



**REGIONAL SPECIALISED METEOROLOGICAL CENTRE-TROPICAL CYCLONES, NEW DELHI**  
**SPECIAL TROPICAL WEATHER OUTLOOK**

**DEMS-RSMC TROPICAL CYCLONES NEW DELHI DATED 16.05.2018**

**SPECIAL TROPICAL WEATHER OUTLOOK FOR NORTH INDIAN OCEAN (THE BAY OF BENGAL AND ARABIAN SEA) ISSUED AT 1500 UTC OF 16.05.2018 BASED ON 1200 UTC OF 16.05.2018.**

THE WELL MARKED LOW PRESSURE AREA OVER SOUTHWEST & ADJOINING AREAS OF WESTCENTRAL ARABIAN SEA AND GULF OF ADEN MOVED WEST-NORTHWESTWARDS, CONCENTRATED INTO A DEPRESSION AND LAY CENTRED AT 1200 UTC OF 16<sup>TH</sup> MAY 2018 OVER GULF OF ADEN NEAR LATITUDE 13.0<sup>0</sup>N AND LONGITUDE 50.0<sup>0</sup>E, ABOUT 420 KM WEST-NORTHWEST OF SOCOTRA ISLAND (41494) AND 540 KM EAST-NORTHEAST OF ADEN (41480), YEMEN. IT IS VERY LIKELY TO INTENSIFY FURTHER INTO A DEEP DEPRESSION DURING NEXT 24 HRS. IT IS VERY LIKELY TO MOVE WEST-NORTHWESTWARDS TOWARDS YEMEN COAST NEXT 24 HRS AND THEN WEST SOUTHWESTWARDS DURING SUBSEQUENT 48 HOURS.

AS PER THE LATEST SATELLITE IMAGERY, THE INTENSITY OF THE SYSTEM IS T1.5. ASSOCIATED SCATTERED LOW & MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION LIE OVER AREA BETWEEN LATITUDE 8.5<sup>0</sup>N & 17.0<sup>0</sup>N AND WEST OF LONGITUDE 57.0<sup>0</sup>E GULF OF ADEN AND ADJOINING YEMEN.

THE ESTIMATED CENTRAL PRESSURE IS ABOUT 1001 HPA AND THE MAXIMUM SUSTAINED SURFACE WIND SPEED IS 25 KNOTS GUSTING TO 35 KNOTS. STATE OF SEA IS ROUGH TO VERY ROUGH.

**REMARKS:**

THE SEA SURFACE TEMPERATURE (SST) IS 30-32<sup>0</sup> C OVER THE SYSTEM AREA. THE TROPICAL CYCLONE HEAT POTENTIAL IS ABOUT 80-100 KJ/CM<sup>2</sup> OVER THE REGION OF THE LOW PRESSURE SYSTEM AND IT IS LESS THAN 50 KJ/CM<sup>2</sup> OVER THE GULF OF ADEN. THERE IS A MAXIMA OF VALUE  $10 \times 10^{-5} \text{ S}^{-1}$  IN LOW LEVEL CONVERGENCE TO THE SOUTHWEST OF THE SYSTEM CENTRE. THE UPPER LEVEL DIVERGENCE IS ABOUT  $20 \times 10^{-5} \text{ S}^{-1}$  TO THE NORTH OF SYSTEM CENTRE. VORTICITY AT 850 HPA LEVEL IS ABOUT  $100 \times 10^{-6} \text{ S}^{-1}$  AROUND THE SYSTEM CENTRE AND IS EXTENDING UPTO 500 HPA LEVEL. VERTICAL WIND SHEAR IS LOW TO MODERATE (10-15 KTS) AROUND THE SYSTEM CENTRE AND OVER GULF OF ADEN. IT INCREASES TOWARDS YEMEN AND OMAN COASTS. UPPER TROPOSPHERIC RIDGE LIES ALONG LATITUDE 18.0<sup>0</sup>N NEAR LONGITUDE 50<sup>0</sup>E. IT IS FAVOURING POLEWARD OUTFLOW AND HENCE INCREASING THE UPPER LEVEL DIVERGENCE. THE MADDEN JULIAN OSCILLATION (MJO) INDEX NOW LIES OVER PHASE 1 WITH AMPLITUDE GREATER THAN 1. IT IS EXPECTED TO MOVE EASTWARDS AND REACH NEAR PHASE 2 AROUND 18<sup>TH</sup> MAY 2018. HENCE THE MJO WILL BE FAVOURABLE FOR INTENSIFICATION.

THE MIDDLE AND UPPER LEVEL WINDS INDICATE THAT THE SYSTEM WOULD MOVE INITIALLY WEST-NORTHWESTWARDS ACROSS GULF OF ADEN DURING NEXT 48 HRS. UNDER FAVOURABLE SST AND ENVIRONMENTAL CONDITIONS LIKE VERTICAL WIND SHEAR AND UPPER LEVEL DIVERGENCE, THE SYSTEM WOULD INTENSIFY FURTHER DURING NEXT 24 HRS.

A FEW GLOBAL MODELS INDICATE WEST-NORTHWESTWARD MOVEMENT TOWARDS YEMEN COAST INITIALLY AND FURTHER INTENSIFICATION DURING NEXT 24 HOURS. THE GENESIS POTENTIAL PARAMETER BASED ON IMD GFS MODEL SUGGESTS POTENTIAL ZONE FOR FURTHER INTENSIFICATION OVER THE REGION DURING NEXT 24 HRS.

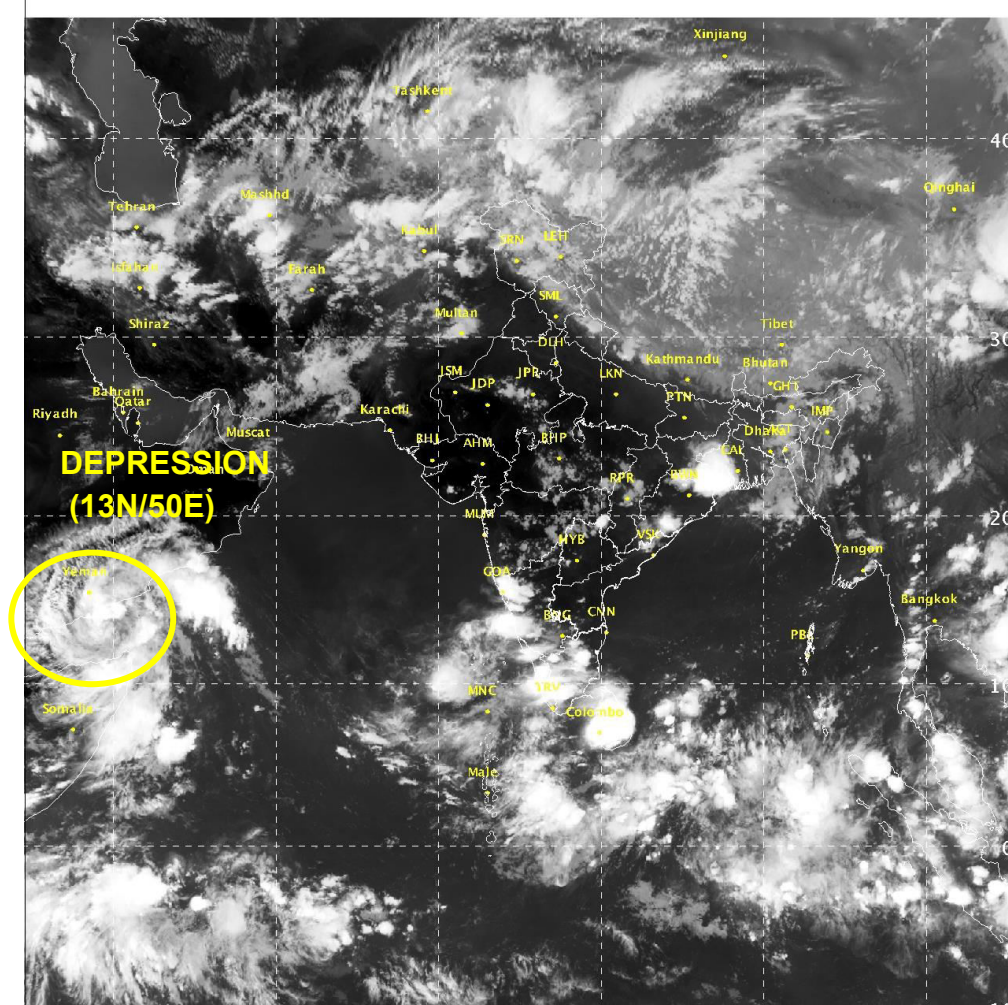
**PROBABILITY OF CYCLOGENESIS (FORMATION OF DEPRESSION)**

**NIL: 0%, LOW: 1-25%, FAIR: 26-50%, MODERATE: 51-75% AND HIGH: 76-100%**

**Contact: Phone: (91) 11-24652484 FAX: (91) 11-24623220 e-mail :cwdhq2008@gmail.com**

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IMG\_TIR1 10.8 um  
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16-05-2018/12:30 GMT  
16-05-2018/18:00 IST

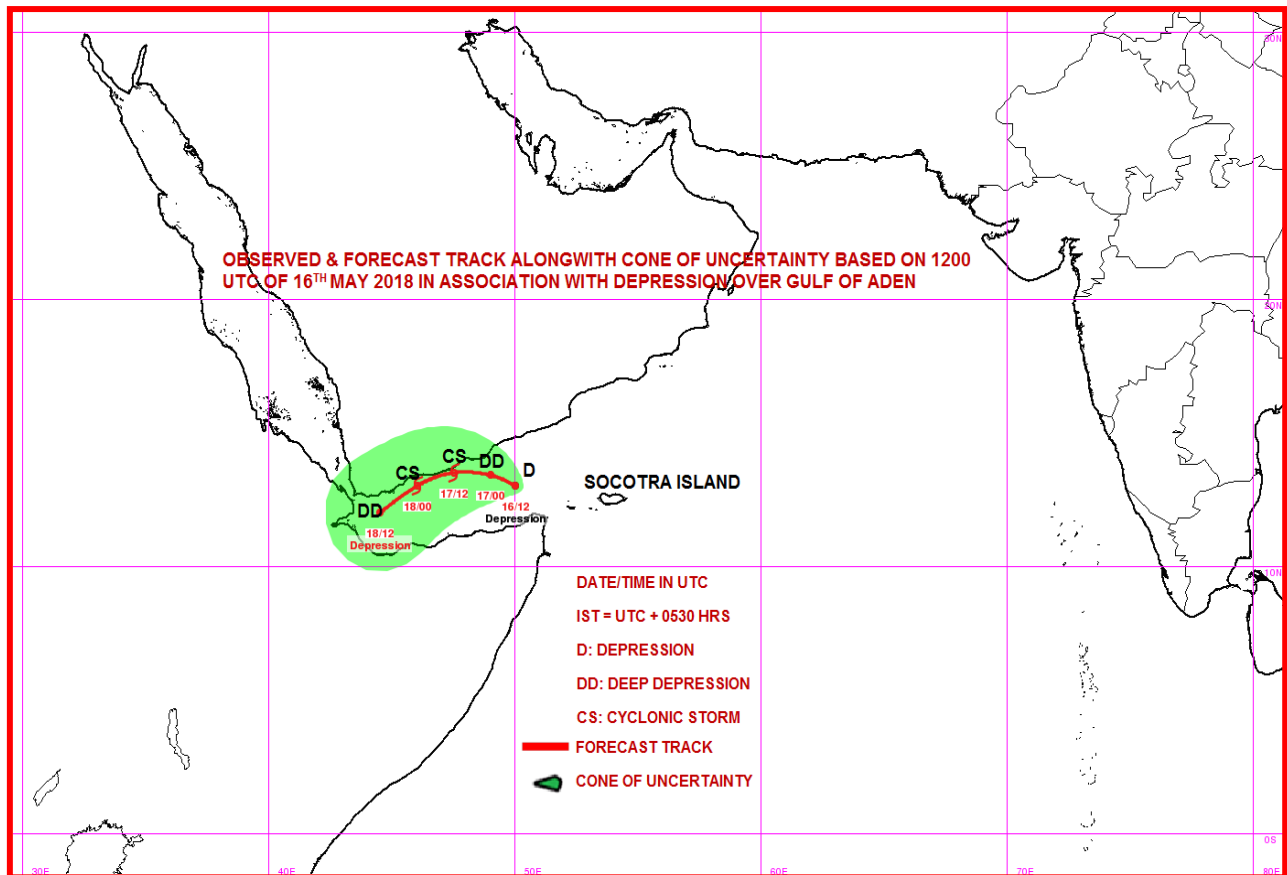


IMD/Delhi

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**SPECIAL TROPICAL WEATHER OUTLOOK**

**DEMS-RSMC TROPICAL CYCLONES NEW DELHI DATED 16.05.2018**

**SPECIAL TROPICAL WEATHER OUTLOOK FOR NORTH INDIAN OCEAN (THE BAY OF BENGAL AND ARABIAN SEA) ISSUED AT 2000 UTC OF 16.05.2018 BASED ON 1800 UTC OF 16.05.2018.**

LATEST OBSERVATIONS AND SATELLITE IMAGERIES INDICATE THAT THE DEPRESSION OVER GULF OF ADEN MOVED WEST-NORTHWESTWARDS WITH A SPEED OF ABOUT 08 KMPH DURING LAST 06 HOURS AND LAY CENTERED AT 1800 UTC OF THE 16TH MAY 2018 NEAR LATITUDE 13.2°N AND LONGITUDE 49.6°E OVER THE SAME REGION; ABOUT 500 KM EAST-NORTHEAST OF ADEN (41480), YEMEN AND 470 KM WEST-NORTHWEST OF SOCOTRA ISLANDS (41494). IT IS VERY LIKELY TO INTENSIFY FURTHER INTO A DEEP DEPRESSION DURING NEXT 12 HRS. IT IS VERY LIKELY TO MOVE INITIALLY WEST-NORTHWESTWARDS TOWARDS YEMEN COAST DURING NEXT 24 HRS AND THEN WEST-SOUTHWESTWARDS DURING SUBSEQUENT 36 HRS.

AS PER THE LATEST SATELLITE IMAGERY, THE INTENSITY OF THE SYSTEM IS T1.5. ASSOCIATED SCATTERED LOW & MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION LIE OVER AREA BETWEEN LATITUDE 8.5°N & 17.0°N AND WEST OF LONGITUDE 56.0°E GULF OF ADEN AND ADJOINING YEMEN.

THE ESTIMATED CENTRAL PRESSURE IS ABOUT 1001 HPA AND THE MAXIMUM SUSTAINED SURFACE WIND SPEED IS 25 KNOTS GUSTING TO 35 KNOTS. STATE OF SEA IS ROUGH TO VERY ROUGH.

Date/Time(UTC)	Position (Lat. °N/ long. °E)	Maximum sustained surface wind speed (kmph)	Category of cyclonic disturbance
16/1800	13.2/49.6	45-55 GUSTING TO 65	DEPRESSION
17/0600	13.4/48.3	55-65 GUSTING TO 75	DEEP DEPRESSION
17/1800	13.3/46.7	65-75 GUSTING TO 85	CYCLONIC STORM
18/0600	12.5/45.3	55-65 GUSTING TO 75	DEEP DEPRESSION
18/1800	12.0/44.0	40-50 GUSTING TO 60	DEPRESSION

**REMARKS:**

THE SEA SURFACE TEMPERATURE (SST) IS 30-32° C OVER THE SYSTEM AREA. THE TROPICAL CYCLONE HEAT POTENTIAL IS ABOUT 80-100 KJ/CM<sup>2</sup> OVER THE REGION OF THE LOW PRESSURE SYSTEM AND IT IS LESS THAN 50 KJ/CM<sup>2</sup> OVER THE GULF OF ADEN. THERE IS A MAXIMA OF VALUE 10x10<sup>-5</sup> S<sup>-1</sup> IN LOW LEVEL CONVERGENCE TO THE NORTH OF THE SYSTEM CENTRE. THE UPPER LEVEL DIVERGENCE IS ABOUT 30x10<sup>-5</sup> S<sup>-1</sup> OVER THE SYSTEM CENTRE. VORTICITY AT 850 HPA LEVEL IS ABOUT 100x10<sup>-6</sup> S<sup>-1</sup> AROUND THE SYSTEM CENTRE AND IS EXTENDING UPTO 500 HPA LEVEL. VERTICAL WIND SHEAR IS LOW TO MODERATE (10-15 KTS) AROUND THE SYSTEM CENTRE AND OVER GULF OF ADEN. IT INCREASES TOWARDS YEMEN AND OMAN COASTS. UPPER TROPOSPHERIC RIDGE LIES ALONG LATITUDE 18.0°N NEAR LONGITUDE 50°E. IT IS FAVOURING POLEWARD OUTFLOW AND HENCE INCREASING THE UPPER LEVEL DIVERGENCE. THE MADDEN JULIAN OSCILLATION (MJO) INDEX NOW LIES OVER PHASE 1 WITH AMPLITUDE GREATER THAN 1. IT IS EXPECTED TO MOVE EASTWARDS AND

**PROBABILITY OF CYCLOGENESIS (FORMATION OF DEPRESSION)**

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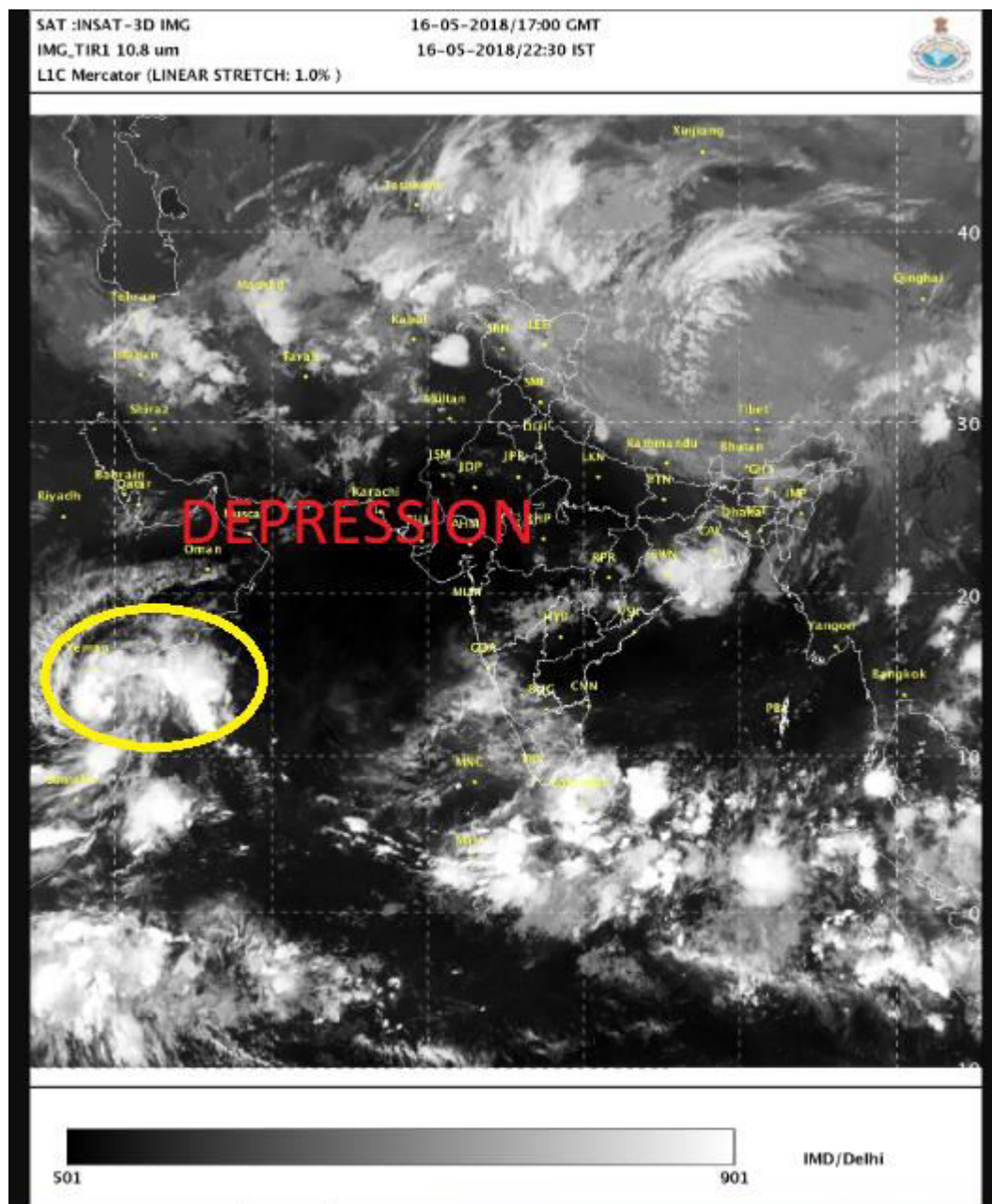


REACH NEAR PHASE 2 AROUND 18<sup>TH</sup> MAY 2018. HENCE THE MJO WILL BE FAVOURABLE FOR INTENSIFICATION.

THE MIDDLE AND UPPER LEVEL WINDS INDICATE THAT THE SYSTEM WOULD MOVE INITIALLY WEST-NORTHWESTWARDS ACROSS GULF OF ADEN DURING NEXT 48 HRS. UNDER FAVOURABLE SST AND ENVIRONMENTAL CONDITIONS LIKE VERTICAL WIND SHEAR AND UPPER LEVEL DIVERGENCE, THE SYSTEM WOULD INTENSIFY FURTHER DURING NEXT 24 HRS.

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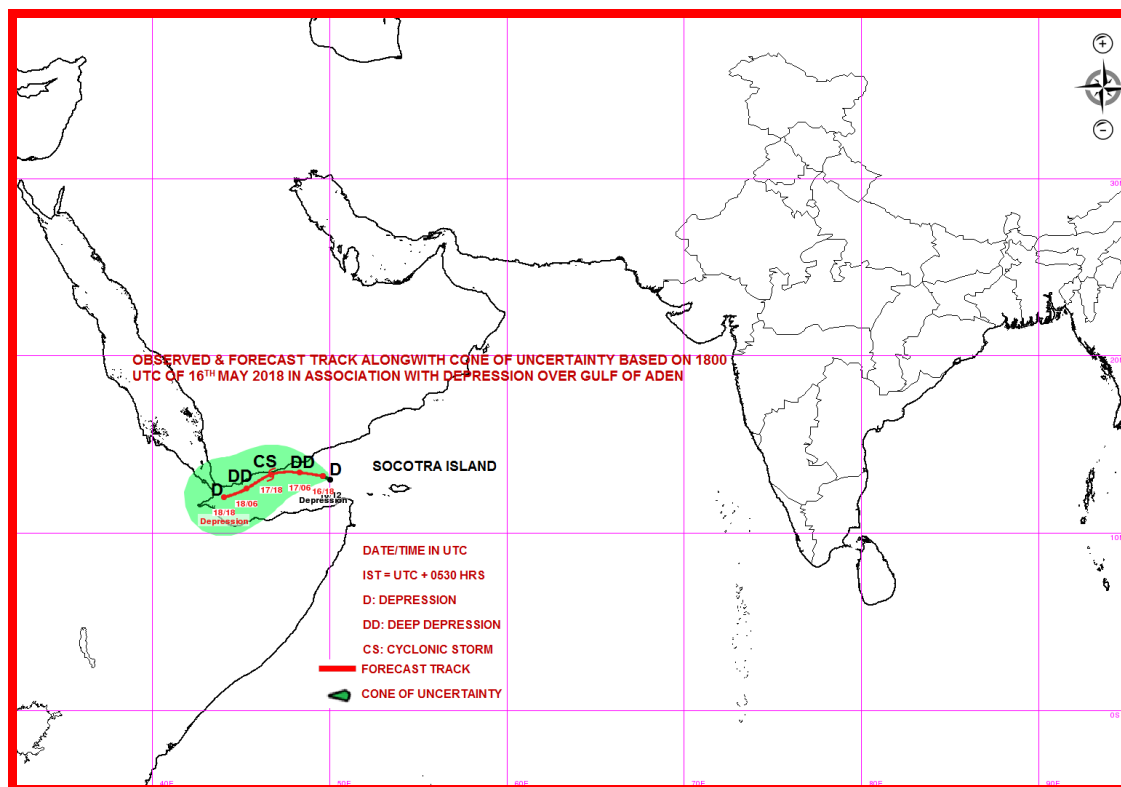
(DR Pattanaik)  
Scientist-E, RSMC, New Delhi



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**SPECIAL TROPICAL WEATHER OUTLOOK**

**DEMS-RSMC TROPICAL CYCLONES NEW DELHI DATED 17.05.2018**

**SPECIAL TROPICAL WEATHER OUTLOOK FOR NORTH INDIAN OCEAN (THE BAY OF BENGAL AND ARABIAN SEA) ISSUED AT 0300 UTC OF 17.05.2018 BASED ON 0000 UTC OF 17.05.2018.**

THE DEPRESSION OVER GULF OF ADEN MOVED WESTWARDS DURING PAST 06 HRS WITH A SPEED OF 11 KMPH, INTENSIFIED INTO A DEEP DEPRESSION AND LAY CENTERED AT 0000 UTC OF TODAY, THE 17<sup>TH</sup> MAY 2018 OVER GULF OF ADEN NEAR LATITUDE 13.2°N AND LONGITUDE 49.0°E; ABOUT 430 KM EAST-NORTHEAST OF ADEN (41480), YEMEN AND 530 KM WEST-NORTHWEST OF SOCOTRA ISLANDS (41494). IT IS VERY LIKELY TO INTENSIFY FURTHER INTO A CYCLONIC STORM DURING NEXT 12 HRS. IT IS VERY LIKELY TO MOVE INITIALLY WESTWARDS DURING NEXT 12 HRS AND THEN WEST-SOUTHWESTWARDS DURING SUBSEQUENT 24 HRS.

AS PER THE LATEST SATELLITE IMAGERY, THE INTENSITY OF THE SYSTEM IS T1.5. ASSOCIATED SCATTERED LOW & MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION LIE OVER AREA BETWEEN LATITUDE 8.5°N & 17.0°N AND WEST OF LONGITUDE 56.0°E GULF OF ADEN AND ADJOINING YEMEN.

THE ESTIMATED CENTRAL PRESSURE IS ABOUT 999 HPA AND THE MAXIMUM SUSTAINED SURFACE WIND SPEED IS 25 KNOTS GUSTING TO 35 KNOTS. STATE OF SEA IS ROUGH TO VERY ROUGH.

Date/Time(UTC)	Position (Lat. °N/ long. °E)	Maximum sustained surface wind speed (kmph)	Category of cyclonic disturbance
17/0000	13.2/49.0	50-60 GUSTING TO 70	DEEP DEPRESSION
17/0600	13.2/48.5	55-65 GUSTING TO 75	DEEP DEPRESSION
17/1200	13.0/47.6	65-75 GUSTING TO 85	CYCLONIC STORM
17/1800	12.8/47.0	70-80 GUSTING TO 90	CYCLONIC STORM
18/0000	12.7/46.5	55-65 GUSTING TO 75	DEEP DEPRESSION
18/1200	12.5/45.2	45-55 GUSTING TO 65	DEPRESSION

**REMARKS:**

THE SEA SURFACE TEMPERATURE (SST) IS 30-32° C OVER THE SYSTEM AREA. THE TROPICAL CYCLONE HEAT POTENTIAL IS ABOUT 80-100 KJ/CM<sup>2</sup> OVER THE REGION OF THE LOW PRESSURE SYSTEM AND IT IS LESS THAN 50 KJ/CM<sup>2</sup> OVER THE GULF OF ADEN. THERE IS A MAXIMA OF VALUE 30x10<sup>-5</sup> S<sup>-1</sup> IN LOW LEVEL CONVERGENCE TO THE SOUTH OF THE SYSTEM CENTRE. THE UPPER LEVEL DIVERGENCE IS ABOUT 20x10<sup>-5</sup> S<sup>-1</sup> OVER THE SYSTEM CENTRE. VORTICITY AT 850 HPA LEVEL IS ABOUT 100x10<sup>-6</sup> S<sup>-1</sup> AROUND THE SYSTEM CENTRE AND IS EXTENDING UPTO 500 HPA LEVEL. VERTICAL WIND SHEAR IS LOW TO MODERATE (10-15 KTS) AROUND THE SYSTEM CENTRE AND OVER GULF OF ADEN. IT INCREASES TOWARDS YEMEN AND OMAN COASTS. UPPER TROPOSPHERIC RIDGE LIES ALONG LATITUDE 17.0°N NEAR LONGITUDE 50°E. IT IS FAVOURING POLEWARD OUTFLOW AND HENCE INCREASING THE UPPER LEVEL DIVERGENCE. THE MADDEN JULIAN OSCILLATION (MJO) INDEX NOW LIES OVER PHASE 1 WITH AMPLITUDE GREATER THAN 1. IT IS EXPECTED TO MOVE EASTWARDS AND

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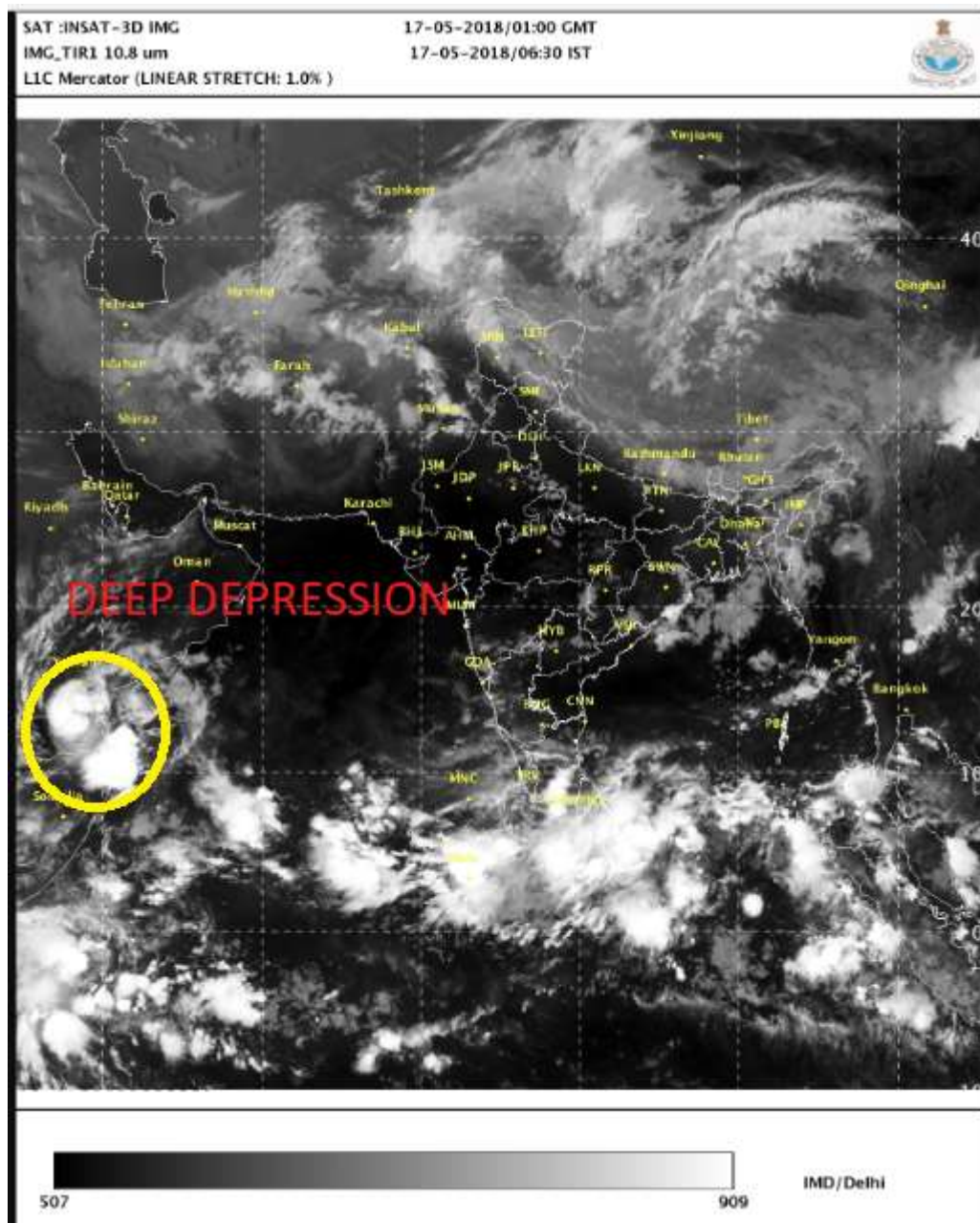
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REACH NEAR PHASE 2 AROUND 18<sup>TH</sup> MAY 2018. HENCE THE MJO WILL BE FAVOURABLE FOR INTENSIFICATION.

THE MIDDLE AND UPPER LEVEL WINDS INDICATE THAT THE SYSTEM WOULD MOVE INITIALLY WESTWARDS DURING NEXT 12 HOURS AND THEN WEST-SOUTHWESTWARDS ACROSS GULF OF ADEN DURING SUBSEQUENT 24 HRS. UNDER FAVOURABLE SST AND ENVIRONMENTAL CONDITIONS LIKE VERTICAL WIND SHEAR AND UPPER LEVEL DIVERGENCE, THE SYSTEM WOULD INTENSIFY FURTHER DURING NEXT 12 HRS. NWP MODELS ARE IN AGREEMENT WITH ABOVE CONSENSUS.

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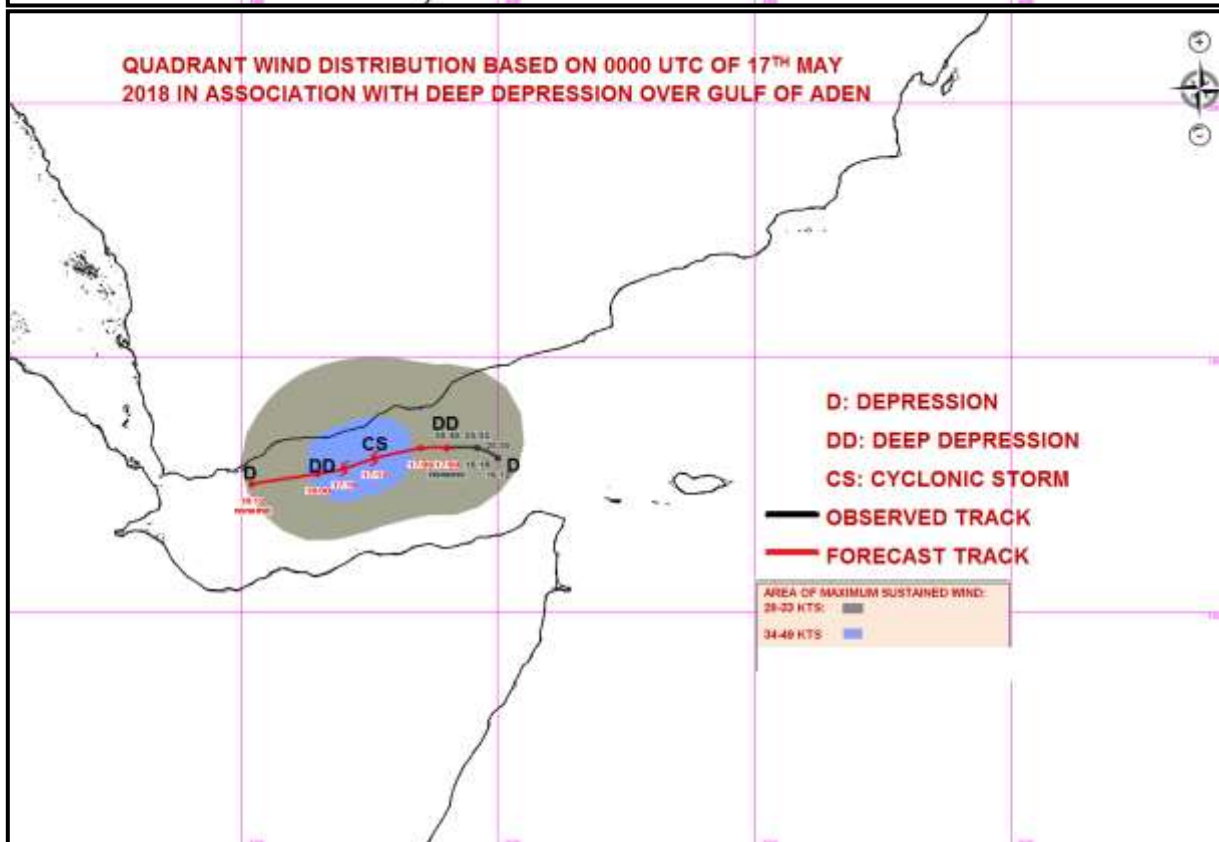
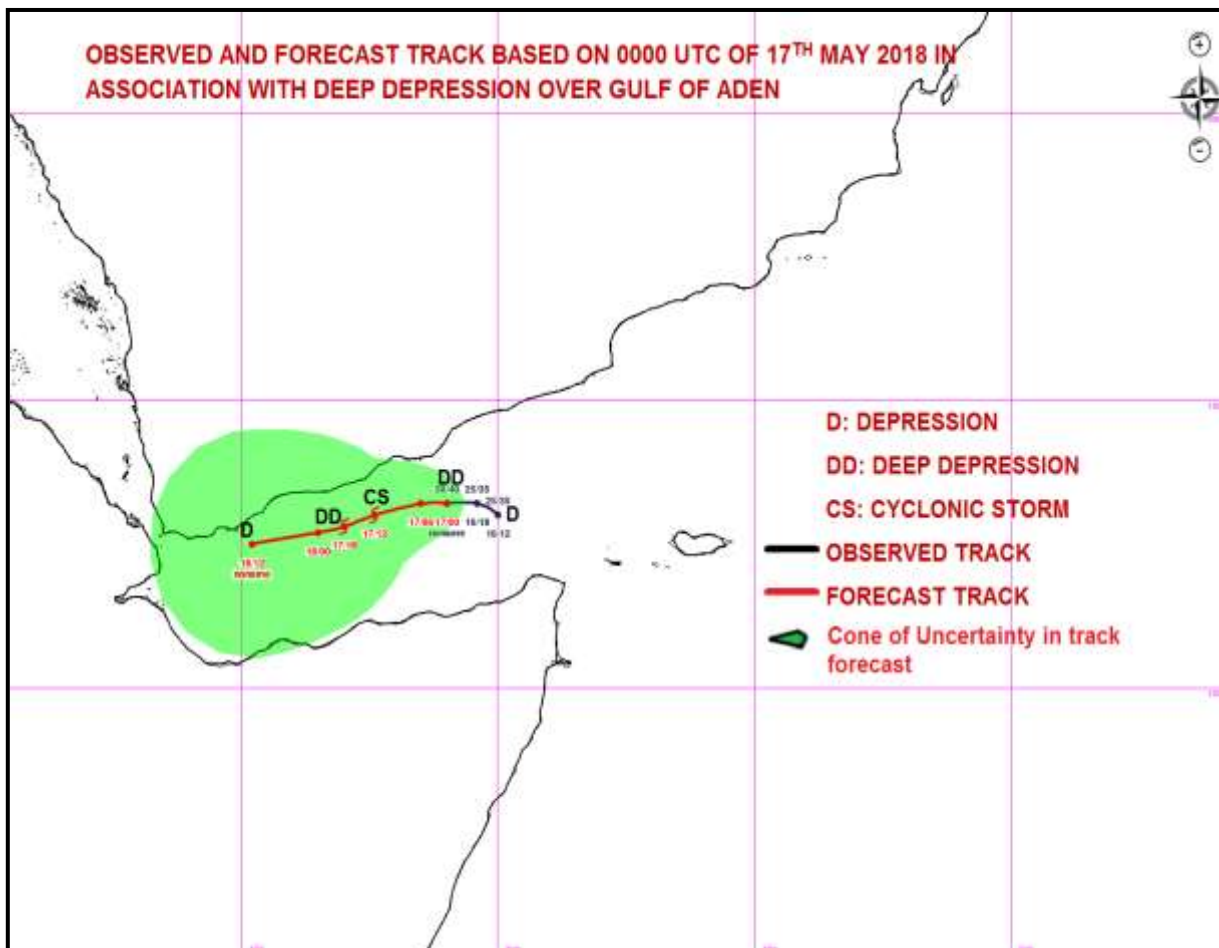


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**REGIONAL SPECIALISED METEOROLOGICAL CENTRE-TROPICAL CYCLONES, NEW DELHI**  
**TROPICAL CYCLONE ADVISORY BULLETIN**

**FROM: RSMC –TROPICAL CYCLONES, NEW DELHI**

**TO: STORM WARNING CENTRE, NAYPYI TAW (MYANMAR)**

**STORM WARNING CENTRE, BANGKOK (THAILAND)**

**STORM WARNING CENTRE, COLOMBO (SRILANKA)**

**STORM WARNING CENTRE, DHAKA (BANGLADESH)**

**STORM WARNING CENTRE, KARACHI (PAKISTAN)**

**METEOROLOGICAL OFFICE, MALE (MALDIVES)**

**OMAN METEOROLOGICAL DEPARTMENT, MUSCAT(THROUGH RTH JEDDAH)**

**YEMEN METEOROLOGICAL SERVICES, REPUBLIC OF YEMEN (THROUGH RTH JEDDAH)**

**TROPICAL STORM 'SAGAR' ADVISORY NO. ONE ISSUED AT 0600 UTC OF 17<sup>TH</sup> MAY 2018 BASED ON 0300 UTC OF 17<sup>TH</sup> MAY 2018**

THE DEEP DEPRESSION OVER GULF OF ADEN MOVED WESTWARDS DURING PAST 06 HRS WITH A SPEED OF 11 KMPH, INTENSIFIED INTO A CYCLONIC STORM "**SAGAR**" AND LAY CENTERED AT 0300 UTC OF TODAY, THE 17<sup>TH</sup> MAY 2018 OVER GULF OF ADEN NEAR LATITUDE 13.2°N AND LONGITUDE 48.7°E; ABOUT 400 KM EAST-NORTHEAST OF ADEN (41480) AND 560 KM WEST-NORTHWEST OF SOCOTRA ISLANDS (41494). IT IS VERY LIKELY TO INTENSIFY FURTHER SLIGHTLY DURING NEXT 12 HRS. IT IS VERY LIKELY TO MOVE INITIALLY WESTWARDS DURING NEXT 12 HRS AND THEN WEST-SOUTHWESTWARDS DURING SUBSEQUENT 24 HRS.

AS PER THE LATEST SATELLITE IMAGERY, THE INTENSITY OF THE SYSTEM IS T2.5. ASSOCIATED SCATTERED LOW & MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION LIE OVER AREA BETWEEN LATITUDE 10.5°N & 16.0°N AND WEST OF LONGITUDE 54.0°E GULF OF ADEN AND ADJOINING YEMEN.

THE ESTIMATED CENTRAL PRESSURE IS ABOUT 997 HPA AND THE MAXIMUM SUSTAINED SURFACE WIND SPEED IS 35 KNOTS GUSTING TO 45 KNOTS. STATE OF SEA IS HIGH AROUND THE SYSTEM CENTRE.

