



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

**DEMS-RSMC SPECIAL TROPICAL CYCLONES NEW DELHI DATED 28-05-2017**

**TROPICAL WEATHER OUTLOOK FOR NORTH INDIAN OCEAN (THE BAY OF BENGAL AND ARABIAN SEA) VALID FOR NEXT 72 HOURS ISSUED AT 0300 UTC OF 28<sup>TH</sup> MAY 2017 BASED ON 0000 UTC OF 28<sup>TH</sup> MAY 2017**

THE WELL MARKED LOW PRESSURE AREA OVER SOUTHEAST BAY OF BENGAL (BOB) AND ADJOINING AREAS OF CENTRAL BOB HAS CONCENTRATED INTO A DEPRESSION OVER CENTRAL BAY OF BENGAL AND LAY CENTRED AT 0000 UTC OF TODAY, THE 28<sup>TH</sup> MAY, 2017 NEAR LATITUDE 14.0° N AND LONGITUDE 88.5 °E, ABOUT 950 KM SOUTH OF KOLKATA AND 980 KM AND SOUTH-SOUTHWEST OF CHITTAGONG. THE SYSTEM IS VERY LIKELY TO MOVE NORTH-NORTHEASTWARDS AND REACH BANGLADESH COAST BY 30<sup>TH</sup> MAY 2017 FORENOON. IT IS VERY LIKELY TO INTENSIFY INTO A DEEP DEPRESSION DURING NEXT 24 HOURS.

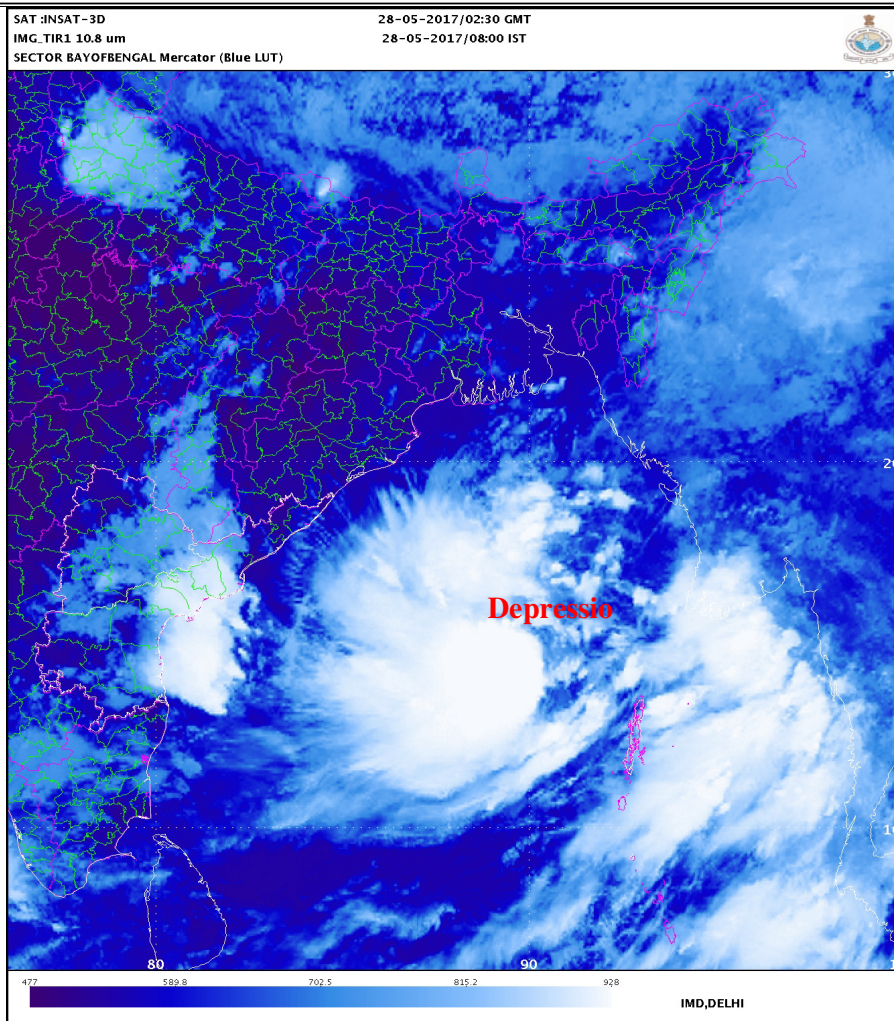
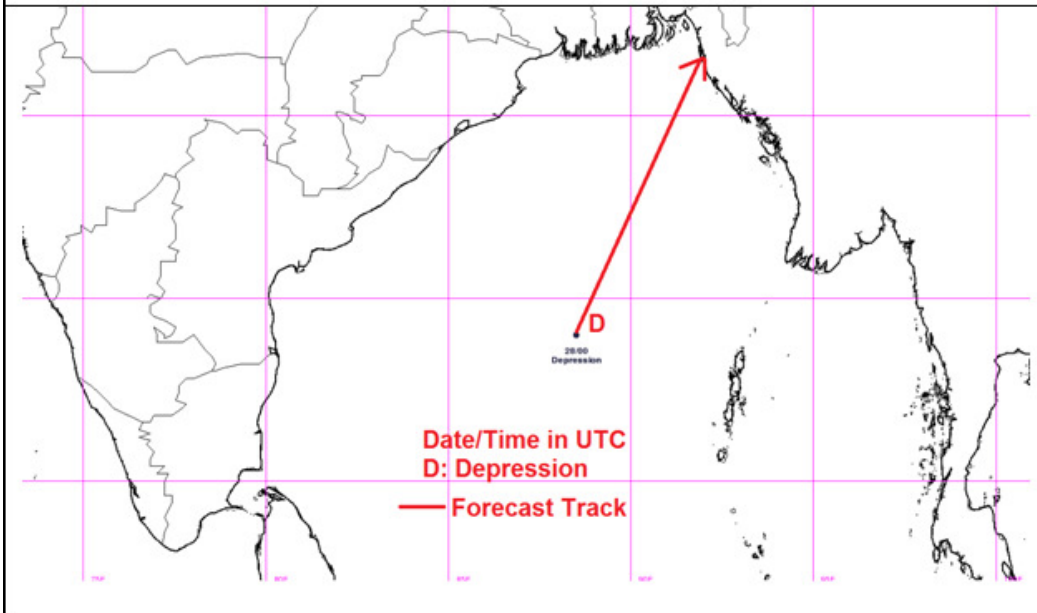
ACCORDING TO SATELLITE IMAGERY, INTENSITY OF THE SYSTEM IS T1.5. THE MAXIMUM SURFACE SUSTAINED SURFACE WIND (MSW) IS 25 KNOTS GUSTING TO 35 KNOTS. THE ESTIMATED CENTRAL PRESSURE IS ABOUT 1000 HPA. THE BUOY NEAR LATITUDE 16.5° N AND LONGITUDE 88.0 °E REPORTED MEAN SEA LEVEL PRESSURE (MSLP) OF 1000.2 HPA AND MSW 340/14 KNOTS. ANOTHER BUOY NEAR LATITUDE 14.0° N AND LONGITUDE 87.0°E REPORTED MSLP OF 1000.3 HPA AND MSW 290/16 KNOTS.

THE CONVECTION HAS ORGANISED DURING PAST 24 HOURS AND SHOWS CURVED BAND PATTERN WITH WELL DEFINED WRAPPING INTO THE CENTRE FROM EASTERN SECTOR. BROKEN LOW AND MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION LIE OVER BOB BETWEEN LATITUDE 11.0°N TO 18.0°N AND LONGITUDE 85.0°E TO 91.0°E. THE SEA SURFACE TEMPERATURE AROUND THE SYSTEM CENTRE IS 29-30°C. THE VERTICAL WIND SHEAR IS 10 KTS, VORTICITY IS AROUND  $150 \times 10^{-6} \text{ S}^{-1}$ , LOWER LEVEL CONVERGENCE IS  $20 \times 10^{-5} \text{ S}^{-1}$  AND UPPER LEVEL DIVERGENCE IS  $30 \times 10^{-5} \text{ S}^{-1}$ . THE UPPER TROPOSPHERIC RIDGE AT 200 HPA LEVEL RUNS ALONG 18.0° N IN ASSOCIATION WITH ANTICYCLONIC CIRCULATION TO THE NORTHEAST OF SYSTEM CENTRE. A TROUGH IN MIDDLE & UPPER TROPOSPHERIC LIES OVER EASTERN INDIA ALONG NEAR LONGITUDE 85.0°E. MADDEN JULIAN OSCILLATION INDEX LIES IN PHASE 2 WITH AMPLITUDE NEAR 1. IT WOULD MOVE TO PHASE 3 WITH INCREASING AMPLITUDE DURING NEXT 3 DAYS. CURRENT ENVIRONMENTAL CONDITIONS ARE SUPPORTING FOR FURTHER INTENSIFICATION OF THE SYSTEM. DYNAMICAL STATISTICAL MODELS ALSO SUGGEST FURTHER INTENSIFICATION OF THE SYSTEM. CONSIDERING THE MOVEMENT, MOST OF THE MODELS ARE UNANIMOUS ABOUT NORTH-NORTHEASTWARD MOVEMENT DURING NEXT 48 HRS.

(M.MOHAPATRA)  
HEAD-RSMC, NEW DELHI

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**OBSERVED POSITION AND FORECAST TRACK OF DEPRESSION OVER BAY OF BENGAL BASED ON 0000 UTC OF 28<sup>TH</sup> MAY, 2017**





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

**DEMS-RSMC SPECIAL TROPICAL CYCLONES NEW DELHI DATED 28-05-2017**

**TROPICAL WEATHER OUTLOOK FOR NORTH INDIAN OCEAN (THE BAY OF BENGAL AND ARABIAN SEA) VALID FOR NEXT 72 HOURS ISSUED AT 0600 UTC OF 28<sup>TH</sup> MAY 2017 BASED ON 0300 UTC OF 28<sup>TH</sup> MAY 2017**

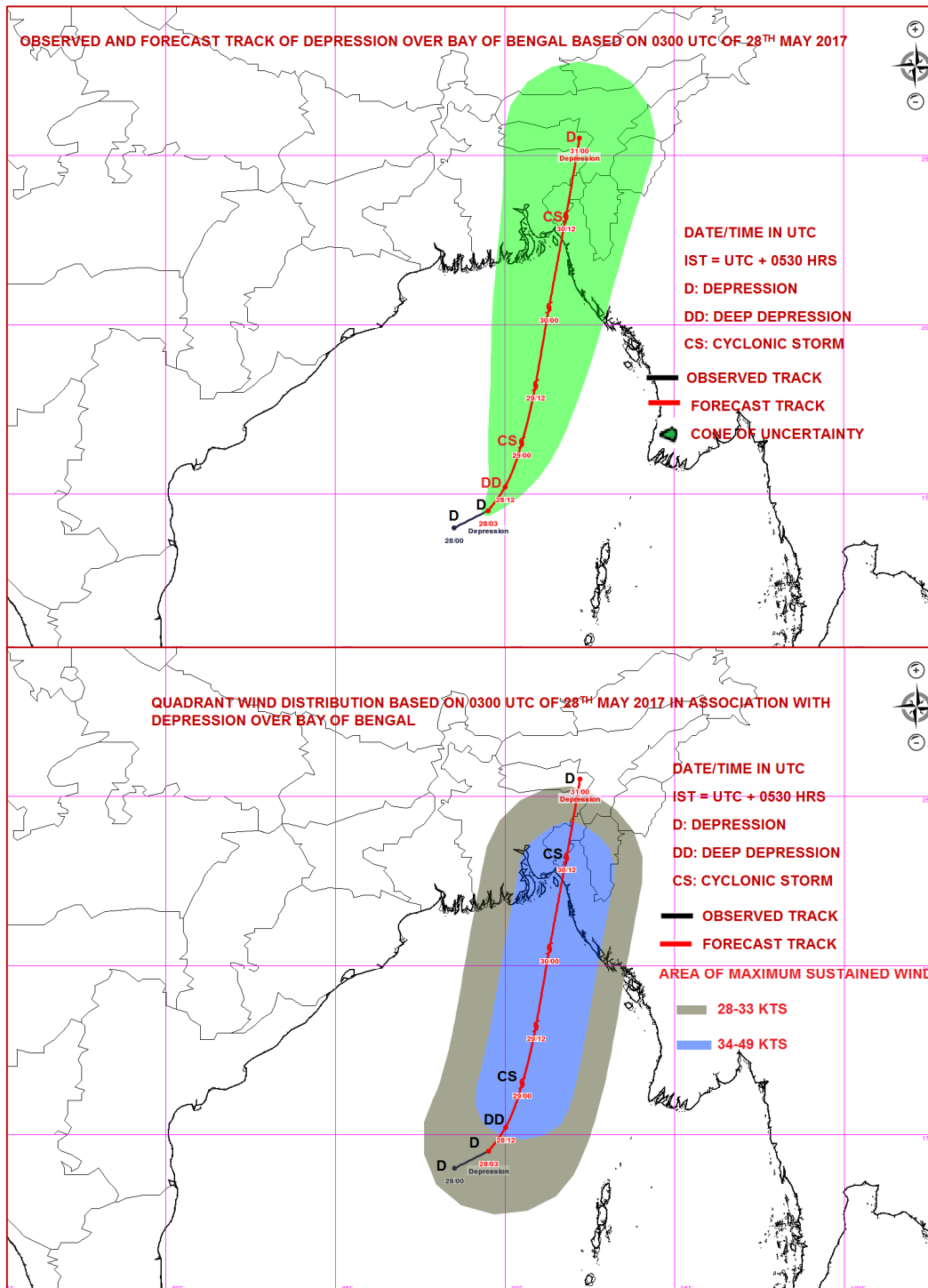
THE DEPRESSION OVER CENTRAL BAY OF BENGAL MOVED EAST-NORTHEASTWARDS WITH A SPEED OF 40 KMPH DURING PAST 3 HOURS AND LAY CENTRED AT 0300 UTC OF TODAY, THE 28<sup>TH</sup> MAY, 2017 OVER EASTCENTRAL BAY OF BENGAL NEAR LATITUDE 14.5° N AND LONGITUDE 89.5°E, ABOUT 900 KM NEARLY SOUTH-SOUTHEAST OF KOLKATA (42807) AND 890 KM SOUTH-SOUTHWEST OF CHITTAGONG(41978). IT IS VERY LIKELY TO INTENSIFY INTO A DEEP DEPRESSION DURING NEXT 12 HOURS AND INTO A CYCLONIC STORM DURING SUBSEQUENT 24 HOURS. THE SYSTEM IS VERY LIKELY TO MOVE NORTH-NORTHEASTWARDS AND CROSS BANGLADESH COAST BETWEEN LONGITUDE 91.0 °E AND 92.0°E AROUND 30<sup>TH</sup> MAY 2017 NOON.

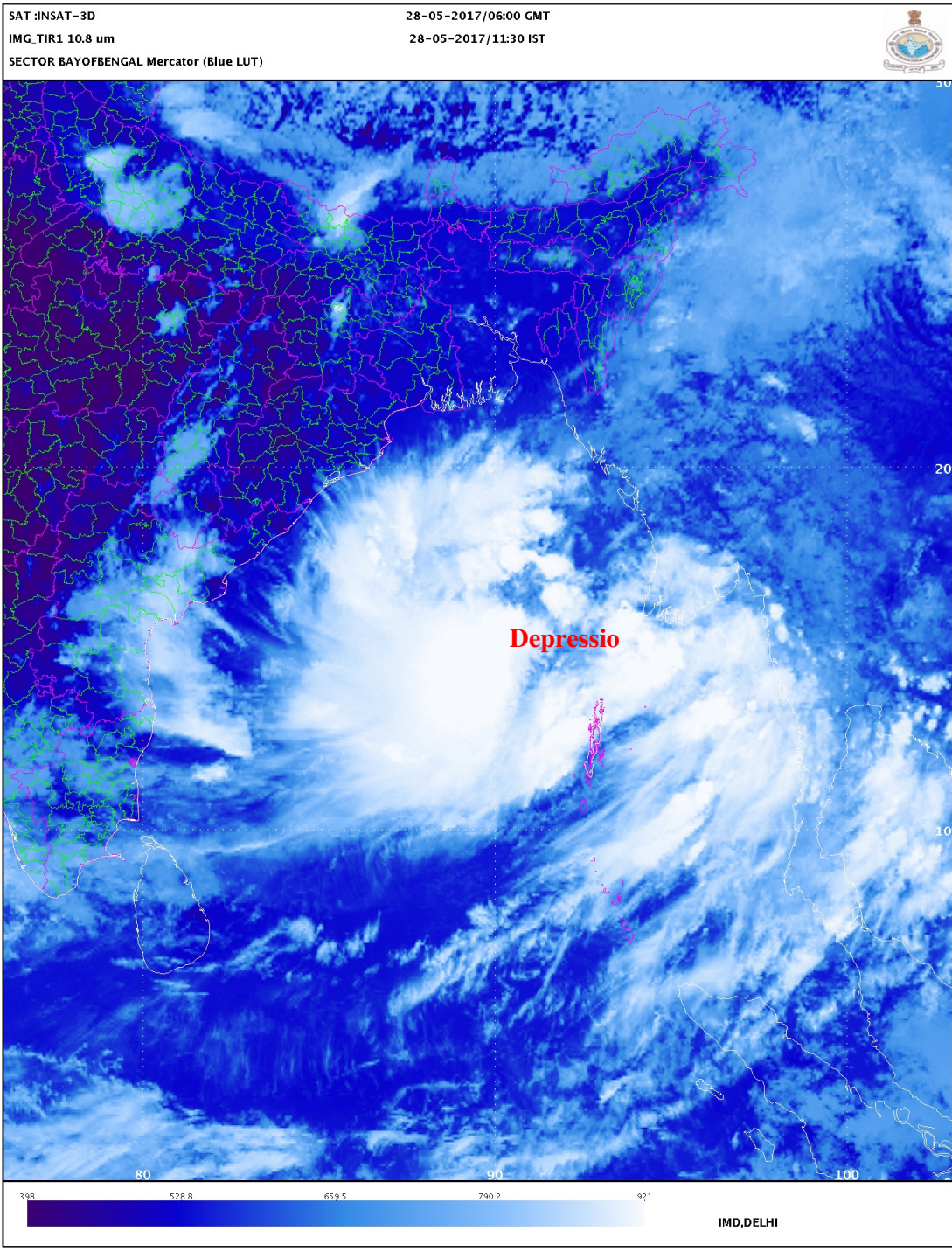
ACCORDING TO SATELLITE IMAGERY, INTENSITY OF THE SYSTEM IS T1.5. THE MAXIMUM SURFACE SUSTAINED SURFACE WIND (MSW) IS 25 KNOTS GUSTING TO 35 KNOTS. THE ESTIMATED CENTRAL PRESSURE IS ABOUT 1000 HPA. THE BUOY NEAR LATITUDE 16.5° N AND LONGITUDE 88.0 °E REPORTED MEAN SEA LEVEL PRESSURE (MSLP) OF 1001.6 HPA AND MSW 040/12 KNOTS. ANOTHER BUOY NEAR LATITUDE 14.0° N AND LONGITUDE 87.0°E REPORTED MSLP OF 1000.3 HPA AND MSW 280/16 KNOTS.

THE CONVECTION HAS ORGANISED DURING PAST 24 HOURS AND SHOWS CURVED BAND PATTERN WITH WELL DEFINED WRAPPING INTO THE CENTRE FROM EASTERN SECTOR. BROKEN LOW AND MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION LIE OVER BOB BETWEEN LATITUDE 11.0°N TO 19.0°N AND LONGITUDE 84.0°E TO 91.0°E. THE ESTIMATED CTT IS AROUND -85°C. THE SEA SURFACE TEMPERATURE AROUND THE SYSTEM CENTRE IS 29-30°C. THE VERTICAL WIND SHEAR IS 10 KTS, VORTICITY IS AROUND  $150 \times 10^{-6} \text{ S}^{-1}$ , LOWER LEVEL CONVERGENCE IS  $20 \times 10^{-5} \text{ S}^{-1}$  AND UPPER LEVEL DIVERGENCE IS  $30 \times 10^{-5} \text{ S}^{-1}$ . THE UPPER TROPOSPHERIC RIDGE AT 200 HPA LEVEL RUNS ALONG 18.0°N IN ASSOCIATION WITH ANTICYCLONIC CIRCULATION TO THE NORTHEAST OF SYSTEM CENTRE. A TROUGH IN MIDDLE & UPPER TROPOSPHERIC LIES OVER EASTERN INDIA ALONG NEAR LONGITUDE 85.0°E. MADDEN JULIAN OSCILLATION INDEX LIES IN PHASE 2 WITH AMPLITUDE NEAR 1. IT WOULD MOVE TO PHASE 3 WITH INCREASING AMPLITUDE DURING NEXT 3 DAYS. CURRENT ENVIRONMENTAL CONDITIONS ARE SUPPORTING FOR FURTHER INTENSIFICATION OF THE SYSTEM. DYNAMICAL STATISTICAL MODELS ALSO SUGGEST FURTHER INTENSIFICATION OF THE SYSTEM. CONSIDERING THE MOVEMENT, MOST OF THE MODELS ARE UNANIMOUS ABOUT NORTH-NORTHEASTWARD MOVEMENT DURING NEXT 48 HRS.

(NARESH KUMAR)  
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**REGIONAL SPECIALISED METEOROLOGICAL CENTRE-  
TROPICAL CYCLONES, NEW DELHI  
SPECIAL TROPICAL WEATHER OUTLOOK**

**DEMS-RSMC SPECIAL TROPICAL CYCLONES NEW DELHI DATED 28-05-2017**

**TROPICAL WEATHER OUTLOOK FOR NORTH INDIAN OCEAN (THE BAY OF BENGAL AND ARABIAN SEA) VALID FOR NEXT 72 HOURS ISSUED AT 1200 UTC OF 28<sup>TH</sup> MAY 2017 BASED ON 0900 UTC OF 28<sup>TH</sup> MAY 2017**

THE DEPRESSION OVER EASTCENTRAL BAY OF BENGAL MOVED NORTHEASTWARDS DURING PAST 06 HOURS WITH A SPEED OF 24 KMPH, INTENSIFIED INTO A DEEP DEPRESSION AND LAY CENTRED AT 0900 UTC OF TODAY, THE 28<sup>TH</sup> MAY, 2017 OVER EASTCENTRAL BAY OF BENGAL NEAR LATITUDE 15.4°N AND LONGITUDE 90.5°E, ABOUT 820 KM NEARLY SOUTH-SOUTHEAST OF KOLKATA(42807) AND 770 KM SOUTH-SOUTHWEST OF CHITTAGONG(41978). THE SYSTEM IS VERY LIKELY TO MOVE NORTH-NORTHEASTWARDS AND CROSS BANGLADESH COAST BETWEEN LONGITUDE 91.0 °E AND 92.0°E NEAR CHITTAGONG AROUND 30<sup>TH</sup> MAY 2017 NOON. IT IS VERY LIKELY TO INTENSIFY INTO A CYCLONIC STORM DURING NEXT 24 HOURS.

OBSERVED AND FORECAST TRACK POSITIONS AND INTENSITY OF THE SYSTEM ARE GIVEN BELOW.

DATE/TIME(UTC)	POSITION (LAT. °N/ LONG. °E)	MAXIMUM SUSTAINED SURFACE WIND SPEED (KMPH)	CATEGORY OF CYCLONIC DISTURBANCE
28.05.2017/0900	15.4/90.5	50-60 GUSTING TO 70	DEEP DEPRESSION
28.05.2017/1200	15.7/90.7	55-65 GUSTING TO 75	DEEP DEPRESSION
28.05.2017/1800	16.0/90.9	65-75 GUSTING TO 85	CYCLONIC STORM
29.05.2017/0000	16.7/91.1	75-85 GUSTING TO 95	CYCLONIC STORM
29.05.2017/0600	17.5/91.3	80-90 GUSTING TO 100	CYCLONIC STORM
29.05.2017/1800	19.7/91.4	90-100 GUSTING TO 110	SEVERE CYCLONIC STORM
30.05.2017/0600	22.3/91.7	90-100 GUSTING TO 110	SEVERE CYCLONIC STORM
30.05.2017/1800	24.7/92.3	45-55 GUSTING TO 65	DEPRESSION
31.05.2017/0600	27.0/93.3	25-35 GUSTING TO 45	WELL MARKED LOW

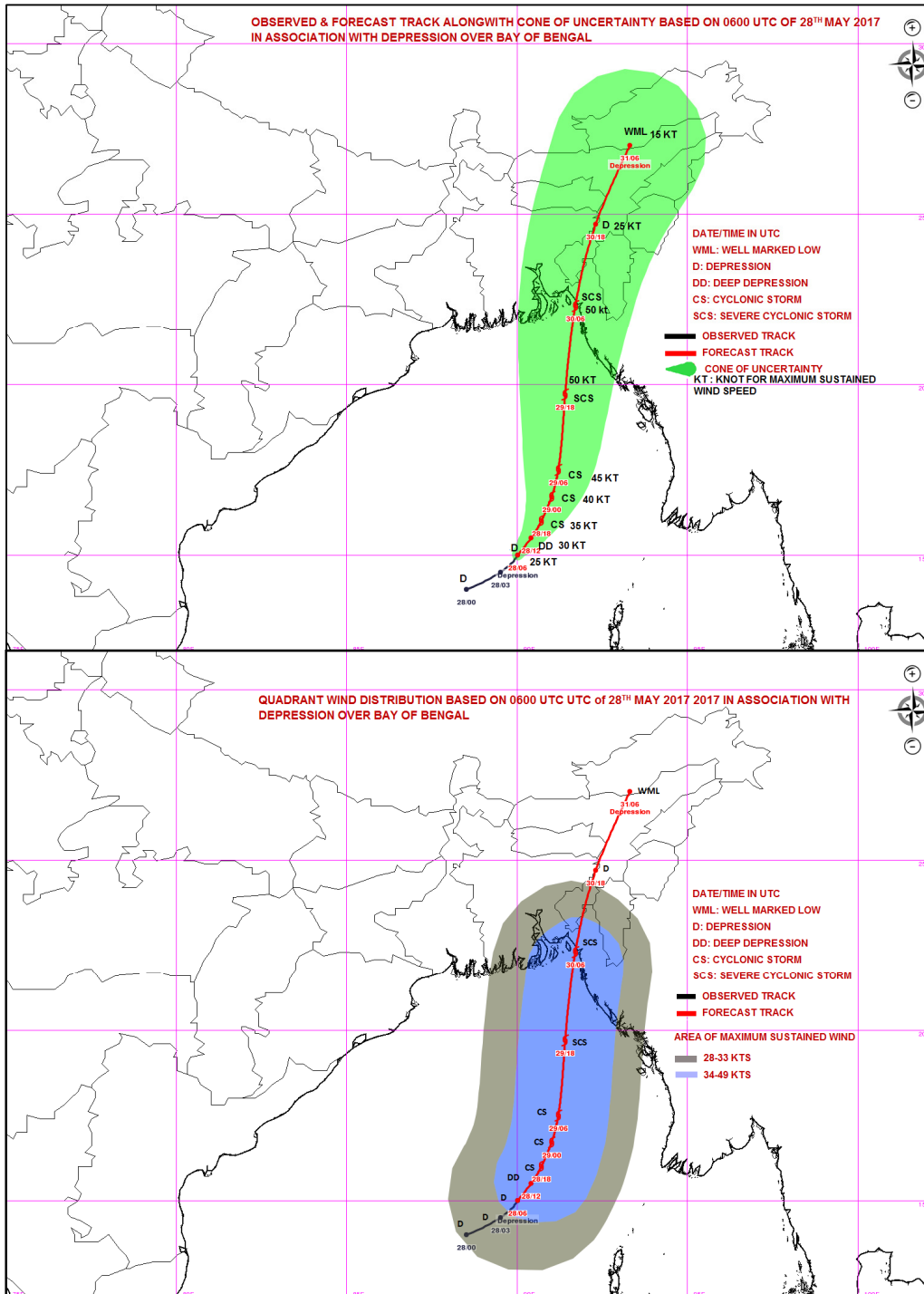
ACCORDING TO SATELLITE IMAGERY, INTENSITY OF THE SYSTEM IS T2.0. THE MAXIMUM SURFACE SUSTAINED SURFACE WIND (MSW) IS 30 KNOTS GUSTING TO 40 KNOTS. THE ESTIMATED CENTRAL PRESSURE IS ABOUT 998 HPA. THE BUOY NEAR LATITUDE 16.5° N AND LONGITUDE 88.0 °E REPORTED MEAN SEA LEVEL PRESSURE (MSLP) OF 1001.0 HPA AND MSW 300/16 KNOTS. ANOTHER BUOY NEAR LATITUDE 17.4° N AND LONGITUDE 89.0°E REPORTED MSLP OF 1002.3 HPA AND MSW 010/21 KNOTS.

THE CONVECTION HAS FURTHER ORGANISED DURING PAST 24 HOURS AND SHOWS CURVED BAND PATTERN WITH WELL DEFINED WRAPPING INTO THE CENTRE FROM EASTERN SECTOR. BROKEN LOW AND MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION LIE OVER BOB

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BETWEEN LATITUDE 10.0°N TO 20.0°N AND LONGITUDE 85.0°E TO 93.0°E. THE ESTIMATED CTT IS AROUND -90°C. THE SEA SURFACE TEMPERATURE AROUND THE SYSTEM CENTRE IS 29-30°C. THE VERTICAL WIND SHEAR IS 10 KTS, VORTICITY IS AROUND  $150 \times 10^{-5} \text{ S}^{-1}$ , LOWER LEVEL CONVERGENCE IS  $20 \times 10^{-5} \text{ S}^{-1}$  AND UPPER LEVEL DIVERGENCE IS  $30 \times 10^{-5} \text{ S}^{-1}$ . THE UPPER TROPOSPHERIC RIDGE AT 200 HPA LEVEL RUNS ALONG 18.0°N IN ASSOCIATION WITH ANTICYCLONIC CIRCULATION TO THE NORTHEAST OF SYSTEM CENTRE. A TROUGH IN MIDDLE & UPPER TROPOSPHERIC LIES OVER EASTERN INDIA ALONG NEAR LONGITUDE 85.0°E. MADDEN JULIAN OSCILLATION INDEX LIES IN PHASE 2 WITH AMPLITUDE NEAR 1. IT WOULD MOVE TO PHASE 3 WITH INCREASING AMPLITUDE DURING NEXT 3 DAYS. CURRENT ENVIRONMENTAL CONDITIONS ARE SUPPORTING FOR FURTHER INTENSIFICATION OF THE SYSTEM. DYNAMICAL STATISTICAL MODELS ALSO SUGGEST FURTHER INTENSIFICATION OF THE SYSTEM. CONSIDERING THE MOVEMENT, MOST OF THE MODELS ARE UNANIMOUS ABOUT NORTH-NORTHEASTWARD MOVEMENT DURING NEXT 48 HRS.

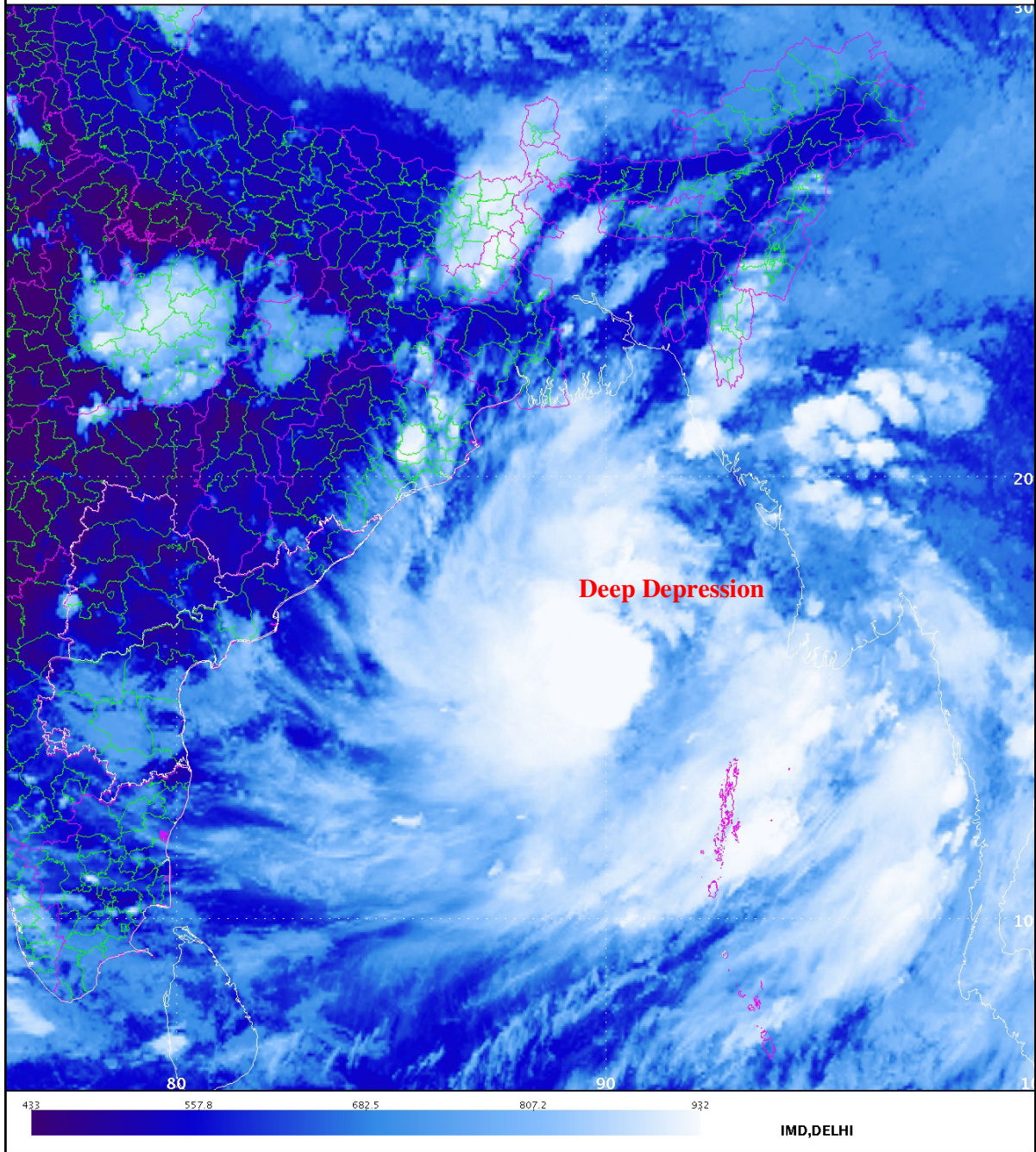
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SCIENTIST 'D'  
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IMG\_TIR1 10.8 um  
SECTOR BAYOFBENGAL Mercator (Blue LUT)

28-05-2017/11:00 GMT  
28-05-2017/16:30 IST



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



**DEMS-RSMC SPECIAL TROPICAL CYCLONES NEW DELHI DATED 28-05-2017**

**TROPICAL WEATHER OUTLOOK FOR NORTH INDIAN OCEAN (THE BAY OF BENGAL AND ARABIAN SEA) VALID FOR NEXT 72 HOURS ISSUED AT 1500 UTC OF 28<sup>TH</sup> MAY 2017 BASED ON 1200 UTC OF 28<sup>TH</sup> MAY 2017**

THE DEEP DEPRESSION OVER EASTCENTRAL BAY OF BENGAL MOVED FURTHER NORTHEASTWARDS DURING PAST 06 HOURS WITH A SPEED OF 18 KMPH AND LAY CENTRED AT 1200 UTC OF TODAY, THE 28<sup>TH</sup> MAY, 2017 OVER EASTCENTRAL BAY OF BENGAL NEAR LATITUDE 15.7°N AND LONGITUDE 90.7°E, ABOUT 800 KM NEARLY SOUTH-SOUTHEAST OF KOLKATA(42807) AND 740 KM SOUTH-SOUTHWEST OF CHITTAGONG(41978). THE SYSTEM IS VERY LIKELY TO INTENSIFY INTO A CYCLONIC STORM DURING NEXT 24 HOURS. IT IS VERY LIKELY TO MOVE NORTH-NORTHEASTWARDS AND CROSS BANGLADESH COAST BETWEEN LONGITUDE 91.0°E AND 92.0°E NEAR CHITTAGONG AROUND 30<sup>TH</sup> MAY 2017 NOON.

