

WTIO30 FMEE 071301

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

0.A WARNING NUMBER: 6/2/20182019

1.A TROPICAL CYCLONE 2 (ALCIDE)

2.A POSITION 2018/11/07 AT 1200 UTC:

WITHIN 20 NM RADIUS OF POINT 10.5 S / 56.2 E

(TEN DECIMAL FIVE DEGREES SOUTH AND FIFTY SIX DECIMAL TWO DEGREES EAST)

MOVEMENT : WEST-SOUTH-WEST 7 KT

3.A DVORAK ANALYSIS: 4.0/4.5/D 1.5/12 H

4.A CENTRAL PRESSURE: 985 HPA

5.A MAX AVERAGE WIND SPEED (10 MN): 65 KT

RADIUS OF MAXIMUM WINDS (RMW) :46 KM

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

28 KT NE: 110 SE: 190 SW: 190 NW: 110

34 KT NE: 80 SE: 90 SW: 90 NW: 80

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

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

8.A VERTICAL EXTENSION OF CYCLONE CIRCULATION : DEEP

1.B FORECASTS:

12H: 2018/11/08 00 UTC: 11.2 S / 55.0 E, MAX WIND=070 KT, TROPICAL CYCLONE

24H: 2018/11/08 12 UTC: 12.0 S / 54.3 E, MAX WIND=075 KT, TROPICAL CYCLONE

36H: 2018/11/09 00 UTC: 12.5 S / 54.0 E, MAX WIND=075 KT, TROPICAL CYCLONE

48H: 2018/11/09 12 UTC: 13.0 S / 53.9 E, MAX WIND=065 KT, TROPICAL CYCLONE

60H: 2018/11/10 00 UTC: 13.1 S / 54.1 E, MAX WIND=050 KT, SEVERE TROPICAL STORM

72H: 2018/11/10 12 UTC: 12.9 S / 54.2 E, MAX WIND=040 KT, MODERATE TROPICAL STORM

2.B LONGER-RANGE OUTLOOK :

96H: 2018/11/11 12 UTC: 12.4 S / 53.7 E, MAX WIND=035 KT, MODERATE TROPICAL STORM

120H: 2018/11/12 12 UTC: 11.9 S / 52.3 E, MAX WIND=030 KT, TROPICAL DEPRESSION

2.C ADDITIONAL INFORMATION:

T=4.0+ CI=4.5-

THE BEST ALCIDE CLOUD PATTERN WAS OBSERVED WHEN ALCIDE HAS TRANSITED

OVER AGALEGA ISLAND WITH AN WELL-DEFINED EYE. THE MAURICIUS METEOROLOGICAL SERVICES HAS MEASURED A MINIMAL PRESSURE OF 993 HPA AT 0700Z DURING THE TRANSIT OF THE SYSTEM. SINCE 1000Z, CLOUD PATTERN HAS DETERIORATED WITH A RAGGED AND OBSCURED EYE. BUT 1144Z SSMIS MICROWAVE IMAGERY SHOWS AN INTERNAL STRUCTURE WITH AN 85 GHZ WELL-DEFINED EYE FEATURE. SO, THE CURRENT WEAKENING CLOUD PATTERN IS PROBABLY TEMPORARELY.

ALCIDE IS MOVING WESTSOUTHWESTWARD STEERED BY A LOW LEVEL RIDGE LOCATED IN THE SOUTH-EAST OF THE SYSTEM. WITH THE EXPECTED DEEPENING, THE MID-LEVELS PATTERNS WILL TAKE OVER. THE TRACK WILL THUS BEGIN TO BEND SOUTHWARD BEFORE A SIGNIFICANT SLOWING IN AN AREA WITHOUT SIGNIFICANT STEERING FLOW. IN THAT SYNOPTIC ENVIRONMENT, UNCERTAINTY IS RATHER STRONG. AT LONG RANGE, THE SYSTEM COULD BE TAKEN AWAY BY THE TRADE WINDS FLOW.

ENVIRONMENTAL CONDITIONS ARE FAVOURABLE WITH AN EXCELLENT UPPER LEVEL DIVERGENCE, A WEAK VERTICAL WINDSHEAR AND ENOUGH OCEANIC POTENTIAL NORTH OF 15S. FROM THURSDAY AND MOSTLY FRIDAY, VERTICAL WIND SHEAR IS FORECAST TO STRENGTHEN AND IMPACT ALCIDE STRUCTURE. EVEN IF THE VWS IS EXPECTED TO REMAIN MODERATE, THE EFFECT ON THIS SMALL SIZE SYSTEM COULD BE SIGNIFICANTLY. IT MAY ALSO BE FAVORED BY THE SLOW MOVEMENT AND THUS THE UNDERLYING WATER COOLING. THE CURRENT INTENSITY FORECAST IS BASED ON ECMWF MODEL WITH AN OCEAN/ATMOSPHERIC COUPLING THAT SHOULD ANTICIPATE THE WEAKENING OF SYSTEM LINKED TO THE SLOWLY MOVING FROM WEDNESDAY.