

WTIO30 FMEE 220037

RSMC / TROPICAL CYCLONE CENTER / LA REUNION  
TROPICAL CYCLONE FORECAST WARNING (SOUTH-WEST INDIAN OCEAN)

0.A WARNING NUMBER: 24/11/20232024

1.A MODERATE TROPICAL STORM 11 (IALY)

2.A POSITION 2024/05/22 AT 0000 UTC:

WITHIN 20 NM RADIUS OF POINT 3.7 S / 42.0 E  
(THREE DECIMAL SEVEN DEGREES SOUTH AND  
FORTY TWO DECIMAL ZERO DEGREES EAST)  
MOVEMENT: NORTH 5 KT

3.A DVORAK ANALYSIS: 2.5/3.5/W 1.5/6 H

4.A CENTRAL PRESSURE: 995 HPA

5.A MAX AVERAGE WIND SPEED (10 MN): 40 KT  
RADIUS OF MAXIMUM WINDS (RMW): 26 KM

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

28 KT NE: 75 SE: 185 SW: 220 NW: 185  
34 KT NE: 45 SE: 75 SW: 110 NW: 100

7.A FIRST CLOSED ISOBAR (PRESSURE / AVERAGE DIAM): 1010 HPA / 400 KM

8.A VERTICAL EXTENSION OF CYCLONE CIRCULATION: MEDIUM

1.B FORECASTS (WINDS RADII IN KM):

12H: 2024/05/22 12 UTC: 1.9 S / 43.1 E, VENT MAX= 030 KT, REMNANT LOW  
28 KT NE: 0 SE: 95 SW: 150 NW: 110

24H: 2024/05/23 00 UTC: 0.6 S / 44.5 E, VENT MAX= 025 KT, DISSIPATING

2.B LONGER-RANGE OUTLOOK:

NIL

2.C ADDITIONAL INFORMATION:

T=2.5 CI=3.5-

OVER THE PAST 6 HOURS, IALY'S CONFIGURATION HAS WARMED CONSIDERABLY. REMAINING IN A CURVED BAND, THE CLOUD CONFIGURATION IS LOSING CONSISTENCY, LEAVING THE POSSIBILITY OF A DVORAK ANALYSIS FOR A SHORT TIME YET. A T OF 2.5 CAN BE ESTIMATED, WHILE INERTIA KEEPS CI AT 3.5-. THE

SMALL SIZE OF THE SYSTEM CONTINUES TO SUGGEST THAT THE WIND IS STRUGGLING TO MAINTAIN ITSELF THROUGH INERTIA, AND MAXIMUM WINDS OF AROUND 40KT ARE THEREFORE ESTIMATED. MODERATE TROPICAL STORM IALY IS IN ITS FINAL STAGES.

IALY'S TRACK FORECAST REMAINS SHORT-TERM AS IT FASTENED TO DISAPPEAR. UNDER THE INFLUENCE OF A DIRECTING LOW-LEVEL FLOW, THE NORTHERLY TRACK WILL BE MAINTAINED BEFORE BEING CARRIED NORTHEASTWARDS BY THE TRADE WINDS ALONG THE COAST OF AFRICA. IT WILL BE INTERESTING TO SEE IF, OVER THE NEXT 24 HOURS, THE VORTEX WILL BE STRONG ENOUGH TO CROSS THE EQUATOR, WHICH IS UNLIKELY TO BE THE CASE ACCORDING TO CURRENT FORECASTS!

IN TERMS OF INTENSITY, ENVIRONMENTAL CONDITIONS ARE RAPIDLY DETERIORATING. WITH MID-TROPOSPHERE SHEAR AND DRY AIR ARRIVING CLOSE TO THE AFRICAN COAST, THE WEAK IALY STRUCTURE IS UNABLE TO MAINTAIN ITSELF. WITH CONVECTION BECOMING WEAKER AND WEAKER, IALY'S INTENSITY COLLAPSES. THE CONDITIONS ARE RIGHT FOR IT TO DISSIPATE IN THE MORNING OF WEDNESDAY, WITH WINDS OF 30-25KT LIKELY TO LAST A LITTLE LONGER.

EXPECTED IMPACTS OVER INHABITED LANDS :

TANZANIA:

- RAINFALL TOTALS UP TO 100-150 MM IN 24H ON PEMBA ISLAND UNTIL WEDNESDAY NOON.

KENYA :

- POSSIBLE RAINFALL TOTALS OF 50 TO 100MM IN 24H ON THE COAST.  
- WAVES OF 4 TO 5 M OFFSHORE FROM TODAY UNTIL WEDNESDAY MORNING, WEAKENING RAPIDLY.

SOMALIA (EXTREME SOUTH)

- WAVES NEARING 4M WEAKENING RAPIDLY.