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WTIO30 FMEE 060041

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

0.A WARNING NUMBER: 5/2/20162017

1.A SUBTROPICAL DEPRESSION 2 (BRANSBY)

2.A POSITION 2016/10/06 AT 0000 UTC:

WITHIN 20 NM RADIUS OF POINT 30.0 S / 45.2 E

(THIRTY DECIMAL ZERO DEGREES SOUTH AND FORTY FIVE DECIMAL TWO DEGREES EAST)

MOVEMENT : SOUTH-EAST 11 KT

3.A DVORAK ANALYSIS: NIL

4.A CENTRAL PRESSURE: 991 HPA

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

RADIUS OF MAXIMUM WINDS (RMW) :NIL

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

28 KT NE: 250 SE: 170 SW: 90 NW: 220

34 KT NE: 130 SE: 100 SW: 0 NW: 80

7.A FIRST CLOSED ISOBAR (PRESSURE / AVERAGE DIAM): 1011 HPA / 1000 KM

8.A VERTICAL EXTENSION OF CYCLONE CIRCULATION : MEDIUM

1.B FORECASTS:

12H: 2016/10/06 12 UTC: 32.6 S / 47.0 E, MAX WIND=035 KT, SUBTROPICAL DEPRESSION

24H: 2016/10/07 00 UTC: 35.4 S / 48.9 E, MAX WIND=030 KT, LOW

36H: 2016/10/07 12 UTC: 38.0 S / 51.1 E, MAX WIND=000 , DISSIPATING

2.B LONGER-RANGE OUTLOOK :

2.C ADDITIONAL INFORMATION:

THE OVERALL ORGANISATION HAS IMPROVED OVERNIGHT WITH A CONSOLIDATING DEEP CONVECTION NEAR THE CENTER AND A PRETTY WELL DEFINED BANDING EYE PATTERN ON THE VERY LAST SAT IMAGERY. ALTHOUGH ASCAT DATA HAS NOT ALLOWED A BETTER ESTIMATION OF THE STRENGTH OF THE CIRCULATION, THIS IMPROVEMENT OF THE CLOUD PATTERN JUSTIFY AN INCREASE

IN THE ESTIMATE INTENSITY.

WV IMAGERY STILL SHOW AN UPPER LEVEL OUTFLOW OVER THE SYSTEM AND A SECONDARY CYCLONIC UPPER LEVEL VORTEX CURRENTLY LOCATED AT 800 KM TO THE NORTH-WEST OF BRANSBY AND ROTATING WITHIN THE BROADER LARGE SCALE UPPER LEVEL TROUGH. ITS ASSOCIATED CIRCULATION SEEMS TO PROVIDE AN OUTFLOW CHANNEL OVER THE NORTHERN AND NORTHER-WESTERN PART OF BRANSBY.

AS ANTICIPATED, BRANSBY IS CURRENTLY ACCELERATING NOW SOUTH-EASTWARDS AND SHOULD STAY ON THIS TRACK UNTIL DISSIPATION. THIS TRACK FORECAST IS SHARED BY ALL THE AVAILABLE GUIDANCE WITH A WEAK SPREAD.

THE CURRENT FAVORABLE WINDOW SHOULD SOON BEGIN TO END. LATEST NWP OUTPUTS SUGGEST THAT UPPER DIVERGENCE SHOULD NOT BE AS FAVORABLE THAN YESTERDAY ALTHOUGH A SOUTHEASTWARD OUTFLOW CHANNEL COULD MAINTAIN. MOREOVER A WESTERLY CONSTRAINT SHOULD START TO BUILD FOLLOWED BY A SHARP INCREASE IN THE SOUTHWESTERLY CONSTRAINT THURSDAY NIGHT AS THE UPPER LEVEL TROUGH IS CAUGHT AGAIN BY THE WESTERLY EDDIES CIRCULATION. THIS SHOULD LEAD TO THE VENTILATION OF THE WARM CORE THEN TO THE RAPID FILLING OF THE LOW BY FRIDAY.

NWP SUGGEST UNANIMOUSLY THAT THE CURRENT SURFACE WIND FIELD OF BRANSBY IS NOW DISCONNECTED FROM THE PRESSURE GRADIENT AREA TO ITS SOUTH. THUS THE WINDS RADII HAS BEEN SIGNIFICANTLY CHANGED.