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METEO FRANCE

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

0.A WARNING NUMBER: 9/1/20162017

1.A MODERATE TROPICAL STORM 1 (ABELA)

2.A POSITION 2016/07/19 AT 0000 UTC:

WITHIN 20 NM RADIUS OF POINT 14.8 S / 56.7 E

(FOURTEEN DECIMAL EIGHT DEGREES SOUTH AND FIFTY SIX DECIMAL SEVEN DEGREES EAST)

MOVEMENT : WEST-SOUTH-WEST 12 KT

3.A DVORAK ANALYSIS: 2.5/3.0/W 0.5/12 H

4.A CENTRAL PRESSURE: 1002 HPA

5.A MAX AVERAGE WIND SPEED (10 MN): 40 KT

RADIUS OF MAXIMUM WINDS (RMW) :37 KM

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

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

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

7.A FIRST CLOSED ISOBAR (PRESSURE / AVERAGE DIAM): 1011 HPA / 400 KM

8.A VERTICAL EXTENSION OF CYCLONE CIRCULATION : MEDIUM

1.B FORECASTS:

12H: 2016/07/19 12 UTC: 15.8 S / 54.3 E, MAX WIND=035 KT, MODERATE TROPICAL STORM

24H: 2016/07/20 00 UTC: 16.7 S / 52.4 E, MAX WIND=030 KT, TROPICAL DEPRESSION

36H: 2016/07/20 12 UTC: 17.8 S / 50.9 E, MAX WIND=025 KT, LOW

48H: 2016/07/21 00 UTC: 18.9 S / 49.8 E, MAX WIND=020 KT, REMNANT LOW

2.B LONGER-RANGE OUTLOOK :

2.C ADDITIONAL INFORMATION:

T=2.5 CI=3.0-

OVER THE LAST SIX HOURS, CONVECTIVE CLOUD TOPS GOT MUCH MORE WARMER, LOOSING ITS ORGANIZATION. ALTHOUGH GOOD UPPER LEVEL CONDITIONS, THE DRYER ENVIRONMENT ASSOCIATED WITH THE LACK OF OCEANIC POTENTIAL

STOPPED ABELA'S DEEPENING. LAST MICROWAVE DATA (GMI 2206Z) CONFIRM THE DETERIORATION OF THE INNER CORE WITH A LARGER EYE IN 37GHZ. IT IS LIKELY THAT ITS SMALL SIZE HELPED IN THE FASTER DECAY.

ABELA KEEPS ON HEADING WEST-SOUTH-WESTWARD THEN SOUTH-WEST. THE AVAILABLE MODEL GUIDANCE IS IN GOOD AGREEMENT AND FORECAST A TRACK FOLLOWING THIS DIRECTION, STEERED BY AN AREA OF HIGH GEOPOTENTIALS IN THE SOUTH-EAST OF THE SYSTEM. AROUND MIDDAY, THE STORM IS FORECASTED TO PASS LESS THAN 50KM FROM TROMELIN ISLAND. THIS TRACK FORECAST IS BASED ON A MEDIAN SCENARIO OF MAJOR DETERMINISTIC GUIDANCE, AVNO PARTICULARLY.

ALONG THIS TRACK, ABELA IS NOT EXPECTED TO INTENSIFY ANYMORE, IN AN ENVIRONMENT LESS AND LESS CONDUCIVE. THE LOW IS FORECAST TO FILL UP QUICKLY EVEN IF THE PRESSURE GRADIENT WILL REMAIN STRONG BEACAUSE OF THE PROXIMITY OF THE HIGH.

FIRST RAINBANDS ASSOCIATED WITH ABELA REACHED MAURICE ISLAND AND WILL AFFECT REUNION ISLAND TODAY.