REGIONAL SPECIALISED METEOROLOGICAL CENTRE-TROPICAL CYCLONES, NEW DELHI

TROPICAL WEATHER OUTLOOK

DEMS-RSMC TROPICALCYCLONES NEW DELHI DATED 18.10.2022

TROPICAL WEATHER OUTLOOK FOR NORTH INDIAN OCEAN (THE BAY OF BENGAL AND ARABIAN SEA) VALID FOR NEXT 120 HOURS ISSUED AT 0600 UTC OF 18.10.2022 BASED ON 0300 UTC OF 18.10.2022.

BAY OF BENGAL:

YESTERDAY'S CYCLONIC CIRCULATION OVER SOUTH ANDAMAN SEA AND NEIGHBOURHOOD LAY OVER NORTH ANDAMAN SEA AND NEIGHBOURHOOD AT 0300 UTC OF TODAY, THE 18TH OCTOBER 2022. UNDER ITS INFLUENCE, A LOW PRESSURE AREA IS LIKELY TO FORM OVER SOUTHEAST & ADJOINING EASTCENTRAL BAY OF BENGAL DURING NEXT 48 HOURS. IT IS LIKELY TO MOVE WEST-NORTHWESTWARDS AND CONCENTRATE INTO A DEPRESSION BY 22ND MORNING OVER CENTRAL BAY OF BENGAL. IT IS VERY LIKELY TO INTENSIFY FURTHER INTO A CYCLONIC STORM OVER WESTCENTRAL BAY OF BENGAL SUBSEQUENTLY.

INTENSE CONVECTION LAY OVER ANDAMAN SEA. IT HAS ENHANCED DURING LAST 24 HRS. MINIMUM CLOUD TOP TEMPERATURE IS MINUS 93 DEGREE CELSIUS. SCATTERED TO BROKEN LOW AND MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION LAY OVER CENTRAL & SOUTH BAY OF BENGAL AND ANDAMAN SEA. SCATTERED LOW AND MEDIUM CLOUDS WITH EMBEDDED MODERATE TO INTENSE CONVECTION LAY OVER NORTH BAY OF BENGAL.

PROBABILITY OF CYCLOGENESIS (FORMATION OF DEPRESSION) DURING NEXT 120 HRS:

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

ARABIAN SEA:

YESTERDAY'S CYCLONIC CIRCULATION OVER SOUTHWEST ARABIAN SEA & NEIGHBOURHOOD PERSISTED OVER THE SAME REGION AT 0300 UTC OF TODAY, THE 18TH OCTOBER, 2022.

YESTERDAY'S CYCLONIC CIRCULATION OVER SOUTHEAST ARABIAN SEA & ADJOINING KERALA COAST LAY OVER EASTCENTRAL ARABIAN SEA OFF MAHARASHTRA COAST AT 0300 UTC OF TODAY, THE 18TH OCTOBER, 2022.

SCATTERED TO BROKEN LOW AND MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION LAY OVER CENTRAL ARABIAN SEA & SOUTH ARABIAN SEA, LAKSHADWEEP ISLANDS AREA AND COMORIN AREA.

PROBABILITY OF CYCLOGENESIS (FORMATION OF DEPRESSION) DURING NEXT 120 HRS:

24 HOURS	24-48 HOURS	48-72 HOURS	72-96 HOURS	96-120 HOURS
NIL	NIL	NIL	NIL	NIL

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%
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Remarks:

THE MADDEN JULIAN OSCILLATION INDEX (MJO) CURRENTLY LIES IN PHASE 6 WITH AMPLITUDE GREATER THAN 1. IT WOULD CONTINUE IN SAME PHASE 6 DURING NEXT 4 DAYS WITH GRADUALLY INCREASING AMPLITUDE. HENCE MJO IS NOT SUPPORTIVE FOPR ENHANCEMENT OF CONVECTIVE AVTIVITY OVER BAY OF BENGAL.

SEA SURFACE TEMPERATURE (SST) IS AROUND 29-31^{0}C OVER ENTIRE BOB. THE OCEAN HEAT CONTENT (OHC) IS >100 KJ/CM^2 OVER ENTIRE ANDAMAN SEA, CENTRAL BOB, SOUTH BOB & ADJOINING EIO AND 50-70 KJ/CM^2 OVER WESTERN PARTS OF BOB.

