

WTIO30 FMEE 230047

RSMC / TROPICAL CYCLONE CENTER / LA REUNION

TROPICAL CYCLONE FORECAST WARNING (SOUTH-WEST INDIAN OCEAN)

0.A WARNING NUMBER: 30/7/20202021

1.A TROPICAL CYCLONE 7 (ELOISE)

2.A POSITION 2021/01/23 AT 0000 UTC:

WITHIN 20 NM RADIUS OF POINT 20.1 S / 35.0 E
(TWENTY DECIMAL ONE DEGREES SOUTH AND
THIRTY FIVE DECIMAL ZERO DEGREES EAST)

MOVEMENT: WEST-SOUTH-WEST 12 KT

3.A DVORAK ANALYSIS: 5.0/5.0/D 1.5/24 H

4.A CENTRAL PRESSURE: 967 HPA

5.A MAX AVERAGE WIND SPEED (10 MN): 80 KT
RADIUS OF MAXIMUM WINDS (RMW): 30 KM

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

28 KT NE: 280 SE: 335 SW: 165 NW: 95

34 KT NE: 205 SE: 240 SW: 110 NW: 75

48 KT NE: 85 SE: 100 SW: 60 NW: 55

64 KT NE: 45 SE: 65 SW: 45 NW: 35

7.A FIRST CLOSED ISOBAR (PRESSURE / AVERAGE DIAM): 1010 HPA / 900 KM

8.A VERTICAL EXTENSION OF CYCLONE CIRCULATION: DEEP

1.B FORECASTS (WINDS RADII IN KM):

12H: 2021/01/23 12 UTC: 20.8 S / 33.2 E, VENT MAX= 035 KT, OVERLAND DEPRESSION

28 KT NE: 150 SE: 155 SW: 75 NW: 75

34 KT NE: 205 SE: 205 SW: 0 NW: 0

24H: 2021/01/24 00 UTC: 21.6 S / 31.7 E, VENT MAX= 020 KT, OVERLAND DEPRESSION

36H: 2021/01/24 12 UTC: 22.4 S / 30.5 E, VENT MAX= 020 KT, OVERLAND DEPRESSION

48H: 2021/01/25 00 UTC: 23.0 S / 28.9 E, VENT MAX= 020 KT, OVERLAND DEPRESSION

60H: 2021/01/25 12 UTC: 23.3 S / 27.0 E, VENT MAX= 015 KT, OVERLAND DEPRESSION

72H: 2021/01/26 00 UTC: 23.5 S / 25.1 E, VENT MAX= 015 KT, OVERLAND DEPRESSION

2.B LONGER-RANGE OUTLOOK:

NIL

2.C ADDITIONAL INFORMATION:

T=CI=5.0

ELOISE HAS INTENSIFIED IN THE FINAL APPROACH TO LAND WITH AN EYE CONFIGURATION THAT HAS SIGNIFICANTLY IMPROVED SINCE 18Z. THE AVERAGE DT OVER 3H HAS RISEN TO 5.0 AND OBJECTIVE ESTIMATES ARE IN GOOD AGREEMENT WITH AN ESTIMATE OF 80 KT. THE BEIRA STATION REPORTED A MINIMUM PRESSURE AT 974 HPA AT 23Z AND STORM CONDITIONS AT 00Z.

THE SYSTEM IS EXPECTED TO CONTINUE ON A WEST-SOUTHWEST TRACK MOVING ON THE NORTHWESTERN EDGE OF THE SUBTROPICAL RIDGE LOCATED SOUTHEAST OF MADAGASCAR. FROM MONDAY, THE REMNANTS OF ELOISE SHOULD DRIFT WESTWARD, UNDER THE ACTION OF A NEW RIDGE ARRIVING FROM THE WEST.

ELOISE WILL NOW GRADUALLY WEAKEN ON LAND. CONVECTIVE ACTIVITY IS EXPECTED TO CONTINUE FOR SEVERAL MORE HOURS NEAR THE CENTER BEFORE COLLAPSING IN THE AFTERNOON OR EVENING IN FAVOR OF MORE SPORADIC RAINSTORM ACTIVITY FARTHER AWAY FROM THE RESIDUAL CENTER.

IN TERMS OF IMPACTS, ELOISE IS ABOUT TO SIGNIFICANTLY IMPACT THE SOUTHERN PART OF THE BEIRA REGION AND WILL AFFECT MAINLY BY A RISK OF HEAVY RAINS SEVERAL SOUTHERN AFRICAN COUNTRIES DURING THE NEXT 3 DAYS:

- VERY DESTRUCTIVE WINDS THAT CAN EXCEED 200 KM/H IN GUSTS ARE CURRENTLY AFFECTING THE REGIONS LOCATED IN THE SOUTHERN AND SOUTHEASTERN PORTION OF THE EYEWALL AND WILL DO SO IN THE COMING HOURS. DURING THE DAY, WINDS GUSTING TO 100/120 KM/H WILL REACH THE REGIONS IN THE LANDS LOCATED NEAR THE SOUTH OF THE TRACK. ON SUNDAY AND MONDAY, STRONG WIND GUSTS OF UP TO 90-100 KM/H MAY ACCOMPANY THE RAINSTORM EPISODES DEVELOPING SOUTH OF THE LOW PRESSURE CIRCULATION, THUS MAINLY AFFECTING NORTHERN SOUTH AFRICA.
- DURING THE NEXT 24 HOURS, ADDITIONAL RAIN ACCUMULATIONS IN THE ORDER OF 100 TO 150 MM IS EXPECTED AT THE LEVEL OF THE IMPACT ZONE. THE HEAVY RAINS ASSOCIATED WITH ELOISE WILL ALSO REACH THE INTERIOR OF THE COUNTRY: RAIN ACCUMULATIONS OF 100 TO 150 MM IN 24 HOURS ARE POSSIBLE ALONG THE TRACK AS WELL AS ON THE RELIEF OF THE BORDER ZONE BETWEEN MOZAMBIQUE AND ZIMBABWE. ON SUNDAY AND MONDAY, THE ELOISE RAINS WILL AFFECT SOUTHERN ZIMBABWE, NORTHERN SOUTH AFRICA AND EASTERN BOTSWANA, WITH CUMULATIVE RAINFALL OF AROUND 50 MM/24H LOCALLY 100 MM. MEANWHILE, RAINS OF THE SAME MAGNITUDE WILL ALSO SPREAD SOUTHWARDS OVER SOUTHERN MOZAMBIQUE AND SWAZILAND.
- AS THE WINDS SHIFT, THE RISK OF STORM SURGE DECREASES FOR BEIRA. ON THE OTHER HAND IN THE BAY OF SOFALA THIS STORM SURGE COULD BE 3 TO 4M IN THE NEXT FEW HOURS.

THE INHABITANTS OF MOZAMBIQUE AND OF THE COUNTRIES CONCERNED BY THE RISK OF HEAVY RAINS IN THE FOLLOWING DAYS ARE INVITED TO FOLLOW THE INSTRUCTIONS OF THE LOCAL AUTHORITIES.