

WTIO30 FMEE 130036

RSMC / TROPICAL CYCLONE CENTER / LA REUNION

TROPICAL CYCLONE FORECAST WARNING (SOUTH-WEST INDIAN OCEAN)

0.A WARNING NUMBER: 3/1/20202021

1.A TROPICAL DEPRESSION 1

2.A POSITION 2020/11/13 AT 0000 UTC:

WITHIN 20 NM RADIUS OF POINT 5.2 S / 85.0 E

(FIVE DECIMAL TWO DEGREES SOUTH AND  
EIGHTY FIVE DECIMAL ZERO DEGREES EAST)

MOVEMENT: WEST 10 KT

3.A DVORAK ANALYSIS: 2.5/2.5/D 1.0/12 H

4.A CENTRAL PRESSURE: 999 HPA

5.A MAX AVERAGE WIND SPEED (10 MN): 30 KT

RADIUS OF MAXIMUM WINDS (RMW): 93 KM

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

28 KT NE: 100 SE: 100 SW: 100 NW: 100

7.A FIRST CLOSED ISOBAR (PRESSURE / AVERAGE DIAM): 1008 HPA / 700 KM

8.A VERTICAL EXTENSION OF CYCLONE CIRCULATION: DEEP

1.B FORECASTS:

12H: 2020/11/13 12 UTC: 5.8 S / 83.0 E, VENT MAX= 035 KT, MODERATE TROPICAL  
STORM

28 KT NE: 110 SE: 250 SW: 230 NW: 110

34 KT NE: 40 SE: 100 SW: 110 NW: 90

48 KT NE: 0 SE: 0 SW: 0 NW: 0

64 KT NE: 0 SE: 0 SW: 0 NW: 0

24H: 2020/11/14 00 UTC: 7.4 S / 80.7 E, VENT MAX= 045 KT, MODERATE TROPICAL  
STORM

28 KT NE: 120 SE: 260 SW: 230 NW: 110

34 KT NE: 40 SE: 110 SW: 120 NW: 90

48 KT NE: 0 SE: 0 SW: 0 NW: 0

64 KT NE: 0 SE: 0 SW: 0 NW: 0

36H: 2020/11/14 12 UTC: 9.4 S / 78.3 E, VENT MAX= 060 KT, SEVERE TROPICAL STORM

28 KT NE: 130 SE: 260 SW: 230 NW: 110

34 KT NE: 60 SE: 110 SW: 120 NW: 90

48 KT NE: 50 SE: 60 SW: 50 NW: 40

64 KT NE: 0 SE: 0 SW: 0 NW: 0

48H: 2020/11/15 00 UTC: 11.4 S / 76.0 E, VENT MAX= 075 KT, TROPICAL CYCLONE  
28 KT NE: 140 SE: 270 SW: 230 NW: 110  
34 KT NE: 60 SE: 120 SW: 130 NW: 90  
48 KT NE: 50 SE: 60 SW: 50 NW: 60  
64 KT NE: 30 SE: 30 SW: 30 NW: 60

60H: 2020/11/15 12 UTC: 13.7 S / 74.3 E, VENT MAX= 060 KT, SEVERE TROPICAL STORM  
28 KT NE: 150 SE: 280 SW: 230 NW: 110  
34 KT NE: 60 SE: 130 SW: 130 NW: 90  
48 KT NE: 50 SE: 60 SW: 60 NW: 40  
64 KT NE: 0 SE: 0 SW: 0 NW: 0

72H: 2020/11/16 00 UTC: 15.8 S / 73.6 E, VENT MAX= 050 KT, SEVERE TROPICAL STORM  
28 KT NE: 170 SE: 290 SW: 230 NW: 110  
34 KT NE: 60 SE: 140 SW: 140 NW: 100  
48 KT NE: 60 SE: 60 SW: 60 NW: 40  
64 KT NE: 0 SE: 0 SW: 0 NW: 0

