



# REGIONALSPECIALISED METEOROLOGICALCENTRE-TROPICAL CYCLONES, NEW DELHI TROPICAL CYCLONE ADVISORY NO. 15

#### **DEMS-RSMCSPECIAL TROPICAL CYCLONES NEW DELHI DATED 27.05.2024**

FROM: RSMC -TROPICAL CYCLONES, NEW DELHI

TO:

STORM WARNING CENTRE, NAYPYI TAW (MYANMAR)
STORM WARNING CENTRE, BANGKOK (THAILAND)
STORM WARNING CENTRE, COLOMBO (SRILANKA)
STORM WARNING CENTRE, DHAKA (BANGLADESH)
STORM WARNING CENTRE, KARACHI (PAKISTAN)
METEOROLOGICAL OFFICE, MALE (MALDIVES)
OMAN METEOROLOGICAL DEPARTMENT,
MUSCAT (THROUGH RTH JEDDAH)
YEMEN METEOROLOGICAL SERVICES,
REPUBLIC OF YEMEN (THROUGH RTH JEDDAH)
NATIONAL CENTRE FOR METEOROLOGY, UAE (THROUGH RTH JEDDAH)
PRESIDENCY OF METEOROLOGY AND ENVIRONMENT,
SAUDI ARABIA (THROUGH RTH JEDDAH)
IRAN METEOROLOGICAL ORGANISATION, (THROUGH RTH JEDDAH)
QATAR METEOROLOGICAL DEPARTMENT (THROUGH RTH JEDDAH)

TROPICAL CYCLONE ADVISORY NO. 15 FOR NORTH INDIAN OCEAN (THE BAY OF BENGAL AND ARABIAN SEA) VALID FOR NEXT 120 HOURS ISSUED AT 0900 UTC OF 27.05.2024 BASED ON 0600 UTC OF 27.05.2024

SUB: CYCLONIC STORM "REMAL" PRONOUNCED AS "RE-MAL" OVER BANGLADESH AND ADJOINING WEST BENGAL

THE CYCLONIC STORM "REMAL" (PRONOUNCED AS "RE-MAL") OVER COASTAL BANGLADESH AND ADJOINING COASTAL WEST BENGAL MOVED NEARLY NORTHWARDS, WITH A SPEED OF 8 KMPH DURING PAST 06 HOURS AND LAY CENTERED AT 0600 UTC OF TODAY, THE 27<sup>TH</sup> MAY, 2024 OVER BANGLADESH AND ADJOINING WEST BENGAL, NEAR LATITUDE 23.0°N AND LONGITUDE 89.2°E ABOUT 65 KM NORTHWEST OF MONGLA (41958,BANGLADESH), 110 KM NORTHEAST OF KOLKATA (42807,WEST BENGAL), 100 KM NORTH-NORTHEAST OF CANNING (42812,WEST BENGAL), 150 KM NORTHWEST OF KHEPUPARA (41984,BANGLADESH) AND 150 KM SOUTHWEST OF DHAKA (41923,BANGLADESH).

THE SYSTEM IS LIKELY TO MOVE NORTH-NORTHEASTWARDS, AND GRADUALLY WEAKEN FURTHER INTO DEEP DEPRESSION BY 1200 UTC OF TODAY, THE 27<sup>TH</sup> MAY 2024. THE CYCLONE IS UNDER THE CONTINUOUS SURVEILLANCE OF KOLKATA DOPPLER WEATHER RADAR.

#### FORECAST TRACK AND INTENSITY ARE GIVEN IN THE FOLLOWING TABLE:

DATE/TIME	POSITION	MAXIMUM SUSTAINED SURFACE	CATEGORY OF CYCLONIC	
(UTC)	(LAT. ºN/ LONG. ºE)	WIND SPEED (KMPH)	DISTURBANCE	
27.05.24/0600	23.0/89.2	65-75 GUSTING TO 85	CYCLONIC STORM	
27.05.24/1200	23.6/89.4	50-60 GUSTING TO 70	DEEP DEPRESSION	
27.05.24/1800	24.2/90.0	40-50 GUSTING TO 60	DEPRESSION	
28.05.24/0000	24.8/90.7	35-45 GUSTING TO 55	DEPRESSION	
28.05.24/0600	25.4/91.5	25-35 GUSTING TO 45	WELL MARKED LOW PRESSURE AREA	

AS PER INSAT-3D IMAGERY VORTEX (REMAL) IS LOCATED OVER SOUTH BANGLADESH & NEIGHBOURHOOD. ASSOCIATED BROKEN LOW/MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION OVER NORTH BAY OF BENGAL (CLOUD TOP TEMPERATURE IS -93 DEG CEL) COASTAL ODISHA, GANGETIC WEST BENGAL, MIZORAM, TRIPURA AND BANGLADESH.

