

WTIO30 FMEE 140637

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

0.A WARNING NUMBER: 8/1/20202021

1.A SEVERE TROPICAL STORM 1 (ALICIA)

2.A POSITION 2020/11/14 AT 0600 UTC:

WITHIN 20 NM RADIUS OF POINT 8.6 S / 78.6 E

(EIGHT DECIMAL SIX DEGREES SOUTH AND  
SEVENTY EIGHT DECIMAL SIX DEGREES EAST)

MOVEMENT: WEST-SOUTH-WEST 9 KT

3.A DVORAK ANALYSIS: 3.5/3.5/D 1.0/24 H

4.A CENTRAL PRESSURE: 992 HPA

5.A MAX AVERAGE WIND SPEED (10 MN): 50 KT

RADIUS OF MAXIMUM WINDS (RMW): 50 KM

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

28 KT NE: 190 SE: 240 SW: 170 NW: 160

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

48 KT NE: 60 SE: 60 SW: 0 NW: 0

7.A FIRST CLOSED ISOBAR (PRESSURE / AVERAGE DIAM): 1009 HPA / 700 KM

8.A VERTICAL EXTENSION OF CYCLONE CIRCULATION: DEEP

1.B FORECASTS:

12H: 2020/11/14 18 UTC: 10.4 S / 76.2 E, VENT MAX= 060 KT, SEVERE TROPICAL STORM

24H: 2020/11/15 06 UTC: 12.7 S / 74.4 E, VENT MAX= 070 KT, TROPICAL CYCLONE

36H: 2020/11/15 18 UTC: 15.1 S / 73.8 E, VENT MAX= 080 KT, TROPICAL CYCLONE

48H: 2020/11/16 06 UTC: 16.9 S / 73.3 E, VENT MAX= 070 KT, TROPICAL CYCLONE

60H: 2020/11/16 18 UTC: 17.9 S / 73.1 E, VENT MAX= 050 KT, SEVERE TROPICAL STORM

72H: 2020/11/17 06 UTC: 19.1 S / 72.8 E, VENT MAX= 040 KT, MODERATE TROPICAL  
STORM

2.B LONGER-RANGE OUTLOOK:

96H: 2020/11/18 06 UTC: 22.1 S / 71.1 E, VENT MAX= 025 KT, FILLING UP

2.C ADDITIONAL INFORMATION:

T=CI=3.5

ALICIA CONTINUES TO SHOW SIGNS OF ORGANIZATION. IN CLASSICAL IMAGERY,  
THE WELL DEFINED CURVED BAND PATTERN OF THIS MORNING IS EVOLVING INTO  
A CDO PATTERN AFTER A BURST OF DEEP CONVECTION HAS OCCURRED NEAR THE  
CENTER SINCE 03Z. THE MORNING MICROWAVE IMAGERY REVEAL A FURTHER

CONSOLIDATION OF THE LOW LEVELS STRUCTURE. THE FINAL INTENSITY IS ESTIMATED AT 50 KT IN THE HIGH RANGE OF THE LAST AVAILABLE DVORAK ESTIMATES (40-50 KT IN 10-MIN WINDS) BUT IN GOOD AGREEMENT WITH AN ADT AT 45-50 KT (10-MIN WINDS) AND WINDS OVER 45 KT MEASURED IN THE NORTHEAST QUADRANT BY THIS MORNING'S ASCAT.

ALICIA HAS SLOWED DOWN THESE LAST 6 HOURS BUT SHOULD RESUME A FAIRLY FAST SOUTHWESTWARD MOVEMENT GUIDED BY THE GUIDING FLOW GENERATED BY THE SUBTROPICAL RIDGE. UNDER THE IMPULSE OF THE DYNAMICS FURTHER SOUTH, THE RIDGE IS GRADUALLY SHIFTING EASTWARDS AND WILL LEAVE A NORTHERLY GUIDING FLOW FROM SUNDAY ONWARDS. THE NUMERICAL MODELS ARE IN GOOD AGREEMENT ON THIS GLOBAL TRAJECTORY. AT THE END OF THE DEADLINE, THE UNCERTAINTY BECOMES IMPORTANT IN RELATION TO THE WEAK GUIDING FLOW AND THE EXISTENCE OF TWO POSSIBLE SCENARIOS: THE PERSISTENCE OF A SOUTHWARD OR SOUTHEASTERLY SHIFT OR THE RESUMPTION OF THE RESIDUAL MINIMUM IN THE TRADE WIND FLOW.

ON THIS TRACK, THE ENVIRONMENTAL CONDITIONS ARE VERY FAVORABLE UP TO MONDAY MORNING. WITH THE HELP OF STRENGTHENING EQUATORIAL WESTERLY WINDS, A VERY GOOD DIVERGENCE, LITTLE SHEAR AND A VERY STRONG OCEANIC POTENTIAL, ALICIA IS LIKELY TO REACH TROPICAL CYCLONE INTENSITY IN THE NEXT 24/48H. AT THE BEGINNING OF NEXT WEEK, CONDITIONS ARE EXPECTED TO DETERIORATE SIGNIFICANTLY WITH INSUFFICIENT OCEANIC POTENTIAL SOUTH OF 17S, AND INCREASING SHEAR ASSOCIATED GRADUALLY WITH DRY MID-TROPOSPHERIC AIR INTRUSIONS.