REGIONAL SPECIALISED METEOROLOGICAL CENTRE-TROPICAL CYCLONES, NEW DELHI

TROPICAL WEATHER OUTLOOK

DEMS-RSMC TROPICAL CYCLONES NEW DELHI DATED 18.10.2023

TROPICAL WEATHER OUTLOOK FOR NORTH INDIAN OCEAN (THE BAY OF BENGAL AND THE ARABIAN SEA) VALID FOR NEXT 168 HOURS ISSUED AT 0600 UTC OF 18.10.2023 BASED ON 0300 UTC OF 18.10.2023.

SUB: (A) LOW PRESSURE AREA OVER SOUTHEAST AND ADJOINING EASTCENTRAL ARABIAN SEA AND (B) CYCLONIC CIRCULATION OVER SOUTHEAST BAY OF BENGAL

ARABIAN SEA:

LOW PRESSURE AREA OVER SOUTHEAST AND ADJOINING EASTCENTRAL ARABIAN SEA

UNDER THE INFLUENCE OF CYCLONIC CIRCULATION OVER SOUTHEAST ARABIAN SEA & ADJOINING LAKSHADWEEP AREA, A LOW-PRESSURE AREA FORMED OVER SOUTHEAST & ADJOINING EASTCENTRAL ARABIAN SEA AT 0000 UTC AND LAY OVER THE SAME REGION AT 0300 UTC OF TODAY, THE 18TH OCTOBER, 2023.

IT IS LIKELY TO MOVE WEST-NORTHWESTWARDS AND BECOME WELL MARKED LOW PRESSURE AREA OVER EASTCENTRAL & ADJOINING SOUTHEAST ARABIAN SEA DURING NEXT 24-HOURS AND INTENSIFY INTO A DEPRESSION OVER CENTRAL ARABIAN SEA AROUND 21ST OCTOBER.

ASSOCIATION SCATTERED TO BROKEN LOW AND MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION LAY OVER SOUTHEAST AND ADJOINING EASTCENTRAL ARABIAN SEA BETWEEN LATITUDE 8.0N & 14.0N AND LONGITUDE 64.0E & 70.0E (THE MINIMUM CLOUD TOP TEMPERATURE IS MINUS 80 DEG CELSIUS). SCATTERED TO BROKEN LOW AND MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION LAY OVER SOUTHEAST ARABIAN SEA AND MODERATE TO INTENSE CONVECTION LAY OVER EASTCENTRAL ARABIAN SEA, LAKSHADWEEP ISLANDS AREA AND COMORIN AREA.

ASSOCIATED MAXIMUM SUSTAINED WIND SPEED IS 10-15 KNOTS GUSTING TO 20 KNOTS. THE ESTIMATED CENTRAL PRESSURE IS 1010 HPA.

PROBABILITY OF CYCLOGENESIS (FORMATION OF DEPRESSION) DURING NEXT 168 HRS:

24 HOURS	24-48 HOURS	48-72 HOURS	72-96 HOURS	96-120 HOURS	120-144 HOURS	144-168 HOURS
NIL	NIL	LOW	MOD	HIGH	-	-

"-" indicate that cyclogenesis has already occurred. The above table indicates probability of cyclogenesis (formation of depression).

Cloud distribution: (a) Isolated: <25%, Scattered:25-50%, Broken: 51-75%, Solid:>75%, Convection Intensity: (a) Weak: Cloud Top Temperature (CTT) >-25°C, (b) Moderate: CTT: - 25°C to -40°C, (c) Intense: CTT: - 41°C to -70°C and (d) Very Intense: : Less than -70°C PROBABILITY OF CYCLOGENESIS (FORMATION OF DEPRESSION):NIL: 0%, LOW: 1-33%, , MODERATE: 34-66% AND HIGH: 67-100% This is a guidance Bulletin for WMO/ESCAP Panel Member countries. Visit respective National websites for Country specific Bulletins

BAY OF BENGAL:

A CYCLONIC CIRCULATION IN LOWER TROPOSPHERIC LEVELS LAY OVER SOUTHEAST BAY OF BENGAL AT 0300 UTC OF TODAY, THE 18TH OCTOBER, 2023. IT IS LIKELY TO MOVE NORTHWESTWARDS AND UNDER ITS INFLUENCE A LOW PRESSURE AREA IS LIKELY TO FORM OVER CENTRAL PARTS OF BAY OF BENGAL AROUND 20TH OCTOBER.

SCATTERED TO BROKEN LOW AND MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION LAY OVER SOUTHWEST BAY OF BENGAL AND MODERATE TO INTENSE CONVECTION LAY OVER SOUTHEAST & EASTCENTRAL BAY OF BENGAL AND ANDAMAN SEA.