OBSERVED AND FORECAST TRACK POSITIONS AND INTENSITY OF THE SYSTEM ARE GIVEN BELOW.

DATE/TIME(UTC)	POSITION (LAT. °N/ LONG. °E)	MAXIMUM SUSTAINED SURFACE WIND SPEED (KMPH)	CATEGORY OF CYCLONIC DISTURBANCE
28.05.2017/1200	15.7/90.7	55-65 GUSTING TO 75	DEEP DEPRESSION
28.05.2017/1800	16.0/90.9	60-70 GUSTING TO 80	CYCLONIC STORM
29.05.2017/0000	16.7/91.1	70-80 GUSTING TO 90	CYCLONIC STORM
29.05.2017/0600	17.5/91.3	80-90 GUSTING TO 100	CYCLONIC STORM
29.05.2017/1200	18.6/91.4	90-100 GUSTING TO 110	SEVERE CYCLONIC STORM
30.05.2017/0000	21.0/91.6	90-100 GUSTING TO 110	SEVERE CYCLONIC STORM
30.05.2017/1200	23.5/92.0	60-70 GUSTING TO 80	CYCLONIC STORM
31.05.2017/0000	25.9/92.8	35-45 GUSTING TO 55	DEPRESSION

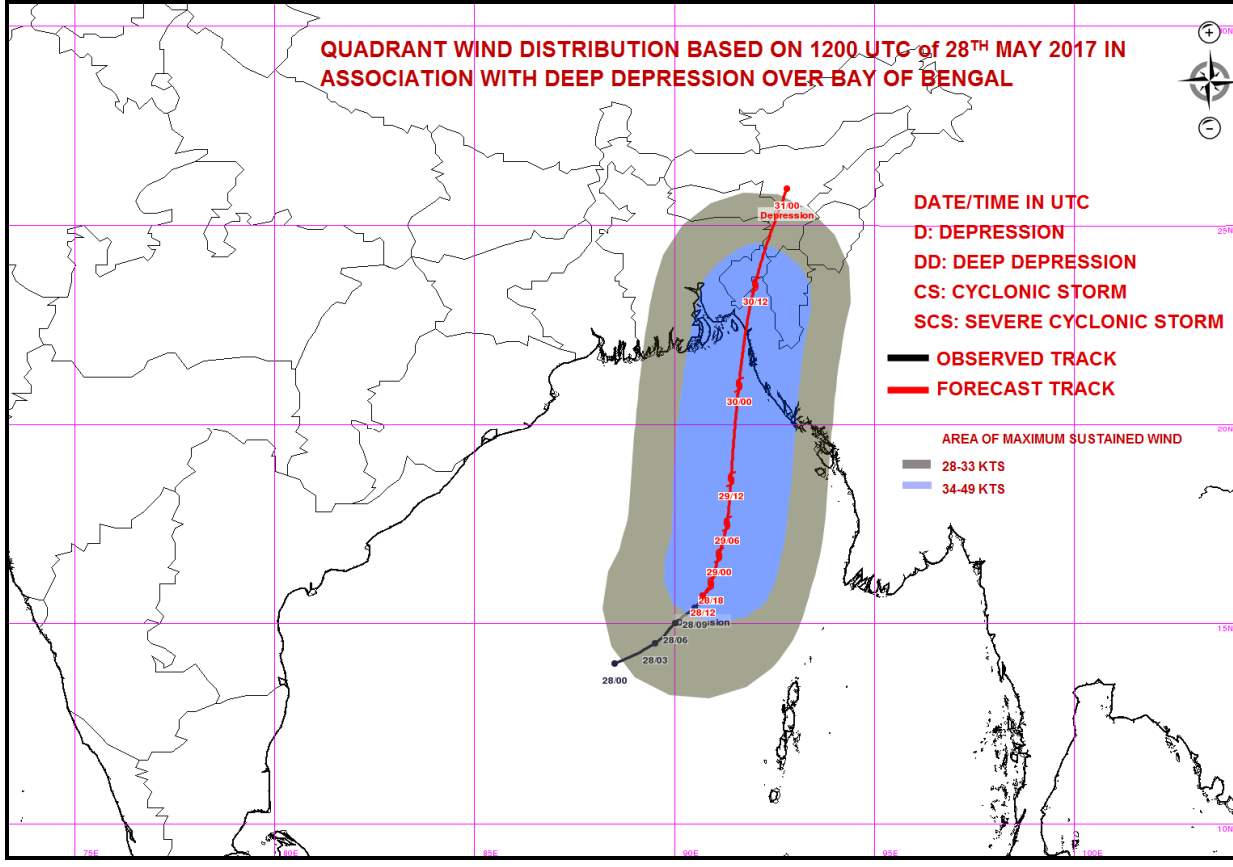
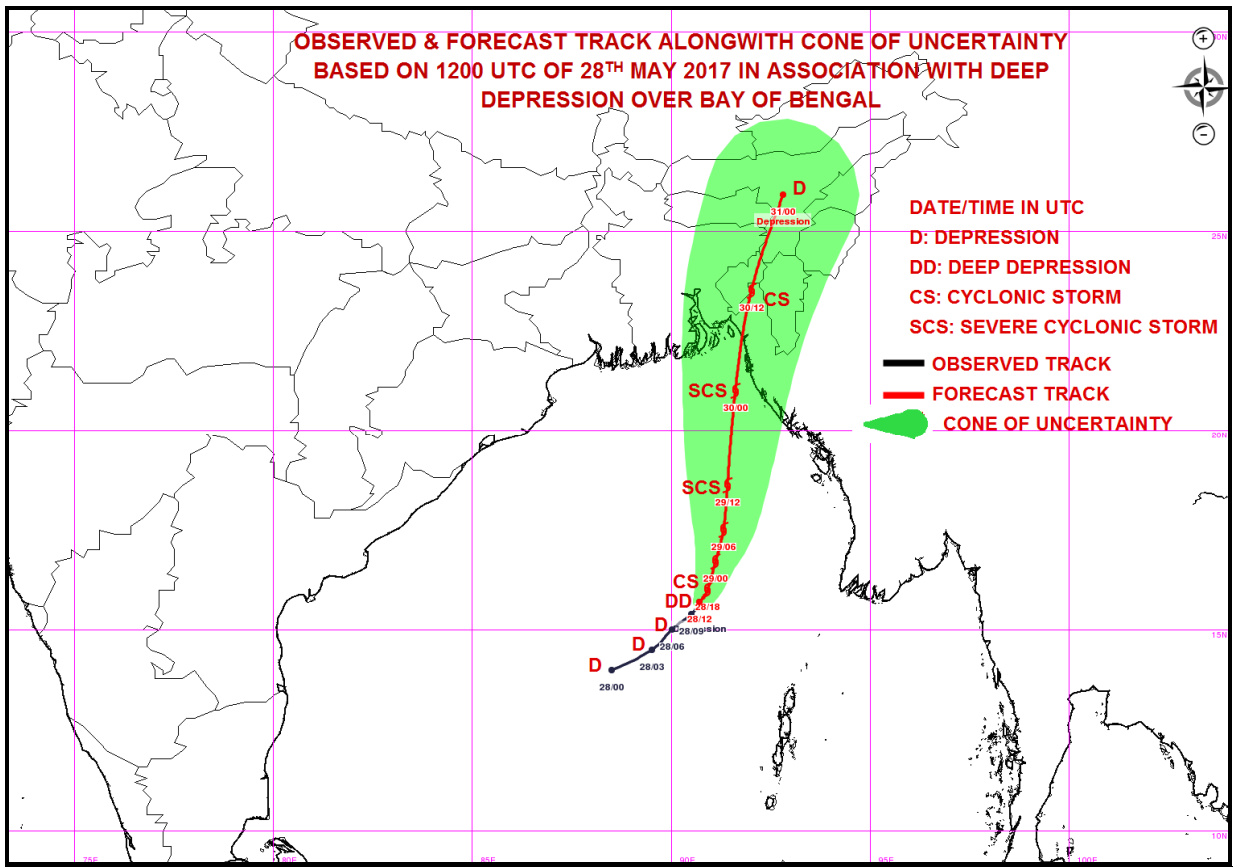
ACCORDING TO SATELLITE IMAGERY, INTENSITY OF THE SYSTEM IS T2.0. THE MAXIMUM SURFACE SUSTAINED SURFACE WIND (MSW) IS 30 KNOTS GUSTING TO 40 KNOTS. THE ESTIMATED CENTRAL PRESSURE IS ABOUT 998 HPA. A BUOY NEAR LATITUDE 16.5° N AND LONGITUDE 88.0 °E REPORTED MEAN SEA LEVEL PRESSURE (MSLP) OF 1000.8 HPA. ANOTHER BUOY NEAR LATITUDE 17.4° N AND LONGITUDE 89.0°E REPORTED MSLP OF 1003.0 HPA AND MSW 010/23 KNOTS.

THE CONVECTION SHOWS CURVED BAND PATTERN. BROKEN LOW AND MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION LIE OVER BOB BETWEEN LATITUDE 10.0°N TO 20.0°N AND LONGITUDE 85.0°E TO 93.0°E. THE ESTIMATED CTT IS AROUND -90°C. THE SEA SURFACE TEMPERATURE AROUND THE SYSTEM CENTRE IS 30-31°C. THE OCEAN THERMAL ENERGY IS ABOUT 100 KJ/CM<sup>2</sup>. THE VERTICAL WIND SHEAR IS MODERATE AROUND THE SYSTEM CENTRE AND IS AROUND 15-20 KTS, VORTICITY IS AROUND 150 X10<sup>-5</sup> S<sup>-1</sup>, LOWER LEVEL CONVERGENCE IS 10 X10<sup>-5</sup> S<sup>-1</sup> AND UPPER LEVEL DIVERGENCE IS 20 X10<sup>-5</sup> S<sup>-1</sup>. THE UPPER

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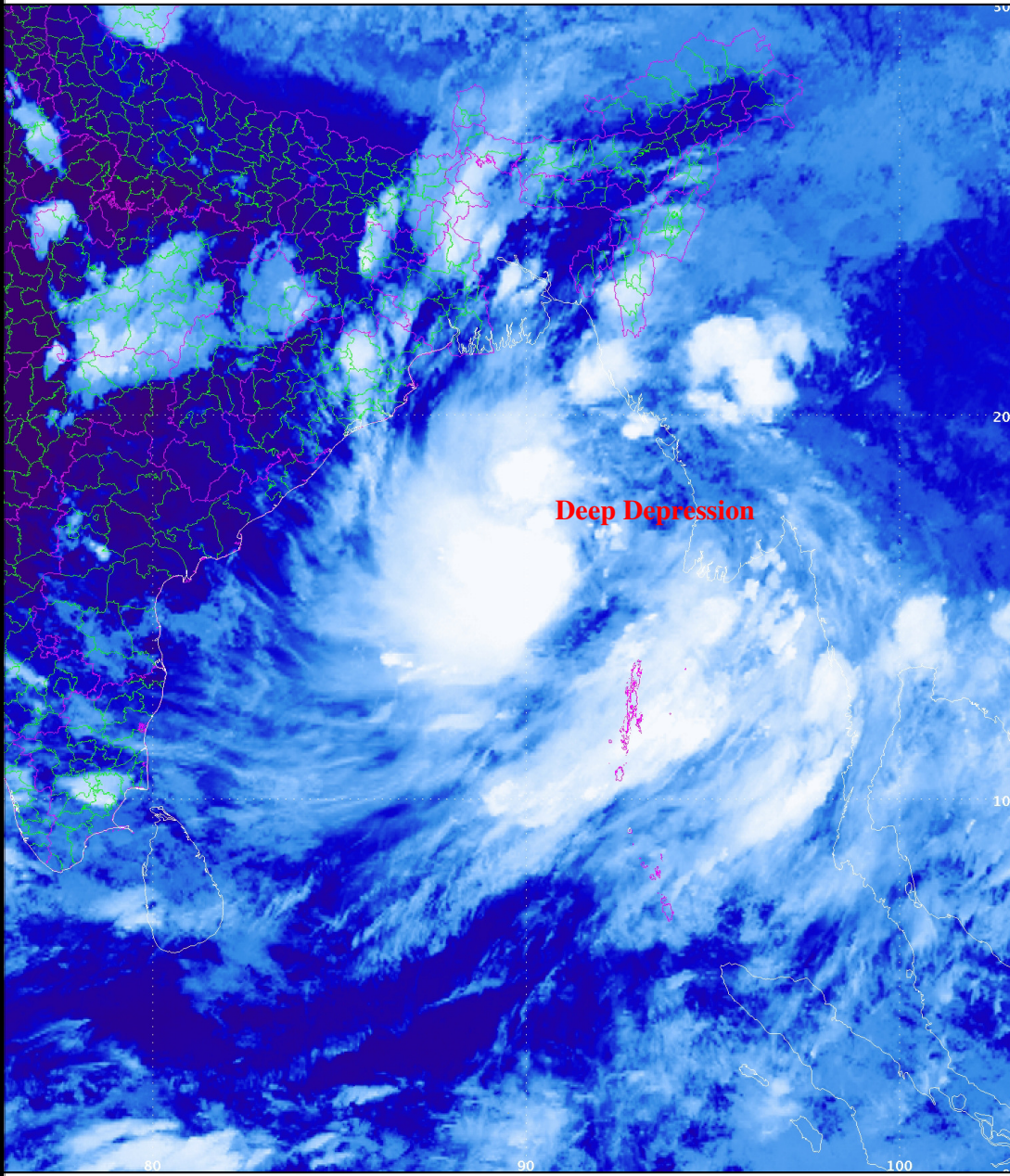
TROPOSPHERIC RIDGE AT 200 HPA LEVEL RUNS ALONG 19.0°N IN ASSOCIATION WITH ANTICYCLONIC CIRCULATION TO THE NORTHEAST OF SYSTEM CENTRE. A TROUGH IN MIDDLE & UPPER TROPOSPHERIC LIES OVER EASTERN INDIA ALONG NEAR LONGITUDE 85.0°E. MADDEN JULIAN OSCILLATION INDEX LIES IN PHASE 2 WITH AMPLITUDE NEAR 1. IT WOULD MOVE TO PHASE 3 WITH INCREASING AMPLITUDE DURING NEXT 3 DAYS. CURRENT ENVIRONMENTAL CONDITIONS ARE SUPPORTING FOR FURTHER INTENSIFICATION OF THE SYSTEM. DYNAMICAL STATISTICAL MODELS ALSO SUGGEST FURTHER INTENSIFICATION OF THE SYSTEM. CONSIDERING THE MOVEMENT, MOST OF THE MODELS ARE UNANIMOUS ABOUT NORTH-NORTHEASTWARD MOVEMENT DURING NEXT 48 HRS.

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SECTOR BAYOFBENGAL Mercator (Blue LUT)

28-05-2017/13:00 GMT  
28-05-2017/18:30 IST



IMD,DELHI



**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 CYCLONE ADVISORY**  
**RSMC – TROPICAL CYCLONES, NEW DELHI**

**TROPICAL STORM 'MORA' ADVISORY NO. ONE ISSUED AT 1800 UTC OF 28<sup>TH</sup> MAY  
2017 BASED ON 1500 UTC CHARTS OF 28<sup>TH</sup> MAY 2017**

THE DEEP DEPRESSION OVER EASTCENTRAL BAY OF BENGAL MOVED NORTHEASTWARD DURING PAST 06 HOURS WITH A SPEED OF 14 KMPH, INTENSIFIED INTO A CYCLONIC STORM '**MORA**' AND LAY CENTRED AT 1500 UTC OF TODAY, 28<sup>TH</sup> MAY, 2017 OVER EASTCENTRAL BAY OF BENGAL NEAR LATITUDE 16.0°N AND LONGITUDE 91.0°E, ABOUT 770 KM NEARLY SOUTH-SOUTHEAST OF KOLKATA(42807) AND 700 KM SOUTH-SOUTHWEST OF CHITTAGONG(41978). THE SYSTEM IS LIKELY TO INTENSIFY FURTHER INTO A SEVERE CYCLONIC STORM DURING NEXT 24 HOURS. IT IS VERY LIKELY TO MOVE NORTH-NORTHEASTWARDS AND CROSS BANGLADESH COAST BETWEEN LONGITUDE 91.0°E AND 92.0°E NEAR CHITTAGONG AROUND 30<sup>TH</sup> MAY 2017 FORENOON.

OBSERVED AND FORECAST TRACK POSITIONS AND INTENSITY OF THE SYSTEM ARE GIVEN BELOW.

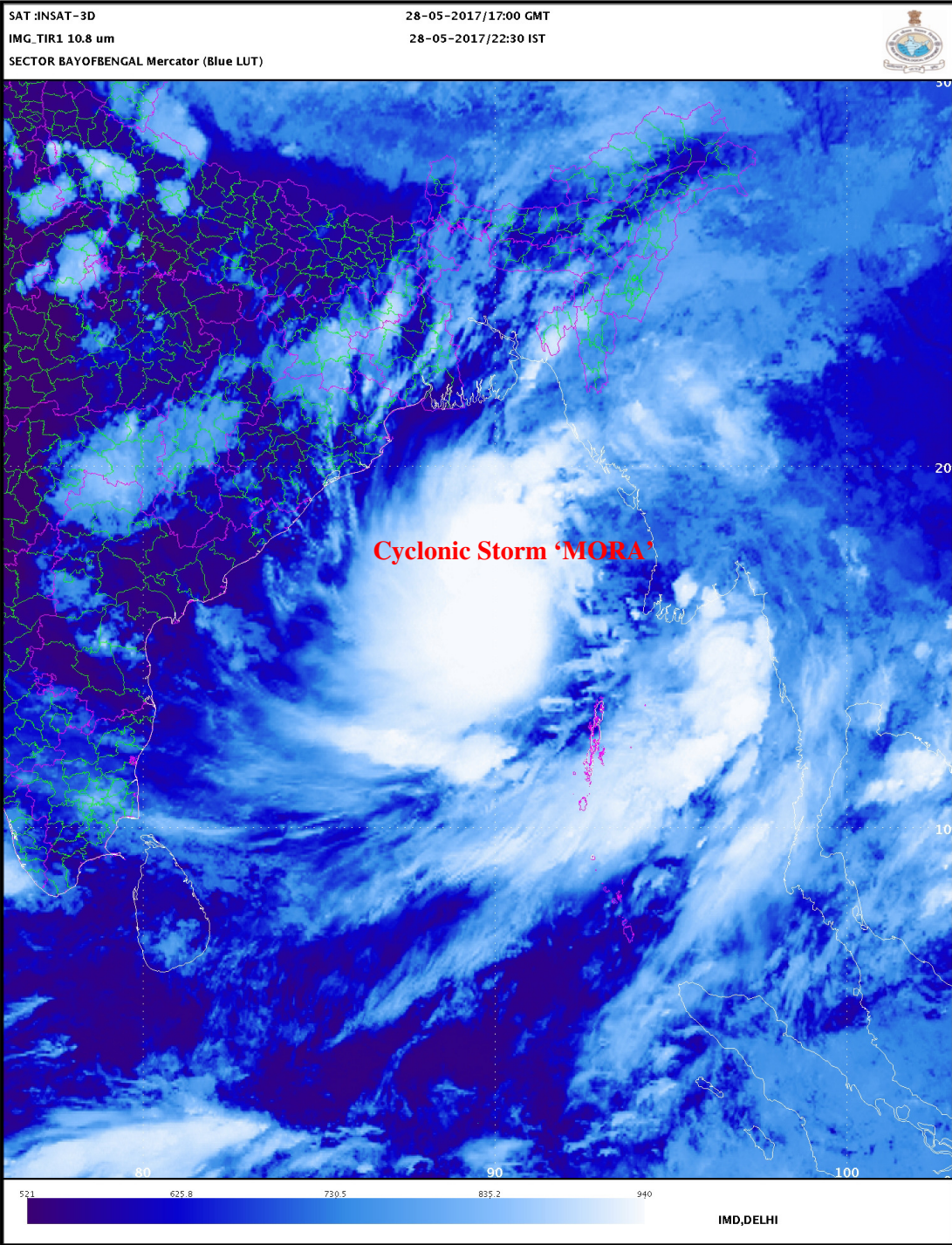
DATE/TIME(UTC)	POSITION (LAT.°N/ LONG.°E)	MAXIMUM SUSTAINED SURFACE WIND SPEED (KMPH)	CATEGORY OF CYCLONIC DISTURBANCE
28.05.2017/1500	16.0/91.0	60-70 GUSTING TO 80	CYCLONIC STORM
28.05.2017/1800	16.3/91.2	65-75 GUSTING TO 85	CYCLONIC STORM
29.05.2017/0000	17.1/91.4	75-85 GUSTING TO 95	CYCLONIC STORM
29.05.2017/0600	18.0/91.5	80-90 GUSTING TO 100	CYCLONIC STORM
29.05.2017/1200	19.1/91.6	90-100 GUSTING TO 110	SEVERE CYCLONIC STORM
30.05.2017/0000	21.4/91.8	95-105 GUSTING TO 115	SEVERE CYCLONIC STORM
30.05.2017/1200	23.4/92.1	60-70 GUSTING TO 80	CYCLONIC STORM
31.05.2017/0000	26.1/93.0	35-45 GUSTING TO 55	DEPRESSION

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ACCORDING TO SATELLITE IMAGERY, INTENSITY OF THE SYSTEM IS T2.5. THE MAXIMUM SURFACE SUSTAINED SURFACE WIND (MSW) IS 35 KNOTS GUSTING TO 45 KNOTS. THE ESTIMATED CENTRAL PRESSURE IS ABOUT 996 HPA. A BUOY NEAR LATITUDE 14° N AND LONGITUDE 86.8 °E REPORTED MEAN SEA LEVEL PRESSURE (MSLP) OF 1001.0 HPA. ANOTHER BUOY NEAR LATITUDE 17.4° N AND LONGITUDE 89.1°E REPORTED MSLP OF 1002.3 HPA.

THE CONVECTION SHOWS CURVED BAND PATTERN. BROKEN LOW/MED CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION OVER BAY OF BENGAL BETWEEN LATITUDE 12.0°N TO 20.0°N LONGITUDE 85.0°E TO 92.0°E. MINIMUM CTT IS AROUND - 93 DEG C. THE SEA SURFACE TEMPERATURE AROUND THE SYSTEM CENTRE IS 30-31°C. THE OCEAN THERMAL ENERGY IS ABOUT 100 KJ/CM<sup>2</sup>. THE VERTICAL WIND SHEAR IS MODERATE AROUND THE SYSTEM CENTRE AND IS AROUND 15-20 KTS, VORTICITY IS AROUND 150 X10<sup>-5</sup> S<sup>-1</sup>, LOWER LEVEL CONVERGENCE IS 10 X10<sup>-5</sup> S<sup>-1</sup> AND UPPER LEVEL DIVERGENCE IS 20 X10<sup>-5</sup> S<sup>-1</sup>. THE UPPER TROPOSPHERIC RIDGE AT 200 HPA LEVEL RUNS ALONG 19.0°N IN ASSOCIATION WITH ANTICYCLONIC CIRCULATION TO THE NORTHEAST OF SYSTEM CENTRE. A TROUGH IN MIDDLE & UPPER TROPOSPHERIC LIES OVER EASTERN INDIA ALONG NEAR LONGITUDE 85.0°E. MADDEN JULIAN OSCILLATION INDEX LIES IN PHASE 2 WITH AMPLITUDE NEAR 1. IT WOULD MOVE TO PHASE 3 WITH INCREASING AMPLITUDE DURING NEXT 3 DAYS. CURRENT ENVIRONMENTAL CONDITIONS ARE SUPPORTING FOR FURTHER INTENSIFICATION OF THE SYSTEM. DYNAMICAL STATISTICAL MODELS ALSO SUGGEST FURTHER INTENSIFICATION OF THE SYSTEM. CONSIDERING THE MOVEMENT, MOST OF THE MODELS ARE UNANIMOUS ABOUT NORTH-NORTHEASTWARD MOVEMENT DURING NEXT 48 HRS.

(SHOBHIT KATIYAR)  
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RSMC, NEW DELHI



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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 CYCLONE ADVISORY**  
**RSMC – TROPICAL CYCLONES, NEW DELHI**

**TROPICAL STORM 'MORA' ADVISORY NO. TWO ISSUED AT 2100 UTC OF 28<sup>TH</sup> MAY  
2017 BASED ON 1800 UTC CHARTS OF 28<sup>TH</sup> MAY 2017**

THE CYCLONIC STORM '**MORA**' OVER EASTCENTRAL BAY OF BENGAL MOVED NORTHEASTWARD DURING PAST 06 HOURS WITH A SPEED OF 14 KMPH AND LAY CENTRED AT 1800 UTC OF TODAY, 28<sup>TH</sup> MAY, 2017 OVER EASTCENTRAL BAY OF BENGAL NEAR LATITUDE 16.3°N AND LONGITUDE 91.2°E, ABOUT 750 KM NEARLY SOUTH-SOUTHEAST OF KOLKATA (42807) AND 660 KM SOUTH-SOUTHWEST OF CHITTAGONG (41978). THE SYSTEM IS LIKELY TO INTENSIFY FURTHER INTO A SEVERE CYCLONIC STORM DURING NEXT 24 HOURS. IT IS VERY LIKELY TO MOVE NORTH-NORTHEASTWARDS AND CROSS BANGLADESH COAST BETWEEN LONGITUDE 91.0°E AND 92.0°E NEAR CHITTAGONG AROUND 30<sup>TH</sup> MAY 2017 FORENOON.

OBSERVED AND FORECAST TRACK POSITIONS AND INTENSITY OF THE SYSTEM ARE GIVEN BELOW.

Date/time(UTC)	Position (lat. °N/ long. °E)	Maximum sustained surface wind speed (kmph)	Category of cyclonic Disturbance
28.05.2017/1800	16.3/91.2	65-75 gusting to 85	Cyclonic Storm
29.05.2017/0000	17.1/91.4	75-85 gusting to 95	Cyclonic Storm
29.05.2017/0600	18.0/91.5	80-90 gusting to 100	Cyclonic Storm
29.05.2017/1200	19.1/91.6	90-100 gusting to 110	Severe Cyclonic Storm
29.05.2017/1800	20.2/91.7	95-105 gusting to 115	Severe Cyclonic Storm
30.05.2017/0600	22.4/91.9	60-70 gusting to 80	Cyclonic Storm
30.05.2017/1800	24.7/92.5	35-45 gusting to 55	Depression

ACCORDING TO SATELLITE IMAGERY, INTENSITY OF THE SYSTEM IS T2.5. THE MAXIMUM SURFACE SUSTAINED SURFACE WIND (MSW) IS 35 KNOTS GUSTING TO 45 KNOTS. THE ESTIMATED CENTRAL PRESSURE IS ABOUT 996 HPA. A BUOY NEAR LATITUDE 17.4° N AND LONGITUDE 89.1 °E REPORTED MEAN SEA LEVEL PRESSURE (MSLP) OF 1002.5 HPA. ANOTHER BUOY NEAR LATITUDE 16.4° N AND LONGITUDE 88.0°E REPORTED MSLP OF 1000.4 HPA.

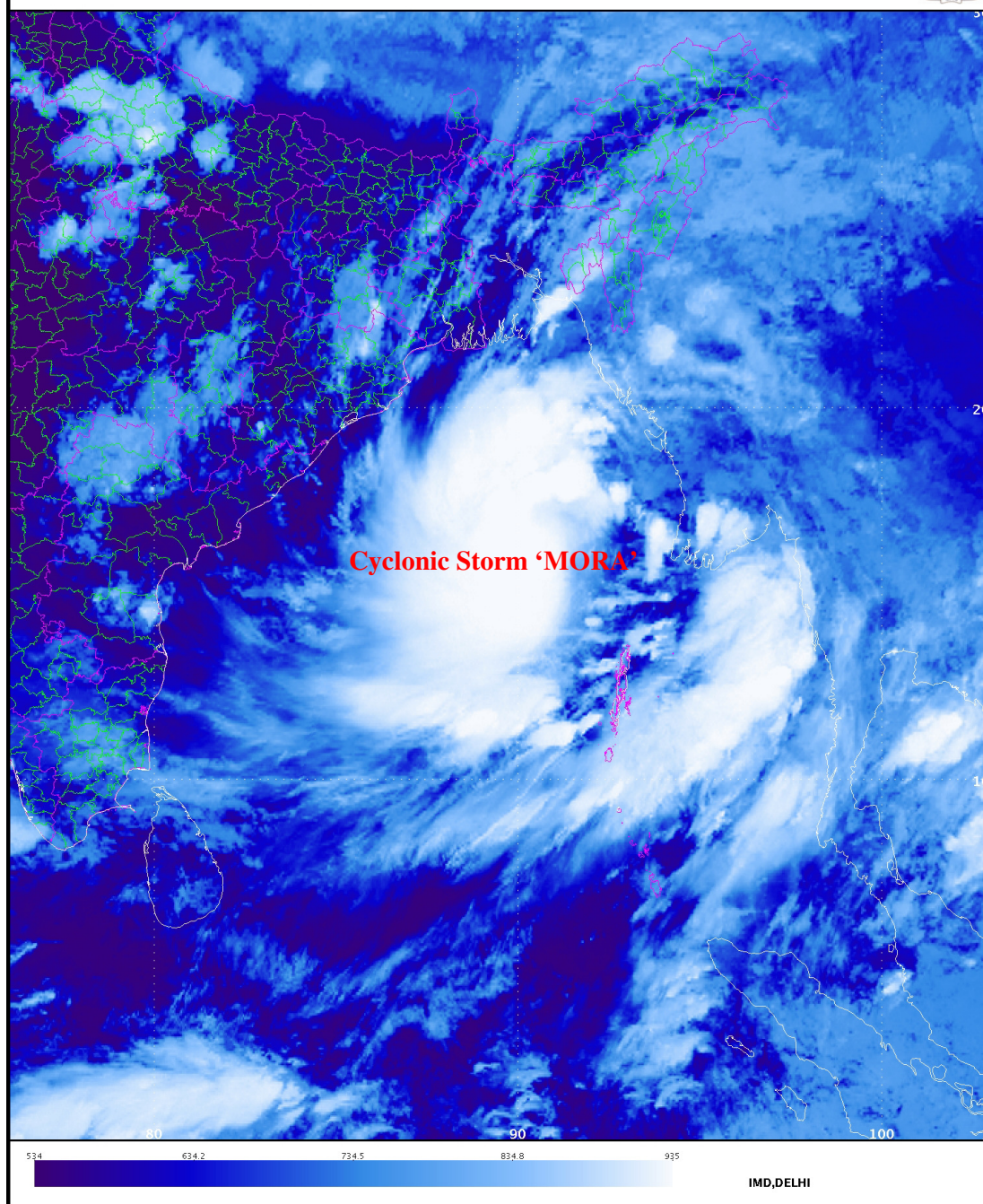
**Contact: Phone: (91) 11-24652484 FAX: (91) 11-24623220 e-mail :cwdhq2008@gmail.com**

THE CONVECTION SHOWS CURVED BAND PATTERN. BROKEN LOW/MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION OVER BAY OF BENGAL BETWEEN LATITUDE 12.0°N TO 20.0°N LONGITUDE 85.0°E TO 92.0°E. MINIMUM CTT IS AROUND - 93 DEG C. THE SEA SURFACE TEMPERATURE AROUND THE SYSTEM CENTRE IS 30-31°C. THE OCEAN THERMAL ENERGY IS ABOUT 100 KJ/CM<sup>2</sup>. THE VERTICAL WIND SHEAR IS MODERATE AROUND THE SYSTEM CENTRE AND IS AROUND 15-20 KTS, VORTICITY IS AROUND 150 X10<sup>-5</sup> S<sup>-1</sup>, LOWER LEVEL CONVERGENCE IS 10 X10<sup>-5</sup> S<sup>-1</sup> AND UPPER LEVEL DIVERGENCE IS 20 X10<sup>-5</sup> S<sup>-1</sup>. THE UPPER TROPOSPHERIC RIDGE AT 200 HPA LEVEL RUNS ALONG 19.0°N IN ASSOCIATION WITH ANTICYCLONIC CIRCULATION TO THE NORTHEAST OF SYSTEM CENTRE. A TROUGH IN MIDDLE & UPPER TROPOSPHERIC LIES OVER EASTERN INDIA ALONG NEAR LONGITUDE 85.0°E. MADDEN JULIAN OSCILLATION INDEX LIES IN PHASE 2 WITH AMPLITUDE NEAR 1. IT WOULD MOVE TO PHASE 3 WITH INCREASING AMPLITUDE DURING NEXT 3 DAYS. CURRENT ENVIRONMENTAL CONDITIONS ARE SUPPORTING FOR FURTHER INTENSIFICATION OF THE SYSTEM. DYNAMICAL STATISTICAL MODELS ALSO SUGGEST FURTHER INTENSIFICATION OF THE SYSTEM. CONSIDERING THE MOVEMENT, MOST OF THE MODELS ARE UNANIMOUS ABOUT NORTH-NORTHEASTWARD MOVEMENT DURING NEXT 48 HRS.

