



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

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**DEMS-RSMC TROPICAL CYCLONES NEW DELHI DATED 07.06.2015**

**SPECIAL TROPICAL WEATHER OUTLOOK FOR NORTH INDIAN OCEAN (THE BAY OF BENGAL AND ARABIAN SEA) VALID FOR NEXT 24 HOURS ISSUED AT 0600 UTC OF 07<sup>TH</sup> JUNE, 2015 BASED ON 0300 UTC OF 07<sup>TH</sup> JUNE, 2015.**

LATEST SATELLITE IMAGERY AND OBSERVATIONS INDICATE THAT A DEPRESSION HAS FORMED OVER EASTCENTRAL ARABIAN SEA AND LAY CENTRED AT 0300 UTC OF TODAY, THE 7<sup>TH</sup> JUNE, 2015 NEAR LATITUDE 14.5<sup>0</sup> NORTH AND LONGITUDE 68.5<sup>0</sup> EAST, ABOUT 690 KM SOUTHWEST OF MUMBAI (43003), 740 KM SOUTH-SOUTHWEST OF VERAVAL (42909) AND 1230 KM SOUTHEAST OF MASIRAH ISLAND (41288) (OMAN). IT WOULD MOVE NORTH-NORTHWESTWARDS AND INTENSIFY FURTHER INTO A DEEP DEPRESSION DURING NEXT 24 HRS.

ACCORDING TO SATELLITE IMAGERIES, THE INTENSITY OF THE SYSTEM IS T 1.5. ASSOCIATED BROKEN LOW AND MEDIUM CLOUDS EMBEDDED WITH INTENSE TO VERY INTENSE CONVECTION IS SEEN OVER THE AREA BETWEEN LATITUDE 6.0<sup>0</sup> NORTH & 19.5<sup>0</sup> NORTH, LONGITUDE 63.0<sup>0</sup> EAST & 74.0<sup>0</sup> EAST AND LAKSHADWEEP. THE LOWEST CLOUD TOP TEMPERATURE (CTT) IS ABOUT -70<sup>0</sup> C. MAXIMUM SUSTAINED SURFACE WIND SPEED IS ESTIMATED TO BE ABOUT 20-25 KNOTS GUSTING TO 35 KNOTS AROUND THE SYSTEM CENTRE.. THE STATE OF THE SEA IS ROUGH AROUND THE SYSTEM CENTRE. THE ESTIMATED CENTRAL PRESSURE IS ABOUT 1004 HPA.

**REMARKS:**

THE SEA SURFACE TEMPERATURE IS 30-32°C, OCEAN THERMAL ENERGY IS ABOUT 100-120 KJ/CM<sup>2</sup>, LOW LEVEL CONVERGENCE IS (15-20)X10<sup>5</sup> SECOND<sup>-1</sup>, UPPER LEVEL DIVERGENCE IS ABOUT (20-30)X10<sup>-5</sup>SECOND<sup>-1</sup>, THE LOW LEVEL RELATIVE VORTICITY IS ABOUT (10-20)X10<sup>-5</sup>SECOND<sup>-1</sup>, VERTICAL WIND SHEAR IS MODERATE(20-30 KNOTS). UPPER TROPOSPHERIC RIDGE LIES ALONG 20°N. THERE IS TROUGH IN WESTERLIES IN MIDDLE TROPOSPHERE TO THE WEST OF THE SYSTEM. UNDER THESE CONDITIONS, THE DEPRESSION WOULD MOVE SLOWLY NORTHWARDS/NORTH-NORTHWESTWARDS DURING NEXT 24 HOURS.

BASED ON SYNOPTIC AND ENVIRONMENTAL CONDITIONS AS WELL AS THE NWP MODEL GUIDANCE THE DEPRESSION WOULD INTENSIFY INTO A DEEP DEPRESSION DURING NEXT 24 HOURS.

**THE NEXT BULLETIN WILL BE ISSUED AT 1500 UTC OF 7 JUNE 2015.**

(KAMALJIT RAY)  
SCIENTIST 'E'  
Ph: 011-24631913

TOO/ 07/0600 HRS UTC



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

**DEMS-RSMC TROPICAL CYCLONES NEW DELHI DATED 07.06.2015**

**SPECIAL TROPICAL WEATHER OUTLOOK FOR NORTH INDIAN OCEAN (THE BAY OF BENGAL AND ARABIAN SEA) VALID FOR NEXT 24 HOURS ISSUED AT 1500 UTC OF 07<sup>TH</sup> JUNE, 2015 BASED ON 1200 UTC OF 07<sup>TH</sup> JUNE, 2015.**

LATEST SATELLITE IMAGERY AND OBSERVATIONS INDICATE THAT THE DEPRESSION OVER EASTCENTRAL ARABIAN SEA HAS MOVED NORTH-NORTHWESTWARDS AND LAY CENTRED AT 1200 UTC OF TODAY, THE 7<sup>TH</sup> JUNE, 2015 NEAR LATITUDE 15.8<sup>0</sup> NORTH AND LONGITUDE 68.3<sup>0</sup> EAST, ABOUT 580 KM SOUTHWEST OF MUMBAI (43003), 560 KM SOUTH-SOUTHWEST OF VERAVAL (42909) AND 1150 KM SOUTHEAST OF MASIRAH ISLAND (41288). IT WOULD MOVE NORTH-NORTHWESTWARDS AND INTENSIFY FURTHER INTO A DEEP DEPRESSION DURING NEXT 24 HRS.

ACCORDING TO SATELLITE IMAGERIES, THE INTENSITY OF THE SYSTEM IS T 1.5. ASSOCIATED BROKEN LOW AND MEDIUM CLOUDS EMBEDDED WITH INTENSE TO VERY INTENSE CONVECTION IS SEEN OVER THE AREA BETWEEN LATITUDE 6.0<sup>0</sup> NORTH & 21.5<sup>0</sup> NORTH, LONGITUDE 60.0<sup>0</sup> EAST & 74.0<sup>0</sup> EAST, COASTAL KARNATAKA, EXTREME NORTH KERALA AND LAKSHADWEEP. THE LOWEST CLOUD TOP TEMPERATURE (CTT) IS ABOUT -90<sup>0</sup> C. MAXIMUM SUSTAINED SURFACE WIND SPEED IS ESTIMATED TO BE ABOUT 20-25 KNOTS GUSTING TO 35 KNOTS AROUND THE SYSTEM CENTRE. THE STATE OF THE SEA IS ROUGH AROUND THE SYSTEM CENTRE. THE ESTIMATED CENTRAL PRESSURE IS ABOUT 1003 HPA.

**REMARKS:**

THE SEA SURFACE TEMPERATURE IS 30-32°C, OCEAN THERMAL ENERGY IS ABOUT 100-120 KJ/CM<sup>2</sup>, LOW LEVEL CONVERGENCE IS (15-20) X 10<sup>-5</sup> SECOND<sup>-1</sup>, UPPER LEVEL DIVERGENCE IS ABOUT (20-30)X10<sup>-5</sup> SECOND<sup>-1</sup>, THE LOW LEVEL RELATIVE VORTICITY IS ABOUT (10-15)X10<sup>-5</sup>SECOND<sup>-1</sup>, VERTICAL WIND SHEAR IS MODERATE (20-30 KNOTS). UPPER TROPOSPHERIC RIDGE LIES ALONG 20°N. THERE IS TROUGH IN WESTERLIES IN MIDDLE TROPOSPHERE TO THE WEST OF THE SYSTEM. THE MADDEN-JULIAN OSCILLATION LIES IN PHASE-2 WITH AMPLITUDE > 1 AND IS FAVOURABLE FOR INTENSIFICATION OF THE SYSTEM.

THUS BASED ON ABOVE SYNOPTIC AND ENVIRONMENTAL CONDITIONS, AS WELL AS THE NWP MODEL GUIDANCE, THE DEPRESSION WOULD MOVE SLOWLY NORTH-NORTHWESTWARDS AND INTENSIFY INTO A DEEP DEPRESSION DURING NEXT 24 HOURS.

