

WTIO30 FMEE 111219

RSMC / TROPICAL CYCLONE CENTER / LA REUNION
TROPICAL CYCLONE FORECAST WARNING (SOUTH-WEST INDIAN OCEAN)

0.A WARNING NUMBER: 4/3/20182019

1.A MODERATE TROPICAL STORM 3 (BOUCHRA)

2.A POSITION 2018/11/11 AT 1200 UTC:

WITHIN 15 NM RADIUS OF POINT 5.3 S / 88.5 E

(FIVE DECIMAL THREE DEGREES SOUTH AND EIGHTY EIGHT DECIMAL FIVE
DEGREES EAST)

MOVEMENT : QUASI-STATIONARY

3.A DVORAK ANALYSIS: 2.5/3.0/S 0.0/12 H

4.A CENTRAL PRESSURE: 998 HPA

5.A MAX AVERAGE WIND SPEED (10 MN): 40 KT

RADIUS OF MAXIMUM WINDS (RMW) :19 KM

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

28 KT NE: 90 SE: 140 SW: 140 NW: 120

34 KT NE: 60 SE: 60 SW: 60 NW: 60

7.A FIRST CLOSED ISOBAR (PRESSURE / AVERAGE DIAM): 1009 HPA / 500 KM

8.A VERTICAL EXTENSION OF CYCLONE CIRCULATION : MEDIUM

1.B FORECASTS:

12H: 2018/11/12 00 UTC: 5.5 S / 89.1 E, MAX WIND=035 KT, MODERATE TROPICAL
STORM

24H: 2018/11/12 12 UTC: 5.9 S / 89.8 E, MAX WIND=035 KT, MODERATE TROPICAL
STORM

36H: 2018/11/13 00 UTC: 6.4 S / 90.3 E, MAX WIND=035 KT, MODERATE TROPICAL
STORM

48H: 2018/11/13 12 UTC: 6.7 S / 91.0 E, MAX WIND=030 KT, TROPICAL DEPRESSION

60H: 2018/11/14 00 UTC: 7.0 S / 91.9 E, MAX WIND=030 KT, TROPICAL DEPRESSION

72H: 2018/11/14 12 UTC: 7.3 S / 93.4 E, MAX WIND=030 KT, TROPICAL DEPRESSION

2.B LONGER-RANGE OUTLOOK :

96H: 2018/11/15 12 UTC: 9.0 S / 94.9 E, MAX WIND=025 KT, TROPICAL DISTURBANCE

120H: 2018/11/16 12 UTC: 10.7 S / 94.0 E, MAX WIND=030 KT, TROPICAL DEPRESSION

2.C ADDITIONAL INFORMATION:

T=2.5+;CI=3.0

ACCORDING TO CIMSS ANALYSIS DATA, THE EASTERLY UPPER CONSTRAINT IS CLEARLY INCREASING OVER THE LAST 24 HOURS (+10/20KT). OVER THE LAST 12 HOURS, THE INFLUENCE OF THIS VWS BECAME CLEARER AND CLEARER. ON THE 10Z GEOSTATIONARY SAT IMAGES, THE CIRCULATION CENTER WAS ALMOST EXPOSED, LOCATED UNDER A CONVECTIVE BURST NEAR THE NORTH-EASTERN BORDER OF THE CLOUD MASS.

TODAY, THE SYSTEM STAYED ALMOST STATIONARY, BLOCKED WITHIN THE NEAR EQUATORIAL TROUGH AXIS BETWEEN TWO CONTRADICTORY STEERING FLOWS GENERATED BY THE SUBTROPICAL RIDGE (EASTERLY FLOW) AND THE DEEP EQUATORIAL WESTERLIES, PROBABLY STRENGTHENED BY AN EQUATORIAL ROSSBY WAVE. FROM TOMORROW, THE LATTER SHOULD BECOME DOMINANT AND STEER THE SYSTEM SOUTH-EASTWARDS. FROM THURSDAY, BOUCHRA IS EXPECTED TO TURN SOUTHWARD AND THEN SOUTHWESTWARD AT LATE TAUS, AS IT BUMPS INTO THE NORTH-WESTERN SIDE OF A HIGH GEOPOTENTIAL AREA. THE 00Z ECMWF ENSEMBLE FORECAST CONFIRMS THIS SCENARIO, ALTHOUGH WITH A HIGH DISPERSION.

MONDAY, AS BOUCHRA BEGINS TO TRACK EASTWARDS, THE RELATIVE WINDSHEAR WILL SIGNIFICANTLY INCREASE AND CONTINUE TO WEAKEN THE SYSTEM. FROM WEDNESDAY, THE VWS DECREASES BUT THE ENVIRONMENTAL CONDITIONS REMAIN RATHER UNCONDUCTIVE, WITH A WEAK TO MODERATE VWS AND AN INTERMITTENT DIVERGENCE ALOFT. BOUCHRA'S SMALL SIZE MAKES IT MORE SENSIBLE TO THE IMPROVEMENTS OF ITS ENVIRONMENTAL CONDITIONS, AND THIS COULD CAUSE SOME FLUCTUATIONS OF THE INTENSITY AROUND A SLOW WEAKENING TREND, AS SUGGESTED BY THE OFFICIAL FORECAST AND THE MAIN AVAILABLE GUIDANCES.

NEXT WEEK-END, WITHIN MORE CONDUCTIVE CONDITIONS BUT OVER COOLER UNDERLYING WATERS, A LOW RISK OF REINTENSIFICATION EXISTS.