

WTIO30 FMEE 180715

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

0.A WARNING NUMBER: 11/3/20182019

1.A MODERATE TROPICAL STORM 3 (BOUCHRA)

2.A POSITION 2018/11/18 AT 0600 UTC:

WITHIN 20 NM RADIUS OF POINT 12.4 S / 84.5 E

(TWELVE DECIMAL FOUR DEGREES SOUTH AND EIGHTY FOUR DECIMAL FIVE DEGREES EAST)

MOVEMENT : WEST-SOUTH-WEST 7 KT

3.A DVORAK ANALYSIS: 3.0/3.0/D 1.5/24 H

4.A CENTRAL PRESSURE: 997 HPA

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

RADIUS OF MAXIMUM WINDS (RMW) :NIL

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

28 KT NE: 190 SE: 220 SW: 330 NW: 0

34 KT NE: 140 SE: 150 SW: 0 NW: 0

7.A FIRST CLOSED ISOBAR (PRESSURE / AVERAGE DIAM): 1009 HPA / 600 KM

8.A VERTICAL EXTENSION OF CYCLONE CIRCULATION : DEEP

1.B FORECASTS:

12H: 2018/11/18 18 UTC: 13.3 S / 82.9 E, MAX WIND=050 KT, SEVERE TROPICAL STORM

24H: 2018/11/19 06 UTC: 14.4 S / 81.0 E, MAX WIND=055 KT, SEVERE TROPICAL STORM

36H: 2018/11/19 18 UTC: 15.3 S / 79.3 E, MAX WIND=045 KT, MODERATE TROPICAL STORM

48H: 2018/11/20 06 UTC: 15.9 S / 77.7 E, MAX WIND=035 KT, MODERATE TROPICAL STORM

60H: 2018/11/20 18 UTC: 16.2 S / 76.3 E, MAX WIND=030 KT, FILLING UP

72H: 2018/11/21 06 UTC: 16.4 S / 74.9 E, MAX WIND=025 KT, FILLING UP

2.B LONGER-RANGE OUTLOOK :

96H: 2018/11/22 06 UTC: 16.8 S / 72.5 E, MAX WIND=025 KT, FILLING UP

120H: 2018/11/23 06 UTC: 16.5 S / 69.5 E, MAX WIND=020 KT, FILLING UP

2.C ADDITIONAL INFORMATION:

T=CI=3.0+

OVER THE LAST 48 HOURS, EX-BOUCHRA HAS GRADUALLY INTENSIFIED WITH THE

SLOW DECREASE OF THE VWS. LAST NIGHT, THE FLARE UP OF THE THUNDERSTORM ACTIVITY HAS ORGANIZED SIGNIFICANTLY COMPARED TO THE PREVIOUS DAY. THE SYSTEM SHOW NOW A CURVED BAND PATTERN THAT WRAPS 0.7/0.8 ON A LOG10 SPIRAL. AVAILABLE DVORAK ESTIMATES RANGE FROM 40 TO 50 KT 10-MIN WINDS (CI FROM 3.0 TO 3.5). THE FINAL INTENSITY IS SET AT 40 KT AND THIS MAY BE CONSERVATIVE. HR VIS IMAGERY DEPICT SOME DRY AIR THAT SEEMS TO WRAP WITHIN THE CIRCULATION WITHIN THE SOUTHERN AND WESTERN SECTORS.

THE SYSTEM IS TRACKING WEST-SOUTH-WESTWARDS ON THE NORTH-WESTERN EDGE OF THE SUBTROPICAL RIDGE. A MORE SOUTH-WESTWARDS TRACK IS ANTICIPATED FOR THE NEXT 24/36H TOWARDS A MID-LEVEL WEAKNESS IN THE STR DUE TO A DEEP UPPER TO MID LEVELS TROUGH CURRENTLY LOCATED WEST OF 65°E. AFTER TAU 36H, A WEAKER SYSTEM IS EXPECTED TO GRADUALLY TRACK MORE WESTWARDS WITHIN A LOWER STEERING LEVEL.

UP TO TOMORROW, SOME ADDITIONAL STRENGTHENING IS EXPECTED WITHIN A LOW SHEAR ENVIRONMENT AND VERY GOOD UPPER LEVEL DIVERGENCE POLEWARDS. HOWEVER, THE ABUNDANCE OF MID-LEVELS DRY AIR INDUCE SOME UNCERTAINTY ON THE MAXIMUM INTENSITY. THE CURRENT INTENSITY IS ABOVE THE ICNW INTENSITY CONSENSUS. LATE MONDAY OR MONDAY NIGHT, THE DEEP LAYER SHEAR IS EXPECTED TO INCREASE (FROM THE NORTH AND THEN FROM THE NORTH-WEST) AND IS EXPECTED TO SIGNIFICANTLY WEAKEN DEFINITELY THE SYSTEM.