

India Meteorological Department (Ministry of Earth Sciences)

HOURLY UPDATE ON SEVERE CYCLONIC STORM "DANA"

BULLETIN NO. 4

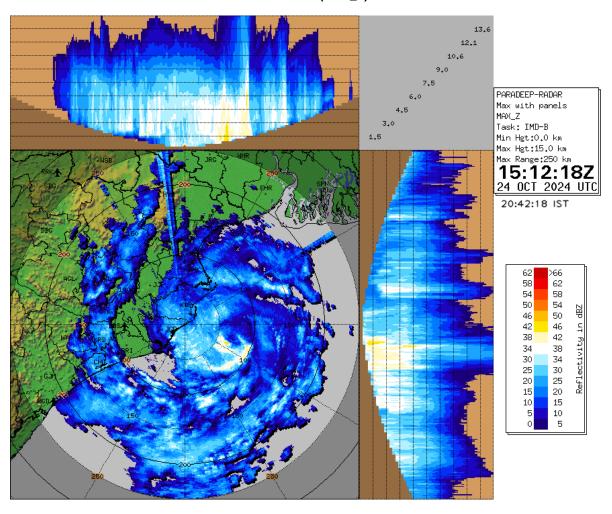
DATE: 24-10-2024 TIME OF ISSUE: 2115 HRS IST

DATE/TIME (IST) OF	BASED ON 24-10-2024 (2030 HRS IST)
` ′	DAGED ON 24-10-2024 (2030 HAS 131)
OBSERVATION	THE SELECT SHOULDING STORM (PLANE) (PROMOTED AS
LOCATION	THE SEVERE CYCLONIC STORM "DANA" (PRONOUNCED AS
LATITUDE/LONGITUDE	DANA) OVER NORTHWEST BAY OF BENGAL MOVED NORTH-
	NORTHWESTWARDS WITH A SPEED OF 15 KMPH DURING PAST
	6 HOURS AND LAY CENTRED AT 2030 HRS IST OF TODAY, THE
	24TH OCTOBER, OVER THE SAME REGION, NEAR LATITUDE 20.10° N AND LONGITUDE 87.30°E, ABOUT 70 KM EAST-
	SOUTHEAST OF PARADIP (ODISHA), 90 KM SOUTH-SOUTHEAST
	OF DHAMARA (ODISHA) AND 190 KM SOUTH-SOUTHWEST OF
	SAGAR ISLAND (WEST BENGAL).
	SAOAR ISLAND (WEST BENOAL).
CURRENT INTENSITY	SEVERE CYCLONIC STORM
WIND SPEED	105-115 KMPH GUSTING TO 125 KMPH
FORECAST	IT IS VERY LIKELY TO MOVE NORTH-NORTHWESTWARDS AND
	CROSS NORTH ODISHA AND WEST BENGAL COASTS BETWEEN
	PURI AND SAGAR ISLAND CLOSE TO BHITARKANIKA AND
	DHAMARA (ODISHA) DURING MID-NIGHT OF 24TH TO
	MORNING OF 25TH OCTOBER, 2024 AS A SEVERE CYCLONIC
	STORM WITH A WIND SPEED OF 100-110 KMPH GUSTING 120
	KMPH.
OBSERVED RAINFALL	BHUBANESWAR-15.1, BALASORE-18.8, CHANDBALI-29.6,
FROM 0830 HRS IST TO 2030 HRS IST (0300-1500	PARADIP-33.2, PURI-15
UTC) OF 24 TH OCT.	HALDIA-23.0, DIGHA-24.0, DIAMOND HARBOUR-14, DUMDUM-8
(mm)	
	PARADIP- 12KT/ NNWLY, BHUBANESWAR-
AT 2030 HRS IST (1500	06 KT/NWLY, BALASORE-08 KT/NELY,
UTC) OF 24 TH	CANNING & DUMDUM 08 & 10 KT/NELY
OCT.	HALDIA-5/ELY, DIGHA-6/ESELY, CANNING-
(KNOTS)	5/NLY, PURI-10/NNWLY

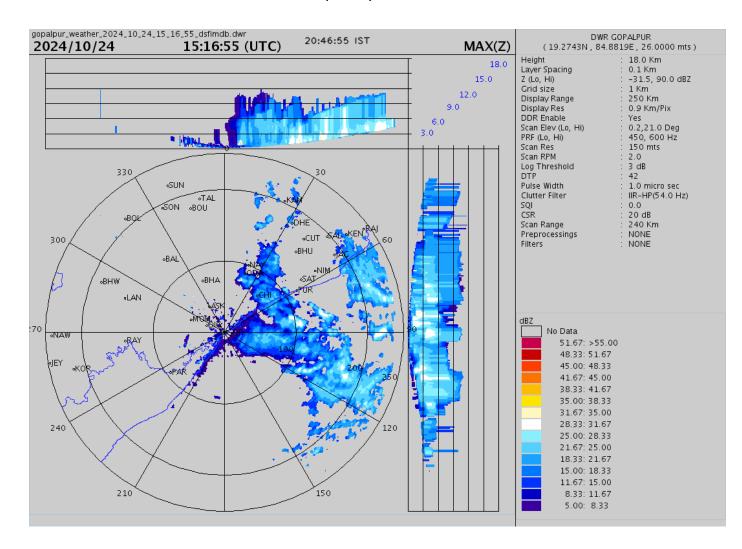
SATELLITE IMAGERY 24-10-2024/(1415 to 1442) GMT 24-10-2024/(1945 to 2012) IST SAT: INSAT-3DR IMG IMG_TIR1_TEMP 10.8 um L1C Mercator 26°N 24°N 22°N 20°N 18°N 16°N 14°N 10°N