DATE/TIME(UTC)	POSITION (LAT. °N/ LONG. °E)	MAXIMUM SUSTAINED SURFACE WIND SPEED (KMPH)	CATEGORY OF CYCLONIC DISTURBANCE
17/0300	13.2/48.7	65-75 GUSTING TO 85	CYCLONIC STORM
17/0600	13.2/48.5	65-75 GUSTING TO 85	CYCLONIC STORM
17/1200	13.0/47.6	70-80 GUSTING TO 90	CYCLONIC STORM
17/1800	12.8/47.0	70-80 GUSTING TO 90	CYCLONIC STORM
18/0000	12.7/46.5	55-65 GUSTING TO 75	DEEP DEPRESSION
18/1200	12.5/45.2	45-55 GUSTING TO 65	DEPRESSION

**PROBABILITY OF CYCLOGENESIS (FORMATION OF DEPRESSION)**

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**REMARKS:**

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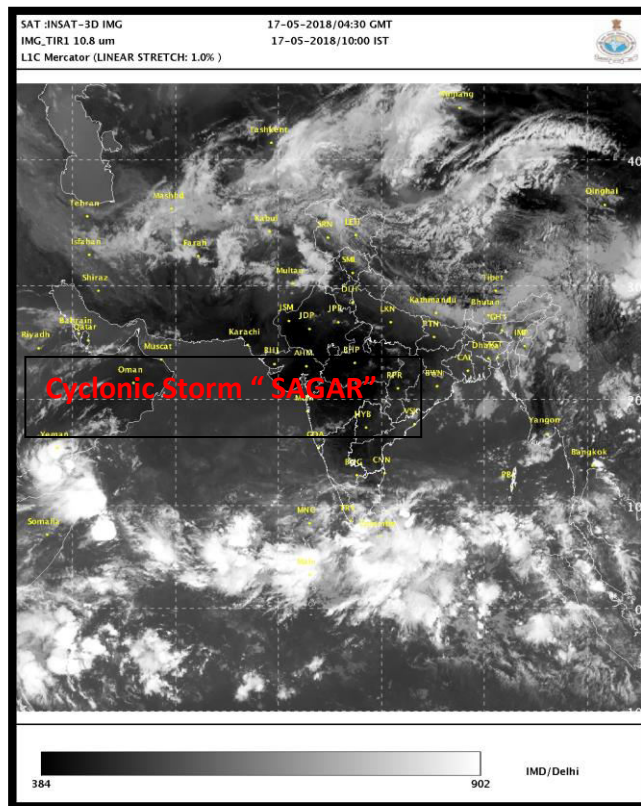
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**(NARESH KUMAR)**  
**SCIENTIST-E, RSMC, NEW DELHI**

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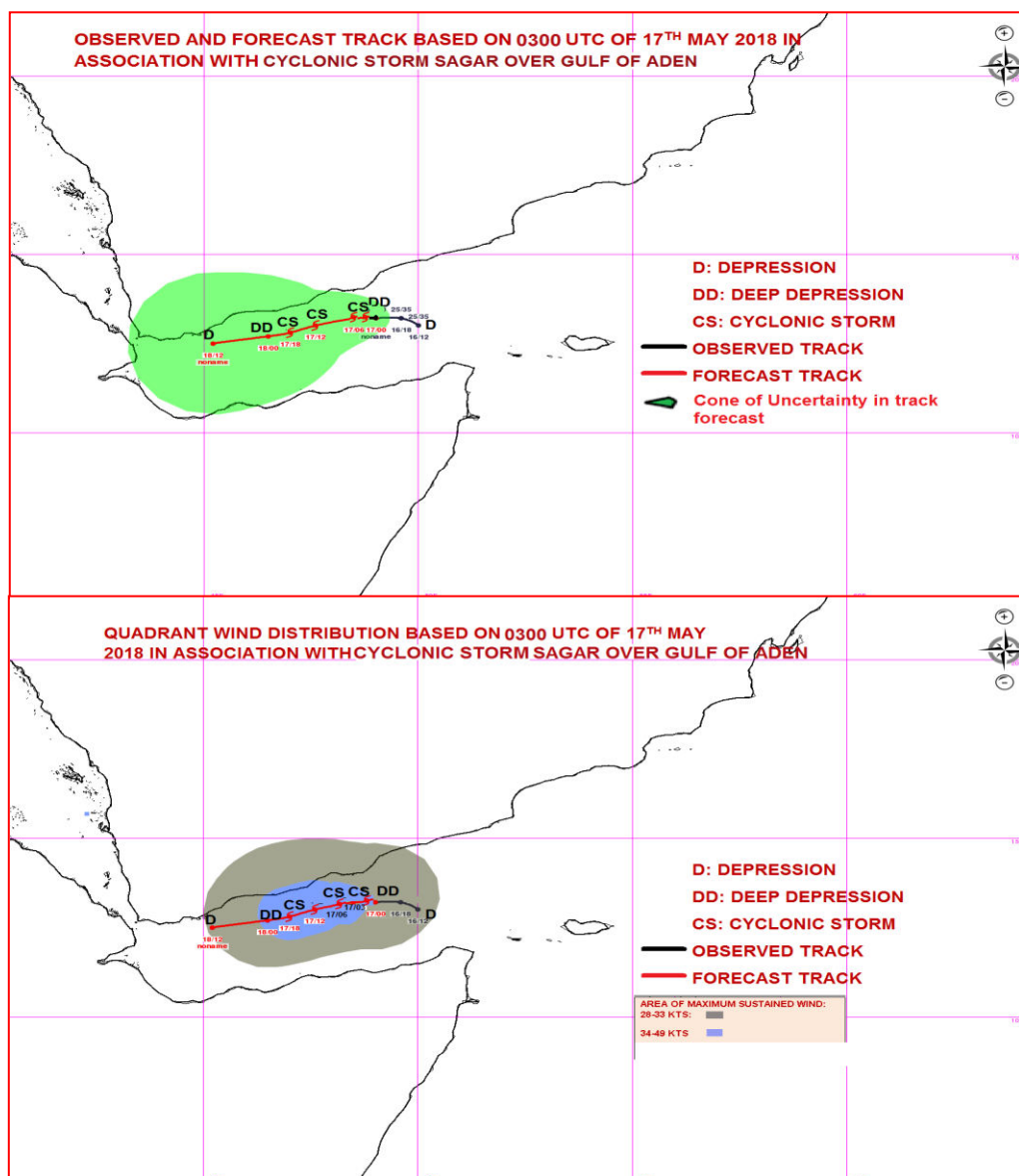
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**TROPICAL CYCLONE ADVISORY BULLETIN**

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**TO: STORM WARNING CENTRE, NAYPYI TAW (MYANMAR)**  
**STORM WARNING CENTRE, BANGKOK (THAILAND)**  
**STORM WARNING CENTRE, COLOMBO (SRILANKA)**  
**STORM WARNING CENTRE, DHAKA (BANGLADESH)**  
**STORM WARNING CENTRE, KARACHI (PAKISTAN)**  
**METEOROLOGICAL OFFICE, MALE (MALDIVES)**  
**OMAN METEOROLOGICAL DEPARTMENT, MUSCAT(THROUGH RTH JEDDAH)**  
**YEMEN METEOROLOGICAL SERVICES, REPUBLIC OF YEMEN (THROUGH RTH JEDDAH)**

**TROPICAL STORM ‘SAGAR’ ADVISORY NO. TWO ISSUED AT 0900 UTC OF 17<sup>TH</sup> MAY 2018 BASED ON 0600 UTC OF 17<sup>TH</sup> MAY 2018**

THE CYCLONIC STORM “**SAGAR**” OVER GULF OF ADEN MOVED WEST-SOUTHWEST WARDS WITH A SPEED OF ABOUT 11 KM PER HOUR AND LAY CENTERED AT 0600 UTC OF TODAY, THE 17<sup>TH</sup> MAY 2018 OVER GULF OF ADEN NEAR LATITUDE 13.0°N AND LONGITUDE 48.4°E; ABOUT 360 KM EAST-NORTHEAST OF ADEN (41480) AND 590 KM WEST-NORTHWEST OF SOCOTRA ISLANDS (41494). IT IS VERY LIKELY TO INTENSIFY FURTHER SLIGHTLY DURING NEXT 12 HRS. IT IS VERY LIKELY TO MOVE INITIALLY WESTWARDS DURING NEXT 12 HRS AND THEN WEST-SOUTHWESTWARDS DURING SUBSEQUENT 48 HRS.

AS PER THE LATEST SATELLITE IMAGERY, THE INTENSITY OF THE SYSTEM IS T2.5. ASSOCIATED SCATTERED LOW & MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION LIE OVER AREA BETWEEN LATITUDE 10.5°N TO 16.0°N AND WEST OF LONGITUDE 54.0°E GULF OF ADEN AND ADJOINING YEMEN.

THE ESTIMATED CENTRAL PRESSURE IS ABOUT 997 HPA AND THE MAXIMUM SUSTAINED SURFACE WIND SPEED IS 35 KNOTS GUSTING TO 45 KNOTS. STATE OF SEA IS HIGH AROUND THE SYSTEM CENTRE.

DATE/TIME(UTC)	POSITION (LAT. °N/ LONG. °E)	MAXIMUM SUSTAINED SURFACE WIND SPEED (KMPH)	CATEGORY OF CYCLONIC DISTURBANCE
17/0600	13.0/48.4	65-75 GUSTING TO 85	CYCLONIC STORM
17/1200	12.9/47.8	70-80 GUSTING TO 90	CYCLONIC STORM
17/1800	12.6/47.2	70-80 GUSTING TO 90	CYCLONIC STORM
18/0000	12.5/46.6	70-80 GUSTING TO 90	CYCLONIC STORM
18/0600	12.3/46.0	65-75 GUSTING TO 85	CYCLONIC STORM
18/1800	12.0/44.7	55-65 GUSTING TO 75	DEEP DEPRESSION
19/0600	11.7/43.4	45-55 GUSTING TO 65	DEPRESSION

**PROBABILITY OF CYCLOGENESIS (FORMATION OF DEPRESSION)**

**NIL: 0%, LOW: 1-25%, FAIR: 26-50%, MODERATE: 51-75% AND HIGH: 76-100%**

**Contact: Phone: (91) 11-24652484 FAX: (91) 11-24623220 e-mail :cwdhq2008@gmail.com**



**REMARKS:**

THE SEA SURFACE TEMPERATURE (SST) IS 30-32<sup>0</sup> C OVER THE SYSTEM AREA. THE TROPICAL CYCLONE HEAT POTENTIAL IS ABOUT 80-100 KJ/CM<sup>2</sup> OVER THE REGION OF THE SYSTEM. THERE IS A MAXIMA OF VALUE 20X10<sup>-5</sup> S<sup>-1</sup> IN LOW LEVEL CONVERGENCE TO THE SOUTH OF THE SYSTEM CENTRE. THE UPPER LEVEL DIVERGENCE IS ABOUT 20X10<sup>-5</sup> S<sup>-1</sup> AROUND THE SYSTEM CENTRE. VORTICITY AT 850 HPA LEVEL IS ABOUT 50X10<sup>-6</sup> S<sup>-1</sup> IN THE SOUTH-SOUTHEAST OF THE SYSTEM CENTRE AND IS EXTENDING UPTO 500 HPA LEVEL. VERTICAL WIND SHEAR IS LOW TO MODERATE (10-15 KTS) AROUND THE SYSTEM CENTRE. IT INCREASES TOWARDS YEMEN AND OMAN COASTS. UPPER TROPOSPHERIC RIDGE LIES ALONG LATITUDE 16.0<sup>0</sup>N NEAR LONGITUDE 50<sup>0</sup>E. IT IS FAVOURING POLEWARD OUTFLOW AND HENCE INCREASING THE UPPER LEVEL DIVERGENCE. THE MADDEN JULIAN OSCILLATION (MJO) INDEX NOW LIES OVER PHASE 1 WITH AMPLITUDE GREATER THAN 1. IT IS EXPECTED TO MOVE EASTWARDS AND REACH NEAR PHASE 2 AROUND 18<sup>TH</sup> MAY 2018. HENCE THE MJO WILL BE FAVOURABLE FOR INTENSIFICATION.

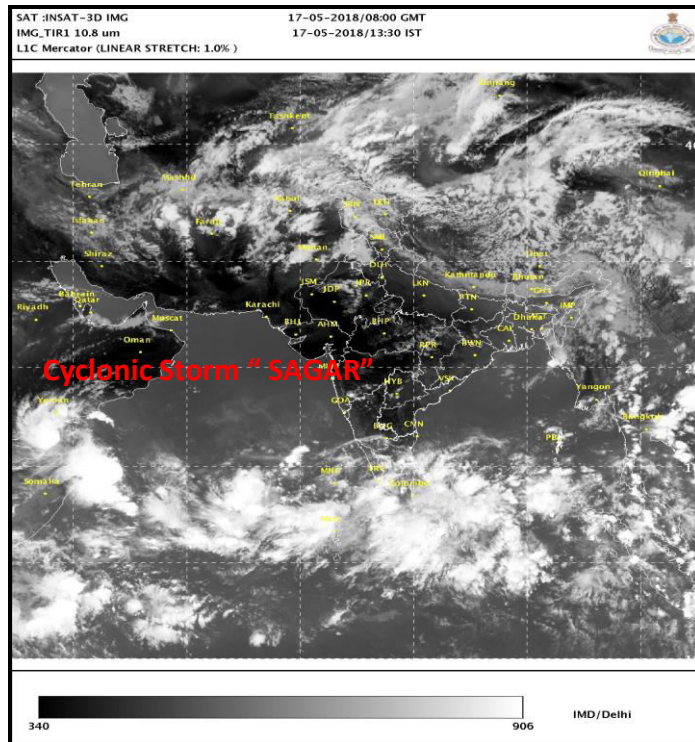
THE MIDDLE AND UPPER LEVEL WINDS INDICATE THAT THE SYSTEM WOULD MOVE INITIALLY WESTWARDS DURING NEXT 12 HOURS AND THEN WEST-SOUTHWESTWARDS ACROSS GULF OF ADEN DURING SUBSEQUENT 24 HRS. UNDER FAVOURABLE SST AND ENVIRONMENTAL CONDITIONS LIKE VERTICAL WIND SHEAR AND UPPER LEVEL DIVERGENCE, THE SYSTEM WOULD INTENSIFY FURTHER DURING NEXT 12 HRS. NWP MODELS ARE IN AGREEMENT WITH ABOVE CONSENSUS.

(NEETHA GOPAL)  
SCIENTIST-E, RSMC, NEW DELHI

**PROBABILITY OF CYCLOGENESIS (FORMATION OF DEPRESSION)**

**NIL: 0%, LOW: 1-25%, FAIR: 26-50%, MODERATE: 51-75% AND HIGH: 76-100%**

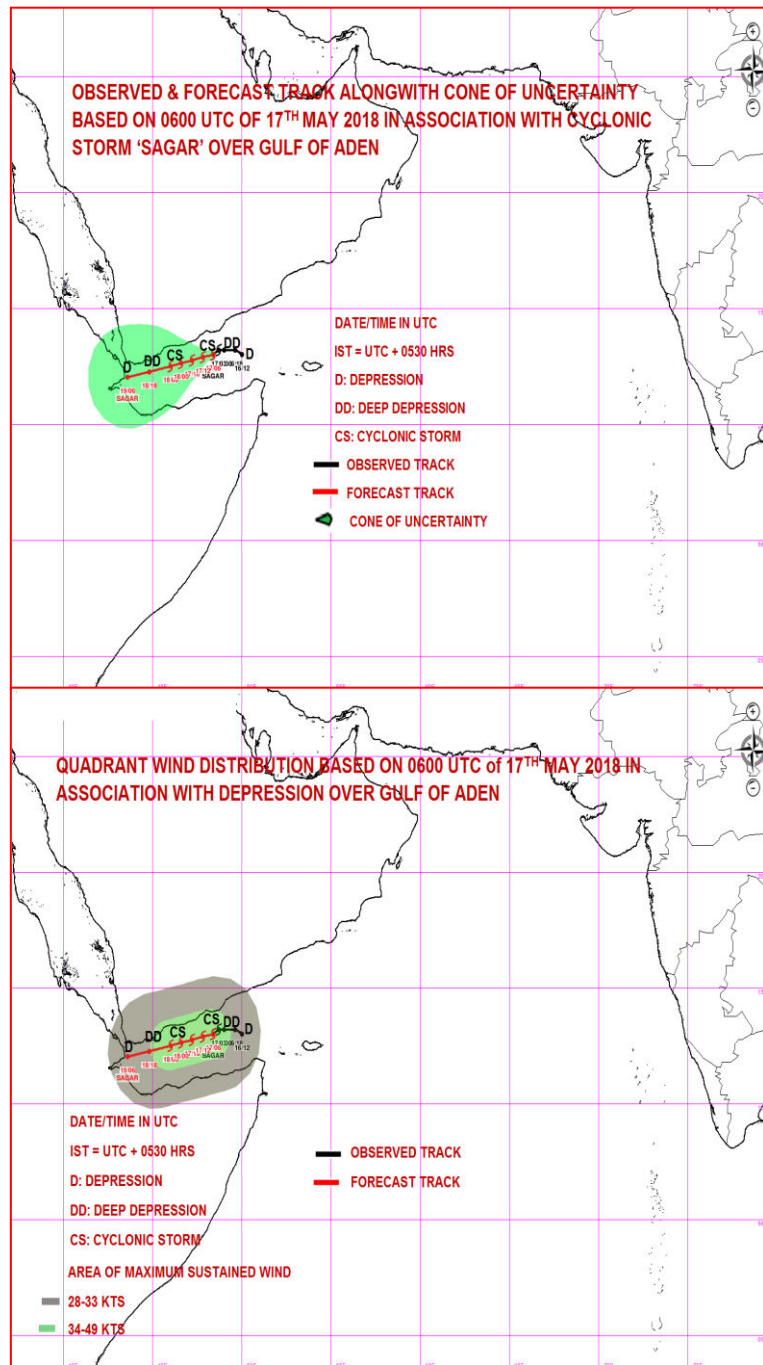
**Contact: Phone: (91) 11-24652484 FAX: (91) 11-24623220 e-mail :cwdhq2008@gmail.com**



**PROBABILITY OF CYCLOGENESIS (FORMATION OF DEPRESSION)**

**NIL: 0%, LOW: 1-25%, FAIR: 26-50%, MODERATE: 51-75% AND HIGH: 76-100%**

**Contact: Phone: (91) 11-24652484 FAX: (91) 11-24623220 e-mail :cwdhq2008@gmail.com**



**PROBABILITY OF CYCLOGENESIS (FORMATION OF DEPRESSION)**

**NIL: 0%, LOW: 1-25%, FAIR: 26-50%, MODERATE: 51-75% AND HIGH: 76-100%**

**Contact: Phone: (91) 11-24652484 FAX: (91) 11-24623220 e-mail :cwdhq2008@gmail.com**



**REGIONAL SPECIALISED METEOROLOGICAL CENTRE-TROPICAL CYCLONES, NEW DELHI**  
**TROPICAL CYCLONE ADVISORY BULLETIN**

**FROM: RSMC –TROPICAL CYCLONES, NEW DELHI**  
**TO: STORM WARNING CENTRE, NAYPYI TAW (MYANMAR)**  
**STORM WARNING CENTRE, BANGKOK (THAILAND)**  
**STORM WARNING CENTRE, COLOMBO (SRILANKA)**  
**STORM WARNING CENTRE, DHAKA (BANGLADESH)**  
**STORM WARNING CENTRE, KARACHI (PAKISTAN)**  
**METEOROLOGICAL OFFICE, MALE (MALDIVES)**  
**OMAN METEOROLOGICAL DEPARTMENT, MUSCAT(THROUGH RTH JEDDAH)**  
**YEMEN METEOROLOGICAL SERVICES, REPUBLIC OF YEMEN (THROUGH RTH JEDDAH)**

**TROPICAL STORM ‘SAGAR’ ADVISORY NO. THREE ISSUED AT 1130 UTC OF 17<sup>TH</sup> MAY 2018**  
**BASED ON 0900 UTC OF 17<sup>TH</sup> MAY 2018**

THE CYCLONIC STORM “SAGAR” OVER GULF OF ADEN MOVED SLIGHTLY WESTWARDS WITH A SPEED OF 8 KMPH DURING PAST 6 HOURS, AND LAY CENTERED AT 0900 UTC OF TODAY, THE 17<sup>TH</sup> MAY 2018 OVER GULF OF ADEN NEAR LATITUDE 13.0°N AND LONGITUDE 48.3°E; ABOUT 390 KM EAST-NORTHEAST OF ADEN (41480) AND 560 KM WEST-NORTHWEST OF SOCOTRA ISLANDS (41494). IT IS VERY LIKELY TO INTENSIFY FURTHER SLIGHTLY DURING NEXT 12 HRS. IT IS VERY LIKELY TO CONTINUE TO MOVE WESTWARDS FOR SOME MORE TIME AND THEN MOVE WEST-SOUTHWESTWARDS THEREAFTER.

AS PER THE LATEST SATELLITE IMAGERY, THE INTENSITY OF THE SYSTEM IS T2.5. ASSOCIATED SCATTERED LOW & MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION LIE OVER AREA BETWEEN LATITUDE 11.5°N TO 16.0°N AND LONGITUDE 45.0°E TO 50.0°E GULF OF ADEN AND ADJOINING SAUDI ARABIA AND YEMEN.

THE ESTIMATED CENTRAL PRESSURE IS ABOUT 997 HPA AND THE MAXIMUM SUSTAINED SURFACE WIND SPEED IS 35 KNOTS GUSTING TO 45 KNOTS. STATE OF SEA IS HIGH AROUND THE SYSTEM CENTRE.

DATE/TIME(UTC)	POSITION (LAT. °N/ LONG. °E)	MAXIMUM SUSTAINED SURFACE WIND SPEED (KMPH)	CATEGORY OF CYCLONIC DISTURBANCE
17/0900	13.0/48.3	65-75 GUSTING TO 85	CYCLONIC STORM
17/1200	12.9/47.8	70-80 GUSTING TO 90	CYCLONIC STORM
17/1800	12.6/47.2	70-80 GUSTING TO 90	CYCLONIC STORM
18/0000	12.5/46.6	70-80 GUSTING TO 90	CYCLONIC STORM
18/0600	12.3/46.0	65-75 GUSTING TO 85	CYCLONIC STORM
18/1800	12.0/44.7	55-65 GUSTING TO 75	DEEP DEPRESSION
19/0600	11.7/43.4	45-55 GUSTING TO 65	DEPRESSION

**PROBABILITY OF CYCLOGENESIS (FORMATION OF DEPRESSION)**

**NIL: 0%, LOW: 1-25%, FAIR: 26-50%, MODERATE: 51-75% AND HIGH: 76-100%**

**Contact: Phone: (91) 11-24652484 FAX: (91) 11-24623220 e-mail :cwdhq2008@gmail.com**

**REMARKS:**

THE SEA SURFACE TEMPERATURE (SST) IS 30-32<sup>0</sup> C OVER THE SYSTEM AREA. THE TROPICAL CYCLONE HEAT POTENTIAL IS ABOUT 80-100 KJ/CM<sup>2</sup> OVER THE REGION OF THE SYSTEM. THERE IS A MAXIMA OF VALUE 20X10<sup>-5</sup> S<sup>-1</sup> IN LOW LEVEL CONVERGENCE TO THE SOUTH OF THE SYSTEM CENTRE. THE UPPER LEVEL DIVERGENCE IS ABOUT 20X10<sup>-5</sup> S<sup>-1</sup> AROUND THE SYSTEM CENTRE. VORTICITY AT 850 HPA LEVEL IS ABOUT 50X10<sup>-6</sup> S<sup>-1</sup> IN THE SOUTH-SOUTHEAST OF THE SYSTEM CENTRE AND IS EXTENDING UPTO 500 HPA LEVEL. VERTICAL WIND SHEAR IS LOW TO MODERATE (10-15 KTS) AROUND THE SYSTEM CENTRE. IT INCREASES TOWARDS YEMEN AND OMAN COASTS. UPPER TROPOSPHERIC RIDGE LIES ALONG LATITUDE 16.0<sup>0</sup>N NEAR LONGITUDE 50<sup>0</sup>E. IT IS FAVOURING POLEWARD OUTFLOW AND HENCE INCREASING THE UPPER LEVEL DIVERGENCE. THE MADDEN JULIAN OSCILLATION (MJO) INDEX NOW LIES OVER PHASE 1 WITH AMPLITUDE GREATER THAN 1. IT IS EXPECTED TO MOVE EASTWARDS AND REACH NEAR PHASE 2 AROUND 18<sup>TH</sup> MAY 2018. HENCE THE MJO WILL BE FAVOURABLE FOR INTENSIFICATION.

THE MIDDLE AND UPPER LEVEL WINDS INDICATE THAT THE SYSTEM WOULD MOVE INITIALLY WESTWARDS DURING NEXT 12 HOURS AND THEN WEST-SOUTHWESTWARDS ACROSS GULF OF ADEN DURING SUBSEQUENT 24 HRS. UNDER FAVOURABLE SST AND ENVIRONMENTAL CONDITIONS LIKE VERTICAL WIND SHEAR AND UPPER LEVEL DIVERGENCE, THE SYSTEM WOULD INTENSIFY FURTHER DURING NEXT 12 HRS. NWP MODELS ARE IN AGREEMENT WITH ABOVE CONSENSUS.

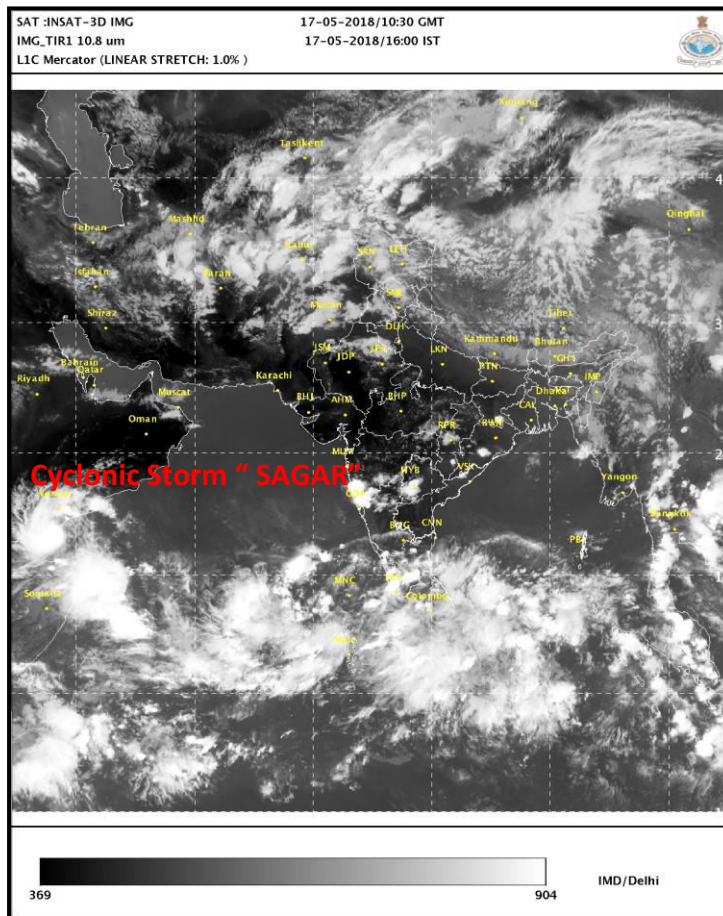
**(NEETHA GOPAL)**  
**SCIENTIST-E, RSMC, NEW DELHI**

**PROBABILITY OF CYCLOGENESIS (FORMATION OF DEPRESSION)**

**NIL: 0%, LOW: 1-25%, FAIR: 26-50%, MODERATE: 51-75% AND HIGH: 76-100%**

**Contact: Phone: (91) 11-24652484 FAX: (91) 11-24623220 e-mail :cwdhq2008@gmail.com**

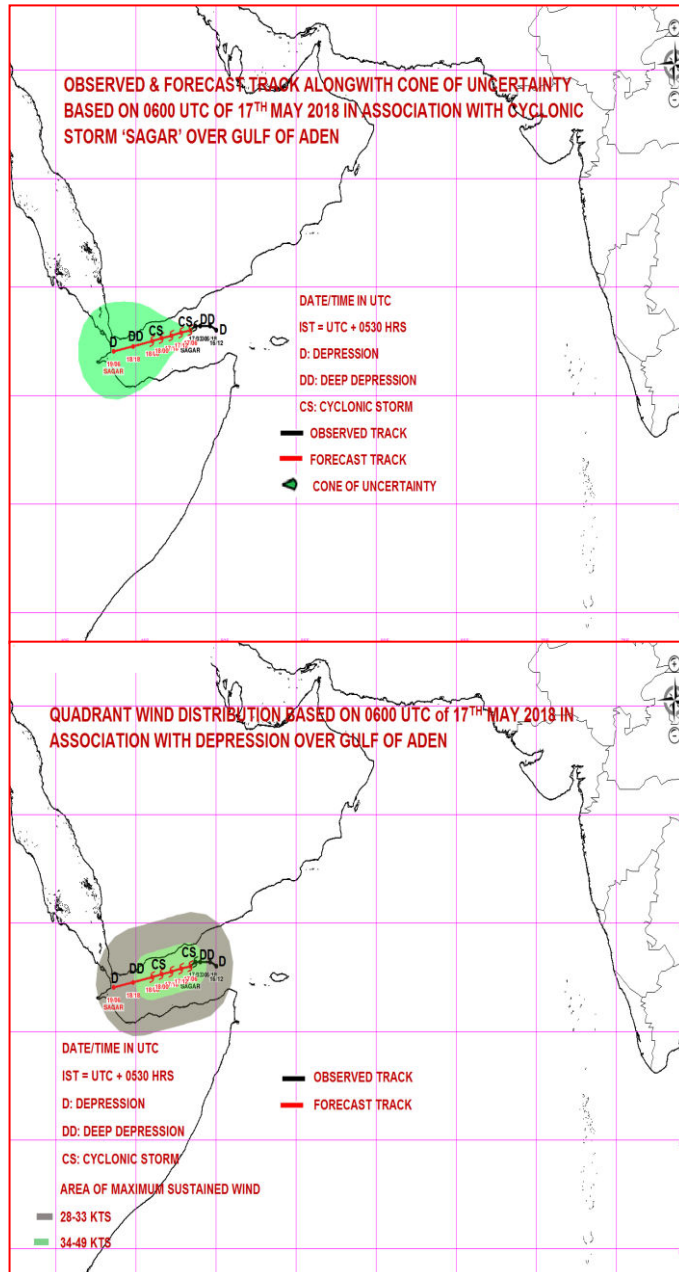




**PROBABILITY OF CYCLOGENESIS (FORMATION OF DEPRESSION)**

**NIL: 0%, LOW: 1-25%, FAIR: 26-50%, MODERATE: 51-75% AND HIGH: 76-100%**

**Contact: Phone: (91) 11-24652484 FAX: (91) 11-24623220 e-mail :cwdhq2008@gmail.com**



# **PROBABILITY OF CYCLOGENESIS (FORMATION OF DEPRESSION)**

**NIL: 0%, LOW: 1-25%, FAIR: 26-50%, MODERATE: 51-75% AND HIGH: 76-100%**

**Contact: Phone: (91) 11-24652484 FAX: (91) 11-24623220 e-mail :cwdhq2008@gmail.com**



**REGIONAL SPECIALISED METEOROLOGICAL CENTRE-TROPICAL CYCLONES, NEW DELHI**  
**TROPICAL CYCLONE ADVISORY BULLETIN**

**FROM: RSMC –TROPICAL CYCLONES, NEW DELHI**

**TO: STORM WARNING CENTRE, NAYPYI TAW (MYANMAR)**

**STORM WARNING CENTRE, BANGKOK (THAILAND)**

**STORM WARNING CENTRE, COLOMBO (SRILANKA)**

**STORM WARNING CENTRE, DHAKA (BANGLADESH)**

**STORM WARNING CENTRE, KARACHI (PAKISTAN)**

**METEOROLOGICAL OFFICE, MALE (MALDIVES)**

**OMAN METEOROLOGICAL DEPARTMENT, MUSCAT(THROUGH RTH JEDDAH)**

**YEMEN METEOROLOGICAL SERVICES, REPUBLIC OF YEMEN (THROUGH RTH JEDDAH)**

**TROPICAL STORM ‘SAGAR’ ADVISORY NO. FOUR ISSUED AT 1400 UTC OF 17<sup>TH</sup> MAY 2018 BASED ON 1200 UTC OF 17<sup>TH</sup> MAY 2018**

THE CYCLONIC STORM “**SAGAR**” OVER GULF OF ADEN MOVED FURTHER WESTWARDS WITH A SPEED OF 5 KMPH DURING PAST 6 HOURS, AND LAY CENTERED AT 1200 UTC OF TODAY, THE 17<sup>TH</sup> MAY 2018 OVER GULF OF ADEN NEAR LATITUDE 13.0°N AND LONGITUDE 48.1° E; ABOUT 330 KM EAST-NORTHEAST OF ADEN (41480) AND 620 KM WEST-NORTHWEST OF SOCOTRA ISLANDS (41494). IT IS VERY LIKELY TO INTENSIFY FURTHER SLIGHTLY DURING NEXT 12 HRS. IT IS VERY LIKELY TO MOVE WEST-SOUTHWESTWARDS.

AS PER THE LATEST SATELLITE IMAGERY, THE INTENSITY OF THE SYSTEM IS T2.5. ASSOCIATED SCATTERED LOW & MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION LIE OVER AREA BETWEEN LATITUDE 12.0°N TO 17.0°N AND LONGITUDE 44.0°E TO 50.0°E GULF OF ADEN AND ADJOINING SAUDI ARABIA AND YEMEN.

THE ESTIMATED CENTRAL PRESSURE IS ABOUT 996 HPA AND THE MAXIMUM SUSTAINED SURFACE WIND SPEED IS 40 KNOTS GUSTING TO 50 KNOTS. STATE OF SEA IS HIGH AROUND THE SYSTEM CENTRE.

DATE/TIME(UTC)	POSITION (LAT. °N/ LONG. °E)	MAXIMUM SUSTAINED SURFACE WIND SPEED (KMPH)	CATEGORY OF CYCLONIC DISTURBANCE
17/1200	13.0/48.1	70-80 GUSTING TO 90	CYCLONIC STORM
17/1800	12.9/47.5	75-85 GUSTING TO 95	CYCLONIC STORM
18/0000	12.7/46.9	75-85 GUSTING TO 95	CYCLONIC STORM
18/0600	12.5/46.3	70-80 GUSTING TO 90	CYCLONIC STORM
18/1200	12.3/45.7	65-75 GUSTING TO 85	CYCLONIC STORM
19/0000	11.8/44.5	55-65 GUSTING TO 75	DEEP DEPRESSION
19/1200	11.3/43.1	45-55 GUSTING TO 65	DEPRESSION

**PROBABILITY OF CYCLOGENESIS (FORMATION OF DEPRESSION)**

**NIL: 0%, LOW: 1-25%, FAIR: 26-50%, MODERATE: 51-75% AND HIGH: 76-100%**

**Contact: Phone: (91) 11-24652484 FAX: (91) 11-24623220 e-mail :cwdhq2008@gmail.com**

**REMARKS:**

THE SEA SURFACE TEMPERATURE (SST) IS 30-32<sup>0</sup> C OVER THE SYSTEM AREA. THE TROPICAL CYCLONE HEAT POTENTIAL IS ABOUT 80-100 KJ/CM<sup>2</sup> OVER THE REGION OF THE SYSTEM. THERE IS A MAXIMA OF VALUE 30X10<sup>-5</sup> S<sup>-1</sup> IN LOW LEVEL CONVERGENCE TO THE WEST OF THE SYSTEM CENTRE. THE UPPER LEVEL DIVERGENCE IS ABOUT 20X10<sup>-5</sup> S<sup>-1</sup> AROUND THE SYSTEM CENTRE. VORTICITY AT 850 HPA LEVEL IS ABOUT 100X10<sup>-6</sup> S<sup>-1</sup> IN THE SOUTH-SOUTHEAST OF THE SYSTEM CENTRE AND IS EXTENDING UPTO 500 HPA LEVEL. VERTICAL WIND SHEAR IS LOW TO MODERATE (10-15 KTS) AROUND THE SYSTEM CENTRE. IT INCREASES TOWARDS YEMEN AND OMAN COASTS. UPPER TROPOSPHERIC RIDGE LIES ALONG LATITUDE 16.0<sup>0</sup>N NEAR LONGITUDE 50<sup>0</sup>E. IT IS FAVOURING POLEWARD OUTFLOW AND HENCE INCREASING THE UPPER LEVEL DIVERGENCE. THE MADDEN JULIAN OSCILLATION (MJO) INDEX NOW LIES OVER PHASE 1 WITH AMPLITUDE GREATER THAN 1. IT IS EXPECTED TO MOVE EASTWARDS AND REACH NEAR PHASE 2 AROUND 18<sup>TH</sup> MAY 2018. HENCE THE MJO WILL BE FAVOURABLE FOR INTENSIFICATION.

THE MIDDLE AND UPPER LEVEL WINDS INDICATE THAT THE SYSTEM WOULD MOVE INITIALLY WESTWARDS DURING NEXT 12 HOURS AND THEN WEST-SOUTHWESTWARDS ACROSS GULF OF ADEN DURING SUBSEQUENT 24 HRS. UNDER FAVOURABLE SST AND ENVIRONMENTAL CONDITIONS LIKE VERTICAL WIND SHEAR AND UPPER LEVEL DIVERGENCE, THE SYSTEM WOULD INTENSIFY FURTHER DURING NEXT 12 HRS. NWP MODELS ARE IN AGREEMENT WITH ABOVE CONSENSUS.

**(NARESH KUMAR)**  
**SCIENTIST-E, RSMC, NEW DELHI**

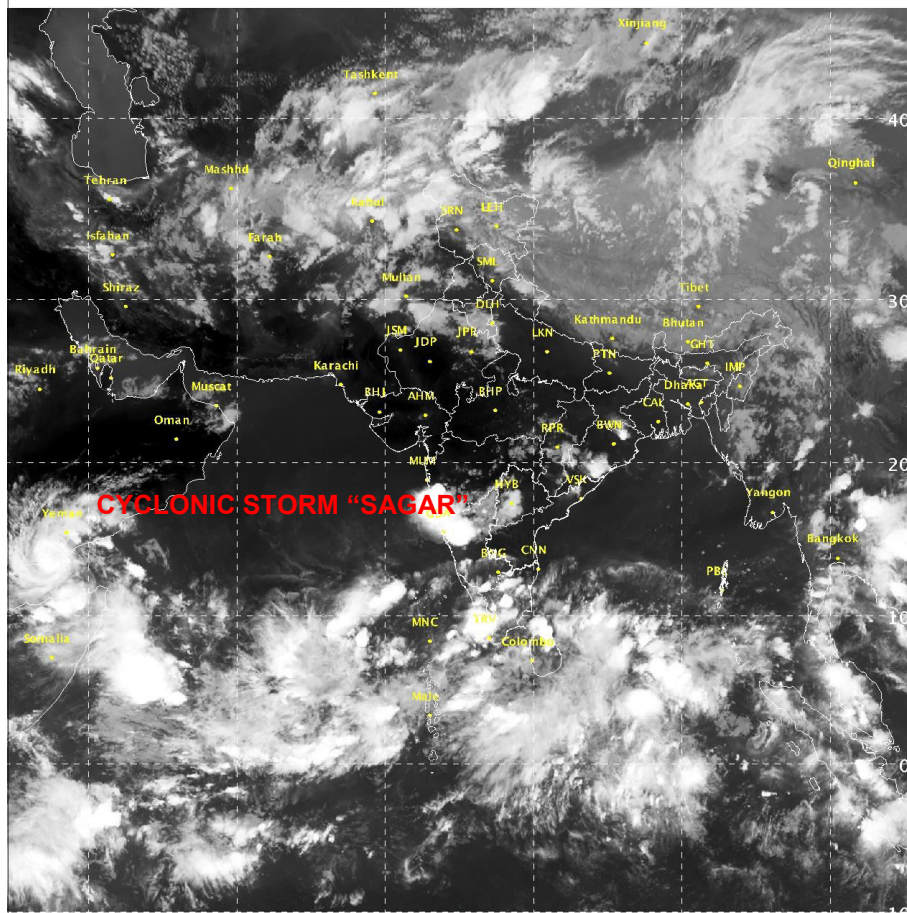
**PROBABILITY OF CYCLOGENESIS (FORMATION OF DEPRESSION)**

**NIL: 0%, LOW: 1-25%, FAIR: 26-50%, MODERATE: 51-75% AND HIGH: 76-100%**

**Contact: Phone: (91) 11-24652484 FAX: (91) 11-24623220 e-mail :cwdhq2008@gmail.com**

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17-05-2018/13:00 GMT  
17-05-2018/18:30 IST



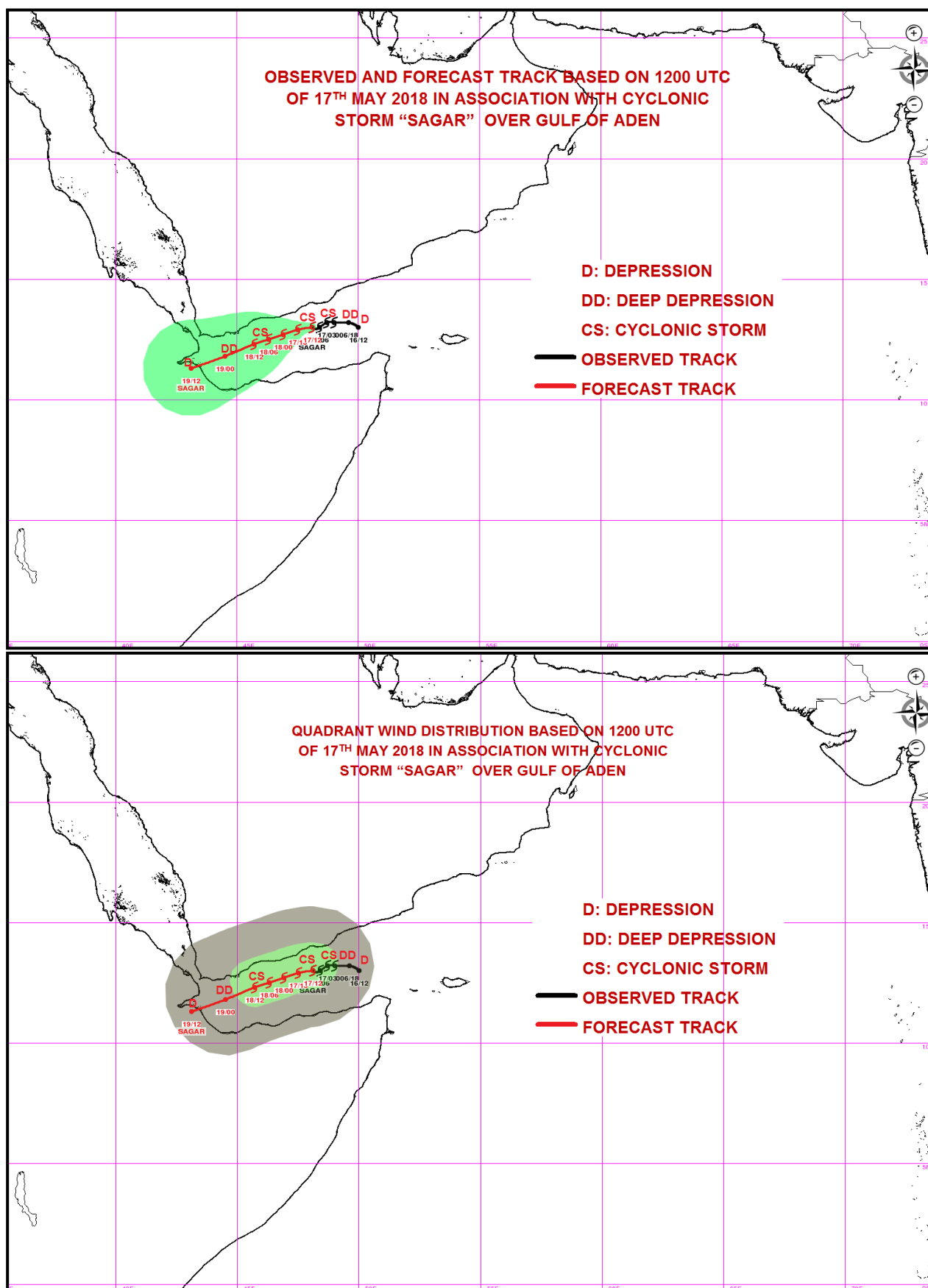
IMD/Delhi

**PROBABILITY OF CYCLOGENESIS (FORMATION OF DEPRESSION)**

**NIL: 0%, LOW: 1-25%, FAIR: 26-50%, MODERATE: 51-75% AND HIGH: 76-100%**

**Contact: Phone: (91) 11-24652484 FAX: (91) 11-24623220 e-mail :cwdhq2008@gmail.com**





**PROBABILITY OF CYCLOGENESIS (FORMATION OF DEPRESSION)**

**NIL: 0%, LOW: 1-25%, FAIR: 26-50%, MODERATE: 51-75% AND HIGH: 76-100%**

**Contact: Phone: (91) 11-24652484 FAX: (91) 11-24623220 e-mail :cwdhq2008@gmail.com**

**PROBABILITY OF CYCLOGENESIS (FORMATION OF DEPRESSION)**

**NIL: 0%, LOW: 1-25%, FAIR: 26-50%, MODERATE: 51-75% AND HIGH: 76-100%**

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**Contact: Phone: (91) 11-24652484 FAX: (91) 11-24623220 e-mail :cwdhq2008@gmail.com**



**REGIONAL SPECIALISED METEOROLOGICAL CENTRE-TROPICAL CYCLONES, NEW DELHI**  
**TROPICAL CYCLONE ADVISORY BULLETIN**

**FROM: RSMC –TROPICAL CYCLONES, NEW DELHI**  
**TO: STORM WARNING CENTRE, NAYPYI TAW (MYANMAR)**  
**STORM WARNING CENTRE, BANGKOK (THAILAND)**  
**STORM WARNING CENTRE, COLOMBO (SRILANKA)**  
**STORM WARNING CENTRE, DHAKA (BANGLADESH)**  
**STORM WARNING CENTRE, KARACHI (PAKISTAN)**  
**METEOROLOGICAL OFFICE, MALE (MALDIVES)**  
**OMAN METEOROLOGICAL DEPARTMENT, MUSCAT(THROUGH RTH JEDDAH)**  
**YEMEN METEOROLOGICAL SERVICES, REPUBLIC OF YEMEN (THROUGH RTH JEDDAH)**

**TROPICAL STORM ‘SAGAR’ ADVISORY NO. FIVE ISSUED AT 1700 UTC OF 17<sup>TH</sup> MAY 2018 BASED ON 1500 UTC OF 17<sup>TH</sup> MAY 2018**

THE CYCLONIC STORM “SAGAR” OVER GULF OF ADEN MOVED FURTHER WESTWARDS WITH A SPEED OF 9 KMPH DURING PAST 6 HOURS, AND LAY CENTERED AT 1500 UTC OF TODAY, THE 17<sup>TH</sup> MAY 2018 OVER GULF OF ADEN NEAR LATITUDE 13.0°N AND LONGITUDE 47.8°E; ABOUT 300 KM EAST-NORTHEAST OF ADEN (41480) AND 660 KM WEST-NORTHWEST OF SOCOTRA ISLANDS (41494). IT IS VERY LIKELY TO INTENSIFY FURTHER SLIGHTLY DURING NEXT 12 HRS. IT IS VERY LIKELY TO MOVE WEST-SOUTHWESTWARDS THEREAFTER.