AS PER LATEST OBSERVATIONS, ESTIMATED CENTRAL PRESSURE IS 980 HPA AT 0600 UTC OF  $27^{\text{TH}}$  MAY.ESTIMATED MAXIMUM SUSTAINED WIND SPEED IS 35 KNOTS GUSTING TO 45 KNOTS. THE CYCLONE IS UNDER THE CONTINUOUS SURVEILLANCE OF KOLKATA DOPPLER WEATHER RADAR.

# **WARNINGS (GRAPHICS ATTACHED):**

#### **HEAVY RAINFALL WARNING:**

- (A) WEST BENGAL: LIGHT TO MODERATE RAINFALL AT MOST PLACES WITH HEAVY TO VERY HEAVY RAINFALL AT A FEW PLACES IS LIKELY OVER COASTAL DISTRICTS OF WEST BENGAL AND EASTERN DISTRICTS OF GANGETIC WEST BENGAL ADJACENT TO BANGLADESH ON 27<sup>TH</sup> MAY. THE PEAK RAINFALL ACTIVITY IS LIKELY TILL NOON OF 27<sup>TH</sup> MAY.LIGHT TO MODERATE RAINFALL AT MOST PLACES WITH HEAVY TO VERY HEAVY RAINFALL AT ISOLATED PLACES LIKELY OVER EASTERN DISTRICTS OF SUB-HIMALAYAN WEST BENGAL ON 27<sup>TH</sup> AND 28<sup>TH</sup> MAY.
- (B) NORTHEASTERN STATES: LIGHT TO MODERATE RAINFALL AT MOST PLACES WITH HEAVY TO VERY HEAVY RAINFALL AT ISOLATED PLACES IS LIKELY OVER ASSAM, MEGHALAYA, ARUNACHAL PRADESH, NAGALAND, MIZORAM, MANIPUR & TRIPURA ON  $27^{\text{TH}}$  &  $28^{\text{TH}}$  MAY. ISOLATED EXTREMELY HEAVY RAINFALL (> 20 CM) IS ALSO LIKELY OVER ASSAM, MEGHALAYA ON  $27^{\text{TH}}$  &  $28^{\text{TH}}$  MAY, ARUNACHAL PRADESH ON  $28^{\text{TH}}$  MAY AND MIZORAM & TRIPURA ON  $27^{\text{TH}}$  MAY.

#### **WIND WARNING:**

# (A) BAY OF BENGAL

PREVAILING GALE WIND SPEED REACHING 65-75 KMPH GUSTING TO 85 KMPH TO BECOME SQUALLY WIND SPEED REACHING 50-60 KMPH GUSTING TO 70 KMPH BY EVENING OF  $27^{\text{TH}}$  MAY.

**SQUALLY WIND SPEED REACHING 40-50 KMPH GUSTING TO 60 KMPH** WILL CONTINUE TO PREVAIL OVER ADJOINING CENTRAL BAY OF BENGAL TILL EVENING OF 27<sup>TH</sup> MAY.

# (B) ALONG & OFF BANGLADESH AND WEST BENGAL COASTS

GALE WIND SPEED REACHING 65-75 KMPH GUSTING TO 85 KMPH WILL CONTINUE TO PREVAIL ALONG & OFF BANGLADESH AND ADJOINING WEST BENGAL COASTS DURING NEXT 3 HOURS. IT IS LIKELY TO DECREASE BECOMING SQUALLY WIND REACHING 50-60 KMPH GUSTING TO 70 KMPH BY EVENING OF  $27^{\text{TH}}$  MAY AND DECREASE GRADUALLY THEREAFTER.

GALE WIND SPEED REACHING 60-70 KMPH GUSTING TO 80 KMPH WILL CONTINUE TO PREVAIL OVER HOWRAH, HOOGLY & KOLKATA, OVER EAST MEDINIPUR DURING NEXT 6 HOURS AND DECREASE GRADUALLY THEREAFTER.

### (C) ALONG & OFF NORTH ODISHA COASTS

**SQUALLY WIND SPEED REACHING 40-50 KMPH GUSTING TO 60 KMPH** IS LIKELY TO PREVAIL DURING NEXT 6 HOURS AND DECREASE GRADUALLY THEREAFTER.

