SUB: DEPRESSION OVER SOUTHWEST ARABIAN SEA

THE DEPRESSION OVER SOUTHWEST ARABIAN SEA MOVED WEST-NORTHWESTWARDS WITH A SPEED OF 11 KMPH DURING PAST 03 HOURS AND LAY CENTRED AT 1200 UTC OF TODAY, THE 08TH DECEMBER, 2019 NEAR LATITUDE 9.5°N AND LONGITUDE 61.6°E, ABOUT 910 KM EAST-SOUTHEAST OF SOCOTRA ISLAND (41494) AND 1600 KM WEST-SOUTHWEST OF COCHIN (43353). IT IS VERY LIKELY TO INTENSIFY INTO A DEEP DEPRESSION DURING NEXT 24 HOURS. IT IS VERY LIKELY TO MOVE WEST- NORTHWESTWARDS TILL 0000 UTC OF 09 DECEMBER AND THEN NEARLY WESTWARDS DURING SUBSEQUENT 48 HOURS.

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>08.12.19/1200</td>
<td>9.5/61.6</td>
<td>45-55 GUSTING TO 65</td>
<td>DEPRESSION</td>
</tr>
<tr>
<td>09.12.19/0000</td>
<td>10.3/60.0</td>
<td>55-65 GUSTING TO 75</td>
<td>DEEP DEPRESSION</td>
</tr>
<tr>
<td>09.12.19/1730</td>
<td>10.9/58.4</td>
<td>55-65 GUSTING TO 75</td>
<td>DEEP DEPRESSION</td>
</tr>
<tr>
<td>10.12.19/0530</td>
<td>11.1/56.8</td>
<td>45-55 GUSTING TO 65</td>
<td>DEPRESSION</td>
</tr>
</tbody>
</table>

REMARKS:

(I) AS PER THE SATELLITE IMAGERY OF 1200 UTC ON 08TH DECEMBERER, 2019, THE CURRENT INTENSITY OF THE SYSTEM IS T1.5. ASSOCIATED BROKEN LOW TO MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION LIES OVER SOUTHWEST ARABIAN SEA AND ADJOINING SOUTHEAST ARABIAN SEA BETWEEN LAT 9.0°N TO 15.0°N LONG 60.0°E TO 67.0°E. MINIMUM CLOUD TOP TEMPERATURE IS MINUS 92 DEG C.

THE ESTIMATED MAXIMUM SUSTAINED WIND SPEED IS 25 KNOTS GUSTING TO 35 KNOTS. THE ESTIMATED CENTRAL PRESSURE IS 1002 HPA. THE SEA CONDITION IS ROUGH TO VERY ROUGH AROUND THE SYSTEM CENTRE.


SEA SURFACE TEMPERATURE OVER THE SYTEM AREA IS 29-30°C AND IT DECREASES SLIGHTLY ALONG THE FORECAST TRACK. TROPICAL CYCLONE HEAT POTENTIAL IS 40-60 KJ/CM2 AROUND THE SYSTEM AREA AND BECOMIMG 40-50 KJ/CM2 ALONG THE FORECAST TRACK. AS THE SYSTEM IS LYING IN A MARGINALLLY FAVOURABLE CONDITIONS, IT IS LIKELY TO FURTHER INTENSIFY INTO A DEEP DEPRESSION BY 0000 UTC OF 09TH DECEMBER.

PROBABILITY OF CYCLOGENESIS (FORMATION OF DEPRESSION)

NIL: 0%, LOW: 1-25%, FAIR: 26-50%, MODERATE: 51-75% AND HIGH: 76-100%
AS THE SYSTEM LIES TO THE SOUTH OF UPPER TROPOSPHERIC RIDGE AND IS BEING STEERED BY MIDDLE AND UPPER TROPOSPHERIC WINDS, IT IS VERY LIKELY TO MOVE WEST-NORTHWESTWARDS TILL 0000 UTC OF 9TH DECEMBER AND THEN WESTWARDS DURING SUBSEQUENT 48 HOURS. MAJORITY OF NUMERICAL MODELS INCLUDING ECMWF, NCMRWF UNIFIED MODELS (NCUM), NCMRWF ENSEMBLE PREDICTION SYSTEM (NEPS), IMD GLOBAL FORECAST SYSTEM (GFS), GLOBAL ENSEMBLE FORECASTING SYSTEM (GEFS), NCEP GFS AGREE WITH THE ABOVE ANALYSIS.

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PROBABILITY OF CYCLOGENESIS (FORMATION OF DEPRESSION)
NIL: 0%, LOW: 1-25%, FAIR: 26-50%, MODERATE: 51-75% AND HIGH: 76-100%

DEPRESSION 9.5° N / 61.6° E
PROBABILITY OF CYCLOGENESIS (FORMATION OF DEPRESSION)
NIL: 0%, LOW: 1-25%, FAIR: 26-50%, MODERATE: 51-75% AND HIGH: 76-100%