

WTIO30 FMEE 180059

RSMC / TROPICAL CYCLONE CENTER / LA REUNION

TROPICAL CYCLONE FORECAST WARNING (SOUTH-WEST INDIAN OCEAN)

0.A WARNING NUMBER: 4/6/20212022

1.A MODERATE TROPICAL STORM 6 (FEZILE)

2.A POSITION 2022/02/18 AT 0000 UTC:

WITHIN 40 NM RADIUS OF POINT 24.0 S / 87.5 E

(TWENTY FOUR DECIMAL ZERO DEGREES SOUTH AND  
EIGHTY SEVEN DECIMAL FIVE DEGREES EAST)

MOVEMENT: SOUTH-SOUTH-WEST 15 KT

3.A DVORAK ANALYSIS: 2.0/2.0/D 0.5/6 H

4.A CENTRAL PRESSURE: 981 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: 520 SE: 650 SW: 370 NW: 185

34 KT NE: 295 SE: 350 SW: 185 NW: 0

7.A FIRST CLOSED ISOBAR (PRESSURE / AVERAGE DIAM): 1002 HPA / 1300 KM

8.A VERTICAL EXTENSION OF CYCLONE CIRCULATION: DEEP

1.B FORECASTS (WINDS RADII IN KM):

12H: 2022/02/18 12 UTC: 27.3 S / 86.9 E, VENT MAX= 045 KT, MODERATE TROPICAL  
STORM

28 KT NE: 510 SE: 530 SW: 335 NW: 240

34 KT NE: 280 SE: 315 SW: 215 NW: 185

24H: 2022/02/19 00 UTC: 31.3 S / 86.9 E, VENT MAX= 050 KT, POST-TROPICAL  
DEPRESSION

28 KT NE: 575 SE: 705 SW: 345 NW: 280

34 KT NE: 295 SE: 435 SW: 230 NW: 220

48 KT NE: 130 SE: 100 SW: 95 NW: 150

36H: 2022/02/19 12 UTC: 34.8 S / 87.5 E, VENT MAX= 050 KT, POST-TROPICAL  
DEPRESSION

28 KT NE: 535 SE: 620 SW: 445 NW: 360

34 KT NE: 270 SE: 400 SW: 305 NW: 260

48 KT NE: 140 SE: 110 SW: 110 NW: 95

48H: 2022/02/20 00 UTC: 37.6 S / 89.6 E, VENT MAX= 045 KT, POST-TROPICAL  
DEPRESSION

28 KT NE: 575 SE: 465 SW: 400 NW: 345

34 KT NE: 280 SE: 325 SW: 230 NW: 220

60H: 2022/02/20 12 UTC: 39.9 S / 95.1 E, VENT MAX= 040 KT, EXTRATROPICAL DEPRESSION

28 KT NE: 565 SE: 360 SW: 345 NW: 270

34 KT NE: 270 SE: 270 SW: 205 NW: 175

## 2.B LONGER-RANGE OUTLOOK:

NIL

## 2.C ADDITIONAL INFORMATION:

T=CI=2.0

DURING THE LAST 12 HOURS, SYSTEM 06'S CLOUD PATTERN HAS EVOLVED FROM A MONSOON DEPRESSION STRUCTURE TO A MORE ORGANIZED STRUCTURE CLOSER TO A CLASSICAL TROPICAL SYSTEM. SATELLITE IMAGERY DEPICTS A LARGE CURVED BAND WITH MARKED CONVECTION IN THE EAST/SOUTHEAST SEMICIRCLE. 1515Z AND 1602Z ASCAT PASSES SHOW GALE FORCE WINDS IN THE WHOLE OF THE EASTERN AND SOUTHERN SECTORS OF THE CIRCULATION WITH LOCAL PEAKS AT 40 KT. A 1203Z SMAP PASS INDICATES WINDS OF 40 TO LOCALLY 45 KT IN THE SOUTHEAST OF THE CIRCULATION. FINALLY, A PRESSURE OF 982.5 HPA WAS MEASURED BY BUOY 5601666 (24.3S/88.0E) SUGGESTING INTENSIFICATION. FOR THESE REASONS, MAURITIUS METEOROLOGICAL SERVICE NAMED THIS SYSTEM FEZILE AT 2330Z, WHICH BECOMES THE SIXTH NAMED STORM OF THE SEASON OVER THE SOUTHWEST INDIAN OCEAN.

NO CHANGE IN THE TRACK FORECAST : FEZILE IS MOVING ON THE WESTERN EDGE OF A SUBTROPICAL RIDGE AND AHEAD OF A MID-LATITUDE TROUGH APPROACHING FROM THE WEST. THE SYSTEM SHOULD QUICKLY TRACK SOUTHWARD DURING THE NEXT 3 DAYS, GRADUALLY ABSORBED BY THE MID-LATITUDES CIRCULATION.

FEZILE HAS TAKEN ADVANTAGE OF A NARROW WINDOW OF INTENSIFICATION TO BECOME A TROPICAL STORM. BUT FROM THIS FRIDAY, ENVIRONMENTAL CONDITIONS ARE DETERIORATING AS THE SYSTEM PASSES 30S (COLDER SST, INCREASING WIND SHEAR), LEADING TO GRADUAL EXTRA-TROPICAL TRANSITION.

THIS SYSTEM WILL STAY FAR FROM ANY INHABITED LANDS.