### (D) NORTHEASTERN STATES

SQUALLY WIND SPEED REACHING 50-60 KMPH GUSTING TO 70 KMPH IS LIKELY OVER MIZORAM TRIPURA & SOUTH MANIPUR ON 27<sup>TH</sup> MAY AND 40-50 KMPH GUSTING TO 60 KMPH IS LIKELY OVER SOUTH ASSAM AND MEGHALAYA ON 27<sup>TH</sup> MAY

#### **SEA CONDITION WARNING:**

### (A) NORTH BAY OF BENGAL

PREVAILING HIGH SEA CONDITION IS LIKELY TO IMPROVE GRADUALLY BECOMING VERY ROUGH TO ROUGH BY EVENING OF  $27^{TH}$  MAY AND GRADUALLY IMPROVE THEREAFTER.

### (B) ALONG & OFF BANGLADESH AND WEST BENGAL COASTS

PREVAILING HIGH SEA CONDITION ALONG & OFF BANGLADESH AND WEST BENGAL COASTS IS LIKELY TO GRADUALLY IMPROVE BECOMING VERY ROUGH TO ROUGH BY EVENING OF 27TH MAY AND GRADUALLY IMPROVE THEREAFTER.

### (C) ALONG &OFF NORTH ODISHA COAST

ROUGH SEA CONDITION IS LIKELY ALONG & OFF NORTH ODISHA COAST DURING NEXT 6 HOURS AND IMPROVE THEREAFTER.

# (D) CENTRAL BAY OF BENGAL

ROUGH SEA CONDITION IS LIKELY TO PREVAIL OVER CENTRAL BAY OF BENGAL DURING NEXT 6 HOURS AND IMPROVE THEREAFTER.

#### FISHERMEN WARNING (GRAPHICS ATTACHED):

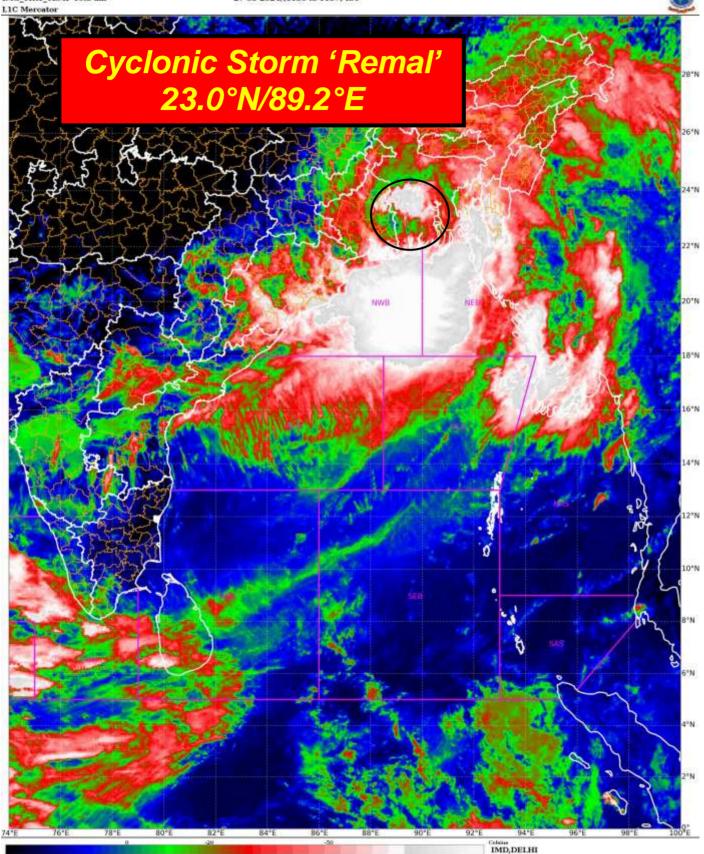
FISHERMEN ARE ADVISED NOT TO VENTURE INTO NORTH BAY OF BENGAL ALONG AND OFF WEST BENGAL AND BANGLADESH COASTS ON  $27^{TH}$  MAY