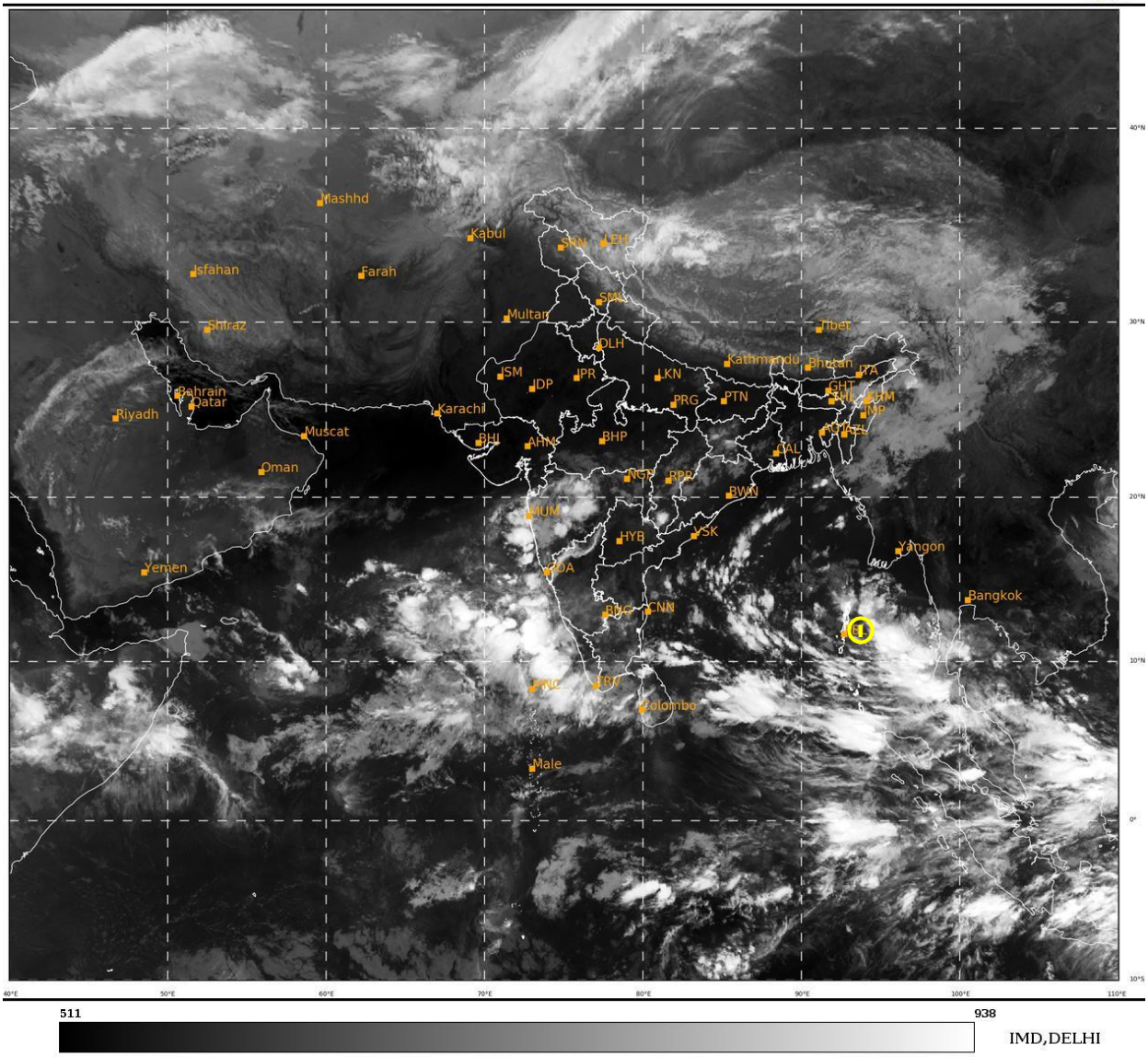
LOW LEVEL VORTICITY HAS INCREASED DURING PAST 24 HOURS AND IS AROUND 80 X10^{-6} S^{-1} OVER ANDAMAN SEA. VERTICALLY IT IS EXTENDING UPTO 500 HPA LEVEL. LOW LEVEL CONVERGENCE IS AROUND 20 X10^{-5} S^{-1} OVER ANDAMAN SEA. UPPER LEVEL DIVERGENCE IS AROUND 20 X10^{-5} S^{-1} OVER ANDAMAN SEA. WIND SHEAR IS MODERATE (15 KNOTS) OVER ANDAMAN SEA. CURRENTLY, THE CYCLONIC CIRCULATION OVER ANDAMAN SEA IS IN A FAVOURABLE ENVIRONMENT.

