

WTIO30 FMEE 130028

RSMC / TROPICAL CYCLONE CENTER / LA REUNION

TROPICAL CYCLONE FORECAST WARNING (SOUTH-WEST INDIAN OCEAN)

0.A WARNING NUMBER: 32/10/20202021

1.A MODERATE TROPICAL STORM 10 (FARAJI)

2.A POSITION 2021/02/13 AT 0000 UTC:

WITHIN 20 NM RADIUS OF POINT 19.1 S / 80.6 E

(NINETEEN DECIMAL ONE DEGREES SOUTH AND  
EIGHTY DECIMAL SIX DEGREES EAST)

MOVEMENT: SOUTH-WEST 5 KT

3.A DVORAK ANALYSIS: 2.5/3.5/W 0.5/12 H

4.A CENTRAL PRESSURE: 995 HPA

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

RADIUS OF MAXIMUM WINDS (RMW): 46 KM

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

28 KT NE: 130 SE: 370 SW: 280 NW: 95

34 KT NE: 75 SE: 185 SW: 95 NW: 75

48 KT NE: 0 SE: 0 SW: 0 NW: 0

64 KT NE: 0 SE: 0 SW: 0 NW: 0

7.A FIRST CLOSED ISOBAR (PRESSURE / AVERAGE DIAM): 1008 HPA / 400 KM

8.A VERTICAL EXTENSION OF CYCLONE CIRCULATION: SHALLOW

1.B FORECASTS (WINDS RADII IN KM):

12H: 2021/02/13 12 UTC: 19.7 S / 79.3 E, VENT MAX= 035 KT, MODERATE TROPICAL  
STORM

28 KT NE: 85 SE: 205 SW: 185 NW: 75

34 KT NE: 65 SE: 120 SW: 85 NW: 65

24H: 2021/02/14 00 UTC: 19.8 S / 77.7 E, VENT MAX= 030 KT, FILLING UP

28 KT NE: 65 SE: 175 SW: 120 NW: 55

36H: 2021/02/14 12 UTC: 19.5 S / 75.7 E, VENT MAX= 025 KT, REMNANT LOW

48H: 2021/02/15 00 UTC: 19.2 S / 73.3 E, VENT MAX= 025 KT, REMNANT LOW

60H: 2021/02/15 12 UTC: 18.8 S / 70.8 E, VENT MAX= 025 KT, REMNANT LOW

72H: 2021/02/16 00 UTC: 18.4 S / 68.0 E, VENT MAX= 025 KT, REMNANT LOW

2.B LONGER-RANGE OUTLOOK:

NIL

2.C ADDITIONAL INFORMATION:

T=2.5+ CI=3.5-

OVER THE LAST SIX HOURS, FARAJI CLOUD PATTERN DID NOT EVOLVE A LOT. IT NOW DISPLAYS A MORE CLASSICAL SHEAR PATTERN WITH THE CENTER CLOSE TO THE BORDER OF THE CDO. THIS IS CONFIRMED BY 2011Z AMSR2 SWATH. INTENSITY IS DOWNGRADED TO 45KT IN RATHER GOOD AGREEMENT WITH OBJECTIVE AND SUBJECTIVE INTENSITY ESTIMATES.

WITH THE WEAKENING OF THE SYSTEM, THE STEERING FLOW LOWERED INTO THE LOW LAYERS AND THE SUBTROPICAL RIDGE TO THE SOUTH IS CURRENTLY REGAINING CONTROL OF THE TRACK INDUCING A PROGRESSIVE WESTERLY ORIENTATION. ON SUNDAY, A WEST-NORTHWESTWARD TRACK OF THE SYSTEM IS EXPECTED AS THE RIDGE STRENGTHENS TO THE SOUTHWEST OF THE SYSTEM. THE CURRENT FORECAST IS BASED ON A CONSENSUS OF THE MAIN NUMERICAL MODELS, WHOSE DISPERSION IS LOWER.

FARAJI KEEPS UNDERGOING A DEEP NORTHWESTERN SHEAR ASSOCIATED WITH AN INTRUSION OF DRY AIR, WHICH IS WEAKENING ITS STRUCTURE. THE DRY AIR REMAINS WELL PRESENT OVER THE PERIOD, SUGGESTING A FORECAST OF SWIFT WEAKENING. THE MAIN GUIDANCES GIVE LESS AND LESS CREDIT TO THE HYPOTHESIS OF A REINTENSIFICATION OF FARAJI. ENVIRONMENTAL CONDITIONS ARE NOT CONDUCTIVE WITH NO MONSOON FEEDING AND A WEAK POLAR CONVERGENCE AT LONG RANGE.

THIS SYSTEM DOES NOT PRESENT ANY PARTICULAR RISK FOR THE INHABITED LANDS DURING THE NEXT 5 DAYS.