**THE NEXT BULLETIN WILL BE ISSUED AT 2100 UTC OF 7 JUNE 2015.**

(KAMALJIT RAY)  
SCIENTIST 'E'  
Ph: 011-24631913

TOO/ 07/1500 HRS UTC



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

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**DEMS-RSMC TROPICAL CYCLONES NEW DELHI DATED 08.06.2015**

**SPECIAL TROPICAL WEATHER OUTLOOK FOR NORTH INDIAN OCEAN (THE BAY OF BENGAL AND ARABIAN SEA) VALID FOR NEXT 24 HOURS ISSUED AT 2100 UTC OF 07<sup>TH</sup> JUNE, 2015 BASED ON 1800 UTC OF 07<sup>TH</sup> JUNE, 2015.**

THE DEPRESSION OVER EASTCENTRAL ARABIAN SEA MOVED NORTH-NORTHWESTWARDS AND LAY CENTRED AT 1800 UTC OF 07 JUNE 2015 NEAR LATITUDE 16.5<sup>0</sup> N AND LONGITUDE 68.0<sup>0</sup> E, ABOUT 590 KM SOUTHWEST OF MUMBAI (43003), 550 KM SOUTH-SOUTHWEST OF VERAVAL (42909) AND 1070 KM EASTSOUTHEAST OF MASIRAH ISLAND (41288). IT WOULD MOVE NORTH-NORTHWESTWARDS AND INTENSIFY FURTHER INTO A DEEP DEPRESSION DURING NEXT 24 HRS

ACCORDING TO SATELLITE IMAGERIES, THE INTENSITY OF THE SYSTEM IS T 1.5. ASSOCIATED BROKEN LOW AND MEDIUM CLOUDS EMBEDDED WITH INTENSE TO VERY INTENSE CONVECTION IS SEEN OVER THE AREA BETWEEN LATITUDE 6.0<sup>0</sup> NORTH & 19.5<sup>0</sup> NORTH, LONGITUDE 63.0<sup>0</sup> EAST & 76.0<sup>0</sup> EAST, COASTAL KARNATAKA AND LAKSHADWEEP. THE LOWEST CLOUD TOP TEMPERATURE (CTT) IS ABOUT -90<sup>0</sup> C. MAXIMUM SUSTAINED SURFACE WIND SPEED IS ESTIMATED TO BE ABOUT 20-25 KNOTS GUSTING TO 35 KNOTS AROUND THE SYSTEM CENTRE. THE STATE OF THE SEA IS ROUGH AROUND THE SYSTEM CENTRE. THE ESTIMATED CENTRAL PRESSURE IS ABOUT 1003 HPA.

**REMARKS:**

THE SEA SURFACE TEMPERATURE IS 30-32°C, OCEAN THERMAL ENERGY IS ABOUT 100-120 KJ/CM<sup>2</sup>, LOW LEVEL CONVERGENCE IS (20-30) X 10<sup>-5</sup> SECOND<sup>-1</sup>, UPPER LEVEL DIVERGENCE IS ABOUT (20-30)X10<sup>-5</sup> SECOND<sup>-1</sup>, THE LOW LEVEL RELATIVE VORTICITY IS ABOUT (15-17)X10<sup>-5</sup>SECOND<sup>-1</sup>, VERTICAL WIND SHEAR IS MODERATE (20-30 KNOTS). UPPER TROPOSPHERIC RIDGE LIES ALONG 20°N. THERE IS TROUGH IN WESTERLIES IN MIDDLE TROPOSPHERE TO THE WEST OF THE SYSTEM. THE MADDEN-JULIAN OSCILLATION LIES IN PHASE-2 WITH AMPLITUDE > 1 AND IS FAVOURABLE FOR INTENSIFICATION OF THE SYSTEM.

ABOVE SYNOPTIC AND ENVIRONMENTAL CONDITIONS, AS WELL AS NWP MODEL GUIDANCE SUGGEST THAT THE DEPRESSION WOULD MOVE SLOWLY NORTH-NORTHWESTWARDS AND INTENSIFY INTO A DEEP DEPRESSION DURING NEXT 24 HOURS.

**THE NEXT BULLETIN WILL BE ISSUED AT 0300 UTC OF 7 JUNE 2015.**

(B.P YADAV)  
SCIENTIST 'E'  
Ph: 011-24631913

TOO/ 07/2000 HRS UTC



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

**DEMS-RSMC TROPICAL CYCLONES NEW DELHI DATED 08.06.2015**

**SPECIAL TROPICAL WEATHER OUTLOOK FOR NORTH INDIAN OCEAN (THE BAY OF BENGAL AND ARABIAN SEA) VALID FOR NEXT 24 HOURS ISSUED AT 0300 UTC OF 08 JUNE, 2015 BASED ON 0000 UTC OF 08 JUNE, 2015.**

THE DEPRESSION OVER EASTCENTRAL ARABIAN SEA MOVED NORTH-NORTHWESTWARDS AND INTENSIFIED INTO A DEEP DEPRESSION AND LAY CENTRED AT 0000 HOURS UTC OF 08 JUNE 2015 NEAR LATITUDE 17.5° N AND LONGITUDE 67.5° E, ABOUT 590 KM WESTSOUTHWEST OF MUMBAI (43003), 480 KM SOUTH-SOUTHWEST OF VERAVAL (42909) AND 970 KM EASTSOUTHEAST OF MASIRAH ISLAND (41288) (OMAN). IT WOULD MOVE NORTH-NORTHWESTWARDS AND INTENSIFY FURTHER INTO A CYCLONIC STORM DURING NEXT 24 HRS.

ACCORDING TO SATELLITE IMAGERIES, THE INTENSITY OF THE SYSTEM IS T 2.0. ASSOCIATED BROKEN LOW AND MEDIUM CLOUDS EMBEDDED WITH INTENSE TO VERY INTENSE CONVECTION IS SEEN OVER THE AREA BETWEEN LATITUDE 5.5° NORTH & 21.0° NORTH, LONGITUDE 62.0° EAST & 76.0° EAST, COASTAL KARNATAKA AND LAKSHADWEEP. THE LOWEST CLOUD TOP TEMPERATURE (CTT) IS ABOUT -93° C. MAXIMUM SUSTAINED SURFACE WIND SPEED IS ESTIMATED TO BE ABOUT 25-30 KNOTS GUSTING TO 40 KNOTS AROUND THE SYSTEM CENTRE. THE STATE OF THE SEA IS VERY ROUGH AROUND THE SYSTEM CENTRE. THE ESTIMATED CENTRAL PRESSURE IS ABOUT 996HPA.

| Date/Time(UTC)  | Position (Lat. °N/ long. °E) | Maximum sustained surface wind speed (kmph) | Category of cyclonic disturbance |
|-----------------|------------------------------|---|----------------------------------|
| 08.06.2015/0000 | 17.5/67.5                    | 50-60 GUSTING TO 70                         | DEEP DEPRESSION                  |
| 08.06.2015/0600 | 17.9/67.3                    | 50-60 GUSTING TO 70                         | DEEP DEPRESSION                  |
| 08.06.2015/1200 | 18.2/67.1                    | 60-70 GUSTING TO 80                         | CYCLONIC STORM                   |
| 08.06.2015/1800 | 18.5/66.8                    | 70-80 GUSTING TO 90                         | CYCLONIC STORM                   |
| 09.06.2015/0000 | 18.8/66.5                    | 80-90 GUSTING TO 105                        | CYCLONIC STORM                   |
| 09.06.2015/1200 | 19.7/66.0                    | 80-90 GUSTING TO 105                        | CYCLONIC STORM                   |
| 10.06.2015/0000 | 20.7/65.2                    | 100-110 GUSTING TO 125                      | SEVERE CYCLONIC STORM            |

**REMARKS:**

THE SEA SURFACE TEMPERATURE IS 30-31°C, OCEAN THERMAL ENERGY IS ABOUT 100-120 KJ/CM<sup>2</sup>, LOW LEVEL CONVERGENCE IS (20-30) X 10<sup>-5</sup> SECOND<sup>-1</sup>, UPPER LEVEL DIVERGENCE IS ABOUT (25-35)X10<sup>-5</sup> SECOND<sup>-1</sup>, THE LOW LEVEL RELATIVE VORTICITY IS ABOUT (20-25)X10<sup>-5</sup>SECOND<sup>-1</sup>, VERTICAL WIND SHEAR IS MODERATE (20-30 KNOTS). UPPER TROPOSPHERIC RIDGE LIES ALONG 20.0°N. THE MADDEN-JULIAN OSCILLATION LIES IN PHASE-2 WITH AMPLITUDE > 1 AND IS FAVOURABLE FOR INTENSIFICATION OF THE SYSTEM.

ABOVE SYNOPTIC AND ENVIRONMENTAL CONDITIONS, AS WELL AS NUMERICAL WEATHER PREDICTION MODEL GUIDANCE SUGGEST THAT THE DEEP DEPRESSION WOULD MOVE NORTH-NORTHWESTWARDS AND INTENSIFY INTO A CYCLONIC STORM DURING NEXT 24 HOURS.

