

WTIO30 FMEE 190635

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

0.A WARNING NUMBER: 21/7/20172018

1.A MODERATE TROPICAL STORM 7 (ELIAKIM)

2.A POSITION 2018/03/19 AT 0600 UTC:

WITHIN 25 NM RADIUS OF POINT 23.4 S / 49.8 E

(TWENTY THREE DECIMAL FOUR DEGREES SOUTH AND FORTY NINE DECIMAL  
EIGHT DEGREES EAST)

MOVEMENT : SOUTH-SOUTH-EAST 11 KT

3.A DVORAK ANALYSIS: 3.0/3.0/S 0.0/6 H

4.A CENTRAL PRESSURE: 991 HPA

5.A MAX AVERAGE WIND SPEED (10 MN): 40 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): 1007 HPA / 1100 KM

8.A VERTICAL EXTENSION OF CYCLONE CIRCULATION : DEEP

1.B FORECASTS:

12H: 2018/03/19 18 UTC: 25.6 S / 50.8 E, MAX WIND=045 KT, MODERATE TROPICAL  
STORM

24H: 2018/03/20 06 UTC: 28.3 S / 52.1 E, MAX WIND=045 KT, MODERATE TROPICAL  
STORM

36H: 2018/03/20 18 UTC: 31.1 S / 53.2 E, MAX WIND=040 KT, POST-TROPICAL  
DEPRESSION

48H: 2018/03/21 06 UTC: 33.8 S / 54.3 E, MAX WIND=040 KT, POST-TROPICAL  
DEPRESSION

60H: 2018/03/21 18 UTC: 35.8 S / 55.8 E, MAX WIND=040 KT, POST-TROPICAL  
DEPRESSION

72H: 2018/03/22 06 UTC: 38.7 S / 58.6 E, MAX WIND=040 KT, EXTRATROPICAL  
DEPRESSION

2.B LONGER-RANGE OUTLOOK :

2.C ADDITIONAL INFORMATION:

T=CI=3.0

DURING THE LAST HOURS, CONVECTIVE ACTIVITY REMAINED CONCENTRATED MAINLY AT THE SOUTH-WEST OF THE CENTER. ELSEWHERE, ESPECIALLY IN THE SOUTHERN SEMI-CIRCLE, CLOUDS TOPS GOT WARMER LIKELY DUE TO THE INCREASE OF THE NORTHWESTERLY VERTICAL WINDSHEAR (20-25KT ACCORDING TO CIMSS AT 03Z). MICROWAVE IMAEGRY (WINDSAT 0257Z) AND THIS MORNING ASCAT SWATH, SHOW STILL A BROAD INNER CORE, THAT DID NOT BENEFIT FROM THE CONVECTIVE BURST.

ELIAKIM STARTED TO BEND SOUTH-SOUTH-EASTWARD ON THE SOUTH-WESTERN EDGE OF A MID-TROPOSPHERIC RIDGE. IT IS FORECAST TO KEEP THIS COURSE WITH HIGH CONFIDENCE (EXCELLENT AGREEMENT AMONG NUMERICAL GUIDANCE). LATER THIS WEEK, THE SYSTEM MAY TRACK MORE SOUTH-EASTWARD AHEAD OF AN UPPER TROUGH WITHIN THE DISTURBED MID LATITUDES FLOW.

THE SYSTEM STILL BENEFITS FOR THE MOMENT OF A GOOD UPPER LEVEL DIVERGENCE AND AN OUTFLOW CHANNEL, AHEAD OF THE ARRIVING TROUGH. HOWEVER THE INCREASING NORTH-WESTERLY UPPER SHEAR IS LIKELY TO PREVENT FROM ANY SIGNIFICANT DEEPENING. FROM TUESDAY AND BEYOND, ELIAKIM SHOULD 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.