

WTIO30 FMEE 100640

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

0.A WARNING NUMBER: 17/2/20182019

1.A MODERATE TROPICAL STORM 2 (ALCIDE)

2.A POSITION 2018/11/10 AT 0600 UTC:

WITHIN 25 NM RADIUS OF POINT 12.8 S / 52.9 E

(TWELVE DECIMAL EIGHT DEGREES SOUTH AND FIFTY TWO DECIMAL NINE
DEGREES EAST)

MOVEMENT : NORTH 3 KT

3.A DVORAK ANALYSIS: NIL

4.A CENTRAL PRESSURE: 995 HPA

5.A MAX AVERAGE WIND SPEED (10 MN): 45 KT

RADIUS OF MAXIMUM WINDS (RMW) :37 KM

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

28 KT NE: 90 SE: 140 SW: 140 NW: 110

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

7.A FIRST CLOSED ISOBAR (PRESSURE / AVERAGE DIAM): 1011 HPA / 600 KM

8.A VERTICAL EXTENSION OF CYCLONE CIRCULATION : MEDIUM

1.B FORECASTS:

12H: 2018/11/10 18 UTC: 12.6 S / 52.8 E, MAX WIND=035 KT, MODERATE TROPICAL
STORM

24H: 2018/11/11 06 UTC: 12.5 S / 52.7 E, MAX WIND=030 KT, TROPICAL DEPRESSION

36H: 2018/11/11 18 UTC: 12.4 S / 52.6 E, MAX WIND=030 KT, TROPICAL DEPRESSION

48H: 2018/11/12 06 UTC: 12.2 S / 52.5 E, MAX WIND=030 KT, TROPICAL DEPRESSION

60H: 2018/11/12 18 UTC: 11.5 S / 52.1 E, MAX WIND=025 KT, FILLING UP

2.B LONGER-RANGE OUTLOOK :

2.C ADDITIONAL INFORMATION:

ALCIDE CLOUD PATTERN DECAY STRONGLY THIS MORNING, WITH A SIGNIFICANT
CLOUD TOPS WARMING AND THE COLLAPSE OF THE DEEP CONVECTION IN A VAST
EASTERN PART. MICROWAVE DATA CONFIRM THAT RAPID EVOLUTION WITH THE
DISAPPEARING OF THE EYE IN 89GHZ BY 0008Z AND 0252Z SSMIS. 0416Z GMI SHOW

THE INNER CORE IS STILL RESISTING. INTENSITY WAS DOWNGRADED TO 45KT , BUT THAT MAY BE TOO CONSERVATIVE.

THIS TREND IS PROBABLY RELATED TO THE CHANGE OF TRACK WHICH IS MOVING BACK OVER COOLED WATERS. A WESTERLY MID LEVEL CONSTRAINT WITHIN A DRY ENVIRONMENT MAY HAVE ALSO TOOK A PART IN THIS EVOLUTION.

DURING THE NEXT 24H, ALCIDE MOVEMENT SHOULD REMAIN SLOW. CURRENT FORECAST FAVOUR IN AGREEMENT WITH LATEST GUIDANCE, THE CONTINUATION OF THE NORTHWESTWARD TRACK, DESPITE SOME UNCERTAINTIES. FROM MONDAY, THE SYSTEM COULD ACCELERATE WEST-NORTHWESTWARD.

WHILE MOVING AWAY FROM THE COOLED WATERS, OCEANIC POTENTIAL IS LIKELY TO BE AGAIN SUFFICIENT. ON THE OTHER HAND, THE DRY ENVIRONMENT AND THE LACK OF EQUATORIAL CONVERGENCE MAY LIMIT THE CHANCE FOR REINTENSIFICATION. NUMERICAL GUIDANCE ARE IN GOOD AGREEMENT ON THIS SCENARIO AND SUGGEST A SLOW WEAKENING.