**THE NEXT BULLETIN WILL BE ISSUED AT 0600 UTC OF 8 JUNE 2015.**

(B.P YADAV)  
SCIENTIST 'E'  
Ph: 011-24631913

TOO/ 08/0300 HRS UTC



भारत मौसम विज्ञान विभाग  
INDIA METEOROLOGICAL DEPARTMENT

**TROPICAL CYCLONE ADVISORY BULLETIN**

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

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

**TROPICAL CYCLONE ADVISORY**

**RSMC – TROPICAL CYCLONES, NEW DELHI**

TROPICAL STORM 'ASHOBAA' ADVISORY NO. ONE ISSUED AT 0600 UTC OF 8<sup>TH</sup> JUNE 2015  
BASED ON 0300 UTC CHARTS.

THE DEEP DEPRESSION OVER EASTCENTRAL ARABIAN SEA HAS MOVED NORTH-NORTHWESTWARDS DURING PAST 6 HOURS AND INTENSIFIED FURTHER INTO A CYCLONIC STORM (ASHOBAA), AND LAY CENTRED AT 0300 UTC OF 08 JUNE 2015 NEAR LATITUDE 17.9 N AND LONGITUDE 67.2 E, ABOUT 590 KM WEST-SOUTHWEST OF MUMBAI, 470 KM SOUTHWEST OF VERAVAL AND 960 KM EAST-SOUTHEAST OF MASIRAH ISLAND (OMAN). IT WOULD MOVE INITIALLY NORTH-NORTHWESTWARDS AND INTENSIFY FURTHER INTO A SEVERE CYCLONIC STORM DURING NEXT 36 HOURS.

ACCORDING TO SATELLITE IMAGERIES, THE INTENSITY OF THE SYSTEM IS T 2.5. ASSOCIATED BROKEN LOW AND MEDIUM CLOUDS EMBEDDED WITH INTENSE TO VERY INTENSE CONVECTION IS SEEN OVER THE AREA BETWEEN LATITUDE 13.0<sup>0</sup> NORTH TO 21.0<sup>0</sup> NORTH, LONGITUDE 61.0<sup>0</sup> EAST TO 69.0<sup>0</sup>EAST. THE LOWEST CLOUD TOP TEMPERATURE (CTT) IS ABOUT -93<sup>0</sup> C. MAXIMUM SUSTAINED SURFACE WIND SPEED IS ESTIMATED TO BE ABOUT 35 KNOTS GUSTING TO 45 KNOTS AROUND THE SYSTEM CENTRE. THE STATE OF THE SEA IS VERY ROUGH AROUND THE SYSTEM CENTRE. THE ESTIMATED CENTRAL PRESSURE IS ABOUT 994HPA.

| Date/Time(UTC)  | Position<br>(Lat. °N/ long. °E) | Maximum sustained surface<br>wind speed (kmph) | Category of cyclonic<br>disturbance |
|-----------------|---------------------------------|--|-------------------------------------|
| 08.06.2015/0300 | 17.9/67.2                       | 60-70 gusting to 80                            | Cyclonic Storm                      |
| 08.06.2015/0600 | 18.3/66.9                       | 60-70 gusting to 80                            | Cyclonic Storm                      |
| 08.06.2015/1200 | 19.0/66.5                       | 60-70 gusting to 80                            | Cyclonic Storm                      |
| 08.06.2015/1800 | 20.0/66.0                       | 70-80 gusting to 90                            | Cyclonic Storm                      |
| 09.06.2015/0000 | 21.0/65.3                       | 80-90 gusting to 105                           | Cyclonic Storm                      |
| 09.06.2015/1200 | 21.7/64.5                       | 90-100 gusting to 120                          | Severe Cyclonic Storm               |
| 10.06.2015/0000 | 22.5/63.7                       | 90-100 gusting to 120                          | Severe Cyclonic Storm               |
| 10.06.2015/1200 | 23.0/63.0                       | 90-100 gusting to 120                          | Severe Cyclonic Storm               |
| 11.06.2015/0000 | 23.5/62.4                       | 80-90 gusting to 105                           | Cyclonic Storm                      |
| 11.06.2015/1200 | 23.9/61.8                       | 60-70 gusting to 80                            | Cyclonic Storm                      |
| 12.06.2015/0000 | 24.3/61.0                       | 50-60 gusting to 70                            | Deep Depression                     |

|                 |           |                     |            |
|-----------------|-----------|---------------------|------------|
| 12.06.2015/1200 | 24.5/60.5 | 40-50 gusting to 60 | Depression |
|-----------------|-----------|---------------------|------------|

**REMARKS:**

THE SEA SURFACE TEMPERATURE IS 30-31°C, OCEAN THERMAL ENERGY IS ABOUT 100-120 KJ/CM<sup>2</sup>, LOW LEVEL CONVERGENCE IS (20-30)X10<sup>-5</sup> SECOND<sup>-1</sup>, UPPER LEVEL DIVERGENCE IS ABOUT (25-35)X10<sup>-5</sup> SECOND<sup>-1</sup>, THE LOW LEVEL RELATIVE VORTICITY IS ABOUT (20-25)X10<sup>-5</sup> SECOND<sup>-1</sup>, VERTICAL WIND SHEAR IS MODERATE (15-25 KNOTS). UPPER TROPOSPHERIC RIDGE LIES ALONG 21.0°N. THE MADDEN-JULIAN OSCILLATION LIES IN PHASE-2 WITH AMPLITUDE > 1 AND IS FAVOURABLE FOR FURTHER INTENSIFICATION OF THE SYSTEM.

ABOVE SYNOPTIC AND ENVIRONMENTAL CONDITIONS, AS WELL AS NUMERICAL WEATHER PREDICTION MODEL GUIDANCE SUGGEST THAT THE CYCLONIC STORM WOULD MOVE NORTH-NORTHWESTWARDS AND INTENSIFY INTO A SEVERE CYCLONIC STORM DURING NEXT 36 HOURS.

**THE NEXT BULLETIN WILL BE ISSUED AT 0900 UTC OF 8 JUNE 2015.**

(CHARAN SINGH)  
SCIENTIST 'E'  
Ph: 011-24631913

TOO/ 08/0600 HRS UTC



भारत मौसम विज्ञान विभाग  
INDIA METEOROLOGICAL DEPARTMENT

**TROPICAL CYCLONE ADVISORY BULLETIN**

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

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

**TROPICAL CYCLONE ADVISORY**

**RSMC – TROPICAL CYCLONES, NEW DELHI**

TROPICAL STORM 'ASHOBAA' ADVISORY NO. TWO ISSUED AT 0900 UTC OF 8<sup>TH</sup> JUNE 2015  
BASED ON 0600 UTC CHARTS.

THE CYCLONIC STORM (ASHOBAA) OVER EASTCENTRAL ARABIAN SEA REMAINED PRACTICALLY STATIONARY DURING PAST 3 HOURS AND LAY CENTRED AT 0600 UTC OF 8 JUNE 2015 NEAR LATITUDE 17.9<sup>0</sup> N AND LONGITUDE 67.2<sup>0</sup> E, ABOUT 590 KM WEST-SOUTHWEST OF MUMBAI(43003), 470 KM SOUTHWEST OF VERAVAL(42909) AND 960 KM EAST-SOUTHEAST OF MASIRAH ISLAND(41288). IT WOULD MOVE INITIALLY NORTH-NORTHWESTWARDS AND INTENSIFY FURTHER INTO A SEVERE CYCLONIC STORM DURING NEXT 36 HOURS.