AS PER THE LATEST SATELLITE IMAGERY, THE INTENSITY OF THE SYSTEM IS T2.5. ASSOCIATED SCATTERED LOW & MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION LIE OVER AREA BETWEEN LATITUDE 11.0°N TO 16.0°N AND LONGITUDE 44.0°E TO 50.0°E GULF OF ADEN (YEMEN) AND ADJOINING SAUDI ARABIA AND NORTH SOMALIA (MIN CTT MINUS 90° C.

THE ESTIMATED CENTRAL PRESSURE IS ABOUT 996 HPA AND THE MAXIMUM SUSTAINED SURFACE WIND SPEED IS 40 KNOTS GUSTING TO 50 KNOTS. STATE OF SEA IS HIGH AROUND THE SYSTEM CENTRE.

DATE/TIME(UTC)	POSITION (LAT. °N/ LONG. °E)	MAXIMUM SUSTAINED SURFACE WIND SPEED (KMPH)	CATEGORY OF CYCLONIC DISTURBANCE
17/1500	13.0/47.8	70-80 GUSTING TO 90	CYCLONIC STORM
17/1800	12.9/47.5	75-85 GUSTING TO 95	CYCLONIC STORM
18/0000	12.7/46.9	75-85 GUSTING TO 95	CYCLONIC STORM
18/0600	12.5/46.3	70-80 GUSTING TO 90	CYCLONIC STORM
18/1200	12.3/45.7	65-75 GUSTING TO 85	CYCLONIC STORM
19/0000	11.8/44.5	55-65 GUSTING TO 75	DEEP DEPRESSION
19/1200	11.3/43.1	45-55 GUSTING TO 65	DEPRESSION

**PROBABILITY OF CYCLOGENESIS (FORMATION OF DEPRESSION)**

**NIL: 0%, LOW: 1-25%, FAIR: 26-50%, MODERATE: 51-75% AND HIGH: 76-100%**

**Contact: Phone: (91) 11-24652484 FAX: (91) 11-24623220 e-mail :cwdhq2008@gmail.com**

**REMARKS:**

THE SEA SURFACE TEMPERATURE (SST) IS 30-32<sup>0</sup> C OVER THE SYSTEM AREA. THE TROPICAL CYCLONE HEAT POTENTIAL IS ABOUT 80-100 KJ/CM<sup>2</sup> OVER THE REGION OF THE SYSTEM. THERE IS A MAXIMA OF VALUE 20X10<sup>-5</sup> S<sup>-1</sup> IN LOW LEVEL CONVERGENCE TO THE SOUTH OF THE SYSTEM CENTRE. THE UPPER LEVEL DIVERGENCE IS ABOUT 10X10<sup>-5</sup> S<sup>-1</sup> AROUND THE SYSTEM CENTRE. VORTICITY AT 850 HPA LEVEL IS ABOUT 75X10<sup>-6</sup> S<sup>-1</sup> IN THE SOUTH-SOUTHEAST OF THE SYSTEM CENTRE AND IS EXTENDING UPTO 500 HPA LEVEL. VERTICAL WIND SHEAR IS LOW TO MODERATE (10-15 KTS) AROUND THE SYSTEM CENTRE. IT INCREASES TOWARDS YEMEN AND OMAN COASTS. UPPER TROPOSPHERIC RIDGE LIES ALONG LATITUDE 16.0<sup>0</sup>N NEAR LONGITUDE 50<sup>0</sup>E. IT IS FAVOURING POLEWARD OUTFLOW AND HENCE INCREASING THE UPPER LEVEL DIVERGENCE. THE MADDEN JULIAN OSCILLATION (MJO) INDEX NOW LIES OVER PHASE 1 WITH AMPLITUDE GREATER THAN 1. IT IS EXPECTED TO MOVE EASTWARDS AND REACH NEAR PHASE 2 AROUND 18<sup>TH</sup> MAY 2018. HENCE THE MJO WILL BE FAVOURABLE FOR INTENSIFICATION.

THE MIDDLE AND UPPER LEVEL WINDS INDICATE THAT THE SYSTEM WOULD MOVE INITIALLY WESTWARDS DURING NEXT 12 HOURS AND THEN WEST-SOUTHWESTWARDS ACROSS GULF OF ADEN DURING SUBSEQUENT 24 HRS. UNDER FAVOURABLE SST AND ENVIRONMENTAL CONDITIONS LIKE VERTICAL WIND SHEAR AND UPPER LEVEL DIVERGENCE.

(D JOARDAR)  
SCIENTIST-E, RSMC, NEW DELHI

NEXT BULLETIN TO BE ISSUED AT 1800 UTC OF TODAY.

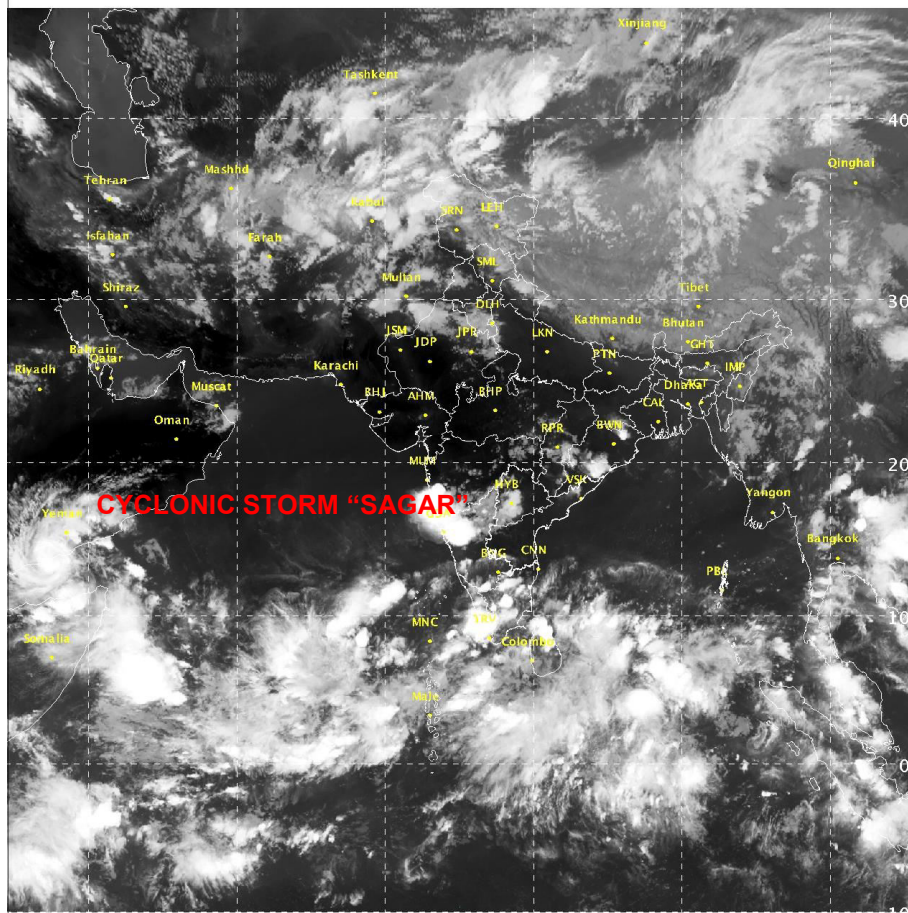
**PROBABILITY OF CYCLOGENESIS (FORMATION OF DEPRESSION)**

**NIL: 0%, LOW: 1-25%, FAIR: 26-50%, MODERATE: 51-75% AND HIGH: 76-100%**

**Contact: Phone: (91) 11-24652484 FAX: (91) 11-24623220 e-mail :cwdhq2008@gmail.com**

SAT :INSAT-3D IMG  
IMG\_TIR1 10.8 um  
L1C Mercator (LINEAR STRETCH: 1.0% )

17-05-2018/13:00 GMT  
17-05-2018/18:30 IST



IMD/Delhi

**PROBABILITY OF CYCLOGENESIS (FORMATION OF DEPRESSION)**

**NIL: 0%, LOW: 1-25%, FAIR: 26-50%, MODERATE: 51-75% AND HIGH: 76-100%**

**Contact: Phone: (91) 11-24652484 FAX: (91) 11-24623220 e-mail :cwdhq2008@gmail.com**



**REGIONAL SPECIALISED METEOROLOGICAL CENTRE-TROPICAL CYCLONES, NEW DELHI**  
**TROPICAL CYCLONE ADVISORY BULLETIN**

**FROM: RSMC –TROPICAL CYCLONES, NEW DELHI**  
**TO: STORM WARNING CENTRE, NAYPYI TAW (MYANMAR)**  
**STORM WARNING CENTRE, BANGKOK (THAILAND)**  
**STORM WARNING CENTRE, COLOMBO (SRILANKA)**  
**STORM WARNING CENTRE, DHAKA (BANGLADESH)**  
**STORM WARNING CENTRE, KARACHI (PAKISTAN)**  
**METEOROLOGICAL OFFICE, MALE (MALDIVES)**  
**OMAN METEOROLOGICAL DEPARTMENT, MUSCAT(THROUGH RTH JEDDAH)**  
**YEMEN METEOROLOGICAL SERVICES, REPUBLIC OF YEMEN (THROUGH RTH JEDDAH)**

**TROPICAL STORM ‘SAGAR’ ADVISORY NO. SIX ISSUED AT 2100 UTC OF 17<sup>TH</sup> MAY 2018 BASED ON 1800 UTC OF 17<sup>TH</sup> MAY 2018**

THE CYCLONIC STORM “SAGAR” OVER GULF OF ADEN MOVED FURTHER WESTWARDS WITH A SPEED OF 7 KMPH DURING PAST 6 HOURS, AND LAY CENTERED AT 1800 UTC OF TODAY, THE 17<sup>TH</sup> MAY 2018 OVER GULF OF ADEN NEAR LATITUDE 12.8°N AND LONGITUDE 47.5°E; ABOUT 270 KM EAST-NORTHEAST OF ADEN (41480) AND 690 KM WEST-NORTHWEST OF SOCOTRA ISLANDS (41494). IT IS VERY LIKELY TO INTENSIFY FURTHER SLIGHTLY DURING NEXT 12 HRS. IT IS VERY LIKELY TO MOVE WEST-SOUTHWESTWARDS THEREAFTER.

AS PER THE LATEST SATELLITE IMAGERY, THE INTENSITY OF THE SYSTEM IS T2.5. ASSOCIATED SCATTERED LOW & MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION LIE OVER AREA BETWEEN LATITUDE 11.0°N TO 16.0°N AND LONGITUDE 44.0°E TO 50.0°E GULF OF ADEN (YEMEN) AND ADJOINING SAUDI ARABIA AND NORTH SOMALIA (MIN CTT MINUS 93° C).

THE ESTIMATED CENTRAL PRESSURE IS ABOUT 996 HPA AND THE MAXIMUM SUSTAINED SURFACE WIND SPEED IS 40 KNOTS GUSTING TO 50 KNOTS. STATE OF SEA IS HIGH AROUND THE SYSTEM CENTRE.

DATE/TIME(UTC)	POSITION (LAT. °N/ LONG. °E)	MAXIMUM SUSTAINED SURFACE WIND SPEED (KMPH)	CATEGORY OF CYCLONIC DISTURBANCE
17/1800	12.8/47.5	70-80 GUSTING TO 90	CYCLONIC STORM
18/0000	12.6/46.6	75-85 GUSTING TO 95	CYCLONIC STORM
18/0600	12.4/46.0	75-85 GUSTING TO 95	CYCLONIC STORM
18/1200	12.2/45.4	70-80 GUSTING TO 90	CYCLONIC STORM
18/1800	11.8/44.6	55-65 GUSTING TO 75	DEEP DEPRESSION
19/0600	11.2/42.9	35-45 GUSTING TO 55	DEPRESSION

**PROBABILITY OF CYCLOGENESIS (FORMATION OF DEPRESSION)**

**NIL: 0%, LOW: 1-25%, FAIR: 26-50%, MODERATE: 51-75% AND HIGH: 76-100%**

**Contact: Phone: (91) 11-24652484 FAX: (91) 11-24623220 e-mail :cwdhq2008@gmail.com**



**REMARKS:**

THE SEA SURFACE TEMPERATURE (SST) IS 30-32° C OVER THE SYSTEM AREA. THE TROPICAL CYCLONE HEAT POTENTIAL IS ABOUT 80-100 KJ/CM<sup>2</sup> OVER THE REGION OF THE SYSTEM. THERE IS A MAXIMA OF VALUE 20-30 X10<sup>-5</sup> S<sup>-1</sup> IN LOW LEVEL CONVERGENCE TO THE SOUTH OF THE SYSTEM CENTRE. THE UPPER LEVEL DIVERGENCE IS ABOUT 05-10 X10<sup>-5</sup> S<sup>-1</sup> AROUND THE SYSTEM CENTRE. VORTICITY AT 850 HPA LEVEL IS ABOUT 80X10<sup>-6</sup> S<sup>-1</sup> IN THE SOUTH-SOUTHEAST OF THE SYSTEM CENTRE AND IS EXTENDING UPTO 500 HPA LEVEL. VERTICAL WIND SHEAR IS LOW TO MODERATE (10-15 KTS) AROUND THE SYSTEM CENTRE. IT INCREASES TOWARDS YEMEN AND OMAN COASTS. UPPER TROPOSPHERIC RIDGE LIES ALONG LATITUDE 16.0°N NEAR LONGITUDE 50°E. IT IS FAVOURING POLEWARD OUTFLOW AND HENCE INCREASING THE UPPER LEVEL DIVERGENCE. THE MADDEN JULIAN OSCILLATION (MJO) INDEX NOW LIES OVER PHASE 1 WITH AMPLITUDE GREATER THAN 1. IT IS EXPECTED TO MOVE EASTWARDS AND REACH NEAR PHASE 2. HENCE THE MJO WILL BE FAVOURABLE FOR INTENSIFICATION.

THE MIDDLE AND UPPER LEVEL WINDS INDICATE THAT THE SYSTEM WOULD MOVE INITIALLY WESTWARDS DURING NEXT 12 HOURS AND THEN WEST-SOUTHWESTWARDS ACROSS GULF OF ADEN DURING SUBSEQUENT 24 HRS. UNDER FAVOURABLE SST AND ENVIRONMENTAL CONDITIONS LIKE VERTICAL WIND SHEAR AND UPPER LEVEL DIVERGENCE.

(D JOARDAR)  
SCIENTIST-E, RSMC, NEW DELHI

NEXT BULLETIN WILL BE ISSUED AT 0000 UTC OF 18<sup>TH</sup> MAY 2018.

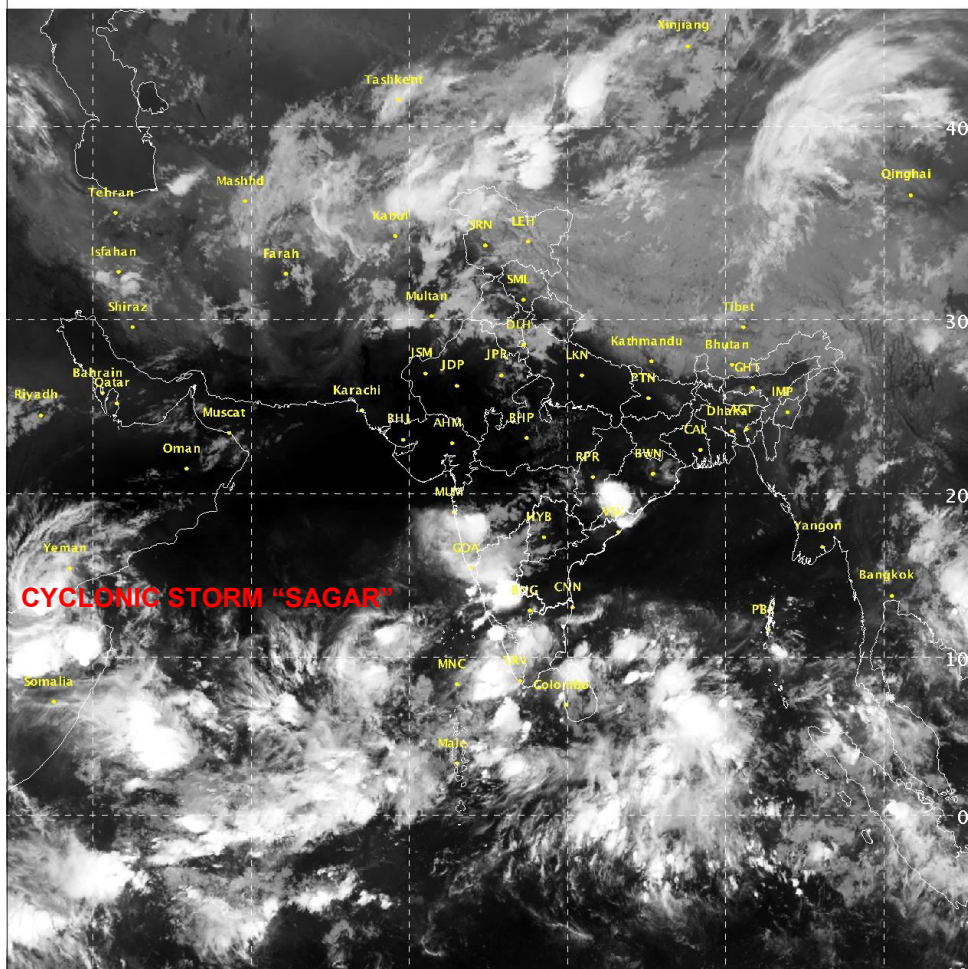
**PROBABILITY OF CYCLOGENESIS (FORMATION OF DEPRESSION)**

NIL: 0%, LOW: 1-25%, FAIR: 26-50%, MODERATE: 51-75% AND HIGH: 76-100%

Contact: Phone: (91) 11-24652484 FAX: (91) 11-24623220 e-mail :cwdhq2008@gmail.com

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17-05-2018/17:00 GMT  
17-05-2018/22:30 IST



IMD/Delhi

**PROBABILITY OF CYCLOGENESIS (FORMATION OF DEPRESSION)**

**NIL: 0%, LOW: 1-25%, FAIR: 26-50%, MODERATE: 51-75% AND HIGH: 76-100%**

**Contact: Phone: (91) 11-24652484 FAX: (91) 11-24623220 e-mail :cwdhq2008@gmail.com**



**REGIONAL SPECIALISED METEOROLOGICAL CENTRE-TROPICAL CYCLONES, NEW DELHI**  
**TROPICAL CYCLONE ADVISORY BULLETIN**

**FROM: RSMC –TROPICAL CYCLONES, NEW DELHI**  
**TO: STORM WARNING CENTRE, NAYPYI TAW (MYANMAR)**  
**STORM WARNING CENTRE, BANGKOK (THAILAND)**  
**STORM WARNING CENTRE, COLOMBO (SRILANKA)**  
**STORM WARNING CENTRE, DHAKA (BANGLADESH)**  
**STORM WARNING CENTRE, KARACHI (PAKISTAN)**  
**METEOROLOGICAL OFFICE, MALE (MALDIVES)**  
**OMAN METEOROLOGICAL DEPARTMENT, MUSCAT(THROUGH RTH JEDDAH)**  
**YEMEN METEOROLOGICAL SERVICES, REPUBLIC OF YEMEN (THROUGH RTH JEDDAH)**

**TROPICAL STORM ‘SAGAR’ ADVISORY NO. SEVEN ISSUED AT 2300 UTC OF 17<sup>TH</sup> MAY 2018**  
**BASED ON 2100 UTC OF 17<sup>TH</sup> MAY 2018**

THE CYCLONIC STORM “SAGAR” OVER GULF OF ADEN MOVED FURTHER WESTWARDS WITH A SPEED OF 12 KMPH DURING PAST 3 HOURS, AND LAY CENTERED AT 2100 UTC OF TODAY, THE 17<sup>TH</sup> MAY 2018 OVER GULF OF ADEN NEAR LATITUDE 12.7°N AND LONGITUDE 47.2°E; ABOUT 230 KM EAST-SOUTHEAST OF ADEN (41480) AND 720 KM WEST-NORTHWEST OF SOCOTRA ISLANDS (41494). IT IS VERY LIKELY TO INTENSIFY FURTHER SLIGHTLY DURING NEXT 12 HRS. IT IS VERY LIKELY TO MOVE WEST-SOUTHWESTWARDS THEREAFTER.

AS PER THE LATEST SATELLITE IMAGERY, THE INTENSITY OF THE SYSTEM IS T2.5. ASSOCIATED SCATTERED LOW & MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION LIE OVER AREA BETWEEN LATITUDE 11.0°N TO 14.0°N AND LONGITUDE 43.0°E TO 50.0°E GULF OF ADEN (YEMEN) AND ADJOINING SAUDI ARABIA AND NORTH SOMALIA (MIN CTT MINUS 93° C).

THE ESTIMATED CENTRAL PRESSURE IS ABOUT 996 HPA AND THE MAXIMUM SUSTAINED SURFACE WIND SPEED IS 40 KNOTS GUSTING TO 50 KNOTS. STATE OF SEA IS HIGH AROUND THE SYSTEM CENTRE.

DATE/TIME(UTC)	POSITION (LAT. °N/ LONG. °E)	MAXIMUM SUSTAINED SURFACE WIND SPEED (KMPH)	CATEGORY OF CYCLONIC DISTURBANCE
17/2100	12.7/47.2	70-80 GUSTING TO 90	CYCLONIC STORM
18/0000	12.6/46.6	75-85 GUSTING TO 95	CYCLONIC STORM
18/0600	12.4/46.0	75-85 GUSTING TO 95	CYCLONIC STORM
18/1200	12.2/45.4	70-80 GUSTING TO 90	CYCLONIC STORM
18/1800	11.8/44.6	55-65 GUSTING TO 75	DEEP DEPRESSION
19/0600	11.2/42.9	35-45 GUSTING TO 55	DEPRESSION

**REMARKS:**

**PROBABILITY OF CYCLOGENESIS (FORMATION OF DEPRESSION)**

**NIL: 0%, LOW: 1-25%, FAIR: 26-50%, MODERATE: 51-75% AND HIGH: 76-100%**

**Contact: Phone: (91) 11-24652484 FAX: (91) 11-24623220 e-mail :cwdhq2008@gmail.com**

THE SEA SURFACE TEMPERATURE (SST) IS 30-32<sup>0</sup> C OVER THE SYSTEM AREA. THE TROPICAL CYCLONE HEAT POTENTIAL IS ABOUT 80-100 KJ/CM<sup>2</sup> OVER THE REGION OF THE SYSTEM. THERE IS A MAXIMA OF VALUE 20-30 X10<sup>-5</sup> S<sup>-1</sup> IN LOW LEVEL CONVERGENCE TO THE SOUTH OF THE SYSTEM CENTRE. THE UPPER LEVEL DIVERGENCE IS ABOUT 05-10 X10<sup>-5</sup> S<sup>-1</sup> AROUND THE SYSTEM CENTRE. VORTICITY AT 850 HPA LEVEL IS ABOUT 80X10<sup>-6</sup> S<sup>-1</sup> IN THE SOUTH-SOUTHEAST OF THE SYSTEM CENTRE AND IS EXTENDING UPTO 500 HPA LEVEL. VERTICAL WIND SHEAR IS LOW TO MODERATE (10-15 KTS) AROUND THE SYSTEM CENTRE. IT INCREASES TOWARDS YEMEN AND OMAN COASTS. UPPER TROPOSPHERIC RIDGE LIES ALONG LATITUDE 16.0<sup>0</sup>N NEAR LONGITUDE 50<sup>0</sup>E. IT IS FAVOURING POLEWARD OUTFLOW AND HENCE INCREASING THE UPPER LEVEL DIVERGENCE. THE MADDEN JULIAN OSCILLATION (MJO) INDEX NOW LIES OVER PHASE 1 WITH AMPLITUDE GREATER THAN 1. IT IS EXPECTED TO MOVE EASTWARDS AND REACH NEAR PHASE 2. HENCE THE MJO WILL BE FAVOURABLE FOR INTENSIFICATION.

THE MIDDLE AND UPPER LEVEL WINDS INDICATE THAT THE SYSTEM WOULD MOVE INITIALLY WESTWARDS DURING NEXT 12 HOURS AND THEN WEST-SOUTHWESTWARDS ACROSS GULF OF ADEN DURING SUBSEQUENT 24 HRS. UNDER FAVOURABLE SST AND ENVIRONMENTAL CONDITIONS LIKE VERTICAL WIND SHEAR AND UPPER LEVEL DIVERGENCE.

**(D JOARDAR)**  
**SCIENTIST-E, RSMC, NEW DELHI**

NEXT BULLETIN WILL BE ISSUED AT 0300 UTC OF 18<sup>TH</sup> MAY 2018.

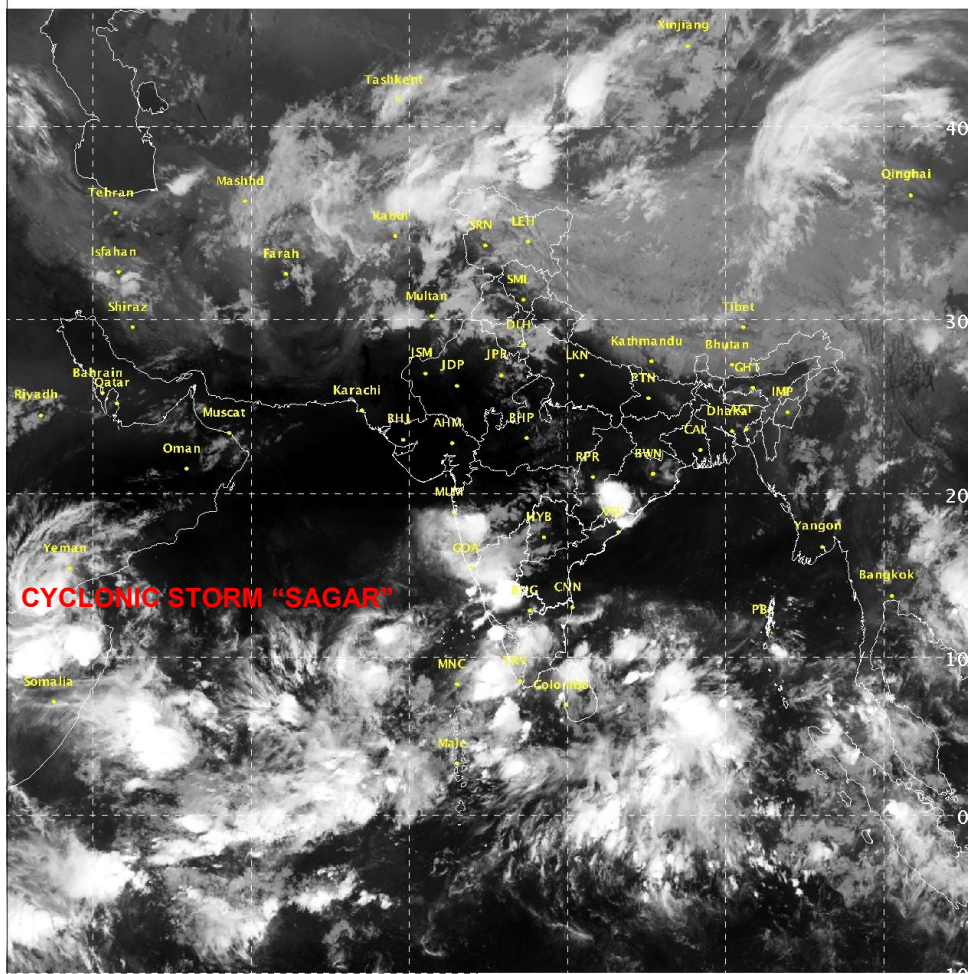
**PROBABILITY OF CYCLOGENESIS (FORMATION OF DEPRESSION)**

**NIL: 0%, LOW: 1-25%, FAIR: 26-50%, MODERATE: 51-75% AND HIGH: 76-100%**

**Contact: Phone: (91) 11-24652484 FAX: (91) 11-24623220 e-mail :cwdhq2008@gmail.com**

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17-05-2018/17:00 GMT  
17-05-2018/22:30 IST



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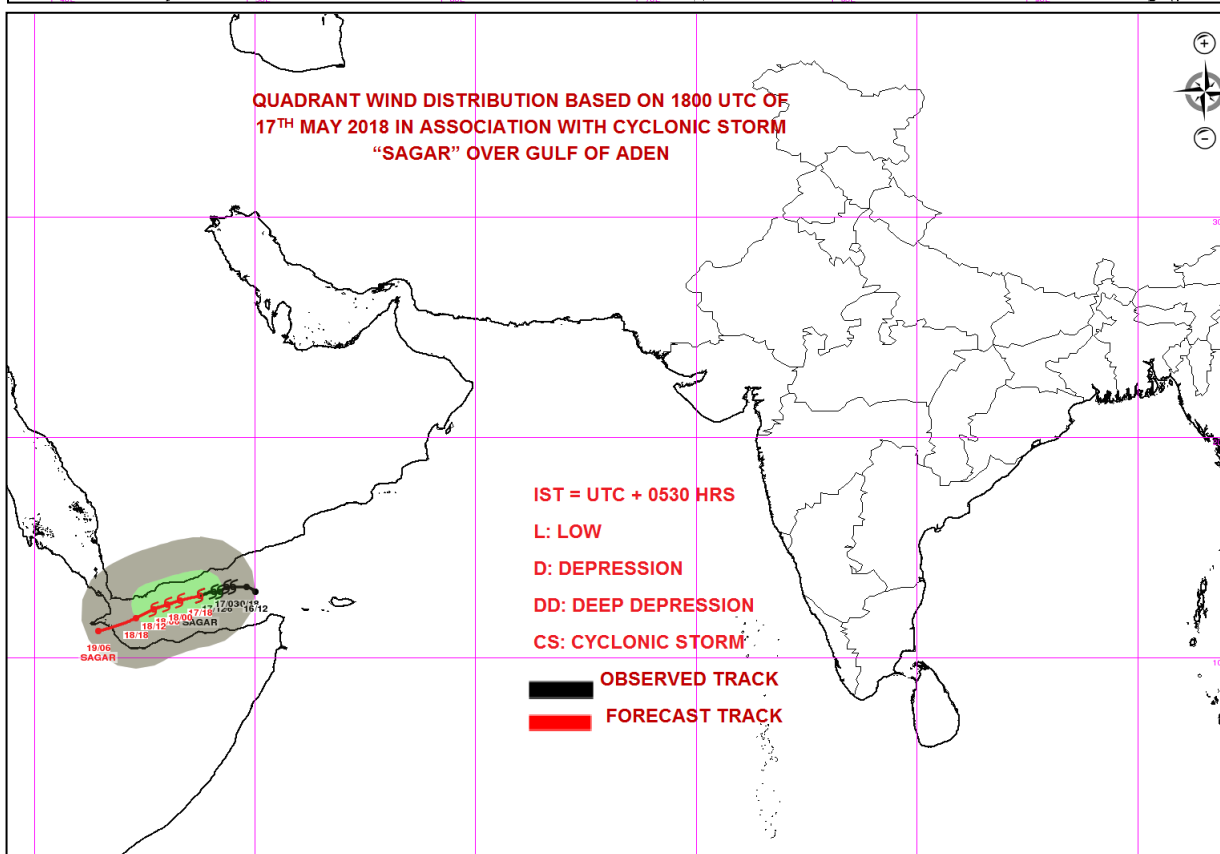
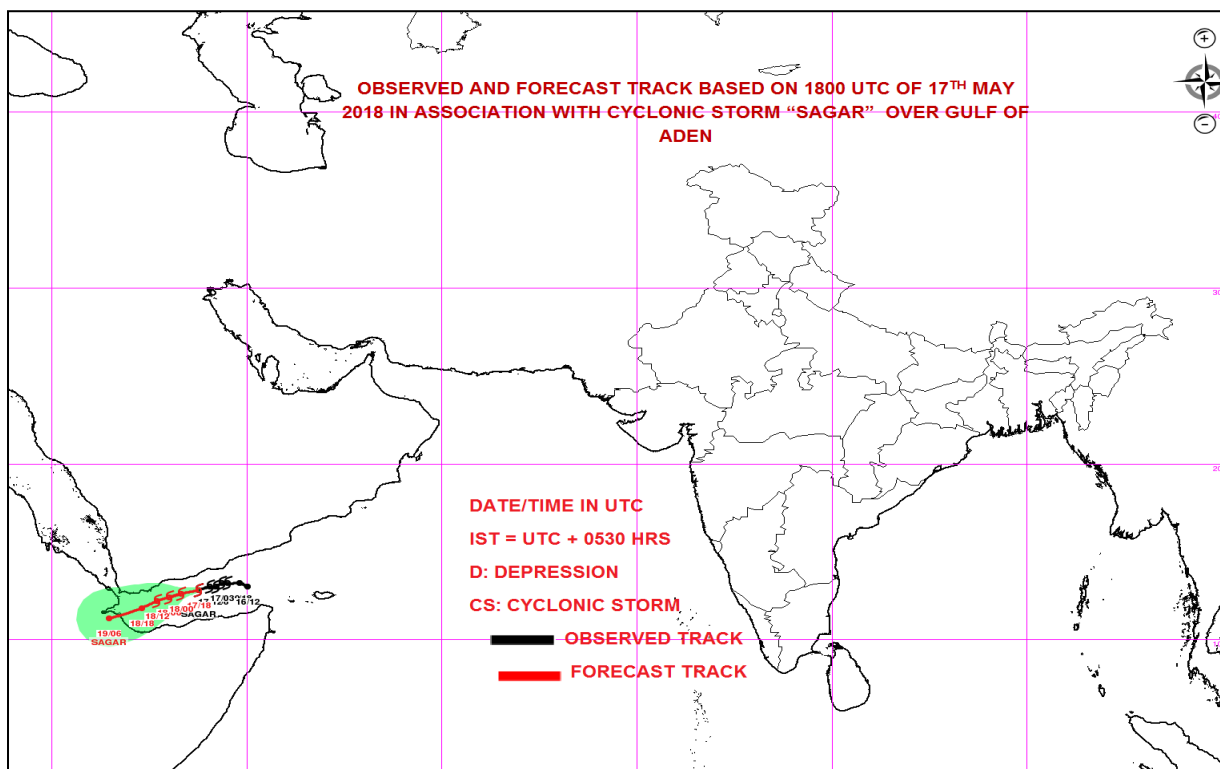
IMD/Delhi

#### PROBABILITY OF CYCLOGENESIS (FORMATION OF DEPRESSION)

NIL: 0%, LOW: 1-25%, FAIR: 26-50%, MODERATE: 51-75% AND HIGH: 76-100%

Contact: Phone: (91) 11-24652484 FAX: (91) 11-24623220 e-mail :cwdhq2008@gmail.com





**PROBABILITY OF CYCLOGENESIS (FORMATION OF DEPRESSION)**

NIL: 0%, LOW: 1-25%, FAIR: 26-50%, MODERATE: 51-75% AND HIGH: 76-100%

Contact: Phone: (91) 11-24652484 FAX: (91) 11-24623220 e-mail :cwdhq2008@gmail.com





**REGIONAL SPECIALISED METEOROLOGICAL CENTRE-TROPICAL CYCLONES, NEW DELHI**  
**TROPICAL CYCLONE ADVISORY BULLETIN**

**FROM: RSMC –TROPICAL CYCLONES, NEW DELHI**  
**TO: STORM WARNING CENTRE, NAYPYI TAW (MYANMAR)**  
**STORM WARNING CENTRE, BANGKOK (THAILAND)**  
**STORM WARNING CENTRE, COLOMBO (SRILANKA)**  
**STORM WARNING CENTRE, DHAKA (BANGLADESH)**  
**STORM WARNING CENTRE, KARACHI (PAKISTAN)**  
**METEOROLOGICAL OFFICE, MALE (MALDIVES)**  
**OMAN METEOROLOGICAL DEPARTMENT, MUSCAT(THROUGH RTH JEDDAH)**  
**YEMEN METEOROLOGICAL SERVICES, REPUBLIC OF YEMEN (THROUGH RTH JEDDAH)**

**TROPICAL STORM 'SAGAR' ADVISORY NO. EIGHT ISSUED AT 0200 UTC OF 18<sup>TH</sup> MAY 2018**  
**BASED ON 0000 UTC OF 18<sup>TH</sup> MAY 2018**

THE CYCLONIC STORM "SAGAR" OVER GULF OF ADEN MOVED FURTHER WEST-SOUTHWESTWARDS WITH A SPEED OF 18 KMPH DURING PAST 6 HOURS, AND LAY CENTERED AT 0530 HRS IST OF 18<sup>TH</sup> MAY 2018 OVER GULF OF ADEN NEAR LATITUDE 12.4<sup>0</sup>N AND LONGITUDE 46.6<sup>0</sup>E; ABOUT 170 KM EAST-SOUTHEAST OF ADEN (YEMEN) AND 790 KM WEST-SOUTHWEST OF SOCOTRA ISLANDS. IT IS VERY LIKELY TO MOVE WEST-SOUTHWESTWARDS AND WEAKEN GRADUALLY AFTER 12 HRS AND CROSS SOMALIA COAST NEAR ABOUT LONGITUDE 44<sup>0</sup>E AROUND 0600 UTC OF 19<sup>TH</sup> MAY 2018 AS A CYCLONIC STORM WITH WIND SPEED OF 65-75 KMPH GUSTING TO 85 KMPH.

AS PER THE LATEST SATELLITE IMAGERY, THE INTENSITY OF THE SYSTEM IS T2.5. ASSOCIATED SCATTERED LOW & MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION LIE OVER AREA BETWEEN LATTITUDE 11.0<sup>0</sup>N TO 14.0<sup>0</sup>N AND LONGITUDE 43.0<sup>0</sup>E TO 50.0<sup>0</sup>E GULF OF ADEN (YEMEN) AND ADJOINING SAUDI ARABIA AND NORTH SOMALIA (MIN CTT MINUS 93<sup>0</sup> C).

THE ESTIMATED CENTRAL PRESSURE IS ABOUT 996 HPA AND THE MAXIMUM SUSTAINED SURFACE WIND SPEED IS 45 KNOTS GUSTING TO 55 KNOTS. STATE OF SEA IS HIGH TO VERY HIGH AROUND THE SYSTEM CENTRE.

