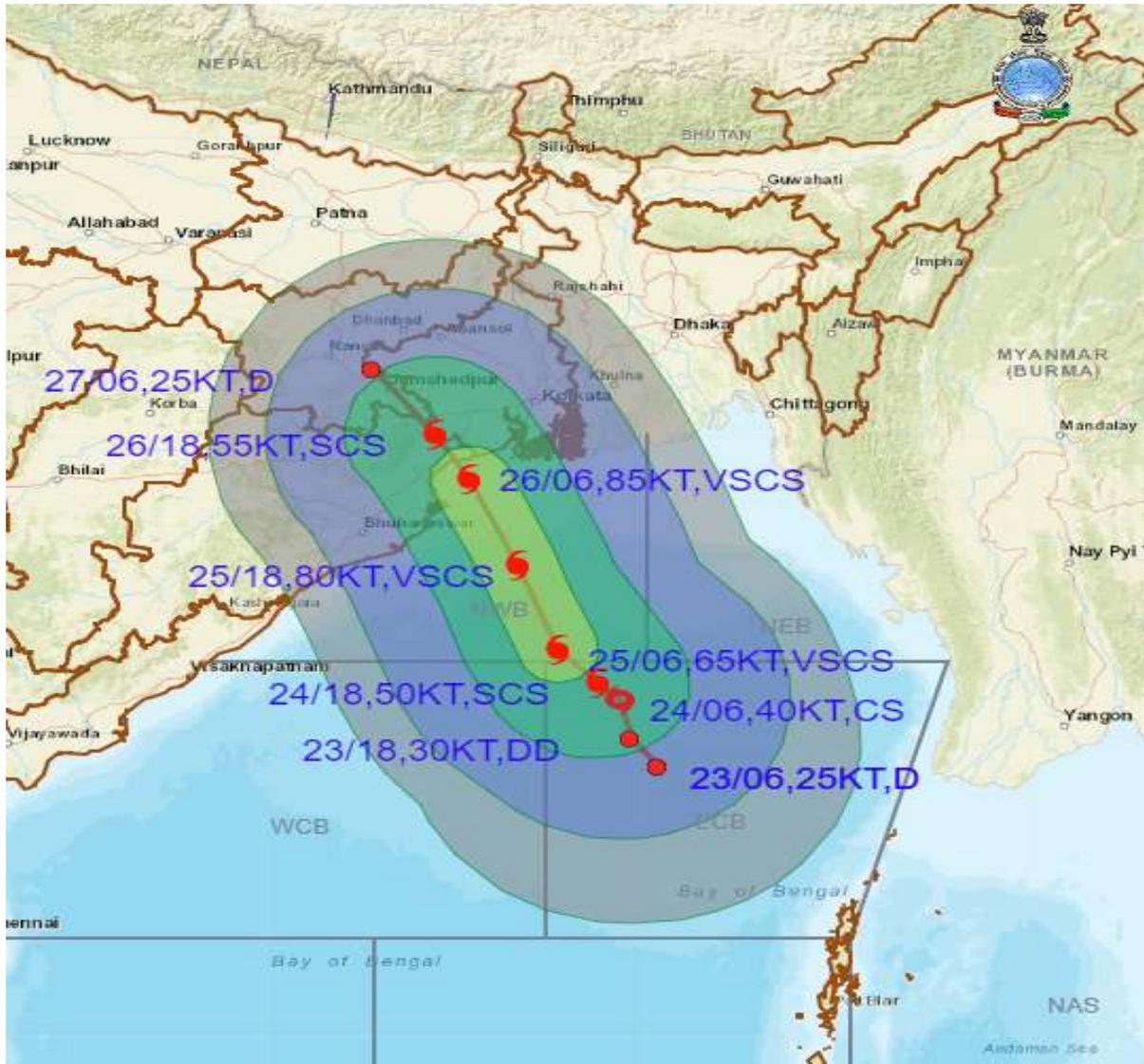
▬ OBSERVED TRACK

▬ FORECAST TRACK

▲ CONE OF UNCERTAINTY



OBSERVED AND FORECAST TRACK ALONGWITH QUADRANT WIND DISTRIBUTION OF DEPRESSION OVER EASTCENTRAL BAY OF BENGAL BASED ON 0600 UTC OF 23RD MAY, 2021