ACCORDING TO SATELLITE IMAGERIES, THE INTENSITY OF THE SYSTEM IS T 2.5. ASSOCIATED BROKEN LOW AND MEDIUM CLOUDS EMBEDDED WITH INTENSE TO VERY INTENSE CONVECTION IS SEEN OVER THE AREA BETWEEN LATITUDE 13.0<sup>0</sup> NORTH TO 21.0<sup>0</sup> NORTH, LONGITUDE 61.0<sup>0</sup> EAST TO 69.0<sup>0</sup> EAST. THE LOWEST CLOUD TOP TEMPERATURE (CTT) IS ABOUT -93<sup>0</sup> C. MAXIMUM SUSTAINED SURFACE WIND SPEED IS ESTIMATED TO BE ABOUT 35 KNOTS GUSTING TO 45 KNOTS AROUND THE SYSTEM CENTRE. THE STATE OF THE SEA IS VERY ROUGH AROUND THE SYSTEM CENTRE. THE ESTIMATED CENTRAL PRESSURE IS ABOUT 994HPA.

| <b>Date/Time(UTC)</b> | <b>Position<br/>(Lat. <sup>0</sup>N/ long. <sup>0</sup>E)</b> | <b>Maximum sustained surface<br/>wind speed (kmph)</b> | <b>Category of cyclonic<br/>disturbance</b> |
|-----------------------|---|--|---|
| 08.06.2015/0600       | 17.9/67.7   | 60-70 gusting to 80                                    | Cyclonic Storm                              |
| 08.06.2015/1200       | 19.0/66.5   | 60-70 gusting to 80                                    | Cyclonic Storm                              |
| 08.06.2015/1800       | 20.0/66.0   | 70-80 gusting to 90                                    | Cyclonic Storm                              |
| 09.06.2015/0000       | 21.0/65.3   | 80-90 gusting to 105                                   | Cyclonic Storm                              |
| 09.06.2015/1200       | 21.7/64.5   | 90-100 gusting to 120                                  | Severe Cyclonic Storm                       |
| 10.06.2015/0000       | 22.5/63.7   | 90-100 gusting to 120                                  | Severe Cyclonic Storm                       |
| 10.06.2015/1200       | 23.0/63.0   | 90-100 gusting to 120                                  | Severe Cyclonic Storm                       |
| 11.06.2015/0000       | 23.5/62.4   | 80-90 gusting to 105                                   | Cyclonic Storm                              |
| 11.06.2015/1200       | 23.9/61.8   | 60-70 gusting to 80                                    | Cyclonic Storm                              |
| 12.06.2015/0000       | 24.3/61.0   | 50-60 gusting to 70                                    | Deep Depression                             |
| 12.06.2015/1200       | 24.5/60.5   | 40-50 gusting to 60                                    | Depression                                  |



**REMARKS:**

THE SEA SURFACE TEMPERATURE IS 30-31°C, OCEAN THERMAL ENERGY IS ABOUT 100-120 KJ/CM<sup>2</sup>, LOW LEVEL CONVERGENCE IS (20-30)X10<sup>-5</sup> SECOND<sup>-1</sup>, UPPER LEVEL DIVERGENCE IS ABOUT (25-35)X10<sup>-5</sup> SECOND<sup>-1</sup>, THE LOW LEVEL RELATIVE VORTICITY IS ABOUT (20-25)X10<sup>-5</sup> SECOND<sup>-1</sup>, VERTICAL WIND SHEAR IS MODERATE (15-25 KNOTS). UPPER TROPOSPHERIC RIDGE LIES ALONG 21.0°N. THE MADDEN-JULIAN OSCILLATION LIES IN PHASE-2 WITH AMPLITUDE > 1 AND IS FAVOURABLE FOR FURTHER INTENSIFICATION OF THE SYSTEM.

ABOVE SYNOPTIC AND ENVIRONMENTAL CONDITIONS, AS WELL AS NUMERICAL WEATHER PREDICTION MODEL GUIDANCE SUGGEST THAT THE CYCLONIC STORM WOULD MOVE NORTH-NORTHWESTWARDS AND INTENSIFY INTO A SEVERE CYCLONIC STORM DURING NEXT 36 HOURS.

**THE NEXT BULLETIN WILL BE ISSUED AT 1200 UTC OF 8 JUNE 2015.**

(CHARAN SINGH)  
SCIENTIST 'E'  
Ph: 011-24631913

TOO/ 08/0900 HRS UTC



भारत मौसम विज्ञान विभाग  
INDIA METEOROLOGICAL DEPARTMENT

**TROPICAL CYCLONE ADVISORY BULLETIN**

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

**TO: STORM WARNING CENTRE, YANGAON (MYANMAR)  
STORM WARNING CENTRE, BANGKOK (THAILAND)  
STORM WARNING CENTRE, COLOMBO (SRILANKA)  
WARNING CENTRE, DHAKA ( BANGLADESH )  
STORM STORM WARNING CENTRE, KARACHI (PAKISTAN)  
METEOROLOGICAL OFFICE, MALE (MALDIVES)  
OMAN METEOROLOGICAL DEPARTMENT, MUSCAT (THROUGH RTH JEDDAH)  
TROPICAL CYCLONE ADVISORY (Modified)**

**RSMC – TROPICAL CYCLONES, NEW DELHI**

TROPICAL STORM 'ASHOBAA' ADVISORY NO. THREE ISSUED AT 1200 UTC OF 8 JUNE 2015  
BASED ON 0900 UTC CHARTS.

THE CYCLONIC STORM (ASHOBAA) OVER EASTCENTRAL ARABIAN SEA MOVED NORTH-NORTHWESTWARDS DURING PAST 6 HOURS AND LAY CENTRED AT 0900 UTC OF 8 JUNE 2015 NEAR LATITUDE 18.5° N AND LONGITUDE 66.7° E, ABOUT 650 KM WEST OF MUMBAI (43003), 470 KM SOUTHWEST OF VERAVAL (42909) AND 860 KM EAST-SOUTHEAST OF MASIRAH (41288) ISLAND (OMAN). IT WOULD MOVE NORTH-NORTHWESTWARDS AND INTENSIFY FURTHER INTO A SEVERE CYCLONIC STORM DURING NEXT 36 HOURS.

ACCORDING TO SATELLITE IMAGERIES, THE INTENSITY OF THE SYSTEM IS T 2.5. ASSOCIATED BROKEN LOW AND MEDIUM CLOUDS EMBEDDED WITH INTENSE TO VERY INTENSE CONVECTION IS SEEN OVER THE AREA BETWEEN LATITUDE 15.0° NORTH TO 22.0° NORTH, LONGITUDE 61.0° EAST TO 68.0° EAST. THE LOWEST CLOUD TOP TEMPERATURE (CTT) IS ABOUT -93° C. MAXIMUM SUSTAINED SURFACE WIND SPEED IS ESTIMATED TO BE ABOUT 35 KNOTS GUSTING TO 45 KNOTS AROUND THE SYSTEM CENTRE. THE STATE OF THE SEA IS VERY ROUGH AROUND THE SYSTEM CENTRE. THE ESTIMATED CENTRAL PRESSURE IS ABOUT 994HPA.

**FORECAST TRACK AND INTENSITY OF THE SYSTEM ARE GIVEN IN THE TABLE BELOW:**

| <b>DATE/TIME(UTC)</b> | <b>POSITION<br/>(LAT. °N/ LONG. °)</b> | <b>MAXIMUM SUSTAINED<br/>SURFACE<br/>WIND SPEED (KMPH)</b> | <b>CATEGORY OF CYCLONIC<br/>DISTURBANCE</b> |
|-----------------------|--|--|---|
| 08.06.2015/0900       | 18.5/66.7                              | 60-70 GUSTING TO 80  | CYCLONIC STORM                              |
| 08.06.2015/1500       | 19.0/66.2                              | 60-70 GUSTING TO 80  | CYCLONIC STORM                              |
| 08.06.2015/2100       | 19.5/65.9                              | 60-70 GUSTING TO 80  | CYCLONIC STORM                              |
| 09.06.2015/0300       | 20.0/65.5                              | 70-80 GUSTING TO 95  | CYCLONIC STORM                              |
| 09.06.2015/0900       | 20.6/65.0                              | 70-80 GUSTING TO 95  | CYCLONIC STORM                              |
| 09.06.2015/2100       | 21.1/64.6                              | 95-105 GUSTING TO 120                                      | SEVERE CYCLONIC<br>STORM                    |
| 10.06.2015/0900       | 22.0/63.9                              | 95-105 GUSTING TO 120                                      | SEVERE CYCLONIC<br>STORM                    |

|                 |           |                      |                 |
|-----------------|-----------|----------------------|-----------------|
| 10.06.2015/2100 | 22.7/63.2 | 80-90 GUSTING TO 105 | CYCLONIC STORM  |
| 11.06.2015/0900 | 23.3/62.6 | 80-90 GUSTING TO 105 | CYCLONIC STORM  |
| 11.06.2015/2100 | 23.7/61.9 | 70-80 GUSTING TO 90  | CYCLONIC STORM  |
| 12.06.2015/0900 | 24.1/61.0 | 60-70 GUSTING TO 80  | CYCLONIC STORM  |
| 12.06.2015/2100 | 24.3/60.2 | 55-65 GUSTING TO 75  | DEEP DEPRESSION |
| 13.06.2015/0900 | 24.5/59.4 | 40-50 GUSTING TO 60  | DEPRESSION      |

**REMARKS:**

THE SEA SURFACE TEMPERATURE IS 30-31°C, OCEAN THERMAL ENERGY IS ABOUT 100-120 KJ/CM<sup>2</sup>, LOW LEVEL CONVERGENCE IS (20-30)X10<sup>-5</sup> SECOND<sup>-1</sup>, UPPER LEVEL DIVERGENCE IS ABOUT (25-35)X10<sup>-5</sup> SECOND<sup>-1</sup>, THE LOW LEVEL RELATIVE VORTICITY IS ABOUT (20-25)X10<sup>-5</sup> SECOND<sup>-1</sup>, VERTICAL WIND SHEAR IS MODERATE (15-25 KNOTS). UPPER TROPOSPHERIC RIDGE LIES ALONG 21.0°N. THE MADDEN-JULIAN OSCILLATION LIES IN PHASE-2 WITH AMPLITUDE > 1 AND IS FAVOURABLE FOR FURTHER INTENSIFICATION OF THE SYSTEM.

