

WTIO30 FMEE 181258

RSMC / TROPICAL CYCLONE CENTER / LA REUNION

TROPICAL CYCLONE FORECAST WARNING (SOUTH-WEST INDIAN OCEAN)

0.A WARNING NUMBER: 1/6/20182019

1.A PERTURBATION TROPICALE 6

2.A POSITION 2019/01/18 AT 1200 UTC:

WITHIN 21 NM RADIUS OF POINT 22.3 S / 36.0 E

(TWENTY TWO DECIMAL THREE DEGREES SOUTH AND
THIRTY SIX DECIMAL ZERO DEGREES EAST)

MOVEMENT: EAST-NORTH-EAST 5 KT

3.A DVORAK ANALYSIS: NIL

4.A CENTRAL PRESSURE: 1002 HPA

5.A MAX AVERAGE WIND SPEED (10 MN): 25 KT

RADIUS OF MAXIMUM WINDS (RMW): 90 KM

6.A EXTENSION OF WIND BY QUADRANTS (KM):

NIL

7.A FIRST CLOSED ISOBAR (PRESSURE / AVERAGE DIAM): 1006 HPA / 500 KM

8.A VERTICAL EXTENSION OF CYCLONE CIRCULATION: MEDIUM

1.B FORECASTS:

12H: 2019/01/19 00 UTC: 22.3 S / 36.4 E, VENT MAX= 030 KT, TROPICAL DEPRESSION

24H: 2019/01/19 12 UTC: 22.3 S / 36.1 E, VENT MAX= 030 KT, TROPICAL DEPRESSION

36H: 2019/01/20 00 UTC: 22.0 S / 36.3 E, VENT MAX= 035 KT, MODERATE TROPICAL
STORM

48H: 2019/01/20 12 UTC: 20.5 S / 35.9 E, VENT MAX= 040 KT, MODERATE TROPICAL
STORM

60H: 2019/01/21 00 UTC: 18.4 S / 35.0 E, VENT MAX= 030 KT, OVERLAND DEPRESSION

72H: 2019/01/21 12 UTC: 17.3 S / 34.3 E, VENT MAX= 020 KT, OVERLAND DEPRESSION

2.B LONGER-RANGE OUTLOOK:

NIL

2.C ADDITIONAL INFORMATION:

ASSOCIATED WITH STRONG BUT FLUCTUATING CONVECTIVE ACTIVITY OVER THE SEA, THE CLOCKWISE LOW-LEVEL CIRCULATION, INITIALLY FOLLOWED FOR SOME DAYS ON THE LANDS OF MOZAMBIQUE, MOVED OVER THE SEA, ACCORDING TO THE 0425UTC MICROWAVE IMAGES. THIS SYSTEM IS NOW FOLLOWED AS A TROPICAL DISTURBANCE 06S, WITHOUT A DVORAK ESTIMATE MAY BE MADE FOR THE MOMENT. SATELLITE WIND ESTIMATES PROVIDE MAXIMUM WINDS OF 25KT. WITH A CENTER ESTIMATED NEARLY 40KM FROM THE COASTS, THE STRONGEST CONVECTIVE ACTIVITY IS LOCATED IN THE EASTERN SECTOR, ENOUGH ALONG THE

CENTER.

UNDER THE EFFECT OF THE UPPER-LEVEL DYNAMIC CIRCULATING SOUTH OF AFRICA, THE TROPICAL DISTURBANCE 06S IS FIRST IN A LOW DIRECT FLOW AREA. THE DISPLACEMENT IS THEN LOW THROUGH SATURDAY AND AFTER BEING PUSHED BY THE MIDDLE LEVEL TROPOSPHERE RIDGE WHICH ORIENTATE A TRACK TO THE NORTH DURING SUNDAY. THIS SIGNIFICANT ACCELERATION CONDUCTS THE SYSTEM TO BE TAKEN ON THE MOZAMBICAN COASTS DURING THE SUNDAY EVENING.

SITUATED FOR THE MOMENT IN A WEAKLY WINDSHEAR ENVIRONMENT, THE DISTURBANCE WILL STAY IN FAVORABLE CONDITIONS TO ITS PROGRESSIVE INTENSIFICATION. WITH THE INCREASE IN THE FLOW ON THE POLAR SIDE, THE MAINTENANCE OF A MONSOON FLOW ALONG THE CANAL AND A STRONG OCEANIC POTENTIAL WHICH COMPENSTES FOR THE LACK OF MOVEMENT AT THE FIRST TIME, THE DISTURBANCE SHOULD SEE ITS INTENSITY INCREASE PROGRESSIVELY DURING THE NEXT 48H BEFORE ITS LANDING ON MOZAMBICAN LANDS AT MODERATE TROPICAL STORM STAGE.