

WTIO30 FMEE 080641

RSMC / TROPICAL CYCLONE CENTER / LA REUNION

TROPICAL CYCLONE FORECAST WARNING (SOUTH-WEST INDIAN OCEAN)

0.A WARNING NUMBER: 13/10/20202021

1.A INTENSE TROPICAL CYCLONE 10 (FARAJI)

2.A POSITION 2021/02/08 AT 0600 UTC:

WITHIN 20 NM RADIUS OF POINT 14.3 S / 81.3 E

(FOURTEEN DECIMAL THREE DEGREES SOUTH AND  
EIGHTY ONE DECIMAL THREE DEGREES EAST)

MOVEMENT: EAST-NORTH-EAST 7 KT

3.A DVORAK ANALYSIS: 6.0/6.0/S 0.0/6 H

4.A CENTRAL PRESSURE: 940 HPA

5.A MAX AVERAGE WIND SPEED (10 MN): 105 KT

RADIUS OF MAXIMUM WINDS (RMW): 33 KM

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

28 KT NE: 165 SE: 280 SW: 280 NW: 220

34 KT NE: 110 SE: 185 SW: 110 NW: 185

48 KT NE: 95 SE: 130 SW: 90 NW: 130

64 KT NE: 75 SE: 95 SW: 75 NW: 95

7.A FIRST CLOSED ISOBAR (PRESSURE / AVERAGE DIAM): 1006 HPA / 600 KM

8.A VERTICAL EXTENSION OF CYCLONE CIRCULATION: DEEP

1.B FORECASTS (WINDS RADII IN KM):

12H: 2021/02/08 18 UTC: 14.4 S / 82.4 E, VENT MAX= 110 KT, INTENSE TROPICAL  
CYCLONE

28 KT NE: 175 SE: 250 SW: 260 NW: 165

34 KT NE: 140 SE: 140 SW: 130 NW: 130

48 KT NE: 85 SE: 75 SW: 85 NW: 75

64 KT NE: 55 SE: 65 SW: 75 NW: 55

24H: 2021/02/09 06 UTC: 14.5 S / 83.8 E, VENT MAX= 100 KT, INTENSE TROPICAL  
CYCLONE

28 KT NE: 185 SE: 280 SW: 250 NW: 175

34 KT NE: 150 SE: 155 SW: 130 NW: 120

48 KT NE: 85 SE: 75 SW: 85 NW: 85

64 KT NE: 55 SE: 65 SW: 75 NW: 55

36H: 2021/02/09 18 UTC: 15.0 S / 85.1 E, VENT MAX= 095 KT, INTENSE TROPICAL  
CYCLONE

28 KT NE: 155 SE: 280 SW: 285 NW: 175

34 KT NE: 130 SE: 155 SW: 150 NW: 130

48 KT NE: 85 SE: 75 SW: 75 NW: 75  
64 KT NE: 55 SE: 65 SW: 65 NW: 55

48H: 2021/02/10 06 UTC: 15.5 S / 85.9 E, VENT MAX= 090 KT, INTENSE TROPICAL CYCLONE

28 KT NE: 165 SE: 305 SW: 260 NW: 150  
34 KT NE: 140 SE: 175 SW: 140 NW: 110  
48 KT NE: 85 SE: 75 SW: 75 NW: 75  
64 KT NE: 55 SE: 65 SW: 65 NW: 55

60H: 2021/02/10 18 UTC: 16.1 S / 86.4 E, VENT MAX= 075 KT, TROPICAL CYCLONE

28 KT NE: 155 SE: 295 SW: 260 NW: 130  
34 KT NE: 130 SE: 175 SW: 140 NW: 100  
48 KT NE: 85 SE: 75 SW: 75 NW: 75  
64 KT NE: 55 SE: 65 SW: 55 NW: 55

72H: 2021/02/11 06 UTC: 16.5 S / 86.3 E, VENT MAX= 070 KT, TROPICAL CYCLONE

28 KT NE: 130 SE: 285 SW: 260 NW: 130  
34 KT NE: 120 SE: 165 SW: 130 NW: 100  
48 KT NE: 85 SE: 75 SW: 75 NW: 65  
64 KT NE: 55 SE: 65 SW: 55 NW: 55

#### 2.B LONGER-RANGE OUTLOOK:

96H: 2021/02/12 06 UTC: 17.3 S / 85.3 E, VENT MAX= 055 KT, SEVERE TROPICAL STORM

28 KT NE: 140 SE: 280 SW: 260 NW: 175  
34 KT NE: 130 SE: 205 SW: 155 NW: 100  
48 KT NE: 75 SE: 85 SW: 85 NW: 65

120H: 2021/02/13 06 UTC: 17.7 S / 83.4 E, VENT MAX= 040 KT, MODERATE TROPICAL STORM

28 KT NE: 120 SE: 205 SW: 205 NW: 155  
34 KT NE: 110 SE: 175 SW: 140 NW: 85

#### 2.C ADDITIONAL INFORMATION:

T=CI=6.0+

OVER THE LAST 6 HOURS, FARAJI HAS BEEN INTENSIFYING AGAIN, WITH A SIGNIFICANT COOLING OF THE CONVECTIVE RING. OBJECTIVE AND SUBJECTIVE INTENSITY ANALYSES ALSO SHOW THIS INTENSIFICATION. GIVEN THESE ELEMENTS, THE INTENSITY OF THE SYSTEM HAS BEEN RAISED TO 105KT. THE GPM SWATH OF 0229Z SHOW A WELL DEFINED INNER STRUCTURE, WITH A STRONG INNER CONVECTIVE RING.

FARAJI IS TRACKING EASTWARD, UNDER THE INFLUENCE OF THE EQUATORIAL RIDGE. BY MID-WEEK, WITH THE WEAKENING OF THE SYSTEM AND THE STEERING FLOW GOES DOWN TO A LOWER LEVEL. THE SYSTEM SHOULD GRADUALLY BE INFLUENCED BY THE SUBTROPICAL LOW-LEVEL RIDGE TO THE SOUTH, AND THUS TRACK IN A GENERAL WESTERLY DIRECTION.

DUE TO THE CLOSE LINK BETWEEN THE WEAKENING PACE AND THE TRACK, THE FORECAST IS PARTICULARLY UNCERTAIN. THIS RESULTS IN A STRONG DISPERSION WITHIN THE NUMERICAL MODELS. CURRENT TRACK FORECAST IS BASED ON A CONSENSUS OF THE MAIN DETERMINISTIC AND ENSEMBLE NUMERICAL MODELS.

FARADJI REMAINS UNDER THE AXIS OF THE UPPER RIDGE. THE MID-LEVEL SHEAR, SHOULD STRENGTHEN FROM TONIGHT AND START TO WEAKEN THE CYCLONE. BY MID-WEEK, THE MID-LEVEL SHEAR WILL INJECT DRY AIR, WHICH SHOULD STOP THE INTENSIFICATION, DESPITE THE PERSISTENCE OF A STRONG ENERGY POTENTIAL AND AN UPPER DIVERGENCE. THE AVAILABLE NUMERICAL GUIDANCE IS IN GOOD AGREEMENT ON THIS CHRONOLOGY.

THIS SYSTEM DOES NOT PRESENT ANY PARTICULAR RISK FOR INHABITED LANDS.