DATE/TIME(UTC)	POSITION (LAT. °N/ LONG. °E)	MAXIMUM SUSTAINED SURFACE WIND SPEED (KMPH)	CATEGORY OF CYCLONIC DISTURBANCE
18/0000	12.4/46.6	75-85 GUSTING TO 95	CYCLONIC STORM
18/0600	12.1/46.0	75-85 GUSTING TO 95	CYCLONIC STORM
18/1200	11.8//45.4	70-80 GUSTING TO 90	CYCLONIC STORM
18/1800	11.5/44.8	70-80 GUSTING TO 90	CYCLONIC STORM
19/0000	11.2/44.3	65-75 GUSTING TO 85	CYCLONIC STORM
19/0600	10.6/43.2	55-65 GUSTING TO 75	DEEP DEPRESSION

**PROBABILITY OF CYCLOGENESIS (FORMATION OF DEPRESSION)**

**NIL: 0%, LOW: 1-25%, FAIR: 26-50%, MODERATE: 51-75% AND HIGH: 76-100%**

**Contact: Phone: (91) 11-24652484 FAX: (91) 11-24623220 e-mail :cwdhq2008@gmail.com**

**REMARKS:**

THE SEA SURFACE TEMPERATURE (SST) IS 30-32<sup>0</sup> C OVER THE SYSTEM AREA. THE TROPICAL CYCLONE HEAT POTENTIAL IS ABOUT 50 KJ/CM<sup>2</sup> OVER THE REGION OF THE SYSTEM. THERE IS A MAXIMA OF VALUE 30 X10<sup>-5</sup> S<sup>-1</sup> IN LOW LEVEL CONVERGENCE TO THE SOUTHWEST OF THE SYSTEM CENTRE. THE UPPER LEVEL DIVERGENCE IS ABOUT 05-10 X10<sup>-5</sup> S<sup>-1</sup> AROUND THE SYSTEM CENTRE. VORTICITY AT 850 HPA LEVEL IS ABOUT 100X10<sup>-6</sup> S<sup>-1</sup> AROUND THE SYSTEM CENTRE. VERTICAL WIND SHEAR IS LOW TO MODERATE (10-15 KTS) AROUND THE SYSTEM CENTRE. IT INCREASES TOWARDS YEMEN AND OMAN COASTS. UPPER TROPOSPHERIC RIDGE LIES ALONG LATITUDE 16.0<sup>0</sup>N NEAR LONGITUDE 50<sup>0</sup>E. AS THE SYSTEM MOVES WEST-SOUTHWESTWARDS, IT WILL GRADUALLY COME CLOSER TO LAND SURFACE AND HENCE THERE MAY BE LAND INTERACTION LEADING TO GRADUAL WEAKENING AFTER 12 HOURS. FURTHER, THE SYSTEM MAY ENCOUNTER THE HIGH VERTICAL WIND SHEAR AS IT MOVES CLOSER TO SOMALIA COAST. THE TOTAL PRECIPITABLE WATER IMAGERY INDICATES RELATIVELY DRY AIR CONDITION IN THE OUTER PERIPHERY OF THE SYSTEM IN SOUTHWESTERN SECTOR COVERING SOMALIA. CONSIDERING ALL THESE, THERE IS POSSIBILITY OF GRADUAL WEAKENING AFTER 12 HRS. HOWEVER, IT MAY CROSS SOMALIA COAST AS A CYCLONIC STORM WITH A WIND SPEED OF 65-75 KMPH GUSTING TO 85 KMPH.

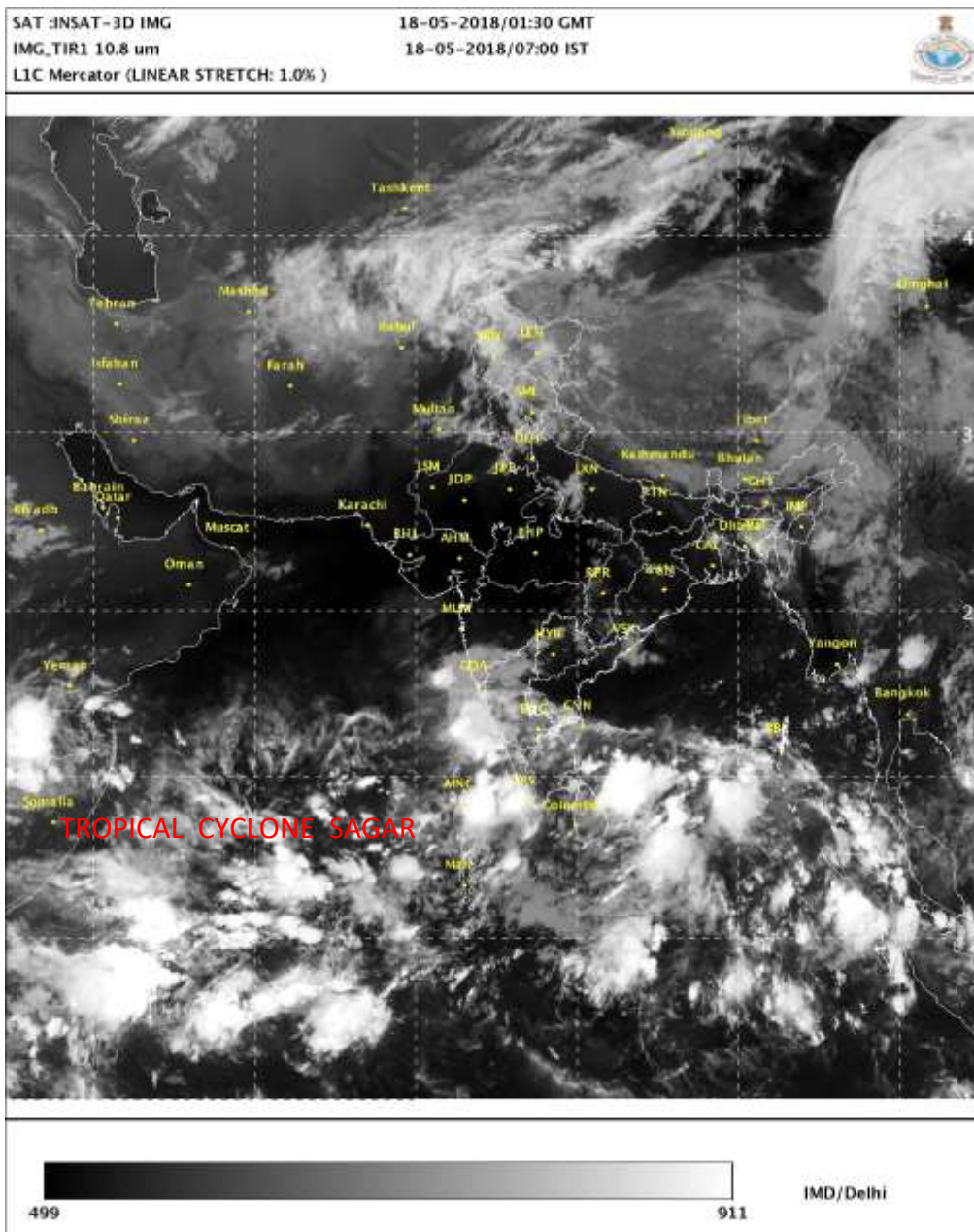
**(D JOARDAR)**  
**SCIENTIST-E, RSMC, NEW DELHI**

NEXT BULLETIN WILL BE ISSUED AT 0600 UTC OF 18<sup>TH</sup> MAY 2018.

**PROBABILITY OF CYCLOGENESIS (FORMATION OF DEPRESSION)**

**NIL: 0%, LOW: 1-25%, FAIR: 26-50%, MODERATE: 51-75% AND HIGH: 76-100%**

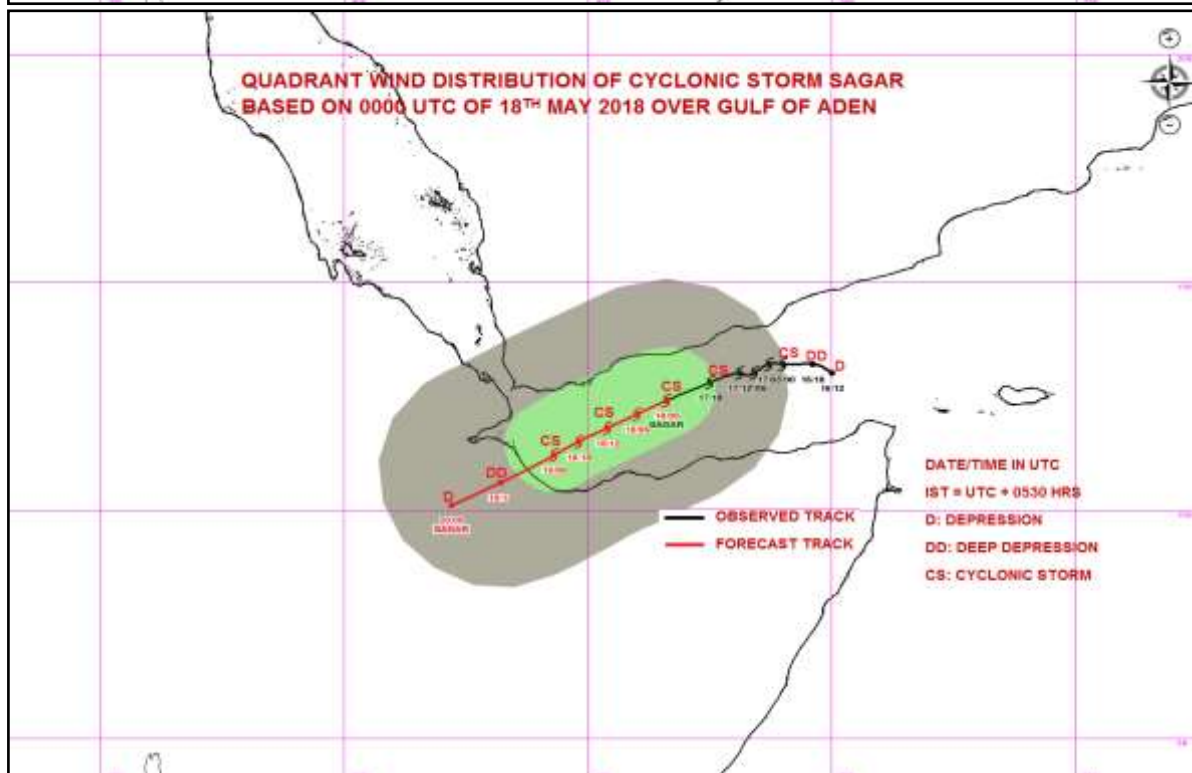
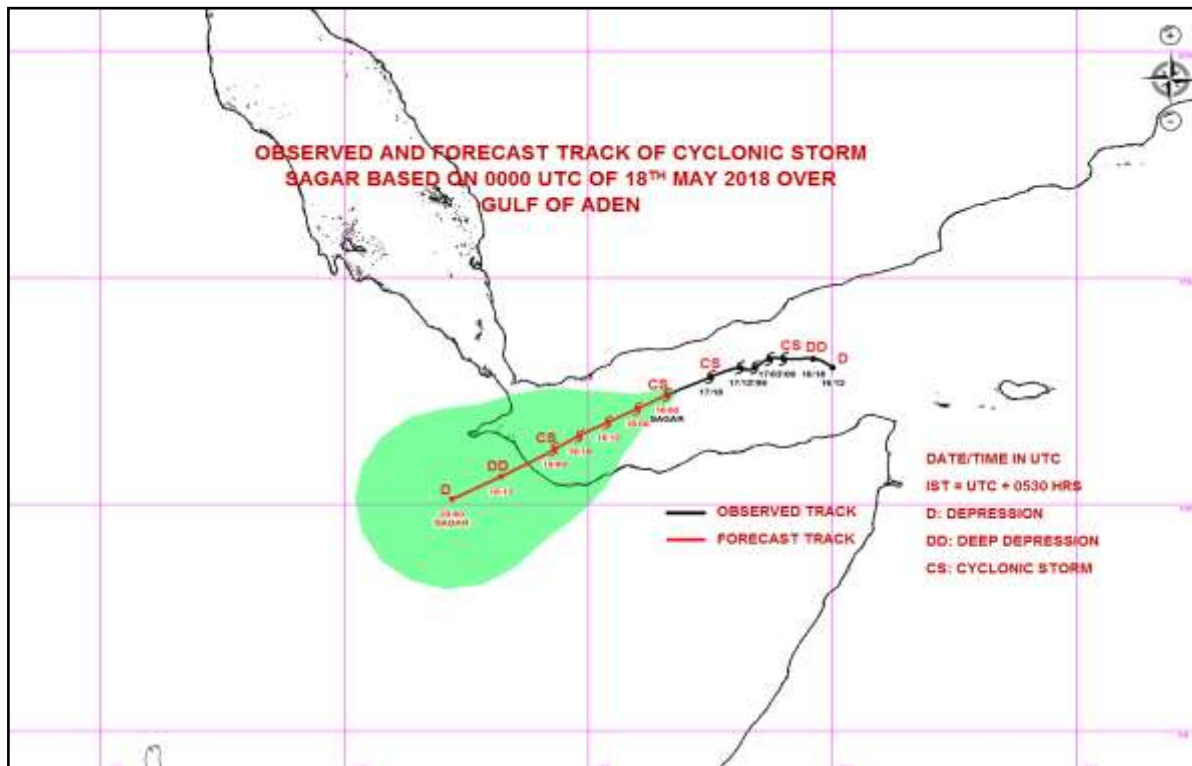
**Contact: Phone: (91) 11-24652484 FAX: (91) 11-24623220 e-mail :cwdhq2008@gmail.com**



# **PROBABILITY OF CYCLOGENESIS (FORMATION OF DEPRESSION)**

**NIL: 0%, LOW: 1-25%, FAIR: 26-50%, MODERATE: 51-75% AND HIGH: 76-100%**

**Contact: Phone: (91) 11-24652484 FAX: (91) 11-24623220 e-mail :cwdhq2008@gmail.com**



**PROBABILITY OF CYCLOGENESIS (FORMATION OF DEPRESSION)**

NIL: 0%, LOW: 1-25%, FAIR: 26-50%, MODERATE: 51-75% AND HIGH: 76-100%

Contact: Phone: (91) 11-24652484 FAX: (91) 11-24623220 e-mail :cwdhq2008@gmail.com



**REGIONAL SPECIALISED METEOROLOGICAL CENTRE-TROPICAL CYCLONES, NEW DELHI**  
**TROPICAL CYCLONE ADVISORY BULLETIN**

**FROM: RSMC –TROPICAL CYCLONES, NEW DELHI**  
**TO: STORM WARNING CENTRE, NAYPYI TAW (MYANMAR)**  
**STORM WARNING CENTRE, BANGKOK (THAILAND)**  
**STORM WARNING CENTRE, COLOMBO (SRILANKA)**  
**STORM WARNING CENTRE, DHAKA (BANGLADESH)**  
**STORM WARNING CENTRE, KARACHI (PAKISTAN)**  
**METEOROLOGICAL OFFICE, MALE (MALDIVES)**  
**OMAN METEOROLOGICAL DEPARTMENT, MUSCAT (THROUGH RTH JEDDAH)**  
**YEMEN METEOROLOGICAL SERVICES, REPUBLIC OF YEMEN (THROUGH RTH JEDDAH)**

**TROPICAL STORM ‘SAGAR’ ADVISORY NO. NINE ISSUED AT 0600 UTC OF 18<sup>TH</sup> MAY 2018 BASED ON 0300 UTC OF 18<sup>TH</sup> MAY 2018**

THE CYCLONIC STORM “SAGAR” OVER GULF OF ADEN MOVED FURTHER WEST-SOUTHWESTWARDS WITH A SPEED OF 18 KMPH DURING PAST 6 HOURS, AND LAY CENTERED AT 0300 UTC IST OF 18TH MAY 2018 OVER GULF OF ADEN NEAR LATITUDE 12.2°N AND LONGITUDE 46.3°E; ABOUT 140 KM EAST-SOUTHEAST OF ADEN (YEMEN) AND 820 KM WEST-SOUTHWEST OF SOCOTRA ISLANDS. IT IS VERY LIKELY TO CONTINUE TO MOVE WEST-SOUTHWESTWARDS AND WEAKEN GRADUALLY AFTER 12 HRS AND CROSS SOMALIA COAST NEAR ABOUT LONGITUDE 44°E AROUND NOON OF 19TH MAY 2018 AS A CYCLONIC STORM WITH WIND SPEED 65-75 KMPH GUSTING 85 KMPH.

AS PER THE LATEST SATELLITE IMAGERY, THE INTENSITY OF THE SYSTEM IS T2.5. ASSOCIATED SCATTERED LOW & MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION LIE OVER AREA BETWEEN LATITUDE 11.0°N TO 14.0°N AND LONGITUDE 44.0°E TO 47.0°E GULF OF ADEN (YEMEN) AND ADJOINING SAUDI ARABIA AND NORTH SOMALIA (MIN CTT MINUS 93° C).

THE ESTIMATED CENTRAL PRESSURE IS ABOUT 996 HPA AND THE MAXIMUM SUSTAINED SURFACE WIND SPEED IS 45 KNOTS GUSTING TO 55 KNOTS. STATE OF SEA IS HIGH TO VERY HIGH AROUND THE SYSTEM CENTRE.

DATE/TIME(UTC)	POSITION (LAT. °N/ LONG. °E)	MAXIMUM SUSTAINED SURFACE WIND SPEED (KMPH)	CATEGORY OF CYCLONIC DISTURBANCE
18/0300	12.2/46.3	75-85 GUSTING TO 95	CYCLONIC STORM
18/0600	12.1/46.0	75-85 GUSTING TO 95	CYCLONIC STORM
18/1200	11.8//45.4	70-80 GUSTING TO 90	CYCLONIC STORM
18/1800	11.5/44.8	70-80 GUSTING TO 90	CYCLONIC STORM
19/0000	11.2/44.3	65-75 GUSTING TO 85	CYCLONIC STORM
19/1200	10.6/43.2	55-65 GUSTING TO 75	DEEP DEPRESSION
20/0000	10.1/42.2	45-55 GUSTING TO 65	DEPRESSION

**PROBABILITY OF CYCLOGENESIS (FORMATION OF DEPRESSION)**

**NIL: 0%, LOW: 1-25%, FAIR: 26-50%, MODERATE: 51-75% AND HIGH: 76-100%**

**Contact: Phone: (91) 11-24652484 FAX: (91) 11-24623220 e-mail :cwdhq2008@gmail.com**

**REMARKS:**

THE SEA SURFACE TEMPERATURE (SST) IS 30-32<sup>0</sup> C OVER THE SYSTEM AREA. THE TROPICAL CYCLONE HEAT POTENTIAL IS ABOUT 50 KJ/CM<sup>2</sup> OVER THE REGION OF THE SYSTEM. THERE IS A MAXIMA OF VALUE 30 X10<sup>-5</sup> S<sup>-1</sup> IN LOW LEVEL CONVERGENCE TO THE SOUTHWEST OF THE SYSTEM CENTRE. THE UPPER LEVEL DIVERGENCE IS ABOUT 20 X10<sup>-5</sup> S<sup>-1</sup> AROUND THE SYSTEM CENTRE. VORTICITY AT 850 HPA LEVEL IS ABOUT 100X10<sup>-6</sup> S<sup>-1</sup> TO THE SOUTH OF THE SYSTEM CENTRE. VERTICAL WIND SHEAR IS LOW TO MODERATE (10-15 KTS) AROUND THE SYSTEM CENTRE. IT INCREASES TOWARDS YEMEN AND OMAN COASTS. UPPER TROPOSPHERIC RIDGE LIES ALONG LATITUDE 16.0<sup>0</sup>N NEAR LONGITUDE 50<sup>0</sup>E. AS THE SYSTEM MOVES WEST-SOUTHWESTWARDS, IT WILL GRADUALLY COME CLOSER TO LAND SURFACE AND HENCE THERE MAY BE LAND INTERACTION LEADING TO GRADUAL WEAKENING AFTER 12 HOURS. FURTHER, THE SYSTEM MAY ENCOUNTER THE HIGH VERTICAL WIND SHEAR AS IT MOVES CLOSER TO SOMALIA COAST. THE TOTAL PRECIPITABLE WATER IMAGERY INDICATES RELATIVELY DRY AIR CONDITION IN THE OUTER PERIPHERY OF THE SYSTEM IN SOUTHWESTERN SECTOR COVERING SOMALIA. CONSIDERING ALL THESE, THERE IS POSSIBILITY OF GRADUAL WEAKENING AFTER 12 HRS. HOWEVER, IT MAY CROSS SOMALIA COAST AS A CYCLONIC STORM WITH A WIND SPEED OF 65-75 KMPH GUSTING TO 85 KMPH.

**(NARESH KUMAR)**  
**SCIENTIST-E, RSMC, NEW DELHI**

**PROBABILITY OF CYCLOGENESIS (FORMATION OF DEPRESSION)**

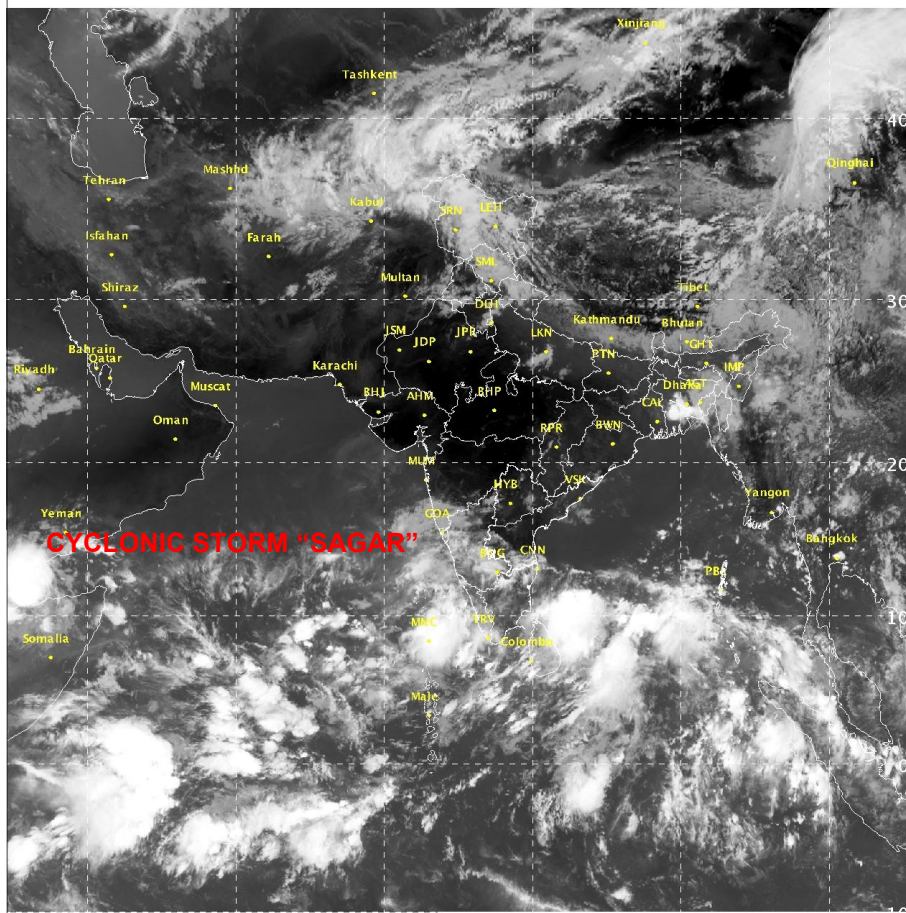
**NIL: 0%, LOW: 1-25%, FAIR: 26-50%, MODERATE: 51-75% AND HIGH: 76-100%**

**Contact: Phone: (91) 11-24652484 FAX: (91) 11-24623220 e-mail :cwdhq2008@gmail.com**



SAT :INSAT-3D IMG  
IMG\_TIR1 10.8 um  
L1C Mercator (LINEAR STRETCH: 1.0% )

18-05-2018/04:30 GMT  
18-05-2018/10:00 IST

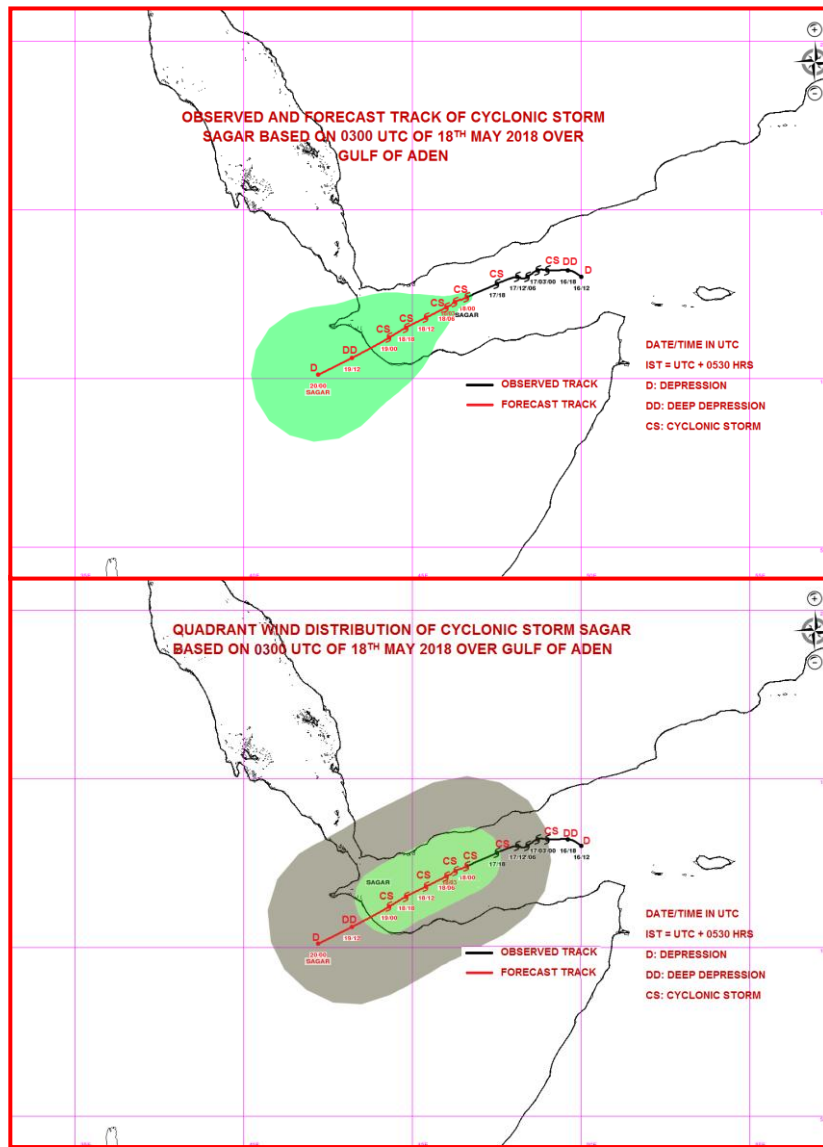


IMD/Delhi

### PROBABILITY OF CYCLOGENESIS (FORMATION OF DEPRESSION)

NIL: 0%, LOW: 1-25%, FAIR: 26-50%, MODERATE: 51-75% AND HIGH: 76-100%

Contact: Phone: (91) 11-24652484 FAX: (91) 11-24623220 e-mail :cwdhq2008@gmail.com



**PROBABILITY OF CYCLOGENESIS (FORMATION OF DEPRESSION)**

**NIL: 0%, LOW: 1-25%, FAIR: 26-50%, MODERATE: 51-75% AND HIGH: 76-100%**

**Contact: Phone: (91) 11-24652484 FAX: (91) 11-24623220 e-mail :cwdhq2008@gmail.com**



**REGIONAL SPECIALISED METEOROLOGICAL CENTRE-TROPICAL CYCLONES, NEW DELHI**  
**TROPICAL CYCLONE ADVISORY BULLETIN**

**FROM: RSMC –TROPICAL CYCLONES, NEW DELHI**  
**TO: STORM WARNING CENTRE, NAYPYI TAW (MYANMAR)**  
**STORM WARNING CENTRE, BANGKOK (THAILAND)**  
**STORM WARNING CENTRE, COLOMBO (SRILANKA)**  
**STORM WARNING CENTRE, DHAKA (BANGLADESH)**  
**STORM WARNING CENTRE, KARACHI (PAKISTAN)**  
**METEOROLOGICAL OFFICE, MALE (MALDIVES)**  
**OMAN METEOROLOGICAL DEPARTMENT, MUSCAT (THROUGH RTH JEDDAH)**  
**YEMEN METEOROLOGICAL SERVICES, REPUBLIC OF YEMEN (THROUGH RTH JEDDAH)**

**TROPICAL STORM ‘SAGAR’ ADVISORY NO. TEN ISSUED AT 0800 UTC OF 18<sup>TH</sup> MAY 2018 BASED ON 0600 UTC OF 18<sup>TH</sup> MAY 2018**

THE CYCLONIC STORM “SAGAR” OVER GULF OF ADEN MOVED FURTHER WEST-SOUTHWESTWARDS WITH A SPEED OF 13 KMPH DURING PAST 6 HOURS, AND LAY CENTERED AT 0600 UTC IST OF 18TH MAY 2018 OVER GULF OF ADEN NEAR LATITUDE 12.0°N AND LONGITUDE 46.0°E; ABOUT 120 KM EAST-SOUTHEAST OF ADEN (YEMEN) AND 860 KM WEST-SOUTHWEST OF SOCOTRA ISLANDS. IT IS VERY LIKELY TO CONTINUE TO MOVE WEST-SOUTHWESTWARDS AND WEAKEN GRADUALLY AFTER 12 HRS AND CROSS SOMALIA COAST NEAR ABOUT LONGITUDE 44°E AROUND NOON OF 19TH MAY 2018 AS A CYCLONIC STORM WITH WIND SPEED 65-75 KMPH GUSTING 85 KMPH.

AS PER THE LATEST SATELLITE IMAGERY, THE INTENSITY OF THE SYSTEM IS T2.5. ASSOCIATED SCATTERED LOW & MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION LIE OVER AREA BETWEEN LATITUDE 11.0°N TO 14.0°N AND LONGITUDE 44.0°E TO 47.0°E GULF OF ADEN (YEMEN) AND ADJOINING SAUDI ARABIA AND NORTH SOMALIA (MIN CTT MINUS 93° C).

THE ESTIMATED CENTRAL PRESSURE IS ABOUT 996 HPA AND THE MAXIMUM SUSTAINED SURFACE WIND SPEED IS 45 KNOTS GUSTING TO 55 KNOTS. STATE OF SEA IS HIGH TO VERY HIGH AROUND THE SYSTEM CENTRE.

DATE/TIME(UTC)	POSITION (LAT. °N/ LONG. °E)	MAXIMUM SUSTAINED SURFACE WIND SPEED (KMPH)	CATEGORY OF CYCLONIC DISTURBANCE
18/0600	12.0/46.0	75-85 GUSTING TO 95	CYCLONIC STORM
18/1200	11.8//45.4	70-80 GUSTING TO 90	CYCLONIC STORM
18/1800	11.5/44.8	70-80 GUSTING TO 90	CYCLONIC STORM
19/0000	11.2/44.3	65-75 GUSTING TO 85	CYCLONIC STORM
19/0600	10.9/43.8	65-75 GUSTING TO 85	CYCLONIC STORM
19/1800	10.3/42.7	55-65 GUSTING TO 75	DEEP DEPRESSION
20/0600	9.8/41.7	45-55 GUSTING TO 65	DEPRESSION

**PROBABILITY OF CYCLOGENESIS (FORMATION OF DEPRESSION)**

**NIL: 0%, LOW: 1-25%, FAIR: 26-50%, MODERATE: 51-75% AND HIGH: 76-100%**

**Contact: Phone: (91) 11-24652484 FAX: (91) 11-24623220 e-mail :cwdhq2008@gmail.com**

**REMARKS:**

THE SEA SURFACE TEMPERATURE (SST) IS 30-32<sup>0</sup> C OVER THE SYSTEM AREA. THE TROPICAL CYCLONE HEAT POTENTIAL IS ABOUT 50 KJ/CM<sup>2</sup> OVER THE REGION OF THE SYSTEM. THERE IS A MAXIMA OF VALUE 30 X10<sup>-5</sup> S<sup>-1</sup> IN LOW LEVEL CONVERGENCE TO THE SOUTHWEST OF THE SYSTEM CENTRE. THE UPPER LEVEL DIVERGENCE IS ABOUT 20 X10<sup>-5</sup> S<sup>-1</sup> AROUND THE SYSTEM CENTRE. VORTICITY AT 850 HPA LEVEL IS ABOUT 100X10<sup>-6</sup> S<sup>-1</sup> TO THE SOUTH OF THE SYSTEM CENTRE. VERTICAL WIND SHEAR IS LOW TO MODERATE (10-15 KTS) AROUND THE SYSTEM CENTRE. IT INCREASES TOWARDS YEMEN AND OMAN COASTS. UPPER TROPOSPHERIC RIDGE LIES ALONG LATITUDE 16.0<sup>0</sup>N NEAR LONGITUDE 50<sup>0</sup>E. AS THE SYSTEM MOVES WEST-SOUTHWESTWARDS, IT WILL GRADUALLY COME CLOSER TO LAND SURFACE AND HENCE THERE MAY BE LAND INTERACTION LEADING TO GRADUAL WEAKENING AFTER 12 HOURS. FURTHER, THE SYSTEM MAY ENCOUNTER THE HIGH VERTICAL WIND SHEAR AS IT MOVES CLOSER TO SOMALIA COAST. THE TOTAL PRECIPITABLE WATER IMAGERY INDICATES RELATIVELY DRY AIR CONDITION IN THE OUTER PERIPHERY OF THE SYSTEM IN SOUTHWESTERN SECTOR COVERING SOMALIA. CONSIDERING ALL THESE, THERE IS POSSIBILITY OF GRADUAL WEAKENING AFTER 12 HRS. HOWEVER, IT MAY CROSS SOMALIA COAST AS A CYCLONIC STORM WITH A WIND SPEED OF 65-75 KMPH GUSTING TO 85 KMPH.

**(NARESH KUMAR)**  
**SCIENTIST-E, RSMC, NEW DELHI**

**PROBABILITY OF CYCLOGENESIS (FORMATION OF DEPRESSION)**

**NIL: 0%, LOW: 1-25%, FAIR: 26-50%, MODERATE: 51-75% AND HIGH: 76-100%**

**Contact: Phone: (91) 11-24652484 FAX: (91) 11-24623220 e-mail :cwdhq2008@gmail.com**

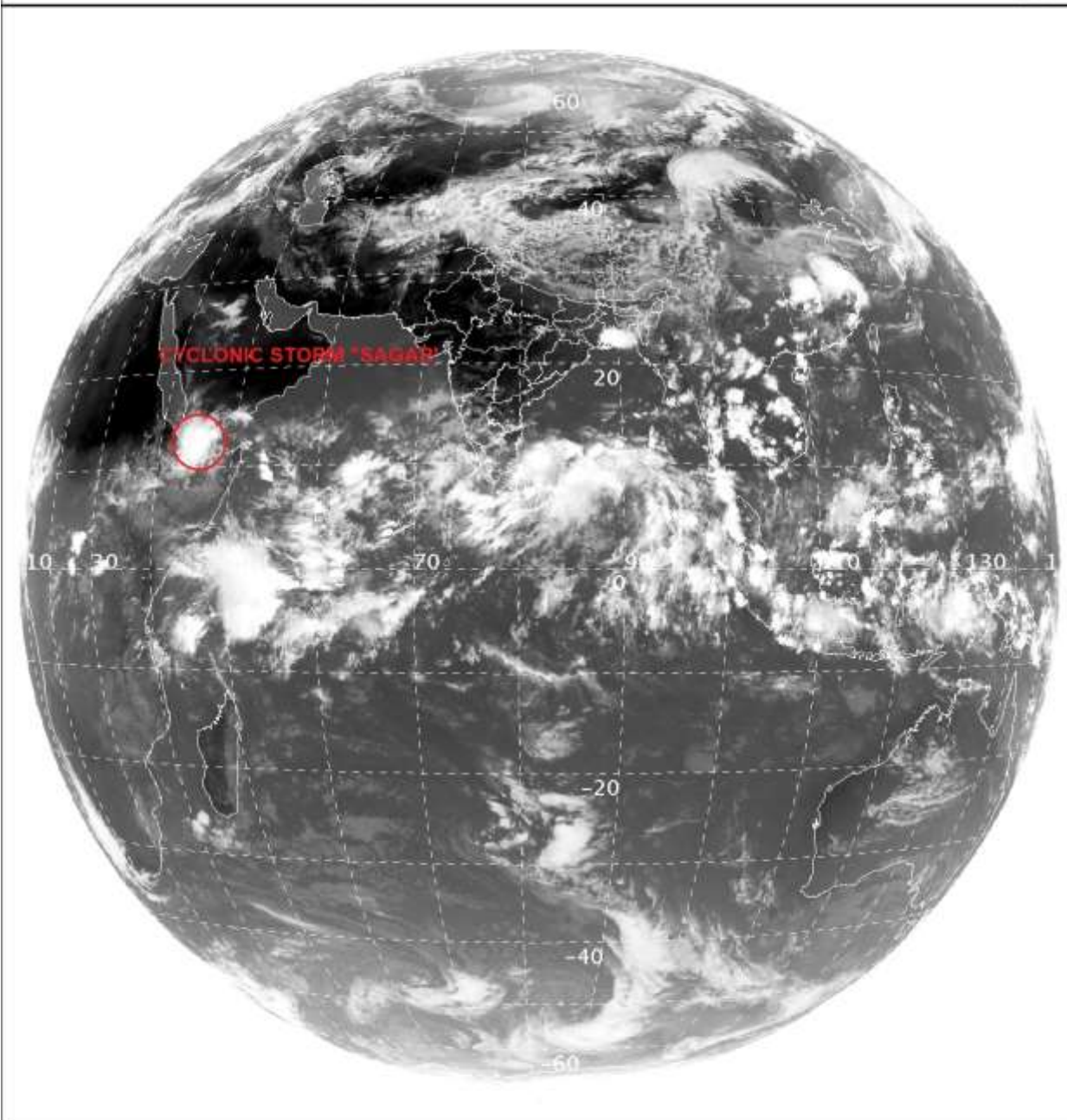
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18-05-2018/(0830 to 0857) GMT

IMG\_TIR1 10.8 um

18-05-2018/(1400 to 1427) IST

L1B FULL DISK (LINEAR STRETCH: 1.0% )



362

896

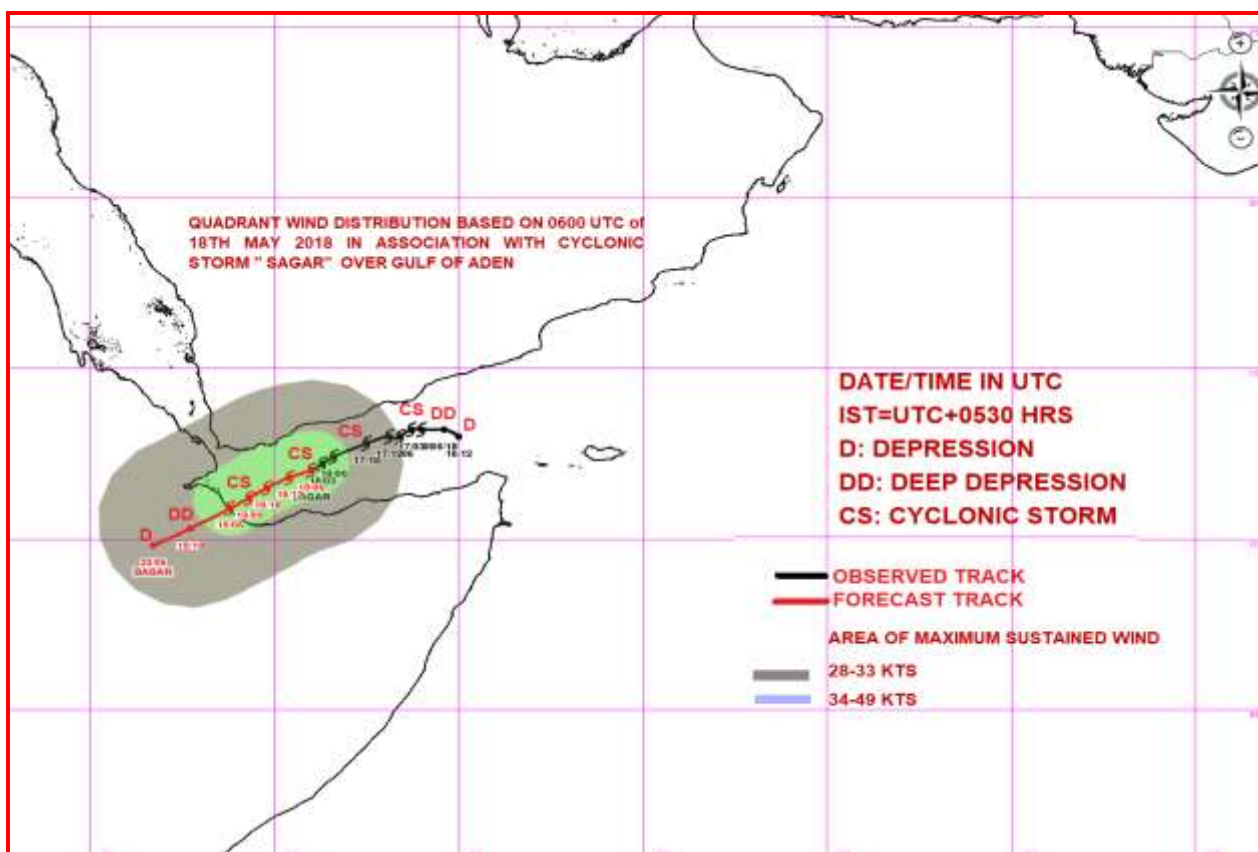
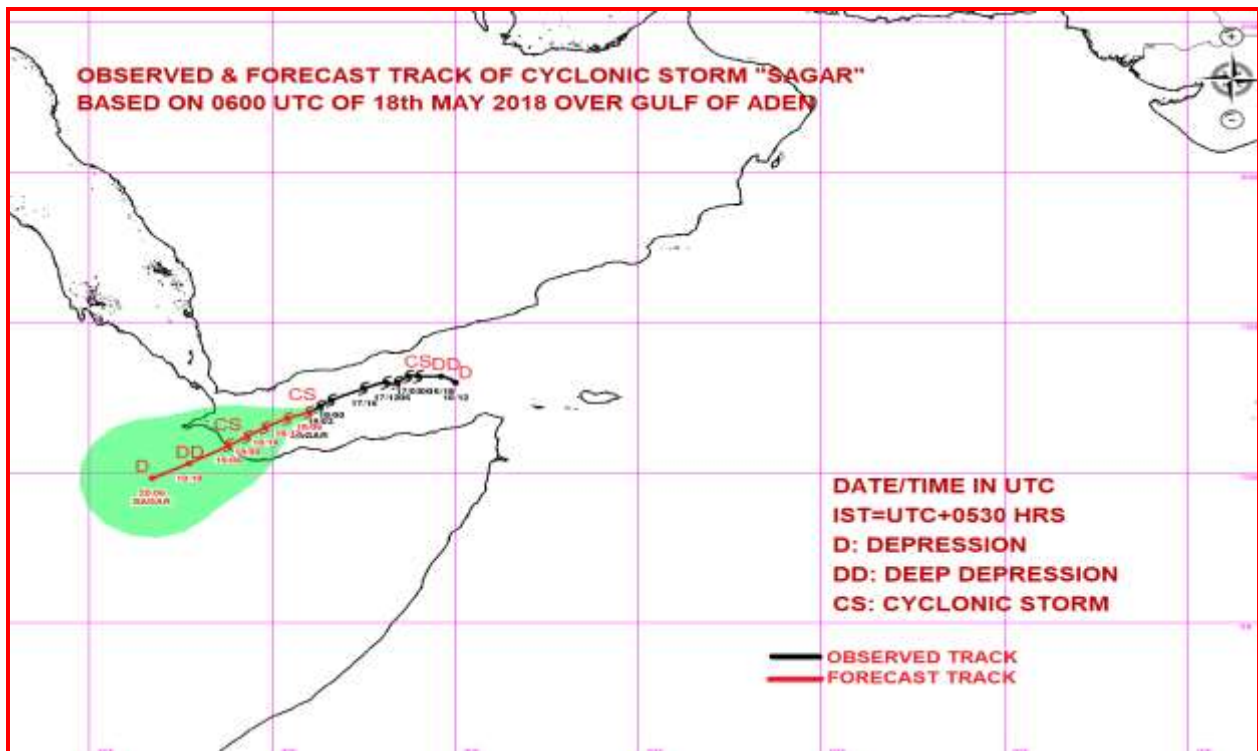
IMD/Delhi

**PROBABILITY OF CYCLOGENESIS (FORMATION OF DEPRESSION)**

**NIL: 0%, LOW: 1-25%, FAIR: 26-50%, MODERATE: 51-75% AND HIGH: 76-100%**

**Contact: Phone: (91) 11-24652484 FAX: (91) 11-24623220 e-mail :cwdhq2008@gmail.com**





**PROBABILITY OF CYCLOGENESIS (FORMATION OF DEPRESSION)**

**NIL: 0%, LOW: 1-25%, FAIR: 26-50%, MODERATE: 51-75% AND HIGH: 76-100%**

**Contact: Phone: (91) 11-24652484 FAX: (91) 11-24623220 e-mail :cwdhq2008@gmail.com**





**REGIONAL SPECIALISED METEOROLOGICAL CENTRE-TROPICAL CYCLONES, NEW DELHI**  
**TROPICAL CYCLONE ADVISORY BULLETIN**

**FROM: RSMC –TROPICAL CYCLONES, NEW DELHI**  
**TO: STORM WARNING CENTRE, NAYPYI TAW (MYANMAR)**  
**STORM WARNING CENTRE, BANGKOK (THAILAND)**  
**STORM WARNING CENTRE, COLOMBO (SRILANKA)**  
**STORM WARNING CENTRE, DHAKA (BANGLADESH)**  
**STORM WARNING CENTRE, KARACHI (PAKISTAN)**  
**METEOROLOGICAL OFFICE, MALE (MALDIVES)**  
**OMAN METEOROLOGICAL DEPARTMENT, MUSCAT (THROUGH RTH JEDDAH)**  
**YEMEN METEOROLOGICAL SERVICES, REPUBLIC OF YEMEN (THROUGH RTH JEDDAH)**

**TROPICAL STORM ‘SAGAR’ ADVISORY NO. eleven ISSUED AT 1200 UTC OF 18<sup>TH</sup> MAY 2018 BASED ON 0900 UTC OF 18<sup>TH</sup> MAY 2018**

THE CYCLONIC STORM “SAGAR” OVER GULF OF ADEN MOVED FURTHER WEST-SOUTHWESTWARDS WITH A SPEED OF 16 KMPH DURING PAST 6 HOURS, AND LAY CENTERED AT 0900 UTC IST OF 18TH MAY 2018 OVER GULF OF ADEN NEAR LATITUDE 11.7°N AND LONGITUDE 45.6°E; ABOUT 120 KM EAST-SOUTHEAST OF ADEN (YEMEN) AND 900 KM WEST-SOUTHWEST OF SOCOTRA ISLANDS. IT IS VERY LIKELY TO CONTINUE TO MOVE WEST-SOUTHWESTWARDS AND WEAKEN GRADUALLY from 19<sup>th</sup> morning AND CROSS SOMALIA COAST NEAR ABOUT LONGITUDE 44°E AROUND afterNOON OF 19TH MAY 2018 AS A CYCLONIC STORM WITH WIND SPEED 65-75 KMPH GUSTING 85 KMPH.

