

WTIO30 FMEE 080657

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

0.A WARNING NUMBER: 9/2/20182019

1.A INTENSE TROPICAL CYCLONE 2 (ALCIDE)

2.A POSITION 2018/11/08 AT 0600 UTC:

WITHIN 21 NM RADIUS OF POINT 11.5 S / 54.1 E

(ELEVEN DECIMAL FIVE DEGREES SOUTH AND FIFTY FOUR DECIMAL ONE DEGREES EAST)

MOVEMENT : WEST-SOUTH-WEST 7 KT

3.A DVORAK ANALYSIS: 5.5/5.5/D 0.5/6 H

4.A CENTRAL PRESSURE: 965 HPA

5.A MAX AVERAGE WIND SPEED (10 MN): 90 KT

RADIUS OF MAXIMUM WINDS (RMW) :19 KM

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

28 KT NE: 100 SE: 160 SW: 160 NW: 130

34 KT NE: 70 SE: 90 SW: 110 NW: 90

48 KT NE: 60 SE: 60 SW: 20 NW: 20

64 KT NE: 30 SE: 30 SW: 0 NW: 0

7.A FIRST CLOSED ISOBAR (PRESSURE / AVERAGE DIAM): 1011 HPA / 200 KM

8.A VERTICAL EXTENSION OF CYCLONE CIRCULATION : DEEP

1.B FORECASTS:

12H: 2018/11/08 18 UTC: 11.9 S / 53.5 E, MAX WIND=085 KT, TROPICAL CYCLONE

24H: 2018/11/09 06 UTC: 12.5 S / 53.2 E, MAX WIND=080 KT, TROPICAL CYCLONE

36H: 2018/11/09 18 UTC: 12.9 S / 53.4 E, MAX WIND=075 KT, TROPICAL CYCLONE

48H: 2018/11/10 06 UTC: 12.9 S / 53.8 E, MAX WIND=070 KT, TROPICAL CYCLONE

60H: 2018/11/10 18 UTC: 12.6 S / 54.1 E, MAX WIND=060 KT, SEVERE TROPICAL STORM

72H: 2018/11/11 06 UTC: 12.2 S / 54.0 E, MAX WIND=050 KT, SEVERE TROPICAL STORM

2.B LONGER-RANGE OUTLOOK :

96H: 2018/11/12 06 UTC: 11.7 S / 53.1 E, MAX WIND=035 KT, MODERATE TROPICAL STORM

120H: 2018/11/13 06 UTC: 11.2 S / 51.9 E, MAX WIND=030 KT, TROPICAL DEPRESSION

2.C ADDITIONAL INFORMATION:

T=CI=5.5

DURING THE LAST 6 HOURS, THE EYE PATTERN SHOWS A SLIGHT WEAKNESS IN THE EAST SECTOR CONFIRMED BY THE 0318UTC 91GHZ MW IMAGE. THE DVORAK

ANALYSIS ALLOWS TO PASS ALCIDE LIKE AN INTENSE TROPICAL CYCLONE. THE EXTENSIONS OF STRONG WIND REMAIN VERY LIMITED, CHARACTERIZING A SMALL SIZE TROPICAL SYSTEM, HAVING DIFFICULTY TO GENERATE A REMARKABLE SWELL. DUE TO THE SMALL SIZE OF THE SYSTEM, THE 0513UTC ASCAT SWATH HAD DIFFICULTY DEFINING WINDS ABOVE 60KTS.

ALCIDE CONTINUES ITS MOVEMENT WESTSOUTHWESTWARD STEERED BY A WEAK MID-LEVEL RIDGE LOCATED IN THE SOUTH. AN EASTWARD SHIFT OF THIS RIDGE SHOULD DRIVE A GRADUAL SOUTHWESTWARD TURN BEFORE A SIGNIFICANT SLOWING IN AN AREA WITH NO SIGNIFICANT STEERING FLOW ANYMORE, THEN MAKING A LOOP DURING ITS TRACK. THE ECMWF ENSEMBLE PREDICTION PROPOSES A STRONG DISPERSION BUT A CLEAR MAJORITY ARE HEADING BACK NORTHWESTWARD, STEERED BY THE LOW-LEVEL FLOW AS ALCIDE SHOULD BE SIGNIFICANTLY WEAKENED.

ENVIRONMENTAL CONDITIONS ARE STILL FAVORABLE WITH AN EXCELLENT UPPER LEVEL DIVERGENCE AND SUFFICIENT OCEANIC POTENTIAL NORTH OF 15S. A NORTHWESTERN SECTOR VERTICAL WIND SHEAR IS SLOWLY TAKING PLACE IN THE MIDDLE AND UPPER TROPOSPHERE AND IS EXPECTED TO ALTER THE ALCIDE'S STRUCTURE THIS FRIDAY. THE SLOW MOVEMENT CONTRIBUTES IN THE INDUCED UNDERLYING WATER COOLING PARTICIPATING IN A NEGATIVE FEEDBACK ON THE ALCIDE'S INTENSITY. FROM SUNDAY, IN A NEUTRAL ENVIRONMENT AND A RATHER DRY ATMOSPHERE, ALCIDE CONTINUES TO WEAKEN SLOWLY WHILE DRIFTING NORTHWESTWARD AND THEN WESTNORTHWESTWARD.