

WTIO30 FMEE 241235

RSMC / TROPICAL CYCLONE CENTER / LA REUNION

TROPICAL CYCLONE FORECAST WARNING (SOUTH-WEST INDIAN OCEAN)

0.A WARNING NUMBER: 8/14/20182019

1.A TROPICAL CYCLONE 14 (KENNETH)

2.A POSITION 2019/04/24 AT 1200 UTC:

WITHIN 20 NM RADIUS OF POINT 11.3 S / 44.4 E
(ELEVEN DECIMAL THREE DEGREES SOUTH AND
FORTY FOUR DECIMAL FOUR DEGREES EAST)

MOVEMENT: WEST-SOUTH-WEST 11 KT

3.A DVORAK ANALYSIS: 4.5/4.5/D 0.5/6 H

4.A CENTRAL PRESSURE: 978 HPA

5.A MAX AVERAGE WIND SPEED (10 MN): 70 KT

RADIUS OF MAXIMUM WINDS (RMW): 19 KM

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

28 KT NE: 110 SE: 170 SW: 190 NW: 170

34 KT NE: 90 SE: 110 SW: 130 NW: 110

48 KT NE: 60 SE: 70 SW: 70 NW: 60

64 KT NE: 30 SE: 30 SW: 30 NW: 30

7.A FIRST CLOSED ISOBAR (PRESSURE / AVERAGE DIAM): 1008 HPA / 700 KM

8.A VERTICAL EXTENSION OF CYCLONE CIRCULATION: DEEP

1.B FORECASTS:

12H: 2019/04/25 00 UTC: 11.7 S / 42.4 E, VENT MAX= 080 KT, TROPICAL CYCLONE

24H: 2019/04/25 12 UTC: 12.0 S / 40.5 E, VENT MAX= 090 KT, INTENSE TROPICAL
CYCLONE

36H: 2019/04/26 00 UTC: 12.1 S / 39.6 E, VENT MAX= 060 KT, OVERLAND DEPRESSION

48H: 2019/04/26 12 UTC: 12.4 S / 39.1 E, VENT MAX= 040 KT, OVERLAND DEPRESSION

60H: 2019/04/27 00 UTC: 12.6 S / 39.2 E, VENT MAX= 025 KT, OVERLAND DEPRESSION

72H: 2019/04/27 12 UTC: 11.9 S / 39.4 E, VENT MAX= 025 KT, OVERLAND DEPRESSION

2.B LONGER-RANGE OUTLOOK:

NIL

2.C ADDITIONAL INFORMATION:

T=CI=4.5

THE 0550UTC MICROWAVE DATA SHOWED A SLIGHT WEST-SOUTHWEST COMPONENT
IN THE TRACK. OVER THE LAST SIX HOURS, THE CLOUD PATTERN HAS EVOLVED
FROM A CDO TO AN EYE PATTERN. ON THE LAST INFRARED IMAGES, THE EYE

PATTERN MIGRATE BACK TO CDO. THE LAST DVORAK ANALYSIS OF THE RSMC CORROBORATES THE DIFFERENT AUTOMATIC ESTIMATES GIVING A WIND ESTIMATE OF ABOUT 70KTS. KENNETH HAS BEEN A TROPICAL CYCLONE SINCE 09UTC.

LITTLE CHANGE IN THE FORECAST, KENNETH MAINTAINS A QUICK MOVE ON A GENERAL WESTWARDS MOTION ON THE NORTHERN EDGE OF A BUILDING LOW TO MID LEVELS HIGHS. HOWEVER, THE SLIGHT WEST-SOUTHWEST COMPONENT TAKEN RECENTLY INDUCES A TRACK THAT WILL DIRECTLY IMPACT THE NORTHERNMOST ISLANDS OF THE COMOROS ARCHIPELAGO DURING THE COMING NIGHT. ON THE CURRENT TRACK, A LANDFALL ON THE NORTH MOZAMBIKAN COAST IS EXPECTED THURSDAY DURING AFTERNOON (MOZAMBIQUE'S TIME). THEN, THE ARRIVAL OF A DEEP UPPER TROUGH IN THE SOUTH-WEST MAY DRIVE THE REMNANT LOW TO TRANSIT NORTHERN MOZAMBIQUE BEFORE RETURNING OVER SEA BY NEXT MONDAY, BUT THIS SCENARIO IS STILL UNLIKELY.

THE EASTERN VERTICAL WINDSHEAR WEAKENING, KENNETH'S INTENSIFICATION IS PLANNED TO BE CONTINUOUS UNTIL LANDING. MOST OF THE GUIDANCE SUGGEST THAT THE TROPICAL CYCLONE STATUS WILL BE REACHED BEFORE LANDFALL, BUT THIS RSMC FORECAST PROPOSES AN INTENSITY REACHING THE THRESHOLD OF INTENSE TROPICAL CYCLONE AT THE TIME OF LANDING.

KENNETH IS THEREFORE A DANGEROUS SYSTEM. THE DIRECT IMPACT EXPECTED FOR THE NORTHERNMOST ISLANDS OF THE COMOROS ARCHIPELAGO AND THE LANDING IN THE QUISANGA AREA ON MOZAMBIQUE COAST, INVITES THE INHABITANTS OF THESE SECTORS ARE INVITED TO CLOSELY FOLLOW THE EVOLUTION OF THIS SYSTEM. THE SYSTEM WILL ALSO GENERATE AN STORM SURGE WHEN LANDING ON THE COAST OF MOZAMBIQUE, WHICH CAN REACH BETWEEN 2 AND 4M IN SOME AREAS, TO WHICH MUST BE ADDED THE BREAKING OF WAVES AND THE PHENOMENON OF HEAVY RAINFALL, WHICH CAN CAUSE FLOODING IN MOZAMBIQUE.