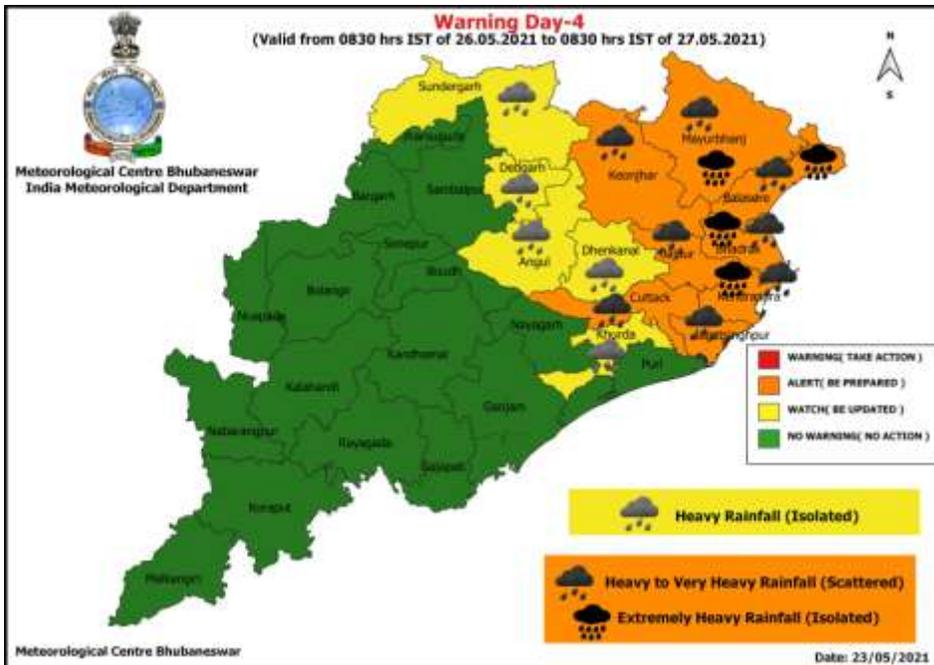
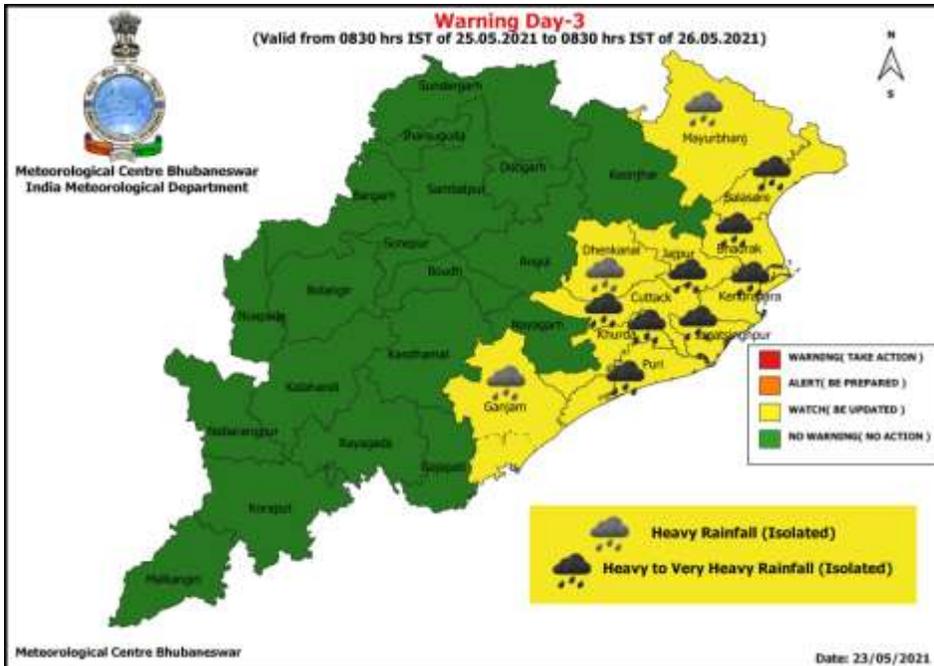


