

WTIO30 FMEE 031834

RSMC / TROPICAL CYCLONE CENTER / LA REUNION

TROPICAL CYCLONE FORECAST WARNING (SOUTH-WEST INDIAN OCEAN)

0.A WARNING NUMBER: 20/1/20232024

1.A POST-TROPICAL DEPRESSION 1 (ALVARO)

2.A POSITION 2024/01/03 AT 1800 UTC:

WITHIN 30 NM RADIUS OF POINT 25.4 S / 52.9 E

(TWENTY FIVE DECIMAL FOUR DEGREES SOUTH AND
FIFTY TWO DECIMAL NINE DEGREES EAST)

MOVEMENT: SOUTH-EAST 16 KT

3.A DVORAK ANALYSIS: NIL

4.A CENTRAL PRESSURE: 996 HPA

5.A MAX AVERAGE WIND SPEED (10 MN): 35 KT

RADIUS OF MAXIMUM WINDS (RMW): NIL

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

28 KT NE: 220 SE: 280 SW: 240 NW: 195

34 KT NE: 150 SE: 195 SW: 195 NW: 150

7.A FIRST CLOSED ISOBAR (PRESSURE / AVERAGE DIAM): 1006 HPA / 700 KM

8.A VERTICAL EXTENSION OF CYCLONE CIRCULATION: MEDIUM

1.B FORECASTS (WINDS RADII IN KM):

12H: 2024/01/04 06 UTC: 27.7 S / 55.5 E, VENT MAX= 040 KT, POST-TROPICAL
DEPRESSION

28 KT NE: 280 SE: 325 SW: 270 NW: 240

34 KT NE: 205 SE: 240 SW: 230 NW: 0

24H: 2024/01/04 18 UTC: 29.3 S / 58.0 E, VENT MAX= 040 KT, POST-TROPICAL
DEPRESSION

28 KT NE: 280 SE: 530 SW: 295 NW: 260

34 KT NE: 0 SE: 370 SW: 270 NW: 0

36H: 2024/01/05 06 UTC: 30.1 S / 59.8 E, VENT MAX= 035 KT, EXTRATROPICAL
DEPRESSION

28 KT NE: 280 SE: 445 SW: 295 NW: 280

34 KT NE: 0 SE: 335 SW: 270 NW: 0

48H: 2024/01/05 18 UTC: 30.4 S / 61.5 E, VENT MAX= 030 KT, EXTRATROPICAL
DEPRESSION

28 KT NE: 0 SE: 415 SW: 350 NW: 0

60H: 2024/01/06 06 UTC: 30.4 S / 62.6 E, VENT MAX= 030 KT, EXTRATROPICAL
DEPRESSION

28 KT NE: 0 SE: 415 SW: 360 NW: 0

2.B LONGER-RANGE OUTLOOK:
NIL

2.C ADDITIONAL INFORMATION:

OVER THE PAST SIX HOURS, ALVARO HAS CONTINUED TO SUFFER FROM THE EFFECTS OF THE UPPER SHEAR. THE LOW-LEVEL CIRCULATION, LARGELY APPARENT ON CONVENTIONAL SATELLITE IMAGES, APPEARS INCREASINGLY ELONGATED ON THE LATEST MICROWAVE IMAGES (1536Z SSMIS). IN THE LATEST IMAGES, THE DEEP CONVECTION STILL PRESENT IN THE SOUTH-EASTERN QUADRANT APPEARS TO BE COLLAPSING. IN AGREEMENT WITH THE MAIN MODEL ANALYSES, ALVARO HAS BEEN RECLASSIFIED A POST-TROPICAL DEPRESSION 35KT.

IN TERMS OF TRAJECTORY, ALVARO IS STILL BEING STEERED BY THE RIDGE OF UPPER RIDGE STRENGTHENING NORTH OF THE MASCARENE ISLANDS. IT FAVOURS A FAST MOVEMENT SOUTHEASTWARDS AT SHORT RANGE, THEN A SLOWER MOVEMENT EASTWARDS WITH THE ARRIVAL OF CONTRARY FLOWS SOUTH OF THE SYSTEM.

ALVARO HAS BEGUN TO LOSE ITS TROPICAL CHARACTERISTICS UNDER THE INFLUENCE OF THE SUBTROPICAL JET, PRESENT TO ITS WEST AND SOUTH. BY TOMORROW, AS IT INTERACTS WITH THE LATTER, THE SYSTEM COULD SLIGHTLY REINTENSIFY. BY THE END OF THE WEEK, THE CENTER SHOULD GRADUALLY MERGE INTO AN AREA OF LOW PRESSURE.

THE SYSTEM NO LONGER POSES A THREAT TO INHABITED LAND.