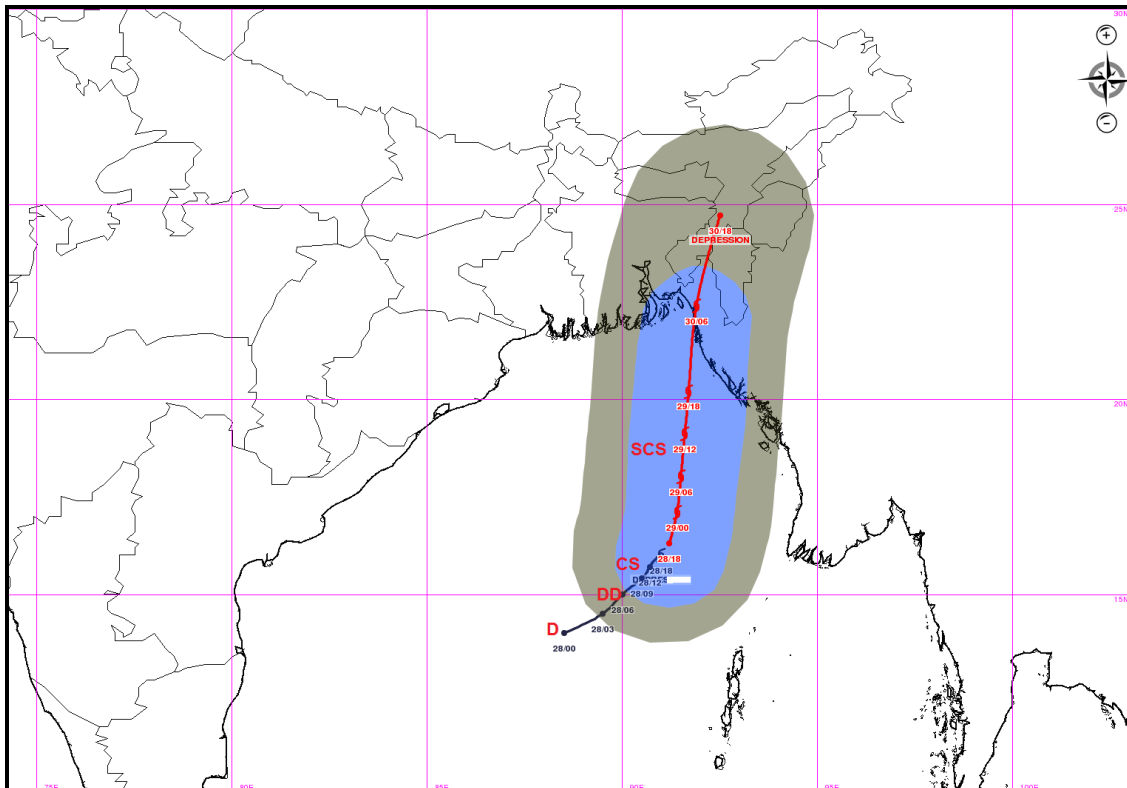
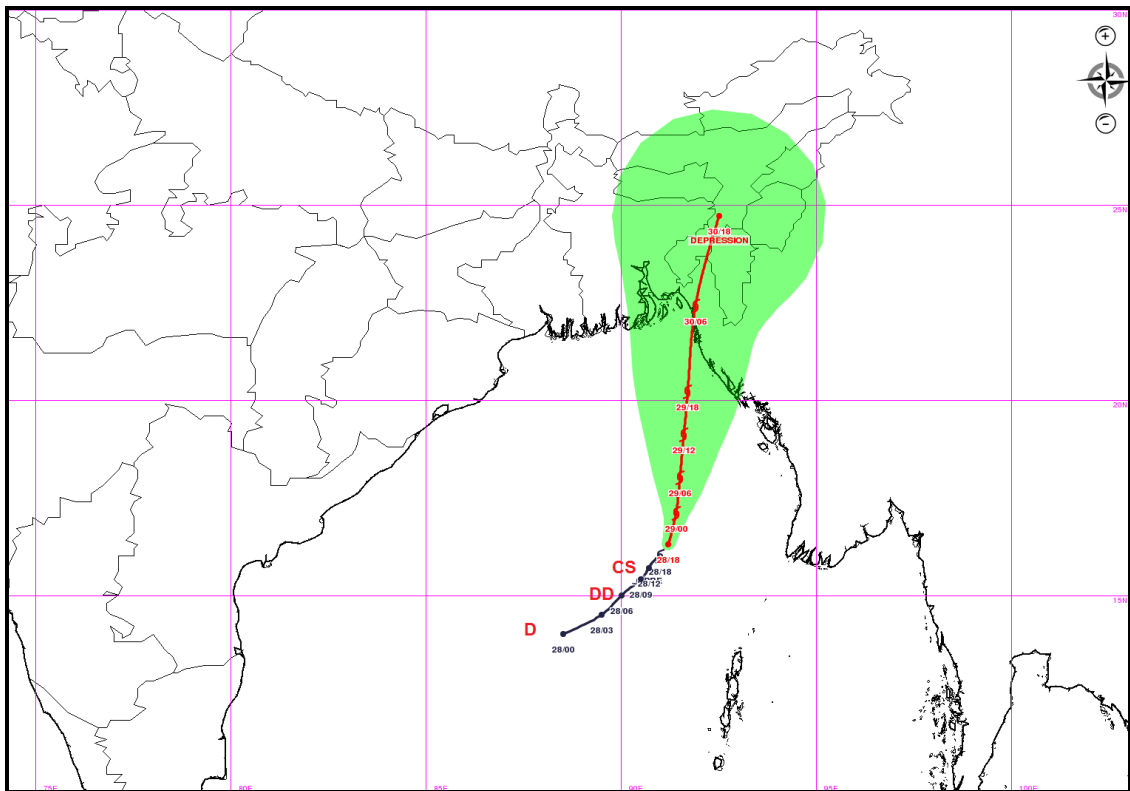
(SHOBHIT KATIYAR)  
SCIENTIST 'B'  
RSMC, NEW DELHI

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SECTOR BAYOFBENGAL Mercator (Blue LUT)

28-05-2017/18:30 GMT  
29-05-2017/00:00 IST



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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 CYCLONE ADVISORY**  
**RSMC – TROPICAL CYCLONES, NEW DELHI**

**TROPICAL STORM ‘MORA’ ADVISORY NO. THREE ISSUED AT 2330 UTC OF 28<sup>TH</sup>  
MAY 2017 BASED ON 2100 UTC CHARTS OF 28<sup>TH</sup> MAY 2017**

THE CYCLONIC STORM ‘MORA’ OVER EASTCENTRAL BAY OF BENGAL MOVED NORTH-NORTHEASTWARD DURING PAST 06 HOURS WITH A SPEED OF 12 KMPH AND LAY CENTRED AT 2100 UTC OF TODAY, 28TH MAY, 2017 OVER EASTCENTRAL BAY OF BENGAL NEAR LATITUDE 16.6°N AND LONGITUDE 91.3°E, ABOUT 720 KM NEARLY SOUTH-SOUTHEAST OF KOLKATA (42807) AND 630 KM SOUTH-SOUTHWEST OF CHITTAGONG (41978). THE SYSTEM IS LIKELY TO INTENSIFY FURTHER INTO A SEVERE CYCLONIC STORM DURING NEXT 24 HOURS. IT IS VERY LIKELY TO MOVE NORTH-NORTHEASTWARDS AND CROSS BANGLADESH COAST BETWEEN LONGITUDE 91.0°E AND 92.0°E NEAR CHITTAGONG AROUND 30TH MAY 2017 FORENOON.

OBSERVED AND FORECAST TRACK POSITIONS AND INTENSITY OF THE SYSTEM ARE GIVEN BELOW.

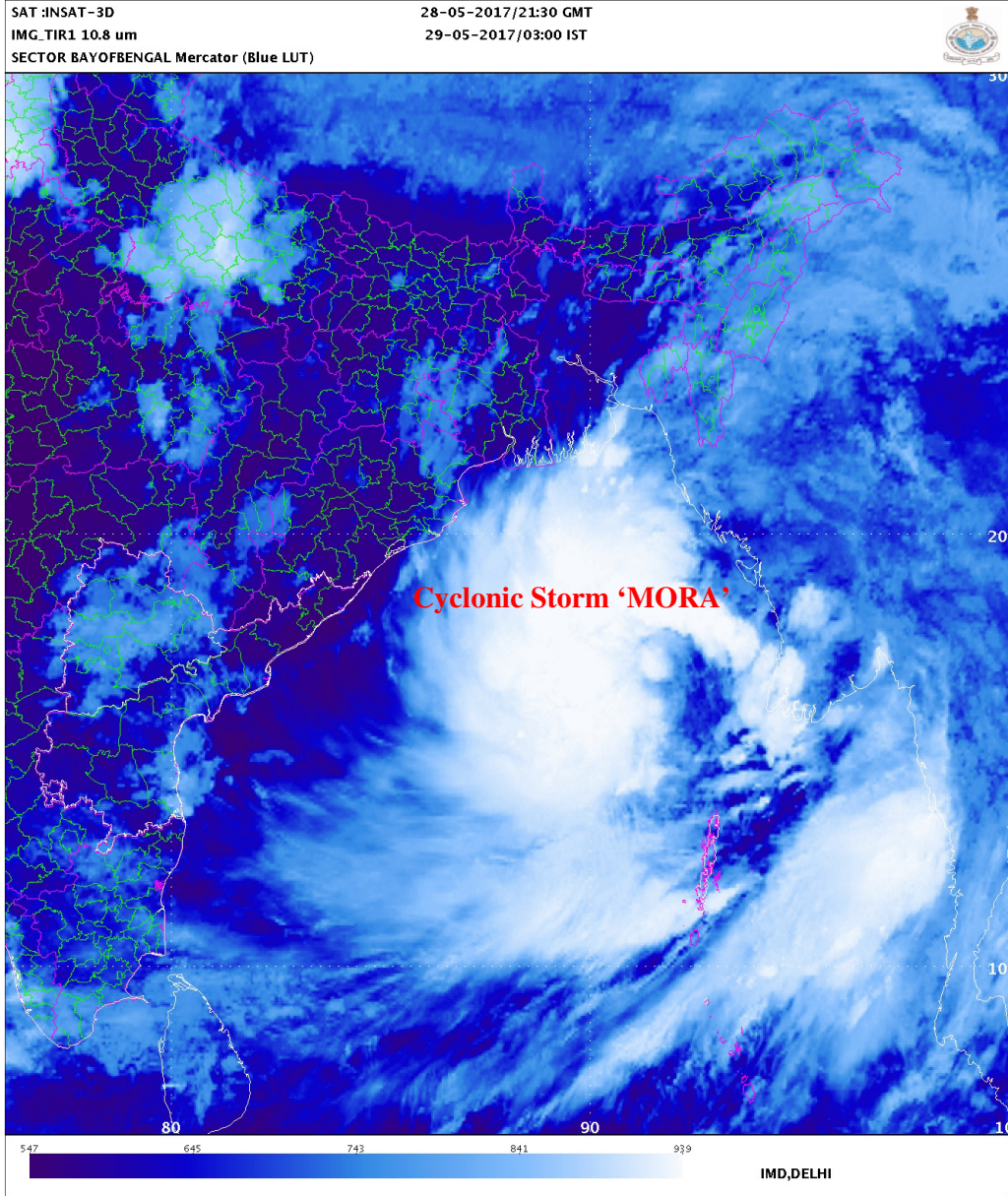
Date/time(UTC)	Position (lat. °N/ long. °E)	Maximum sustained surface wind speed (kmph)	Category of cyclonic Disturbance
28.05.2017/2100	16.6/91.3	65-75 gusting to 85	Cyclonic Storm
29.05.2017/0000	17.1/91.4	75-85 gusting to 95	Cyclonic Storm
29.05.2017/0600	18.0/91.5	80-90 gusting to 100	Cyclonic Storm
29.05.2017/1200	19.1/91.6	90-100 gusting to 110	Severe Cyclonic Storm
29.05.2017/1800	20.2/91.7	95-105 gusting to 115	Severe Cyclonic Storm
30.05.2017/0600	22.4/91.9	60-70 gusting to 80	Cyclonic Storm
30.05.2017/1800	24.7/92.5	35-45 gusting to 55	Depression

ACCORDING TO SATELLITE IMAGERY, INTENSITY OF THE SYSTEM IS T2.5. THE MAXIMUM SURFACE SUSTAINED SURFACE WIND (MSW) IS 35 KNOTS GUSTING TO 45 KNOTS. THE ESTIMATED CENTRAL PRESSURE IS  
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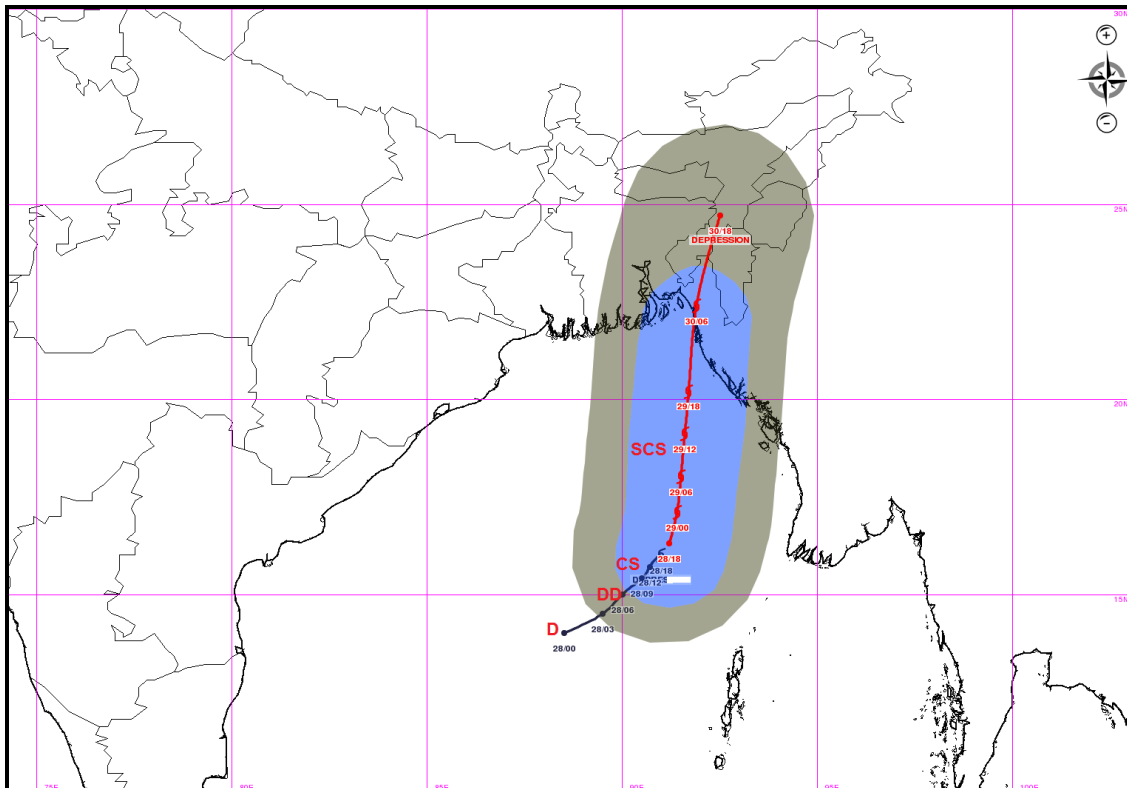
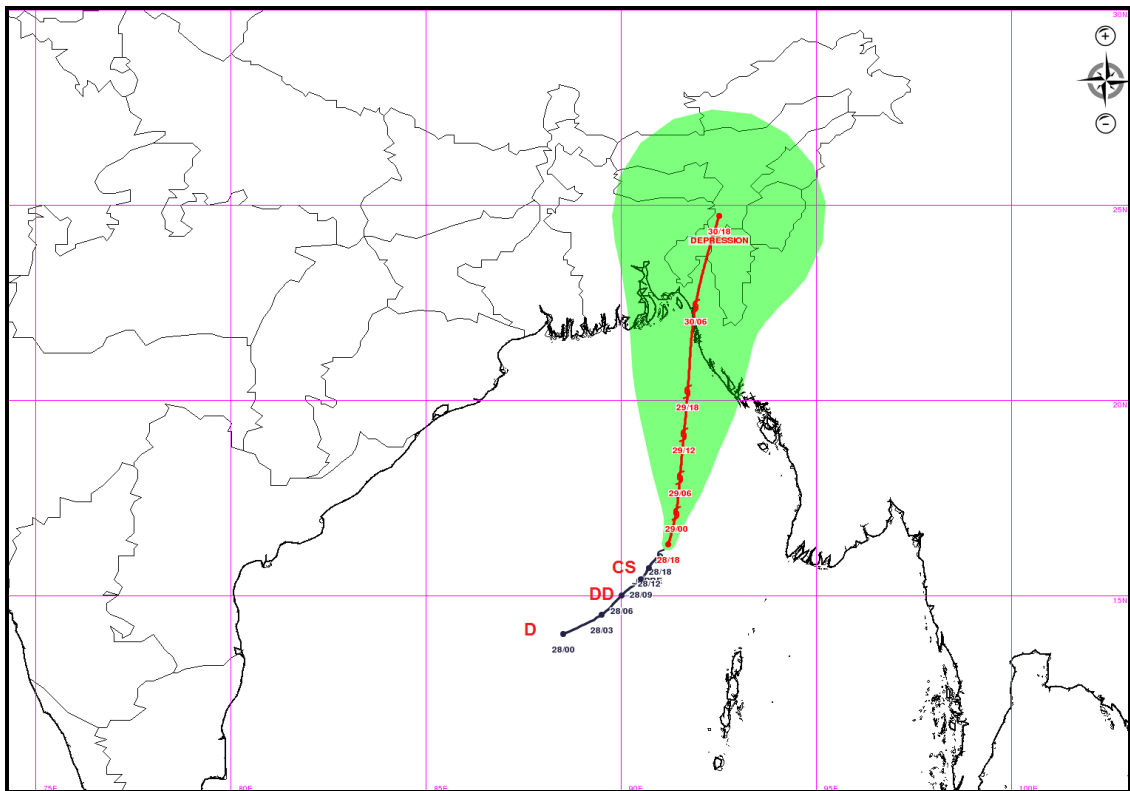
ABOUT 996 HPA. A BUOY NEAR LATITUDE 17.4° N AND LONGITUDE 89.1 °E REPORTED MEAN SEA LEVEL PRESSURE (MSLP) OF 1004.6 HPA. ANOTHER BUOY NEAR LATITUDE 16.4° N AND LONGITUDE 88.0°E REPORTED MSLP OF 1002.1 HPA.

THE CONVECTION SHOWS CURVED BAND PATTERN. BROKEN LOW/MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION OVER BAY OF BENGAL BETWEEN LATITUDE 12.0°N TO 20.0°N LONGITUDE 85.0°E TO 92.5°E. MINIMUM CTT IS AROUND – 93.0°C. THE SEA SURFACE TEMPERATURE AROUND THE SYSTEM CENTRE IS 30-31°C. THE OCEAN THERMAL ENERGY IS ABOUT 100 KJ/CM<sup>2</sup>. THE VERTICAL WIND SHEAR IS MODERATE AROUND THE SYSTEM CENTRE AND IS AROUND 15-20 KTS, VORTICITY IS AROUND 150 X10<sup>-5</sup> S<sup>-1</sup>, LOWER LEVEL CONVERGENCE IS 10 X10<sup>-5</sup> S<sup>-1</sup> AND UPPER LEVEL DIVERGENCE IS 20 X10<sup>-5</sup> S<sup>-1</sup>. THE UPPER TROPOSPHERIC RIDGE AT 200 HPA LEVEL RUNS ALONG 19.0°N IN ASSOCIATION WITH ANTICYCLONIC CIRCULATION TO THE NORTHEAST OF SYSTEM CENTRE. A TROUGH IN MIDDLE & UPPER TROPOSPHERIC LIES OVER EASTERN INDIA ALONG NEAR LONGITUDE 85.0°E. MADDEN JULIAN OSCILLATION INDEX LIES IN PHASE 2 WITH AMPLITUDE NEAR 1. IT WOULD MOVE TO PHASE 3 WITH INCREASING AMPLITUDE DURING NEXT 3 DAYS. CURRENT ENVIRONMENTAL CONDITIONS ARE SUPPORTING FOR FURTHER INTENSIFICATION OF THE SYSTEM. DYNAMICAL STATISTICAL MODELS ALSO SUGGEST FURTHER INTENSIFICATION OF THE SYSTEM. CONSIDERING THE MOVEMENT, MOST OF THE MODELS ARE UNANIMOUS ABOUT NORTH-NORTHEASTWARD MOVEMENT DURING NEXT 48 HRS.

(SHOBHIT KATIYAR)  
SCIENTIST 'B'  
RSMC, NEW DELHI



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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 CYCLONE ADVISORY**  
**RSMC – TROPICAL CYCLONES, NEW DELHI**

**TROPICAL STORM 'MORA' ADVISORY NO. FOUR ISSUED AT 0300 UTC OF 29<sup>TH</sup> MAY  
2017 BASED ON 0000 UTC CHARTS OF 29<sup>TH</sup> MAY 2017**

THE CYCLONIC STORM 'MORA' OVER EASTCENTRAL BAY OF BENGAL MOVED NORTH-NORTHEASTWARD DURING PAST 06 HOURS WITH A SPEED OF 13 KMPH AND LAY CENTRED AT 0000 UTC OF TODAY, 29<sup>TH</sup> MAY, 2017 OVER EASTCENTRAL BAY OF BENGAL NEAR LATITUDE 17.0°N AND LONGITUDE 91.3°E, ABOUT 680 KM SOUTH-SOUTHEAST OF KOLKATA AND 580 KM SOUTH-SOUTHWEST OF CHITTAGONG. THE SYSTEM IS LIKELY TO INTENSIFY FURTHER INTO A SEVERE CYCLONIC STORM DURING NEXT 12 HOURS. IT IS VERY LIKELY TO MOVE NORTH-NORTHEASTWARDS AND CROSS BANGLADESH COAST BETWEEN LONGITUDE 91.0°E AND 92.0°E NEAR CHITTAGONG AROUND 30<sup>TH</sup> MAY 2017 FORENOON.

OBSERVED AND FORECAST TRACK POSITIONS AND INTENSITY OF THE SYSTEM ARE GIVEN BELOW:

DATE/TIME(UTC)	POSITION (LAT. °N/ LONG. °E)	MAXIMUM SUSTAINED SURFACE WIND SPEED (KMPH)	CATEGORY OF CYCLONIC DISTURBANCE
29.05.2017/0000	17.0/91.3	75-85 GUSTING TO 95	CYCLONIC STORM
29.05.2017/0600	17.9/91.3	80-90 GUSTING TO 100	CYCLONIC STORM
29.05.2017/1200	18.9/91.4	90-100 GUSTING TO 110	SEVERE CYCLONIC STORM
29.05.2017/1800	20.1/91.4	100-110 GUSTING TO 120	SEVERE CYCLONIC STORM
30.05.2017/0000	21.3/91.5	110-120 GUSTING TO 130	SEVERE CYCLONIC STORM
30.05.2017/1200	24.2/91.8	55-65 GUSTING TO 75	DEEP DEPRESSION
31.05.2017/0000	26.5/92.5	35-45 GUSTING TO 55	DEPRESSION

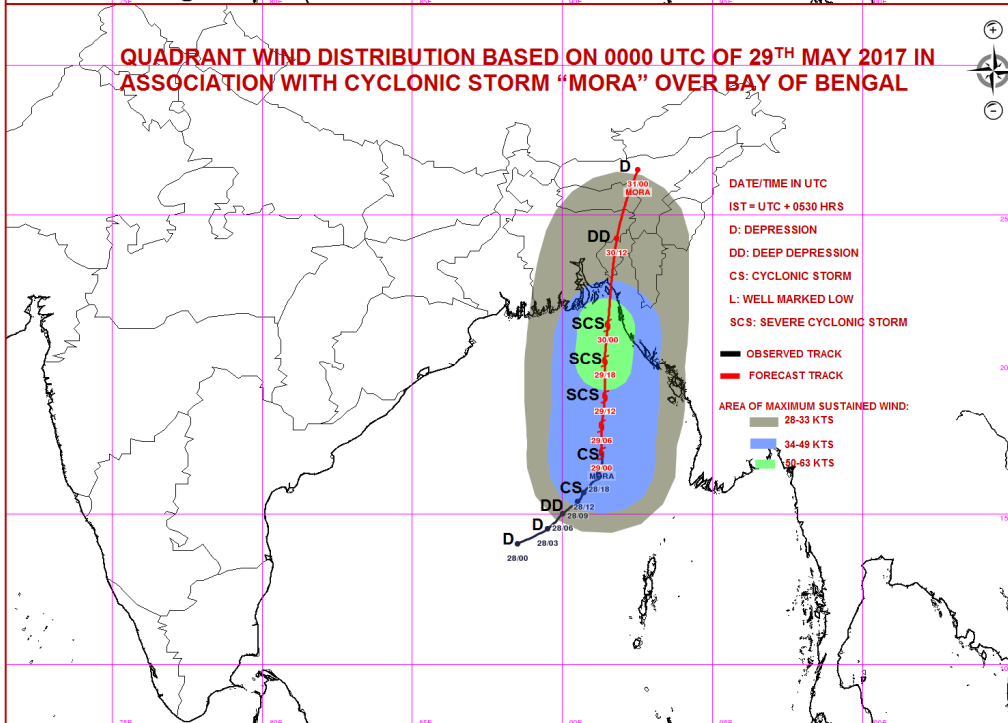
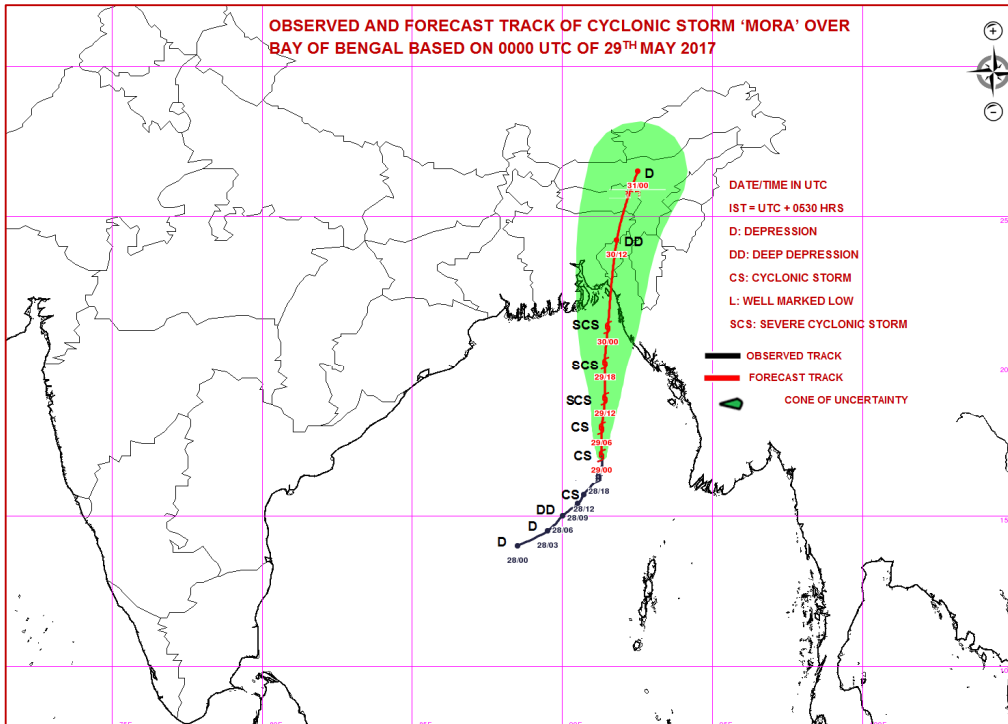
ACCORDING TO SATELLITE IMAGERY, INTENSITY OF THE SYSTEM IS T3.0. THE MAXIMUM SURFACE SUSTAINED SURFACE WIND (MSW) IS 45 KNOTS GUSTING TO 55 KNOTS. THE ESTIMATED CENTRAL PRESSURE IS ABOUT 994 HPA. A BUOY NEAR LATITUDE 17.5° N AND LONGITUDE 89.2 °E REPORTED MEAN SEA LEVEL PRESSURE (MSLP) OF 1004.4 HPA. ANOTHER

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BUOY NEAR LATITUDE 16.4° N AND LONGITUDE 88.0°E REPORTED MSLP OF 1002.3 HPA.

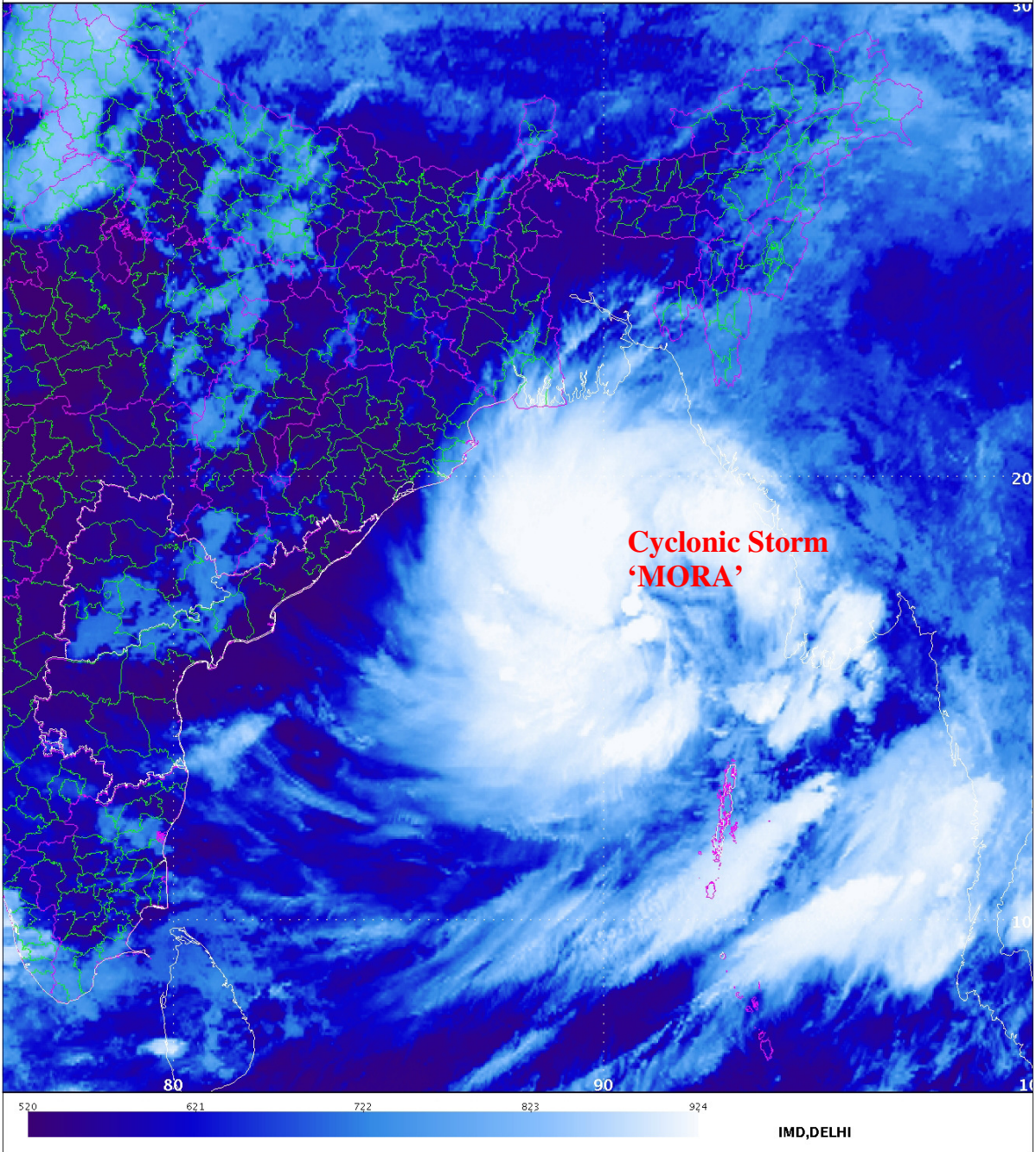
THE CONVECTION HAS FURTHER ORGANISED IN PAST 12 HOURS AND SHOWS CURVED BAND PATTERN. BROKEN LOW/MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION OVER BAY OF BENGAL BETWEEN LATITUDE 12.0°N TO 20.0°N LONGITUDE 85.0°E TO 92.5°E. MINIMUM CTT IS AROUND - 90.0°C. THE SEA SURFACE TEMPERATURE AROUND THE SYSTEM CENTRE IS 30-31°C. THE OCEAN THERMAL ENERGY IS ABOUT 100 KJ/CM<sup>2</sup>. THE VERTICAL WIND SHEAR IS MODERATE AROUND THE SYSTEM CENTRE AND IS AROUND 15-20 KTS, VORTICITY IS AROUND 150 X10<sup>-5</sup> S<sup>-1</sup>. LOWER LEVEL CONVERGENCE HAS INCREASED IN PAST 12 HOURS AND IS OF ORDER OF 40-50 X10<sup>-5</sup> S<sup>-1</sup> AND UPPER LEVEL DIVERGENCE HAS ALSO INCREASED IN PAST 12 HOURS AND IS ORDER OF 40-50 X10<sup>-5</sup> S<sup>-1</sup> AROUND THE SYSTEM CENTRE. THE UPPER TROPOSPHERIC RIDGE AT 200 HPA LEVEL RUNS ALONG 17.0°N IN ASSOCIATION WITH ANTICYCLONIC CIRCULATION TO THE NORTHEAST OF SYSTEM CENTRE. MADDEN JULIAN OSCILLATION INDEX LIES IN PHASE 2 WITH AMPLITUDE MORE THAN 1. IT WOULD MOVE TO PHASE 3 WITH AMPLITUDE MORE THAN 1 DURING NEXT 3 DAYS. CURRENT ENVIRONMENTAL CONDITIONS ARE SUPPORTING FOR FURTHER INTENSIFICATION AND NORTH-NORTHEASTWARDS MOVEMENT OF THE SYSTEM. DYNAMICAL STATISTICAL MODELS ALSO SUGGEST FURTHER INTENSIFICATION OF THE SYSTEM. CONSIDERING THE MOVEMENT, MOST OF THE MODELS ARE UNANIMOUS ABOUT NORTH-NORTHEASTWARD MOVEMENT DURING NEXT 48 HRS.

(NARESH KUMAR)  
SCIENTIST 'D'  
RSMC, NEW DELHI



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SECTOR BAYOFBENGAL Mercator (Blue LUT)

29-05-2017/01:30 GMT  
29-05-2017/07:00 IST



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 CYCLONE ADVISORY**  
**RSMC – TROPICAL CYCLONES, NEW DELHI**

**TROPICAL STORM 'MORA' ADVISORY NO. FIVE ISSUED AT 0600 UTC OF 29<sup>TH</sup> MAY  
2017 BASED ON 0300 UTC CHARTS OF 29<sup>TH</sup> MAY 2017**

THE CYCLONIC STORM '**MORA**' OVER EASTCENTRAL BAY OF BENGAL MOVED NORTHWARD DURING PAST 06 HOURS WITH A SPEED OF 11 KMPH AND LAY CENTRED AT 0300 UTC OF TODAY, 29<sup>TH</sup> MAY, 2017 OVER EASTCENTRAL BAY OF BENGAL NEAR LATITUDE 17.3°N AND LONGITUDE 91.3°E, ABOUT 660 KM SOUTH-SOUTHEAST OF KOLKATA(42807) AND 550 KM SOUTH-SOUTHWEST OF CHITTAGONG(41978). THE SYSTEM IS LIKELY TO INTENSIFY FURTHER INTO A SEVERE CYCLONIC STORM DURING NEXT 12 HOURS. IT IS VERY LIKELY TO MOVE NORTH-NORTHEASTWARDS AND CROSS BANGLADESH COAST BETWEEN LONGITUDE 91.0°E AND 92.0°E NEAR CHITTAGONG AROUND 30<sup>TH</sup> MAY 2017 FORENOON.

