



Direction Interrégionale pour l'Océan Indien  
50, Boulevard du Chaudron  
97490 Sainte-Clotilde  
Tél : 0262 92 11 00  
Fax Exploitation : 0262 92 11 48  
Fax Direction : 0262 92 11 47



**METEO FRANCE**

WTIO30 FMEE 230652

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

0.A WARNING NUMBER: 15/1/20152016

1.A SEVERE TROPICAL STORM 1 (ANNABELLE)

2.A POSITION 2015/11/23 AT 0600 UTC:

WITHIN 20 NM RADIUS OF POINT 15.2 S / 74.9 E

(FIFTEEN DECIMAL TWO DEGREES SOUTH AND SEVENTY FOUR DECIMAL NINE DEGREES EAST)

MOVEMENT : SOUTH-EAST 14 KT

3.A DVORAK ANALYSIS: 4.0/4.0/D 0.5/6 H

4.A CENTRAL PRESSURE: 986 HPA

5.A MAX AVERAGE WIND SPEED (10 MN): 55 KT

RADIUS OF MAXIMUM WINDS (RMW) :52 KM

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

28 KT NE: 280 SE: 240 SW: 190 NW: 150

34 KT NE: 150 SE: 110 SW: 110 NW: 90

48 KT NE: 90 SE: 60 SW: 0 NW: 0

7.A FIRST CLOSED ISOBAR (PRESSURE / AVERAGE DIAM): 1007 HPA / 600 KM

8.A VERTICAL EXTENSION OF CYCLONE CIRCULATION : DEEP

1.B FORECASTS:

12H: 2015/11/23 18 UTC: 17.4 S / 76.4 E, MAX WIND=045 KT, MODERATE TROPICAL STORM

24H: 2015/11/24 06 UTC: 20.3 S / 78.5 E, MAX WIND=045 KT, POST-TROPICAL DEPRESSION

36H: 2015/11/24 18 UTC: 22.8 S / 80.2 E, MAX WIND=040 KT, POST-TROPICAL DEPRESSION

48H: 2015/11/25 06 UTC: 24.3 S / 81.1 E, MAX WIND=035 KT, POST-TROPICAL DEPRESSION

60H: 2015/11/25 18 UTC: 25.0 S / 80.9 E, MAX WIND=030 KT, LOW

72H: 2015/11/26 06 UTC: 24.6 S / 80.2 E, MAX WIND=025 KT, LOW

2.B LONGER-RANGE OUTLOOK :

2.C ADDITIONAL INFORMATION:

FT=CI=4.0-

THE FAST MOTION OF THE SYSTEM IN THE SAME DIRECTION OF THE UPPER LEVEL WINDS HELP THE SYSTEM TO TAKE BENEFIT FROM THE STRONG UPPER LEVEL DIVERGENCE LOCATED POLEWARD. THE SYSTEM HAS SHOWN ITS BEST SATELLITE PRESENTATION AROUND 04Z WITH A HINT OF AN EYE FEATURE. SINCE THAT TIME, THE CLOUD PATTERN HAS SLIGHTLY DETERIORATED BUT REMAIN FAIRLY IMPRESSIVE WITH THE CENTER STILL EMBEDDED WITHIN COLD CLOUD TOPS. AVAILABLE SUBJECTIVE AND OBJECTIVE INTENSITY ANALYSIS GUIDANCE ARE IN GOOD AGREEMENT WITH THE CURRENT INTENSITY ASSESSMENT.

THE NWP MODELS REMAINS IN TIGHT AGREEMENT FOR AN ACCELERATING SOUTHEASTWARDS MOVEMENT TOWARDS A LARGE MID-TROPOSPHERIC TROUGH. THE NORTH-WESTERLY UPPER WINDS WILL STRENGTHEN LATER TODAY AND ALONG WITH COOLER SST SOUTH OF 15S SHOULD RESULT ON GRADUAL WEAKENING FOR REMAINING OF THE FORECAST TRACK.

TONIGHT, AN INTERACTION WITH AN UPPER LEVEL TROUGH LOCATED TO THE SOUTH-WEST OF THE STORM SHOULD BRING SOME BAROCLINIC CONDITIONS WITHIN THE SYSTEM ... THEREFORE, ANNABELLE IS EXPECTED TO GAIN SOME HYBRID CHARACTERISTICS AND BECOME POST-TROPICAL MONDAY NIGHT OR TUESDAY MORNING

FROM WEDNESDAY, AS THE UPPER TROUGH SHOULD SHIFT EASTWARDS, THE WESTERLY VERTICAL WINDSHEAR WILL BECOME VERY UNFAVORABLE, AND THE LLCC IS LIKELY TO FILL UP RAPIDLY. THE TRACK OF THE RESIDUAL LOW SHOULD THEN BEND WESTWARDS THURSDAY, BETWEEN 20S AND 25S, STEERED BY THE SUBTROPICAL RIDGE.