MOST OF THE MODELS ARE INDICATING DEVELOPMENT OF LOW PRESSURE AREA OVER SOUTHEAST & ADJOINING EASTCENTRAL BOB DURING NEXT 48 HOURS. MODELS ARE ALSO INDICATING FURTHER INTENSIFICATION OF THIS SYSTEM INTO A DEPRESSION BY 22ND/0000 UTC AND INTO A CYCLONIC STORM THEREAFTER. THERE IS LARGE VARIATION AMONG VARIOUS MODELS WRT TRACK & PEAK INTENSIFICATION OF THIS SYSTEM. THE LANDFALL POINT IS VARYING FROM NORTH ANDHRA PRADESH (GFS), TO NORTH ODISHA (ECMWF) TO BANGLADESH COAST (NCUM) AND PEAK INTENSIFICATION VARYING FROM CYCLONIC STORM (ECMWF) TO VERY SEVERE CYCLONIC STORM (GFS).

IN VIEW OF ALL THE ABOVE, THERE IS LIKELIHOOD OF, FORMATION OF A LOW PRESSURE AREA OVER SOUTHEAST & ADJOINING EASTCENTRAL BAY OF BENGAL DURING NEXT 48 HOURS. IT IS LIKELY TO MOVE WEST-NORTHWESTWARDS AND CONCENTRATE INTO A DEPRESSION BY 22ND MORNING OVER CENTRAL BAY OF BENGAL. IT IS VERY LIKELY TO INTENSIFY FURTHER INTO A CYCLONIC STORM OVER WESTCENTRAL BAY OF BENGAL SUBSEQUENTLY.