OBSERVED AND FORECAST TRACK POSITIONS AND INTENSITY OF THE SYSTEM ARE GIVEN BELOW:

DATE/TIME(UTC)	POSITION (LAT. °N/ LONG. °E)	MAXIMUM SUSTAINED SURFACE WIND SPEED (KMPH)	CATEGORY OF CYCLONIC DISTURBANCE
29.05.2017/0300	17.3/91.3	75-85 GUSTING TO 95	CYCLONIC STORM
29.05.2017/0600	17.9/91.3	80-90 GUSTING TO 100	CYCLONIC STORM
29.05.2017/1200	18.9/91.4	90-100 GUSTING TO 110	SEVERE CYCLONIC STORM
29.05.2017/1800	20.1/91.4	100-110 GUSTING TO 120	SEVERE CYCLONIC STORM
30.05.2017/0000	21.3/91.5	110-120 GUSTING TO 130	SEVERE CYCLONIC STORM
30.05.2017/1200	24.2/91.8	55-65 GUSTING TO 75	DEEP DEPRESSION
31.05.2017/0000	26.5/92.5	35-45 GUSTING TO 55	DEPRESSION

**STORM SURGE GUIDANCE:** THE STORM SURGE OF HEIGHT OF ABOUT 1 TO 1.5 METER ABOVE ASTRONOMICAL TIDES IS LIKELY TO INUNDATE OVER LOW LYING AREAS OF BANGLADESH COAST BETWEEN SITAKUND AND UTTAR JALDI AT THE TIME OF LANDFALL.

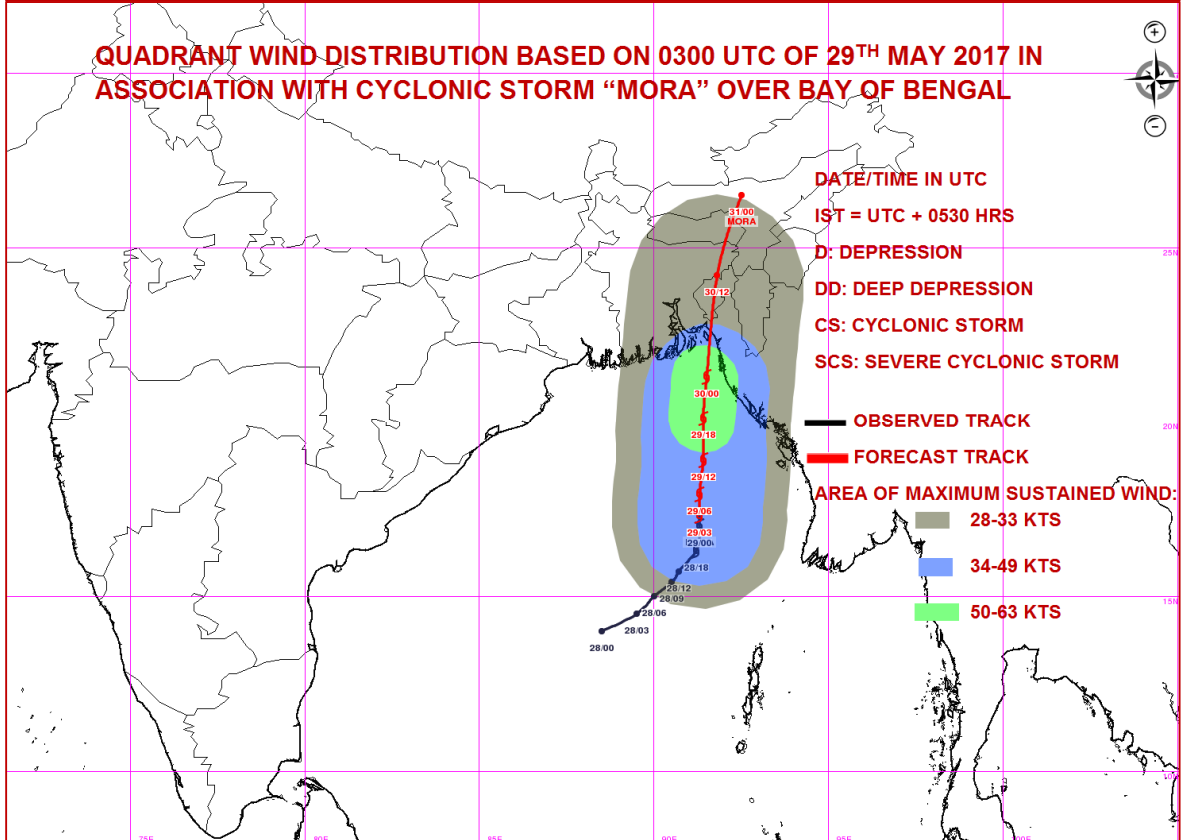
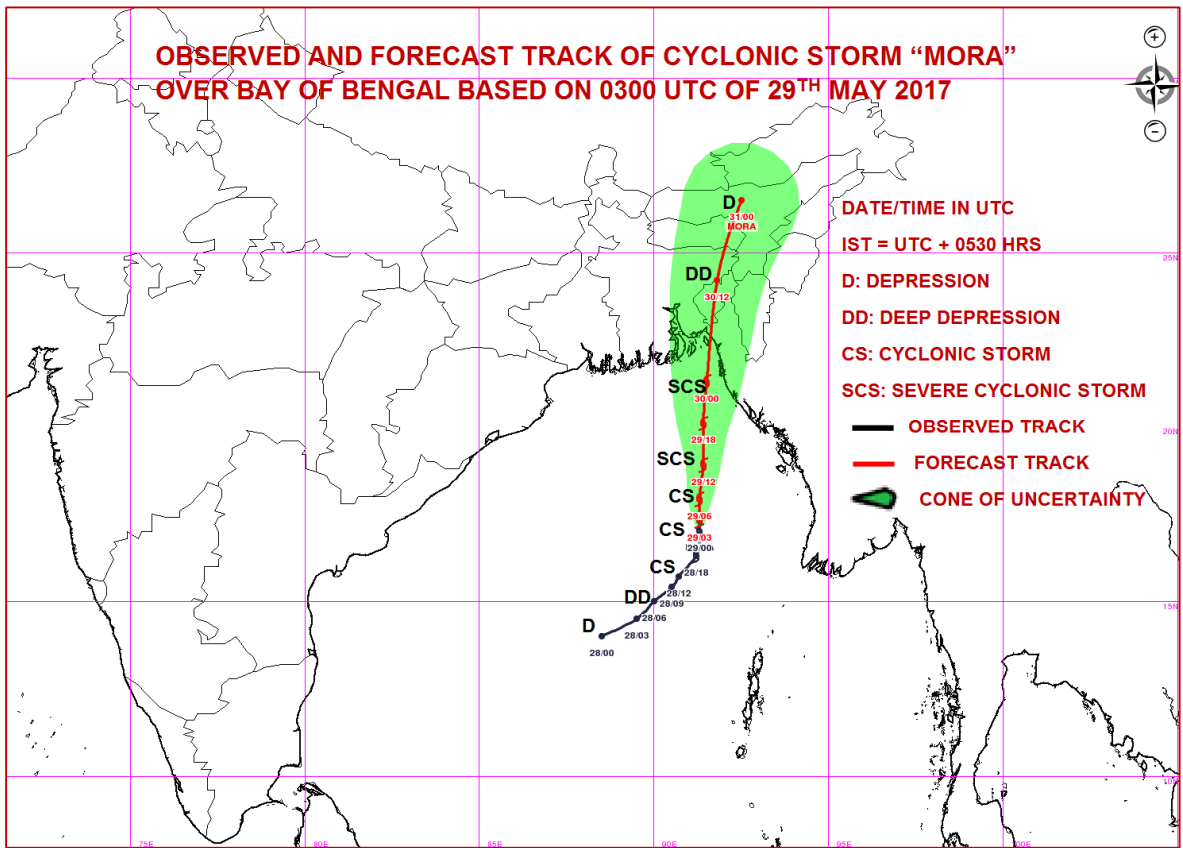
**Contact: Phone: (91) 11-24652484 FAX: (91) 11-24623220 e-mail :cwdhq2008@gmail.com**

ACCORDING TO SATELLITE IMAGERY, INTENSITY OF THE SYSTEM IS T3.0. THE MAXIMUM SURFACE SUSTAINED SURFACE WIND (MSW) IS 45 KNOTS GUSTING TO 55 KNOTS. THE ESTIMATED CENTRAL PRESSURE IS ABOUT 992 HPA. A BUOY NEAR LATITUDE 17.6° N AND LONGITUDE 89.2°E REPORTED MEAN SEA LEVEL PRESSURE (MSLP) OF 1002.9 HPA AND MSW 340/29 KNOTS. ANOTHER BUOY NEAR LATITUDE 16.5° N AND LONGITUDE 88.0°E REPORTED MSLP OF 1000.6 HPA AND MSW 340/16 KNOTS. THE MULTI-SATELLITE DERIVED WINDS SUGGEST HIGHER WINDS OF EASTERN SECTOR.

THE CONVECTION HAS FURTHER ORGANISED IN PAST 12 HOURS AND SHOWS CURVED BAND PATTERN. BROKEN LOW/MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION OVER BAY OF BENGAL BETWEEN LATITUDE 13.0°N TO 22.0°N LONGITUDE 86.0°E TO 94.5°E. MINIMUM CTT IS AROUND - 90.0°C. THE SEA SURFACE TEMPERATURE AROUND THE SYSTEM CENTRE IS 30-31°C. THE OCEAN THERMAL ENERGY IS ABOUT 100 KJ/CM<sup>2</sup>. THE VERTICAL WIND SHEAR IS MODERATE TO HIGH AROUND THE SYSTEM CENTRE AND IS AROUND 15-25 KTS, VORTICITY IS AROUND 200 X10<sup>-5</sup> S<sup>-1</sup>. LOWER LEVEL CONVERGENCE HAS INCREASED IN PAST 12 HOURS AND IS OF ORDER OF 50 X10<sup>-5</sup> S<sup>-1</sup>. UPPER LEVEL DIVERGENCE HAS ALSO INCREASED IN PAST 12 HOURS AND IS OF ORDER OF 50 X10<sup>-5</sup> S<sup>-1</sup> AROUND THE SYSTEM CENTRE. THE UPPER TROPOSPHERIC RIDGE AT 200 HPA LEVEL RUNS ALONG 17.0°N IN ASSOCIATION WITH ANTI-CYCLONIC CIRCULATION TO THE NORTHEAST OF SYSTEM CENTRE. THE SYSTEM IS MOVING NORTH-NORTHEASTWARDS AS IT LAYS WESTERN PERIPHERY OF THIS ANTI-CYCLONIC CIRCULATION. IT WOULD CONTINUE TO MOVE SO FOR NEXT 24-36 HOURS AND THEREAFTER EASTERLY COMPONENT OF THE MOVEMENT WILL INCREASE GRADUALLY UNDER THE INFLUENCE OF THE TROUGH IN WESTERLY OVER EASTERN INDIA. CURRENTLY SYSTEM IS BEING STARRED BY THE DEEP LAYER WIND OF 200-850 HPA. THE MEAN DEEP LAYER WIND BETWEEN 200-850 HPA IS 170DEGREE/7 KNOTS. THE ANIMATION OF TOTAL PERCEPTIBLE WATER IMAGERY INDICATE CONTINUOUS WARM AND MOIST AIR ADVECTION FROM SOUTHEAST SECTOR. THE LATEST MICROWAVE IMAGERY FROM SSMIS AT 0001 UTC OF 29<sup>TH</sup> INDICATE DEEP CONVECTIVE BANDING WRAPPING TOWARDS THE CENTRE FROM NORTHEAST.

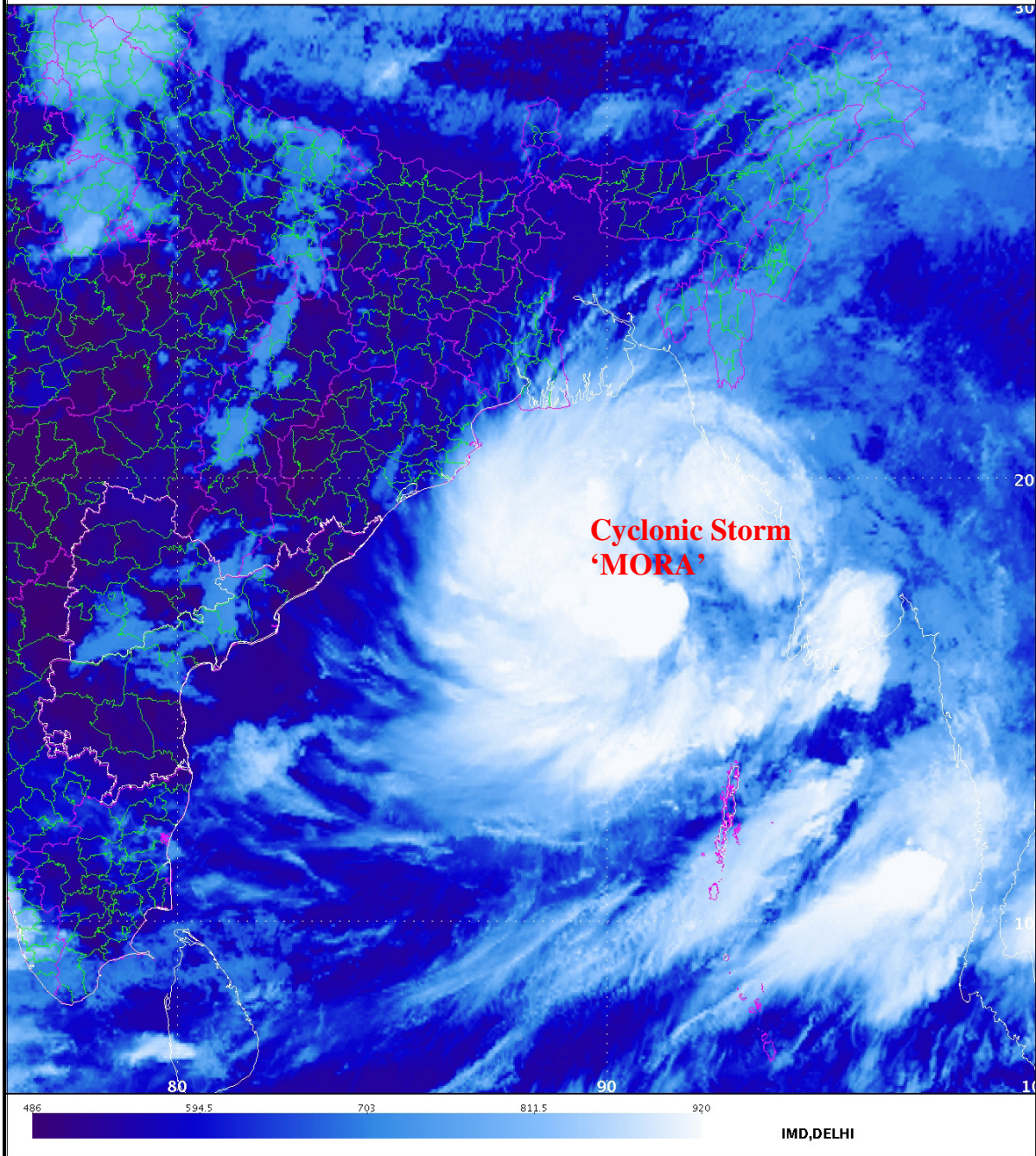
MADDEN JULIAN OSCILLATION INDEX LIES IN PHASE 3 WITH AMPLITUDE MORE THAN 1. IT WOULD CONTINUE IN PHASE 3 WITH AMPLITUDE MORE THAN 1 DURING NEXT 3 DAYS. CURRENT ENVIRONMENTAL CONDITIONS ARE SUPPORTING FOR FURTHER INTENSIFICATION AND NORTH-NORTHEASTWARDS MOVEMENT OF THE SYSTEM. DYNAMICAL STATISTICAL MODELS ALSO SUGGEST FURTHER INTENSIFICATION OF THE SYSTEM. CONSIDERING THE MOVEMENT, MOST OF THE MODELS ARE UNANIMOUS ABOUT NORTH-NORTHEASTWARD MOVEMENT DURING NEXT 48 HRS.

(NARESH KUMAR)  
SCIENTIST 'D'  
RSMC, NEW DELHI



SAT :INSAT-3D  
IMG\_TIR1 10.8 um  
SECTOR BAYOFBENGAL Mercator (Blue LUT)

29-05-2017/03:00 GMT  
29-05-2017/08:30 IST



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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 CYCLONE ADVISORY**  
**RSMC – TROPICAL CYCLONES, NEW DELHI**

**TROPICAL STORM ‘MORA’ ADVISORY NO. SIX ISSUED AT 0900 UTC OF 29<sup>TH</sup> MAY  
2017 BASED ON 0600 UTC CHARTS OF 29<sup>TH</sup> MAY 2017**

THE CYCLONIC STORM ‘MORA’ OVER EASTCENTRAL BAY OF BENGAL MOVED NORTH-NORTHEASTWARD DURING PAST 06 HOURS WITH A SPEED OF 15 KMPH AND LAY CENTRED AT 0600 UTC OF TODAY, 29<sup>TH</sup> MAY, 2017 OVER EASTCENTRAL BAY OF BENGAL NEAR LATITUDE 17.8°N AND LONGITUDE 91.4°E, ABOUT 610 KM SOUTH-SOUTHEAST OF KOLKATA(42807) AND 500 KM SOUTH-SOUTHWEST OF CHITTAGONG(41978). THE SYSTEM IS LIKELY TO INTENSIFY FURTHER INTO A SEVERE CYCLONIC STORM DURING NEXT 12 HOURS. IT IS VERY LIKELY TO MOVE NORTH-NORTHEASTWARDS AND CROSS BANGLADESH COAST BETWEEN LONGITUDE 91.0°E AND 92.0°E NEAR CHITTAGONG AROUND 30<sup>TH</sup> MAY 2017 FORENOON.

OBSERVED AND FORECAST TRACK POSITIONS AND INTENSITY OF THE SYSTEM ARE GIVEN BELOW:

DATE/TIME(UTC)	POSITION (LAT. °N/ LONG. °E)	MAXIMUM SUSTAINED SURFACE WIND SPEED (KMPH)	CATEGORY OF CYCLONIC DISTURBANCE
29.05.2017/0600	17.8/91.4	80-90 GUSTING TO 100	CYCLONIC STORM
29.05.2017/1200	18.9/91.5	90-100 GUSTING TO 110	SEVERE CYCLONIC STORM
29.05.2017/1800	20.1/91.5	100-110 GUSTING TO 120	SEVERE CYCLONIC STORM
30.05.2017/0000	21.3/91.6	110-120 GUSTING TO 130	SEVERE CYCLONIC STORM
30.05.2017/0600	22.8/91.7	110-120 GUSTING TO 130	SEVERE CYCLONIC STORM
30.05.2017/1800	25.4/92.2	55-65 GUSTING TO 75	DEEP DEPRESSION
31.05.2017/0600	27.7/93.0	30-40 GUSTING TO 50	DEPRESSION

**STORM SURGE GUIDANCE:** THE STORM SURGE OF HEIGHT OF ABOUT 1 TO 1.5 METER ABOVE ASTRONOMICAL TIDES IS LIKELY TO INUNDATE OVER LOW LYING AREAS OF BANGLADESH COAST BETWEEN SITAKUND AND UTTAR JALDI AT THE TIME OF LANDFALL.

ACCORDING TO SATELLITE IMAGERY, INTENSITY OF THE SYSTEM IS

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T3.0. THE MAXIMUM SURFACE SUSTAINED SURFACE WIND (MSW) IS 45 KNOTS GUSTING TO 55 KNOTS. THE ESTIMATED CENTRAL PRESSURE IS ABOUT 992 HPA. A BUOY NEAR LATITUDE 17.6° N AND LONGITUDE 89.1°E REPORTED MEAN SEA LEVEL PRESSURE (MSLP) OF 1003.1 HPA AND MSW 320/21 KNOTS. ANOTHER BUOY NEAR LATITUDE 20.3° N AND LONGITUDE 92.0°E REPORTED MSLP OF 1000.0 HPA. THE MULTI-SATELLITE DERIVED WINDS SUGGEST HIGHER WINDS OF EASTERN SECTOR.

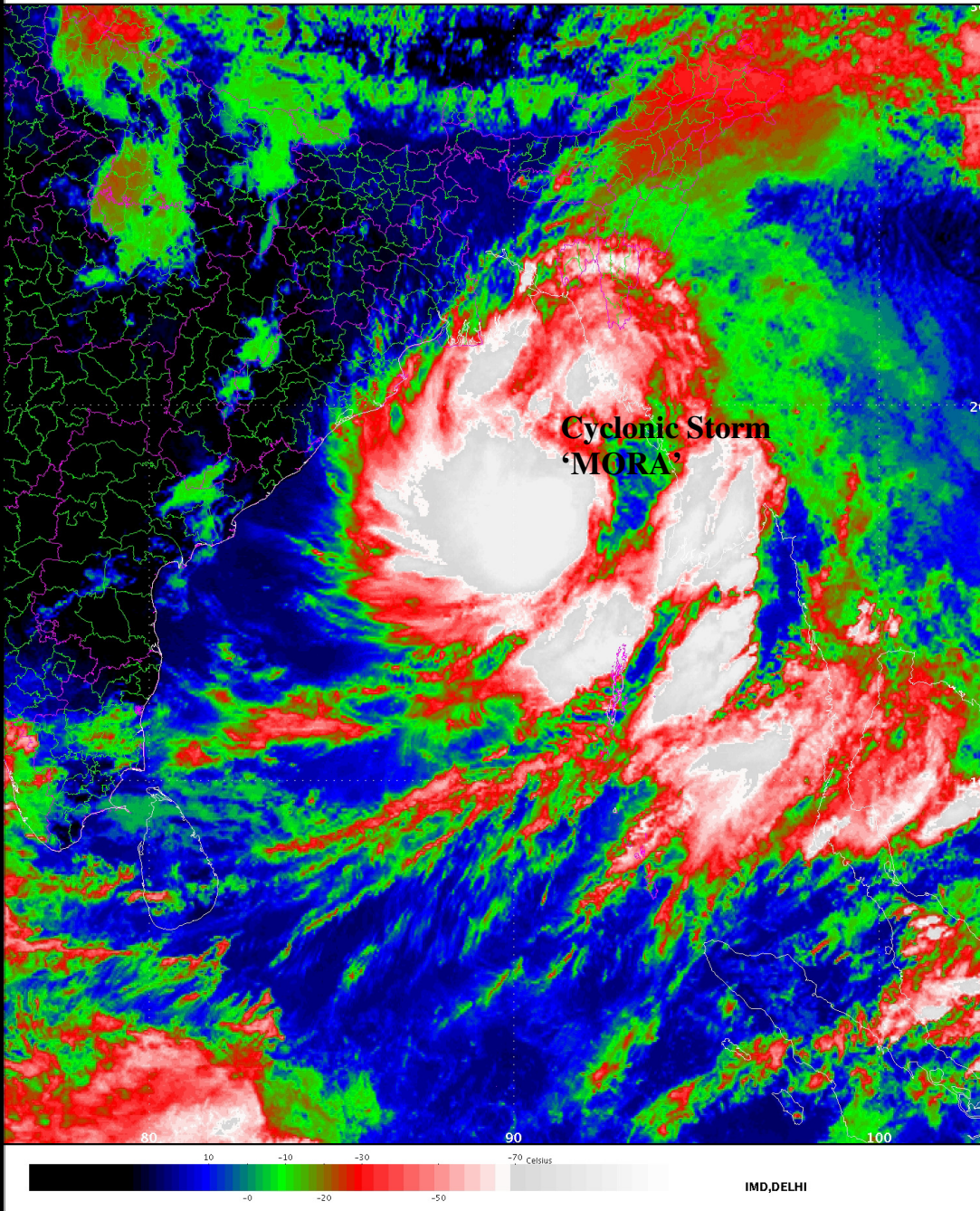
THE CONVECTION HAS FURTHER ORGANISED IN PAST 12 HOURS AND SHOWS CURVED BAND PATTERN. BROKEN LOW/MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION OVER BAY OF BENGAL BETWEEN LATITUDE 14.0°N TO 22.0°N LONGITUDE 85.0°E TO 97.0°E. MINIMUM CTT IS AROUND - 90.0°C. THE SEA SURFACE TEMPERATURE AROUND THE SYSTEM CENTRE IS 30-31°C. THE OCEAN THERMAL ENERGY IS ABOUT 100 KJ/CM<sup>2</sup>. THE VERTICAL WIND SHEAR IS MODERATE TO HIGH AROUND THE SYSTEM CENTRE AND IS AROUND 15-25 KTS, VORTICITY IS AROUND 200 X10<sup>-5</sup> S<sup>-1</sup>. LOWER LEVEL CONVERGENCE IS OF THE ORDER OF 50 X10<sup>-5</sup> S<sup>-1</sup>. UPPER LEVEL DIVERGENCE IS ALSO OF THE ORDER OF 50 X10<sup>-5</sup> S<sup>-1</sup> AROUND THE SYSTEM CENTRE. THE UPPER TROPOSPHERIC RIDGE AT 200 HPA LEVEL RUNS ALONG 17.0°N IN ASSOCIATION WITH ANTI-CYCLONIC CIRCULATION TO THE NORTHEAST OF SYSTEM CENTRE. THE SYSTEM IS MOVING NORTH-NORTHEASTWARDS AS IT LAYS WESTERN PERIPHERY OF THIS ANTI-CYCLONIC CIRCULATION. IT WOULD CONTINUE TO MOVE SO FOR NEXT 24-36 HOURS AND THEREAFTER EASTERLY COMPONENT OF THE MOVEMENT WILL INCREASE GRADUALLY UNDER THE INFLUENCE OF THE TROUGH IN WESTERLY OVER EASTERN INDIA. CURRENTLY SYSTEM IS BEING STARRED BY THE DEEP LAYER WIND OF 200-850 HPA. THE MEAN DEEP LAYER WIND BETWEEN 200-850 HPA IS 170DEGREE/7 KNOTS. THE ANIMATION OF TOTAL PERCEPTIBLE WATER IMAGERY INDICATE CONTINUOUS WARM AND MOIST AIR ADVECTION FROM SOUTHEAST SECTOR. THE LATEST MICROWAVE IMAGERY FROM SSMIS AT 0001 UTC OF 29<sup>TH</sup> INDICATE DEEP CONVECTIVE BANDING WRAPPING TOWARDS THE CENTRE FROM NORTHEAST.

MADDEN JULIAN OSCILLATION INDEX LIES IN PHASE 3 WITH AMPLITUDE MORE THAN 1. IT WOULD CONTINUE IN PHASE 3 WITH AMPLITUDE MORE THAN 1 DURING NEXT 3 DAYS. CURRENT ENVIRONMENTAL CONDITIONS ARE SUPPORTING FOR FURTHER INTENSIFICATION AND NORTH-NORTHEASTWARDS MOVEMENT OF THE SYSTEM. DYNAMICAL STATISTICAL MODELS ALSO SUGGEST FURTHER INTENSIFICATION OF THE SYSTEM. CONSIDERING THE MOVEMENT, MOST OF THE MODELS ARE UNANIMOUS ABOUT NORTH-NORTHEASTWARD MOVEMENT DURING NEXT 48 HRS.

(NARESH KUMAR)  
SCIENTIST 'D'  
RSMC, NEW DELHI

SAT :INSAT-3D  
IMG\_TIR1\_TEMP 10.8 um  
SECTOR BAYOFBENGAL Mercator (NHC LUT)

29-05-2017/07:00 GMT  
29-05-2017/12:30 IST



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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 CYCLONE ADVISORY**  
**RSMC – TROPICAL CYCLONES, NEW DELHI**

**TROPICAL STORM ‘MORA’ ADVISORY NO. SEVEN ISSUED AT 1200 UTC OF 29<sup>TH</sup>  
MAY 2017 BASED ON 0900 UTC CHARTS OF 29<sup>TH</sup> MAY 2017**

THE CYCLONIC STORM ‘MORA’ OVER EASTCENTRAL BAY OF BENGAL MOVED FURTHER NORTH-NORTHEASTWARD DURING PAST 06 HOURS WITH A SPEED OF 19 KMPH AND LAY CENTRED AT 0900 UTC OF TODAY, 29TH MAY, 2017 OVER EASTCENTRAL BAY OF BENGAL NEAR LATITUDE 18.3°N AND LONGITUDE 91.5°E, ABOUT 570 KM SOUTH-SOUTHEAST OF KOLKATA(42807) AND 440 KM SOUTH-SOUTHWEST OF CHITTAGONG(41978). THE SYSTEM IS LIKELY TO INTENSIFY FURTHER INTO A SEVERE CYCLONIC STORM DURING NEXT 12 HOURS. IT IS VERY LIKELY TO MOVE NORTH-NORTHEASTWARDS AND CROSS BANGLADESH COAST BETWEEN LONGITUDE 91.0°E AND 92.0°E NEAR CHITTAGONG AROUND 30TH MAY 2017 FORENOON.

OBSERVED AND FORECAST TRACK POSITIONS AND INTENSITY OF THE SYSTEM ARE GIVEN BELOW:

DATE/TIME(UTC)	POSITION (LAT. °N/ LONG. °E)	MAXIMUM SUSTAINED SURFACE WIND SPEED (KMPH)	CATEGORY OF CYCLONIC DISTURBANCE
29.05.2017/0900	18.3/91.5	80-90 GUSTING TO 100	CYCLONIC STORM
29.05.2017/1200	18.9/91.5	90-100 GUSTING TO 110	SEVERE CYCLONIC STORM
29.05.2017/1800	20.1/91.5	100-110 GUSTING TO 120	SEVERE CYCLONIC STORM
30.05.2017/0000	21.3/91.6	110-120 GUSTING TO 130	SEVERE CYCLONIC STORM
30.05.2017/0600	22.8/91.7	110-120 GUSTING TO 130	SEVERE CYCLONIC STORM
30.05.2017/1800	25.4/92.2	55-65 GUSTING TO 75	DEEP DEPRESSION
31.05.2017/0600	27.7/93.0	30-40 GUSTING TO 50	DEPRESSION

**STORM SURGE GUIDANCE:** THE STORM SURGE OF HEIGHT OF ABOUT 1 TO 1.5 METER ABOVE ASTRONOMICAL TIDES IS LIKELY TO INUNDATE OVER LOW LYING AREAS OF BANGLADESH COAST BETWEEN SITAKUND AND UTTAR JALDI AT THE TIME OF LANDFALL.

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ACCORDING TO SATELLITE IMAGERY, INTENSITY OF THE SYSTEM IS T3.0. THE MAXIMUM SURFACE SUSTAINED SURFACE WIND (MSW) IS 45 KNOTS GUSTING TO 55 KNOTS. THE ESTIMATED CENTRAL PRESSURE IS ABOUT 992 HPA. A BUOY NEAR LATITUDE 17.6° N AND LONGITUDE 89.1°E REPORTED MEAN SEA LEVEL PRESSURE (MSLP) OF 1005.1 HPA AND MSW 320/21 KNOTS. ANOTHER BUOY NEAR LATITUDE 16.4°N AND LONGITUDE 88.0°E REPORTED MSLP OF 1002.0 HPA AND MSW 300/12 KNOTS. THE MULTI-SATELLITE DERIVED WINDS SUGGEST HIGHER WINDS OF EASTERN SECTOR.

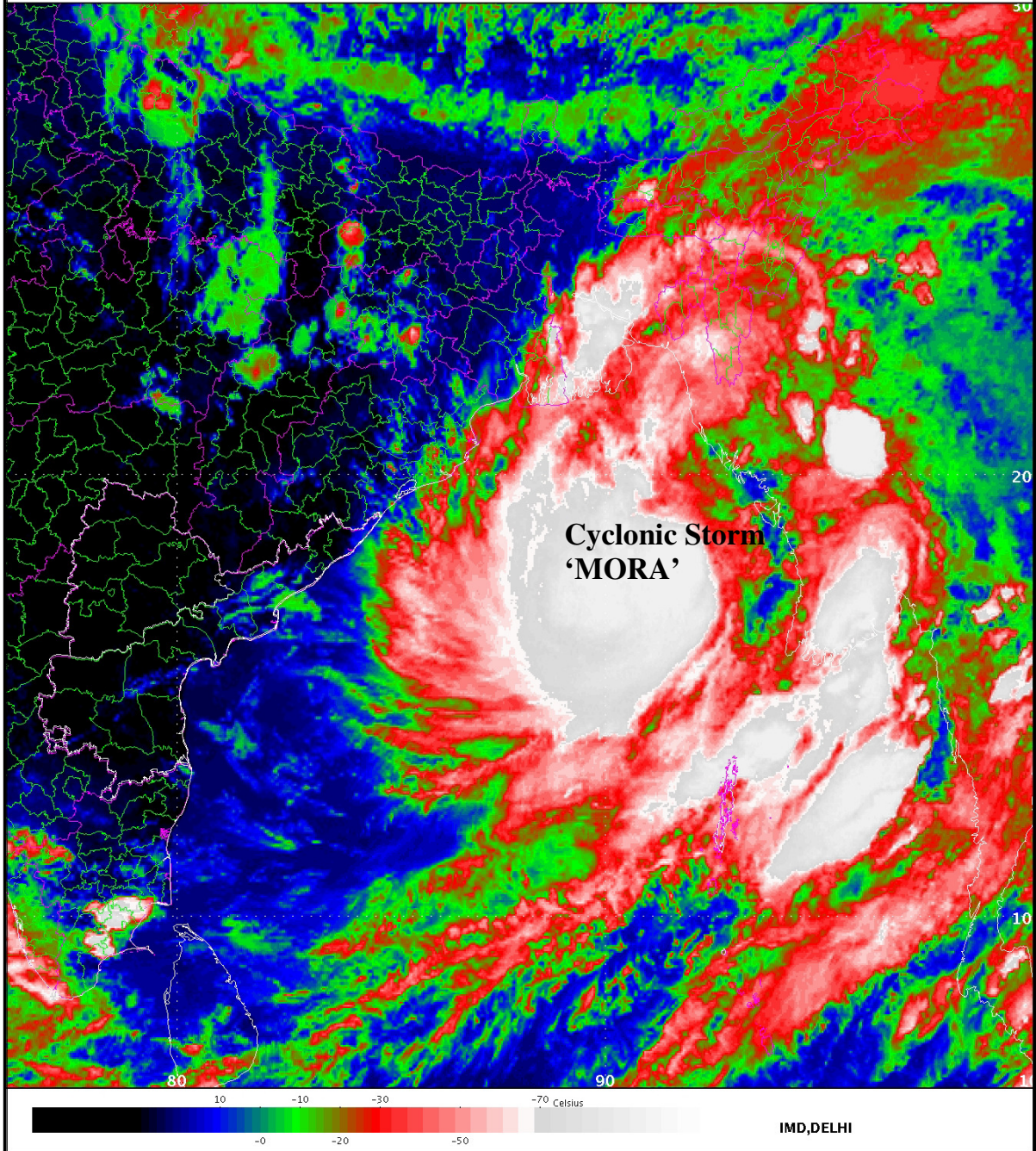
THE CONVECTION SHOWS CURVED BAND PATTERN. BROKEN LOW/MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION OVER BAY OF BENGAL BETWEEN LATITUDE 14.5°N TO 22.0°N LONGITUDE 85.0°E TO 97.0°E. MINIMUM CTT IS AROUND -90.0°C. THE SEA SURFACE TEMPERATURE AROUND THE SYSTEM CENTRE IS 30-31°C. THE OCEAN THERMAL ENERGY IS ABOUT 100 KJ/CM<sup>2</sup>. THE VERTICAL WIND SHEAR IS MODERATE TO HIGH AROUND THE SYSTEM CENTRE AND IS AROUND 15-20 KTS, VORTICITY IS AROUND 200 X10<sup>-5</sup> S<sup>-1</sup>. LOWER LEVEL CONVERGENCE IS OF THE ORDER OF 40 X10<sup>-5</sup> S<sup>-1</sup>. UPPER LEVEL DIVERGENCE IS ALSO OF THE ORDER OF 30-40 X10<sup>-5</sup> S<sup>-1</sup> AROUND THE SYSTEM CENTRE. THE UPPER TROPOSPHERIC RIDGE AT 200 HPA LEVEL RUNS ALONG 17.0°N IN ASSOCIATION WITH ANTI-CYCLONIC CIRCULATION TO THE NORTHEAST OF SYSTEM CENTRE. THE SYSTEM IS MOVING NORH-NORTHEASTWARDS AS IT LAYS WESTERN PERIPHERY OF THIS ANTI-CYCLONIC CIRCULATION. IT WOULD CONTINUE TO MOVE SO FOR NEXT 24-36 HOURS AND THEREAFTER EASTERLY COMPONENT OF THE MOVEMENT WILL INCREASE GRADUALLY UNDER THE INFLUENCE OF THE TROUGH IN WESTERLY OVER EASTERN INDIA. CURRENTLY SYSTEM IS BEING STARRED BY THE DEEP LAYER WIND OF 200-850 HPA. THE MEAN DEEP LAYER WIND BETWEEN 200-850 HPA IS 170DEGREE/7 KNOTS. THE ANIMATION OF TOTAL PERCEPTIBLE WATER IMAGERY INDICATE CONTINUOUS WARM AND MOIST AIR ADVECTION FROM SOUTHEAST SECTOR. THE LATEST MICROWAVE IMAGERY FROM SSMIS AT 0001 UTC OF 29<sup>TH</sup> INDICATE DEEP CONVECTIVE BANDING WRAPPING TOWARDS THE CENTRE FROM NORTHEAST.

