

WTIO30 FMEE 121903

RSMC / TROPICAL CYCLONE CENTER / LA REUNION

TROPICAL CYCLONE FORECAST WARNING (SOUTH-WEST INDIAN OCEAN)

0.A WARNING NUMBER: 2/11/20212022

1.A SUBTROPICAL DEPRESSION 11 (ISSA)

2.A POSITION 2022/04/12 AT 1800 UTC:

WITHIN 20 NM RADIUS OF POINT 31.3 S / 31.1 E

(THIRTY ONE DECIMAL THREE DEGREES SOUTH AND
THIRTY ONE DECIMAL ONE DEGREES EAST)

MOVEMENT: SOUTH-WEST 7 KT

3.A DVORAK ANALYSIS: NIL

4.A CENTRAL PRESSURE: 994 HPA

5.A MAX AVERAGE WIND SPEED (10 MN): 50 KT

RADIUS OF MAXIMUM WINDS (RMW): 33 KM

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

28 KT NE: 110 SE: 370 SW: 260 NW: 110

34 KT NE: 75 SE: 185 SW: 130 NW: 75

48 KT NE: 35 SE: 0 SW: 0 NW: 35

7.A FIRST CLOSED ISOBAR (PRESSURE / AVERAGE DIAM): 1009 HPA / 300 KM

8.A VERTICAL EXTENSION OF CYCLONE CIRCULATION: MEDIUM

1.B FORECASTS (WINDS RADII IN KM):

12H: 2022/04/13 06 UTC: 31.8 S / 31.1 E, VENT MAX= 045 KT, SUBTROPICAL DEPRESSION

28 KT NE: 155 SE: 360 SW: 260 NW: 130

34 KT NE: 120 SE: 195 SW: 165 NW: 95

24H: 2022/04/13 18 UTC: 31.0 S / 32.8 E, VENT MAX= 035 KT, SUBTROPICAL DEPRESSION

28 KT NE: 185 SE: 350 SW: 260 NW: 130

34 KT NE: 140 SE: 205 SW: 175 NW: 95

36H: 2022/04/14 06 UTC: 31.8 S / 35.8 E, VENT MAX= 030 KT, FILLING UP

28 KT NE: 215 SE: 345 SW: 260 NW: 130

48H: 2022/04/14 18 UTC: 34.1 S / 39.0 E, VENT MAX= 025 KT, FILLING UP

2.B LONGER-RANGE OUTLOOK:

NIL

2.C ADDITIONAL INFORMATION:

DURING THE LAST 6 HOURS, SATELLITE IMAGES SHOW A CLEAR IMPROVEMENT OF THE ORGANIZATION OF THE SUBTROPICAL DEPRESSION ISSA. SSMIS MICROWAVE IMAGES FROM 1438Z AND 1632Z SHOW A MORE COMPACT CONVECTION BECOMING MORE SYMMETRICAL AROUND THE CENTER. MOREOVER, AN EYE PATTERN IS APPARENT ON THE INFRARED IMAGES FROM 1700Z. THE INTENSITY ESTIMATE IS THUS REVISED UPWARDS WITH MAXIMUM WINDS OF 50KT.

THE FORWARD MOTION OF ISSA IS DECREASING BECAUSE THE SYSTEM IS UNDER A HIGH TO MID LEVELS TROUGH. THEN QUICKLY IT WILL BE LOCATED OVER THE WESTERN SIDE OF THE TROUGH AND BE STEERED BY A SOUTH-WEST FLOW SO ITS TRACK WILL CHANGE TOWARDS THE NORTH-EAST. BEYOND 24 HOURS, THE SYSTEM WILL BE GRADUALLY EVACUATED TO THE SOUTHEAST AHEAD OF A NEW TROUGH.

THE SYSTEM SHOULD CONTINUE TO BENEFIT FROM GOOD ENVIRONMENTAL CONDITIONS IN THE NEXT FEW HOURS. IN A STILL HUMID AIR MASS, THE SYSTEM BENEFITS FROM A WEAK SHEAR UNDER THE UPPER TROUGH. THEN WITH THE EASTWARD SHIFT OF THE UPPER TROUGH, AN ADVECTION OF DRY AIR AND AN INCREASE IN SHEAR SHOULD QUICKLY DESTRUCT AND WEAKEN ISSA. THE SUBTROPICAL DEPRESSION COULD THEN FILLING UP IN THE NEXT 36 TO 48 HOURS.

IMPACTS ON INHABITED LANDS (SOUTH AFRICA) :

- HEAVY LOCAL RAINS STILL POSSIBLE IN THE NEXT 12 HOURS ON THE SOUTHEAST COAST OF SOUTH AFRICA ALREADY AFFECTED BY HEAVY ACCUMULATIONS BEFORE A PROGRESSIVE IMPROVEMENT.
- GUSTS UP TO 60-80 KM/H ON COASTS, LOCALLY 80-100 KM/H IN NEAR COASTAL AREAS IN THE NEXT HOURS BEFORE DECREASING IN THE NEXT 12-18 HOURS.
- SEA VERY ROUGH OFFSHORE, DECREASING GRADUALLY.