PROBABILITY OF CYCLOGENESIS (FORMATION OF DEPRESSION) DURING NEXT 168 HRS:

24 HOURS	24-48 HOURS	48-72 HOURS	72-96 HOURS	96-120 HOURS	120-144 HOURS	144-168 HOURS
NIL	NIL	NIL	NIL	NIL	LOW	MOD

Remarks:

ARABIAN SEA: MODELS LIKE ECMWF AND NCEP GFS ARE INDICATING LIKELY INTENSIFICATION OF THE LOW PRESSURE AREA OVER SOUTHEAST & ADJOINING EASTCENTRAL ARABIAN SEA INTO A DEPRESSION AROUND 21ST OCTOBER. THESE MODELS ARE ALSO INDICATING FURTHER INTENSIFICATION OF THIS SYTEM INTO A VERY SEVERE CATEGRY CYCLONIC STORM. ECMWF IS INDICATING CROSSING OVER OMAN-YEMEN COASTS AND NCEP GFS IS INDICATING CROSSING OVER PAKISTAN-SAURASHTRA COASTS. IMD GFS AND NCUM ARE INDICATING NO SIGNIFICANT INTENSIFICATION OF THIS SYSTEM.

BAY OF BENGAL: MOST OF THE MODELS (ECMWF, IMD GFS, NCEP GFS, NCUM) ARE INDICATING THE FORMATION OF DEPRESSION AROUND 24TH OCTOBER. NCEP GFS AND NCUM ARE INDICATING MOVEMENT TOWARDS SOUTH BANGLADESH – NORTH MYANMAR COASTS WHILE IMD GFS AND ECMWF ARE INDICATING MOVEMENT TOWARDS NORTH ANDHRA PRADESH-SOUTH ODISHA COASTS.

(M SHARMA)
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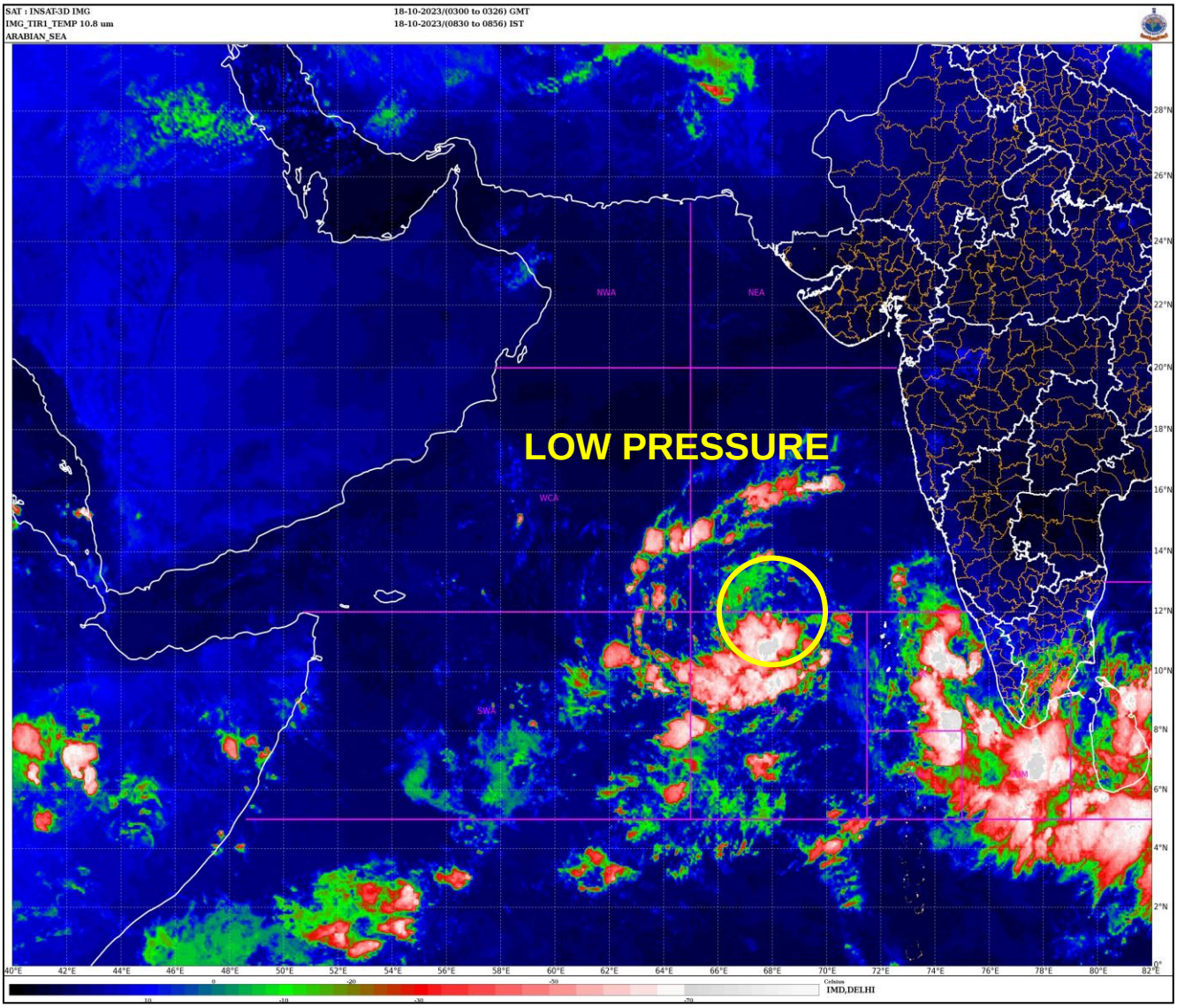
RSMC NEW DELHI