MADDEN JULIAN OSCILLATION INDEX LIES IN PHASE 3 WITH AMPLITUDE MORE THAN 1. IT WOULD CONTINUE IN PHASE 3 WITH AMPLITUDE MORE THAN 1 DURING NEXT 3 DAYS. CURRENT ENVIRONMENTAL CONDITIONS ARE SUPPORTING FOR FURTHER INTENSIFICATION AND NORTH-NORTHEASTWARDS MOVEMENT OF THE SYSTEM. DYNAMICAL STATISTICAL MODELS ALSO SUGGEST FURTHER INTENSIFICATION OF THE SYSTEM. CONSIDERING THE MOVEMENT, MOST OF THE MODELS ARE UNANIMOUS ABOUT NORTH-NORTHEASTWARD MOVEMENT DURING NEXT 48 HRS.

(NARESH KUMAR)  
SCIENTIST 'D'  
RSMC, NEW DELHI

SAT :INSAT-3D  
IMG\_TIR1\_TEMP 10.8 um  
SECTOR BAYOFBENGAL Mercator (NHC LUT)

29-05-2017/10:00 GMT  
29-05-2017/15:30 IST



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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 CYCLONE ADVISORY**  
**RSMC – TROPICAL CYCLONES, NEW DELHI**

**TROPICAL STORM 'MORA' ADVISORY NO. EIGHT ISSUED AT 1500 UTC OF 29<sup>TH</sup> MAY  
2017 BASED ON 1200 UTC CHARTS OF 29<sup>TH</sup> MAY 2017**

THE CYCLONIC STORM 'MORA' OVER EASTCENTRAL BAY OF BENGAL MOVED FURTHER NORTH-NORTHEASTWARD DURING PAST 06 HOURS WITH A SPEED OF 15 KMPH, INTENSIFIED INTO A SEVERE CYCLONIC STORM AND LAY CENTRED AT 1200 UTC OF TODAY, 29TH MAY, 2017 OVER NORTHEAST & ADJOINING EASTCENTRAL BAY OF BENGAL NEAR LATITUDE 18.6°N AND LONGITUDE 91.5°E, ABOUT 550 KM SOUTH-SOUTHEAST OF KOLKATA(42807) AND 410 KM SOUTH-SOUTHWEST OF CHITTAGONG(41978). THE SYSTEM IS LIKELY TO SLIGHTLY INTENSIFY FURTHER DURING NEXT 12 HOURS. IT IS VERY LIKELY TO MOVE NORTH-NORTHEASTWARDS AND CROSS BANGLADESH COAST NEAR CHITTAGONG BY 30TH MAY 2017 FORENOON.

OBSERVED AND FORECAST TRACK POSITIONS AND INTENSITY OF THE SYSTEM ARE GIVEN BELOW:

DATE/TIME(UTC)	POSITION (LAT. °N/ LONG. °E)	MAXIMUM SUSTAINED SURFACE WIND SPEED (KMPH)	CATEGORY OF CYCLONIC DISTURBANCE
29.05.2017/1200	18.6/91.5	90-100 GUSTING TO 110	SEVERE CYCLONIC STORM
29.05.2017/1800	20.0/91.6	100-110 GUSTING TO 120	SEVERE CYCLONIC STORM
30.05.2017/0000	21.3/91.7	110-120 GUSTING TO 130	SEVERE CYCLONIC STORM
30.05.2017/0600	22.8/91.8	100-110 GUSTING TO 120	SEVERE CYCLONIC STORM
30.05.2017/1200	24.1/92.1	55-65 GUSTING TO 75	DEEP DEPRESSION
31.05.2017/0000	26.4/93.0	25-35 GUSTING TO 45	WELL MARKED LOW

**STORM SURGE GUIDANCE:** THE STORM SURGE OF HEIGHT OF ABOUT 1 TO 1.5 METER ABOVE ASTRONOMICAL TIDES IS LIKELY TO INUNDATE OVER LOW LYING AREAS OF BANGLADESH COAST BETWEEN SITAKUND AND UTTAR JALDI AT THE TIME OF LANDFALL.

ACCORDING TO SATELLITE IMAGERY, INTENSITY OF THE SYSTEM IS T3.0. THE MAXIMUM SUSTAINED SURFACE WIND (MSW) IS 50 KNOTS GUSTING TO 60 KNOTS. THE ESTIMATED CENTRAL PRESSURE IS ABOUT 990 HPA. SEA

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

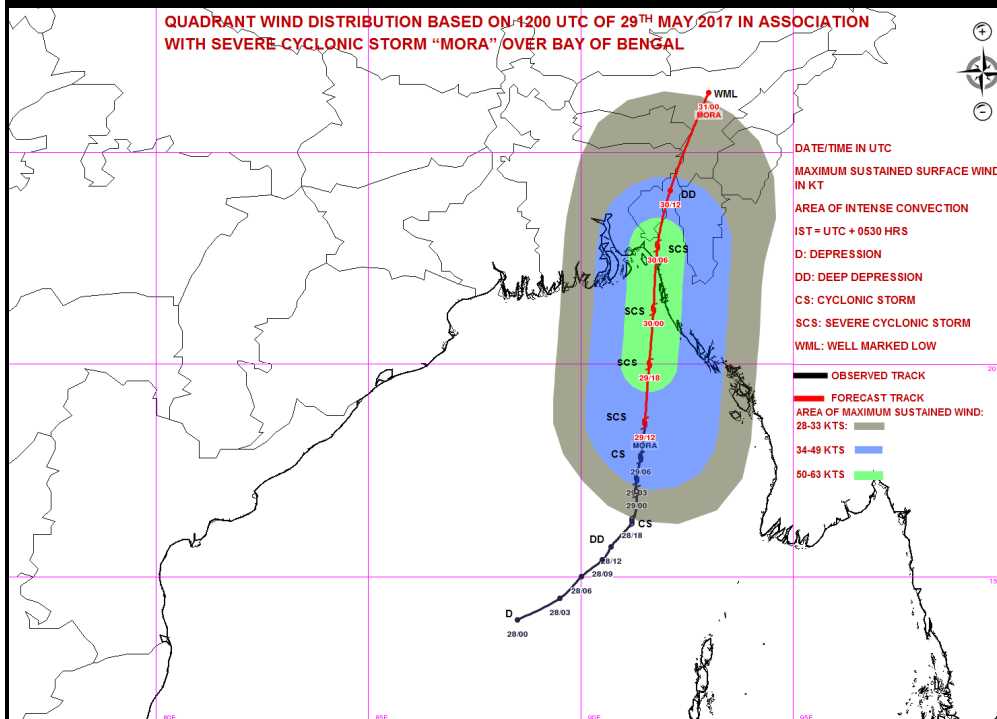
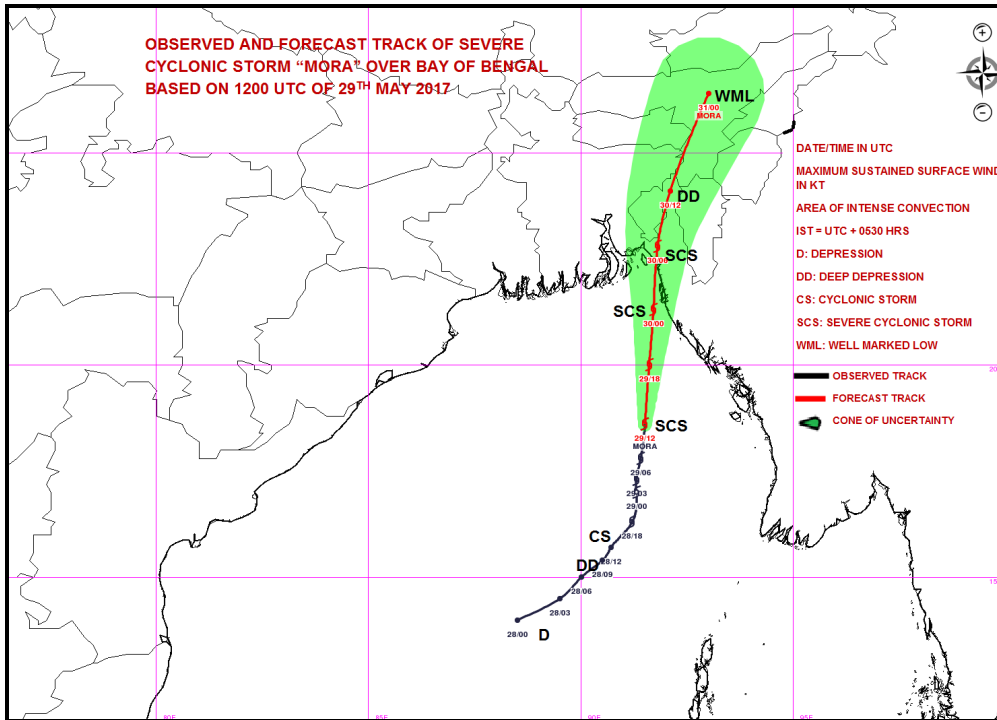
CONDITION IS PHENOMENAL AROUND THE SYSTEM CENTRE. A BUOY NEAR LATITUDE 17.5° N AND LONGITUDE 89.0°E REPORTED MEAN SEA LEVEL PRESSURE (MSLP) OF 1004.4 HPA AND MSW 310/20 KNOTS. ANOTHER BUOY NEAR LATITUDE 16.5°N AND LONGITUDE 88.0°E REPORTED MSLP OF 1002.6 HPA AND MSW 240/8 KNOTS. THE MULTI-SATELLITE DERIVED WINDS SUGGEST INCREASE IN INTENSITY OF THE SYSTEM.

THE CONVECTION HAS FURTHER ORGANISED AND SHOWS CURVED BAND PATTERN. BROKEN LOW/MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION OVER BAY OF BENGAL BETWEEN LATITUDE 14.0°N TO 20.0°N LONGITUDE 86.0°E TO 93.0°E. MINIMUM CTT IS AROUND – 90.0°C. THE SEA SURFACE TEMPERATURE AROUND THE SYSTEM CENTRE IS 30-31°C. THE OCEAN THERMAL ENERGY IS ABOUT 100 KJ/CM<sup>2</sup>. THE VERTICAL WIND SHEAR IS MODERATE TO HIGH AROUND THE SYSTEM CENTRE AND IS AROUND 15-20 KTS, VORTICITY IS AROUND 200 X10<sup>-5</sup> S<sup>-1</sup>. LOWER LEVEL CONVERGENCE IS OF THE ORDER OF 40 X10<sup>-5</sup> S<sup>-1</sup>. UPPER LEVEL DIVERGENCE IS ALSO OF THE ORDER OF 30-40X10<sup>-5</sup> S<sup>-1</sup> AROUND THE SYSTEM CENTRE. THE UPPER TROPOSPHERIC RIDGE AT 200 HPA LEVEL RUNS ALONG 17.0°N IN ASSOCIATION WITH ANTI-CYCLONIC CIRCULATION TO THE NORTHEAST OF SYSTEM CENTRE. THE SYSTEM IS MOVING NORTH-NORTHEASTWARDS AS IT LAYS WESTERN PERIPHERY OF THIS ANTI-CYCLONIC CIRCULATION. IT WOULD CONTINUE TO MOVE SO FOR NEXT 24-36 HOURS AND THEREAFTER EASTERLY COMPONENT OF THE MOVEMENT WILL INCREASE GRADUALLY UNDER THE INFLUENCE OF THE TROUGH IN WESTERLY OVER EASTERN INDIA. CURRENTLY SYSTEM IS BEING STARRED BY THE DEEP LAYER WIND OF 200-850 HPA. THE MEAN DEEP LAYER WIND BETWEEN 200-850 HPA IS 170°/7 KNOTS. THE ANIMATION OF TOTAL PERCEPTIBLE WATER IMAGERY INDICATES CONTINUOUS WARM AND MOIST AIR ADVECTION FROM SOUTHEAST SECTOR. THE LATEST MICROWAVE IMAGERY FROM SSMIS AT 1200 UTC OF 29<sup>TH</sup> INDICATES DEEP CONVECTIVE BANDING WRAPPING TOWARDS THE CENTRE FROM SOUTHEAST.

MADDEN JULIAN OSCILLATION INDEX LIES IN PHASE 3 WITH AMPLITUDE MORE THAN 1. IT WOULD CONTINUE IN PHASE 3 WITH AMPLITUDE MORE THAN 1 DURING NEXT 3 DAYS. CURRENT ENVIRONMENTAL CONDITIONS ARE SUPPORTING FOR FURTHER SLIGHT INTENSIFICATION AND NORTH-NORTHEASTWARDS MOVEMENT OF THE SYSTEM. DYNAMICAL STATISTICAL MODELS ALSO SUGGEST FURTHER INTENSIFICATION OF THE SYSTEM. CONSIDERING THE MOVEMENT, MOST OF THE MODELS ARE UNANIMOUS ABOUT NORTH-NORTHEASTWARD MOVEMENT DURING NEXT 36 HRS.

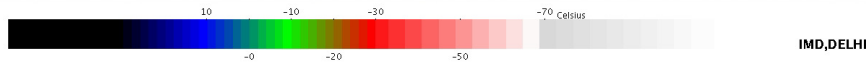
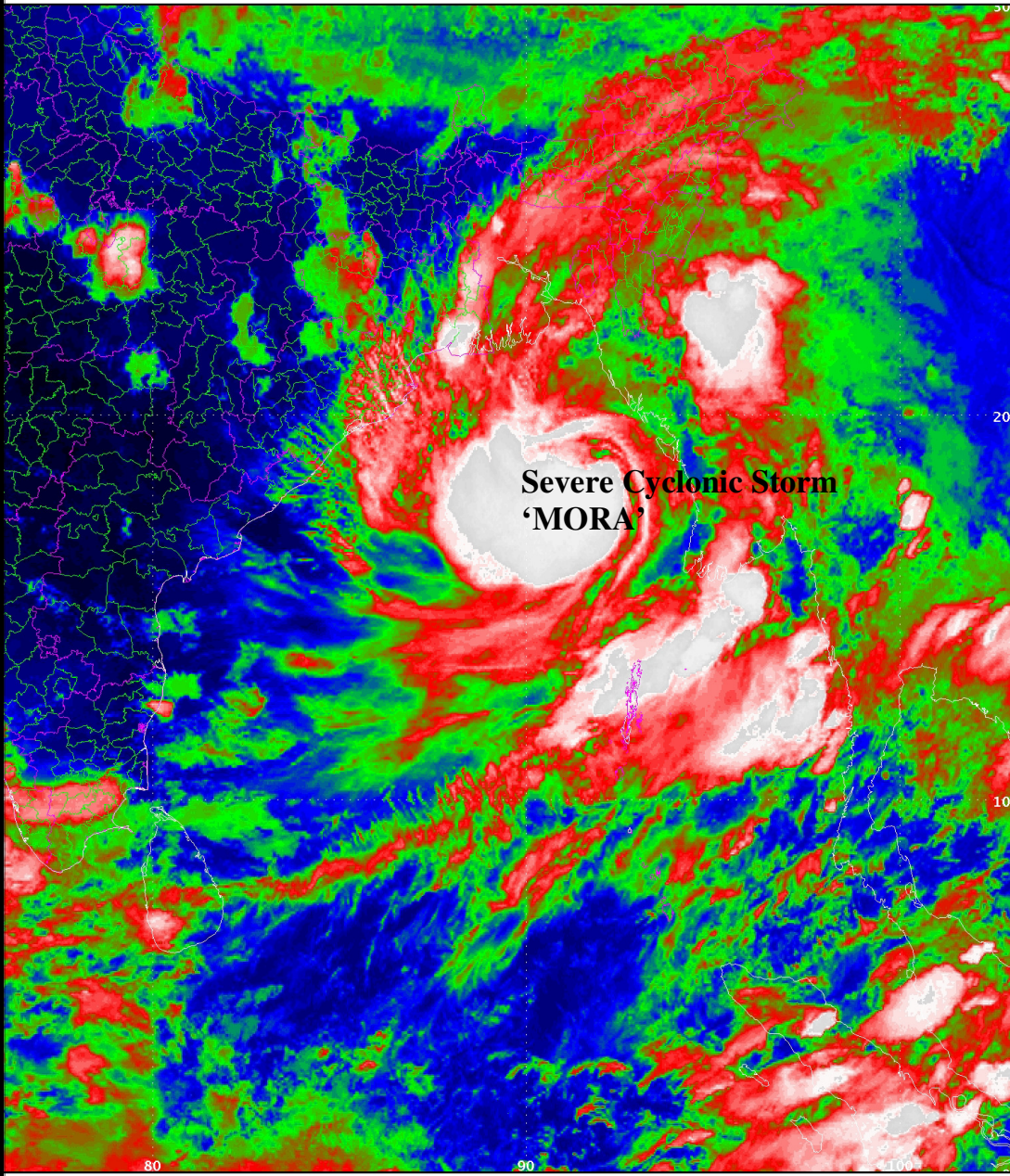
(NARESH KUMAR)  
SCIENTIST 'D'  
RSMC, NEW DELHI





SAT :INSAT-3D  
IMG\_TIR1\_TEMP 10.8 um  
SECTOR BAYOFBENGAL Mercator (NHC LUT)

29-05-2017/14:00 GMT  
29-05-2017/19:30 IST



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 CYCLONE ADVISORY**  
**RSMC – TROPICAL CYCLONES, NEW DELHI**

**TROPICAL STORM 'MORA' ADVISORY NO. NINE ISSUED AT 1700 UTC OF 29<sup>TH</sup> MAY  
2017 BASED ON 1500 UTC CHARTS OF 29<sup>TH</sup> MAY 2017**

THE SEVERE CYCLONIC STORM '**MORA**' OVER NORTHEAST AND ADJOINING EASTCENTRAL BAY OF BENGAL MOVED FURTHER NORTHWARD DURING PAST 06 HOURS WITH A SPEED OF 9 KMPH, AND LAY CENTRED AT 1500 UTC OF TODAY, 29<sup>TH</sup> MAY, 2017 OVER NORTHEAST & ADJOINING EASTCENTRAL BAY OF BENGAL NEAR LATITUDE 18.8°N AND LONGITUDE 91.5°E, ABOUT 530 KM SOUTH-SOUTHEAST OF KOLKATA (42807) AND 385 KM SOUTH-SOUTHWEST OF CHITTAGONG (41978). THE SYSTEM IS LIKELY TO SLIGHTLY INTENSIFY FURTHER DURING NEXT 12 HOURS. IT IS VERY LIKELY TO MOVE NORTH-NORTHEASTWARDS AND CROSS BANGLADESH COAST NEAR CHITTAGONG BY 30<sup>TH</sup> MAY 2017 FORENOON.

OBSERVED AND FORECAST TRACK POSITIONS AND INTENSITY OF THE SYSTEM ARE GIVEN BELOW:

DATE/TIME(UTC)	POSITION (LAT. °N/ LONG. °E)	MAXIMUM SUSTAINED SURFACE WIND SPEED (KMPH)	CATEGORY OF CYCLONIC DISTURBANCE
29.05.2017/1500	18.8/91.5	100-110 gusting to 120	Severe Cyclonic Storm
29.05.2017/1800	20.0/91.6	105-115 gusting to 125	Severe Cyclonic Storm
30.05.2017/0000	21.3/91.7	110-120 gusting to 130	Severe Cyclonic Storm
30.05.2017/0600	22.8/91.8	100-110 gusting to 120	Severe Cyclonic Storm
30.05.2017/1200	24.1/92.1	55-65 gusting to 75	Deep Depression
31.05.2017/0000	26.4/93.0	25-35 gusting to 45	Well Marked Low

**STORM SURGE GUIDANCE:** THE STORM SURGE OF HEIGHT OF ABOUT 1 TO 1.5 METER ABOVE ASTRONOMICAL TIDES IS LIKELY TO INUNDATE OVER LOW LYING AREAS OF BANGLADESH COAST BETWEEN SITAKUND AND UTTAR JALDI AT THE TIME OF LANDFALL.

ACCORDING TO SATELLITE IMAGERY, INTENSITY OF THE SYSTEM IS T3.5. THE MAXIMUM SUSTAINED SURFACE WIND (MSW) IS 55 KNOTS GUSTING TO 65 KNOTS. THE ESTIMATED CENTRAL PRESSURE IS ABOUT 986 HPA. SEA

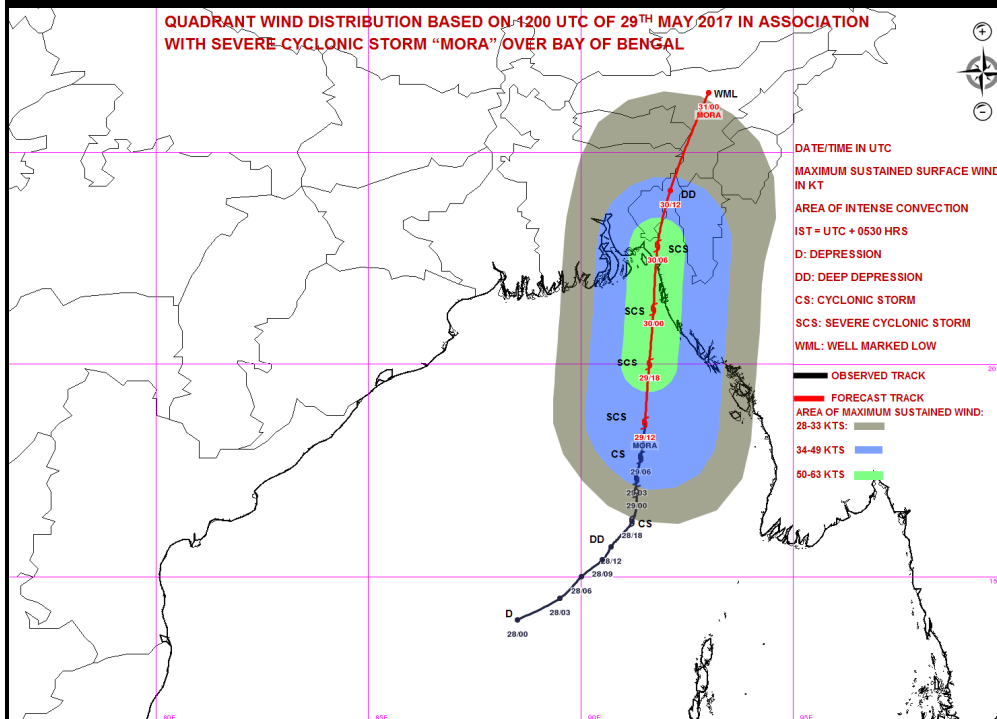
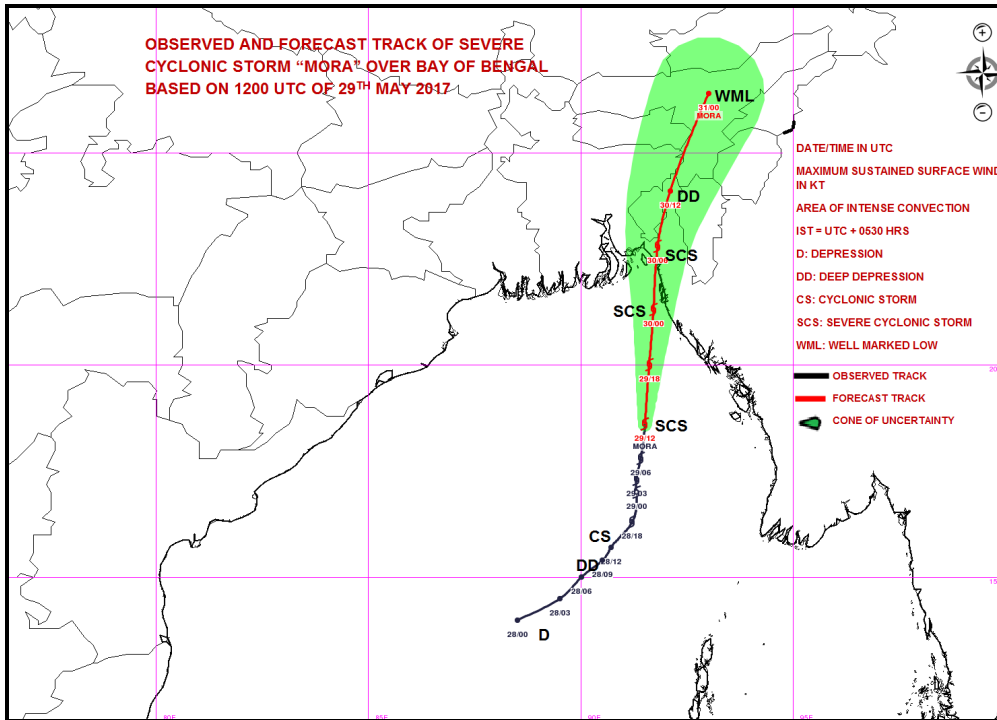
**Contact: Phone: (91) 11-24652484 FAX: (91) 11-24623220 e-mail :cwdhq2008@gmail.com**

CONDITION IS PHENOMENAL AROUND THE SYSTEM CENTRE. A BUOY NEAR LATITUDE 17.5° N AND LONGITUDE 89.0°E REPORTED MEAN SEA LEVEL PRESSURE (MSLP) OF 1001.9 HPA AND MSW 300/16 KNOTS. ANOTHER BUOY NEAR LATITUDE 16.5°N AND LONGITUDE 88.0°E REPORTED MSLP OF 1000.6 HPA AND MSW 230/12 KNOTS. THE MULTI-SATELLITE DERIVED WINDS SUGGEST INCREASE IN INTENSITY OF THE SYSTEM.

THE CONVECTION HAS FURTHER ORGANISED AND SHOWS CURVED BAND PATTERN. BROKEN LOW/MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION OVER BAY OF BENGAL BETWEEN LATITUDE 14.0°N TO 20.0°N LONGITUDE 86.0°E TO 93.0°E. MINIMUM CTT IS AROUND – 90.0°C. THE SEA SURFACE TEMPERATURE AROUND THE SYSTEM CENTRE IS 30-31°C. THE OCEAN THERMAL ENERGY IS ABOUT 100 KJ/CM<sup>2</sup>. THE VERTICAL WIND SHEAR IS MODERATE TO HIGH AROUND THE SYSTEM CENTRE AND IS AROUND 15-20 KTS, VORTICITY IS AROUND 200 X10<sup>-5</sup> S<sup>-1</sup>. LOWER LEVEL CONVERGENCE IS OF THE ORDER OF 40 X10<sup>-5</sup> S<sup>-1</sup>. UPPER LEVEL DIVERGENCE IS ALSO OF THE ORDER OF 30-40X10<sup>-5</sup> S<sup>-1</sup> AROUND THE SYSTEM CENTRE. THE UPPER TROPOSPHERIC RIDGE AT 200 HPA LEVEL RUNS ALONG 17.0°N IN ASSOCIATION WITH ANTI-CYCLONIC CIRCULATION TO THE NORTHEAST OF SYSTEM CENTRE. THE SYSTEM IS MOVING NORTH-NORTHEASTWARDS AS IT LAYS WESTERN PERIPHERY OF THIS ANTI-CYCLONIC CIRCULATION. IT WOULD CONTINUE TO MOVE SO FOR NEXT 24-36 HOURS AND THEREAFTER EASTERLY COMPONENT OF THE MOVEMENT WILL INCREASE GRADUALLY UNDER THE INFLUENCE OF THE TROUGH IN WESTERLY OVER EASTERN INDIA. CURRENTLY SYSTEM IS BEING STARRED BY THE DEEP LAYER WIND OF 200-850 HPA. THE MEAN DEEP LAYER WIND BETWEEN 200-850 HPA IS 170°/7 KNOTS. THE ANIMATION OF TOTAL PERCEPTIBLE WATER IMAGERY INDICATES CONTINUOUS WARM AND MOIST AIR ADVECTION FROM SOUTHEAST SECTOR. THE LATEST MICROWAVE IMAGERY FROM SSMIS AT 1200 UTC OF 29<sup>TH</sup> INDICATES DEEP CONVECTIVE BANDING WRAPPING TOWARDS THE CENTRE FROM SOUTHEAST.

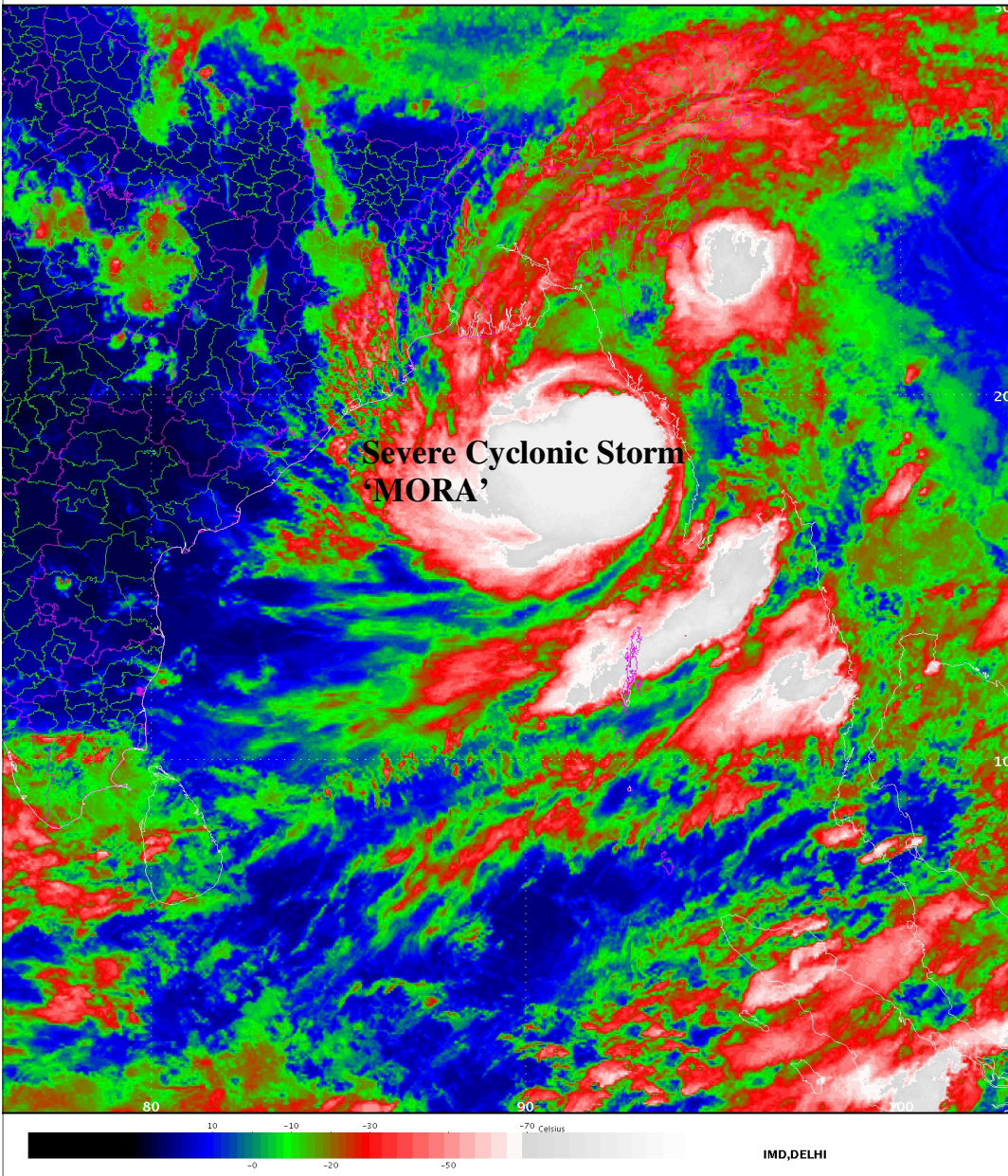
MADDEN JULIAN OSCILLATION INDEX LIES IN PHASE 3 WITH AMPLITUDE MORE THAN 1. IT WOULD CONTINUE IN PHASE 3 WITH AMPLITUDE MORE THAN 1 DURING NEXT 3 DAYS. CURRENT ENVIRONMENTAL CONDITIONS ARE SUPPORTING FOR FURTHER SLIGHT INTENSIFICATION AND NORTH-NORTHEASTWARDS MOVEMENT OF THE SYSTEM. DYNAMICAL STATISTICAL MODELS ALSO SUGGEST FURTHER INTENSIFICATION OF THE SYSTEM. CONSIDERING THE MOVEMENT, MOST OF THE MODELS ARE UNANIMOUS ABOUT NORTH-NORTHEASTWARD MOVEMENT DURING NEXT 36 HRS.

(SHAMBU RAVINDREN)  
SCIENTIST 'B'  
RSMC, NEW DELHI



SAT :INSAT-3D  
IMG\_TIR1\_TEMP 10.8 um  
SECTOR BAYOFBENGAL Mercator (NHC LUT)

29-05-2017/16:00 GMT  
29-05-2017/21:30 IST





**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 CYCLONE ADVISORY**  
**RSMC – TROPICAL CYCLONES, NEW DELHI**

**TROPICAL STORM 'MORA' ADVISORY NO. TEN ISSUED AT 2100 UTC OF 29<sup>TH</sup> MAY  
2017 BASED ON 1800 UTC CHARTS OF 29<sup>TH</sup> MAY 2017**

THE SEVERE CYCLONIC STORM '**MORA**' OVER NORTHEAST AND ADJOINING EASTCENTRAL BAY OF BENGAL MOVED FURTHER NORTH NORTHEASTWARD DURING PAST 06 HOURS WITH A SPEED OF 26 KMPH, AND LAY CENTRED AT 1800 UTC OF TODAY, 29<sup>TH</sup> MAY, 2017 OVER NORTHEAST & ADJOINING EASTCENTRAL BAY OF BENGAL NEAR LATITUDE 20.0°N AND LONGITUDE 91.6°E, ABOUT 440 KM SOUTHEAST OF KOLKATA (42807) AND 250 KM SOUTH-SOUTHWEST OF CHITTAGONG (41978). IT IS VERY LIKELY TO MOVE NORTH-NORTHEASTWARDS AND CROSS BANGLADESH COAST NEAR CHITTAGONG BY 30<sup>TH</sup> MAY 2017 FORENOON

OBSERVED AND FORECAST TRACK POSITIONS AND INTENSITY OF THE SYSTEM ARE GIVEN BELOW:

DATE/TIME(UTC)	POSITION (LAT. °N/ LONG. °E)	MAXIMUM SUSTAINED SURFACE WIND SPEED (KMPH)	CATEGORY OF CYCLONIC DISTURBANCE
29.05.2017/1800	20.0/91.6	100-110 gusting to 120	Severe Cyclonic Storm
30.05.2017/0000	21.3/91.7	105-115 gusting to 125	Severe Cyclonic Storm
30.05.2017/0600	22.8/91.8	100-110 gusting to 120	Severe Cyclonic Storm
30.05.2017/1200	24.1/92.1	55-65 gusting to 75	Deep Depression
30.05.2017/1800	25.3/92.6	25-35 gusting to 45	Well Marked Low

**STORM SURGE GUIDANCE:** THE STORM SURGE OF HEIGHT OF ABOUT 1 TO 1.5 METER ABOVE ASTRONOMICAL TIDES IS LIKELY TO INUNDATE OVER LOW LYING AREAS OF BANGLADESH COAST BETWEEN SITAKUND AND UTTAR JALDI AT THE TIME OF LANDFALL.

