REGIONAL SPECIALISED METEOROLOGICAL CENTRE-TROPICAL CYCLONES, NEW DELHI
TROPICAL CYCLONE ADVISORY BULLETIN NO. 35

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. 35 FOR NORTH INDIAN OCEAN (THE BAY OF BENGAL AND ARABIAN SEA) VALID FOR NEXT 120 HOURS ISSUED AT 2030 UTC OF 03.11.2019 BASED ON 1800 UTC OF 03.11.2019.

SUB: VERY SEVERE CYCLONIC STORM ‘MAHA’ (PRONOUNCED AS M’MAHA) OVER EASTCENTRAL ARABIAN SEA: CYCLONE WATCH FOR GUJARAT COAST

THE VERY SEVERE CYCLONIC STORM MAHA (PRONOUNCED AS M’MAHA) OVER EASTCENTRAL ARABIAN SEA MOVED NORTH-NORTHWESTWARDS WITH A SPEED OF 06 KMPH DURING PAST 06 HOURS AND LAY CENTERED AT 1800 UTC OF TODAY, THE 03RD NOVEMBER, 2019 OVER EASTCENTRAL ARABIAN SEA NEAR LATITUDE 17.9°N AND LONGITUDE 65.4°E, ABOUT 610 KM WEST-SOUTHWEST OF VERAVAL (42909), 640 KM WEST-SOUTHWEST OF DIU(42914) AND 600 KM SOUTHWEST OF PORBANDAR(42830). IT IS VERY LIKELY TO INTENSIFY INTO AN EXTREMELY SEVERE CYCLONIC STORM DURING NEXT 06 HOURS. IT IS VERY LIKELY TO MOVE WEST-NORTHWESTWARDS SLOWLY DURING NEXT 24 HOURS, RE-CURVE EAST-NORtheASTWARDS AND MOVE RAPIDLY THEREAFTER. IT IS VERY LIKELY TO WEAKEN GRADUALLY FROM 05TH NOVEMBER ONWARDS. IT IS VERY LIKELY TO CROSS GUJARAT COAST BETWEEN DIU AND DWARKA AS A SEVERE CYCLONIC STORM WITH A MAXIMUM SUSTAINED WIND SPEED OF 100-110 KMPH GUSTING TO 120 KMPH BETWEEN 1800 UTC OF 6TH NOVEMBER AND 0000 UTC OF 7TH NOVEMBER, 2019.

FORECAST TRACK AND INTENSITY ARE GIVEN IN THE FOLLOWING TABLE:

<table>
<thead>
<tr>
<th>DATE/TIME(UTC)</th>
<th>POSITION (LAT. °N/ LONG. °E)</th>
<th>MAXIMUM SUSTAINED SURFACE WIND SPEED (KMPH)</th>
<th>CATEGORY OF CYCLONIC DISTURBANCE</th>
</tr>
</thead>
<tbody>
<tr>
<td>03.11.19/1800</td>
<td>17.9/65.4</td>
<td>140-150 GUSTING TO 165</td>
<td>VERY SEVERE CYCLONIC STORM</td>
</tr>
<tr>
<td>04.11.19/0000</td>
<td>18.0/64.6</td>
<td>160-170 GUSTING TO 190</td>
<td>EXTREMELY SEVERE CYCLONIC STORM</td>
</tr>
<tr>
<td>04.11.19/0600</td>
<td>18.3/64.0</td>
<td>170-180 GUSTING TO 200</td>
<td>EXTREMELY SEVERE CYCLONIC STORM</td>
</tr>
<tr>
<td>04.11.19/1200</td>
<td>18.6/63.6</td>
<td>180-190 GUSTING TO 210</td>
<td>EXTREMELY SEVERE CYCLONIC STORM</td>
</tr>
<tr>
<td>04.11.19/1800</td>
<td>18.9/63.6</td>
<td>170-180 GUSTING TO 200</td>
<td>EXTREMELY SEVERE CYCLONIC STORM</td>
</tr>
<tr>
<td>05.11.19/0600</td>
<td>19.4/64.1</td>
<td>155-165 GUSTING TO 180</td>
<td>VERY SEVERE CYCLONIC STORM</td>
</tr>
<tr>
<td>05.11.19/1800</td>
<td>20.0/65.5</td>
<td>140-150 GUSTING TO 165</td>
<td>VERY SEVERE CYCLONIC STORM</td>
</tr>
<tr>
<td>06.11.19/0600</td>
<td>20.5/67.5</td>
<td>125-135 GUSTING TO 145</td>
<td>VERY SEVERE CYCLONIC STORM</td>
</tr>
<tr>
<td>06.11.19/1800</td>
<td>21.0/69.7</td>
<td>100-110 GUSTING TO 120</td>
<td>SEVERE CYCLONIC STORM</td>
</tr>
<tr>
<td>07.11.19/0600</td>
<td>21.5/71.7</td>
<td>70-80 GUSTING TO 90</td>
<td>CYCLONIC STORM</td>
</tr>
<tr>
<td>07.11.19/1800</td>
<td>22.1/74.0</td>
<td>45-55 GUSTING TO 65</td>
<td>DEEP DEPRESSION</td>
</tr>
<tr>
<td>08.11.19/0600</td>
<td>22.7/76.5</td>
<td>30-40 GUSTING TO 50</td>
<td>DEPRESSION</td>
</tr>
</tbody>
</table>