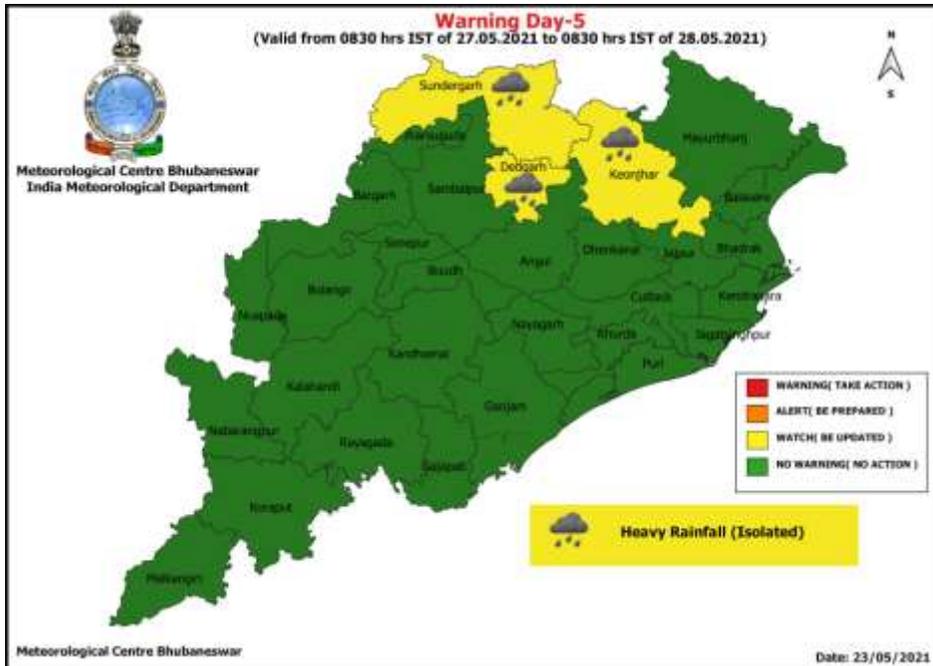
DATE/TIME IN UTC
 IST=UTC + 0530
 L: LOW PRESSURE AREA
 WML: WELL MARKED LOW PRESSURE AREA
 D: DEPRESSION (17-27 KT)
 DD: DEEP DEPRESSION (28-33 KT)
 CS: CYCLONIC STORM (34-47 KT)
 SCS: SEVERE CYCLONIC STORM (48-63KT)
 VSCS: VERY SEVERE CYCLONIC STORM (64-89 KT)
 ESCS: EXTREMELY SEVERE CYCLONIC STORM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

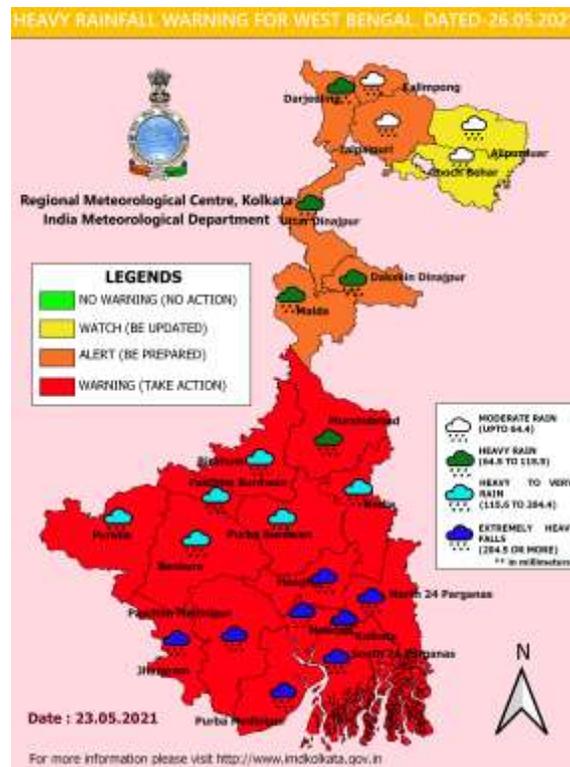
IMPACT OVER THE SEA

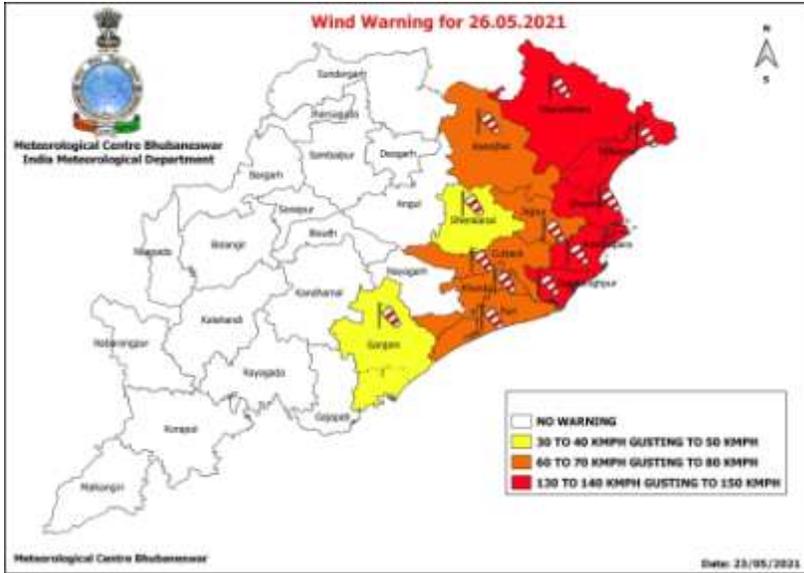
MSW (knot/kmph)	Impact	Action
28-33 (52-61)	Very rough seas	Total suspension of fishing operations
34-49 (62-91)	High to very high seas	Total suspension of fishing operations
50-63 (92-117)	Very high seas	Total suspension of fishing operations
≥ 64 (≥118)	Phenomenal	Total suspension of fishing operations





Heavy rainfall warnings West Bengal & Sikkim





Wind warnings – West Bengal

