

WTIO30 FMEE 121250

RSMC / TROPICAL CYCLONE CENTER / LA REUNION

TROPICAL CYCLONE FORECAST WARNING (SOUTH-WEST INDIAN OCEAN)

0.A WARNING NUMBER: 1/1/20202021

1.A TROPICAL DISTURBANCE 1

2.A POSITION 2020/11/12 AT 1200 UTC:

WITHIN 30 NM RADIUS OF POINT 4.6 S / 87.8 E

(FOUR DECIMAL SIX DEGREES SOUTH AND
EIGHTY SEVEN DECIMAL EIGHT DEGREES EAST)

MOVEMENT: WEST 2 KT

3.A DVORAK ANALYSIS: 1.5/1.5/D 1.0/24 H

4.A CENTRAL PRESSURE: 1002 HPA

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

RADIUS OF MAXIMUM WINDS (RMW): 74 KM

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

NIL

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 00 UTC: 5.1 S / 85.6 E, VENT MAX= 035 KT, MODERATE TROPICAL
STORM

24H: 2020/11/13 12 UTC: 5.7 S / 82.9 E, VENT MAX= 040 KT, MODERATE TROPICAL
STORM

36H: 2020/11/14 00 UTC: 6.8 S / 80.5 E, VENT MAX= 050 KT, SEVERE TROPICAL STORM

48H: 2020/11/14 12 UTC: 8.8 S / 78.4 E, VENT MAX= 060 KT, SEVERE TROPICAL STORM

60H: 2020/11/15 00 UTC: 11.2 S / 76.2 E, VENT MAX= 065 KT, TROPICAL CYCLONE

72H: 2020/11/15 12 UTC: 14.1 S / 74.6 E, VENT MAX= 070 KT, TROPICAL CYCLONE

2.B LONGER-RANGE OUTLOOK:

96H: 2020/11/16 12 UTC: 17.5 S / 73.5 E, VENT MAX= 040 KT, MODERATE TROPICAL
STORM

120H: 2020/11/17 12 UTC: 19.6 S / 73.7 E, VENT MAX= 030 KT, TROPICAL DEPRESSION

2.C ADDITIONAL INFORMATION:

T=CI=1.5+

IN THE LAST 24 HOURS, CONVECTIVE ACTIVITY HAS INCREASED SIGNIFICANTLY
AROUND 01-20202021, WITH COLD CLOUD TOPS AND SIGNS OF CURVATURE. THE
LATEST MICROWAVE IMAGES SUCH AS THE SSMIS 1018Z AND SATELLITE IMAGES

SHOW AN IMPROVEMENT OF THE INNER CORE. 0200Z SCATSAT SWATH AND THIS MORNING ASCAT SWATH SHOW THAT THE LOWER LEVEL CIRCULATION WAS QUITE WIDE WITH A LARGE AREA OF LIGHT WINDS, BUT WITH STRONGER WINDS IN THE SOUTHERN SEMICIRCLE FAR FROM THE CENTRE. THE INTENSITY IS THEREFORE SET TO 25KT WHICH IS PERHAPS A LITTLE CONSERVATIVE.

THE DISTURBANCE IS CURRENTLY MOVING SLOWLY TO THE WEST. IT SHOULD ACCELERATE WEST AND THEN SOUTHWEST ON THE NORTHWESTERN SIDE OF THE SUBTROPICAL RIDGE. AT LONGER RANGE, NORTH OF A TROUGH, THE STEERING FLOW SHOULD WEAKEN AS BENDING SOUTHWARD. THE NUMERICAL MODELS ARE IN VERY GOOD AGREEMENT UNTIL SUNDAY ON THE TRACK. FURTHER, THE UNCERTAINTY BECOMES MORE IMPORTANT IN RELATION WITH THE WEAK STEERING FLOW AND THE RATE OF WEAKENING OF THE SYSTEM.

ON THIS TRACK, ENVIRONMENTAL CONDITIONS ARE VERY FAVOURABLE FOR DEVELOPMENT UNTIL SUNDAY WITH A VERY GOOD DIVERGENCE, LITTLE SHEAR AND A VERY STRONG OCEANIC POTENTIAL. 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. CONSEQUENTLY, THE INTENSITY FORECAST FOR THE BEGINNING OF NEXT WEEK REMAINS RATHER UNCERTAIN.