ACCORDING TO SATELLITE IMAGERY, INTENSITY OF THE SYSTEM IS T3.5. THE MAXIMUM SUSTAINED SURFACE WIND (MSW) IS 55 KNOTS GUSTING TO 65 KNOTS. THE ESTIMATED CENTRAL PRESSURE IS ABOUT 984 HPA. SEA CONDITION IS PHENOMENAL AROUND THE SYSTEM CENTRE. A BUOY NEAR

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

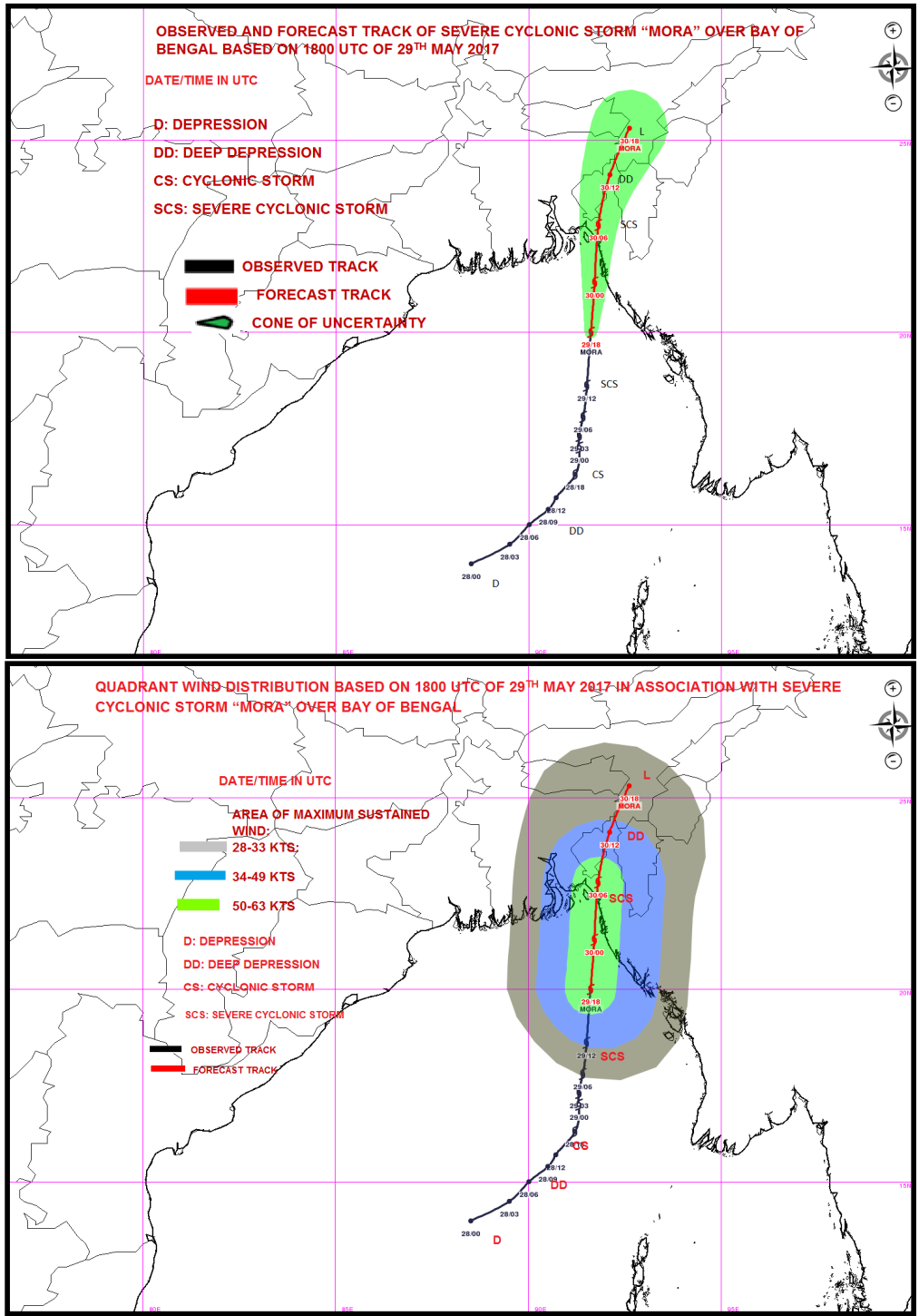
LATITUDE 17.5° N AND LONGITUDE 89.0°E REPORTED MEAN SEA LEVEL PRESSURE (MSLP) OF 1001.4 HPA AND MSW 260/16 KNOTS. THE MULTI-SATELLITE DERIVED WINDS SUGGEST INCREASE IN INTENSITY OF THE SYSTEM. THE SEVERE CYCLONIC STORM IS NOW MONITORED BY COX'S BAZAR RADAR. THE CURRENT POSITION IS MAINLY BASED ON COX'S BAZAR RADAR ESTIMATE. COX'S BAZAR RADAR SHOWN A WELL DEFINED SPIRAL BAND STRUCTURE.

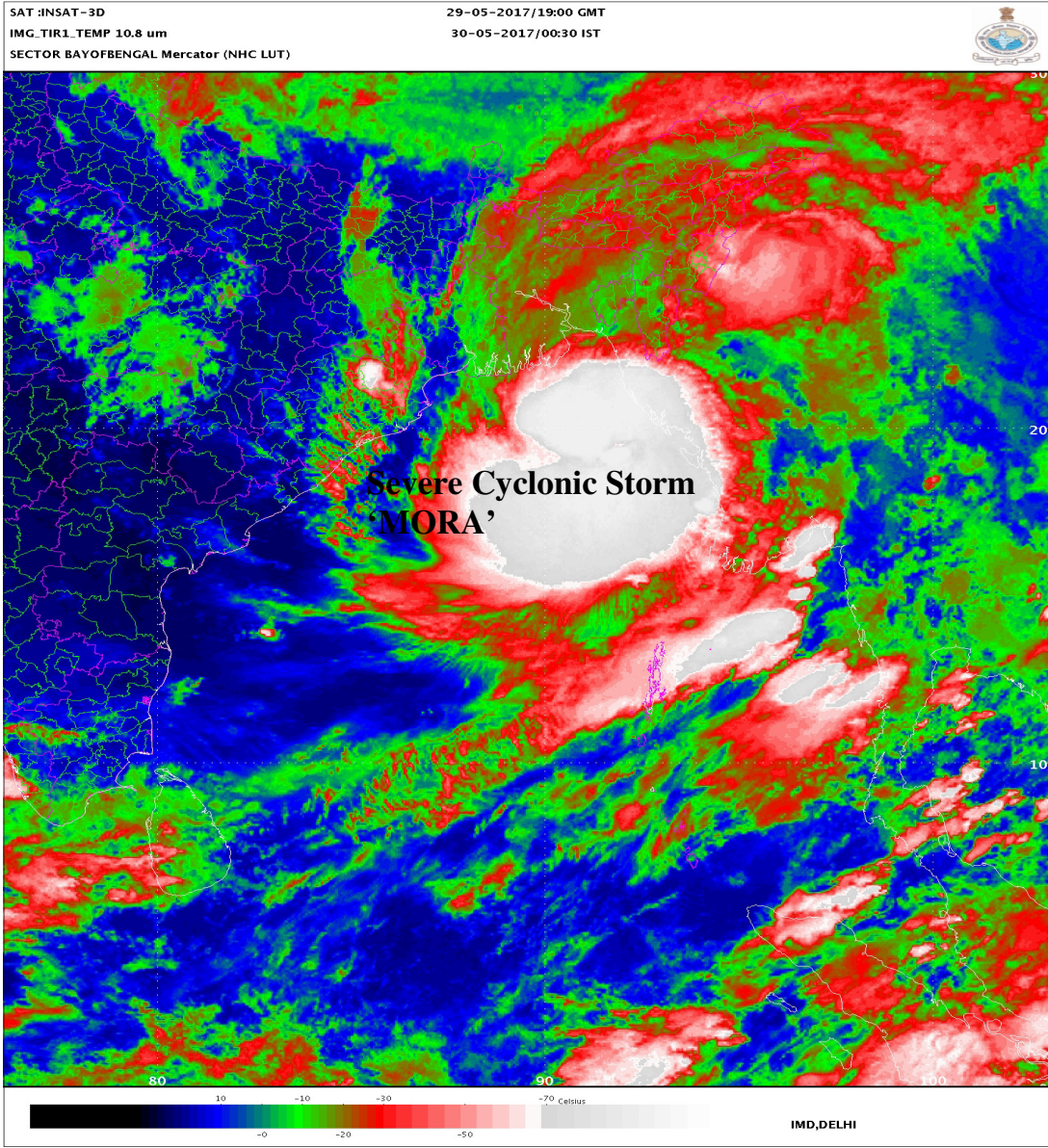
THE CONVECTION HAS FURTHER ORGANISED AND SHOWS CURVED BAND PATTERN. BROKEN LOW/MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION OVER BAY OF BENGAL BETWEEN LATITUDE 14.0°N TO 20.0°N LONGITUDE 86.0°E TO 93.0°E. MINIMUM CTT IS AROUND – 90.0°C. THE SEA SURFACE TEMPERATURE AROUND THE SYSTEM CENTRE IS 30-31°C. THE OCEAN THERMAL ENERGY IS ABOUT 100 KJ/CM<sup>2</sup>. THE VERTICAL WIND SHEAR IS MODERATE TO HIGH AROUND THE SYSTEM CENTRE AND IS AROUND 15-20 KTS, VORTICITY IS AROUND 200 X10<sup>-5</sup> S<sup>-1</sup>. LOWER LEVEL CONVERGENCE IS OF THE ORDER OF 40 X10<sup>-5</sup> S<sup>-1</sup>. UPPER LEVEL DIVERGENCE IS ALSO OF THE ORDER OF 30-40X10<sup>-5</sup> S<sup>-1</sup> AROUND THE SYSTEM CENTRE. THE UPPER TROPOSPHERIC RIDGE AT 200 HPA LEVEL RUNS ALONG 17.0°N IN ASSOCIATION WITH ANTI-CYCLONIC CIRCULATION TO THE NORTHEAST OF SYSTEM CENTRE. THE SYSTEM IS MOVING NORTH-NORTHEASTWARDS AS IT LAYS WESTERN PERIPHERY OF THIS ANTI-CYCLONIC CIRCULATION. IT WOULD CONTINUE TO MOVE SO FOR NEXT 24-36 HOURS AND THEREAFTER EASTERLY COMPONENT OF THE MOVEMENT WILL INCREASE GRADUALLY UNDER THE INFLUENCE OF THE TROUGH IN WESTERLY OVER EASTERN INDIA. CURRENTLY SYSTEM IS BEING STARRED BY THE DEEP LAYER WIND OF 200-850 HPA. THE MEAN DEEP LAYER WIND BETWEEN 200-850 HPA IS 170°/7 KNOTS. THE ANIMATION OF TOTAL PERCEPTIBLE WATER IMAGERY INDICATES CONTINUOUS WARM AND MOIST AIR ADVECTION FROM SOUTHEAST SECTOR. THE LATEST MICROWAVE IMAGERY FROM SSMIS AT 1200 UTC OF 29<sup>TH</sup> INDICATES DEEP CONVECTIVE BANDING WRAPPING TOWARDS THE CENTRE FROM SOUTHEAST.

MADDEN JULIAN OSCILLATION INDEX LIES IN PHASE 3 WITH AMPLITUDE MORE THAN 1. IT WOULD CONTINUE IN PHASE 3 WITH AMPLITUDE MORE THAN 1 DURING NEXT 3 DAYS. CURRENT ENVIRONMENTAL CONDITIONS ARE SUPPORTING FOR FURTHER SLIGHT INTENSIFICATION AND NORTH-NORTHEASTWARDS MOVEMENT OF THE SYSTEM. DYNAMICAL STATISTICAL MODELS ALSO SUGGEST FURTHER INTENSIFICATION OF THE SYSTEM. CONSIDERING THE MOVEMENT, MOST OF THE MODELS ARE UNANIMOUS ABOUT NORTH-NORTHEASTWARD MOVEMENT DURING NEXT 24 HRS.

(SHAMBU RAVINDREN)  
SCIENTIST 'B'  
RSMC, NEW DELHI







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 CYCLONE ADVISORY**  
**RSMC – TROPICAL CYCLONES, NEW DELHI**

**TROPICAL STORM ‘MORA’ ADVISORY NO. ELEVEN ISSUED AT 2230 UTC OF 29<sup>TH</sup>  
MAY 2017 BASED ON 2100 UTC CHARTS OF 29<sup>TH</sup> MAY 2017**

THE SEVERE CYCLONIC STORM ‘**MORA**’ OVER NORTHEAST AND ADJOINING EASTCENTRAL BAY OF BENGAL MOVED FURTHER NORTH NORTHEASTWARD DURING PAST 06 HOURS WITH A SPEED OF 28 KMPH, AND LAY CENTRED AT 2100 UTC OF TODAY, 29<sup>TH</sup> MAY, 2017 OVER NORTHEAST BAY OF BENGAL NEAR LATITUDE 20.3°N AND LONGITUDE 91.6°E, ABOUT 420 KM SOUTHEAST OF KOLKATA (42807) AND 220 KM SOUTH-SOUTHWEST OF CHITTAGONG (41978). IT IS VERY LIKELY TO MOVE NORTH-NORTHEASTWARDS AND CROSS BANGLADESH COAST NEAR CHITTAGONG BY 30<sup>TH</sup> MAY 2017 FORENOON

OBSERVED AND FORECAST TRACK POSITIONS AND INTENSITY OF THE SYSTEM ARE GIVEN BELOW:

DATE/TIME(UTC)	POSITION (LAT. °N/ LONG. °E)	MAXIMUM SUSTAINED SURFACE WIND SPEED (KMPH)	CATEGORY OF CYCLONIC DISTURBANCE
29.05.2017/2100	20.3/91.6	100-110 gusting to 120	Severe Cyclonic Storm
30.05.2017/0000	21.3/91.7	105-115 gusting to 125	Severe Cyclonic Storm
30.05.2017/0600	22.8/91.8	100-110 gusting to 120	Severe Cyclonic Storm
30.05.2017/1200	24.1/92.1	55-65 gusting to 75	Deep Depression
30.05.2017/1800	25.3/92.6	25-35 gusting to 45	Well Marked Low

**STORM SURGE GUIDANCE:** THE STORM SURGE OF HEIGHT OF ABOUT 1 TO 1.5 METER ABOVE ASTRONOMICAL TIDES IS LIKELY TO INUNDATE OVER LOW LYING AREAS OF BANGLADESH COAST BETWEEN SITAKUND AND UTTAR JALDI AT THE TIME OF LANDFALL.

ACCORDING TO SATELLITE IMAGERY, INTENSITY OF THE SYSTEM IS T3.5. THE MAXIMUM SUSTAINED SURFACE WIND (MSW) IS 55 KNOTS GUSTING TO 65 KNOTS. THE ESTIMATED CENTRAL PRESSURE IS ABOUT 984 HPA. SEA CONDITION IS PHENOMENAL AROUND THE SYSTEM CENTRE. A BUOY LOCATED NEAR LATITUDE 17.5° N AND LONGITUDE 89.0°E REPORTED MEAN

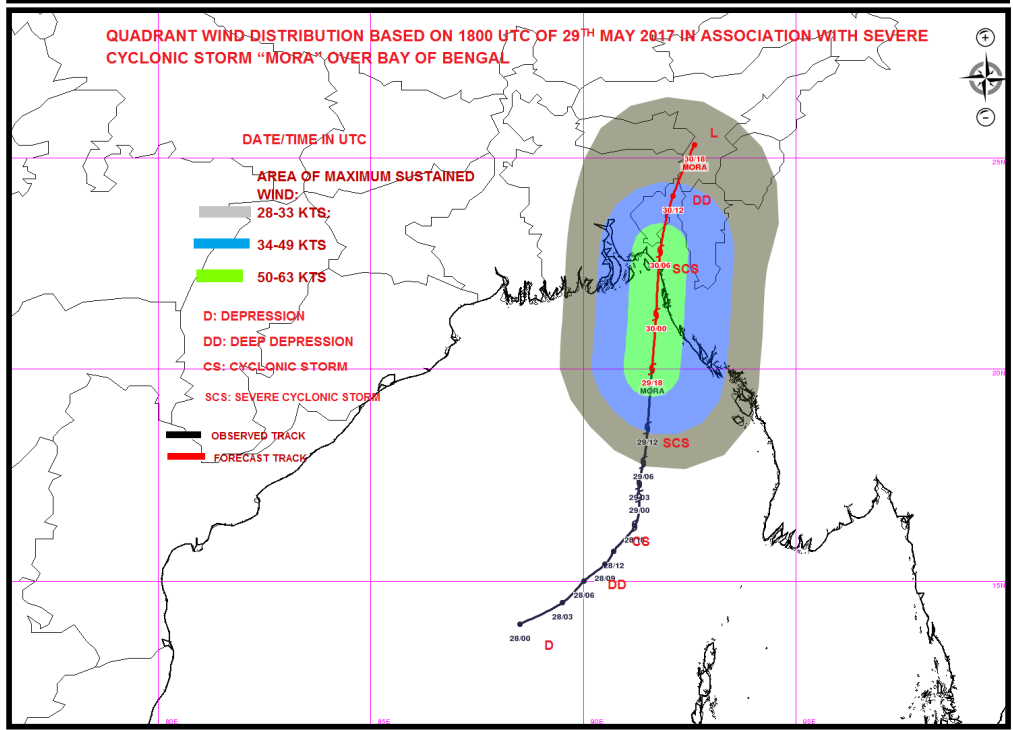
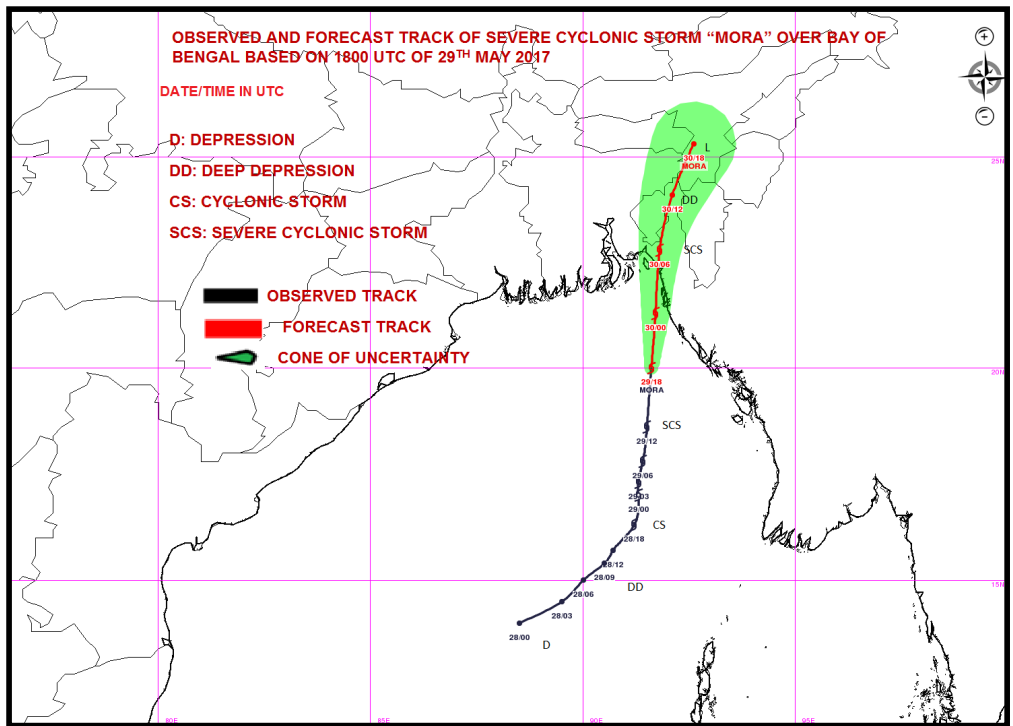
**Contact: Phone: (91) 11-24652484 FAX: (91) 11-24623220 e-mail :cwdhq2008@gmail.com**

SEA LEVEL PRESSURE (MSLP) OF 1002.2 HPA AND MSW 240/16 KNOTS. ANOTHER BUOY LOCATED NEAR LATITUDE 16.5° N AND LONGITUDE 88.0°E REPORTED MEAN SEA LEVEL PRESSURE (MSLP) OF 1001.3 HPA AND MSW 220/18 KNOTS. THE MULTI-SATELLITE DERIVED WINDS SUGGEST INCREASE IN INTENSITY OF THE SYSTEM.

THE CONVECTION HAS FURTHER ORGANISED AND SHOWS CURVED BAND PATTERN. BROKEN LOW/MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION OVER BAY OF BENGAL BETWEEN LATITUDE 14.0°N TO 20.0°N LONGITUDE 86.0°E TO 93.0°E. MINIMUM CTT IS AROUND – 90.0°C. THE SEA SURFACE TEMPERATURE AROUND THE SYSTEM CENTRE IS 30-31°C. THE OCEAN THERMAL ENERGY IS ABOUT 100 KJ/CM<sup>2</sup>. THE VERTICAL WIND SHEAR IS MODERATE TO HIGH AROUND THE SYSTEM CENTRE AND IS AROUND 15-20 KTS, VORTICITY IS AROUND 200 X10<sup>-5</sup> S<sup>-1</sup>. LOWER LEVEL CONVERGENCE IS OF THE ORDER OF 40 X10<sup>-5</sup> S<sup>-1</sup>. UPPER LEVEL DIVERGENCE IS ALSO OF THE ORDER OF 30-40X10<sup>-5</sup> S<sup>-1</sup> AROUND THE SYSTEM CENTRE. THE UPPER TROPOSPHERIC RIDGE AT 200 HPA LEVEL RUNS ALONG 17.0°N IN ASSOCIATION WITH ANTI-CYCLONIC CIRCULATION TO THE NORTHEAST OF SYSTEM CENTRE. THE SYSTEM IS MOVING NORTH-NORTHEASTWARDS AS IT LAYS WESTERN PERIPHERY OF THIS ANTI-CYCLONIC CIRCULATION. IT WOULD CONTINUE TO MOVE SO FOR NEXT 24-36 HOURS AND THEREAFTER EASTERLY COMPONENT OF THE MOVEMENT WILL INCREASE GRADUALLY UNDER THE INFLUENCE OF THE TROUGH IN WESTERLY OVER EASTERN INDIA. CURRENTLY SYSTEM IS BEING STARRED BY THE DEEP LAYER WIND OF 200-850 HPA. THE MEAN DEEP LAYER WIND BETWEEN 200-850 HPA IS 170°/7 KNOTS. THE ANIMATION OF TOTAL PERCEPTIBLE WATER IMAGERY INDICATES CONTINUOUS WARM AND MOIST AIR ADVECTION FROM SOUTHEAST SECTOR. THE LATEST MICROWAVE IMAGERY FROM SSMIS AT 1200 UTC OF 29<sup>TH</sup> INDICATES DEEP CONVECTIVE BANDING WRAPPING TOWARDS THE CENTRE FROM SOUTHEAST.

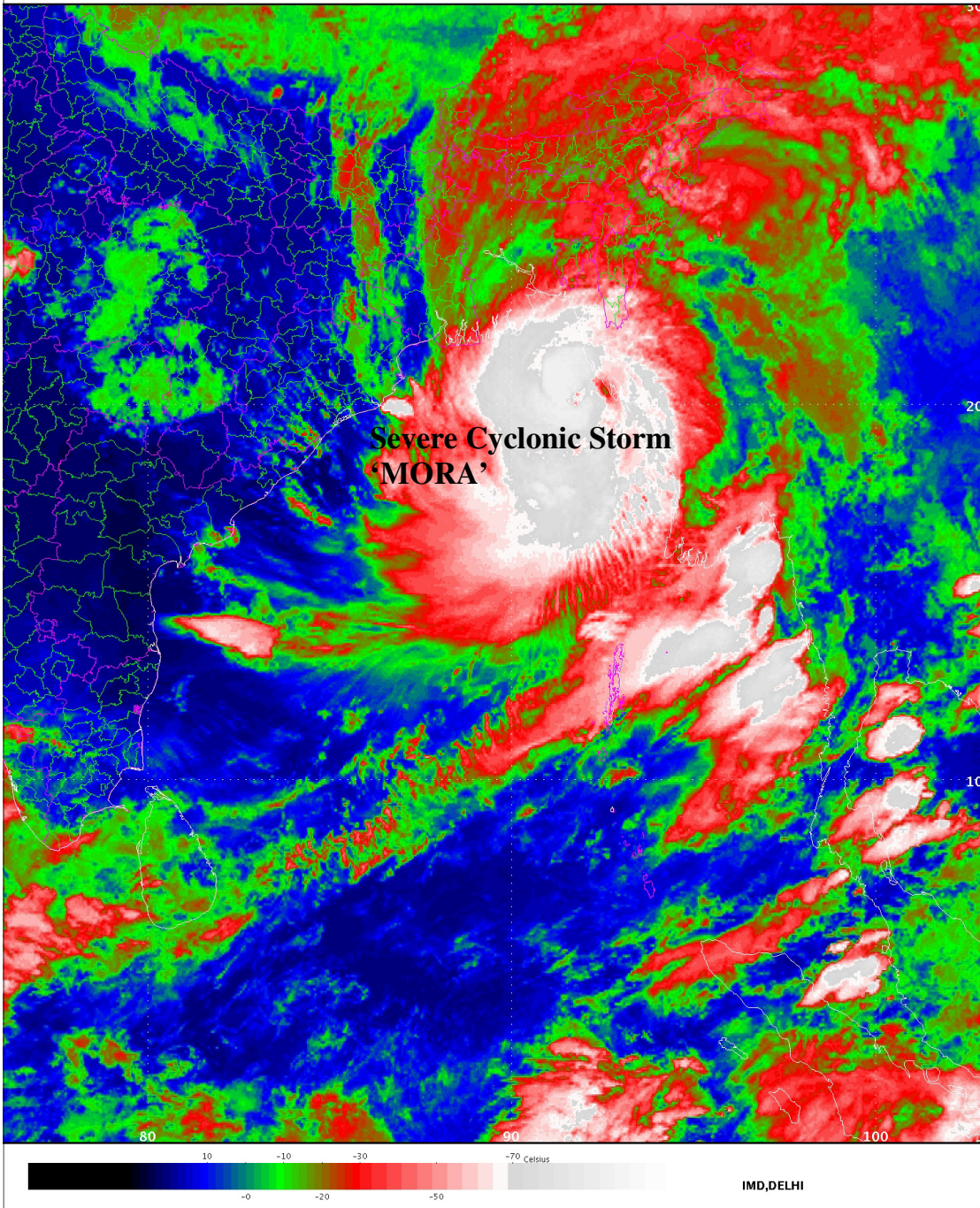
MADDEN JULIAN OSCILLATION INDEX LIES IN PHASE 3 WITH AMPLITUDE MORE THAN 1. IT WOULD CONTINUE IN PHASE 3 WITH AMPLITUDE MORE THAN 1 DURING NEXT 3 DAYS. CURRENT ENVIRONMENTAL CONDITIONS ARE SUPPORTING FOR FURTHER SLIGHT INTENSIFICATION AND NORTH-NORTHEASTWARDS MOVEMENT OF THE SYSTEM. DYNAMICAL STATISTICAL MODELS ALSO SUGGEST FURTHER INTENSIFICATION OF THE SYSTEM. CONSIDERING THE MOVEMENT, MOST OF THE MODELS ARE UNANIMOUS ABOUT NORTH-NORTHEASTWARD MOVEMENT DURING NEXT 24 HRS.

(SHAMBU RAVINDREN)  
SCIENTIST 'B'  
RSMC, NEW DELHI



SAT :INSAT-3D  
IMG\_TIR1\_TEMP 10.8 um  
SECTOR BAYOFBENGAL Mercator (NHC LUT)

29-05-2017/21:30 GMT  
30-05-2017/03:00 IST





**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 CYCLONE ADVISORY**  
**RSMC – TROPICAL CYCLONES, NEW DELHI**

**TROPICAL STORM ‘MORA’ ADVISORY NO. TWELVE ISSUED AT 0300 UTC OF 30<sup>TH</sup>  
MAY 2017 BASED ON 0000 UTC CHARTS OF 30<sup>TH</sup> MAY 2017**

THE SEVERE CYCLONIC STORM ‘MORA’ OVER NORTHEAST BAY OF BENGAL MOVED FURTHER NORTH- NORTHEASTWARD DURING PAST 06 HOURS WITH A SPEED OF 20 KMPH, AND LAY CENTRED AT 0000 UTC OF TODAY, THE 30TH MAY, 2017 OVER NORTHEAST BAY OF BENGAL NEAR LATITUDE 21.1°N AND LONGITUDE 91.8°E, ABOUT 40 KM SOUTH-SOUTHWEST OF COX’S BAZAR(41992) AND 130 KM SOUTH OF CHITTAGONG(41978). IT IS VERY LIKELY TO MOVE NORTH-NORTHEASTWARDS AND CROSS BANGLADESH COAST NEAR CHITTAGONG BY TODAY, THE 30TH MAY 2017 FORENOON.

OBSERVED AND FORECAST TRACK POSITIONS AND INTENSITY OF THE SYSTEM ARE GIVEN BELOW:

DATE/TIME(UTC)	POSITION (LAT. °N/ LONG. °E)	MAXIMUM SUSTAINED SURFACE WIND SPEED (KMPH)	CATEGORY OF CYCLONIC DISTURBANCE
30.05.2017/0000	21.1/91.8	105-115 GUSTING TO 125	SEVERE CYCLONIC STORM
30.05.2017/0600	22.6/91.9	100-110 GUSTING TO 120	SEVERE CYCLONIC STORM
30.05.2017/1200	24.0/92.2	55-65 GUSTING TO 75	DEEP DEPRESSION
30.05.2017/1800	25.3/92.8	25-35 GUSTING TO 45	WELL MARKED LOW

**STORM SURGE GUIDANCE:** THE STORM SURGE OF HEIGHT OF ABOUT 1 TO 1.5 METER ABOVE ASTRONOMICAL TIDES IS LIKELY TO INUNDATE OVER LOW LYING AREAS OF BANGLADESH COAST BETWEEN SITAKUND AND UTTAR JALDI AT THE TIME OF LANDFALL.

ACCORDING TO SATELLITE IMAGERY, INTENSITY OF THE SYSTEM IS T3.5. THE MAXIMUM SUSTAINED SURFACE WIND (MSW) IS 55 KNOTS GUSTING TO 65 KNOTS. THE ESTIMATED CENTRAL PRESSURE IS ABOUT 984 HPA. SEA CONDITION IS PHENOMENAL AROUND THE SYSTEM CENTRE. COX’S BAZAR REPORTED MEAN SEA LEVEL PRESSURE (MSLP) OF 978.5 HPA AND MSW

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

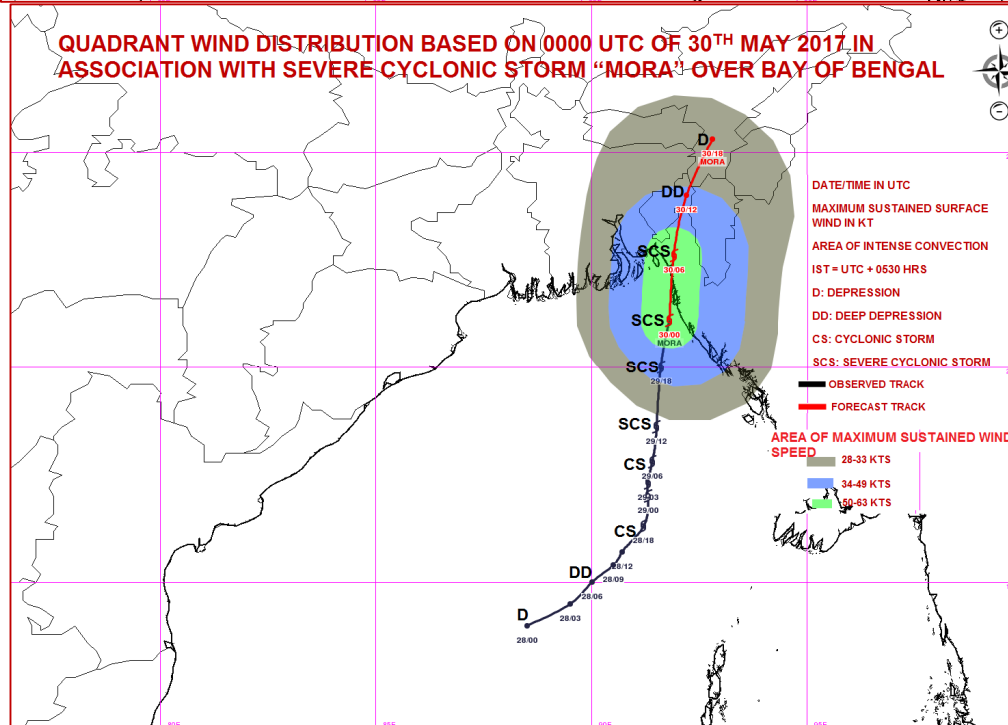
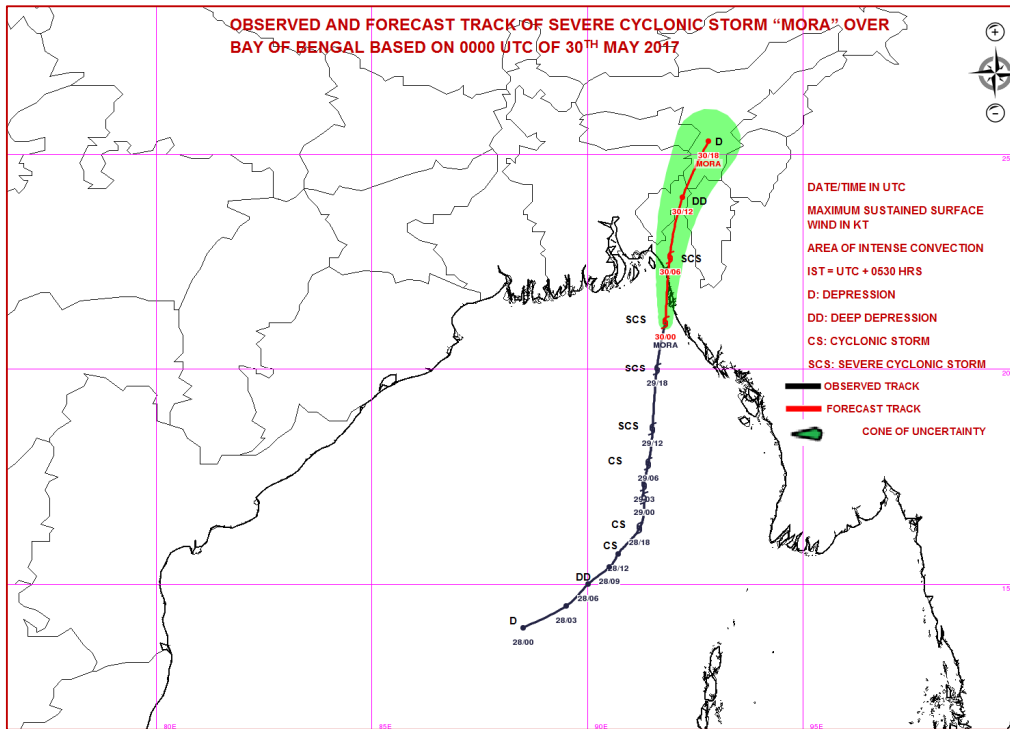
240/25 KNOTS. CHITTAGONG MSLP OF 990.0 HPA AND MSW 360/13 KNOTS. THE SEVERE CYCLONIC STORM IS NOW MONITORED BY COX'S BAZAR RADAR. THE CURRENT POSITION IS MAINLY BASED ON COX'S BAZAR RADAR ESTIMATE. COX'S BAZAR RADAR SHOWN A WELL DEFINED SPIRAL BAND STRUCTURE.

