

WTIO30 FMEE 130720

RSMC / TROPICAL CYCLONE CENTER / LA REUNION

TROPICAL CYCLONE FORECAST WARNING (SOUTH-WEST INDIAN OCEAN)

0.A WARNING NUMBER: 4/11/20212022

1.A SUBTROPICAL DEPRESSION 11 (ISSA)

2.A POSITION 2022/04/13 AT 0600 UTC:

WITHIN 30 NM RADIUS OF POINT 31.7 S / 30.3 E

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

MOVEMENT: NORTH 4 KT

3.A DVORAK ANALYSIS: NIL

4.A CENTRAL PRESSURE: 986 HPA

5.A MAX AVERAGE WIND SPEED (10 MN): 45 KT

RADIUS OF MAXIMUM WINDS (RMW): NIL

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: 0 NW: 75

7.A FIRST CLOSED ISOBAR (PRESSURE / AVERAGE DIAM): 1007 HPA / 200 KM

8.A VERTICAL EXTENSION OF CYCLONE CIRCULATION: MEDIUM

1.B FORECASTS (WINDS RADII IN KM):

12H: 2022/04/13 18 UTC: 30.3 S / 32.8 E, VENT MAX= 035 KT, SUBTROPICAL DEPRESSION

28 KT NE: 140 SE: 240 SW: 0 NW: 0

34 KT NE: 65 SE: 0 SW: 0 NW: 0

24H: 2022/04/14 06 UTC: 31.0 S / 35.9 E, VENT MAX= 030 KT, FILLING UP

28 KT NE: 140 SE: 240 SW: 0 NW: 0

36H: 2022/04/14 18 UTC: 34.3 S / 39.4 E, VENT MAX= 025 KT, REMNANT LOW

48H: 2022/04/15 06 UTC: 37.3 S / 42.3 E, VENT MAX= 025 KT, REMNANT LOW

2.B LONGER-RANGE OUTLOOK:

NIL

2.C ADDITIONAL INFORMATION:

T=CI=/
OVER THE LAST 6 HOURS, THE SYSTEM HAS BEGUN A NORTHEASTWARD TURN AND

HAS COME CLOSER THAN 50 KM FROM THE SOUTH-EAST COAST OF SOUTH-AFRICA. THE LOW LEVEL CENTER HAS BEEN COVERED BY CONVECTIVE PUFFS WHICH HAVE RESUMED SINCE 02UTC IN THE EASTERN SEMICIRCLE OF THE SYSTEM. THE COMPARISON OF THE 0158Z AND THE 0352Z SSMIS IMAGES , SHOWS A SLIGHT CONSOLIDATION OF THE CONVECTION WHICH HAS FINISHED SLIDING SOUTH OF THE LLC, SHOWING A SLIGHT CURVATURE. THIS PROBABLY INDICATES A TEMPORARY DECREASE OF THE WSH OBSERVED UNTIL THEN AND A TEMPORARY REVIVAL OF THE CONVECTION DUE TO THE DIURNAL CYCLE. IN THE LACK OF RECENT OBJECTIVE DATA (ASCAT, SMAP AND SMOS), THE INTENSITY ESTIMATE OF THE SYSTEM IS LEFT AT 45KT, SLIGHTLY ABOVE THE CIMSS OBJECTIVE DATA, BUT IN COHERENCE WITH THE OBSERVED EVOLUTION OF THE CLOUD PATTERN OF THE SYSTEM.

THE LLC IS LOCATED AT THE WESTERN EDGE OF THE MID AND UPPER TROPOSPHERE TROUGH AND UNDER THIS INFLUENCE SHOULD CONTINUE UNTIL TOMORROW, A NORTHEASTERLY COURSE. AFTER THAT, THE SYSTEM WILL BE SIGNIFICANTLY WEAKENED AND WILL BE TAKEN BACK AHEAD OF A NEW UPPER TROUGH, TAKING IT IN A SOUTHEASTERLY DIRECTION TOWARDS THE SOUTHERN LATITUDES.

DUE TO ITS POSITION WEST OF THE MID TROPOSPHERE TROUGH, ISSA IS STILL UNDER THE INFLUENCE OF A MODERATE VERTICAL WIND SHEAR, WHICH IS EXPECTED TO GRADUALLY ESTABLISH ITSELF TO THE NORTHWEST WHILE INTENSIFYING IN THE SHORT TERM, BRINGING DRY AIR ABOVE THE LLC, EVENTUALLY WEAKENING THE SYSTEM DURABLY. THE SUBTROPICAL DEPRESSION ISSA SHOULD THEN FILL UP WITHIN THE NEXT 36 TO 48 HOURS.

IMPACTS ON INHABITED LANDS (SOUTH AFRICA) :

- HEAVY RAINS ARE STILL EXPECTED IN THE MORNING ON THE SOUTHEAST COAST OF SOUTH AFRICA (ESPECIALLY KWAZULU-NATAL PROVINCE) ALREADY AFFECTED BY HEAVY RAINFALL (MORE THAN 300 MM IN 24 HOURS). THE IMPROVEMENT ARRIVES GRADUALLY TODAY, WITH THE EVACUATION OF THE SYSTEM TOWARDS THE EAST.
- GUSTS EXPECTED DURING THE DAY BETWEEN 70-80 KM/H ON THE COASTS, LOCALLY 80-100 KM/H MAXIMUM IN THE NEAR COASTAL AREA BEFORE A PROGRESSIVE DECREASE IN THE NEXT 12-18 HOURS.
- VERY ROUGH SEA OFF SHORE, DECREASING GRADUALLY.