

WTIO30 FMEE 161322

RSMC / TROPICAL CYCLONE CENTER / LA REUNION

TROPICAL CYCLONE FORECAST WARNING (SOUTH-WEST INDIAN OCEAN)

0.A WARNING NUMBER: 17/1/20202021

1.A SEVERE TROPICAL STORM 1 (ALICIA)

2.A POSITION 2020/11/16 AT 1200 UTC:

WITHIN 20 NM RADIUS OF POINT 16.6 S / 72.0 E

(SIXTEEN DECIMAL SIX DEGREES SOUTH AND  
SEVENTY TWO DECIMAL ZERO DEGREES EAST)

MOVEMENT: SOUTH-SOUTH-WEST 7 KT

3.A DVORAK ANALYSIS: 3.5/4.5/W 1.0/6 H

4.A CENTRAL PRESSURE: 981 HPA

5.A MAX AVERAGE WIND SPEED (10 MN): 60 KT

RADIUS OF MAXIMUM WINDS (RMW): 46 KM

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

28 KT NE: 170 SE: 220 SW: 220 NW: 130

34 KT NE: 120 SE: 120 SW: 150 NW: 90

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

7.A FIRST CLOSED ISOBAR (PRESSURE / AVERAGE DIAM): 1006 HPA / 600 KM

8.A VERTICAL EXTENSION OF CYCLONE CIRCULATION: DEEP

1.B FORECASTS:

12H: 2020/11/17 00 UTC: 17.2 S / 71.8 E, VENT MAX= 045 KT, MODERATE TROPICAL  
STORM

24H: 2020/11/17 12 UTC: 18.6 S / 71.3 E, VENT MAX= 035 KT, MODERATE TROPICAL  
STORM

36H: 2020/11/18 00 UTC: 20.4 S / 70.6 E, VENT MAX= 030 KT, FILLING UP

48H: 2020/11/18 12 UTC: 21.1 S / 69.8 E, VENT MAX= 030 KT, FILLING UP

60H: 2020/11/19 00 UTC: 21.6 S / 68.5 E, VENT MAX= 025 KT, FILLING UP

2.B LONGER-RANGE OUTLOOK:

NIL

2.C ADDITIONAL INFORMATION:

T=3.5 CI=4.5-

OVER THE LAST SIX HOURS, ALICIA CLOUD PATTERN BARELY EVOLVED. THE WARM  
SPOT STILL DISCERNIBLE AT 06Z DISAPPEARED RAPIDLY. SOME CONVECTIVE  
BURSTS STILL OCCUR NEAR THE CENTER. THE SHEAR PATTERN OF THE LOW IS  
CONFIRMED BY LATEST MICROWAVES SUCH AS 0831Z AMSR2 AND 1105Z. IN

AGREEMENT WITH OBJECTIVE INTENSITY ANALYSIS (SATCON/ADT), INTENSITY WAS THUS DOWNGRADED TO 60KT. MINIMAL ESTIMATED CENTRAL PRESSURE WAS ADJUSTED THANKS TO THE BUOY 5601578 CURRENTLY MEASURING A PRESSURE AROUND 990HPA AT NEARLY 20NM FROM THE CENTER CLOSE TO THE INNER BORDER OF THE EYEWALL.

THE TRACK FORECAST REMAINS DRIVEN BY THE EASTWARD SHIFT OF THE SUBTROPICAL RIDGE WHICH INDUCES A POLEWARDS TRACK. IT THEN BECOME MORE ZONAL THANKS TO THE ARRIVAL OF THE SUBTROPICAL ANTICYCLONE, WHEN THE SYSTEM BECOMES WEAK. THE PROBABILITY OF A FUJIWARA EFFECT WITH TROPICAL DEPRESSION 02 SEEMS RATHER LOW DUE TO THE SHORT SIZE OF 02. UNCERTAINTY IS RATHER STRONG NEVERTHELESS WITH MANY EPS MEMBERS OF DETERMINISTIC GUIDANCE SUGGESTING A MORE SOUTHEASTWARD TRACK.

ALICIA HAS STARTED ITS RAPID WEAKENING PHASE DUE TO THE ARRIVAL OF DRY AIR ABOVE THE INNER CORE IN RELATION WITH SHEAR. THE DISAPPEARING OF THE SUFFICIENT OCEANIC POTENTIAL SHOULD END ANY POSSIBILITY FOR RENEWED TROPICAL DEEPENING AND FILL UP THE SYSTEM.