

WTIO30 FMEE 251215

RSMC / TROPICAL CYCLONE CENTER / LA REUNION

TROPICAL CYCLONE FORECAST WARNING (SOUTH-WEST INDIAN OCEAN)

0.A WARNING NUMBER: 45/7/20222023

1.A OVERLAND DEPRESSION 7 (FREDDY)

2.A POSITION 2023/02/25 AT 1200 UTC:

WITHIN 20 NM RADIUS OF POINT 22.8 S / 32.9 E

(TWENTY TWO DECIMAL EIGHT DEGREES SOUTH AND
THIRTY TWO DECIMAL NINE DEGREES EAST)

MOVEMENT: WEST-SOUTH-WEST 6 KT

3.A DVORAK ANALYSIS: NIL

4.A CENTRAL PRESSURE: 998 HPA

5.A MAX AVERAGE WIND SPEED (10 MN): 25 KT

RADIUS OF MAXIMUM WINDS (RMW): NIL

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

NIL

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

8.A VERTICAL EXTENSION OF CYCLONE CIRCULATION: MEDIUM

1.B FORECASTS (WINDS RADII IN KM):

12H: 2023/02/26 00 UTC: 22.2 S / 33.0 E, VENT MAX= 025 KT, OVERLAND DEPRESSION

24H: 2023/02/26 12 UTC: 21.3 S / 33.0 E, VENT MAX= 025 KT, OVERLAND DEPRESSION

36H: 2023/02/27 00 UTC: 20.8 S / 32.6 E, VENT MAX= 020 KT, OVERLAND DEPRESSION

48H: 2023/02/27 12 UTC: 20.5 S / 31.7 E, VENT MAX= 020 KT, OVERLAND DEPRESSION

60H: 2023/02/28 00 UTC: 20.2 S / 31.4 E, VENT MAX= 020 KT, DISSIPATING

72H: 2023/02/28 12 UTC: 19.8 S / 31.7 E, VENT MAX= 015 KT, DISSIPATING

2.B LONGER-RANGE OUTLOOK:

NIL

2.C ADDITIONAL INFORMATION:

FREDDY IS CONTINUING TO TRACK NORTH NORTH-WEST INLAND OVER MOZAMBIQUE. CONVECTIVE ACTIVITY IS MAINLY LOCATED IN THE WILD SOUTHERN SEMICIRCLE OF THE SYSTEM WITH HEAVY PRECIPITATION. SQUALLS ARE STILL EXPECTED BUT WINDS ARE NOW AROUND 25KT NEAR THE CENTER. THE LOCATION OF THE CENTER HAS IMPROVED WITH THE RETURN OF DAYLIGHT,

CONFIRMED BY THE GCOM DATA OF 1120UTC.

NO CHANGE, FREDDY SHOULD CONTINUE WESTWARD, GUIDED BY THE PRESENCE OF A RIDGE OF HIGH PRESSURE TO THE SOUTH, UNTIL THE BEGINNING OF THE WEEKEND. THEN UNDER THE EFFECT OF THE PASSAGE OF A UPPER TROUGH IN THE SOUTH-WEST THEN OF THE REINFORCEMENT OF HIGH GEOPOTENTIALS IN THE SOUTH-WEST, FREDDY SHOULD CURVE ITS MOVEMENT TO THE NORTH-NORTH-WEST UNTIL MONDAY, BY GOING INTO THE AFRICAN LANDS WHILE FILLING UP DURABLY.

THE VORTEX SHOULD FILL PROGRESSIVELY DURING THE WEEKEND TO DISSIPATE AT THE BEGINNING OF NEXT WEEK OVER THE LAND OF ZIMBABWE. THIS BULLETIN IS THE LAST ONE ON THIS SYSTEM, WHICH WILL BE FOLLOWED IN THE AWIO20 FMEE BULLETIN.

IN THE SECOND PART OF THE WEEK, THE RETURN OF A LARGE LOW-PRESSURE CIRCULATION OVER THE SEA, ASSOCIATED WITH A NEW MINIMUM OR THE REMAINS OF FREDDY BECOMES POSSIBLE. IN A TEMPORARILY MORE FAVORABLE CONTEXT IN FRONT OF AN UPPER TROUGH (WEAK SHEAR AND GOOD POLAR AND EQUATORIAL DIVERGENCE) THIS MINIMUM COULD DEVELOP.

IMPACTS ON INHABITED LANDS OVER THE NEXT 72 HOURS:

- MOZAMBIQUE :

* DURING THE NEXT 72 HOURS, INTENSE RAINS BETWEEN BEIRA AND INHAMBANE, REACHING THE INTERIOR (PROVINCES OF GAZA / SOUTH OF MANICA / SOUTH OF SOFALA) WITH ACCUMULATIONS EXCEEDING 200-300 MM. THESE VALUES MAY LOCALLY REACH 300-400 MM, ON THE BORDER BETWEEN ZIMBABWE AND MOZAMBIQUE. SIGNIFICANT RISK OF FLOODS AND LANDSLIDES.

- ZIMBABWE:

* INTENSE RAINS IN THE SOUTHEAST OF THE COUNTRY, WITH ACCUMULATIONS EXCEEDING 200 MM, POSSIBLY EXCEED 300 MM LOCALLY, AT THE BORDER WITH MOZAMBIQUE.