THE CONVECTION SHOWS CURVED BAND PATTERN. BROKEN LOW/MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION OVER BAY OF BENGAL BETWEEN LATITUDE 17.0°N TO 22.5°N AND LONGITUDE 89.0°E TO 94.0°E. MINIMUM CTT IS AROUND -90.0°C. THE SEA SURFACE TEMPERATURE AROUND THE SYSTEM CENTRE IS 30-31°C. THE OCEAN THERMAL ENERGY IS ABOUT 100 KJ/CM<sup>2</sup>. THE VERTICAL WIND SHEAR IS LOW AROUND THE SYSTEM CENTRE AND IS AROUND 5-10 KTS. VORTICITY HAS INCREASED IN PAST 12 HOURS AND IS AROUND 250 X10<sup>-5</sup> S<sup>-1</sup>. LOWER LEVEL CONVERGENCE HAS ALSO INCREASED IN PAST 12 HOURS AND IS OF THE ORDER OF 60 X10<sup>-5</sup> S<sup>-1</sup>. UPPER LEVEL DIVERGENCE IS OF THE ORDER OF 50X10<sup>-5</sup> S<sup>-1</sup> AROUND THE SYSTEM CENTRE. THE UPPER TROPOSPHERIC RIDGE AT 200 HPA LEVEL RUNS ALONG 20.0°N IN ASSOCIATION WITH ANTI-CYCLONIC CIRCULATION TO THE EAST OF SYSTEM CENTRE. THE SYSTEM IS MOVING NORH-NORTHEASTWARDS AS IT LAYS WESTERN PERIPHERY OF THIS ANTI-CYCLONIC CIRCULATION. IT WOULD CONTINUE TO MOVE SO FOR NEXT 24 HOURS AND THEREAFTER EASTERLY COMPONENT OF THE MOVEMENT WILL INCREASE GRADUALLY UNDER THE INFLUENCE OF THE TROUGH IN WESTERLY OVER EASTERN INDIA. CURRENTLY SYSTEM IS BEING STARRED BY THE DEEP LAYER WIND OF 200-850 HPA. THE ANIMATION OF TOTAL PERCEPTIBLE WATER IMAGERY INDICATES CONTINUOUS WARM AND MOIST AIR ADVECTION FROM SOUTHEAST SECTOR.

MADDEN JULIAN OSCILLATION INDEX LIES IN PHASE 3 WITH AMPLITUDE MORE THAN 1. IT WOULD CONTINUE IN PHASE 3 WITH AMPLITUDE MORE THAN 1 DURING NEXT 3 DAYS. CURRENT ENVIRONMENTAL CONDITIONS ARE SUPPORTING NORTH-NORTHEASTWARDS MOVEMENT OF THE SYSTEM AND LANDFALL NEAR CHITTAGONG WITHIN FEW HOURS.

(NARESH KUMAR)  
SCIENTIST 'D'  
RSMC, NEW DELHI





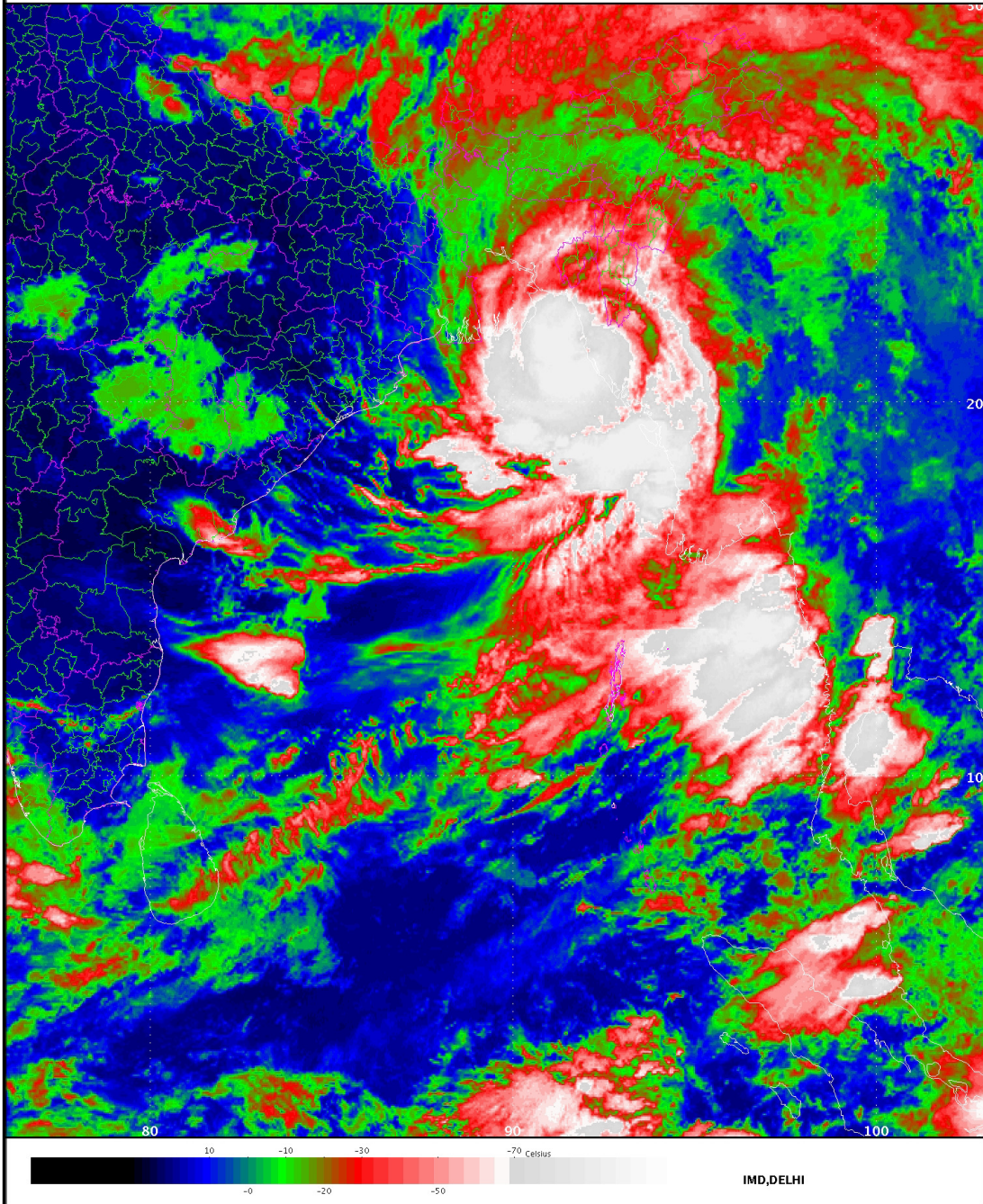
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30-05-2017/01:30 GMT

IMG\_TIR1\_TEMP 10.8 um

30-05-2017/07:00 IST

SECTOR BAYOFBENGAL Mercator (NHC LUT)



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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 CYCLONE ADVISORY**  
**RSMC – TROPICAL CYCLONES, NEW DELHI**

**TROPICAL STORM 'MORA' ADVISORY NO. THIRTEEN ISSUED AT 0600 UTC OF 30<sup>TH</sup>  
MAY 2017 BASED ON 0300 UTC CHARTS OF 30<sup>TH</sup> MAY 2017**

THE SEVERE CYCLONIC STORM 'MORA' OVER NORTHEAST BAY OF BENGAL MOVED FURTHER NORTH- NORTHEASTWARD DURING PAST 06 HOURS WITH A SPEED OF 28 KMPH AND LAY CENTRED AT 0300 UTC OF TODAY, THE 30TH MAY, 2017 OVER BANGLADESH COAST NEAR LATITUDE 21.8°N AND LONGITUDE 91.9°E, ABOUT 50 KM SOUTH OF CHITTAGONG(41978) AND CLOSE TO KUTUBDIA ISLAND(41989). LATEST OBSERVATIONS INDICATE THAT IT CROSSED BANGLADESH COAST NEAR LATITUDE 21.95°N AND LONGITUDE 91.9°E, ABOUT 30 KM SOUTH OF CHITTAGONG BETWEEN 0200 AND 0400 UTC AND LAY CENTRED AT 0930 HOURS IST OF TODAY, THE 30TH MAY, 2017 OVER COASTAL BANGLADESH NEAR LATITUDE 22.0°N AND LONGITUDE 91.9°E AS A SEVERE CYCLONIC STORM.

IT IS VERY LIKELY TO CONTINUE TO MOVE NORTH-NORTHEASTWARDS TOWARDS NORTHEASTERN STATES AND WEAKEN INTO A CYCLONIC STORM DURING NEXT SIX HOURS AND INTO A DEEP DEPRESSION IN SUBSEQUENT SIX HRS.

OBSERVED AND FORECAST TRACK POSITIONS AND INTENSITY OF THE SYSTEM ARE GIVEN BELOW:

DATE/TIME(UTC)	POSITION (LAT. °N/ LONG. °E)	MAXIMUM SUSTAINED SURFACE WIND SPEED (KMPH)	CATEGORY OF CYCLONIC DISTURBANCE
30.05.2017/0300	21.8/91.9	105-115 GUSTING TO 125	SEVERE CYCLONIC STORM
30.05.2017/0600	22.6/92.1	100-110 GUSTING TO 120	SEVERE CYCLONIC STORM
30.05.2017/1200	24.0/92.4	55-65 GUSTING TO 75	DEEP DEPRESSION
30.05.2017/1800	25.3/92.9	30-40 GUSTING TO 50	DEPRESSION

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

**STORM SURGE GUIDANCE:** THE STORM SURGE OF HEIGHT OF ABOUT 1 TO 1.5 METER ABOVE ASTRONOMICAL TIDES IS LIKELY TO INUNDATE OVER LOW LYING AREAS OF BANGLADESH COAST BETWEEN SITAKUND AND UTTAR JALDI AT THE TIME OF LANDFALL.

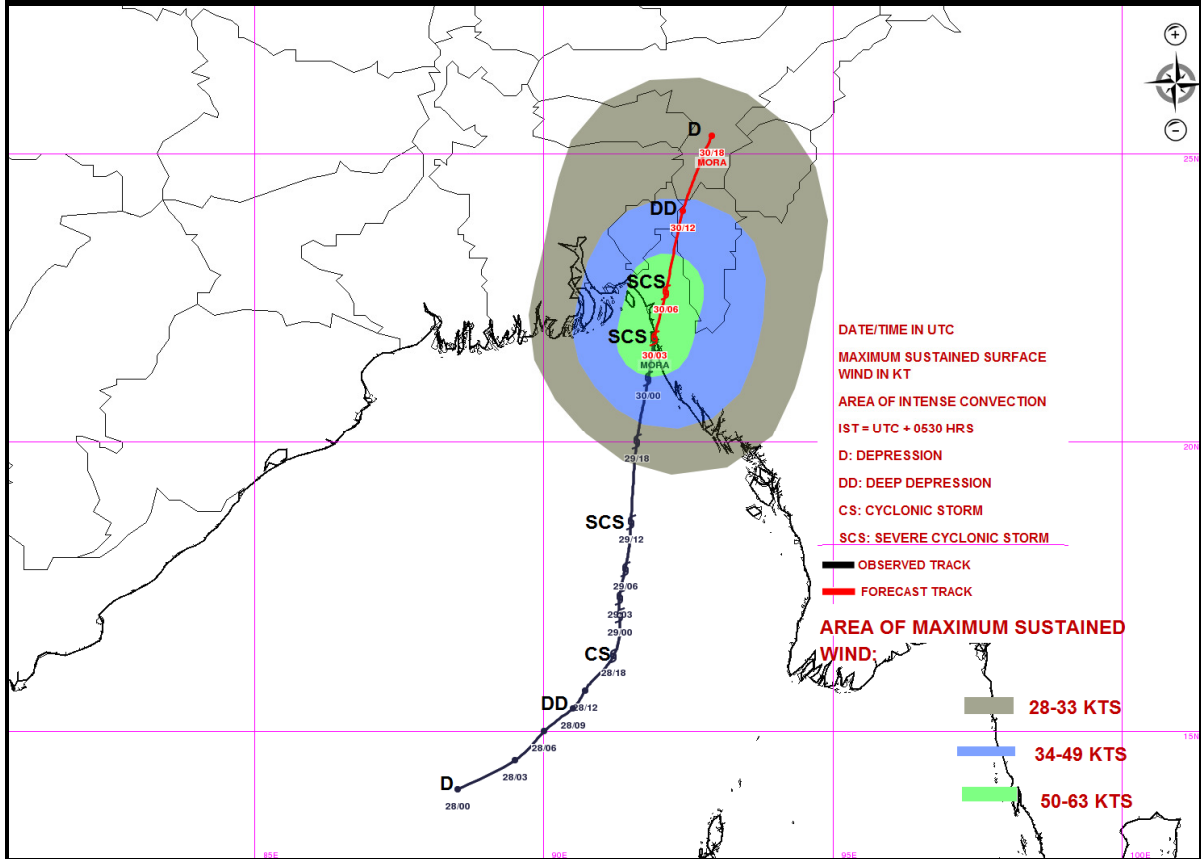
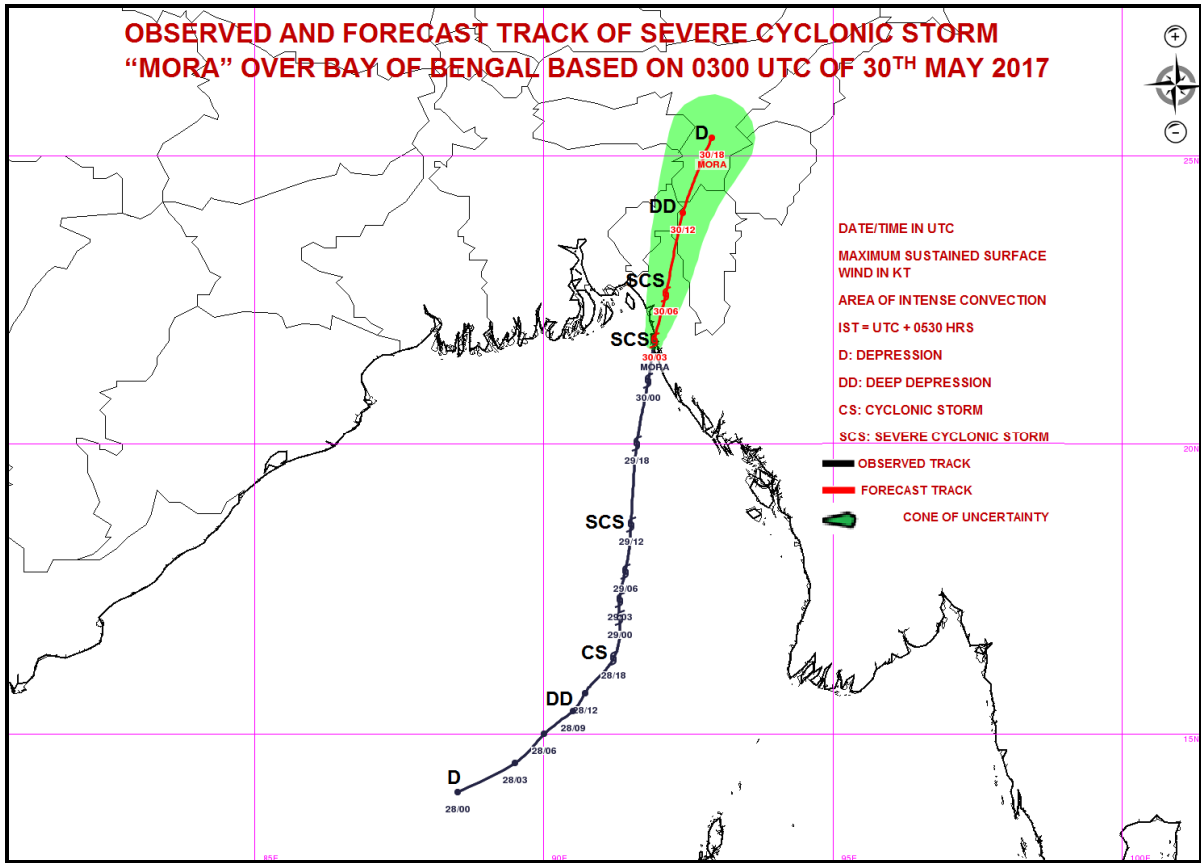
ACCORDING TO SATELLITE IMAGERY, INTENSITY OF THE SYSTEM IS T3.5. THE MAXIMUM SUSTAINED SURFACE WIND (MSW) IS 60 KNOTS GUSTING TO 70 KNOTS. THE ESTIMATED CENTRAL PRESSURE IS ABOUT 978 HPA. SEA CONDITION IS PHENOMENAL AROUND THE SYSTEM CENTRE.

THE CONVECTION SHOWS CURVED BAND PATTERN. BROKEN LOW/MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION OVER BAY OF BENGAL BETWEEN LATITUDE 18.0<sup>0</sup>N TO 24.0<sup>0</sup>N AND LONGITUDE 89.0<sup>0</sup>E TO 95.5<sup>0</sup>E. MINIMUM CTT IS AROUND -90.0<sup>0</sup>C. THE SEA SURFACE TEMPERATURE AROUND THE SYSTEM CENTRE IS 30-31<sup>0</sup>C. THE OCEAN THERMAL ENERGY IS ABOUT 100 KJ/CM<sup>2</sup>. THE VERTICAL WIND SHEAR IS LOW AROUND THE SYSTEM CENTRE AND IS AROUND 10-15 KTS, VORTICITY IS AROUND 250 X10<sup>-5</sup> S<sup>-1</sup>. LOWER LEVEL CONVERGENCE IS OF THE ORDER OF 60 X10<sup>-5</sup> S<sup>-1</sup> AND UPPER LEVEL DIVERGENCE IS OF THE ORDER OF 30X10<sup>-5</sup> S<sup>-1</sup> AROUND THE SYSTEM CENTRE. THE UPPER TROPOSPHERIC RIDGE AT 200 HPA LEVEL RUNS ALONG 22.0<sup>0</sup>N IN ASSOCIATION WITH ANTI-CYCLONIC CIRCULATION TO THE EAST OF SYSTEM CENTRE. THE SYSTEM IS MOVING NORH-NORTHEASTWARDS AS IT LAYS WESTERN PERIPHERY OF THIS ANTI-CYCLONIC CIRCULATION. IT WOULD CONTINUE TO MOVE SO FOR NEXT 24 HOURS AND THEREAFTER EASTERLY COMPONENT OF THE MOVEMENT WILL INCREASE GRADUALLY UNDER THE INFLUENCE OF THE TROUGH IN WESTERLY OVER EASTERN INDIA. CURRENTLY SYSTEM IS BEING STARRED BY THE DEEP LAYER WIND OF 200-850 HPA.

MADDEN JULIAN OSCILLATION INDEX LIES IN PHASE 3 WITH AMPLITUDE MORE THAN 1. IT WOULD CONTINUE IN PHASE 3 WITH AMPLITUDE MORE THAN 1 DURING NEXT 2 DAYS. CURRENT ENVIRONMENTAL CONDITIONS ARE SUPPORTING NORTH-NORTHEASTWARDS MOVEMENT OF THE SYSTEM.

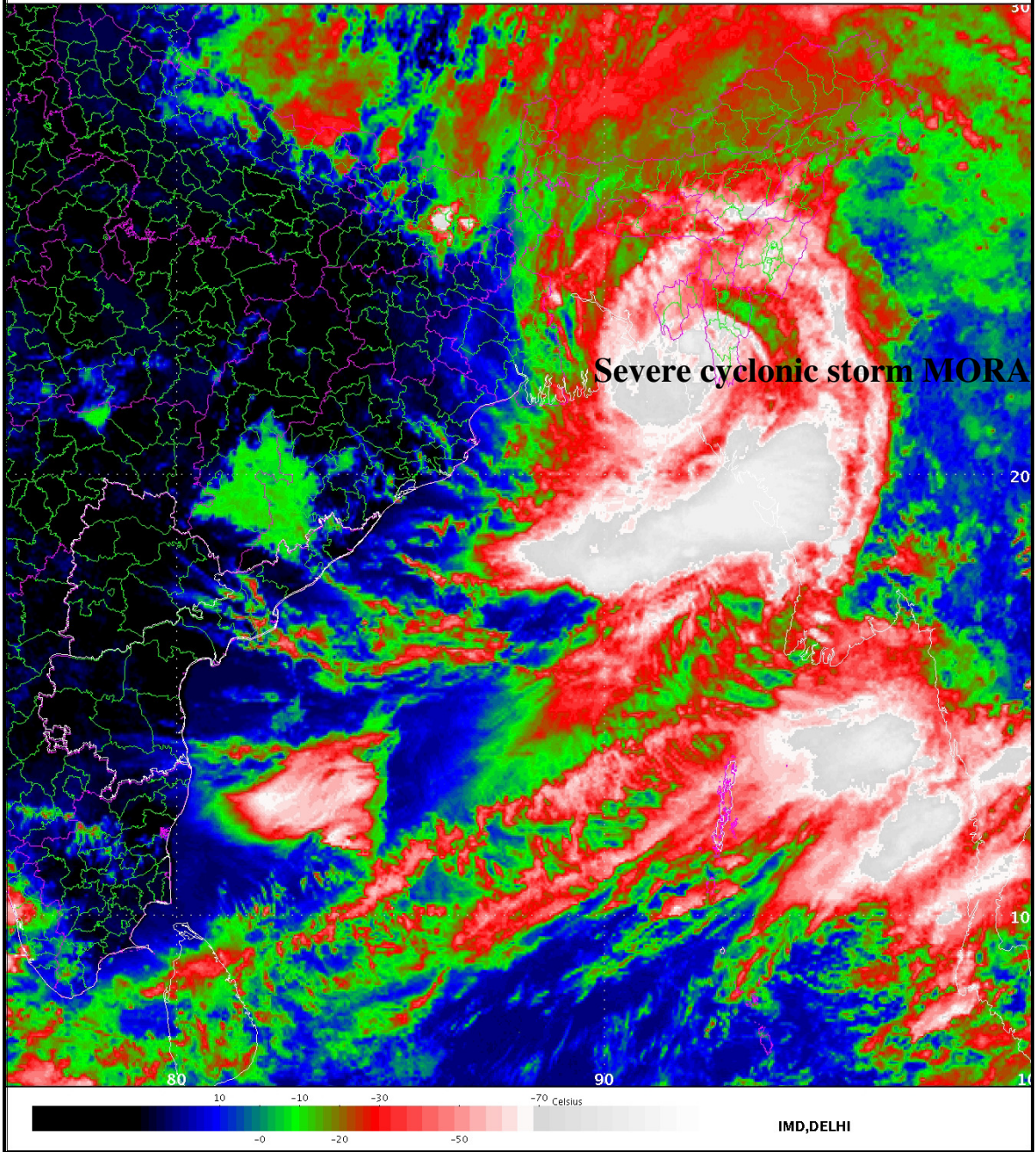
(NARESH KUMAR)  
SCIENTIST 'D'  
RSMC, NEW DELHI

**OBSERVED AND FORECAST TRACK OF SEVERE CYCLONIC STORM  
"MORA" OVER BAY OF BENGAL BASED ON 0300 UTC OF 30<sup>TH</sup> MAY 2017**



SAT :INSAT-3D  
IMG\_TIR1\_TEMP 10.8 um  
SECTOR BAYOFBENGAL Mercator (NHC LUT)

30-05-2017/05:00 GMT  
30-05-2017/10:30 IST



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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 CYCLONE ADVISORY**  
**RSMC – TROPICAL CYCLONES, NEW DELHI**

**TROPICAL STORM 'MORA' ADVISORY NO. FOURTEEN ISSUED AT 0900 UTC OF 30<sup>TH</sup>  
MAY 2017 BASED ON 0600 UTC CHARTS OF 30<sup>TH</sup> MAY 2017**

THE SEVERE CYCLONIC STORM 'MORA' OVER BANGLADESH COAST MOVED FURTHER NORTH- NORTHEASTWARD DURING PAST 06 HOURS WITH A SPEED OF 32 KMPH AND LAY CENTRED AT 0600 UTC OF TODAY, THE 30<sup>TH</sup> MAY, 2017 OVER BANGLADESH NEAR LATITUDE 22.8°N AND LONGITUDE 92.0°E, ABOUT 60 KM NORTH-NORTHEAST OF CHITTAGONG(41978) AND 120 KM SOUTHWEST OF AIZAWAL(42727). THE SYSTEM IS VERY LIKELY TO CONTINUE TO MOVE NORTH-NORTHEASTWARDS AND WEAKEN INTO A CYCLONIC STORM DURING NEXT SIX HOURS AND INTO A DEEP DEPRESSION IN SUBSEQUENT SIX HRS.

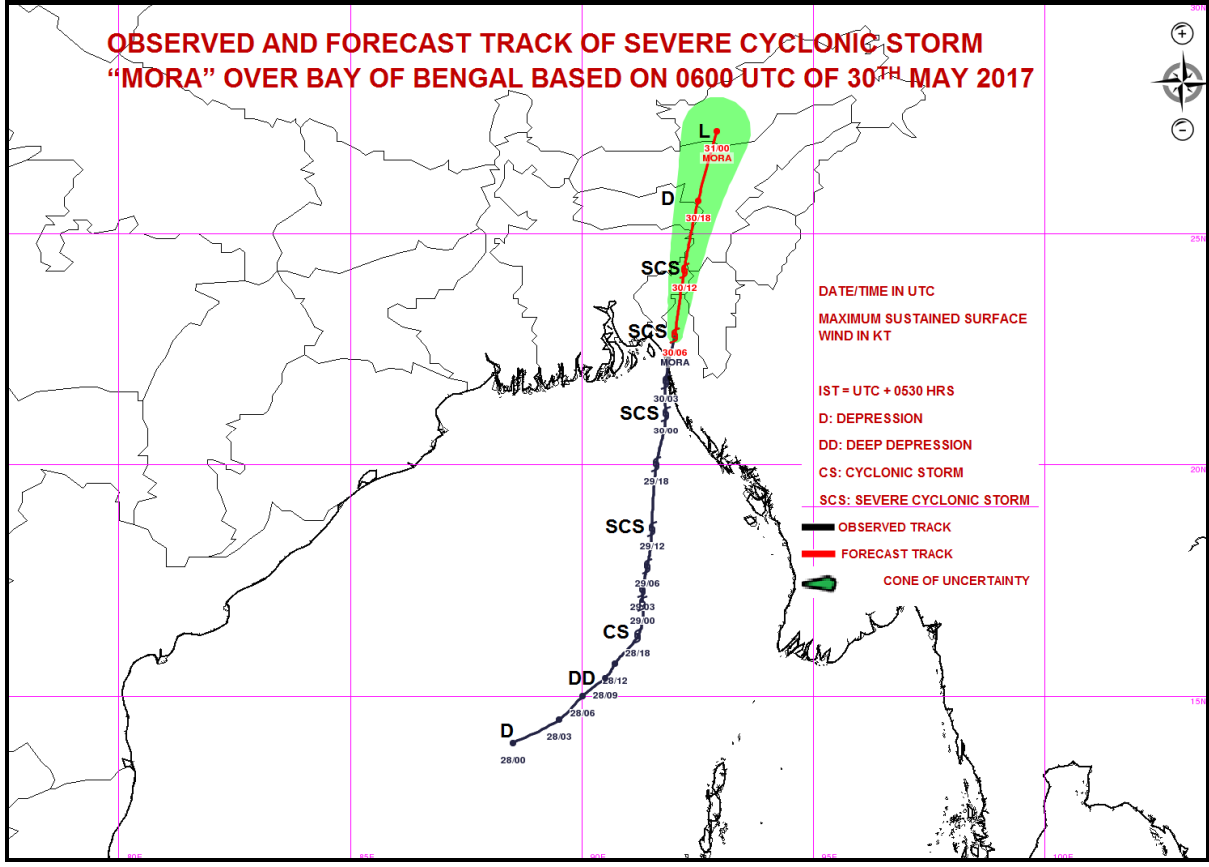
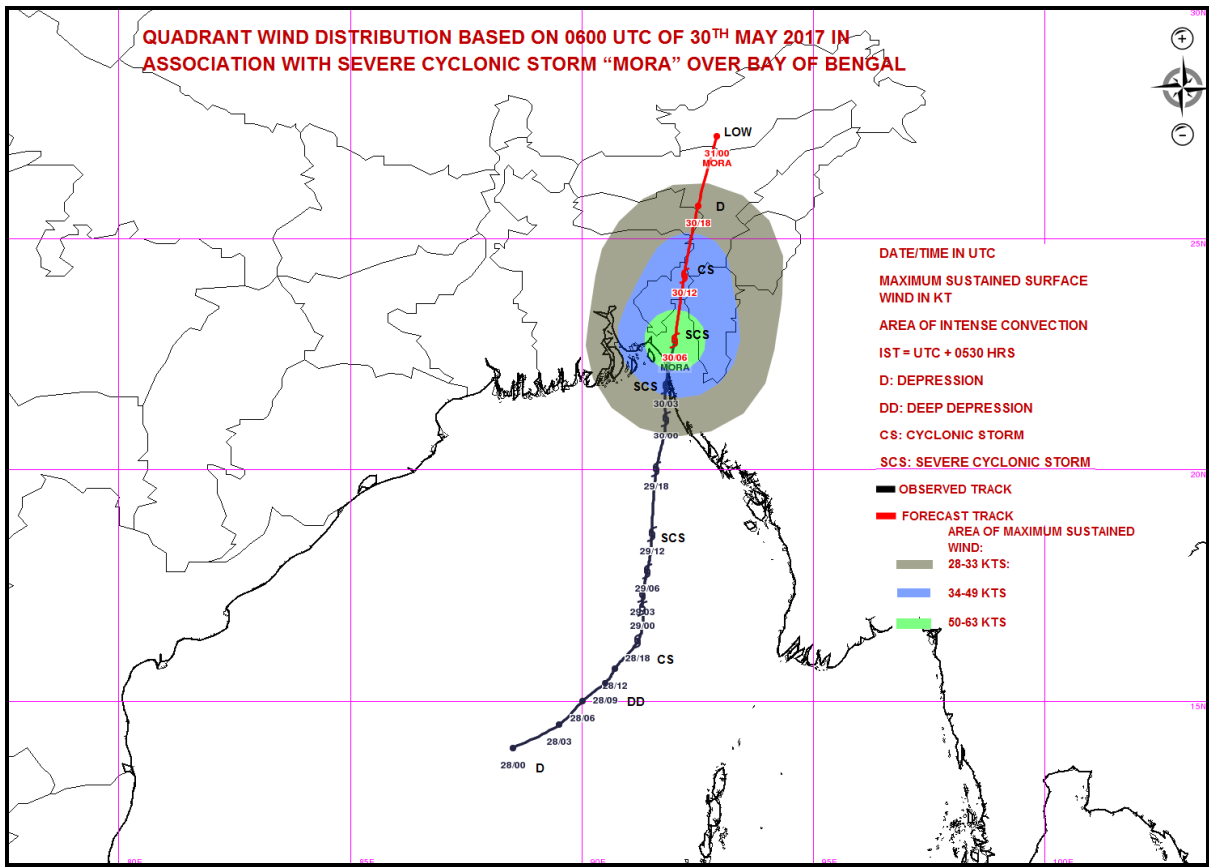
OBSERVED AND FORECAST TRACK POSITIONS AND INTENSITY OF THE SYSTEM ARE GIVEN BELOW:

DATE/TIME(UTC)	POSITION (LAT. °N/ LONG. °E)	MAXIMUM SUSTAINED SURFACE WIND SPEED (KMPH)	CATEGORY OF CYCLONIC DISTURBANCE
30.05.2017/0600	22.8/92.0	100-110 GUSTING TO 120	SEVERE CYCLONIC STORM
30.05.2017/1200	24.2/92.2	60-70 GUSTING TO 80	CYCLONIC STORM
30.05.2017/1800	25.7/92.5	35-45 GUSTING TO 55	DEPRESSION
31.05.2017/0000	27.2/92.9	15-25 GUSTING TO 35	LOW

THE MAXIMUM SUSTAINED SURFACE WIND (MSW) IS 55 KNOTS GUSTING TO 65 KNOTS. THE ESTIMATED CENTRAL PRESSURE IS ABOUT 982 HPA. THE CONVECTION SHOWS CURVED BAND PATTERN AND GRADUAL DISORGANISATION DUE TO INTERACTION OF THE SYSTEM WITH OROGRAPHICAL DOMINATED LAND SURFACE. IT IS EXPECTED TO WEAKEN RAPIDLY DUE TO THIS INTERACTION. BROKEN LOW/MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION OVER BAY OF BENGAL BETWEEN LATITUDE 18.0°N TO 24.0°N AND LONGITUDE 89.0°E TO 96.5°E. MINIMUM CTT IS AROUND -90.0°C.