ABOVE SYNOPTIC AND ENVIRONMENTAL CONDITIONS, AS WELL AS NUMERICAL WEATHER PREDICTION MODEL GUIDANCE SUGGEST THAT THE CYCLONIC STORM WOULD MOVE NORTH-NORTHWESTWARDS AND INTENSIFY INTO A SEVERE CYCLONIC STORM DURING NEXT 36 HOURS.

**THE NEXT BULLETIN WILL BE ISSUED AT 1500 UTC OF 8 JUNE 2015.**

(CHARAN SINGH)  
SCIENTIST 'E'  
Ph: 011-24631913

TOO/ 08/1730 HRS IST



भारत मौसम विज्ञान विभाग  
INDIA METEOROLOGICAL DEPARTMENT

**TROPICAL CYCLONE ADVISORY BULLETIN**

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

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

**TROPICAL CYCLONE ADVISORY**

**RSMC – TROPICAL CYCLONES, NEW DELHI**

TROPICAL STORM 'ASHOBAA' ADVISORY NO. FOUR ISSUED AT 1500 UTC OF 8 JUNE 2015  
BASED ON 1200 UTC CHARTS.

THE CYCLONIC STORM (ASHOBAA) OVER EASTCENTRAL ARABIAN SEA REMAINED PRACTICALLY STATIONARY AND NOW LAY CENTRED AT 1200 UTC OF 8 JUNE 2015 NEAR LATITUDE 18.6° N AND LONGITUDE 66.5° E, ABOUT 670 KM WEST OF MUMBAI (43003), 480 KM SOUTHWEST OF VERAVAL (42909) AND 830 KM EAST-SOUTHEAST OF MASIRAH ISLAND (41288) (OMAN). IT WOULD MOVE NORTH-NORTHWESTWARDS AND INTENSIFY FURTHER INTO A SEVERE CYCLONIC STORM DURING NEXT 36 HOURS.

ACCORDING TO SATELLITE IMAGERIES, THE INTENSITY OF THE SYSTEM IS T 2.5. ASSOCIATED BROKEN LOW AND MEDIUM CLOUDS EMBEDDED WITH INTENSE TO VERY INTENSE CONVECTION IS SEEN OVER THE AREA BETWEEN LATITUDE 16.0° NORTH TO 22.0° NORTH, LONGITUDE 61.5° EAST TO 68.0° EAST. THE LOWEST CLOUD TOP TEMPERATURE (CTT) IS ABOUT -93° C. MAXIMUM SUSTAINED SURFACE WIND SPEED IS ESTIMATED TO BE ABOUT 35 KNOTS GUSTING TO 45 KNOTS AROUND THE SYSTEM CENTRE. THE STATE OF THE SEA IS VERY ROUGH AROUND THE SYSTEM CENTRE. THE ESTIMATED CENTRAL PRESSURE IS ABOUT 994 HPA.

**FORECAST TRACK AND INTENSITY OF THE SYSTEM ARE GIVEN IN THE TABLE BELOW:**

| DATE/TIME(UTC)  | POSITION<br>(LAT. °N/ LONG. °) | MAXIMUM SUSTAINED<br>SURFACE<br>WIND SPEED (KMPH) | CATEGORY OF CYCLONIC<br>DISTURBANCE |
|-----------------|--------------------------------|---|-------------------------------------|
| 08.06.2015/1200 | 18.6/66.5                      | 60-70 GUSTING TO 80                               | CYCLONIC STORM                      |
| 08.06.2015/1800 | 18.8/66.3                      | 60-70 GUSTING TO 80                               | CYCLONIC STORM                      |
| 09.06.2015/0000 | 19.2/66.0                      | 60-70 GUSTING TO 80                               | CYCLONIC STORM                      |
| 09.06.2015/0600 | 19.8/65.5                      | 70-80 GUSTING TO 95                               | CYCLONIC STORM                      |
| 09.06.2015/1200 | 20.4/65.0                      | 70-80 GUSTING TO 95                               | CYCLONIC STORM                      |
| 10.06.2015/0000 | 20.8/64.6                      | 95-105 GUSTING TO 120                             | SEVERE CYCLONIC<br>STORM            |
| 10.06.2015/1200 | 21.4/63.9                      | 95-105 GUSTING TO 120                             | SEVERE CYCLONIC<br>STORM            |
| 11.06.2015/0000 | 22.1/63.2                      | 90-105 GUSTING TO 120                             | SEVERE CYCLONIC<br>STORM            |

|                 |           |                      |                 |
|-----------------|-----------|----------------------|-----------------|
| 11.06.2015/1200 | 22.7/62.6 | 80-90 GUSTING TO 105 | CYCLONIC STORM  |
| 12.06.2015/0000 | 23.1/61.9 | 70-80 GUSTING TO 90  | CYCLONIC STORM  |
| 12.06.2015/1200 | 23.4/61.0 | 60-70 GUSTING TO 80  | CYCLONIC STORM  |
| 13.06.2015/0000 | 23.7/60.2 | 55-65 GUSTING TO 75  | DEEP DEPRESSION |
| 13.06.2015/1200 | 23.9/59.4 | 40-50 GUSTING TO 60  | DEPRESSION      |

**REMARKS:**

THE SEA SURFACE TEMPERATURE IS 30-31°C, OCEAN THERMAL ENERGY IS ABOUT 100-120 KJ/CM<sup>2</sup>, LOW LEVEL CONVERGENCE IS (20-30)X10<sup>-5</sup> SECOND<sup>-1</sup>, UPPER LEVEL DIVERGENCE IS ABOUT (25-35)X10<sup>-5</sup> SECOND<sup>-1</sup>, THE LOW LEVEL RELATIVE VORTICITY IS ABOUT (20-25)X10<sup>-5</sup> SECOND<sup>-1</sup>, VERTICAL WIND SHEAR IS MODERATE (15-25 KNOTS). UPPER TROPOSPHERIC RIDGE LIES ALONG 21.0°N. THE MADDEN-JULIAN OSCILLATION LIES IN PHASE-2 WITH AMPLITUDE > 1 AND IS FAVOURABLE FOR FURTHER INTENSIFICATION OF THE SYSTEM.

ABOVE SYNOPTIC AND ENVIRONMENTAL CONDITIONS, AS WELL AS NUMERICAL WEATHER PREDICTION MODEL GUIDANCE SUGGEST THAT THE CYCLONIC STORM WOULD MOVE NORTH-NORTHWESTWARDS AND INTENSIFY INTO A SEVERE CYCLONIC STORM DURING NEXT 36 HOURS.

**THE NEXT BULLETIN WILL BE ISSUED AT 1800 UTC OF 8 JUNE 2015.**

(D.R.PATTANAİK)  
SCIENTIST 'E'  
Ph: 011-24631913

TOO/ 08/2015 HRS IST



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INDIA METEOROLOGICAL DEPARTMENT

**TROPICAL CYCLONE ADVISORY BULLETIN**

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

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

**TROPICAL CYCLONE ADVISORY**

**RSMC – TROPICAL CYCLONES, NEW DELHI**

TROPICAL STORM 'ASHOBAA' ADVISORY NO.FIVE ISSUED AT 1800 UTC OF 8 JUNE 2015  
BASED ON 1500 UTC CHARTS.

THE CYCLONIC STORM (ASHOBAA) OVER EASTCENTRAL ARABIAN SEA HAS MOVED IN A NORTHWESTERLY DIRECTION AND NOW LAY CENTRED AT 1500 UTC OF 8 JUNE 2015 NEAR LATITUDE 18.8° N AND LONGITUDE 66.2° E, ABOUT 700 KM WEST OF MUMBAI(43003), 490 KM SOUTHWEST OF VERAVAL (42909) AND 790 KM EAST-SOUTHEAST OF MASIRAH ISLAND (41288) (OMAN). IT WOULD MOVE NORTH-NORTHWESTWARDS AND INTENSIFY FURTHER INTO A SEVERE CYCLONIC STORM DURING NEXT 36 HOURS.

