

WTIO30 FMEE 271827

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

0.A WARNING NUMBER: 26/13/20182019

1.A INTENSE TROPICAL CYCLONE 13 (JOANINHA)

2.A POSITION 2019/03/27 AT 1800 UTC:

WITHIN 10 NM RADIUS OF POINT 20.6 S / 67.1 E

(TWENTY DECIMAL SIX DEGREES SOUTH AND
SIXTY SEVEN DECIMAL ONE DEGREES EAST)

MOVEMENT: SOUTH-EAST 5 KT

3.A DVORAK ANALYSIS: 5.5/6.0/W 0.5/12 H

4.A CENTRAL PRESSURE: 940 HPA

5.A MAX AVERAGE WIND SPEED (10 MN): 100 KT

RADIUS OF MAXIMUM WINDS (RMW): 30 KM

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

28 KT NE: 310 SE: 440 SW: 370 NW: 240

34 KT NE: 220 SE: 280 SW: 220 NW: 190

48 KT NE: 140 SE: 190 SW: 140 NW: 140

64 KT NE: 90 SE: 110 SW: 90 NW: 90

7.A FIRST CLOSED ISOBAR (PRESSURE / AVERAGE DIAM): 1009 HPA / 900 KM

8.A VERTICAL EXTENSION OF CYCLONE CIRCULATION: DEEP

1.B FORECASTS:

12H: 2019/03/28 06 UTC: 21.2 S / 67.4 E, VENT MAX= 090 KT, INTENSE TROPICAL
CYCLONE

24H: 2019/03/28 18 UTC: 21.8 S / 67.6 E, VENT MAX= 085 KT, TROPICAL CYCLONE

36H: 2019/03/29 06 UTC: 22.8 S / 67.8 E, VENT MAX= 075 KT, TROPICAL CYCLONE

48H: 2019/03/29 18 UTC: 23.6 S / 67.8 E, VENT MAX= 070 KT, TROPICAL CYCLONE

60H: 2019/03/30 06 UTC: 24.8 S / 67.8 E, VENT MAX= 060 KT, SEVERE TROPICAL STORM

72H: 2019/03/30 18 UTC: 26.0 S / 67.6 E, VENT MAX= 050 KT, SEVERE TROPICAL STORM

2.B LONGER-RANGE OUTLOOK:

96H: 2019/03/31 18 UTC: 29.8 S / 66.7 E, VENT MAX= 045 KT, POST-TROPICAL
DEPRESSION

120H: 2019/04/01 18 UTC: 33.8 S / 66.5 E, VENT MAX= 040 KT, POST-TROPICAL
DEPRESSION

2.C ADDITIONAL INFORMATION:

T=5.5+ CI=6.0-

DURING THE LAST 6 HOURS, ACCORDING TO MSG1 GEOSTATIONARY IMAGERIES THE INTENSITY OF THE SYSTEM SEEMS QUITE STATIONARY, THE EYE BETTER DEFINED AND WARMER AT THE BEGINNING OF THE PERIOD, APPEARS ELONGATED ON THE LAST IMAGES, BUT IN THE SAME TIME, THE ANNULAR VERY COLD CLOUDS TOPS HAS STRENGTHENED. THE RAW DT GOES ON FLUCTUATING BETWEEN 5.5 AND 6.

THE INTENSITY ASSESSMENT IS MAINTAINED AT 100 KT (10 MIN WIND) ACCORDING WITH THE 3 HOURS DT AVERAGE AND NEAR THE SATCON ANALYSIS. THE 1400Z 37 GHZ WINDSAT IMAGERY SHOWS ALWAYS A WEAKNESS WITHIN THE NORTHWESTERN QUADRANT OF THE MICROWAVE WAVE FEATURE THAT COULD INDICATE AN PERSISTENT INFLUENCE OF THE WESTERN VERTICAL WINDSHEAR AND A WEAKENING OF THE SYSTEM THIS NIGHT.

SINCE 12Z JOANINHA FOLLOWS AGAIN A TRACK TOWARDS EAST-SOUTH-EAST LIKELY DUE TO A NEAR EQUATORIAL RIDGE LOCATED TO THE NORTH-EAST. FROM TOMORROW, WITH THE EASTWARD SHIFTING OF A MID-LEVEL RIDGE LOCATED ON THE SOUTH OF THE SYSTEM, JOANINHA SHOULD CURVE SOUTHEASTWARD AND THEN SOUTHSOUTHEASTWARD AHEAD AN UPPER/MID MID-LATITUDES TROUGH. FROM SUNDAY, AFTER ITS WEAKENING, WITH A LOWER STEERING FLOW, IT IS EXPECTED TO TRACK SOUTH-WESTWARD ON THE NORTH-WESTERN EDGE OF THE ANTICYCLONE FROM SUNDAY, THEN SOUTHWARD ON MONDAY AS A RIDGE BUILD EASTH OF THE SYSTEM.

THE SPREAD AMONG THE GUIDANCE IS STILL IMPORTANT EVEN AT SHORT RANGE, DUE TO THE EASTWARDS TRACK INDUCING A BAD ANALYSE OF THE MODELES. THIS CURRENT TRACK FORECAST IS BASED ON THE US CONSENSUS GUIDANCE.

THE SYSTEM IS EXPERIENCING A WEAK WESTERN VERTICAL WINDSHEAR. THIS CONSTRAINT IS FORECAST TO PROGRESSIVELY INCREASE BUT REMAINS OFFSET BY AN EXCELLENT UPPER LEVEL POLEWARD DIVERGENCE AND GOOD OCEANIC CONTENT. SO THE INTENSITY IS FORECAST TO WEAKEN SLOWLY THIS NIGHT AND TOMORROW. THE NORTH-WESTERLY SHEAR IS EXPECTED TO INCREASE FROM FRIDAY , AND MORE CLEARLY ON SATURDAY, AND LEAD A STEEPER DECREASE FAVORED BY THE LACK OF OCEANIC POTENTIAL SOUTH OF 25S. FROM SUNDAY, THE SYSTEM SHOULD INTERACT WITH THE UPPER LEVEL TROUGH AND BEGIN A EXTRATROPICALISATION PHASE.