Celsius IMD,DELHI

RADAR OBSERVATIONS (MAX_Z) OF DWR PARADIP

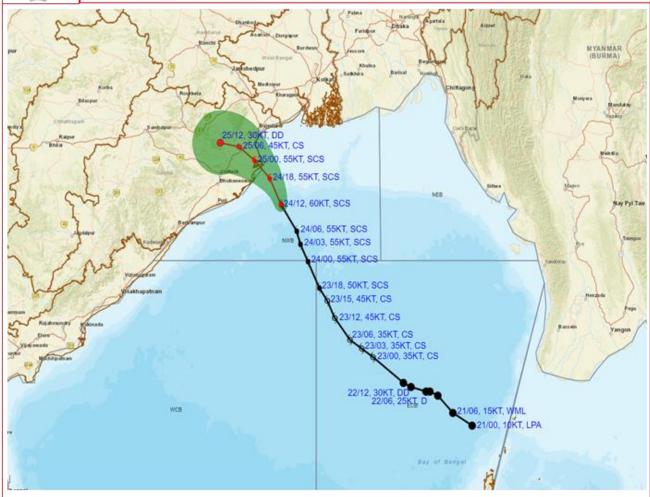


RADAR OBSERVATIONS (MAX_Z) OF DWR GOPALPUR





OBSERVED AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINITY OF SEVERE CYCLONIC STORM 'DANA' OVER NORTHWEST BAY OF BENGAL BASED ON 1200 UTC (1730 Hrs. IST) OF 24th OCTOBER 2024



DATE/TIME : IN UTC IST : UTC + 0530

KT : NAUTICAL MILE S/HOUR = 1.85 KM/HOUR

LPA : LOW PRESSURE AREA

WML : WELL MARKED LOW PRESSURE AREA

D : DEPRESSION (17-27KT)
DD : DEEP DEPRESSION (28-33 KT)
CS : CYCLONIC STORM (34-47KT)
SCS : SEVERECY CLONIC STORM (48-63 KT)

VSCS : VERY SEVERECY CLONIC 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

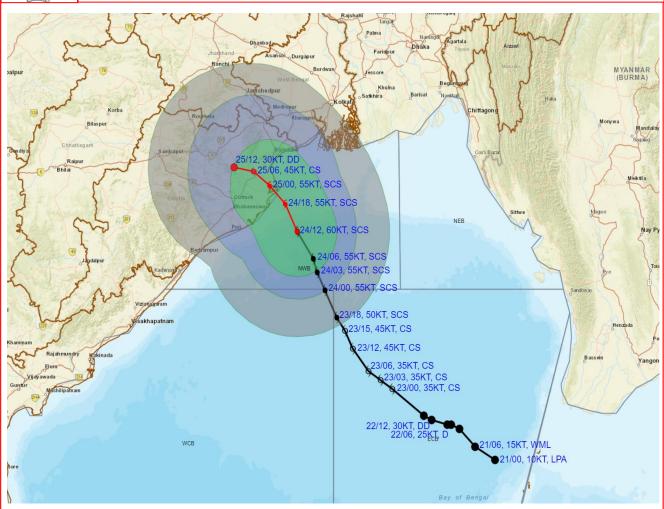
FORECAST TRACK

CONE OF UNCERTAINTY

Forecast	DISTANCE (KM) AND DIRECTION FROM STATIONS		
Date and Time (UTC)	PARADIP (CWR)	DHAMARA	SAGAR ISLAND
24.10.24/1200	100, ESE	130, SSE	210, SSW
25.10.24/1200	130, NW	110, WNW	230, WSW



OBSERVED AND FORECAST TRACK ALONGWITH QUADRANT WIND DISTRIBUTION OF SEVERE CYCLONIC STORM 'DANA' OVER NORTHWEST BAY OF BENGAL BASED ON 1200 UTC (1730 Hrs. IST) OF 24th OCTOBER 2024



DATE/TIME : IN UTC IST : UTC + 0530

KT : NAUTICAL MILE S/HOUR = 1.85 KM/HOUR

LPA : LOW PRE SSURE ARE A

WML : WELL MARKED LOW PRE SSURE AREA

D : DE PRE SSION (17-27 K T)
DD : DE EP DE PRE SSION (28-33 K T)
CS : CYCLONIC STORM (34-47 K T)

SCS : SEVERECY CLONIC STORM (48-63 KT)
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SuCS : SUPER CYCLONIC STORM (≥120 KT)

LESS THAN 34 KT

6 34.47 KT 6 ≥ 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
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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