ACCORDING TO SATELLITE IMAGERIES, THE INTENSITY OF THE SYSTEM IS T 2.5. ASSOCIATED BROKEN LOW AND MEDIUM CLOUDS EMBEDDED WITH INTENSE TO VERY INTENSE CONVECTION IS SEEN OVER THE AREA BETWEEN LATITUDE 16.0° NORTH TO 22.0° NORTH, LONGITUDE 61.0° EAST TO 68.0° EAST. THE LOWEST CLOUD TOP TEMPERATURE (CTT) IS ABOUT -89° C. MAXIMUM SUSTAINED SURFACE WIND SPEED IS ESTIMATED TO BE ABOUT 35 KNOTS GUSTING TO 45 KNOTS AROUND THE SYSTEM CENTRE. THE STATE OF THE SEA IS VERY ROUGH AROUND THE SYSTEM CENTRE. THE ESTIMATED CENTRAL PRESSURE IS ABOUT 994 HPA.

**FORECAST TRACK AND INTENSITY OF THE SYSTEM ARE GIVEN IN THE TABLE BELOW:**

| <b>DATE/TIME(UTC)</b> | <b>POSITION<br/>(LAT. °N/ LONG. °)</b> | <b>MAXIMUM SUSTAINED<br/>SURFACE<br/>WIND SPEED (KMPH)</b> | <b>CATEGORY OF CYCLONIC<br/>DISTURBANCE</b> |
|-----------------------|--|--|---|
| 08.06.2015/1500       | 18.8/66.2                              | 60-70 GUSTING TO 80  | CYCLONIC STORM                              |
| 08.06.2015/1800       | 19.2/66.0                              | 60-70 GUSTING TO 80  | CYCLONIC STORM                              |
| 09.06.2015/0000       | 19.8/65.5                              | 70-80 GUSTING TO 95  | CYCLONIC STORM                              |
| 09.06.2015/0600       | 20.4/65.0                              | 70-80 GUSTING TO 95  | CYCLONIC STORM                              |
| 09.06.2015/1200       | 20.8/64.6                              | 70-80 GUSTING TO 95  | CYCLONIC STORM                              |
| 10.06.2015/0000       | 21.4/63.9                              | 95-105 GUSTING TO 120                                      | CYCLONIC STORM                              |
| 10.06.2015/1200       | 22.1/63.2                              | 95-105 GUSTING TO 120                                      | SEVERE CYCLONIC STORM                       |
| 11.06.2015/0000       | 22.7/62.6                              | 105-115 GUSTING TO 130                                     | SEVERE CYCLONIC STORM                       |
| 11.06.2015/1200       | 23.1/61.9                              | 95-105 GUSTING TO 120                                      | SEVERE CYCLONIC<br>STORM                    |

|                 |           |                     |                 |
|-----------------|-----------|---------------------|-----------------|
| 12.06.2015/0000 | 23.4/61.3 | 70-80 GUSTING TO 90 | CYCLONIC STORM  |
| 12.06.2015/1200 | 23.7/60.8 | 60-70 GUSTING TO 80 | CYCLONIC STORM  |
| 13.06.2015/0000 | 23.9/59.9 | 55-65 GUSTING TO 75 | DEEP DEPRESSION |
| 13.06.2015/1200 | 24.1/59.4 | 40-50 GUSTING TO 60 | DEPRESSION      |

**REMARKS:**

THE SEA SURFACE TEMPERATURE IS 30-31°C, OCEAN THERMAL ENERGY IS ABOUT 100-120 KJ/CM<sup>2</sup>, LOW LEVEL CONVERGENCE IS (15-20)X10<sup>-5</sup> SECOND<sup>-1</sup>, UPPER LEVEL DIVERGENCE IS ABOUT (15-20)X10<sup>-5</sup> SECOND<sup>-1</sup>, THE LOW LEVEL RELATIVE VORTICITY IS ABOUT (15-20)X10<sup>-5</sup> SECOND<sup>-1</sup>, VERTICAL WIND SHEAR IS MODERATE (15-25 KNOTS). UPPER TROPOSPHERIC RIDGE LIES ALONG 21.0°N. THE MADDEN-JULIAN OSCILLATION LIES IN PHASE-2 WITH AMPLITUDE > 1 AND IS FAVOURABLE FOR FURTHER INTENSIFICATION OF THE SYSTEM.

ABOVE SYNOPTIC AND ENVIRONMENTAL CONDITIONS, AS WELL AS NUMERICAL WEATHER PREDICTION MODEL GUIDANCE SUGGEST THAT THE CYCLONIC STORM WOULD MOVE NORTH-NORTHWESTWARDS AND INTENSIFY INTO A SEVERE CYCLONIC STORM DURING NEXT 36 HOURS.

**THE NEXT BULLETIN WILL BE ISSUED AT 2100 UTC OF 8 JUNE 2015.**

(D.R.PATTANAİK)  
SCIENTIST 'E'  
Ph: 011-24631913

TOO/ 08/2345 HRS IST



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INDIA METEOROLOGICAL DEPARTMENT

**TROPICAL CYCLONE ADVISORY BULLETIN**

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

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

**TROPICAL CYCLONE ADVISORY**

**RSMC – TROPICAL CYCLONES, NEW DELHI**

TROPICAL STORM 'ASHOBAA' ADVISORY NO.SIX ISSUED AT 2100 UTC OF 8 JUNE 2015  
BASED ON 1800 UTC CHARTS.

THE CYCLONIC STORM (ASHOBAA) OVER EASTCENTRAL ARABIAN SEA HAS MOVED IN A NORTHWESTERLY DIRECTION AND NOW LAY CENTRED AT 1800 UTC OF 8 JUNE 2015 NEAR LATITUDE 19.2° N AND LONGITUDE 65.7° E, ABOUT 750 KM WEST OF MUMBAI(43003), 520 KM WEST-SOUTHWEST OF VERAVAL (42909) AND 730 KM EAST-SOUTHEAST OF MASIRAH ISLAND (41288) (OMAN). IT WOULD MOVE NORTH-NORTHWESTWARDS AND INTENSIFY FURTHER INTO A SEVERE CYCLONIC STORM DURING NEXT 36 HOURS.

ACCORDING TO SATELLITE IMAGERIES, THE INTENSITY OF THE SYSTEM IS T 2.5. ASSOCIATED BROKEN LOW AND MEDIUM CLOUDS EMBEDDED WITH INTENSE TO VERY INTENSE CONVECTION IS SEEN OVER THE AREA BETWEEN LATITUDE 16.0° NORTH TO 22.0° NORTH, LONGITUDE 61.0° EAST TO 68.0° EAST. THE LOWEST CLOUD TOP TEMPERATURE (CTT) IS ABOUT -93° C. MAXIMUM SUSTAINED SURFACE WIND SPEED IS ESTIMATED TO BE ABOUT 35 KNOTS GUSTING TO 45 KNOTS AROUND THE SYSTEM CENTRE. THE STATE OF THE SEA IS VERY ROUGH AROUND THE SYSTEM CENTRE. THE ESTIMATED CENTRAL PRESSURE IS ABOUT 994 HPA.

**FORECAST TRACK AND INTENSITY OF THE SYSTEM ARE GIVEN IN THE TABLE BELOW:**

| <b>Date/Time(UTC)</b> | <b>Position<br/>(Lat. °N/ long. °E)</b> | <b>Maximum sustained surface<br/>wind speed (kmph)</b> | <b>Category of cyclonic<br/>disturbance</b> |
|-----------------------|---|--|---|
| 08.06.2015/1800       | 19.2/65.7                               | 60-70 GUSTING TO 80                                    | CYCLONIC STORM                              |
| 09.06.2015/0000       | 19.7/65.4                               | 60-70 GUSTING TO 80                                    | CYCLONIC STORM                              |
| 09.06.2015/0600       | 20.4/65.0                               | 60-70 GUSTING TO 80                                    | CYCLONIC STORM                              |
| 09.06.2015/1200       | 20.8/64.6                               | 70-80 GUSTING TO 95                                    | CYCLONIC STORM                              |
| 09.06.2015/1800       | 21.4/63.9                               | 70-80 GUSTING TO 95                                    | CYCLONIC STORM                              |
| 10.06.2015/0600       | 22.1/63.2                               | 70-80 GUSTING TO 95                                    | CYCLONIC STORM                              |
| 10.06.2015/1800       | 22.7/62.6                               | 95-105 GUSTING TO 120                                  | SEVERE CYCLONIC<br>STORM                    |
| 11.06.2015/0600       | 23.1/61.9                               | 105-115 GUSTING TO 130                                 | SEVERE CYCLONIC<br>STORM                    |
| 11.06.2015/1800       | 23.4/61.3                               | 95-105 GUSTING TO 120                                  | SEVERE CYCLONIC<br>STORM                    |
| 12.06.2015/0600       | 23.7/60.8                               | 70-80 GUSTING TO 90                                    | CYCLONIC STORM                              |
| 12.06.2015/1800       | 24.0/60.2                               | 60-70 GUSTING TO 80                                    | CYCLONIC STORM                              |



|                 |           |                     |                 |
|-----------------|-----------|---------------------|-----------------|
| 13.06.2015/0600 | 24.4/59.5 | 55-65 GUSTING TO 75 | DEEP DEPRESSION |
| 13.06.2015/1800 | 24.6/58.7 | 40-50 GUSTING TO 60 | DEPRESSION      |