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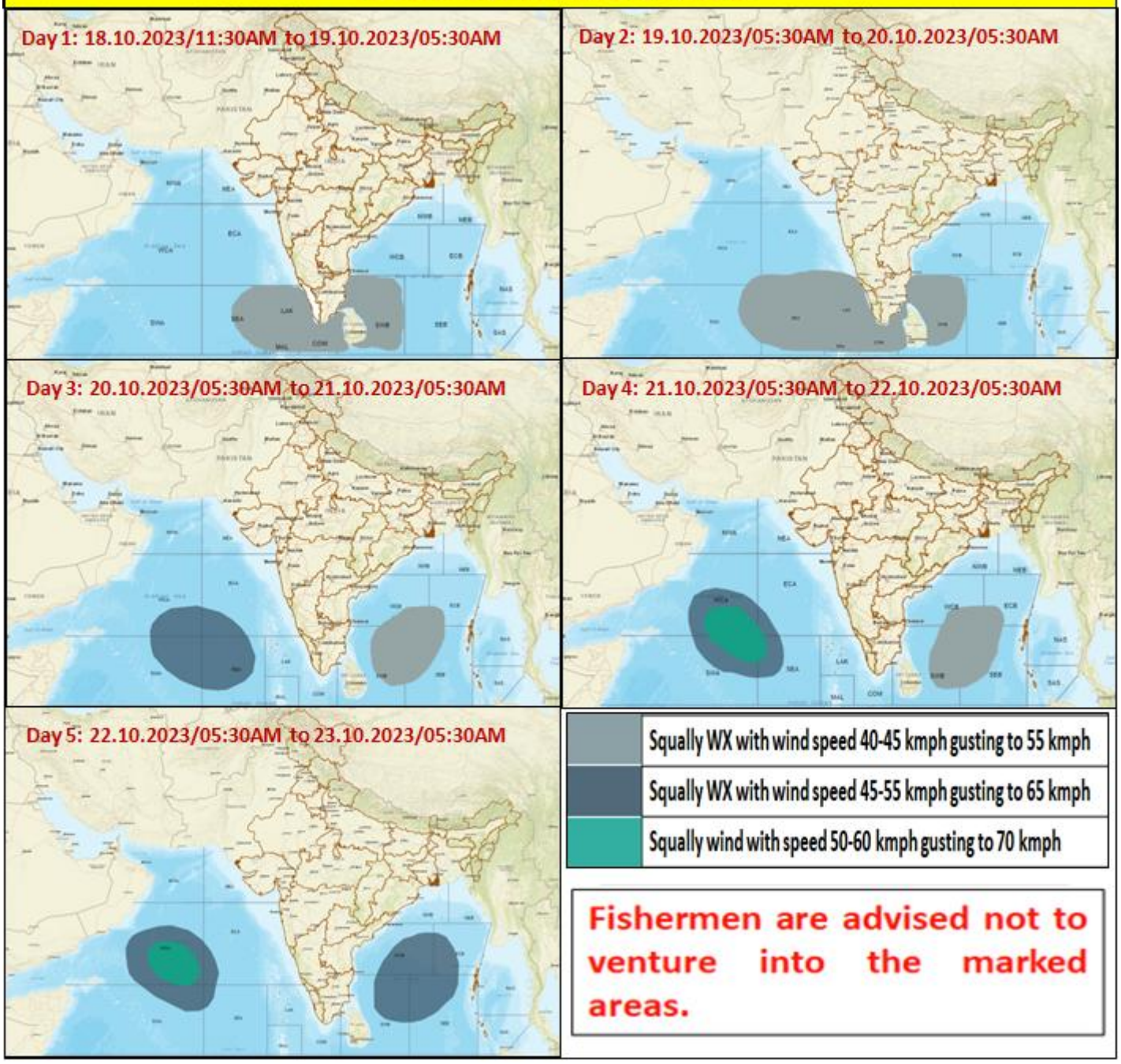
Fishermen warning graphics