SAT : INSAT-3D IMG
IMG_TIR1 10.8 um
L1C Mercator

18-10-2022/(0300 to 0326) GMT
18-10-2022/(0830 to 0856) IST



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IMD,DELHI

I: INVEST AREA

AREA OF MAXIMUM SUSTAINED WIND ≥ 25 KNOTS

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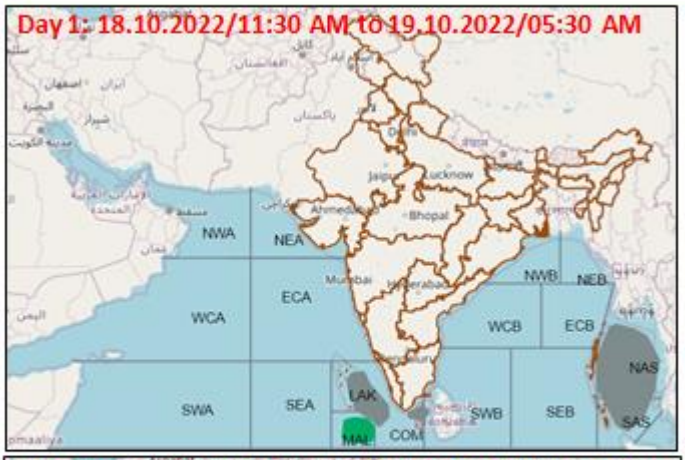
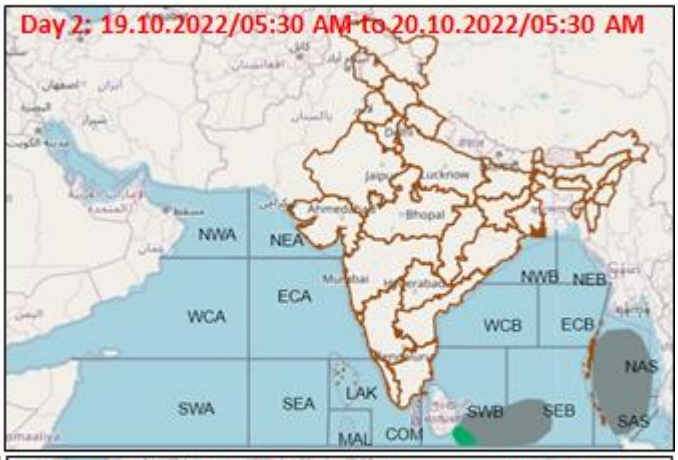
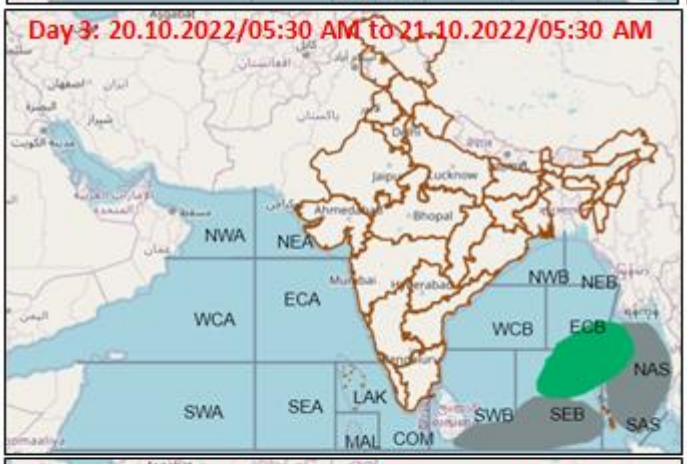
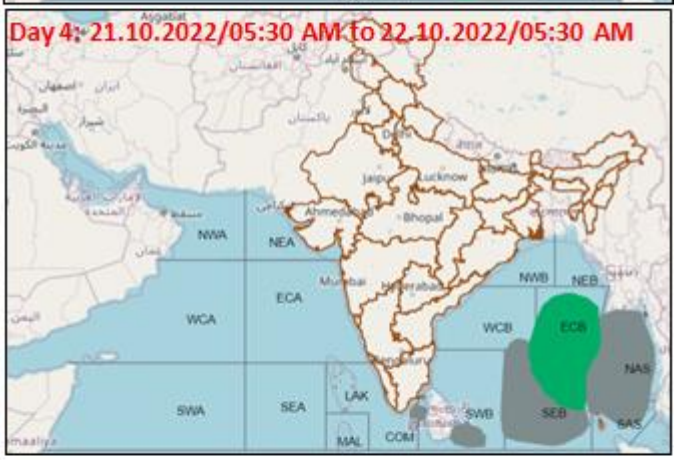
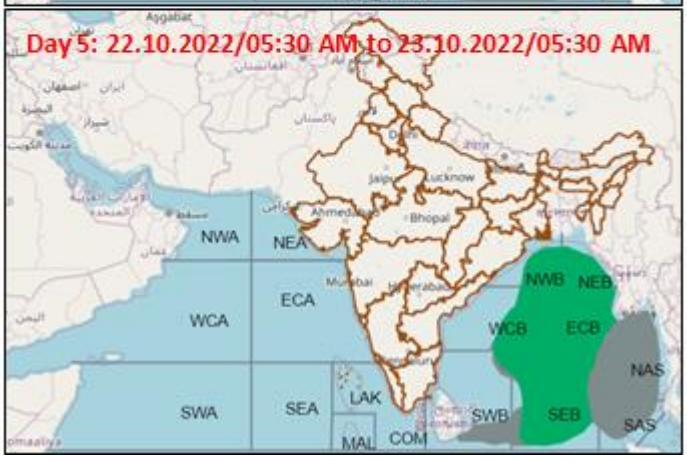
Fishermen warning graphics











Squally WX with wind speed 40-45 kmph gusting to 55 kmph

Squally wind speed 45-55 kmph gusting to 65 kmph

Fishermen are advised not to venture into the marked areas.

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