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**METEO FRANCE**

WTIO30 FMEE 181356

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

0.A WARNING NUMBER: 7/1/20162017

1.A MODERATE TROPICAL STORM 1 (ABELA)

2.A POSITION 2016/07/18 AT 1200 UTC:

WITHIN 15 NM RADIUS OF POINT 14.1 S / 59.3 E

(FOURTEEN DECIMAL ONE DEGREES SOUTH AND FIFTY NINE DECIMAL THREE DEGREES EAST)

MOVEMENT : WEST-SOUTH-WEST 12 KT

3.A DVORAK ANALYSIS: 3.5/3.5/D 0.5/12 H

4.A CENTRAL PRESSURE: 998 HPA

5.A MAX AVERAGE WIND SPEED (10 MN): 45 KT

RADIUS OF MAXIMUM WINDS (RMW) :37 KM

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

28 KT NE: 90 SE: 370 SW: 190 NW: 90

34 KT NE: 60 SE: 190 SW: 110 NW: 60

7.A FIRST CLOSED ISOBAR (PRESSURE / AVERAGE DIAM): 1010 HPA / 400 KM

8.A VERTICAL EXTENSION OF CYCLONE CIRCULATION : MEDIUM

1.B FORECASTS:

12H: 2016/07/19 00 UTC: 15.0 S / 56.9 E, MAX WIND=040 KT, MODERATE TROPICAL STORM

24H: 2016/07/19 12 UTC: 16.2 S / 54.5 E, MAX WIND=035 KT, MODERATE TROPICAL STORM

36H: 2016/07/20 00 UTC: 17.3 S / 52.3 E, MAX WIND=030 KT, TROPICAL DEPRESSION

48H: 2016/07/20 12 UTC: 18.7 S / 51.1 E, MAX WIND=030 KT, TROPICAL DEPRESSION

60H: 2016/07/21 00 UTC: 20.8 S / 50.1 E, MAX WIND=025 KT, LOW

72H: 2016/07/21 12 UTC: 23.7 S / 49.1 E, MAX WIND=025 KT, LOW

2.B LONGER-RANGE OUTLOOK :

2.C ADDITIONAL INFORMATION:

T=CI=3.5.

DURING THE MORNING, THE SYSTEM HAS CONCENTRATED INTO A SMALL SIZE CIRCULATION WITH STRONG VORTICITY, IN A MIDGET PATTERN WITH CONVECTION

YET QUITE WARM, BUT WHICH SEEMS TO BECOME COLDER IN THE EVERY LAST HOURS.

THE LAST MICRO-WAVES DATA AMSR OF 0858Z, SHOW A LOW LEVEL EYE WITHIN A CDO MORE OR LESS REGULAR OF ABOUT 1 DEGREE OF DIAMETER.

UPPER LEVEL ENVIRONMENT REMAIN FAVORABLE UNDER THE UPPER LEVEL SUB-TROPICAL RIDGE, A PERSISTING GOOD POLAR OUTFLOW FOR THE NEXT HOURS.

ABELA KEEPS ON HEADING WEST-SOUTH-WESTWARD. THE AVAILABLE MODEL GUIDANCE IS IN GOOD AGREEMENT AND FORECAST A TRACK FOLLOWING THIS DIRECTION UNTIL TOMORROW EVENING, STEERED BY AN AREA OF HIGH GEOPOTENTIALS IN THE SOUTH-EAST OF THE SYSTEM. THEN, UNCERTAINTY IS INCREASING A BIT AS ABELA SHOULD BEGIN TO TURN SOUTHWARD. MOST OF THE AVAILABLE NWP MODELS NOW FORECAST THIS TURN, WITH STILL SOME DIFFERENCES IN TIMING BETWEEN DETERMINISTIC MODELS. THE ECFWM ENSEMBLE FORECAST CONTINUE TO GIVE A WILDE DISPERSION FOR THIS PERIOD

ALONG THIS TRACK, THE UPPER LEVEL CONDITIONS REMAIN CONDUCIVE WITH STILL A GOOD UPPER DIVERGENCE FOR THE NEXT HOURS AND BECOME NEUTRAL TUESDAY. HOWEVER THE LACK OF OCEANIC ENERGY SHOULD LIMIT THE CONVECTION INTENSITY AND SO THE DEVELOPMENT OF THIS SYSTEM AT SHORT OR MIDDLE RANGE. FROM TUESDAY, ABELA SHOULD BEGIN TO WEAKEN IN A SENSIBLY DRIER ENVIRONMENT AND FROM WEDNESDAY MORE RAPIDLY WITH AN INCREASING NORTH-WESTERLY WINDSHEAR AHEAD OF AN UPPER TROUGH.

SOME PRECIPITATIONS BANDS IN ABELA'S PERIPHERY COULD REACH THE GREAT MASCAREIGNES ISLANDS FROM TONIGHT.