AS PER THE LATEST SATELLITE IMAGERY, THE INTENSITY OF THE SYSTEM IS T3.0. ASSOCIATED SCATTERED LOW & MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION LIE OVER AREA BETWEEN LATTITUDE 11.0°N TO 14.0°N AND LONGITUDE 44.0°E TO 47.0°E GULF OF ADEN (YEMEN) AND ADJOINING SAUDI ARABIA AND NORTH SOMALIA (MIN CTT MINUS 93° C).

THE ESTIMATED CENTRAL PRESSURE IS ABOUT 994 HPA AND THE MAXIMUM SUSTAINED SURFACE WIND SPEED IS 45 KNOTS GUSTING TO 55 KNOTS. STATE OF SEA IS HIGH TO VERY HIGH AROUND THE SYSTEM CENTRE.

DATE/TIME(UTC)	POSITION (LAT. °N/ LONG. °E)	MAXIMUM SUSTAINED SURFACE WIND SPEED (KMPH)	CATEGORY OF CYCLONIC DISTURBANCE
18/0900	11.7/45.6	75-85 GUSTING TO 95	CYCLONIC STORM
18/1200	11.5/45.2	80-90 GUSTING TO 100	CYCLONIC STORM
18/1800	11.3/44.8	80-90 GUSTING TO 100	CYCLONIC STORM
19/0000	11.1/44.3	75-85 GUSTING TO 95	CYCLONIC STORM
19/0600	10.9/43.8	70-80 GUSTING TO 90	CYCLONIC STORM
19/1800	10.3/42.7	55-65 GUSTING TO 75	DEEP DEPRESSION
20/0600	9.8/41.7	45-55 GUSTING TO 65	DEPRESSION

**PROBABILITY OF CYCLOGENESIS (FORMATION OF DEPRESSION)**

**NIL: 0%, LOW: 1-25%, FAIR: 26-50%, MODERATE: 51-75% AND HIGH: 76-100%**

**Contact: Phone: (91) 11-24652484 FAX: (91) 11-24623220 e-mail :cwdhq2008@gmail.com**

**REMARKS:**

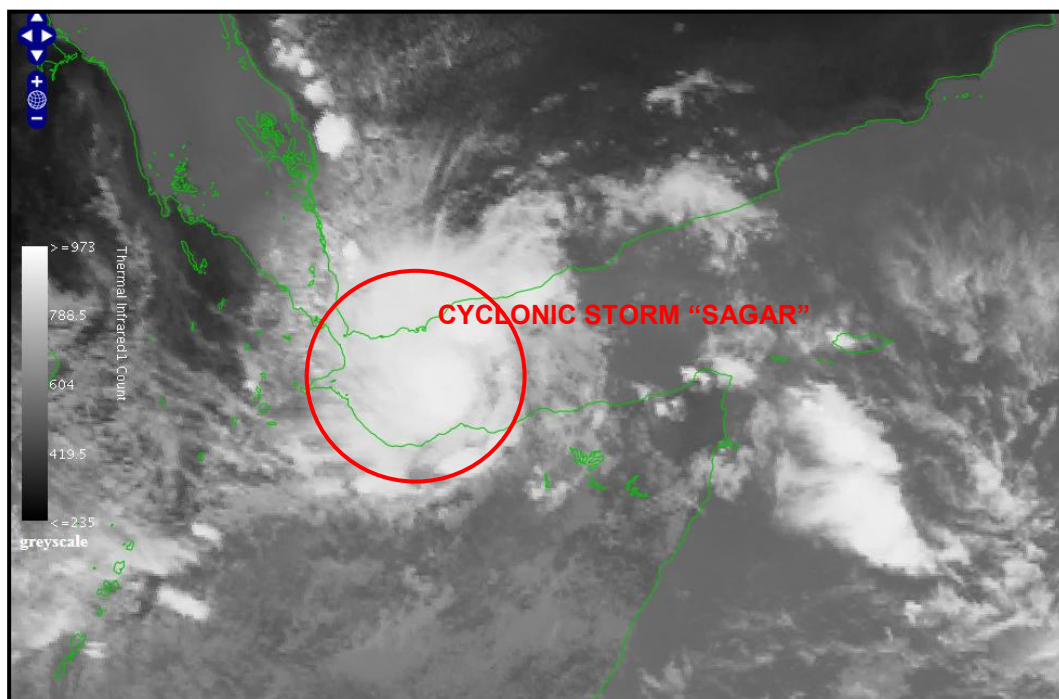
THE SEA SURFACE TEMPERATURE (SST) IS 30-32<sup>0</sup> C OVER THE SYSTEM AREA. THE TROPICAL CYCLONE HEAT POTENTIAL IS ABOUT 50 KJ/CM<sup>2</sup> OVER THE REGION OF THE SYSTEM. THERE IS A MAXIMA OF VALUE 20 X10<sup>-5</sup> S<sup>-1</sup> IN LOW LEVEL CONVERGENCE TO THE SOUTHWEST OF THE SYSTEM CENTRE. THE UPPER LEVEL DIVERGENCE IS ABOUT 10 X10<sup>-5</sup> S<sup>-1</sup> AROUND THE SYSTEM CENTRE. VORTICITY AT 850 HPA LEVEL IS ABOUT 100X10<sup>-6</sup> S<sup>-1</sup> TO THE SOUTH OF THE SYSTEM CENTRE. VERTICAL WIND SHEAR IS LOW TO MODERATE (10-15 KTS) AROUND THE SYSTEM CENTRE. IT INCREASES TOWARDS YEMEN AND OMAN COASTS. UPPER TROPOSPHERIC RIDGE LIES ALONG LATITUDE 12.0<sup>0</sup>N NEAR LONGITUDE 50<sup>0</sup>E. AS THE SYSTEM MOVES WEST-SOUTHWESTWARDS, IT WILL GRADUALLY COME CLOSER TO LAND SURFACE AND HENCE THERE MAY BE LAND INTERACTION LEADING TO GRADUAL WEAKENING AFTER 12 HOURS. FURTHER, THE SYSTEM MAY ENCOUNTER THE HIGH VERTICAL WIND SHEAR AS IT MOVES CLOSER TO SOMALIA COAST. THE TOTAL PRECIPITABLE WATER IMAGERY INDICATES RELATIVELY DRY AIR CONDITION IN THE OUTER PERIPHERY OF THE SYSTEM IN SOUTHWESTERN SECTOR COVERING SOMALIA. CONSIDERING ALL THESE, THERE IS POSSIBILITY OF GRADUAL WEAKENING AFTER 12 HRS. HOWEVER, IT MAY CROSS SOMALIA COAST AS A CYCLONIC STORM WITH A WIND SPEED OF 65-75 KMPH GUSTING TO 85 KMPH.

**(NARESH KUMAR)**  
**SCIENTIST-E, RSMC, NEW DELHI**

**PROBABILITY OF CYCLOGENESIS (FORMATION OF DEPRESSION)**

**NIL: 0%, LOW: 1-25%, FAIR: 26-50%, MODERATE: 51-75% AND HIGH: 76-100%**

**Contact: Phone: (91) 11-24652484 FAX: (91) 11-24623220 e-mail :cwdhq2008@gmail.com**



INSAT 3D IMAGERY OF 830 UTC OF 18.05.2018

**PROBABILITY OF CYCLOGENESIS (FORMATION OF DEPRESSION)**

**NIL: 0%, LOW: 1-25%, FAIR: 26-50%, MODERATE: 51-75% AND HIGH: 76-100%**

**Contact: Phone: (91) 11-24652484 FAX: (91) 11-24623220 e-mail :cwdhq2008@gmail.com**





**REGIONAL SPECIALISED METEOROLOGICAL CENTRE-TROPICAL CYCLONES, NEW DELHI**  
**TROPICAL CYCLONE ADVISORY BULLETIN**

**FROM: RSMC –TROPICAL CYCLONES, NEW DELHI**  
**TO: STORM WARNING CENTRE, NAYPYI TAW (MYANMAR)**  
**STORM WARNING CENTRE, BANGKOK (THAILAND)**  
**STORM WARNING CENTRE, COLOMBO (SRILANKA)**  
**STORM WARNING CENTRE, DHAKA (BANGLADESH)**  
**STORM WARNING CENTRE, KARACHI (PAKISTAN)**  
**METEOROLOGICAL OFFICE, MALE (MALDIVES)**  
**OMAN METEOROLOGICAL DEPARTMENT, MUSCAT (THROUGH RTH JEDDAH)**  
**YEMEN METEOROLOGICAL SERVICES, REPUBLIC OF YEMEN (THROUGH RTH JEDDAH)**

**TROPICAL STORM ‘SAGAR’ ADVISORY NO. TWELVE ISSUED AT 1400 UTC OF 18<sup>TH</sup> MAY 2018**  
**BASED ON 1200 UTC OF 18<sup>TH</sup> MAY 2018**

THE CYCLONIC STORM “SAGAR” OVER GULF OF ADEN MOVED FURTHER WEST-SOUTHWESTWARDS WITH A SPEED OF 12 KMPH DURING PAST 06 HOURS, AND LAY CENTERED AT 1200 UTC IST OF 18TH MAY 2018 OVER GULF OF ADEN NEAR LATITUDE 11.6°N AND LONGITUDE 45.5°E; ABOUT 120 KM SOUTH-SOUTHEAST OF ADEN (41480) AND 920 KM WEST-SOUTHWEST OF SOCOTRA ISLANDS(41494). IT IS VERY LIKELY TO CONTINUE TO MOVE WEST-SOUTHWESTWARDS AND WEAKEN GRADUALLY FROM 19<sup>TH</sup> MORNING AND CROSS SOMALIA COAST NEAR LONGITUDE 44°E DURING THE AFTERNOON OF 19TH MAY 2018 AS A CYCLONIC STORM WITH WIND SPEED 65-75 KMPH GUSTING 85 KMPH AT THE TIME OF LANDFALL.

AS PER THE LATEST SATELLITE IMAGERY, THE INTENSITY OF THE SYSTEM IS T3.0 AND CLOUD SHOWS CDO PATTERN. ASSOCIATED SCATTERED LOW & MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION LIE OVER AREA BETWEEN LATTITUDE 11.0°N TO 14.0°N AND LONGITUDE 44.0°E TO 47.0°E GULF OF ADEN (YEMEN) AND ADJOINING SAUDI ARABIA AND NORTH SOMALIA (MIN CTT MINUS 93° C).

THE ESTIMATED CENTRAL PRESSURE IS ABOUT 994 HPA AND THE MAXIMUM SUSTAINED SURFACE WIND SPEED IS 45 KNOTS GUSTING TO 55 KNOTS. STATE OF SEA IS HIGH TO VERY HIGH AROUND THE SYSTEM CENTRE.

DATE/TIME(UTC)	POSITION (LAT. °N/ LONG. °E)	MAXIMUM SUSTAINED SURFACE WIND SPEED (KMPH)	CATEGORY OF CYCLONIC DISTURBANCE
18/1200	11.6/45.5	80-90 GUSTING TO 100	CYCLONIC STORM
18/1800	11.3/45.2	80-90 GUSTING TO 100	CYCLONIC STORM
19/0000	11.0/44.8	80-90 GUSTING TO 100	CYCLONIC STORM
19/0600	10.7/44.3	75-85 GUSTING TO 95	CYCLONIC STORM
19/1200	10.4/43.9	55-65 GUSTING TO 75	DEEP DEPRESSION
20/0000	9.7/43.0	45-55 GUSTING TO 65	DEPRESSION

**PROBABILITY OF CYCLOGENESIS (FORMATION OF DEPRESSION)**

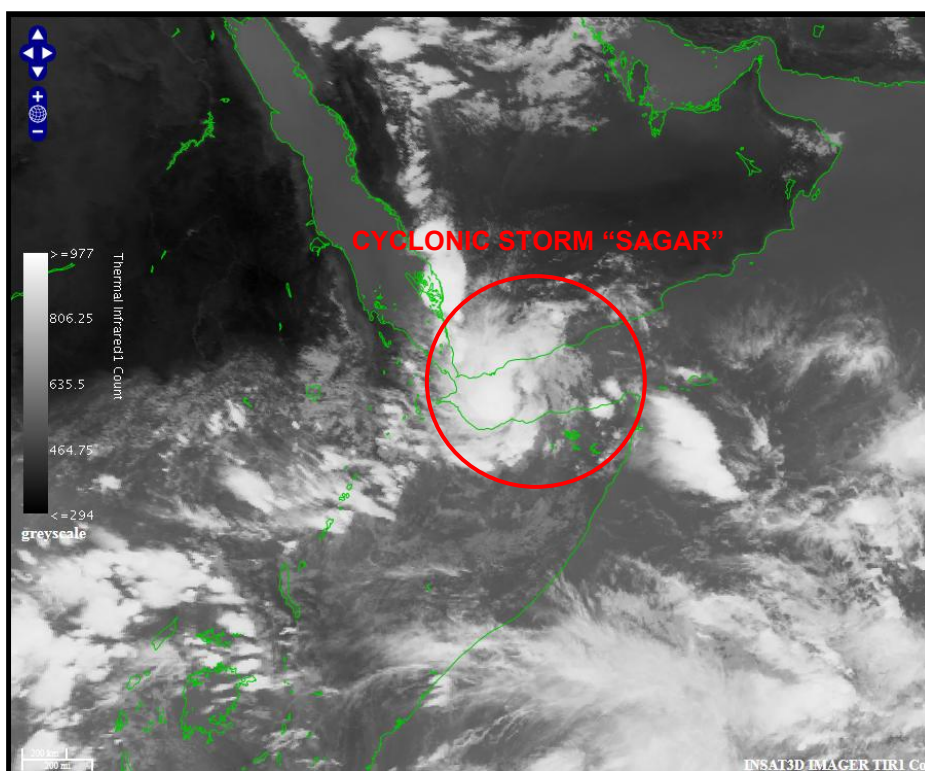
**NIL: 0%, LOW: 1-25%, FAIR: 26-50%, MODERATE: 51-75% AND HIGH: 76-100%**

**Contact: Phone: (91) 11-24652484 FAX: (91) 11-24623220 e-mail :cwdhq2008@gmail.com**

## REMARKS:

THE SEA SURFACE TEMPERATURE (SST) IS 30-32<sup>0</sup> C OVER THE SYSTEM AREA. THE TROPICAL CYCLONE HEAT POTENTIAL IS ABOUT 50 KJ/CM<sup>2</sup> OVER THE REGION OF THE SYSTEM. THERE IS A MAXIMA OF VALUE 20 X10<sup>-5</sup> S<sup>-1</sup> IN LOW LEVEL CONVERGENCE TO THE SOUTH OF THE SYSTEM CENTRE. THE UPPER LEVEL DIVERGENCE IS ABOUT 10 X10<sup>-5</sup> S<sup>-1</sup> AROUND THE SYSTEM CENTRE. VORTICITY AT 850 HPA LEVEL IS ABOUT 100X10<sup>-6</sup> S<sup>-1</sup> TO THE SOUTH OF THE SYSTEM CENTRE. VERTICAL WIND SHEAR IS LOW (05-10 KTS) AROUND THE SYSTEM CENTRE. IT INCREASES TOWARDS YEMEN AND OMAN COASTS. UPPER TROPOSPHERIC RIDGE LIES ALONG LATITUDE 12.0<sup>0</sup>N NEAR LONGITUDE 50<sup>0</sup>E. AS THE SYSTEM MOVES WEST-SOUTHWESTWARDS, IT WILL GRADUALLY COME CLOSER TO LAND SURFACE AND HENCE THERE MAY BE LAND INTERACTION LEADING TO GRADUAL WEAKENING FROM TOMORROW, THE 19-05.2018 MORNING. FURTHER, THE SYSTEM MAY ENCOUNTER THE HIGH VERTICAL WIND SHEAR AS IT MOVES CLOSER TO SOMALIA COAST. THE TOTAL PRECIPITABLE WATER IMAGERY INDICATES RELATIVELY DRY AIR CONDITION IN THE OUTER PERIPHERY OF THE SYSTEM IN SOUTHWESTERN SECTOR COVERING SOMALIA. CONSIDERING ALL THESE, THERE IS POSSIBILITY OF GRADUAL WEAKENING FROM TOMORROW, THE 19-05.2018 MORNING. HOWEVER, IT MAY CROSS SOMALIA COAST AS A CYCLONIC STORM WITH A WIND SPEED OF 65-75 KMPH GUSTING TO 85 KMPH.

(NARESH KUMAR)  
SCIENTIST-E, RSMC, NEW DELHI



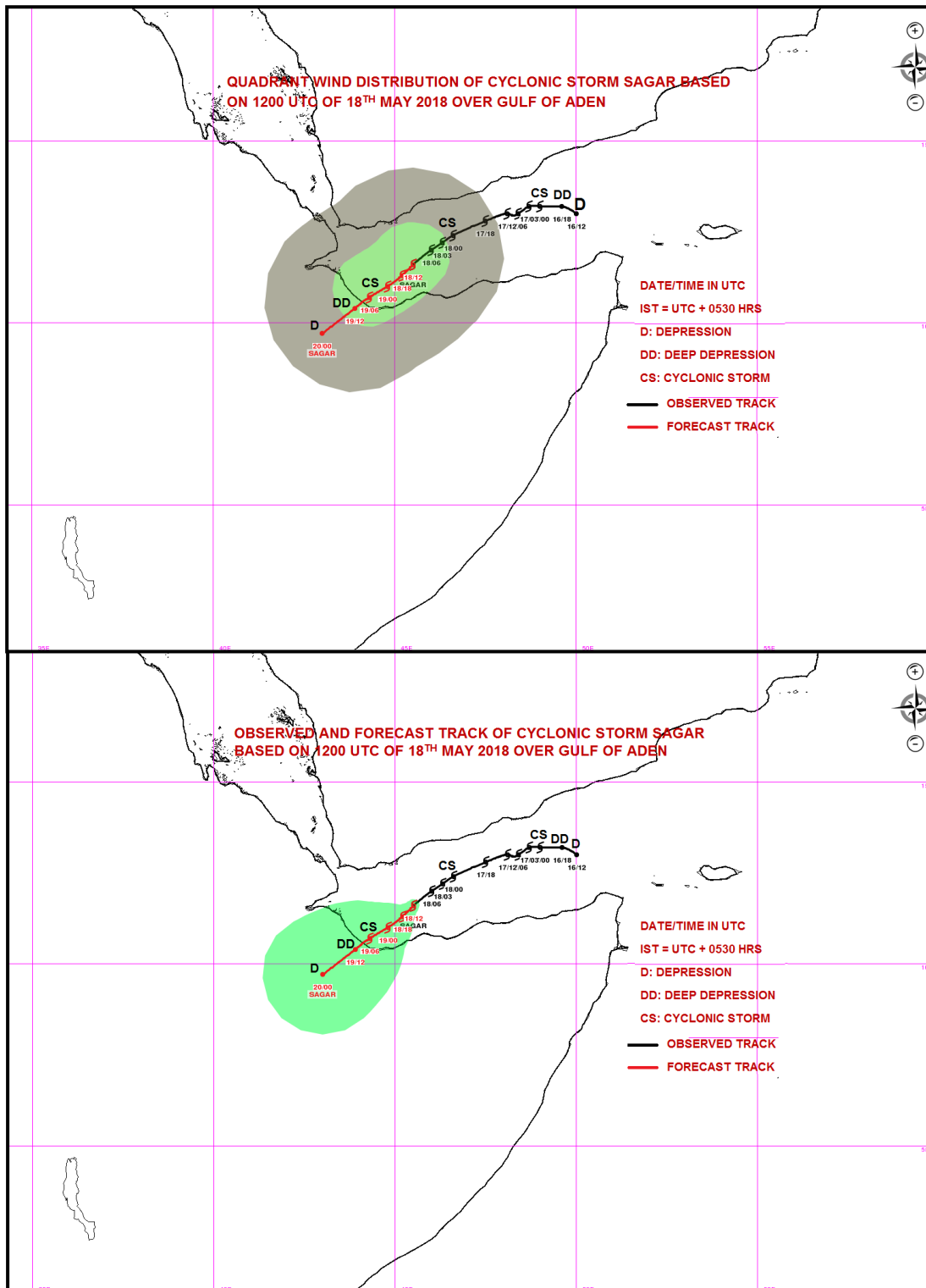
INSAT 3D IMAGERY OF 1230 UTC OF 18.05.2018

## PROBABILITY OF CYCLOGENESIS (FORMATION OF DEPRESSION)

NIL: 0%, LOW: 1-25%, FAIR: 26-50%, MODERATE: 51-75% AND HIGH: 76-100%

Contact: Phone: (91) 11-24652484 FAX: (91) 11-24623220 e-mail :cwdhq2008@gmail.com





**PROBABILITY OF CYCLOGENESIS (FORMATION OF DEPRESSION)**

**NIL: 0%, LOW: 1-25%, FAIR: 26-50%, MODERATE: 51-75% AND HIGH: 76-100%**

**Contact: Phone: (91) 11-24652484 FAX: (91) 11-24623220 e-mail :cwdhq2008@gmail.com**



**REGIONAL SPECIALISED METEOROLOGICAL CENTRE-TROPICAL CYCLONES, NEW DELHI**  
**TROPICAL CYCLONE ADVISORY BULLETIN**

**FROM: RSMC –TROPICAL CYCLONES, NEW DELHI**  
**TO: STORM WARNING CENTRE, NAYPYI TAW (MYANMAR)**  
**STORM WARNING CENTRE, BANGKOK (THAILAND)**  
**STORM WARNING CENTRE, COLOMBO (SRILANKA)**  
**STORM WARNING CENTRE, DHAKA (BANGLADESH)**  
**STORM WARNING CENTRE, KARACHI (PAKISTAN)**  
**METEOROLOGICAL OFFICE, MALE (MALDIVES)**  
**OMAN METEOROLOGICAL DEPARTMENT, MUSCAT (THROUGH RTH JEDDAH)**  
**YEMEN METEOROLOGICAL SERVICES, REPUBLIC OF YEMEN (THROUGH RTH JEDDAH)**

**TROPICAL STORM ‘SAGAR’ ADVISORY NO. THIRTEEN ISSUED AT 1800 UTC OF 18<sup>TH</sup> MAY 2018**  
**BASED ON 1500 UTC OF 18<sup>TH</sup> MAY 2018**

THE CYCLONIC STORM “SAGAR” OVER GULF OF ADEN MOVED FURTHER WEST-SOUTHWESTWARDS WITH A SPEED OF 8 KMPH DURING PAST 06 HOURS, AND LAY CENTERED AT 1500 UTC IST OF 18TH MAY 2018 OVER GULF OF ADEN NEAR LATITUDE 11.4°N AND LONGITUDE 45.3°E; ABOUT 170 KM SOUTH-SOUTHEAST OF ADEN (41480) AND 970 KM WEST-SOUTHWEST OF SOCOTRA ISLANDS(41494). IT IS VERY LIKELY TO CONTINUE TO MOVE WEST-SOUTHWESTWARDS AND WEAKEN GRADUALLY FROM 19<sup>TH</sup> MORNING AND CROSS SOMALIA COAST NEAR LONGITUDE 44°E BETWEEN 08 TO 11 UTC OF 19TH MAY 2018 AS A CYCLONIC STORM WITH WIND SPEED 65-75 KMPH GUSTING 85 KMPH AT THE TIME OF LANDFALL.

AS PER THE LATEST SATELLITE IMAGERY,THE INTENSITY OF THE SYSTEM IS T 3.0. ASSOCIATED SCATTERED LOW/MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION LIE OVER AREA BETWEEN LATITUDE 11.0N TO 14.0N LONGITUDE 44.0E TO 46.0E GULF OF ADEN, YEMEN ADJOINING SAUDI ARABIA, NORTH SOMALIA (MINIMUM CTT MINUS 93 ° C .

THE ESTIMATED CENTRAL PRESSURE IS ABOUT 994 HPA AND THE MAXIMUM SUSTAINED SURFACE WIND SPEED IS 45 KNOTS GUSTING TO 55 KNOTS. STATE OF SEA IS HIGH TO VERY HIGH AROUND THE SYSTEM CENTRE.

DATE/TIME(UTC)	POSITION (LAT. °N/ LONG. °E)	MAXIMUM SUSTAINED SURFACE WIND SPEED (KMPH)	CATEGORY OF CYCLONIC DISTURBANCE
18/1500	11.4/45.3	80-90 GUSTING TO 100	CYCLONIC STORM
18/1800	11.3/45.2	80-90 GUSTING TO 100	CYCLONIC STORM
19/0000	11.0/44.8	80-90 GUSTING TO 100	CYCLONIC STORM
19/0600	10.7/44.3	75-85 GUSTING TO 95	CYCLONIC STORM
19/1200	10.4/43.9	55-65 GUSTING TO 75	DEEP DEPRESSION
20/0000	9.7/43.0	45-55 GUSTING TO 65	DEPRESSION

**PROBABILITY OF CYCLOGENESIS (FORMATION OF DEPRESSION)**

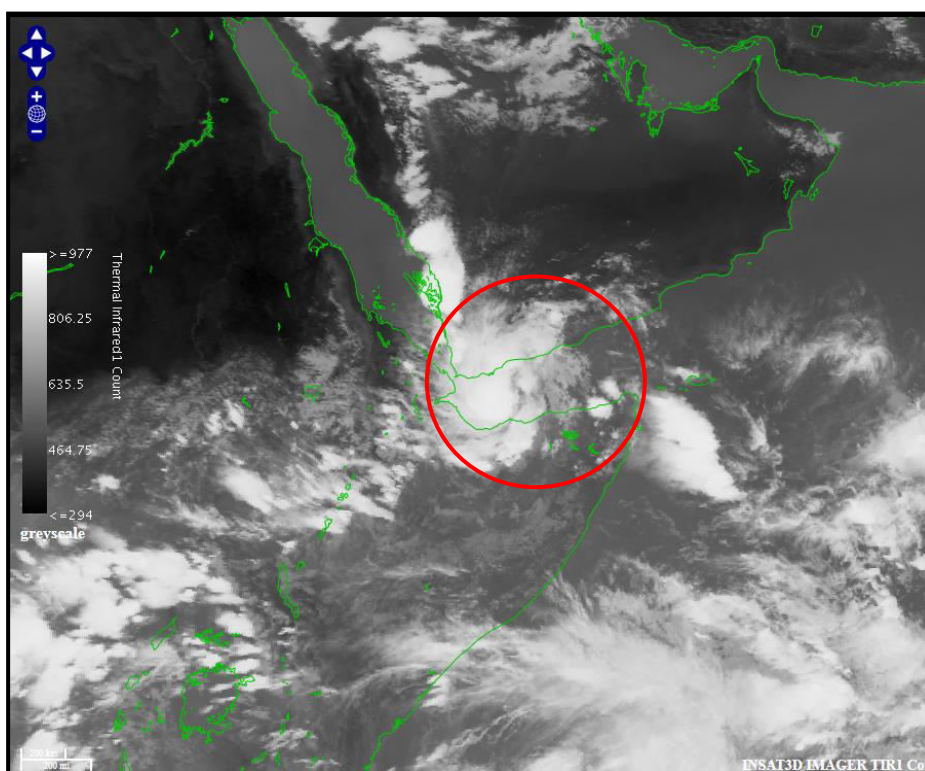
**NIL: 0%, LOW: 1-25%, FAIR: 26-50%, MODERATE: 51-75% AND HIGH: 76-100%**

**Contact: Phone: (91) 11-24652484 FAX: (91) 11-24623220 e-mail :cwdhq2008@gmail.com**

## REMARKS:

THE SEA SURFACE TEMPERATURE (SST) IS 30-32<sup>0</sup> C OVER THE SYSTEM AREA. THE TROPICAL CYCLONE HEAT POTENTIAL IS ABOUT 50 KJ/CM<sup>2</sup> OVER THE REGION OF THE SYSTEM. THERE IS A MAXIMA OF VALUE 20 X10<sup>-5</sup> S<sup>-1</sup> IN LOW LEVEL CONVERGENCE TO THE SOUTH OF THE SYSTEM CENTRE. THE UPPER LEVEL DIVERGENCE IS ABOUT 10 X10<sup>-5</sup> S<sup>-1</sup> AROUND THE SYSTEM CENTRE. VORTICITY AT 850 HPA LEVEL IS ABOUT 100X10<sup>-6</sup> S<sup>-1</sup> TO THE SOUTH OF THE SYSTEM CENTRE. VERTICAL WIND SHEAR IS LOW (05-10 KTS) AROUND THE SYSTEM CENTRE. IT INCREASES TOWARDS YEMEN AND OMAN COASTS. UPPER TROPOSPHERIC RIDGE LIES ALONG LATITUDE 12.0<sup>0</sup>N NEAR LONGITUDE 50<sup>0</sup>E. AS THE SYSTEM MOVES WEST-SOUTHWESTWARDS, IT WILL GRADUALLY COME CLOSER TO LAND SURFACE AND HENCE THERE MAY BE LAND INTERACTION LEADING TO GRADUAL WEAKENING FROM TOMORROW, THE 19-05.2018 MORNING. FURTHER, THE SYSTEM MAY ENCOUNTER THE HIGH VERTICAL WIND SHEAR AS IT MOVES CLOSER TO SOMALIA COAST. THE TOTAL PRECIPITABLE WATER IMAGERY INDICATES RELATIVELY DRY AIR CONDITION IN THE OUTER PERIPHERY OF THE SYSTEM IN SOUTHWESTERN SECTOR COVERING SOMALIA. CONSIDERING ALL THESE, THERE IS POSSIBILITY OF GRADUAL WEAKENING FROM TOMORROW, THE 19-05.2018 MORNING. HOWEVER, IT MAY CROSS SOMALIA COAST AS A CYCLONIC STORM WITH A WIND SPEED OF 65-75 KMPH GUSTING TO 85 KMPH.

(S.D.KOTAL)  
SCIENTIST-E, RSMC, NEW DELHI

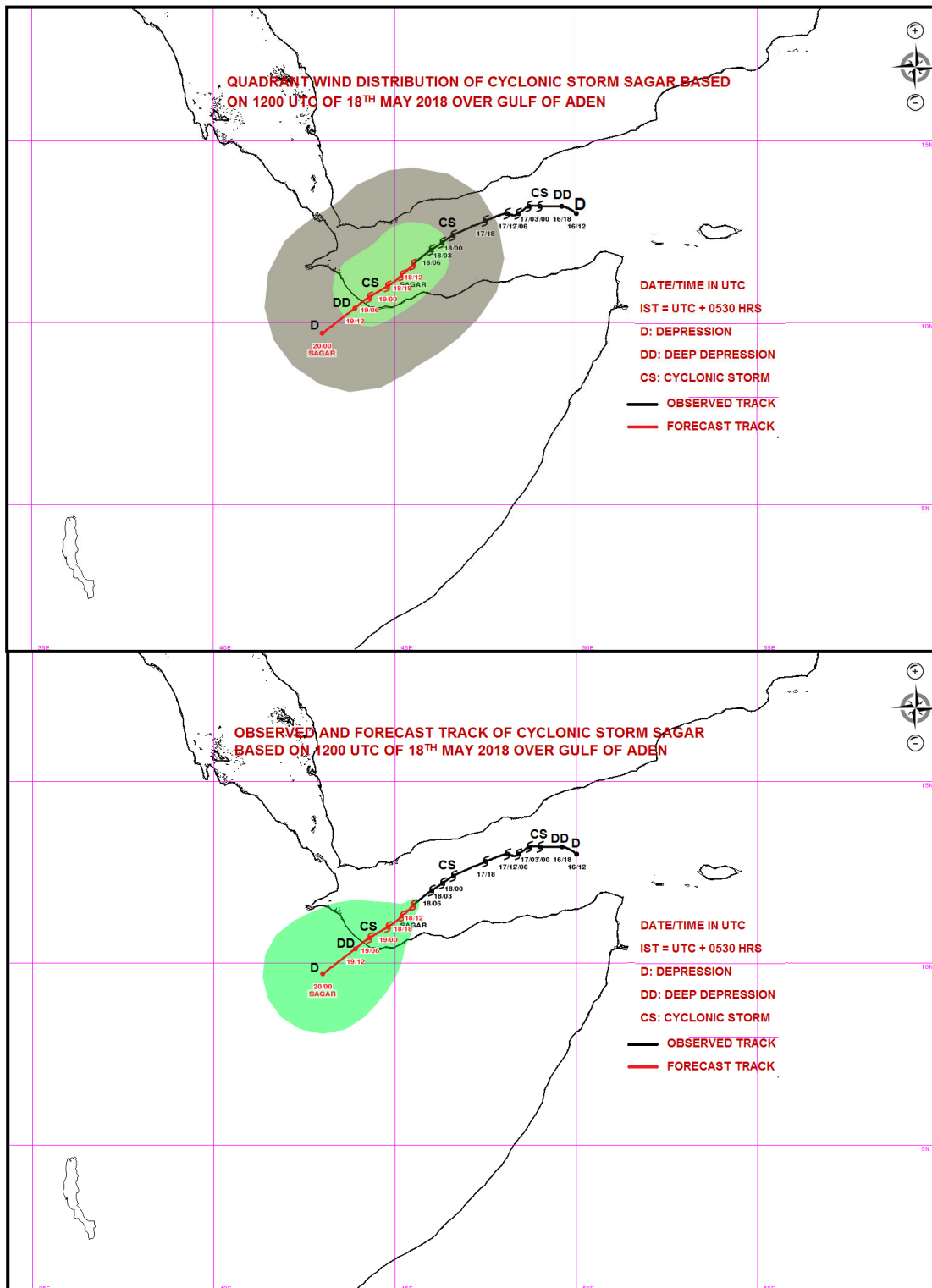


INSAT 3D IMAGERY OF 1500 UTC OF 18.05.2018

## PROBABILITY OF CYCLOGENESIS (FORMATION OF DEPRESSION)

NIL: 0%, LOW: 1-25%, FAIR: 26-50%, MODERATE: 51-75% AND HIGH: 76-100%

Contact: Phone: (91) 11-24652484 FAX: (91) 11-24623220 e-mail :cwdhq2008@gmail.com



**PROBABILITY OF CYCLOGENESIS (FORMATION OF DEPRESSION)**

**NIL: 0%, LOW: 1-25%, FAIR: 26-50%, MODERATE: 51-75% AND HIGH: 76-100%**

**Contact: Phone: (91) 11-24652484 FAX: (91) 11-24623220 e-mail :cwdhq2008@gmail.com**



**REGIONAL SPECIALISED METEOROLOGICAL CENTRE-TROPICAL CYCLONES, NEW DELHI**  
**TROPICAL CYCLONE ADVISORY BULLETIN**

**FROM: RSMC –TROPICAL CYCLONES, NEW DELHI**  
**TO: STORM WARNING CENTRE, NAYPYI TAW (MYANMAR)**  
**STORM WARNING CENTRE, BANGKOK (THAILAND)**  
**STORM WARNING CENTRE, COLOMBO (SRILANKA)**  
**STORM WARNING CENTRE, DHAKA (BANGLADESH)**  
**STORM WARNING CENTRE, KARACHI (PAKISTAN)**  
**METEOROLOGICAL OFFICE, MALE (MALDIVES)**  
**OMAN METEOROLOGICAL DEPARTMENT, MUSCAT (THROUGH RTH JEDDAH)**  
**YEMEN METEOROLOGICAL SERVICES, REPUBLIC OF YEMEN (THROUGH RTH JEDDAH)**

**TROPICAL STORM ‘SAGAR’ ADVISORY NO. FOURTEEN ISSUED AT 2100 UTC OF 18<sup>TH</sup> MAY 2018**  
**BASED ON 1800 UTC OF 18<sup>TH</sup> MAY 2018**

THE CYCLONIC STORM “SAGAR” OVER GULF OF ADEN MOVED FURTHER WEST-SOUTHWESTWARDS WITH A SPEED OF 8 KMPH DURING PAST 06 HOURS, AND LAY CENTERED AT 1800 UTC OF 18TH MAY 2018 OVER GULF OF ADEN NEAR LATITUDE 11.3°N AND LONGITUDE 45.2°E; ABOUT 150 KM SOUTH-SOUTHEAST OF ADEN (41480) AND 960 KM WEST-SOUTHWEST OF SOCOTRA ISLANDS(41494). IT IS VERY LIKELY TO CONTINUE TO MOVE WEST-SOUTHWESTWARDS AND WEAKEN GRADUALLY FROM 19<sup>TH</sup> MORNING AND CROSS SOMALIA COAST NEAR LONGITUDE 44°E DURING THE AFTERNOON OF 19TH MAY 2018 AS A CYCLONIC STORM WITH WIND SPEED 65-75 KMPH GUSTING 85 KMPH AT THE TIME OF LANDFALL.

AS PER THE LATEST SATELLITE IMAGERY,THE INTENSITY OF THE SYSTEM IS T 3.0 ASSOCIATED SCATTERED LOW AND MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION LIE OVER AREA BETWEEN LATITUDE 11.0N TO 14.0N LONGITUDE 44.0E TO 46.0E GULF OF ADEN, YEMEN ADJOINING SAUDI ARABIA, NORTH SOMALIA. MINIMUM CTT MINUS 93 DEG C.

THE ESTIMATED CENTRAL PRESSURE IS ABOUT 994 HPA AND THE MAXIMUM SUSTAINED SURFACE WIND SPEED IS 45 KNOTS GUSTING TO 55 KNOTS. STATE OF SEA IS HIGH TO VERY HIGH AROUND THE SYSTEM CENTRE.