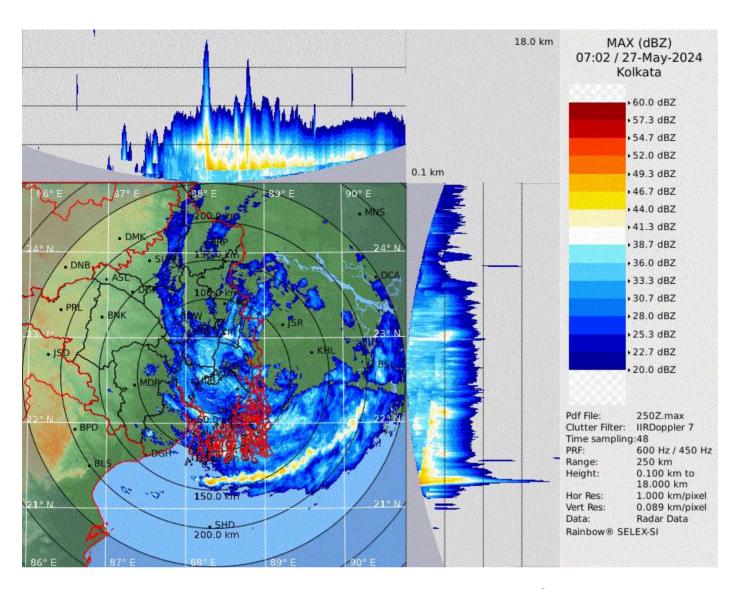
# **REMARKS**

LOW LEVEL VORTICITY IS ABOUT 250x10<sup>-5</sup>S<sup>-1</sup> OVER NORTH BAY OF BENGAL & ADJOINING COASTAL BANGLADESH AND WEST BENGAL WITH VERTICAL EXTENSION UPTO 200 HPA LEVEL. LOW LEVEL CONVERGENCE IS ABOUT 40x10<sup>-5</sup> S<sup>-1</sup> TO THE SOUTH OF THE SYSTEM CENTER. UPPER-LEVEL DIVERGENCE IS ABOUT 20x10<sup>-5</sup>S<sup>-1</sup> TO THE EAST OF THE SYSTEM CENTRE. VERTICAL WIND SHEAR (VWS) IS LOW (05-10 KT) ALONG THE FORECAST TRACK.

THE SYSTEM IS LIKELY TO MOVE NEARLY NORTH-NORTHEASTWARDS AND GRADUALLY WEAKEN.

AKHIL SRIVASTAVA SCIENTIST D RSMC NEW DELHI

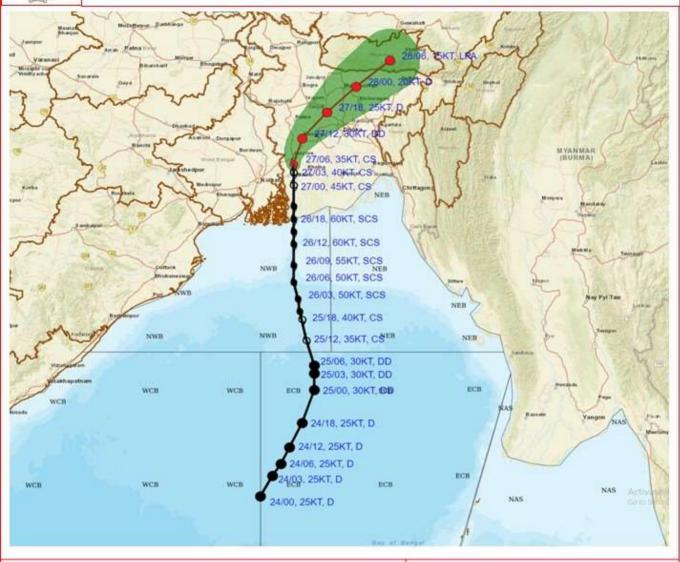




Kolkata Radar Image 0700 UTC of today, the  $27^{th}$  May



FORECAST TRACK ALONGWITH CONE OF UNCERTAINITY IN ASSOCIATION WITH CYCLONIC STORM 'REMAL' OVER BANGLADESH AND ADJOINING WEST BENGAL BASED ON 0600 UTC (1130 IST) OF 27TH MAY 2024.



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)

1	•	LESS THAN 34 KT
	6	34-47 KT
	9	≥ 48 KT
		OBSERVED TRACK
		FORECAST TRACK
		CONE OF UNCERTAINTY

Forecast	DISTANCE (KM) AND DIRECTION FROM STATIONS					
Date and Time (UTC)	Canning	Khepupara	Sagar Island	Mongla		
27.05.24/0600	100, NNE	160, NW	200, NE	60, NW		
27.05.24/1200	170, NNE	200, NNW	260, NNE	120, N		
27.05.24/1800	260, NNE	250, N	350, NE	190, NNE		
28.05.24/0000	360, NE	320, N	450, NE	280, NNE		
28.05.24/0600	460, NE	410, NNE	550, NE	380, NNE		