PROBABILITY OF CYCLOGENESIS (FORMATION OF DEPRESSION)
NIL: 0%, LOW: 1-25%, FAIR: 26-50%, MODERATE: 51-75% AND HIGH: 76-100%
AS PER THE SATELLITE IMAGERY AT 1800 UTC OF 03RD NOVEMBER, 2019, THE CURRENT INTENSITY OF THE SYSTEM IS T 4.5/4.5. SYSTEM SHOWS EYE PATTERN. IT IS A RUGGED EYE WITH DIAMETER OF 20KM. EYE TEMPERATURE IS -30.4°C. ASSOCIATED BROKEN LOW TO MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION LIES OVER EASTCENTRAL BETWEEN LAT 15.8°N TO 20.0°N AND LONG 63.5°E TO 67.0°E. THE MINIMUM CTT IS MINUS 93°C.

THE ESTIMATED MAXIMUM SUSTAINED WIND SPEED IS 80 KNOTS GUSTING TO 90 KNOTS. THE ESTIMATED CENTRAL PRESSURE IS 974 HPA. THE SEA CONDITION IS PHENOMENAL AROUND THE SYSTEM CENTRE. AT 1800 UTC OF 03RD NOVEMBER, 2019, A BUOY (23456) LOCATED NEAR LAT. 18.5°N / 67.4°E REPORTED MEAN SEA LEVEL PRESSURE 1010.6 HPA, SST 26.3°C AND WIND 320°/18 KNOTS

REMARKS


PRESENTLY, AN ANTICYCLONE IS LOCATED TO THE NORTHEAST OF THE SYSTEM AND THE SYSTEM IS BEING STEERED BY THE SOUTHERN PERIPHERY WINDS. IT IS MOVING IN WEST-NORTHWEST DIRECTION. THIS MOVEMENT IS LIKELY TO CONTINUE DURING NEXT 24 HOURS. THEN IT IS LIKELY TO ENTER INTO COL REGION, MOVE NEARLY NORTHWARDS FOR A BRIEF PERIOD AND LIKELY TO COME UNDER THE INFLUENCE OF AN APPROACHING MID-LATITUDE WESTERLY TROUGH FROM 5TH NOVEMBER. AS A RESULT, THE SYSTEM IS VERY LIKELY TO RE-CURVE EAST-NORTHEASTWARDS FROM 5TH NOVEMBER. DURING THIS PERIOD, THE SYSTEM IS LIKELY TO WEAKEN GRADUALLY UNDER THE INFLUENCE OF INCREASED VERTICAL WIND SHEAR. MAJORITY OF THE NUMERICAL MODELS ARE IN AGREEMENT WITH THE ABOVE ANALYSIS.

(D R PATTANAIK)
SCIENTIST-E, RSMC, NEW DELHI
PROBABILITY OF CYCLOGENESIS (FORMATION OF DEPRESSION)
NIL: 0%, LOW: 1-25%, FAIR: 26-50%, MODERATE: 51-75% AND HIGH: 76-100%

Very Severe Cyclonic Storm MAHA (17.9°N/65.4°E)
PROBABILITY OF CYCLOGENESIS (FORMATION OF DEPRESSION)
NIL: 0%, LOW: 1-25%, FAIR: 26-50%, MODERATE: 51-75% AND HIGH: 76-100%