Date/Time(IST)	Position (Lat. °N/ long. °E)	Maximum sustained surface wind speed (kmph)	Category of cyclonic disturbance
18/1800	11.3/45.2	80-90 GUSTING TO 100	CYCLONIC STORM
19/0000	11.0/44.7	80-90 GUSTING TO 100	CYCLONIC STORM
19/0600	10.7/44.2	80-90 GUSTING TO 100	CYCLONIC STORM
19/1200	10.4/43.7	75-85 GUSTING TO 95	CYCLONIC STORM
19/1800	10.1/43.2	55-65 GUSTING TO 75	DEEP DEPRESSION
20/0600	9.9/42.8	45-55 GUSTING TO 65	DEPRESSION

**PROBABILITY OF CYCLOGENESIS (FORMATION OF DEPRESSION)**

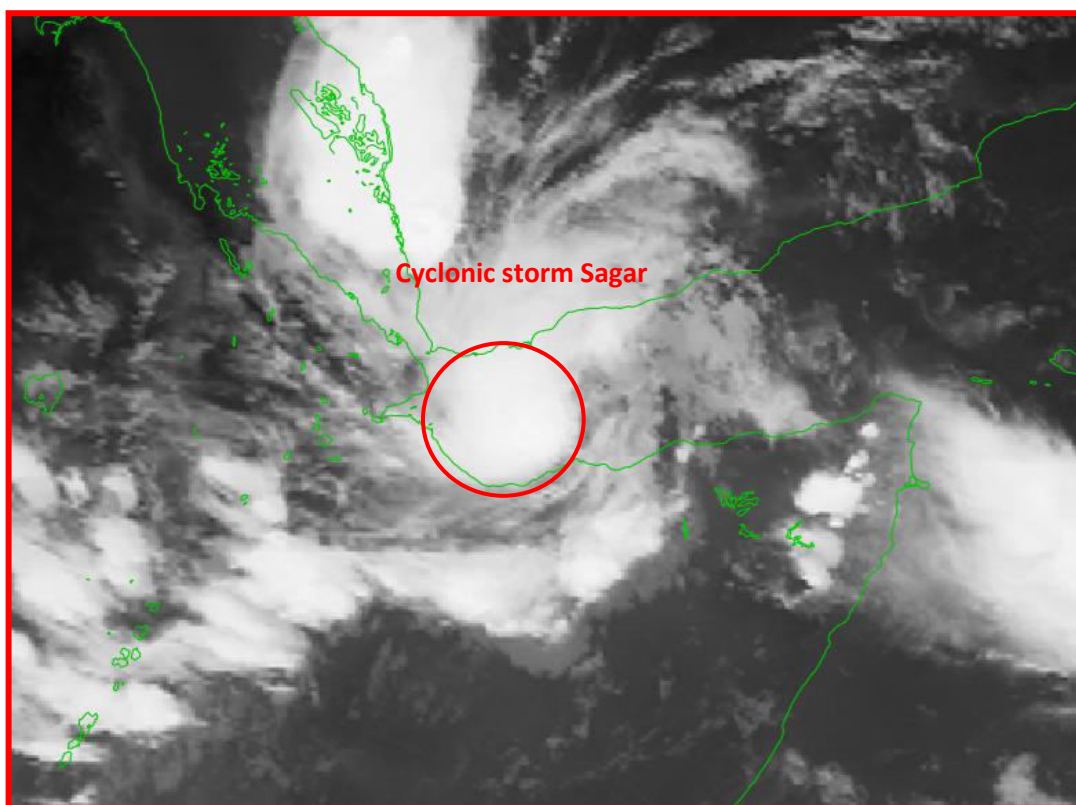
**NIL: 0%, LOW: 1-25%, FAIR: 26-50%, MODERATE: 51-75% AND HIGH: 76-100%**

**Contact: Phone: (91) 11-24652484 FAX: (91) 11-24623220 e-mail :cwdhq2008@gmail.com**

**REMARKS:**

THE SEA SURFACE TEMPERATURE (SST) IS 30-32° C OVER THE SYSTEM AREA. THE TROPICAL CYCLONE HEAT POTENTIAL IS ABOUT 50 KJ/CM<sup>2</sup> OVER THE REGION OF THE SYSTEM. THERE IS A MAXIMA OF VALUE 20 X10<sup>-5</sup> S<sup>-1</sup> IN LOW LEVEL CONVERGENCE TO THE SOUTH OF THE SYSTEM CENTRE. THE UPPER LEVEL DIVERGENCE IS ABOUT 10 X10<sup>-5</sup> S<sup>-1</sup> AROUND THE SYSTEM CENTRE. VORTICITY AT 850 HPA LEVEL IS ABOUT 100X10<sup>-6</sup> S<sup>-1</sup> TO THE SOUTH OF THE SYSTEM CENTRE. VERTICAL WIND SHEAR IS LOW (05-10 KTS) AROUND THE SYSTEM CENTRE. IT INCREASES TOWARDS YEMEN AND OMAN COASTS. UPPER TROPOSPHERIC RIDGE LIES ALONG LATITUDE 12.0°N NEAR LONGITUDE 50°E. AS THE SYSTEM MOVES WEST-SOUTHWESTWARDS, IT WILL GRADUALLY COME CLOSER TO LAND SURFACE AND HENCE THERE MAY BE LAND INTERACTION LEADING TO GRADUAL WEAKENING FROM TOMORROW, THE 19-05.2018 MORNING. FURTHER, THE SYSTEM MAY ENCOUNTER THE HIGH VERTICAL WIND SHEAR AS IT MOVES CLOSER TO SOMALIA COAST. THE TOTAL PRECIPITABLE WATER IMAGERY INDICATES RELATIVELY DRY AIR CONDITION IN THE OUTER PERIPHERY OF THE SYSTEM IN SOUTHWESTERN SECTOR COVERING SOMALIA. CONSIDERING ALL THESE, THERE IS POSSIBILITY OF GRADUAL WEAKENING FROM TOMORROW, THE 19-05.2018 MORNING. HOWEVER, IT MAY CROSS SOMALIA COAST AS A CYCLONIC STORM WITH A WIND SPEED OF 65-75 KMPH GUSTING TO 85 KMPH.

(S.D.KOTAL)  
SCIENTIST-E, RSMC, NEW DELHI



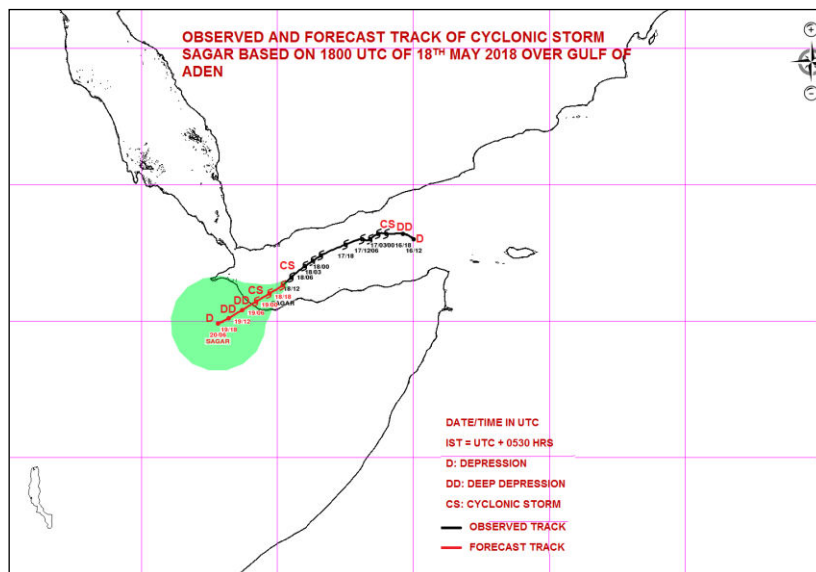
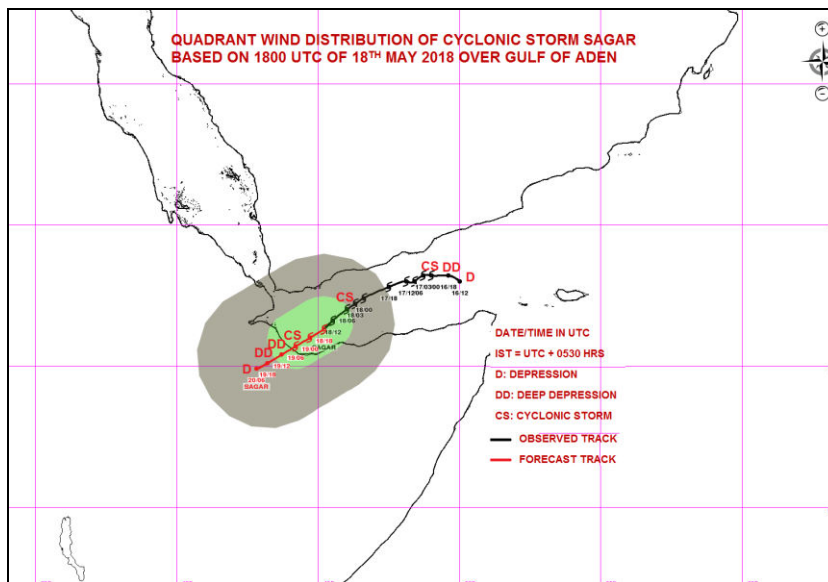
INSAT 3D IMAGERY OF 1800 UTC OF 18.05.2018

**PROBABILITY OF CYCLOGENESIS (FORMATION OF DEPRESSION)**

**NIL: 0%, LOW: 1-25%, FAIR: 26-50%, MODERATE: 51-75% AND HIGH: 76-100%**

**Contact: Phone: (91) 11-24652484 FAX: (91) 11-24623220 e-mail :cwdhq2008@gmail.com**





**PROBABILITY OF CYCLOGENESIS (FORMATION OF DEPRESSION)**

**NIL: 0%, LOW: 1-25%, FAIR: 26-50%, MODERATE: 51-75% AND HIGH: 76-100%**

**Contact: Phone: (91) 11-24652484 FAX: (91) 11-24623220 e-mail :cwdhq2008@gmail.com**



**REGIONAL SPECIALISED METEOROLOGICAL CENTRE-TROPICAL CYCLONES, NEW DELHI**  
**TROPICAL CYCLONE ADVISORY BULLETIN**

**FROM: RSMC –TROPICAL CYCLONES, NEW DELHI**  
**TO: STORM WARNING CENTRE, NAYPYI TAW (MYANMAR)**  
**STORM WARNING CENTRE, BANGKOK (THAILAND)**  
**STORM WARNING CENTRE, COLOMBO (SRILANKA)**  
**STORM WARNING CENTRE, DHAKA (BANGLADESH)**  
**STORM WARNING CENTRE, KARACHI (PAKISTAN)**  
**METEOROLOGICAL OFFICE, MALE (MALDIVES)**  
**OMAN METEOROLOGICAL DEPARTMENT, MUSCAT (THROUGH RTH JEDDAH)**  
**YEMEN METEOROLOGICAL SERVICES, REPUBLIC OF YEMEN (THROUGH RTH JEDDAH)**

**TROPICAL STORM ‘SAGAR’ ADVISORY NO. FIFTEEN ISSUED AT 2300 UTC OF 18<sup>TH</sup> MAY 2018**  
**BASED ON 2100 UTC OF 18<sup>TH</sup> MAY 2018**

THE CYCLONIC STORM “SAGAR” OVER GULF OF ADEN MOVED FURTHER WEST-SOUTHWESTWARDS WITH A SPEED OF 6 KMPH DURING PAST 06 HOURS, AND LAY CENTERED AT 2100 UTC OF 18TH MAY 2018 OVER GULF OF ADEN NEAR LATITUDE 11.2°N AND LONGITUDE 45.0°E; ABOUT 160 KM SOUTH-SOUTHEAST OF ADEN (41480) AND 980 KM WEST-SOUTHWEST OF SOCOTRA ISLANDS(41494). IT IS VERY LIKELY TO CONTINUE TO MOVE WEST-SOUTHWESTWARDS AND WEAKEN GRADUALLY FROM 19<sup>TH</sup> MORNING AND CROSS SOMALIA COAST NEAR LONGITUDE 44°E DURING THE AFTERNOON OF 19TH MAY 2018 AS A CYCLONIC STORM WITH WIND SPEED 65-75 KMPH GUSTING 85 KMPH AT THE TIME OF LANDFALL.

AS PER THE LATEST SATELLITE IMAGERY, THE INTENSITY OF THE SYSTEM IS T 3.0 ASSOCIATED SCATTERED LOW AND MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION LIE OVER AREA BETWEEN LATITUDE 11.0N TO 14.0N LONGITUDE 44.0E TO 46.0E GULF OF ADEN, YEMEN ADJOINING SAUDI ARABIA, NORTH SOMALIA. MINIMUM CTT MINUS 93 DEG C.

THE ESTIMATED CENTRAL PRESSURE IS ABOUT 994 HPA AND THE MAXIMUM SUSTAINED SURFACE WIND SPEED IS 45 KNOTS GUSTING TO 55 KNOTS. STATE OF SEA IS HIGH TO VERY HIGH AROUND THE SYSTEM CENTRE.

Date/Time(IST)	Position (Lat. °N/ long. °E)	Maximum sustained surface wind speed (kmph)	Category of cyclonic disturbance
18/2100	11.2/45.0	80-90 GUSTING TO 100	CYCLONIC STORM
19/0000	11.0/44.7	80-90 GUSTING TO 100	CYCLONIC STORM
19/0600	10.7/44.2	80-90 GUSTING TO 100	CYCLONIC STORM
19/1200	10.4/43.7	75-85 GUSTING TO 95	CYCLONIC STORM
19/1800	10.1/43.2	55-65 GUSTING TO 75	DEEP DEPRESSION
20/0600	9.9/42.8	45-55 GUSTING TO 65	DEPRESSION

**PROBABILITY OF CYCLOGENESIS (FORMATION OF DEPRESSION)**

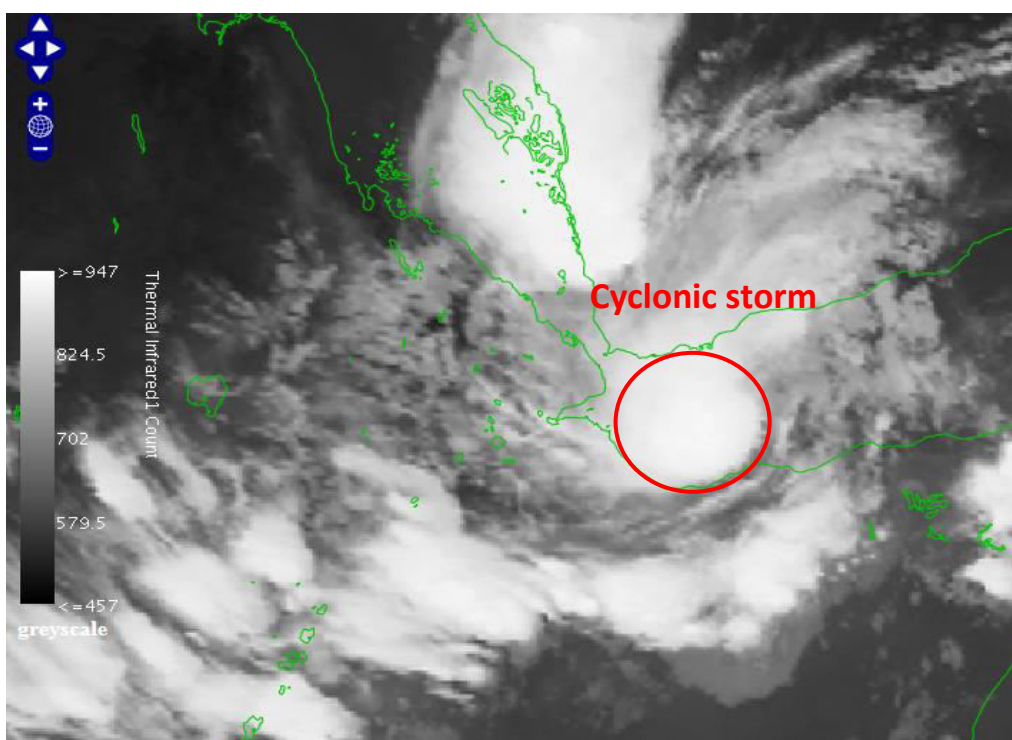
**NIL: 0%, LOW: 1-25%, FAIR: 26-50%, MODERATE: 51-75% AND HIGH: 76-100%**

**Contact: Phone: (91) 11-24652484 FAX: (91) 11-24623220 e-mail :cwdhq2008@gmail.com**

## REMARKS:

THE SEA SURFACE TEMPERATURE (SST) IS 30-32<sup>0</sup> C OVER THE SYSTEM AREA. THE TROPICAL CYCLONE HEAT POTENTIAL IS ABOUT 50 KJ/CM<sup>2</sup> OVER THE REGION OF THE SYSTEM. THERE IS A MAXIMA OF VALUE 20 X10<sup>-5</sup> S<sup>-1</sup> IN LOW LEVEL CONVERGENCE TO THE SOUTH OF THE SYSTEM CENTRE. THE UPPER LEVEL DIVERGENCE IS ABOUT 10 X10<sup>-5</sup> S<sup>-1</sup> AROUND THE SYSTEM CENTRE. VORTICITY AT 850 HPA LEVEL IS ABOUT 100X10<sup>-6</sup> S<sup>-1</sup> TO THE SOUTH OF THE SYSTEM CENTRE. VERTICAL WIND SHEAR IS LOW (05-10 KTS) AROUND THE SYSTEM CENTRE. IT INCREASES TOWARDS YEMEN AND OMAN COASTS. UPPER TROPOSPHERIC RIDGE LIES ALONG LATITUDE 12.0<sup>0</sup>N NEAR LONGITUDE 50<sup>0</sup>E. AS THE SYSTEM MOVES WEST-SOUTHWESTWARDS, IT WILL GRADUALLY COME CLOSER TO LAND SURFACE AND HENCE THERE MAY BE LAND INTERACTION LEADING TO GRADUAL WEAKENING FROM TOMORROW, THE 19-05.2018 MORNING. FURTHER, THE SYSTEM MAY ENCOUNTER THE HIGH VERTICAL WIND SHEAR AS IT MOVES CLOSER TO SOMALIA COAST. THE TOTAL PRECIPITABLE WATER IMAGERY INDICATES RELATIVELY DRY AIR CONDITION IN THE OUTER PERIPHERY OF THE SYSTEM IN SOUTHWESTERN SECTOR COVERING SOMALIA. CONSIDERING ALL THESE, THERE IS POSSIBILITY OF GRADUAL WEAKENING FROM TOMORROW, THE 19-05.2018 MORNING. HOWEVER, IT MAY CROSS SOMALIA COAST AS A CYCLONIC STORM WITH A WIND SPEED OF 65-75 KMPH GUSTING TO 85 KMPH.

(S.D.KOTAL)  
SCIENTIST-E, RSMC, NEW DELHI

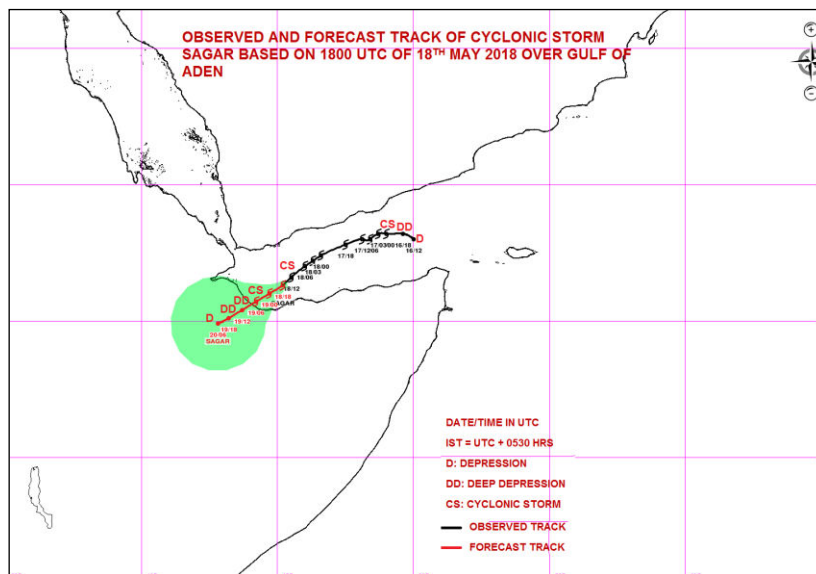
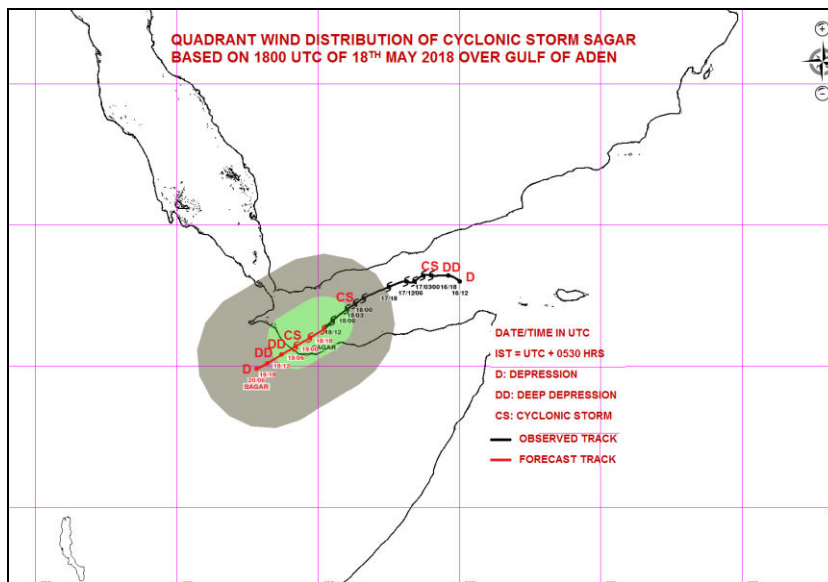


INSAT 3D IMAGERY OF 2100 UTC OF 18.05.2018

## PROBABILITY OF CYCLOGENESIS (FORMATION OF DEPRESSION)

NIL: 0%, LOW: 1-25%, FAIR: 26-50%, MODERATE: 51-75% AND HIGH: 76-100%

Contact: Phone: (91) 11-24652484 FAX: (91) 11-24623220 e-mail :cwdhq2008@gmail.com



**PROBABILITY OF CYCLOGENESIS (FORMATION OF DEPRESSION)**

**NIL: 0%, LOW: 1-25%, FAIR: 26-50%, MODERATE: 51-75% AND HIGH: 76-100%**

**Contact: Phone: (91) 11-24652484 FAX: (91) 11-24623220 e-mail :cwdhq2008@gmail.com**



**REGIONAL SPECIALISED METEOROLOGICAL CENTRE-TROPICAL CYCLONES, NEW DELHI**  
**TROPICAL CYCLONE ADVISORY BULLETIN**

**FROM: RSMC –TROPICAL CYCLONES, NEW DELHI**  
**TO: STORM WARNING CENTRE, NAYPYI TAW (MYANMAR)**  
**STORM WARNING CENTRE, BANGKOK (THAILAND)**  
**STORM WARNING CENTRE, COLOMBO (SRILANKA)**  
**STORM WARNING CENTRE, DHAKA (BANGLADESH)**  
**STORM WARNING CENTRE, KARACHI (PAKISTAN)**  
**METEOROLOGICAL OFFICE, MALE (MALDIVES)**  
**OMAN METEOROLOGICAL DEPARTMENT, MUSCAT (THROUGH RTH JEDDAH)**  
**YEMEN METEOROLOGICAL SERVICES, REPUBLIC OF YEMEN (THROUGH RTH JEDDAH)**

**TROPICAL STORM 'SAGAR' ADVISORY NO. SIXTEEN ISSUED AT 0300 UTC OF 19<sup>TH</sup> MAY 2018**  
**BASED ON 0000 UTC OF 19<sup>TH</sup> MAY 2018**

THE CYCLONIC STORM "SAGAR" OVER GULF OF ADEN MOVED FURTHER WEST-SOUTHWESTWARDS WITH A SPEED OF 8 KMPH DURING PAST 6 HOURS, AND LAY CENTERED AT 0530 HRS IST OF 19<sup>TH</sup> MAY 2018 OVER GULF OF ADEN NEAR LATITUDE 11.1°N AND LONGITUDE 44.8°E; ABOUT 170 KM SOUTH-SOUTHEAST OF ADEN (41480), YEMEN AND 1000 KM WEST-SOUTHWEST OF SOCOTRA ISLANDS(41494). IT IS VERY LIKELY TO CONTINUE TO MOVE WEST-SOUTHWESTWARDS AND WEAKEN GRADUALLY AND CROSS SOMALIA COAST NEAR LONGITUDE 44°E DURING 0900 to 1100 UTC OF TODAY, THE 19<sup>TH</sup> MAY 2018 AS A CYCLONIC STORM WITH WIND SPEED 65-75 KMPH GUSTING TO 85 KMPH AT THE TIME OF LANDFALL.

AS PER THE LATEST SATELLITE IMAGERY, THE INTENSITY OF THE SYSTEM IS T 3.0 ASSOCIATED SCATTERED LOW AND MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION LIE OVER AREA BETWEEN LATITUDE 10.5 N TO 14.0N LONGITUDE 44.0E TO 46.0E GULF OF ADEN, YEMEN ADJOINING SAUDI ARABIA, NORTH SOMALIA. MINIMUM CTT MINUS 93 DEG C.

THE ESTIMATED CENTRAL PRESSURE IS ABOUT 994 HPA AND THE MAXIMUM SUSTAINED SURFACE WIND SPEED IS 45 KNOTS GUSTING TO 55 KNOTS. STATE OF SEA IS HIGH TO VERY HIGH AROUND THE SYSTEM CENTRE.

Date/Time(UTC)	Position (Lat. °N/ long. °E)	Maximum sustained surface wind speed (kmph)	Category of cyclonic disturbance
19/0000	11.1/44.8	80-90 GUSTING TO 100	CYCLONIC STORM
19/0600	10.9/44.4	75-85 GUSTING TO 95	CYCLONIC STORM
19/1200	10.6/44.9	65-75 GUSTING TO 85	CYCLONIC STORM
19/1800	10.3/43.5	55-65 GUSTING TO 75	DEEP DEPRESSION
20/0000	10.0/43.1	45-55 GUSTING TO 65	DEPRESSION

**PROBABILITY OF CYCLOGENESIS (FORMATION OF DEPRESSION)**

**NIL: 0%, LOW: 1-25%, FAIR: 26-50%, MODERATE: 51-75% AND HIGH: 76-100%**

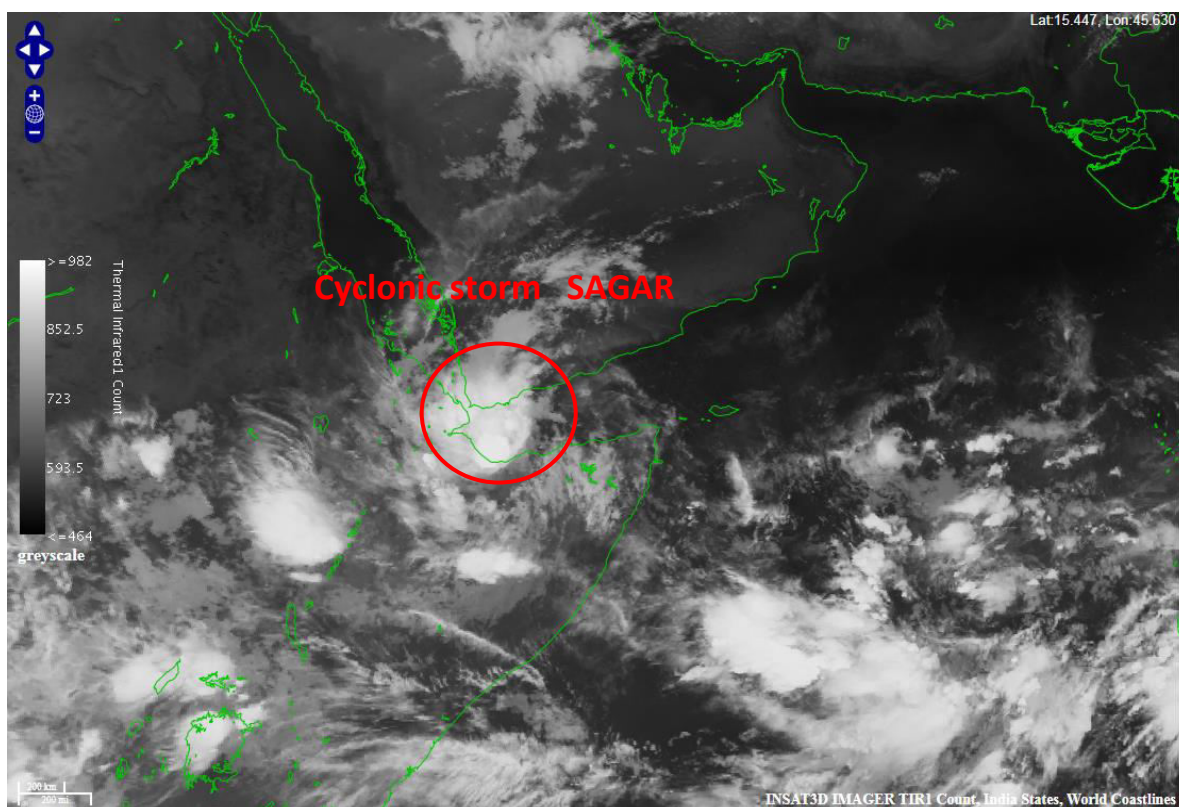
**Contact: Phone: (91) 11-24652484 FAX: (91) 11-24623220 e-mail :cwdhq2008@gmail.com**



## REMARKS:

THE SEA SURFACE TEMPERATURE (SST) IS 30-31<sup>0</sup> C OVER THE SYSTEM AREA. THE TROPICAL CYCLONE HEAT POTENTIAL IS ABOUT 50 KJ/CM<sup>2</sup> OVER THE REGION OF THE SYSTEM. THERE IS A MAXIMA OF VALUE 25 X10<sup>-5</sup> S<sup>-1</sup> IN LOW LEVEL CONVERGENCE TO THE SOUTH OF THE SYSTEM CENTRE. THE UPPER LEVEL DIVERGENCE IS ABOUT 20 X10<sup>-5</sup> S<sup>-1</sup> AROUND THE SYSTEM CENTRE. VORTICITY AT 850 HPA LEVEL IS ABOUT 90X10<sup>-6</sup> S<sup>-1</sup> TO THE SOUTH OF THE SYSTEM CENTRE. VERTICAL WIND SHEAR IS LOW (05-10 KTS) AROUND THE SYSTEM CENTRE. IT INCREASES TOWARDS YEMEN AND OMAN COASTS. UPPER TROPOSPHERIC RIDGE LIES ALONG LATITUDE 14.0<sup>0</sup>N NEAR LONGITUDE 45<sup>0</sup>E. AS THE SYSTEM MOVES WEST-SOUTHWESTWARDS, IT IS GRADUALLY COMING CLOSER TO LAND SURFACE AND HENCE THERE IS LAND INTERACTION. THE TOTAL PRECIPITABLE WATER IMAGERY INDICATES RELATIVELY DRY AIR CONDITION IN THE PERIPHERY OF THE SYSTEM IN SOUTHERN SECTOR COVERING SOMALIA. IT WILL LEADS TO GRADUAL WEAKENING. HOWEVER, IT WOULD CROSS SOMALIA COAST NEAR LONGITUDE 44 DEG. EAST DURING 0900 to 1100 UTC OF TODAY, THE 19<sup>TH</sup> MAY 2018 AS A CYCLONIC STORM WITH WIND SPEED 65-75 KMPH GUSTING TO 85 KMPH.

(V.R.DURAI)  
SCIENTIST-E, RSMC, NEW DELHI



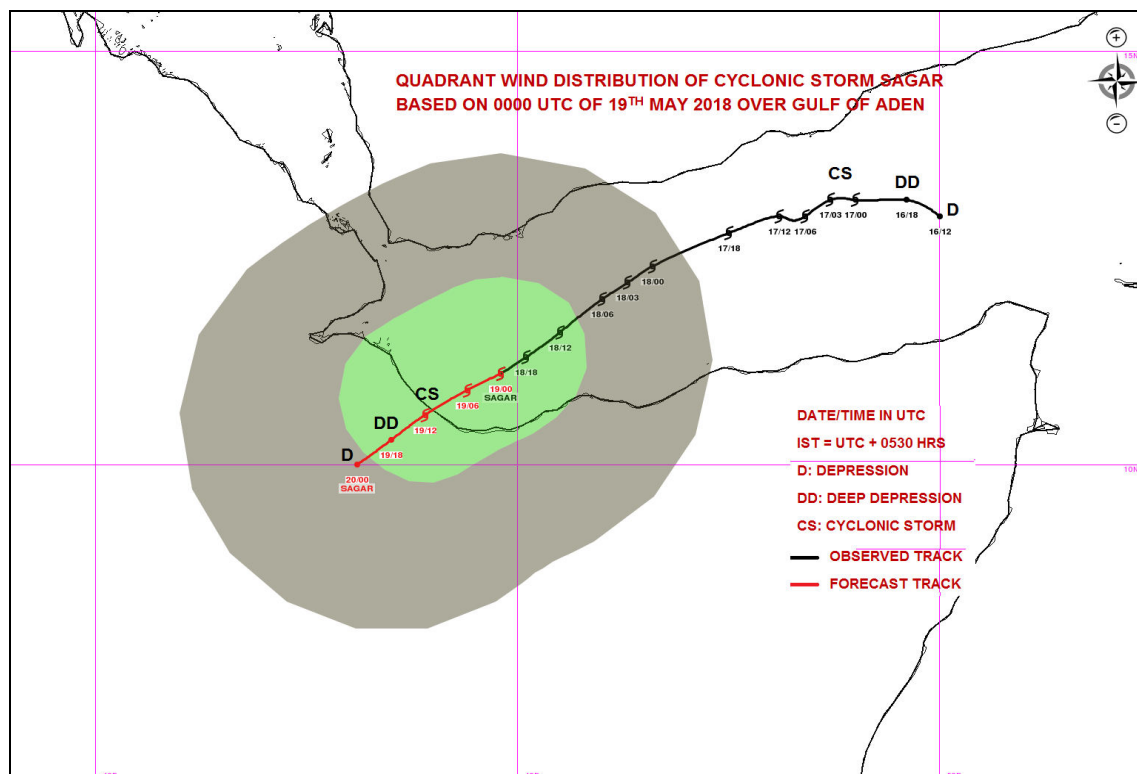
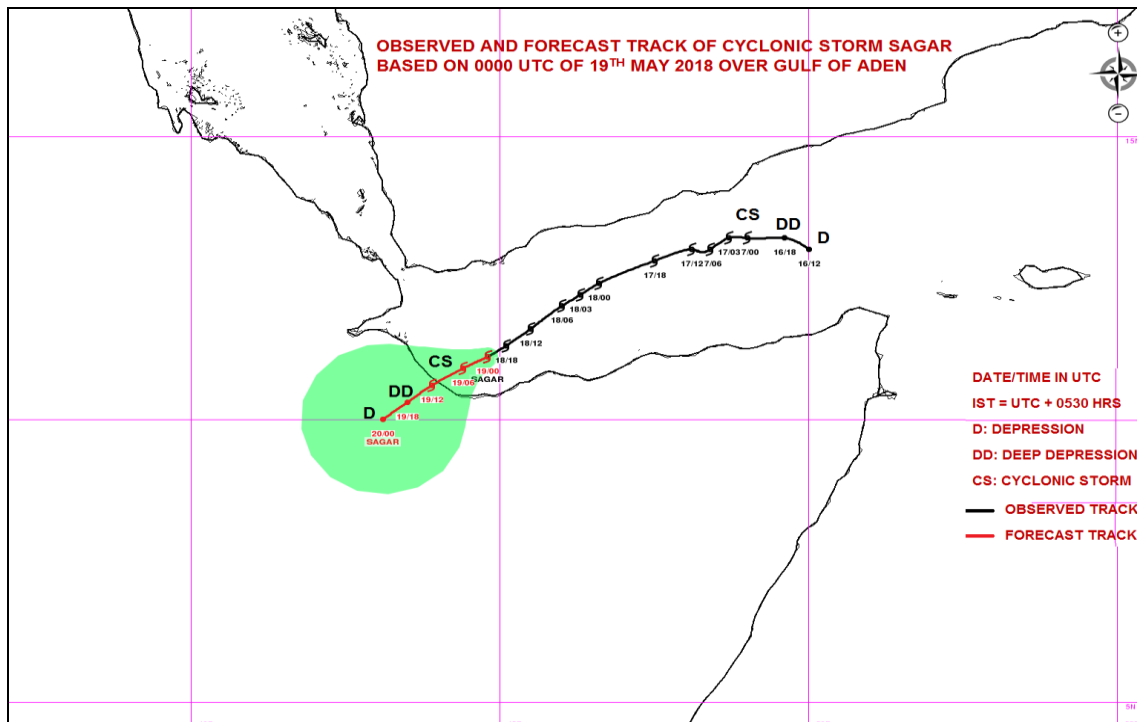
INSAT 3D IMAGERY AT 0530 IST OF 19 MAY 2018

## PROBABILITY OF CYCLOGENESIS (FORMATION OF DEPRESSION)

NIL: 0%, LOW: 1-25%, FAIR: 26-50%, MODERATE: 51-75% AND HIGH: 76-100%

Contact: Phone: (91) 11-24652484 FAX: (91) 11-24623220 e-mail :cwdhq2008@gmail.com





**PROBABILITY OF CYCLOGENESIS (FORMATION OF DEPRESSION)**

NIL: 0%, LOW: 1-25%, FAIR: 26-50%, MODERATE: 51-75% AND HIGH: 76-100%

Contact: Phone: (91) 11-24652484 FAX: (91) 11-24623220 e-mail :cwdhq2008@gmail.com



**REGIONAL SPECIALISED METEOROLOGICAL CENTRE-TROPICAL CYCLONES, NEW DELHI**  
**TROPICAL CYCLONE ADVISORY BULLETIN**

**FROM: RSMC –TROPICAL CYCLONES, NEW DELHI**  
**TO: STORM WARNING CENTRE, NAYPYI TAW (MYANMAR)**  
**STORM WARNING CENTRE, BANGKOK (THAILAND)**  
**STORM WARNING CENTRE, COLOMBO (SRILANKA)**  
**STORM WARNING CENTRE, DHAKA (BANGLADESH)**  
**STORM WARNING CENTRE, KARACHI (PAKISTAN)**  
**METEOROLOGICAL OFFICE, MALE (MALDIVES)**  
**OMAN METEOROLOGICAL DEPARTMENT, MUSCAT (THROUGH RTH JEDDAH)**  
**YEMEN METEOROLOGICAL SERVICES, REPUBLIC OF YEMEN (THROUGH RTH JEDDAH)**

**TROPICAL STORM ‘SAGAR’ ADVISORY NO. SEVENTEEN ISSUED AT 0600 UTC OF 19<sup>TH</sup> MAY 2018**  
**BASED ON 0300 UTC OF 19<sup>TH</sup> MAY 2018**

THE CYCLONIC STORM “SAGAR” OVER GULF OF ADEN MOVED FURTHER WEST-SOUTHWESTWARDS WITH A SPEED OF 12 KMPH DURING PAST 6 HOURS, AND LAY CENTERED AT 0300 UTC OF 19<sup>TH</sup> MAY 2018 OVER GULF OF ADEN NEAR LATITUDE 10.9°N AND LONGITUDE 44.4°E; ABOUT 80 KM NORTH-NORTHEAST OF BERBERA (63160) (SOMALIA) AND 210 KM SOUTH-SOUTHWEST OF ADEN (41480) (YEMEN). IT IS VERY LIKELY TO CONTINUE TO MOVE WEST-SOUTHWESTWARDS, WEAKEN GRADUALLY AND CROSS SOMALIA COAST NEAR LONGITUDE 44°E AROUND 0900 OF TODAY, THE 19<sup>TH</sup> MAY 2018 AS A CYCLONIC STORM WITH WIND SPEED 65-75 KMPH GUSTING TO 85 KMPH AT THE TIME OF LANDFALL.

Date/Time (UTC)	Position (Lat. °N/ long. °E)	Maximum sustained surface wind speed (kmph)	Category of cyclonic disturbance
19/0300	10.9/44.4	80-90 GUSTING TO 100	CYCLONIC STORM
19/0600	10.7/44.1	70-80 GUSTING TO 90	CYCLONIC STORM
19/1200	10.4/43.7	60-70 GUSTING TO 80	CYCLONIC STORM
19/1800	10.1/43.2	50-60 GUSTING TO 70	DEEP DEPRESSION
20/0000	9.8/42.7	40-50 GUSTING TO 60	DEPRESSION

AS PER THE LATEST SATELLITE IMAGERY, THE INTENSITY OF THE SYSTEM IS T 3.0 ASSOCIATED SCATTERED LOW AND MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION LIE OVER AREA BETWEEN LATITUDE 10.0 N TO 14.0N LONGITUDE 42.0E TO 46.0E GULF OF ADEN, YEMEN ADJOINING SAUDI ARABIA, AND SOMALIA. MINIMUM CTT MINUS 93 DEG C.

THE ESTIMATED CENTRAL PRESSURE IS ABOUT 994 HPA AND THE MAXIMUM SUSTAINED SURFACE WIND SPEED IS 45 KNOTS GUSTING TO 55 KNOTS. STATE OF SEA IS HIGH TO VERY HIGH AROUND THE SYSTEM CENTRE.

**PROBABILITY OF CYCLOGENESIS (FORMATION OF DEPRESSION)**

**NIL: 0%, LOW: 1-25%, FAIR: 26-50%, MODERATE: 51-75% AND HIGH: 76-100%**

**Contact: Phone: (91) 11-24652484 FAX: (91) 11-24623220 e-mail :cwdhq2008@gmail.com**

**REMARKS:**

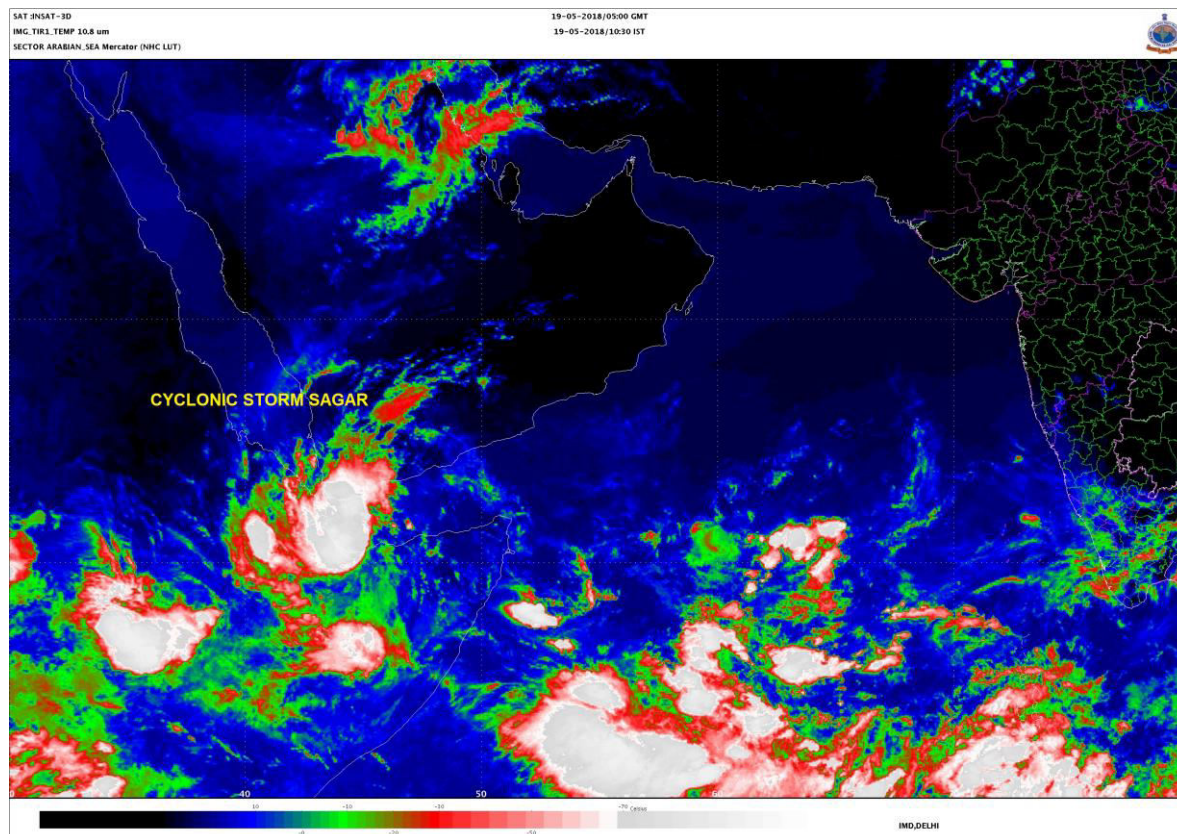
THE SEA SURFACE TEMPERATURE (SST) IS 30-31<sup>0</sup> C OVER THE SYSTEM AREA. THE TROPICAL CYCLONE HEAT POTENTIAL IS ABOUT 50 KJ/CM<sup>2</sup> OVER THE REGION OF THE SYSTEM. THERE IS A MAXIMA OF VALUE 20 X10<sup>-5</sup> S<sup>-1</sup> IN LOW LEVEL CONVERGENCE TO THE SOUTH SOUTHEAST OF THE SYSTEM CENTRE. THE UPPER LEVEL DIVERGENCE IS ABOUT 30 X10<sup>-5</sup> S<sup>-1</sup> AROUND THE SYSTEM CENTRE. VORTICITY AT 850 HPA LEVEL IS ABOUT 100X10<sup>-6</sup> S<sup>-1</sup> TO THE SOUTH OF THE SYSTEM CENTRE. VERTICAL WIND SHEAR IS LOW (05-10 KTS) AROUND THE SYSTEM CENTRE. IT INCREASES TOWARDS YEMEN AND OMAN COASTS. UPPER TROPOSPHERIC RIDGE LIES ALONG LATITUDE 14.0<sup>0</sup>N NEAR LONGITUDE 45<sup>0</sup>E. AS THE SYSTEM MOVES WEST-SOUTHWESTWARDS, IT IS COMING CLOSER TO LAND SURFACE AND HENCE THERE IS INCREASED LAND INTERACTION. THE TOTAL PRECIPITABLE WATER IMAGERY INDICATES RELATIVELY DRY AIR CONDITION IN THE PERIPHERY OF THE SYSTEM IN SOUTHERN SECTOR COVERING SOMALIA. IT WILL LEADS TO GRADUAL WEAKENING. HOWEVER, IT WOULD CROSS SOMALIA COAST NEAR LONGITUDE 44 DEG. EAST AROUND 0900 UTC OF TODAY, THE 19<sup>TH</sup> MAY 2018 AS A CYCLONIC STORM WITH WIND SPEED 65-75 KMPH GUSTING TO 85 KMPH.

