

WTIO30 FMEE 191853

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

0.A WARNING NUMBER: 23/7/20172018

1.A MODERATE TROPICAL STORM 7 (ELIAKIM)

2.A POSITION 2018/03/19 AT 1800 UTC:

WITHIN 21 NM RADIUS OF POINT 25.2 S / 51.3 E

(TWENTY FIVE DECIMAL TWO DEGREES SOUTH AND FIFTY ONE DECIMAL THREE DEGREES EAST)

MOVEMENT : SOUTH-SOUTH-EAST 11 KT

3.A DVORAK ANALYSIS: 2.5/2.5/S 0.0/6 H

4.A CENTRAL PRESSURE: 986 HPA

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

RADIUS OF MAXIMUM WINDS (RMW) :93 KM

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

28 KT NE: 370 SE: 520 SW: 370 NW: 280

34 KT NE: 260 SE: 330 SW: 220 NW: 190

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

8.A VERTICAL EXTENSION OF CYCLONE CIRCULATION : DEEP

1.B FORECASTS:

12H: 2018/03/20 06 UTC: 28.1 S / 52.8 E, MAX WIND=045 KT, MODERATE TROPICAL STORM

24H: 2018/03/20 18 UTC: 31.2 S / 53.9 E, MAX WIND=045 KT, POST-TROPICAL DEPRESSION

36H: 2018/03/21 06 UTC: 33.4 S / 54.8 E, MAX WIND=040 KT, POST-TROPICAL DEPRESSION

48H: 2018/03/21 18 UTC: 35.5 S / 56.1 E, MAX WIND=040 KT, POST-TROPICAL DEPRESSION

60H: 2018/03/22 06 UTC: 38.3 S / 58.6 E, MAX WIND=040 KT, EXTRATROPICAL DEPRESSION

72H: 2018/03/22 18 UTC: 41.9 S / 62.2 E, MAX WIND=040 KT, EXTRATROPICAL DEPRESSION

2.B LONGER-RANGE OUTLOOK :

2.C ADDITIONAL INFORMATION:

T=CI=2.5+

DURING THE LAST 6 HOURS, THE CONVECTIVE ACTIVITY ASSOCIATED WITH ELIAKIM INTENSIFIED, MAINLY IN THE SOUTHWEST. THE CENTER REMAINS FAR FROM THIS CONVECTIVE ACTIVITY MORE THAN 0.5 DEGREE, SO ELIAKIM PRESENTS A SHEARED CLOUD PATTERN AND THE DVORAK ANALYSIS CAN NOT EXCEED 2.5 WITH THE MAXIMUM WINDS REACHING 45KT AND A WIDE CIRCULATION.

ASSISTED BY A GOOD AGREEMENT BETWEEN THE DIFFERENT NUMERICAL MODELS, THE RSMC'S TRACK CONTINUES, WITH VERY HIGH CONFIDENCE, SOUTH-SOUTH-EASTWARD ON THE SOUTH-WESTERN EDGE OF A MID-TROPOSPHERE RIDGE. FROM WEDNESDAY ON APPROACH TO 35 SOUTH, ELIAKIM WILL TRACK MORE SOUTHEAST AHEAD OF A UPPER TROUGH WITHIN THE DISTURBED MID LATITUDES FLOW.

THE NORTHWEST WIND-SHEAR IS INCREASING AND PREVENTS FROM ANY SIGNIFICANT DEEPENING ALTHOUGH CONVECTION HAS TAKEN OVER FROM THE SOUTHWEST SECTOR. WITHIN 24 HOURS, THE SYSTEM WILL BEGIN ITS EXTRATROPICALISATION WITH COOLER UNDERNEATH WATERS SOUTH OF 27S AND THE ARRIVAL OF AN UPPER ANOMALY. FROM THURSDAY, THE LOW IS EXPECTED TO PROGRESSIVELY DISAPPEAR WITHIN A BROAD LOW PRESSURE SYSTEM, AND LEAVE OUR AREA OF RESPONSIBILITY.