

WTIO30 FMEE 150016
RSMC / TROPICAL CYCLONE CENTER / LA REUNION
TROPICAL CYCLONE FORECAST WARNING (SOUTH-WEST INDIAN OCEAN)

0.A WARNING NUMBER: 11/1/20202021

1.A SEVERE TROPICAL STORM 1 (ALICIA)

2.A POSITION 2020/11/15 AT 0000 UTC:
WITHIN 20 NM RADIUS OF POINT 11.6 S / 75.3 E
(ELEVEN DECIMAL SIX DEGREES SOUTH AND
SEVENTY FIVE DECIMAL THREE DEGREES EAST)
MOVEMENT: SOUTH-WEST 14 KT

3.A DVORAK ANALYSIS: 3.5/3.5/S 0.0/18 H

4.A CENTRAL PRESSURE: 992 HPA

5.A MAX AVERAGE WIND SPEED (10 MN): 50 KT
RADIUS OF MAXIMUM WINDS (RMW): 37 KM

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

28 KT NE: 80 SE: 370 SW: 280 NW: 80

34 KT NE: 40 SE: 90 SW: 110 NW: 0

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

7.A FIRST CLOSED ISOBAR (PRESSURE / AVERAGE DIAM): 1005 HPA / 500 KM

8.A VERTICAL EXTENSION OF CYCLONE CIRCULATION: DEEP

1.B FORECASTS:

12H: 2020/11/15 12 UTC: 13.9 S / 73.8 E, VENT MAX= 060 KT, SEVERE TROPICAL STORM

24H: 2020/11/16 00 UTC: 15.8 S / 73.5 E, VENT MAX= 065 KT, TROPICAL CYCLONE

36H: 2020/11/16 12 UTC: 17.0 S / 73.2 E, VENT MAX= 055 KT, SEVERE TROPICAL STORM

48H: 2020/11/17 00 UTC: 17.8 S / 72.9 E, VENT MAX= 045 KT, MODERATE TROPICAL
STORM

60H: 2020/11/17 12 UTC: 18.8 S / 72.4 E, VENT MAX= 035 KT, MODERATE TROPICAL
STORM

72H: 2020/11/18 00 UTC: 20.0 S / 71.4 E, VENT MAX= 025 KT, FILLING UP

2.B LONGER-RANGE OUTLOOK:

96H: 2020/11/19 00 UTC: 20.0 S / 69.6 E, VENT MAX= 020 KT, REMNANT LOW

2.C ADDITIONAL INFORMATION:

T=3.5-;CI=3.5

OVER THE LAST 6 HOURS, STRONG CONVECTIVE ACTIVITY MAINTAINED NEAR THE
CIRCULATION CENTER AND THE CLOUD PATTERN PROGRESSIVELY SHIFTED BACK
ONTO A CURVED BAND STRUCTURE. THE RSMC INTENSITY ESTIMATE IS STILL

BASED ON A CONSENSUS BETWEEN THE DVORAK ANALYSIS AND AVAILABLE OBJECTIVE DATA. MEANWHILE, THE 2241Z SSMIS 89GHZ IMAGE SHOWS AN IMPROVING INNER ORGANISATION DESPITE A CLEAR WEAKNESS ON THE EASTERN SIDE. THIS SUGGESTS THAT THE INTENSIFICATION COULD SOON RESUME.

ALICIA KEEPS ON HEADING SOUTHWESTWARD AT A QUICK PACE ON THE NORTH-WESTERN SIDE OF THE MID-LEVEL SUBTROPICAL RIDGE. WITH THE ARRIVAL OF A DEEP TROUGH FROM THE SOUTH-WEST, THE RIDGE SHIFTS EASTWARD AND SHOULD SOON LET ALICIA DIVE SOUTHWARD BY THIS EVENING. AVAILABLE GUIDANCE IS IN GOOD AGREEMENT ON THIS SCENARIO. FROM TUESDAY, THE UNCERTAINTY IS GREATER WITH TWO POSSIBLE SCENARIOS SUGGESTED BY THE ENSEMBLE GUIDANCE : THE PERSISTENCE OF A SOUTH TO SOUTHEASTWARD MOTION OR THE CAPTURE OF THE REMNANT LOW BY THE TRADE WINDS. THE LAST EURO MODEL RUN SHIFTED ON THIS SECOND OPTION. THUS, THE LAST PART OF THE TRACK FORECAST HAS BEEN QUITE SIGNIFICANTLY SHIFTED WESTWARD BASED ON A CONSENSUS OF AVAILABLE GUIDANCE.

ENVIRONMENTAL CONDITIONS ARE RATHER CONDUCIVE UNTIL SUNDAY NIGHT, AS THE SYSTEM SHOULD SOON TRACK UNDER THE UPPER RIDGE AXIS. ALICIA SHOULD STILL BENEFIT FROM AN EXCELLENT DIVERGENCE, RELATIVELY WEAK WIND SHEAR AND A VERY STRONG OCEANIC ENERGY CONTENT. THE SYSTEM COULD STILL REACH THE TROPICAL CYCLONE STAGE BY THIS EVENING. SUNDAY NIGHT, CONDITIONS SHOULD BEGIN TO QUICKLY DETERIORATE WITH INSUFFICIENT SEA TEMPERATURES SOUTH OF 17S, A STRENGTHENING SHEAR CONSTRAINT, GRADUALLY ASSOCIATED TO MID-LEVEL DRY INTRUSIONS.