(NEETHA K GOPAL)  
SCIENTIST-E, RSMC, NEW DELHI

**PROBABILITY OF CYCLOGENESIS (FORMATION OF DEPRESSION)**

**NIL: 0%, LOW: 1-25%, FAIR: 26-50%, MODERATE: 51-75% AND HIGH: 76-100%**

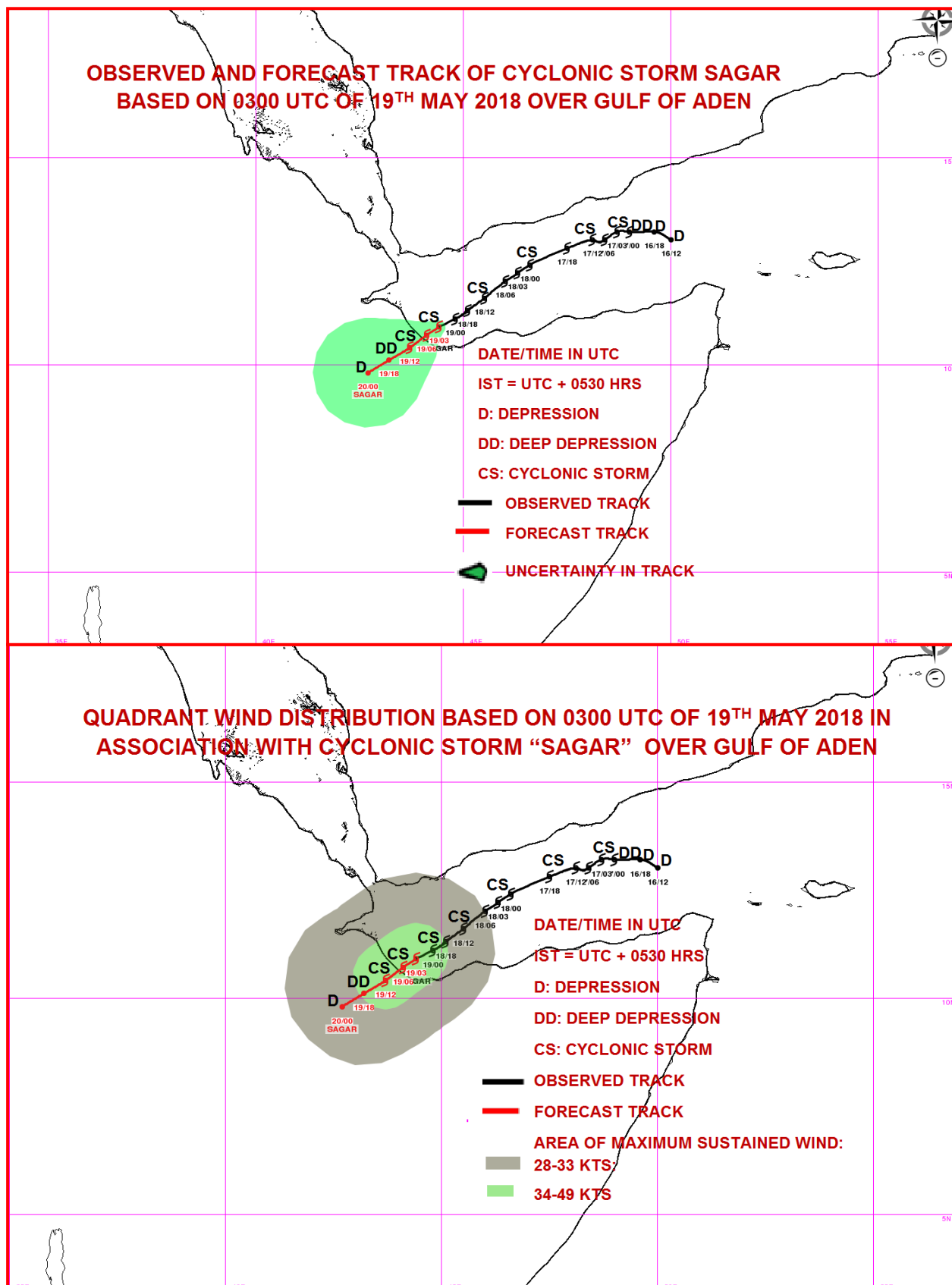
**Contact: Phone: (91) 11-24652484 FAX: (91) 11-24623220 e-mail :cwdhq2008@gmail.com**



**PROBABILITY OF CYCLOGENESIS (FORMATION OF DEPRESSION)**

**NIL: 0%, LOW: 1-25%, FAIR: 26-50%, MODERATE: 51-75% AND HIGH: 76-100%**

**Contact: Phone: (91) 11-24652484 FAX: (91) 11-24623220 e-mail :[cwdhq2008@gmail.com](mailto:cwdhq2008@gmail.com)**



**PROBABILITY OF CYCLOGENESIS (FORMATION OF DEPRESSION)**

**NIL: 0%, LOW: 1-25%, FAIR: 26-50%, MODERATE: 51-75% AND HIGH: 76-100%**

**Contact: Phone: (91) 11-24652484 FAX: (91) 11-24623220 e-mail :cwdhq2008@gmail.com**



**REGIONAL SPECIALISED METEOROLOGICAL CENTRE-TROPICAL CYCLONES, NEW DELHI**  
**TROPICAL CYCLONE ADVISORY BULLETIN**

**FROM: RSMC –TROPICAL CYCLONES, NEW DELHI**  
**TO: STORM WARNING CENTRE, NAYPYI TAW (MYANMAR)**  
**STORM WARNING CENTRE, BANGKOK (THAILAND)**  
**STORM WARNING CENTRE, COLOMBO (SRILANKA)**  
**STORM WARNING CENTRE, DHAKA (BANGLADESH)**  
**STORM WARNING CENTRE, KARACHI (PAKISTAN)**  
**METEOROLOGICAL OFFICE, MALE (MALDIVES)**  
**OMAN METEOROLOGICAL DEPARTMENT, MUSCAT (THROUGH RTH JEDDAH)**  
**YEMEN METEOROLOGICAL SERVICES, REPUBLIC OF YEMEN (THROUGH RTH JEDDAH)**

**TROPICAL STORM ‘SAGAR’ ADVISORY NO. EIGHTEEN ISSUED AT 0900 UTC OF 19<sup>TH</sup> MAY 2018**  
**BASED ON 0600 UTC OF 19<sup>TH</sup> MAY 2018**

THE CYCLONIC STORM “SAGAR” OVER GULF OF ADEN MOVED FURTHER WEST-SOUTHWESTWARDS WITH A SPEED OF 14 KMPH DURING PAST 6 HOURS, AND LAY CENTERED AT 0600 UTC OF 19<sup>TH</sup> MAY 2018 OVER GULF OF ADEN NEAR LATITUDE 10.7°N AND LONGITUDE 44.1°E; ABOUT 100 KM WEST-NORTHWEST OF BERBERA (63160) AND 240 KM SOUTH-SOUTHWEST OF ADEN (41480). IT IS VERY LIKELY TO CONTINUE TO MOVE WEST-SOUTHWESTWARDS, WEAKEN GRADUALLY AND CROSS SOMALIA COAST NEAR LONGITUDE 44°E (ABOUT 110 KM WEST-NORTHWEST OF BERBERA) WITHIN NEXT 3 TO 4 HOURS AS A CYCLONIC STORM WITH WIND SPEED 65-75 KMPH GUSTING TO 85 KMPH.

DATE/TIME (UTC)	POSITION (LAT. °N/ LONG. °E)	MAXIMUM SUSTAINED SURFACE WIND SPEED (KMPH)	CATEGORY OF CYCLONIC DISTURBANCE
19/0600	10.7/44.1	70-80 GUSTING TO 90	CYCLONIC STORM
19/1200	10.4/43.7	60-70 GUSTING TO 80	CYCLONIC STORM
19/1800	10.1/43.2	50-60 GUSTING TO 70	DEEP DEPRESSION
20/0000	9.8/42.7	40-50 GUSTING TO 60	DEPRESSION

AS PER THE LATEST SATELLITE IMAGERY, THE INTENSITY OF THE SYSTEM IS T 3.0 ASSOCIATED SCATTERED LOW AND MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION LIE OVER AREA BETWEEN LATITUDE 9.5°N TO 14.0°N LONGITUDE 42.0°E TO 46.0°E GULF OF ADEN, YEMEN ADJOINING SAUDI ARABIA, AND SOMALIA. MINIMUM CTT MINUS 93° C.

THE ESTIMATED CENTRAL PRESSURE IS ABOUT 996 HPA AND THE MAXIMUM SUSTAINED SURFACE WIND SPEED IS 40 KNOTS GUSTING TO 50 KNOTS. STATE OF SEA IS HIGH TO VERY HIGH AROUND THE SYSTEM CENTRE.

**REMARKS:**

THE SYSTEM IS VERY CLOSE TO THE COAST, IT WOULD CROSS THE COAST WITHIN NEXT 3 HOURS. THE SYSTEM SHOW THE SIGN OF WEAKENING. IT WILL CONTINUE TO WEAKEN FURTHER DUE TO LAND INTERACTION AND DRY AIR INCURSION TO THE CORE OF THE SYSTEM.

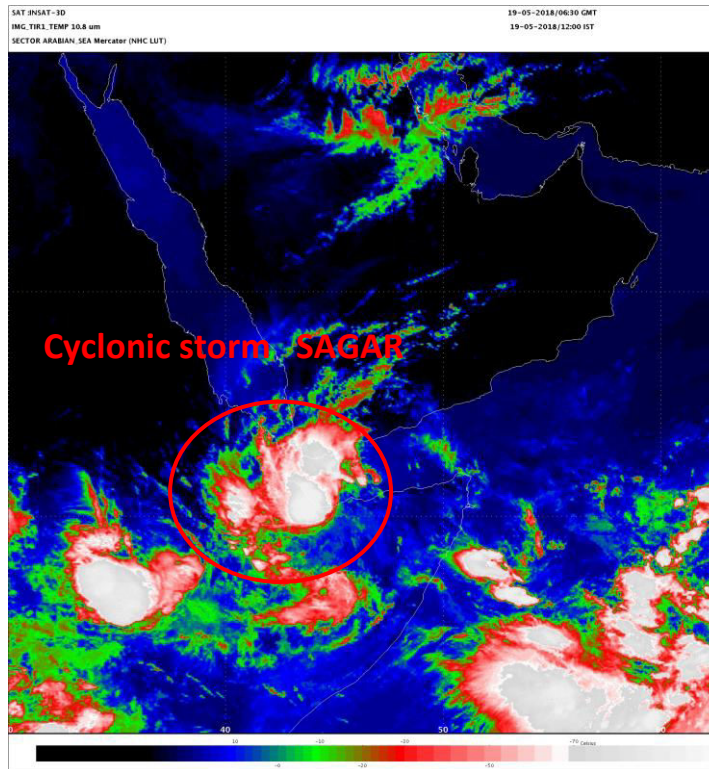
**(NARESH KUMAR)**  
**SCIENTIST-E, RSMC, NEW DELHI**

**PROBABILITY OF CYCLOGENESIS (FORMATION OF DEPRESSION)**

**NIL: 0%, LOW: 1-25%, FAIR: 26-50%, MODERATE: 51-75% AND HIGH: 76-100%**

**Contact: Phone: (91) 11-24652484 FAX: (91) 11-24623220 e-mail :cwdhq2008@gmail.com**

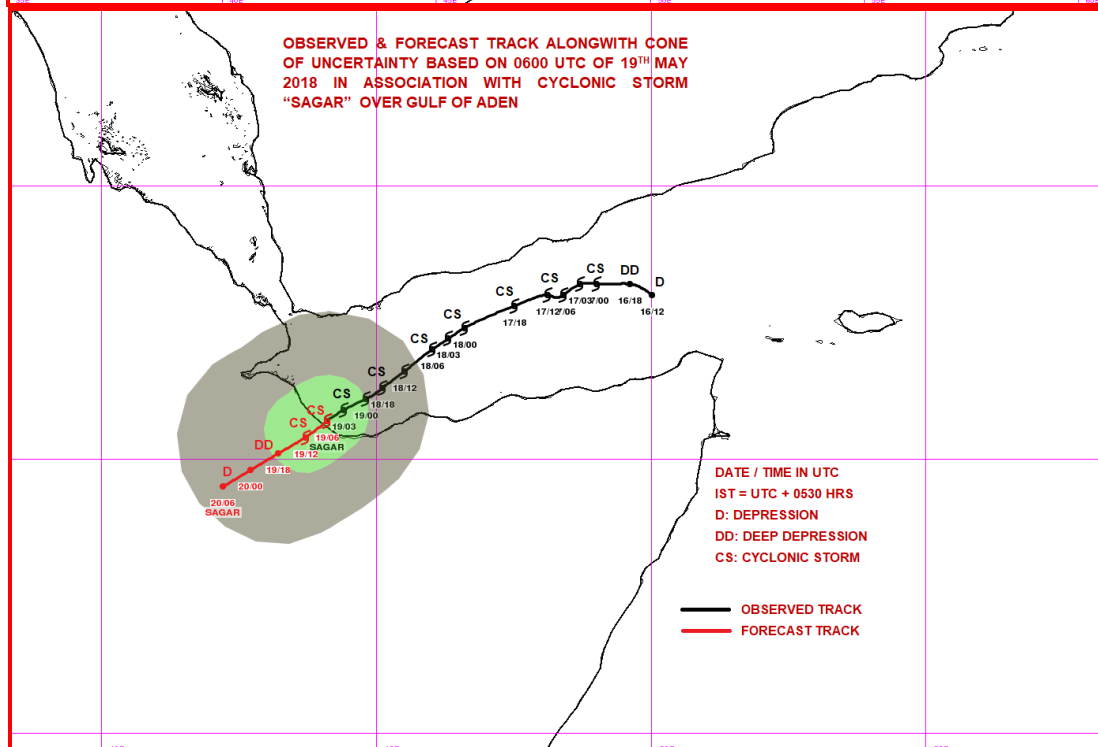
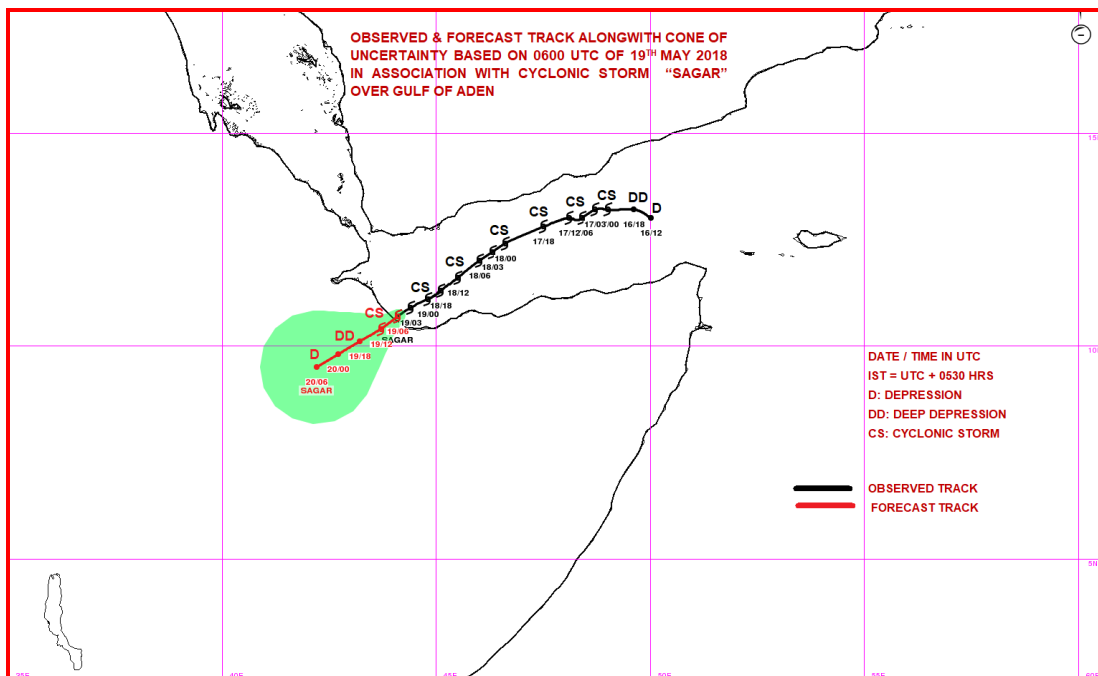




**PROBABILITY OF CYCLOGENESIS (FORMATION OF DEPRESSION)**

**NIL: 0%, LOW: 1-25%, FAIR: 26-50%, MODERATE: 51-75% AND HIGH: 76-100%**

**Contact: Phone: (91) 11-24652484 FAX: (91) 11-24623220 e-mail :cwdhq2008@gmail.com**



**PROBABILITY OF CYCLOGENESIS (FORMATION OF DEPRESSION)**

**NIL: 0%, LOW: 1-25%, FAIR: 26-50%, MODERATE: 51-75% AND HIGH: 76-100%**

**Contact: Phone: (91) 11-24652484 FAX: (91) 11-24623220 e-mail :cwdhq2008@gmail.com**



**REGIONAL SPECIALISED METEOROLOGICAL CENTRE-TROPICAL CYCLONES, NEW DELHI**  
**TROPICAL CYCLONE ADVISORY BULLETIN**

**FROM: RSMC –TROPICAL CYCLONES, NEW DELHI**  
**TO: STORM WARNING CENTRE, NAYPYI TAW (MYANMAR)**  
**STORM WARNING CENTRE, BANGKOK (THAILAND)**  
**STORM WARNING CENTRE, COLOMBO (SRILANKA)**  
**STORM WARNING CENTRE, DHAKA (BANGLADESH)**  
**STORM WARNING CENTRE, KARACHI (PAKISTAN)**  
**METEOROLOGICAL OFFICE, MALE (MALDIVES)**  
**OMAN METEOROLOGICAL DEPARTMENT, MUSCAT (THROUGH RTH JEDDAH)**  
**YEMEN METEOROLOGICAL SERVICES, REPUBLIC OF YEMEN (THROUGH RTH JEDDAH)**

**TROPICAL STORM ‘SAGAR’ ADVISORY NO. NINETEEN ISSUED AT 1100 UTC OF 19<sup>TH</sup> MAY 2018**  
**BASED ON 0900 UTC OF 19<sup>TH</sup> MAY 2018**

THE CYCLONIC STORM “SAGAR” OVER GULF OF ADEN MOVED FURTHER WEST-SOUTHWESTWARDS, CROSSED SOMALIA COAST NEAR LATITUDE 10.65°N AND LONGITUDE 44.0°E (ABOUT 110 KM WEST-NORTHWEST OF BERBERA) BETWEEN 0800 AND 0900 UTC AS A CYCLONIC STORM WITH WIND SPEED OF 70-80 KMPH GUSTING TO 90 KMPH AND LAY CENTERED AT 0900 UTC OF TODAY, THE 19<sup>TH</sup> MAY 2018 OVER NORTHWEST SOMALIA NEAR LATITUDE 10.6°N AND LONGITUDE 43.9°E. IT IS VERY LIKELY TO CONTINUE TO MOVE WEST-SOUTHWESTWARDS, WEAKEN GRADUALLY INTO A DEEP DEPRESSION DURING NEXT 06 HOURS.

DATE/TIME (UTC)	POSITION (LAT. °N/ LONG. °E)	MAXIMUM SUSTAINED SURFACE WIND SPEED (KMPH)	CATEGORY OF CYCLONIC DISTURBANCE
19/0900	10.6/44.1	65-75 GUSTING TO 85	CYCLONIC STORM
19/1200	10.4/43.6	60-70 GUSTING TO 80	CYCLONIC STORM
19/1800	10.1/43.1	50-60 GUSTING TO 70	DEEP DEPRESSION
20/0000	9.8/42.6	40-50 GUSTING TO 60	DEPRESSION

AS PER THE LATEST SATELLITE IMAGERY, ASSOCIATED SCATTERED LOW AND MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION LIE OVER AREA BETWEEN LATITUDE 9.5°N TO 14.0°N LONGITUDE 42.0°E TO 46.0°E GULF OF ADEN, YEMEN ADJOINING SAUDI ARABIA, AND SOMALIA. MINIMUM CTT MINUS 93° C.

THE ESTIMATED CENTRAL PRESSURE IS ABOUT 998 HPA AND THE MAXIMUM SUSTAINED SURFACE WIND SPEED IS 35 KNOTS GUSTING TO 45 KNOTS. STATE OF SEA IS VERY ROUGH TO HIGH OVER GULF OF ADEN.

**REMARKS:**

THE SYSTEM WILL WEAKEN GRADUALLY DUE TO LAND INTERACTION INTO A DEEP DEPRESSION DURING NEXT SIX HOURS AND INTO A DEPRESSION IN SUBSEQUENT SIX HOURS.

**(NEETHA K GOPAL)**  
**SCIENTIST-E, RSMC, NEW DELHI**

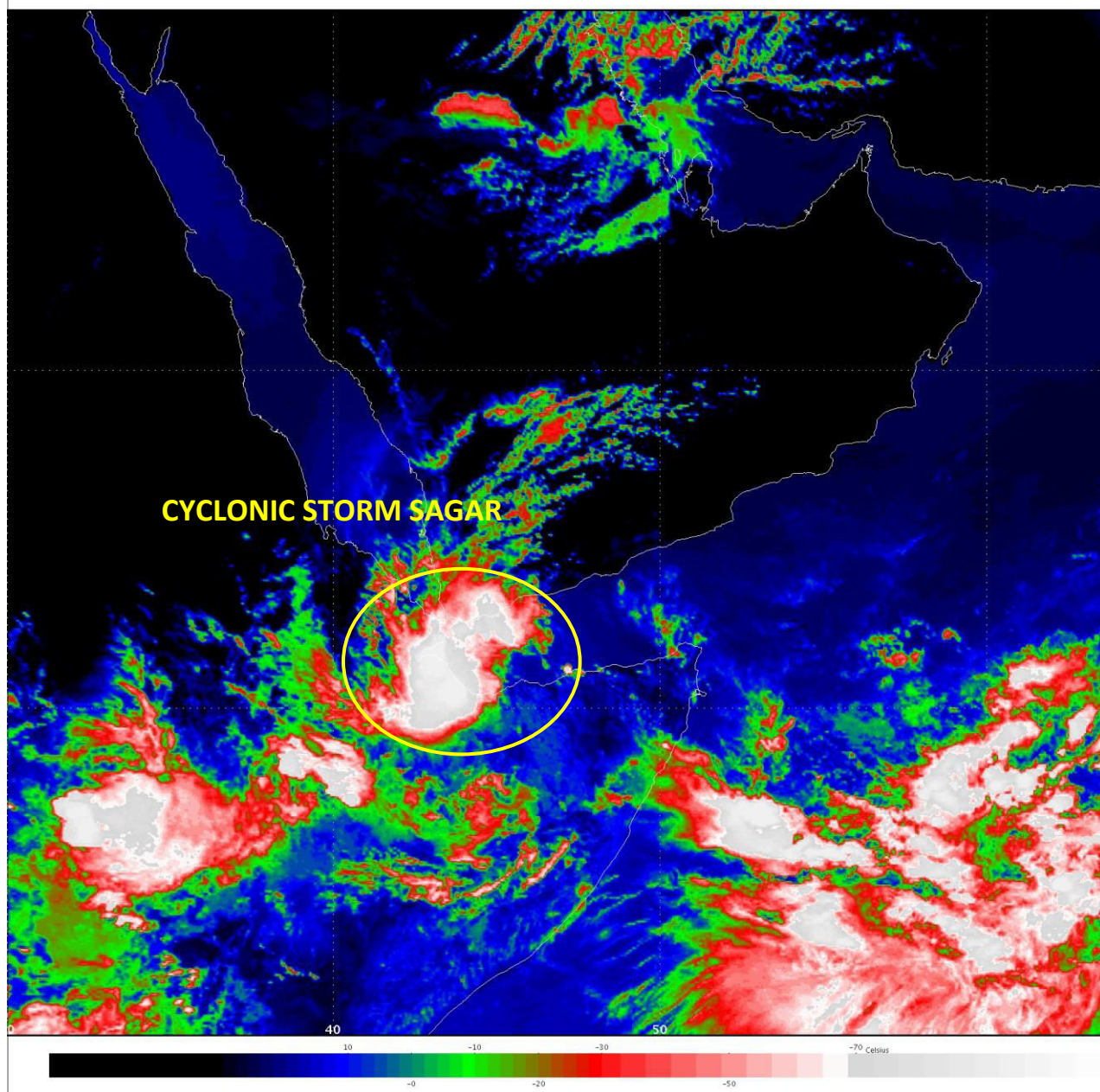
**PROBABILITY OF CYCLOGENESIS (FORMATION OF DEPRESSION)**

**NIL: 0%, LOW: 1-25%, FAIR: 26-50%, MODERATE: 51-75% AND HIGH: 76-100%**

**Contact: Phone: (91) 11-24652484 FAX: (91) 11-24623220 e-mail :cwdhq2008@gmail.com**

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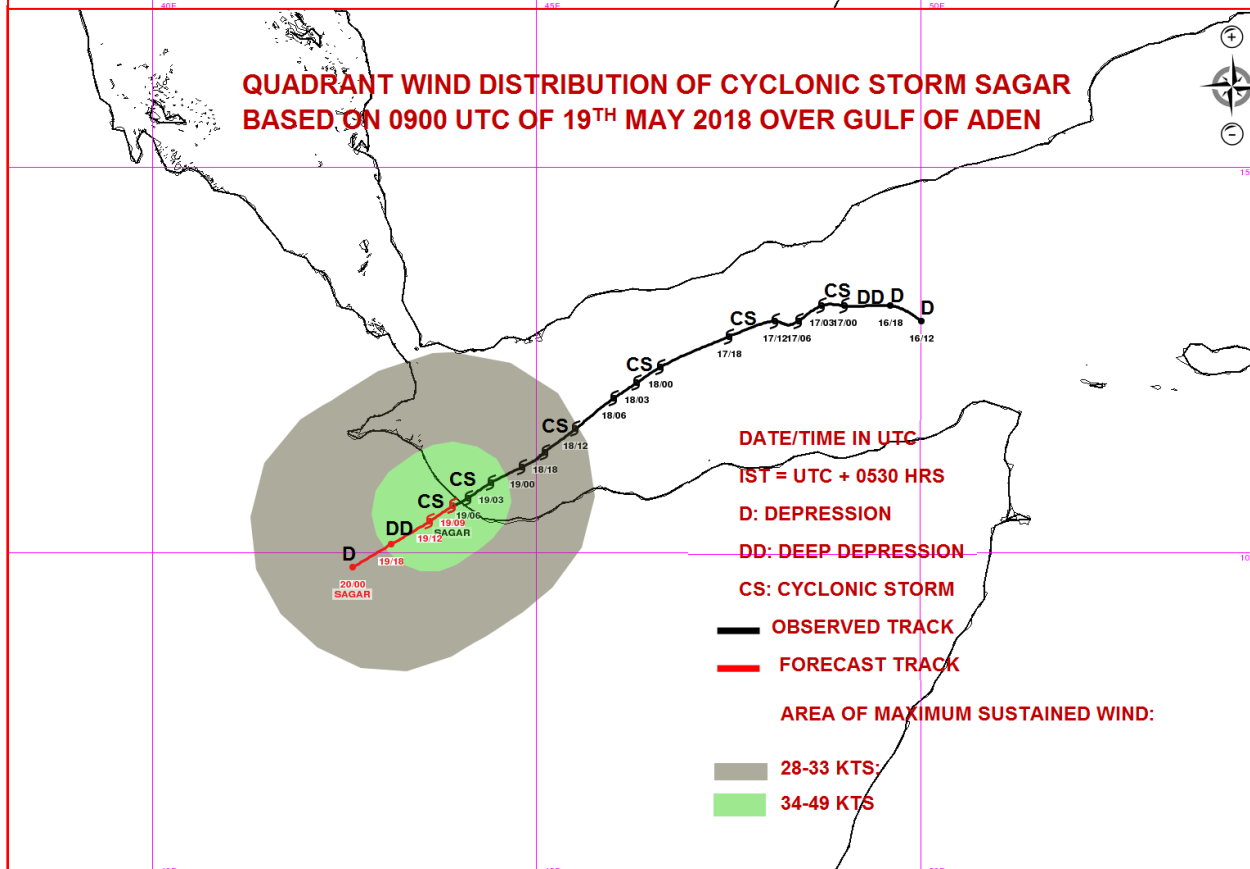
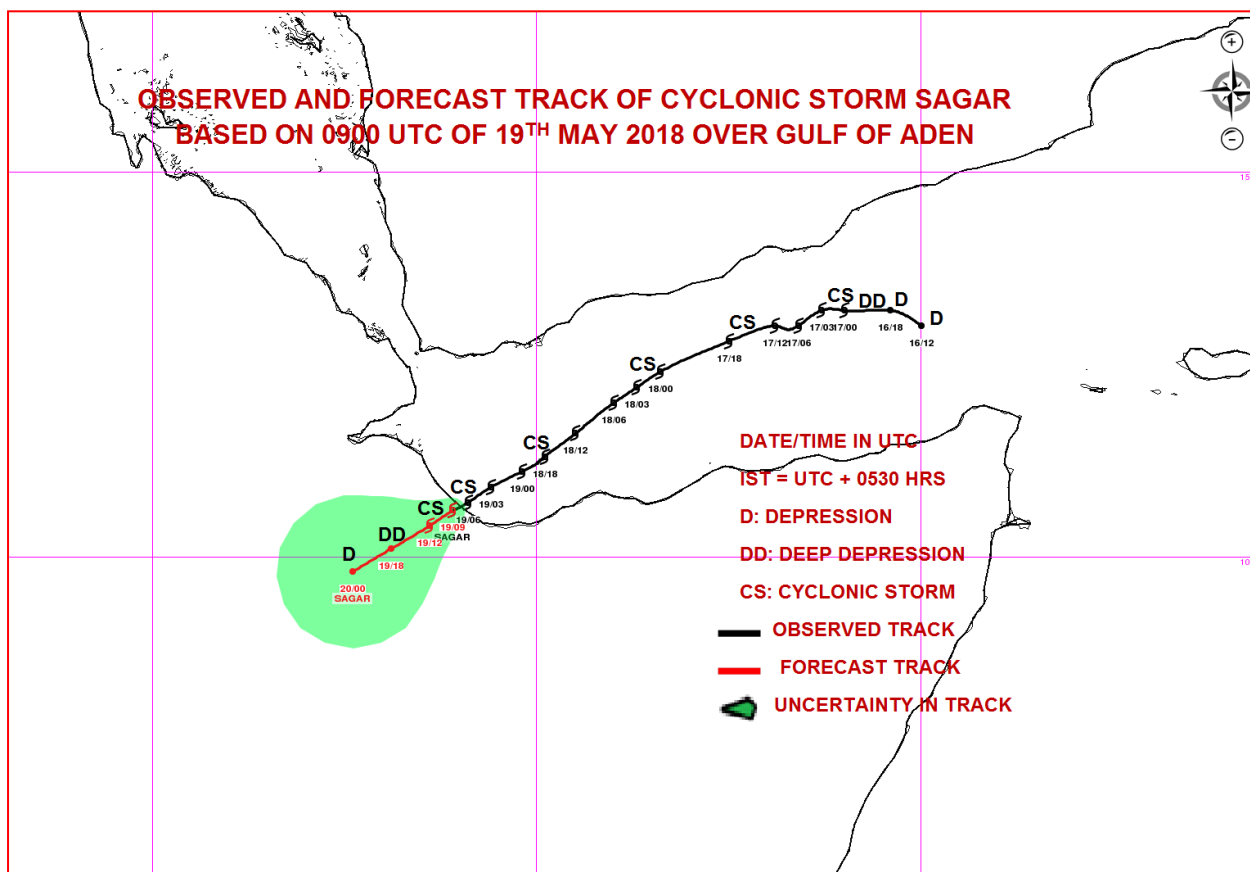


**PROBABILITY OF CYCLOGENESIS (FORMATION OF DEPRESSION)**

**NIL: 0%, LOW: 1-25%, FAIR: 26-50%, MODERATE: 51-75% AND HIGH: 76-100%**

**Contact: Phone: (91) 11-24652484 FAX: (91) 11-24623220 e-mail :cwdhq2008@gmail.com**





**PROBABILITY OF CYCLOGENESIS (FORMATION OF DEPRESSION)**

**NIL: 0%, LOW: 1-25%, FAIR: 26-50%, MODERATE: 51-75% AND HIGH: 76-100%**

**Contact: Phone: (91) 11-24652484 FAX: (91) 11-24623220 e-mail :cwdhq2008@gmail.com**



**REGIONAL SPECIALISED METEOROLOGICAL CENTRE-TROPICAL CYCLONES, NEW DELHI**  
**TROPICAL CYCLONE ADVISORY BULLETIN**

**FROM: RSMC –TROPICAL CYCLONES, NEW DELHI**  
**TO: STORM WARNING CENTRE, NAYPYI TAW (MYANMAR)**  
**STORM WARNING CENTRE, BANGKOK (THAILAND)**  
**STORM WARNING CENTRE, COLOMBO (SRILANKA)**  
**STORM WARNING CENTRE, DHAKA (BANGLADESH)**  
**STORM WARNING CENTRE, KARACHI (PAKISTAN)**  
**METEOROLOGICAL OFFICE, MALE (MALDIVES)**  
**OMAN METEOROLOGICAL DEPARTMENT, MUSCAT (THROUGH RTH JEDDAH)**  
**YEMEN METEOROLOGICAL SERVICES, REPUBLIC OF YEMEN (THROUGH RTH JEDDAH)**

**TROPICAL STORM 'SAGAR' ADVISORY NO. TWENTY ISSUED AT 1500 UTC OF 19<sup>TH</sup> MAY 2018**  
**BASED ON 1200 UTC OF 19<sup>TH</sup> MAY 2018**

THE CYCLONIC STORM "SAGAR" OVER SOMALIA FURTHER MOVED WEST-SOUTHWESTWARDS AND LAY CENTERED AT 1200 UTC OF TODAY, THE 19<sup>TH</sup> MAY 2018 OVER NORTHWEST SOMALIA NEAR LAT. 10.4<sup>0</sup>N AND LONG. 43.6<sup>0</sup>E, ABOUT 110 KM TO THE WEST OF BERBERA. IT IS VERY LIKELY TO CONTINUE TO MOVE WEST-SOUTHWESTWARDS, WEAKEN GRADUALLY INTO A DEEP DEPRESSION DURING NEXT SIX HRS AND FURTHER INTO A DEPRESSION IN SUBSEQUENT SIX HOURS.

DATE/TIME (UTC)	POSITION (LAT. °N/ LONG. °E)	MAXIMUM SUSTAINED SURFACE WIND SPEED (KMPH)	CATEGORY OF CYCLONIC DISTURBANCE
19/1200	10.4/43.6	60-70 GUSTING TO 80	CYCLONIC STORM
19/1800	10.1/43.1	50-60 GUSTING TO 70	DEEP DEPRESSION
20/0000	9.8/42.6	40-50 GUSTING TO 60	DEPRESSION

AS PER THE LATEST SATELLITE IMAGERY, ASSOCIATED BROKEN LOW AND MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION LIE OVER AREA BETWEEN LATITUDE 9.0°N TO 13.0°N LONGITUDE 41.0°E TO 45.0°E. MINIMUM CTT MINUS 93° C.

THE ESTIMATED CENTRAL PRESSURE IS ABOUT 999 HPA AND THE MAXIMUM SUSTAINED SURFACE WIND SPEED IS 35 KNOTS GUSTING TO 45 KNOTS. STATE OF SEA IS VERY ROUGH TO HIGH OVER GULF OF ADEN.

**REMARKS:**

THE SYSTEM WILL WEAKEN GRADUALLY DUE TO LAND INTERACTION INTO A DEEP DEPRESSION DURING NEXT SIX HOURS AND INTO A DEPRESSION IN SUBSEQUENT SIX HOURS.

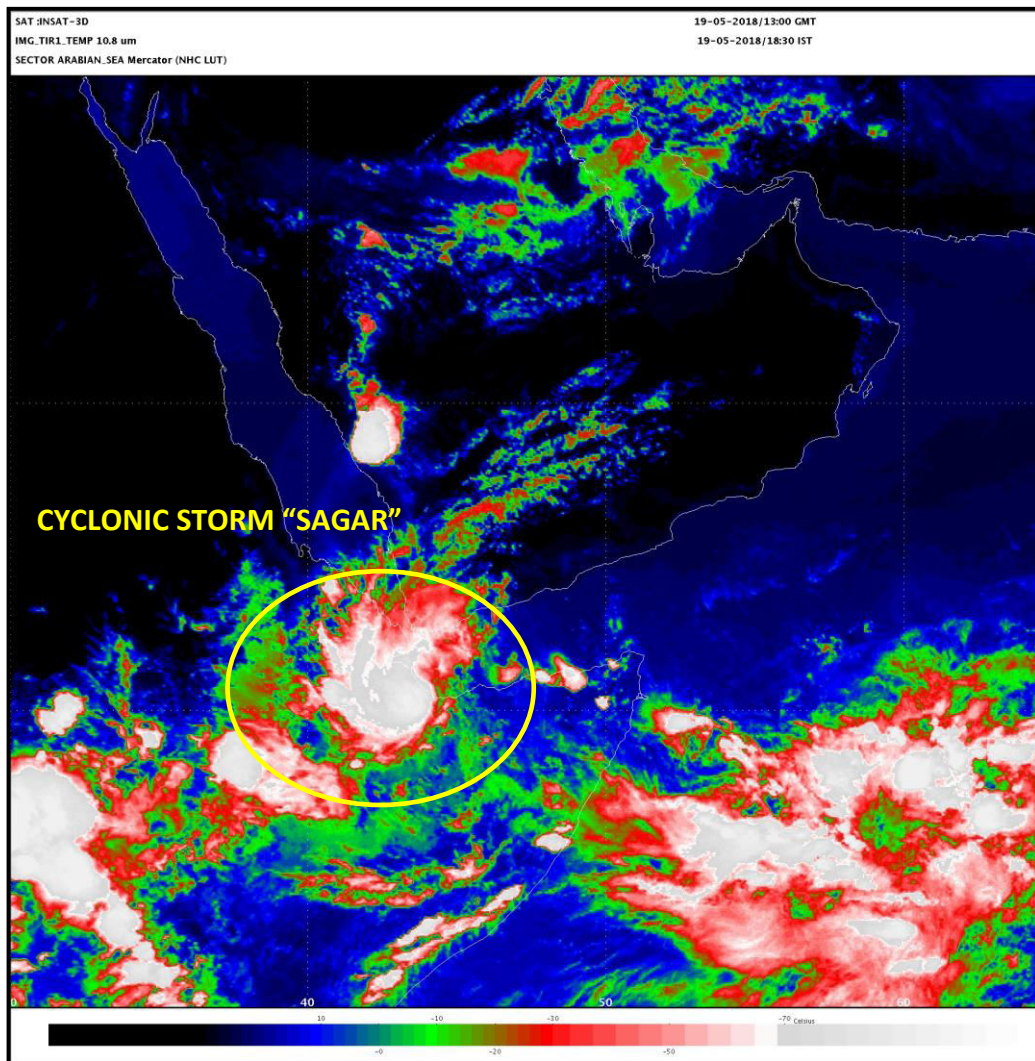
**(NEETHA K GOPAL)**  
**SCIENTIST-E, RSMC, NEW DELHI**

**PROBABILITY OF CYCLOGENESIS (FORMATION OF DEPRESSION)**

**NIL: 0%, LOW: 1-25%, FAIR: 26-50%, MODERATE: 51-75% AND HIGH: 76-100%**

**Contact: Phone: (91) 11-24652484 FAX: (91) 11-24623220 e-mail :cwdhq2008@gmail.com**

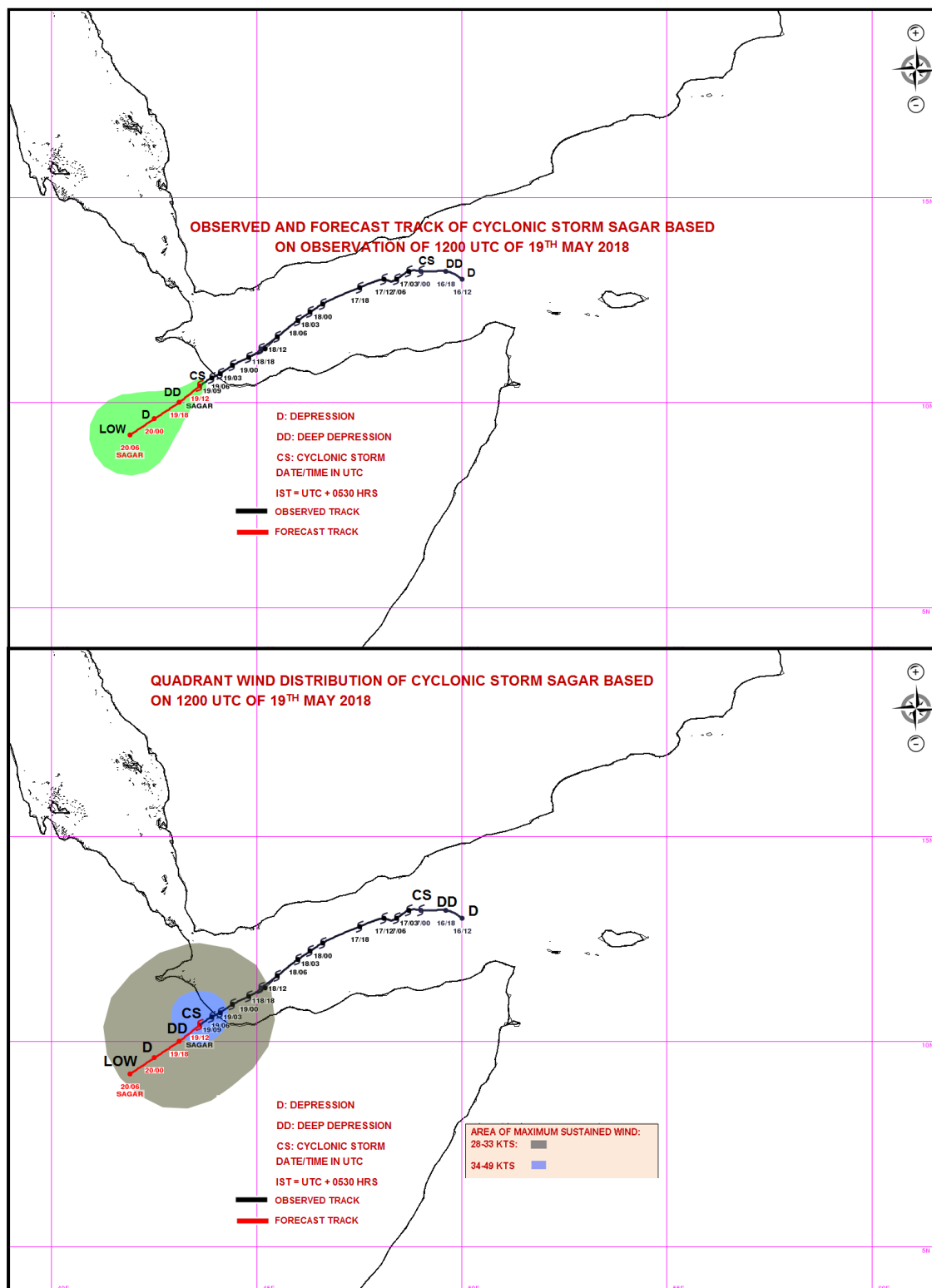




**PROBABILITY OF CYCLOGENESIS (FORMATION OF DEPRESSION)**

**NIL: 0%, LOW: 1-25%, FAIR: 26-50%, MODERATE: 51-75% AND HIGH: 76-100%**

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**PROBABILITY OF CYCLOGENESIS (FORMATION OF DEPRESSION)**

**NIL: 0%, LOW: 1-25%, FAIR: 26-50%, MODERATE: 51-75% AND HIGH: 76-100%**

**Contact: Phone: (91) 11-24652484 FAX: (91) 11-24623220 e-mail :cwdhq2008@gmail.com**



**REGIONAL SPECIALISED METEOROLOGICAL CENTRE-TROPICAL CYCLONES, NEW DELHI**  
**TROPICAL CYCLONE ADVISORY BULLETIN**

**FROM: RSMC –TROPICAL CYCLONES, NEW DELHI**  
**TO: STORM WARNING CENTRE, NAYPYI TAW (MYANMAR)**  
**STORM WARNING CENTRE, BANGKOK (THAILAND)**  
**STORM WARNING CENTRE, COLOMBO (SRILANKA)**  
**STORM WARNING CENTRE, DHAKA (BANGLADESH)**  
**STORM WARNING CENTRE, KARACHI (PAKISTAN)**  
**METEOROLOGICAL OFFICE, MALE (MALDIVES)**  
**OMAN METEOROLOGICAL DEPARTMENT, MUSCAT (THROUGH RTH JEDDAH)**  
**YEMEN METEOROLOGICAL SERVICES, REPUBLIC OF YEMEN (THROUGH RTH JEDDAH)**

**TROPICAL STORM ‘SAGAR’ ADVISORY NO. TWENTY ONE ISSUED AT 1800 UTC OF 19<sup>TH</sup> MAY 2018**  
**BASED ON 1500 UTC OF 19<sup>TH</sup> MAY 2018**

THE CYCLONIC STORM “SAGAR” OVER SOMALIA FURTHER MOVED WEST-SOUTHWESTWARDS WITH A SPEED OF 09 KMPH DURING PAST 6 HOURS, AND LAY CENTERED AT 1500 UTC OF TODAY, THE 19<sup>TH</sup> MAY 2018 OVER NORTHWEST SOMALIA NEAR LAT. 10.3<sup>0</sup>N AND LONG. 43.5<sup>0</sup>E, ABOUT 160 KM TO THE WEST OF BERBERA. IT IS VERY LIKELY TO CONTINUE TO MOVE WEST-SOUTHWESTWARDS, WEAKEN GRADUALLY INTO A DEEP DEPRESSION DURING NEXT SIX HRS AND FURTHER INTO A DEPRESSION IN SUBSEQUENT SIX HOURS.