**REMARKS:**

THE SEA SURFACE TEMPERATURE IS 30-31°C, OCEAN THERMAL ENERGY IS ABOUT 100-120 KJ/CM<sup>2</sup>, LOW LEVEL CONVERGENCE IS (15-20)X10<sup>-5</sup> SECOND<sup>-1</sup>, UPPER LEVEL DIVERGENCE IS ABOUT (20-30)X10<sup>-5</sup> SECOND<sup>-1</sup>, THE LOW LEVEL RELATIVE VORTICITY IS ABOUT (15-20)X10<sup>-5</sup> SECOND<sup>-1</sup>, VERTICAL WIND SHEAR IS MODERATE (20-30 KNOTS). UPPER TROPOSPHERIC RIDGE LIES ALONG 21.0°N. THE MADDEN-JULIAN OSCILLATION LIES IN PHASE-2 WITH AMPLITUDE > 1 AND IS FAVOURABLE FOR FURTHER INTENSIFICATION OF THE SYSTEM.

ABOVE SYNOPTIC AND ENVIRONMENTAL CONDITIONS, AS WELL AS NUMERICAL WEATHER PREDICTION MODEL GUIDANCE SUGGEST THAT THE CYCLONIC STORM WOULD MOVE NORTH-NORTHWESTWARDS AND INTENSIFY INTO A SEVERE CYCLONIC STORM DURING NEXT 36 HOURS.

**THE NEXT BULLETIN WILL BE ISSUED AT 0000 UTC OF 9 JUNE 2015.**

(D.R.PATTANAİK)  
SCIENTIST 'E'  
Ph: 011-24631913

TOO/ 09/0230 HRS IST



भारत मौसम विज्ञान विभाग  
INDIA METEOROLOGICAL DEPARTMENT

**TROPICAL CYCLONE ADVISORY BULLETIN**

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

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

**TROPICAL CYCLONE ADVISORY**

**RSMC – TROPICAL CYCLONES, NEW DELHI**

TROPICAL STORM 'ASHOBAA' ADVISORY NO.SEVEN ISSUED AT 0000 UTC OF 9 JUNE 2015  
BASED ON 2100 UTC CHARTS.

THE CYCLONIC STORM (ASHOBAA) OVER EASTCENTRAL ARABIAN SEA HAS MOVED IN A NORTHWESTERLY DIRECTION AND NOW LAY CENTRED AT 21 UTC OF 8 JUNE 2015 NEAR LATITUDE 19.5° N AND LONGITUDE 65.3° E, ABOUT 790 KM WEST OF MUMBAI , 550 KM WEST-SOUTHWEST OF VERAVAL AND 680 KM EAST-SOUTHEAST OF MASIRAH ISLAND (OMAN). IT WOULD MOVE NORTH-NORTHWESTWARDS AND INTENSIFY FURTHER INTO A SEVERE CYCLONIC STORM DURING NEXT 36 HOURS.

ACCORDING TO SATELLITE IMAGERIES, THE INTENSITY OF THE SYSTEM IS T 2.5. ASSOCIATED BROKEN LOW AND MEDIUM CLOUDS EMBEDDED WITH INTENSE TO VERY INTENSE CONVECTION IS SEEN OVER THE AREA BETWEEN LATITUDE 16.0° NORTH TO 22.0° NORTH, LONGITUDE 61.0° EAST TO 67.0° EAST. THE LOWEST CLOUD TOP TEMPERATURE (CTT) IS ABOUT -90° C. MAXIMUM SUSTAINED SURFACE WIND SPEED IS ESTIMATED TO BE ABOUT 35 KNOTS GUSTING TO 45 KNOTS AROUND THE SYSTEM CENTRE. THE STATE OF THE SEA IS VERY ROUGH AROUND THE SYSTEM CENTRE. THE ESTIMATED CENTRAL PRESSURE IS ABOUT 994 HPA.

**FORECAST TRACK AND INTENSITY OF THE SYSTEM ARE GIVEN IN THE TABLE BELOW:**

| <b>Date/Time(UTC)</b> | <b>Position<br/>(Lat. °N/ long. °E)</b> | <b>Maximum sustained surface<br/>wind speed (kmph)</b> | <b>Category of cyclonic<br/>disturbance</b> |
|-----------------------|---|--|---|
| 09.06.2015/2100       | 19.5/65.3                               | 60-70 GUSTING TO 80                                    | CYCLONIC STORM                              |
| 09.06.2015/0000       | 19.7/65.2                               | 60-70 GUSTING TO 80                                    | CYCLONIC STORM                              |
| 09.06.2015/0600       | 20.1/65.1                               | 60-70 GUSTING TO 80                                    | CYCLONIC STORM                              |
| 09.06.2015/1200       | 20.8/64.6                               | 70-80 GUSTING TO 95                                    | CYCLONIC STORM                              |
| 09.06.2015/1800       | 21.4/63.9                               | 70-80 GUSTING TO 95                                    | CYCLONIC STORM                              |
| 10.06.2015/0600       | 22.1/63.2                               | 70-80 GUSTING TO 95                                    | CYCLONIC STORM                              |
| 10.06.2015/1800       | 22.7/62.6                               | 95-105 GUSTING TO 120                                  | SEVERE CYCLONIC<br>STORM                    |
| 11.06.2015/0600       | 23.1/61.9                               | 105-115 GUSTING TO 130                                 | SEVERE CYCLONIC<br>STORM                    |
| 11.06.2015/1800       | 23.4/61.3                               | 95-105 GUSTING TO 120                                  | SEVERE CYCLONIC<br>STORM                    |
| 12.06.2015/0600       | 23.7/60.8                               | 70-80 GUSTING TO 90                                    | CYCLONIC STORM                              |
| 12.06.2015/1800       | 24.0/60.2                               | 60-70 GUSTING TO 80                                    | CYCLONIC STORM                              |
| 13.06.2015/0600       | 24.4/59.5                               | 55-65 GUSTING TO 75                                    | DEEP DEPRESSION                             |
| 13.06.2015/1800       | 24.6/58.7                               | 40-50 GUSTING TO 60                                    | DEPRESSION                                  |

**REMARKS:**

THE SEA SURFACE TEMPERATURE IS 30-31°C, OCEAN THERMAL ENERGY IS ABOUT 100-120 KJ/CM<sup>2</sup>, LOW LEVEL CONVERGENCE IS (15-20)X10<sup>-5</sup> SECOND<sup>-1</sup>, UPPER LEVEL DIVERGENCE IS ABOUT (20-30)X10<sup>-5</sup> SECOND<sup>-1</sup>, THE LOW LEVEL RELATIVE VORTICITY IS ABOUT (15-20)X10<sup>-5</sup> SECOND<sup>-1</sup>, VERTICAL WIND SHEAR IS MODERATE (20-30 KNOTS). UPPER TROPOSPHERIC RIDGE LIES ALONG 21.0°N. THE MADDEN-JULIAN OSCILLATION LIES IN PHASE-2 WITH AMPLITUDE > 1 AND IS FAVOURABLE FOR FURTHER INTENSIFICATION OF THE SYSTEM.

ABOVE SYNOPTIC AND ENVIRONMENTAL CONDITIONS, AS WELL AS NUMERICAL WEATHER PREDICTION MODEL GUIDANCE SUGGEST THAT THE CYCLONIC STORM WOULD MOVE NORTH-NORTHWESTWARDS AND INTENSIFY INTO A SEVERE CYCLONIC STORM DURING NEXT 36 HOURS.