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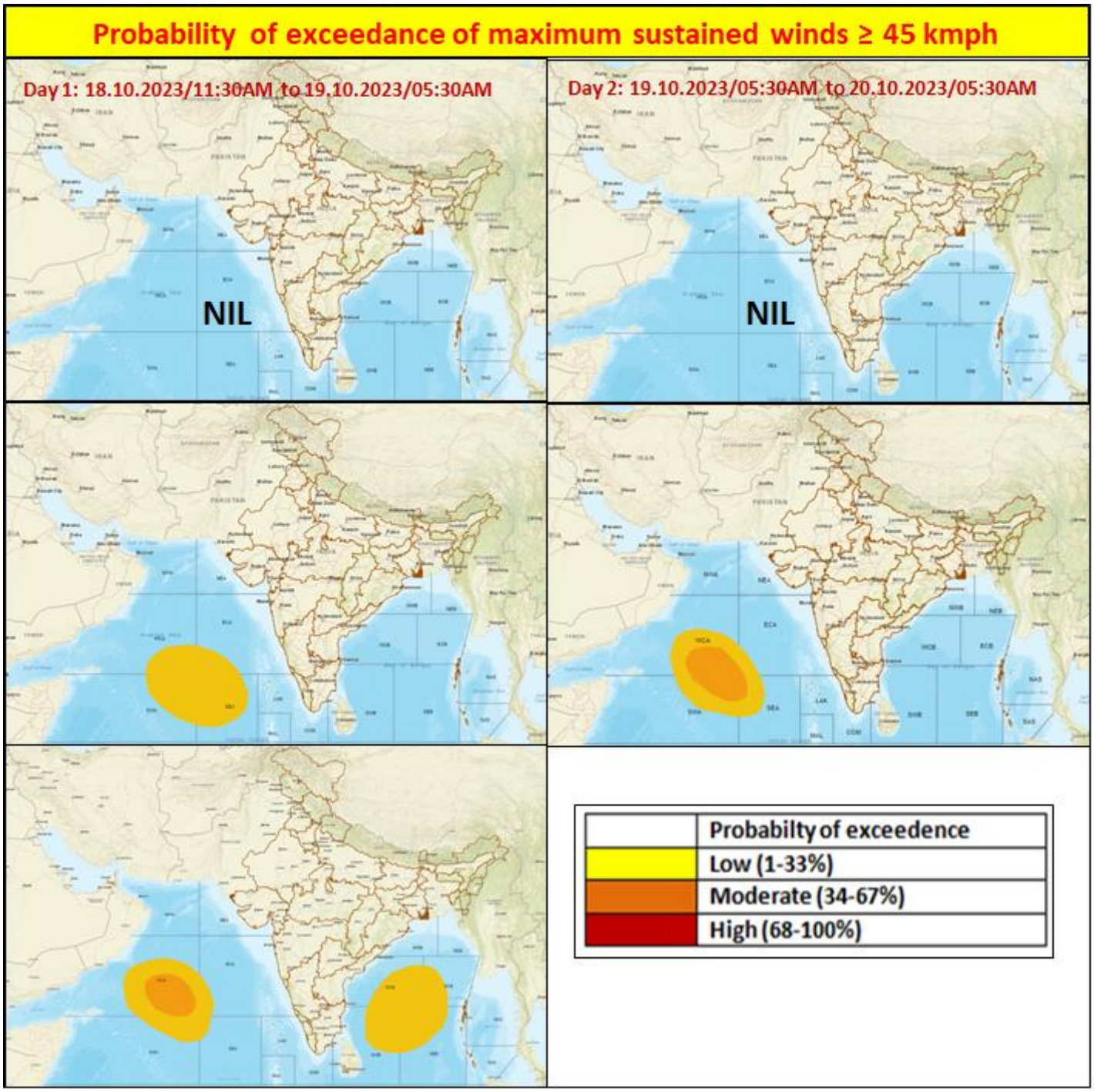

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