DATE/TIME (UTC)	POSITION (LAT. °N/ LONG. °E)	MAXIMUM SUSTAINED SURFACE WIND SPEED (KMPH)	CATEGORY OF CYCLONIC DISTURBANCE
19/1500	10.3/43.5	60-70 GUSTING TO 80	CYCLONIC STORM
19/1800	10.1/43.1	50-60 GUSTING TO 70	DEEP DEPRESSION
20/0000	9.8/42.6	40-50 GUSTING TO 60	DEPRESSION

AS PER THE LATEST SATELLITE IMAGERY, ASSOCIATED BROKEN LOW AND MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION LIE OVER AREA BETWEEN LATITUDE 9.0°N TO 13.0°N LONGITUDE 40.0°E TO 44.5°E. MINIMUM CTT MINUS 93° C.

THE ESTIMATED CENTRAL PRESSURE IS ABOUT 999 HPA AND THE MAXIMUM SUSTAINED SURFACE WIND SPEED IS 35 KNOTS GUSTING TO 45 KNOTS. STATE OF SEA IS VERY ROUGH TO HIGH OVER GULF OF ADEN.

**REMARKS:**

THE SYSTEM WILL WEAKEN GRADUALLY DUE TO LAND INTERACTION INTO A DEEP DEPRESSION DURING NEXT SIX HOURS AND INTO A DEPRESSION IN SUBSEQUENT SIX HOURS.

**(D. R. Pattanaik)**  
**SCIENTIST-E, RSMC, NEW DELHI**

**PROBABILITY OF CYCLOGENESIS (FORMATION OF DEPRESSION)**

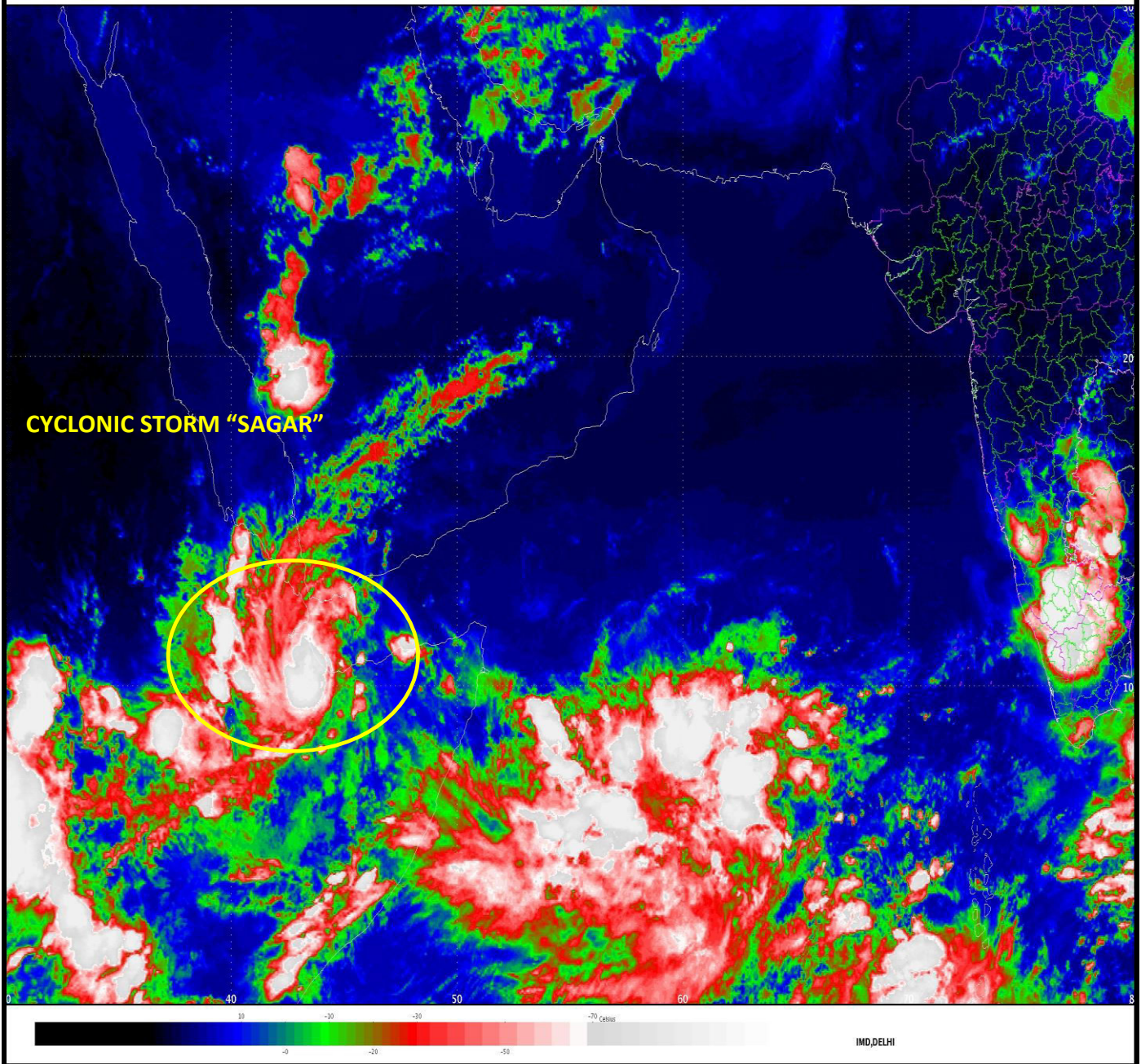
**NIL: 0%, LOW: 1-25%, FAIR: 26-50%, MODERATE: 51-75% AND HIGH: 76-100%**

**Contact: Phone: (91) 11-24652484 FAX: (91) 11-24623220 e-mail :cwdhq2008@gmail.com**



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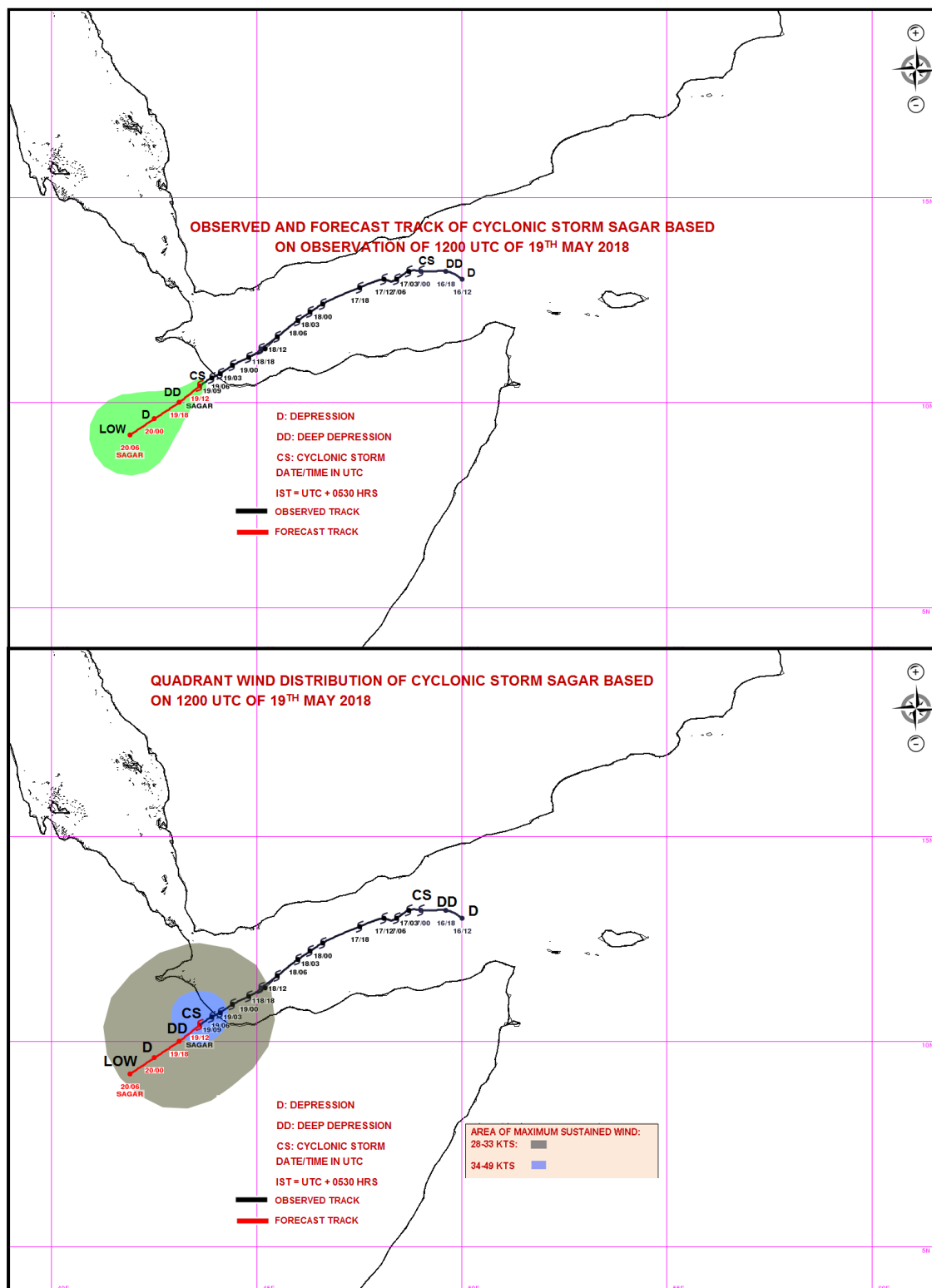
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**PROBABILITY OF CYCLOGENESIS (FORMATION OF DEPRESSION)**

**NIL: 0%, LOW: 1-25%, FAIR: 26-50%, MODERATE: 51-75% AND HIGH: 76-100%**

**Contact: Phone: (91) 11-24652484 FAX: (91) 11-24623220 e-mail : [cwdhq2008@gmail.com](mailto:cwdhq2008@gmail.com)**



# **PROBABILITY OF CYCLOGENESIS (FORMATION OF DEPRESSION)**

**NIL: 0%, LOW: 1-25%, FAIR: 26-50%, MODERATE: 51-75% AND HIGH: 76-100%**

**Contact: Phone: (91) 11-24652484 FAX: (91) 11-24623220 e-mail :cwdhq2008@gmail.com**



**REGIONAL SPECIALISED METEOROLOGICAL CENTRE-TROPICAL CYCLONES, NEW DELHI**  
**TROPICAL CYCLONE ADVISORY BULLETIN**

**FROM: RSMC –TROPICAL CYCLONES, NEW DELHI**  
**TO: STORM WARNING CENTRE, NAYPYI TAW (MYANMAR)**  
**STORM WARNING CENTRE, BANGKOK (THAILAND)**  
**STORM WARNING CENTRE, COLOMBO (SRILANKA)**  
**STORM WARNING CENTRE, DHAKA (BANGLADESH)**  
**STORM WARNING CENTRE, KARACHI (PAKISTAN)**  
**METEOROLOGICAL OFFICE, MALE (MALDIVES)**  
**OMAN METEOROLOGICAL DEPARTMENT, MUSCAT (THROUGH RTH JEDDAH)**  
**YEMEN METEOROLOGICAL SERVICES, REPUBLIC OF YEMEN (THROUGH RTH JEDDAH)**

**TROPICAL STORM ‘SAGAR’ ADVISORY NO. TWENTY TWO ISSUED AT 2030**  
**UTC OF 19<sup>TH</sup> MAY 2018 BASED ON 1800 UTC OF 19<sup>TH</sup> MAY 2018**

THE CYCLONIC STORM “SAGAR” OVER SOMALIA MOVED FURTHER SOUTH-WESTWARDS WITH A SPEED OF 08 KMPH DURING PAST 6 HOURS, WEAKENED INTO A DEEP DEPRESSION AND LAY CENTERED AT 1800 UTC OF 19<sup>TH</sup> MAY 2018 OVER NORTHWEST SOMALIA NEAR LAT. 10.1 °N AND LONG. 43.3 °E, ABOUT 190 KM TO THE WEST-SOUTHWEST OF BERBERA. IT IS VERY LIKELY TO MOVE SOUTH-WESTWARDS AND WEAKEN GRADUALLY INTO A DEPRESSION DURING NEXT SIX HOURS.

DATE/TIME (UTC)	POSITION (LAT. °N/ LONG. °E)	MAXIMUM SUSTAINED SURFACE WIND SPEED (KMPH)	CATEGORY OF CYCLONIC DISTURBANCE
19/1800	10.1/43.3	50-60 GUSTING TO 70	DEEP DEPRESSION
20/0000	9.8/42.9	40-50 GUSTING TO 60	DEPRESSION

AS PER THE LATEST SATELLITE IMAGERY, ASSOCIATED BROKEN LOW AND MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION LIE OVER AREA BETWEEN LATITUDE 9.0°N TO 12.0°N LONGITUDE 40.0°E TO 45.5°E. MINIMUM CTT MINUS 93° C.

THE ESTIMATED CENTRAL PRESSURE IS ABOUT 1001 HPA AND THE MAXIMUM SUSTAINED SURFACE WIND SPEED IS 30 KNOTS GUSTING TO 40 KNOTS. STATE OF SEA IS ROUGH TO VERY ROUGH OVER GULF OF ADEN.

**REMARKS:**

THE SYSTEM WILL WEAKEN GRADUALLY DUE TO LAND INTERACTION INTO A DEPRESSION DURING NEXT SIX HOURS.

**(D. R. Pattanaik)**  
**SCIENTIST-E, RSMC, NEW DELHI**

**PROBABILITY OF CYCLOGENESIS (FORMATION OF DEPRESSION)**

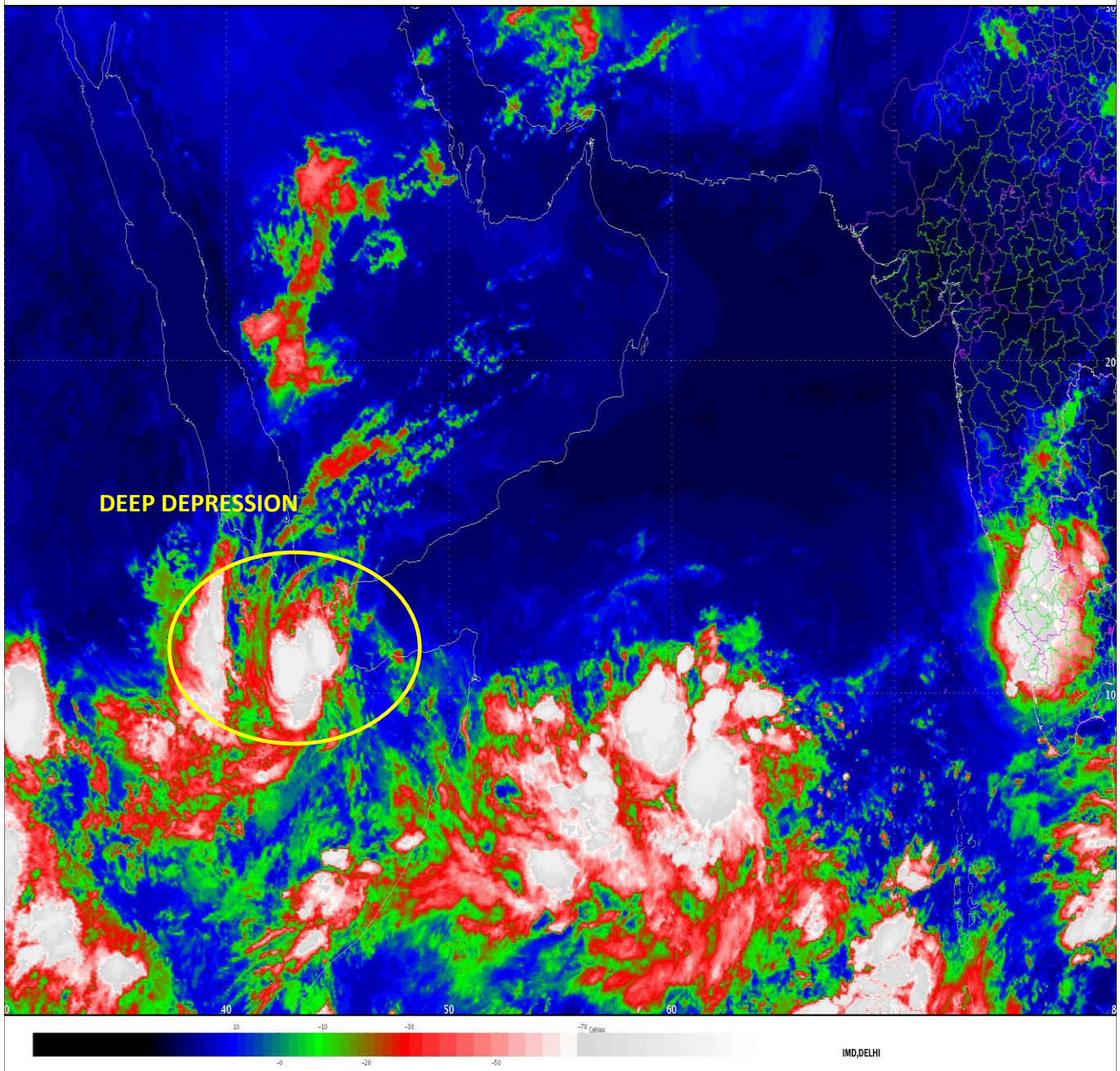
**NIL: 0%, LOW: 1-25%, FAIR: 26-50%, MODERATE: 51-75% AND HIGH: 76-100%**

**Contact: Phone: (91) 11-24652484 FAX: (91) 11-24623220 e-mail :cwdhq2008@gmail.com**



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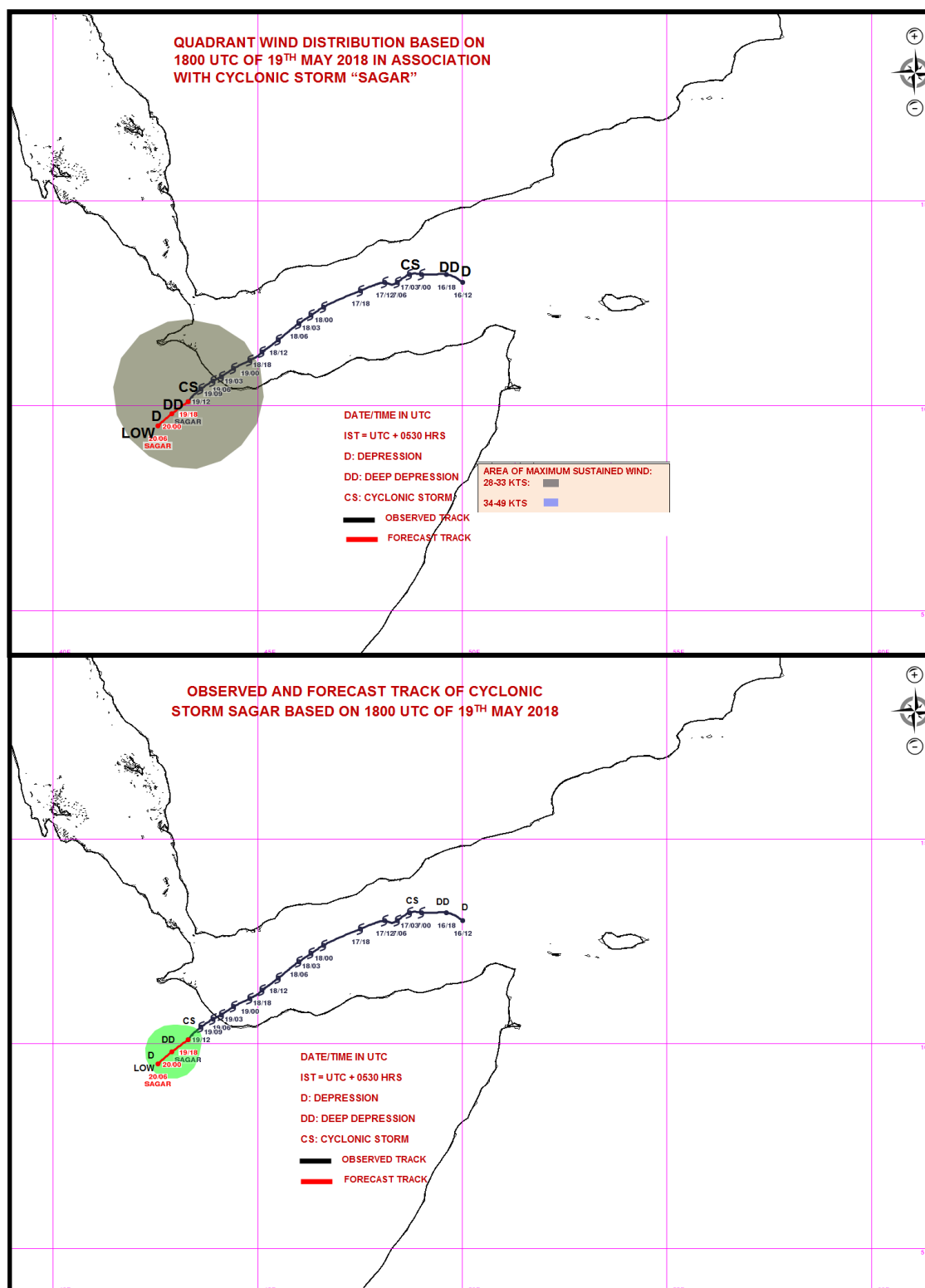
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20-05-2018/0000 IST



**PROBABILITY OF CYCLOGENESIS (FORMATION OF DEPRESSION)**

**NIL: 0%, LOW: 1-25%, FAIR: 26-50%, MODERATE: 51-75% AND HIGH: 76-100%**

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**PROBABILITY OF CYCLOGENESIS (FORMATION OF DEPRESSION)**

**NIL: 0%, LOW: 1-25%, FAIR: 26-50%, MODERATE: 51-75% AND HIGH: 76-100%**

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**REGIONAL SPECIALISED METEOROLOGICAL CENTRE-TROPICAL CYCLONES, NEW DELHI**  
**TROPICAL CYCLONE ADVISORY BULLETIN**

**FROM: RSMC –TROPICAL CYCLONES, NEW DELHI**  
**TO: STORM WARNING CENTRE, NAYPYI TAW (MYANMAR)**  
**STORM WARNING CENTRE, BANGKOK (THAILAND)**  
**STORM WARNING CENTRE, COLOMBO (SRILANKA)**  
**STORM WARNING CENTRE, DHAKA (BANGLADESH)**  
**STORM WARNING CENTRE, KARACHI (PAKISTAN)**  
**METEOROLOGICAL OFFICE, MALE (MALDIVES)**  
**OMAN METEOROLOGICAL DEPARTMENT, MUSCAT (THROUGH RTH JEDDAH)**  
**YEMEN METEOROLOGICAL SERVICES, REPUBLIC OF YEMEN (THROUGH RTH JEDDAH)**

**TROPICAL STORM 'SAGAR' ADVISORY NO. TWENTY THREE ISSUED AT 0200**  
**UTC OF 20<sup>TH</sup> MAY 2018 BASED ON 0000 UTC OF 20<sup>TH</sup> MAY 2018**

THE DEEP DEPRESSION OVER SOMALIA MOVED WEST-SOUTHWESTWARDS WITH A SPEED OF 08 KMPH DURING PAST 6 HOURS, WEAKENED INTO A DEPRESSION AND LAY CENTERED AT 0000 UTC OF 20<sup>TH</sup> MAY 2018 OVER ETHIOPIA AND ADJOINING NORTHWEST SOMALIA NEAR LAT. 10.0 °N AND LONG. 42.9 °E, ABOUT 140 KM TO THE WEST-NORTHWEST OF HARGEISA (SOMALIA). IT IS VERY LIKELY TO MOVE WEST-SOUTHWESTWARDS AND WEAKEN GRADUALLY INTO A WELL MARKED LOW PRESSURE AREA DURING NEXT SIX HOURS.

DATE/TIME (UTC)	POSITION (LAT. °N/ LONG. °E)	MAXIMUM SUSTAINED SURFACE WIND SPEED (KMPH)	CATEGORY OF CYCLONIC DISTURBANCE
20/0000	10.0/42.9	40-50 GUSTING TO 60	DEPRESSION

AS PER THE LATEST SATELLITE IMAGERY, ASSOCIATED BROKEN LOW AND MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION LIE OVER AREA BETWEEN LATITUDE 9.0°N TO 12.0°N LONGITUDE 40.0°E TO 44.5°E. MINIMUM CTT MINUS 93° C.

THE ESTIMATED CENTRAL PRESSURE IS ABOUT 1003 HPA AND THE MAXIMUM SUSTAINED SURFACE WIND SPEED IS 25 KNOTS GUSTING TO 35 KNOTS. STATE OF SEA IS ROUGH OVER GULF OF ADEN.

**REMARKS:**

THE SYSTEM WILL WEAKEN GRADUALLY DUE TO LAND INTERACTION INTO WELL MARKED LOW PRESSURE AREA DURING NEXT SIX HOURS.

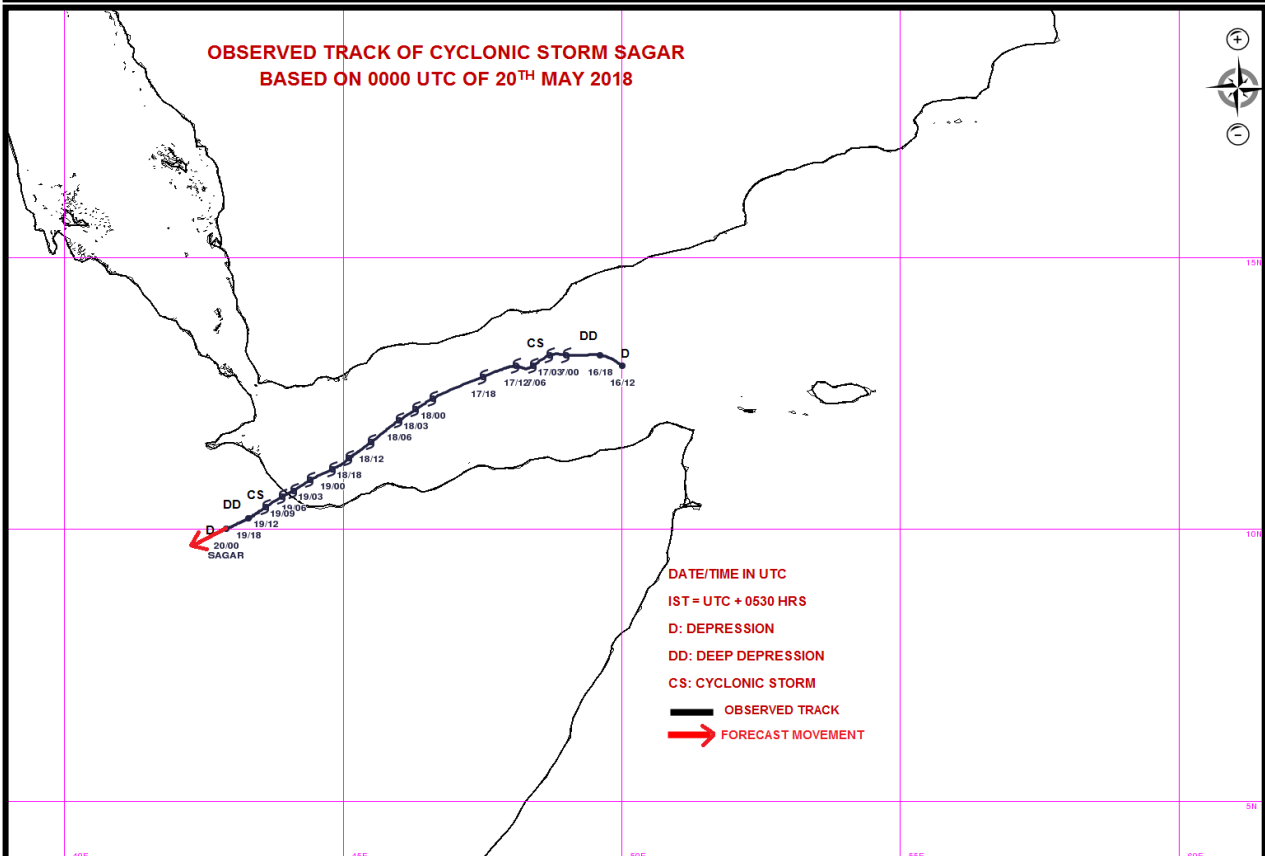
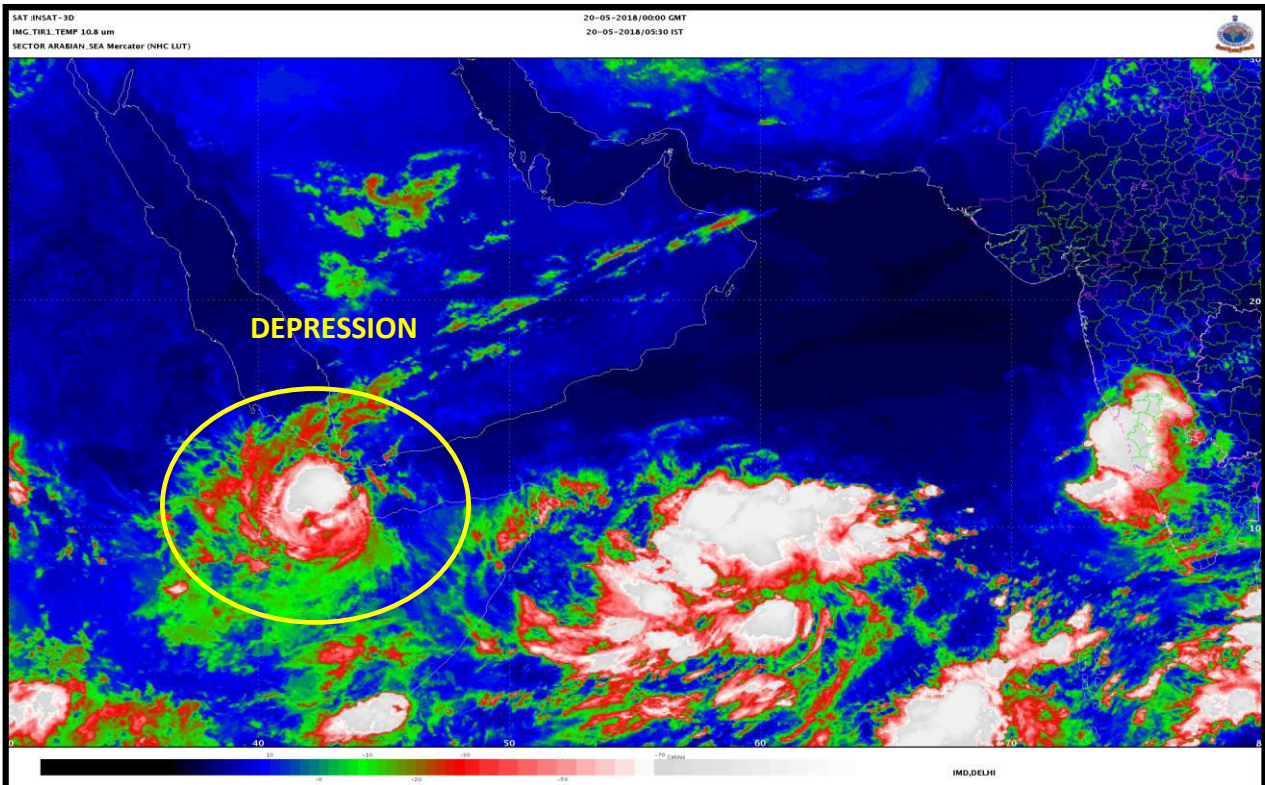
**(D. R. Pattanaik)**  
**SCIENTIST-E, RSMC, NEW DELHI**

**PROBABILITY OF CYCLOGENESIS (FORMATION OF DEPRESSION)**

**NIL: 0%, LOW: 1-25%, FAIR: 26-50%, MODERATE: 51-75% AND HIGH: 76-100%**

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**PROBABILITY OF CYCLOGENESIS (FORMATION OF DEPRESSION)**

**NIL: 0%, LOW: 1-25%, FAIR: 26-50%, MODERATE: 51-75% AND HIGH: 76-100%**

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**REGIONAL SPECIALISED METEOROLOGICAL CENTRE-TROPICAL CYCLONES, NEW DELHI**  
**TROPICAL CYCLONE ADVISORY BULLETIN**

**FROM: RSMC –TROPICAL CYCLONES, NEW DELHI**  
**TO: STORM WARNING CENTRE, NAYPYI TAW (MYANMAR)**  
**STORM WARNING CENTRE, BANGKOK (THAILAND)**  
**STORM WARNING CENTRE, COLOMBO (SRILANKA)**  
**STORM WARNING CENTRE, DHAKA (BANGLADESH)**  
**STORM WARNING CENTRE, KARACHI (PAKISTAN)**  
**METEOROLOGICAL OFFICE, MALE (MALDIVES)**  
**OMAN METEOROLOGICAL DEPARTMENT, MUSCAT (THROUGH RTH JEDDAH)**  
**YEMEN METEOROLOGICAL SERVICES, REPUBLIC OF YEMEN (THROUGH RTH JEDDAH)**

**TROPICAL STORM 'SAGAR' ADVISORY NO. TWENTY FOUR ISSUED AT 0500**  
**UTC OF 20<sup>TH</sup> MAY 2018 BASED ON 0300 UTC OF 20<sup>TH</sup> MAY 2018**

THE DEEP DEPRESSION OVER SOMALIA MOVED WEST-SOUTHWESTWARDS WITH A SPEED OF 08 KMPH DURING PAST 6 HOURS, WEAKENED INTO A DEPRESSION AND LAY CENTERED AT 0000 UTC OF 20<sup>TH</sup> MAY 2018 OVER ETHIOPIA AND ADJOINING NORTHWEST SOMALIA NEAR LAT. 10.0 °N AND LONG. 42.9 °E, ABOUT 140 KM TO THE WEST-NORTHWEST OF HARGEISA (SOMALIA). IT IS VERY LIKELY TO MOVE WEST-SOUTHWESTWARDS AND WEAKEN GRADUALLY INTO A WELL MARKED LOW PRESSURE AREA DURING NEXT SIX HOURS.

DATE/TIME (UTC)	POSITION (LAT. °N/ LONG. °E)	MAXIMUM SUSTAINED SURFACE WIND SPEED (KMPH)	CATEGORY OF CYCLONIC DISTURBANCE
20/0000	10.0/42.9	40-50 GUSTING TO 60	DEPRESSION

AS PER THE LATEST SATELLITE IMAGERY, ASSOCIATED BROKEN LOW AND MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION LIE OVER AREA BETWEEN LATITUDE 8.5°N TO 13.0°N LONGITUDE 40.0°E TO 44.5°E. MINIMUM CTT MINUS 80° C.

THE ESTIMATED CENTRAL PRESSURE IS ABOUT 1003 HPA AND THE MAXIMUM SUSTAINED SURFACE WIND SPEED IS 25 KNOTS GUSTING TO 35 KNOTS. STATE OF SEA IS ROUGH OVER GULF OF ADEN.

**REMARKS:**

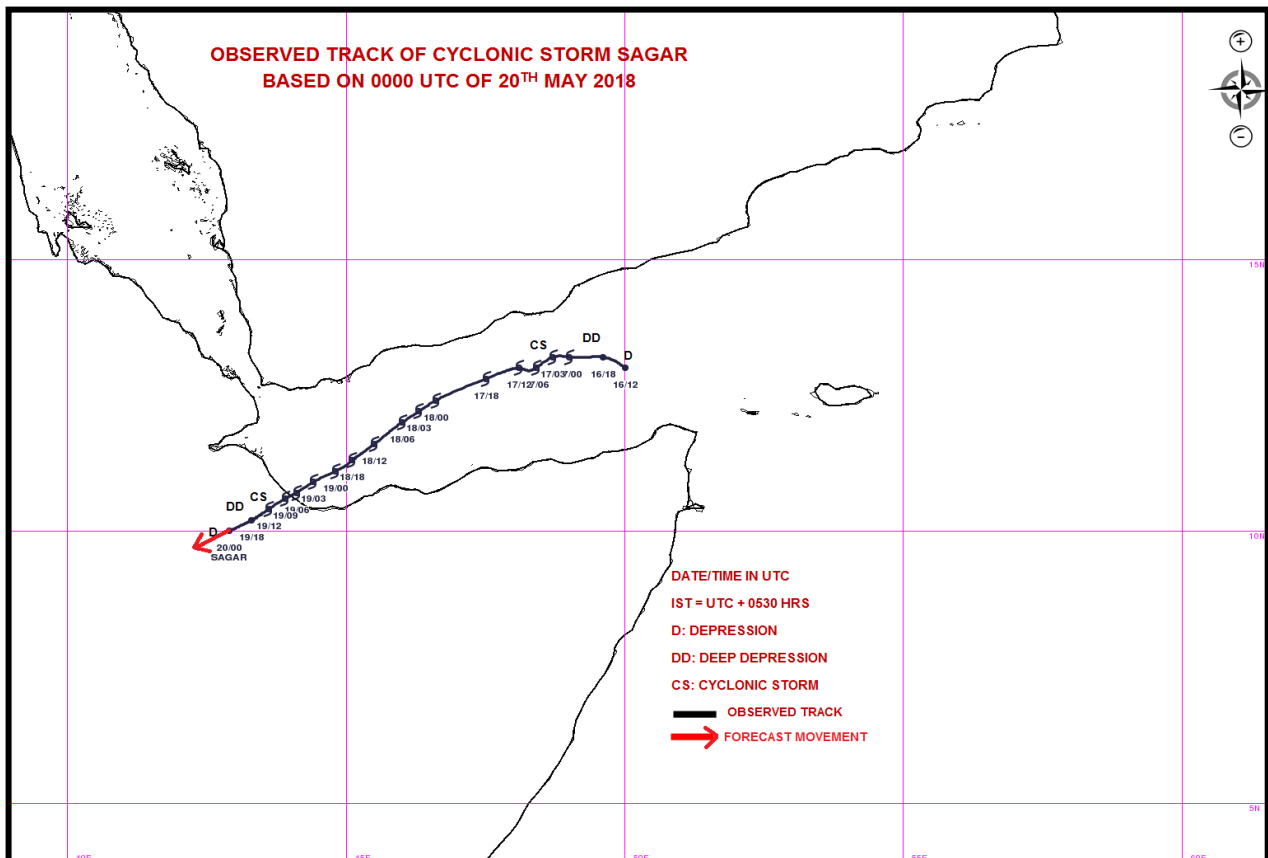
THE SYSTEM WILL WEAKEN GRADUALLY DUE TO LAND INTERACTION INTO WELL MARKED LOW PRESSURE AREA DURING NEXT SIX HOURS.

**(NEETHA K GOPAL)**  
**SCIENTIST-E, RSMC, NEW DELHI**

**PROBABILITY OF CYCLOGENESIS (FORMATION OF DEPRESSION)**

**NIL: 0%, LOW: 1-25%, FAIR: 26-50%, MODERATE: 51-75% AND HIGH: 76-100%**

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