

WTIO30 FMEE 200016

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

0.A WARNING NUMBER: 24/7/20172018

1.A MODERATE TROPICAL STORM 7 (ELIAKIM)

2.A POSITION 2018/03/20 AT 0000 UTC:

WITHIN 30 NM RADIUS OF POINT 26.5 S / 52.0 E

(TWENTY SIX DECIMAL FIVE DEGREES SOUTH AND FIFTY TWO DECIMAL ZERO DEGREES EAST)

MOVEMENT : SOUTH-SOUTH-EAST 12 KT

3.A DVORAK ANALYSIS: 3.0/3.0/D 0.5/6 H

4.A CENTRAL PRESSURE: 986 HPA

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

RADIUS OF MAXIMUM WINDS (RMW) :111 KM

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

28 KT NE: 370 SE: 560 SW: 430 NW: 330

34 KT NE: 240 SE: 280 SW: 300 NW: 200

7.A FIRST CLOSED ISOBAR (PRESSURE / AVERAGE DIAM): 1007 HPA / 800 KM

8.A VERTICAL EXTENSION OF CYCLONE CIRCULATION : DEEP

1.B FORECASTS:

12H: 2018/03/20 12 UTC: 29.8 S / 53.5 E, MAX WIND=045 KT, MODERATE TROPICAL STORM

24H: 2018/03/21 00 UTC: 32.4 S / 54.3 E, MAX WIND=040 KT, POST-TROPICAL DEPRESSION

36H: 2018/03/21 12 UTC: 34.4 S / 55.3 E, MAX WIND=040 KT, POST-TROPICAL DEPRESSION

48H: 2018/03/22 00 UTC: 36.4 S / 56.9 E, MAX WIND=040 KT, POST-TROPICAL DEPRESSION

60H: 2018/03/22 12 UTC: 40.0 S / 60.2 E, MAX WIND=040 KT, EXTRATROPICAL DEPRESSION

2.B LONGER-RANGE OUTLOOK :

2.C ADDITIONAL INFORMATION:

T=CI=3.0

THE CONVECTIVE ACTIVITY ASSOCIATED WITH ELIAKIM WEAKEN FOR A FEW HOURS BUT IS CLOSER TO THE CENTER. IT REMAINS LOCALLY LOCATED IN THE SOUTHWEST SECTOR. IN THIS SHEARED CLOUD PATTERN, DVORAK ANALYSIS CAN BE NOW ESTIMATED AT 3.0 WITH MAXIMUM WINDS REACHING 45KT.

THERE IS NO CHANGE ON THE FORECAST FOR THE MODERATE TROPICAL STORM ELIAKIM, WITH A GOOD AGREEMENT OF ALL AVAILABLE NUMERICAL MODELS. THE RSMC TRACK CONTINUES 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.

IN TERM OF INTENSITY, THE NORTHWEST WIND-SHEAR IS WELL PRESENT AND PREVENTS A REAL INTENSIFICATION. BY THE END OF THE DAY, THE SYSTEM WILL BEGIN ITS EXTRATROPICAL PHASE BY INTERACTING WITH COLDER UNDERLYING 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.