

WTIO30 FMEE 281835

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

0.A WARNING NUMBER: 1/9/20172018

1.A MODERATE TROPICAL STORM 9 (FLAMBOYAN)

2.A POSITION 2018/04/28 AT 1800 UTC:

WITHIN 25 NM RADIUS OF POINT 9.9 S / 90.1 E

(NINE DECIMAL NINE DEGREES SOUTH AND NINETY DECIMAL ONE DEGREES EAST)

MOVEMENT : WEST-SOUTH-WEST 10 KT

3.A DVORAK ANALYSIS: 2.5/2.5/D 1.0/24 H

4.A CENTRAL PRESSURE: 1002 HPA

5.A MAX AVERAGE WIND SPEED (10 MN): 35 KT

RADIUS OF MAXIMUM WINDS (RMW) :37 KM

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

28 KT NE: 70 SE: 150 SW: 110 NW: 70

34 KT NE: 50 SE: 60 SW: 60 NW: 50

7.A FIRST CLOSED ISOBAR (PRESSURE / AVERAGE DIAM): 1010 HPA / 800 KM

8.A VERTICAL EXTENSION OF CYCLONE CIRCULATION : MEDIUM

1.B FORECASTS:

12H: 2018/04/29 06 UTC: 11.4 S / 88.1 E, MAX WIND=040 KT, MODERATE TROPICAL STORM

24H: 2018/04/29 18 UTC: 13.3 S / 86.0 E, MAX WIND=050 KT, SEVERE TROPICAL STORM

36H: 2018/04/30 06 UTC: 14.7 S / 85.1 E, MAX WIND=055 KT, SEVERE TROPICAL STORM

48H: 2018/04/30 18 UTC: 15.8 S / 84.7 E, MAX WIND=060 KT, SEVERE TROPICAL STORM

60H: 2018/05/01 06 UTC: 17.2 S / 84.9 E, MAX WIND=050 KT, SEVERE TROPICAL STORM

72H: 2018/05/01 18 UTC: 19.1 S / 85.7 E, MAX WIND=045 KT, MODERATE TROPICAL STORM

2.B LONGER-RANGE OUTLOOK :

96H: 2018/05/02 18 UTC: 22.2 S / 87.3 E, MAX WIND=030 KT, FILLING UP

120H: 2018/05/03 18 UTC: 26.1 S / 89.5 E, MAX WIND=025 KT, FILLING UP

2.C ADDITIONAL INFORMATION:

T=CI=2.5+

FLAMBOYAN IS CURRENTLY ON THE EASTERN BORDER OF THE RSMC AREA OF RESPONSABILITY. CONVECTION REMAINS LESS SPREAD THAN EARLY TODAY BUT

STILL CONCENTRATED AROUND THE CENTER. 89GHZ MW IMAGE OF THE SSMIS 1233Z SWATH SHOW A CONSOLIDATING COMPACT INNER CORE. 1530Z ASCAT SWATH COVERED THE EASTERN SEMI-CIRCLE QUITE CLOSE TO THE CENTER BUT SHOWED WINDS ONLY REACHING NEAR GALE WINDS. OBJECTIVE (ADT) AND SUBJECTIVE DVORAK ESTIMATES FROM OTHER AGENCIES RANGE BETWEEN 2.5 AND 3.0, IN AGREEMENT WITH THE RSMC ANALYSIS.

FLAMBOYAN SHOULD FOLLOW A CLASSIC PARABOLIC TRACK STEERED BY A MID-TROPOSPHERE RIDGE CURRENTLY LOCATED IN THE SOUTH-EAST. THE DETERMINISTIC AND ENSEMBLE MODELS SUGGEST A LOW DISPERSION WITH MAINLY ALONG-TRACK DIFFERENCES OF TIMING. IN THE END OF THE TAUS, THE ARRIVAL OF A MID-LATITUDES TROUGH IN THE SOUTH-WEST COULD ACCELERATE THE EVACUATION OF THE SYSTEM TOWARDS THE SOUTH-EAST.

FLAMBOYAN IS CURRENTLY LOCATED UNDER THE AXIS OF THE NEAR EQUATORIAL UPPER RIDGE, WIND SHEAR IS THUS LOW AND THE UPPER DIVERGENCE IS STRONG. THE SYSTEM SHOULD BENEFIT FROM THIS WINDOW OF CONDUCIVE ENVIRONMENTAL CONDITIONS TO GRADUALLY INTENSIFY. FROM MONDAY EVENING, DRY AIR COULD BEGIN TO SLITHER IN THE CIRCULATION, WHILE A NORTH-WESTERLY SHEAR BEGIN TO APPEAR. TUESDAY, THE STRENGHTENING OF THE SHEAR AND LESS ENERGY IN THE OCEAN SOUTH OF 20S WILL TRIGGER THE WEAKENING PHASE OF FLAMBOYAN. THE SYSTEM IS EXPECTED TO FILL-UP BY THE END OF THE TAUS WHILE TRACKING SOUTHWARD.