#### 2.B LONGER-RANGE OUTLOOK:

96H: 2020/11/17 00 UTC: 18.4 S / 73.1 E, VENT MAX= 035 KT, MODERATE TROPICAL STORM  
28 KT NE: 190 SE: 300 SW: 230 NW: 110  
34 KT NE: 80 SE: 150 SW: 150 NW: 100  
48 KT NE: 0 SE: 0 SW: 0 NW: 0  
64 KT NE: 0 SE: 0 SW: 0 NW: 0

120H: 2020/11/18 00 UTC: 20.4 S / 71.7 E, VENT MAX= 030 KT, FILLING UP  
28 KT NE: 200 SE: 310 SW: 230 NW: 110  
34 KT NE: 0 SE: 0 SW: 0 NW: 0  
48 KT NE: 0 SE: 0 SW: 0 NW: 0  
64 KT NE: 0 SE: 0 SW: 0 NW: 0

#### 2.C ADDITIONAL INFORMATION:

T=CI=2.5

THE CONVECTIVE ACTIVITY CONTINUES TO STRENGTHEN AROUND TROPICAL DEPRESSION 01-20202021 SINCE THE LAST 6 HOURS DEFINING A CURVED BAND PATTERN. HOWEVER, THE LAST AMRS2 DATA FROM 1944UTC SHOW THAT THE CIRCULATION IS STILL WIDE. BY DVORAK ANALYSIS OF 2.5, THE MAXIMUM WINDS ARE THEN ESTIMATED AT 30KT QUITE FAR FROM THE CENTER AND MAINLY IN THE SOUTHERN SEMICIRCLE.

NO CHANGE IN TERMS OF FORECAST. THE TROPICAL DEPRESSION 01-20202021 CONTINUES TO MOVE WESTWARD, GUIDED BY THE FLOW GENERATED BY THE SUBTROPICAL RIDGE. THE SYSTEM SHOULD ACCELERATE ITS SOUTHWESTWARD MOVEMENT OVER THE NEXT 18 HOURS. UNDER THE IMPULSE OF THE DYNAMICS FURTHER SOUTH, THE RIDGE IS GRADUALLY SHIFTING EASTWARD AND WILL ALLOW A NORTHERLY DIRECTIONAL FLOW FROM SUNDAY ONWARDS. THE NUMERICAL MODELS ARE IN GOOD AGREEMENT ON THIS GLOBAL TRACK. FURTHER, THE UNCERTAINTY BECOMES MORE IMPORTANT IN RELATION WITH THE WEAK STEERING FLOW, LETTING THE SYSTEM MOVE MORE SLOWLY.

ON THIS TRACK, THE ENVIRONMENTAL CONDITIONS ARE VERY FAVOURABLE OVER THE NEXT 2 DAYS. THE CIRCULATION NEAR THE CENTER IS NOT YET SOLIDLY ESTABLISHED AND THEREFORE THE INTENSIFICATION IS NOT REALLY FRANK BEFORE THE NEXT 12 HOURS. ONCE THIS CIRCULATION IS MORE CONCENTRATED AND THANKS TO A VERY GOOD DIVERGENCE, LITTLE SHEAR AND A VERY STRONG OCEANIC POTENTIAL, THE INTENSIFICATION OF THE SYSTEM WILL BE MORE NOTICEABLE FROM SATURDAY. AT THE END OF THE WEEKEND, HOWEVER, CONDITIONS SHOULD DETERIORATE WITH A SIGNIFICANT DROP IN OCEAN POTENTIAL SOUTH OF 15S AND A SIGNIFICANT INCREASE OF THE WEST-NORTHWESTERLY SHEAR, LEADING TO AN IMPORTANT WEAKENING PHASE OF THE INTENSITY OF THE SYSTEM WHICH WILL HAVE REACHED THE THRESHOLD OF A TROPICAL CYCLONE.