(NARESH KUMAR)  
SCIENTIST 'D'  
RSMC, NEW DELHI

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





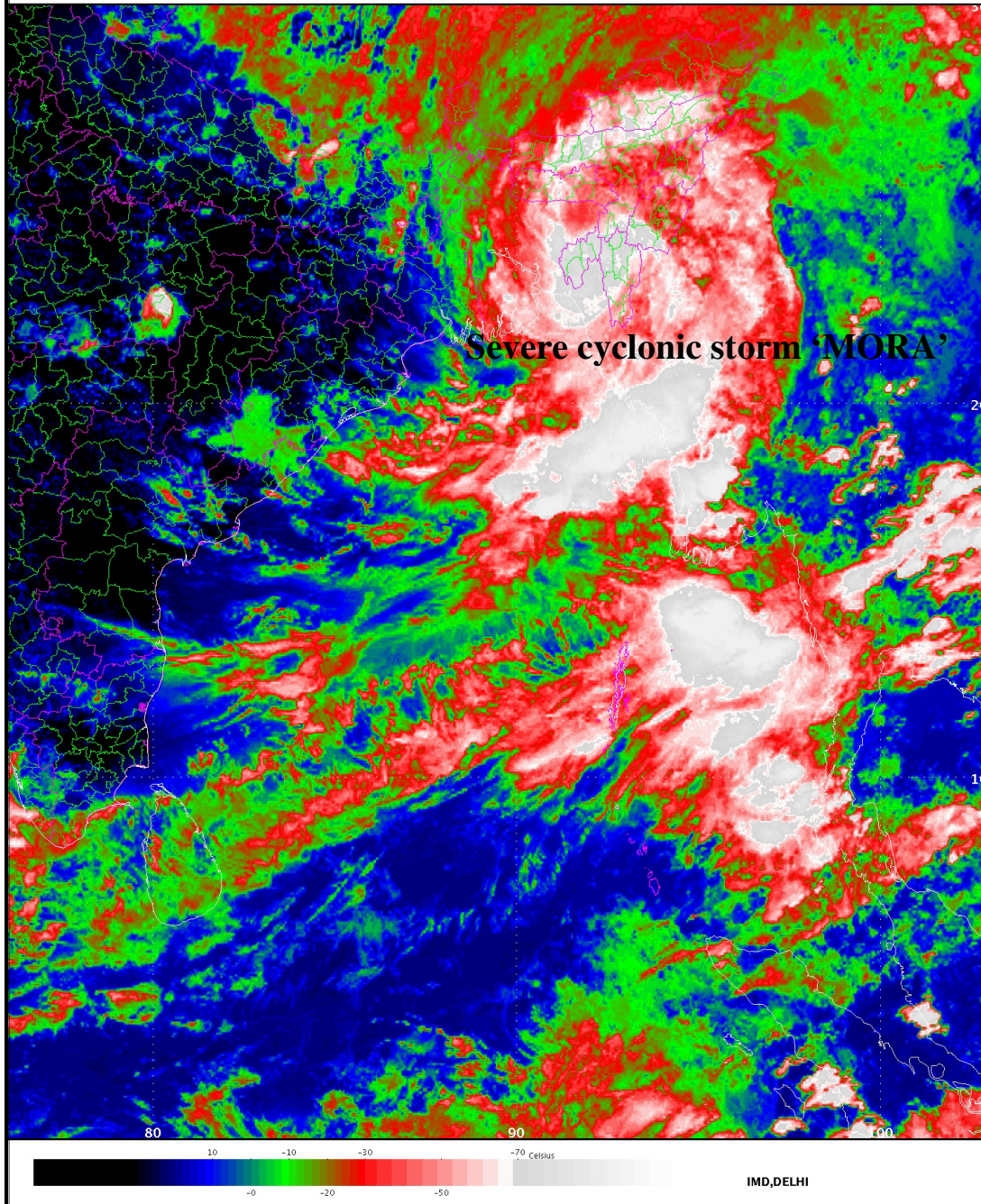
SAT :INSAT-3D

30-05-2017/08:00 GMT

IMG\_TIR1\_TEMP 10.8 um

30-05-2017/13:30 IST

SECTOR BAYOFBENGAL Mercator (NHC LUT)



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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 CYCLONE ADVISORY**

**RSMC – TROPICAL CYCLONES, NEW DELHI**

**TROPICAL STORM 'MORA' ADVISORY NO. FIFTEEN ISSUED AT 1200 UTC OF 30<sup>TH</sup> MAY 2017 BASED  
ON 0900 UTC CHARTS OF 30<sup>TH</sup> MAY 2017**

THE SEVERE CYCLONIC STORM 'MORA' OVER BANGLADESH COAST MOVED FURTHER NORTH-NORTHEASTWARD DURING PAST 06 HOURS WITH A SPEED OF 33 KMPH, WEAKENED INTO A CYCLONIC STORM AND LAY CENTRED AT 0900 UTC OF TODAY, THE 30<sup>TH</sup> MAY, 2017 OVER BANGLADESH AND ADJOINING MIZORAM & TRIPURA NEAR LATITUDE 23.6°N AND LONGITUDE 92.1°E, ABOUT 60 KM WEST OF AIZAWAL(42727) AND 140 KM SOUTHWEST OF SILCHAR(42619).

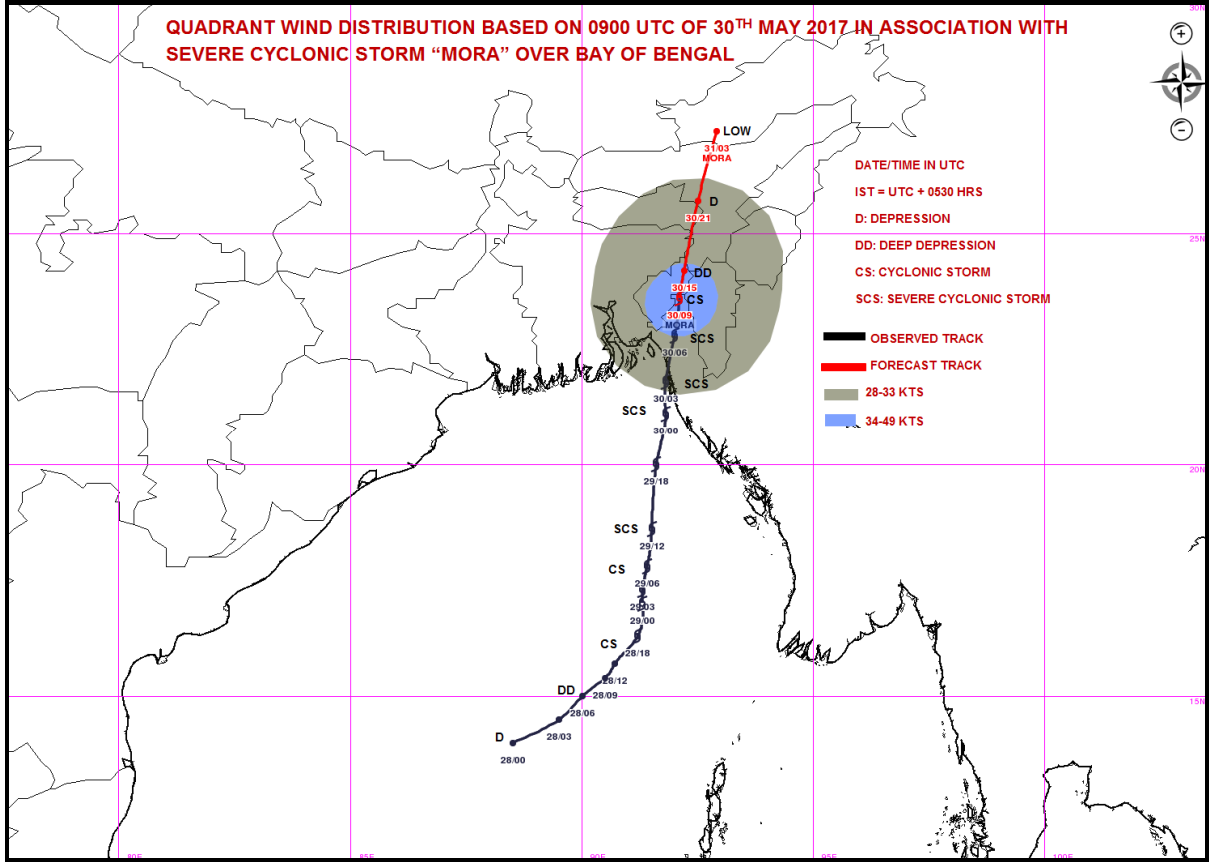
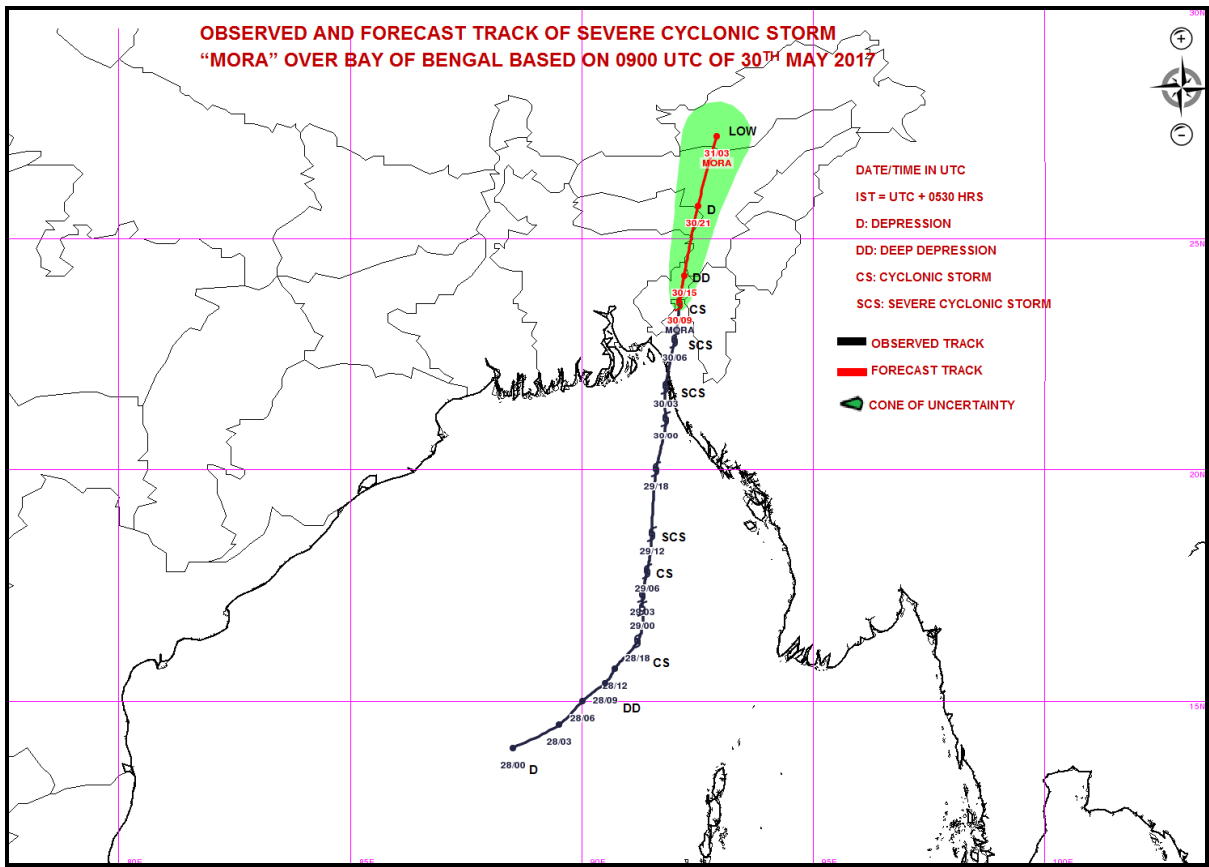
THE SYSTEM IS VERY LIKELY TO CONTINUE TO MOVE NORTH-NORTHEASTWARDS AND WEAKEN FURTHER INTO A DEEP DEPRESSION DURING NEXT THREE HOURS AND INTO A DEPRESSION IN SUBSEQUENT SIX HRS.

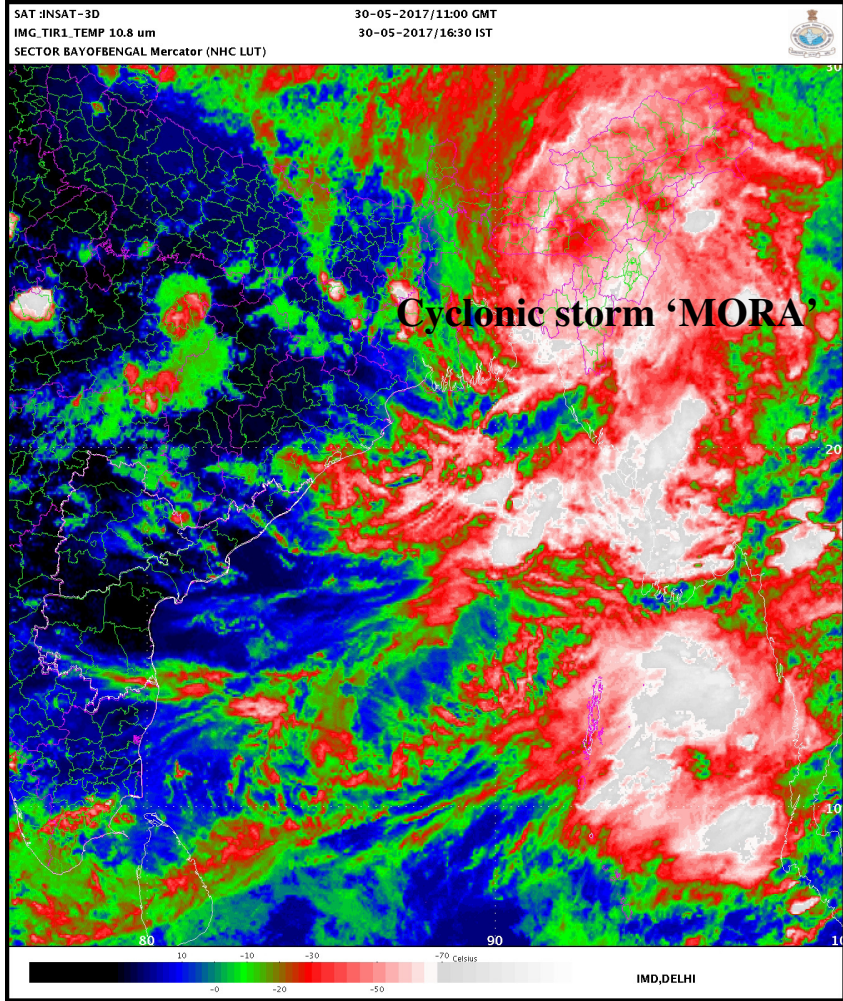
OBSERVED AND FORECAST TRACK POSITIONS AND INTENSITY OF THE SYSTEM ARE GIVEN BELOW:

DATE/TIME(UTC)	POSITION (LAT. °N/ LONG. °E)	MAXIMUM SUSTAINED SURFACE WIND SPEED (KMPH)	CATEGORY OF CYCLONIC DISTURBANCE
30.05.2017/0900	23.6/92.1	65-75 GUSTING TO 85	CYCLONIC STORM
30.05.2017/1200	24.2/92.2	50-60 GUSTING TO 70	DEEP DEPRESSION
30.05.2017/1800	25.7/92.5	35-45 GUSTING TO 55	DEPRESSION
31.05.2017/0000	27.2/92.9	15-25 GUSTING TO 35	LOW

THE MAXIMUM SUSTAINED SURFACE WIND (MSW) IS 35 KNOTS GUSTING TO 45 KNOTS. THE ESTIMATED CENTRAL PRESSURE IS ABOUT 988 HPA. THE CONVECTION SHOWS CURVED BAND PATTERN AND GRADUAL DISORGANISATION DUE TO INTERACTION OF THE SYSTEM WITH OROGRAPHICAL DOMINATED LAND SURFACE. IT IS EXPECTED TO WEAKEN RAPIDLY DUE TO THIS INTERACTION. BROKEN LOW/MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION OVER MEGHALAYA, ASSAM, ARUNACHAL PRADESH, NAGALAND, MANIPUR, MIZORAM & TRIPURA, MYANMAR AND SOUTHEAST BANGLADESH. MINIMUM CTT IS AROUND -80.0°C.

(NARESH KUMAR)  
SCIENTIST 'D'  
RSMC, NEW DELHI







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

**DEMS-RSMC SPECIAL TROPICAL CYCLONES NEW DELHI DATED 30-05-2017**

**TROPICAL WEATHER OUTLOOK FOR NORTH INDIAN OCEAN (THE BAY OF BENGAL AND ARABIAN SEA) VALID FOR NEXT 72 HOURS ISSUED AT 1400 UTC OF 30<sup>TH</sup> MAY 2017 BASED ON 1200 UTC OF 30<sup>TH</sup> MAY 2017**

THE CYCLONIC STORM '**MORA**' OVER BANGLADESH AND ADJOINING MIZORAM & TRIPURA MOVED FURTHER NORTH-NORTHEASTWARD DURING PAST 06 HOURS WITH A SPEED OF 26 KMPH, WEAKENED INTO A DEEP DEPRESSION AND LAY CENTRED AT 1200 UTC OF TODAY, THE 30<sup>TH</sup> MAY, 2017 OVER TRIPURA & NEIGHBOURHOOD NEAR LATITUDE 24.2°N AND LONGITUDE 92.2°E, ABOUT 20 KM EAST-SOUTHEAST OF KAILASHAHAR(42618) AND 80 KM SOUTHWEST OF SILCHAR(42619).

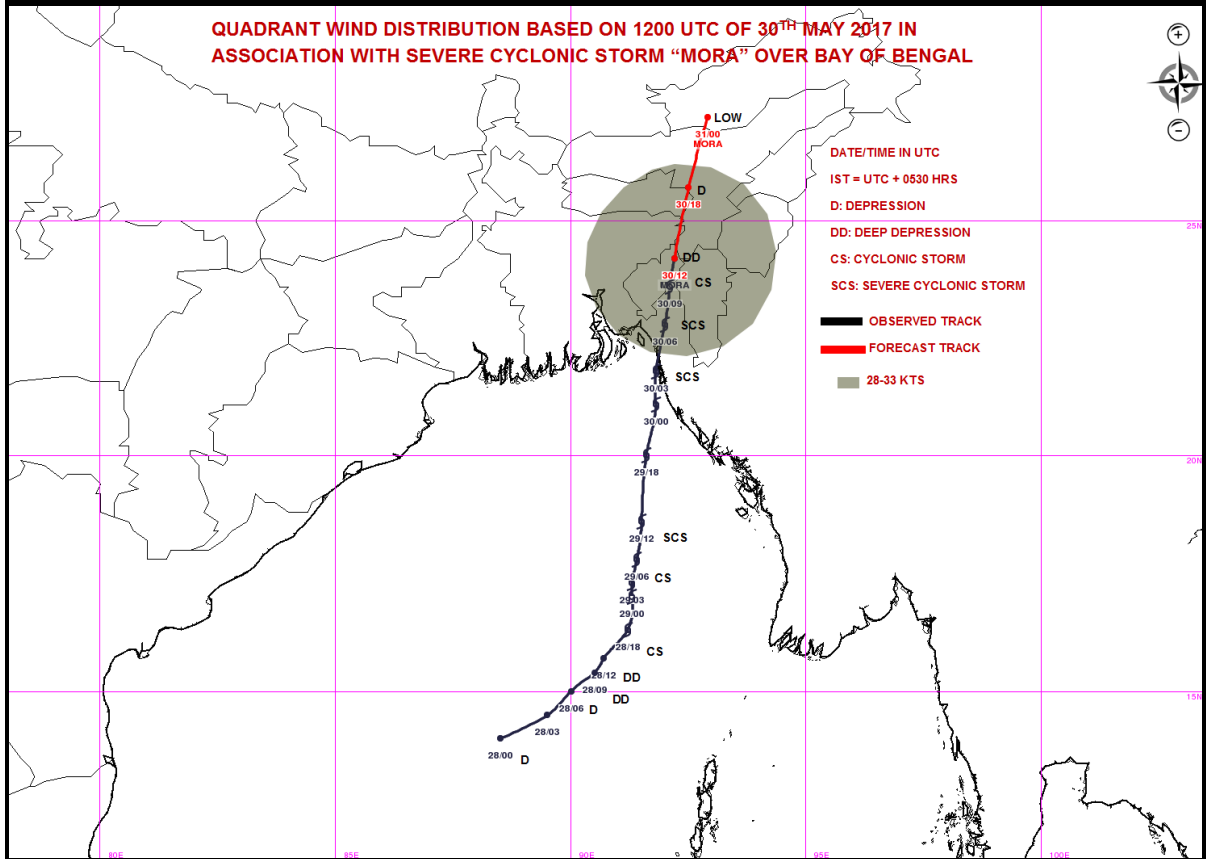
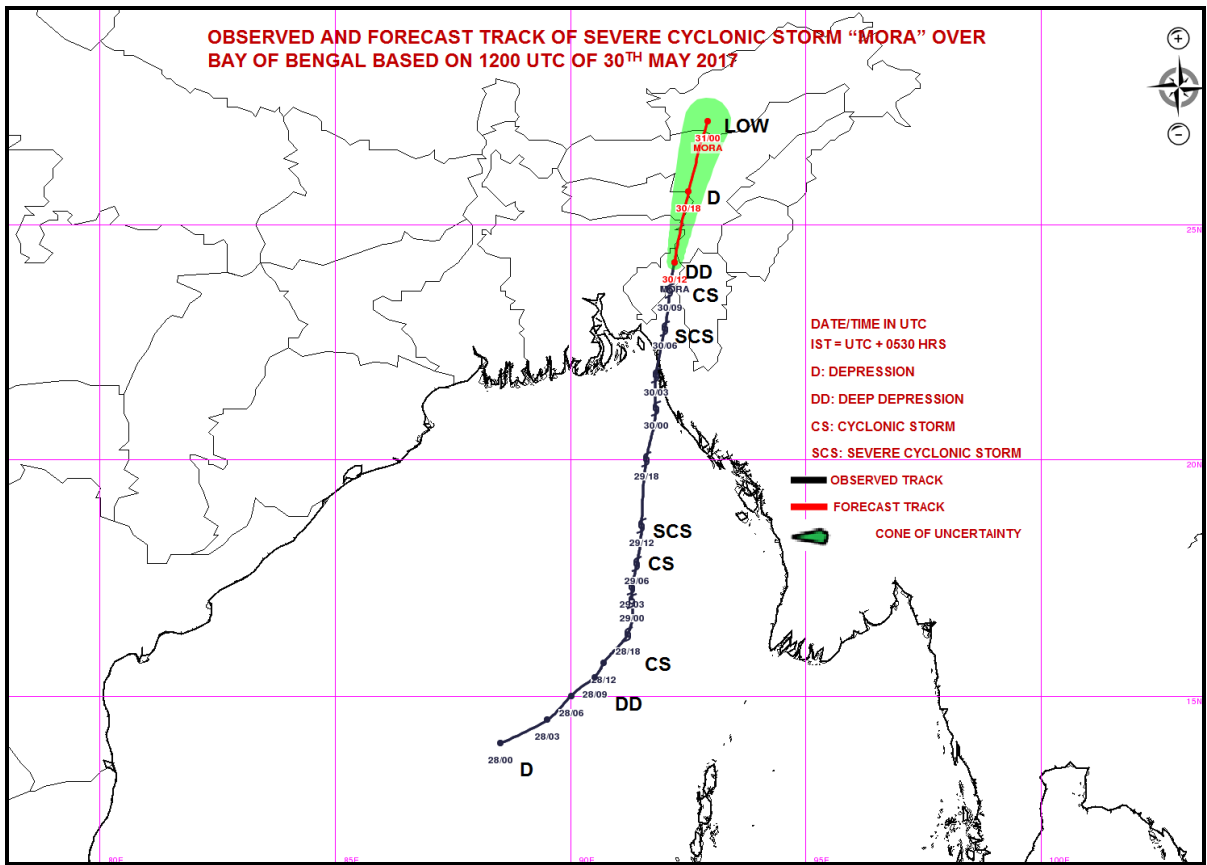
THE SYSTEM IS VERY LIKELY TO CONTINUE TO MOVE NORTH-NORTHEASTWARDS AND WEAKEN FURTHER INTO A DEPRESSION DURING NEXT SIX HOURS AND INTO A LOW PRESSURE AREA IN SUBSEQUENT SIX HRS.

OBSERVED AND FORECAST TRACK POSITIONS AND INTENSITY OF THE SYSTEM ARE GIVEN BELOW:

DATE/TIME(UTC)	POSITION (LAT. °N/ LONG. °E)	MAXIMUM SUSTAINED SURFACE WIND SPEED (KMPH)	CATEGORY OF CYCLONIC DISTURBANCE
30.05.2017/1200	24.2/92.2	50-60 GUSTING TO 70	DEEP DEPRESSION
30.05.2017/1800	25.7/92.5	35-45 GUSTING TO 55	DEPRESSION
31.05.2017/0000	27.2/92.9	15-25 GUSTING TO 35	LOW

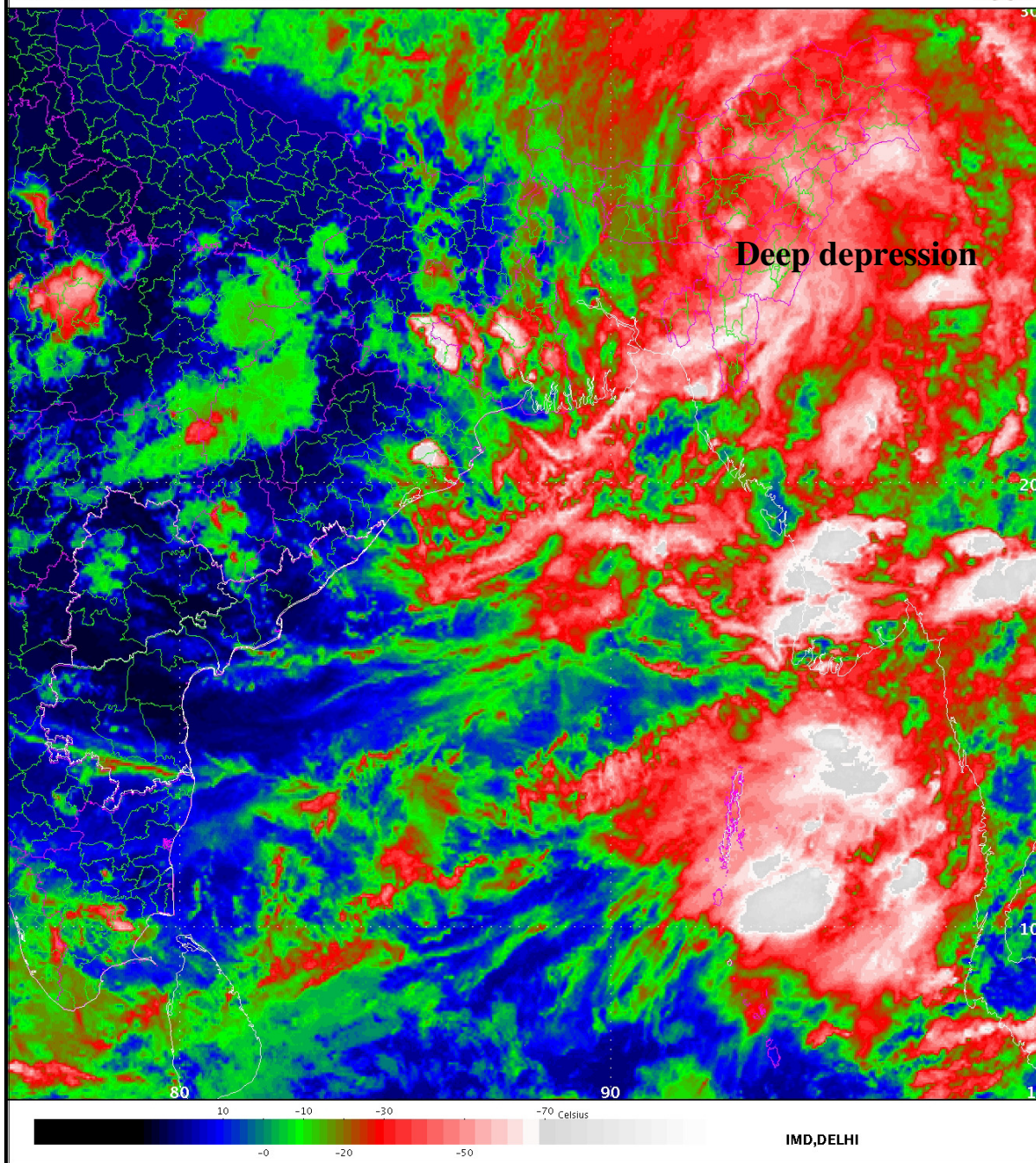
THE MAXIMUM SUSTAINED SURFACE WIND (MSW) IS 30 KNOTS GUSTING TO 40 KNOTS. THE ESTIMATED CENTRAL PRESSURE IS ABOUT 990 HPA. THE CONVECTION SHOWS GRADUAL DISORGANISATION DUE TO INTERACTION OF THE SYSTEM WITH OROGRAPHICAL DOMINATED LAND SURFACE. IT IS EXPECTED TO WEAKEN RAPIDLY DUE TO THIS INTERACTION. BROKEN LOW/MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION OVER MEGHALAYA, ASSAM, ARUNACHAL PRADESH, NAGALAND, MANIPUR, MIZORAM & TRIPURA, MYANMAR AND EAST BANGLADESH. MINIMUM CTT IS AROUND - 80.0°C.

(NARESH KUMAR)  
SCIENTIST 'D'  
RSMC, NEW DELHI



SAT :INSAT-3D  
IMG\_TIR1\_TEMP 10.8 um  
SECTOR BAYOFBENGAL Mercator (NHC LUT)

30-05-2017/13:00 GMT  
30-05-2017/18:30 IST



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



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

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**TROPICAL WEATHER OUTLOOK FOR NORTH INDIAN OCEAN (THE BAY OF BENGAL AND ARABIAN SEA) VALID FOR NEXT 72 HOURS ISSUED AT 1930 UTC OF 30<sup>TH</sup> MAY 2017 BASED ON 1800 UTC OF 30<sup>TH</sup> MAY 2017**

THE DEEP DEPRESSION OVER TRIPURA & NEIGHBOURHOOD MOVED FURTHER NORTH-NORTHEASTWARD DURING PAST 06 HOURS WITH A SPEED OF 35 KMPH, WEAKENED INTO A DEPRESSION AND LAY CENTRED AT 1800 UTC OF TODAY, THE 30<sup>TH</sup> MAY, 2017 OVER SOUTH MEGHALAYA & NEIGHBOURHOOD.

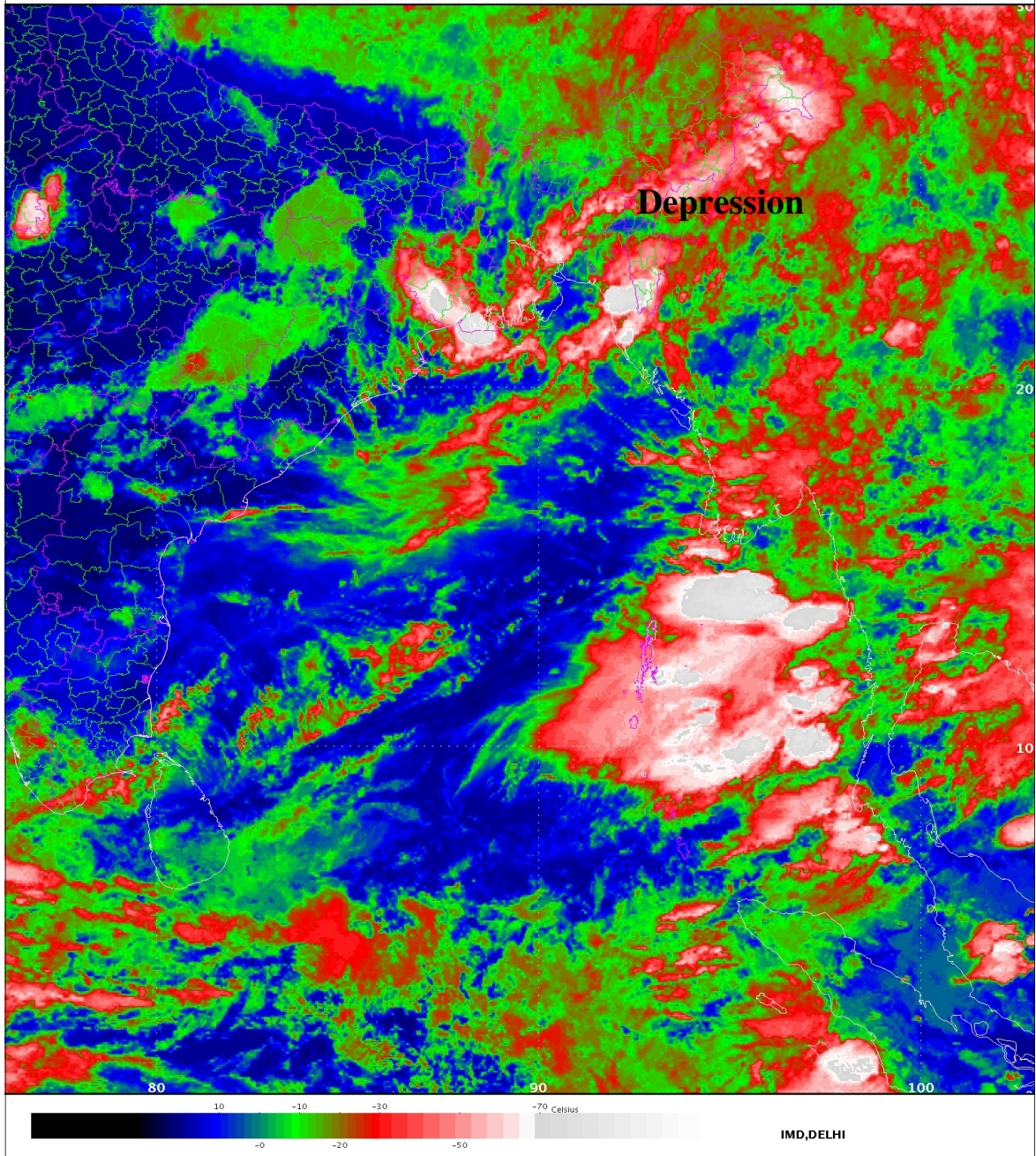
THE SYSTEM IS VERY LIKELY TO CONTINUE TO MOVE NORTH-NORTHEASTWARDS AND WEAKEN FURTHER INTO A LOW PRESSURE AREA DURING NEXT SIX HRS.

(AKHIL SRIVASTAVA)  
SCIENTIST 'B'  
RSMC, NEW DELHI



SAT :INSAT-3D  
IMG\_TIR1\_TEMP 10.8 um  
SECTOR BAYOFBENGAL Mercator (NHC LUT)

30-05-2017/18:30 GMT  
31-05-2017/00:00 IST



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



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

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**TROPICAL WEATHER OUTLOOK FOR NORTH INDIAN OCEAN (THE BAY OF BENGAL AND ARABIAN SEA) VALID FOR NEXT 72 HOURS ISSUED AT 0200 UTC OF 31<sup>ST</sup> MAY 2017 BASED ON 0000 UTC OF 31<sup>ST</sup> MAY 2017**

THE DEPRESSION OVER SOUTH MEGHALAYA & NEIGHBOURHOOD MOVED NORTHEASTWARD DURING PAST SIX HOURS AND WEAKENED FURTHER. IT LAY AS A WELL MARKED LOW PRESSURE AREA OVER NAGALAND & NEIGHBOURHOOD AT 0000 UTC OF TODAY, THE 31ST MAY, 2017.

**THIS IS THE LAST BULLETIN OF THIS SYSTEM.**

(AKHIL SRIVASTAVA)  
SCIENTIST 'B'  
RSMC, NEW DELHI

SAT :INSAT-3D  
IMG\_TIR1\_TEMP 10.8 um  
SECTOR BAYOFBENGAL Mercator (NHC LUT)

31-05-2017/01:00 GMT  
31-05-2017/06:30 IST