**THE NEXT BULLETIN WILL BE ISSUED AT 0300 UTC OF 9 JUNE 2015.**

(D.R.PATTANAİK)  
SCIENTIST 'E'  
Ph: 011-24631913

TOO/ 09/0530 HRS IST



भारत मौसम विज्ञान विभाग  
INDIA METEOROLOGICAL DEPARTMENT

**TROPICAL CYCLONE ADVISORY BULLETIN**

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

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

**TROPICAL CYCLONE ADVISORY**

**RSMC – TROPICAL CYCLONES, NEW DELHI**

TROPICAL STORM 'ASHOBAA' ADVISORY NO.EIGHT ISSUED AT 0300 UTC OF 9 JUNE 2015  
BASED ON 0000 UTC CHARTS.

THE CYCLONIC STORM (ASHOBAA) OVER EASTCENTRAL ARABIAN SEA MOVED IN A NORTH-NORTHWESTERLY DIRECTION DURING PAST 12 HOURS AND LAY CENTRED AT 0000 UTC OF 9 JUNE 2015 NEAR LATITUDE 20.0° N AND LONGITUDE 65.0° E, ABOUT 830 KM WEST OF MUMBAI (43003), 570 KM WEST-SOUTHWEST OF VERAVAL (42909), 640 KM EAST-SOUTHEAST OF SUR (41268) (OMAN) AND 800 KM EAST-SOUTHEAST OF MUSCAT (41256) (OMAN). THE SYSTEM WOULD MOVE NORTH-NORTHWESTWARDS AND INTENSIFY FURTHER INTO A SEVERE CYCLONIC STORM DURING NEXT 24 HOURS AND IT WOULD MOVE NORTHWESTWARDS THEREAFTER.

ACCORDING TO SATELLITE IMAGERIES, THE INTENSITY OF THE SYSTEM IS T 2.5. ASSOCIATED BROKEN LOW AND MEDIUM CLOUDS EMBEDDED WITH INTENSE TO VERY INTENSE CONVECTION IS SEEN OVER THE AREA BETWEEN LATITUDE 16.0° NORTH TO 22.0° NORTH, LONGITUDE 59.0° EAST TO 66.0° EAST. THE LOWEST CLOUD TOP TEMPERATURE (CTT) IS ABOUT -92° C. MAXIMUM SUSTAINED SURFACE WIND SPEED IS ESTIMATED TO BE ABOUT 35 KNOTS GUSTING TO 45 KNOTS AROUND THE SYSTEM CENTRE. THE STATE OF THE SEA IS VERY ROUGH AROUND THE SYSTEM CENTRE. THE ESTIMATED CENTRAL PRESSURE IS ABOUT 992 HPA.

**FORECAST TRACK AND INTENSITY OF THE SYSTEM ARE GIVEN IN THE TABLE BELOW:**

| <b>Date/Time(IST)</b> | <b>Position<br/>(Lat. °N/ long. °E)</b> | <b>Maximum sustained surface<br/>wind speed (kmph)</b> | <b>Category of cyclonic<br/>disturbance</b> |
|-----------------------|---|--|---|
| 09.06.2015/0000       | 20.0/65.0                               | 60-70 GUSTING TO 80                                    | CYCLONIC STORM                              |
| 09.06.2015/0600       | 20.3/64.6                               | 60-70 GUSTING TO 80                                    | CYCLONIC STORM                              |
| 09.06.2015/1200       | 20.6/64.3                               | 80-90 GUSTING TO 100                                   | CYCLONIC STORM                              |
| 09.06.2015/1800       | 21.1/63.8                               | 80-90 GUSTING TO 100                                   | CYCLONIC STORM                              |
| 10.06.2015/0000       | 21.6/63.0                               | 95-105 GUSTING TO 120                                  | SEVERE CYCLONIC<br>STORM                    |
| 10.06.2015/1200       | 22.0/62.5                               | 95-105 GUSTING TO 120                                  | SEVERE CYCLONIC<br>STORM                    |
| 11.06.2015/0000       | 22.5/61.9                               | 95-105 GUSTING TO 120                                  | SEVERE CYCLONIC<br>STORM                    |
| 11.06.2015/1200       | 22.8/61.3                               | 80-90 GUSTING TO 100                                   | CYCLONIC STORM                              |
| 12.06.2015/0000       | 23.2/60.6                               | 60-70 GUSTING TO 80                                    | CYCLONIC STORM                              |

|                 |           |                     |                 |
|-----------------|-----------|---------------------|-----------------|
| 12.06.2015/1200 | 23.4/60.0 | 60-70 GUSTING TO 80 | CYCLONIC STORM  |
| 13.06.2015/0000 | 23.6/59.4 | 55-65 GUSTING TO 75 | DEEP DEPRESSION |
| 13.06.2015/1200 | 23.8/58.8 | 55-65 GUSTING TO 75 | DEEP DEPRESSION |
| 14.06.2015/0000 | 23.9/58.2 | 40-50 GUSTING TO 60 | DEPRESSION      |

**REMARKS:**

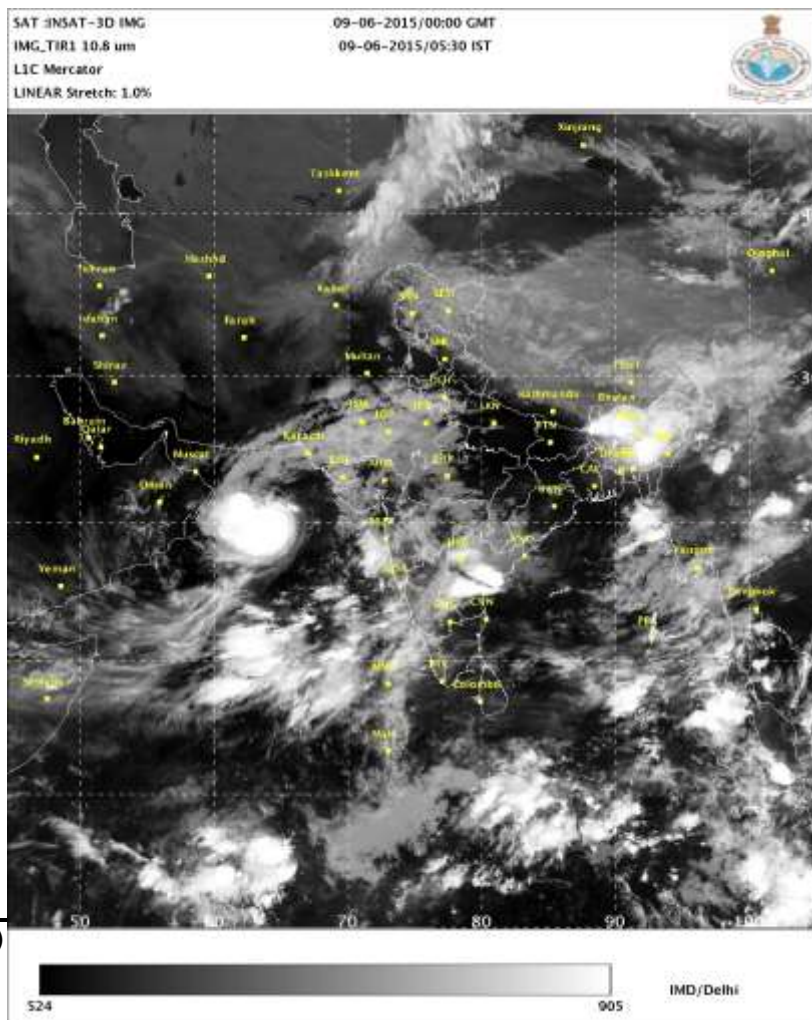
THE SEA SURFACE TEMPERATURE IS BETWEEN 30-31°C, OCEAN THERMAL ENERGY IS ABOUT 100-130 KJ/CM<sup>2</sup>, LOW LEVEL CONVERGENCE IS (10-20)X10<sup>-5</sup> SECOND<sup>-1</sup>, UPPER LEVEL DIVERGENCE IS ABOUT (20-30)X10<sup>-5</sup> SECOND<sup>-1</sup>, THE LOW LEVEL RELATIVE VORTICITY IS ABOUT (15-25)X10<sup>-5</sup> SECOND<sup>-1</sup>, VERTICAL WIND SHEAR IS MODERATE (15-25 KNOTS). UPPER TROPOSPHERIC RIDGE LIES ALONG 22.0°N. THE MADDEN-JULIAN OSCILLATION LIES IN PHASE-2 WITH AMPLITUDE > 1 AND IS FAVOURABLE FOR FURTHER INTENSIFICATION OF THE SYSTEM.

ABOVE SYNOPTIC AND ENVIRONMENTAL CONDITIONS, AS WELL AS NUMERICAL WEATHER PREDICTION MODEL GUIDANCE SUGGEST THAT THE CYCLONIC STORM WOULD MOVE NORTH-NORTHWESTWARDS AND INTENSIFY INTO A SEVERE CYCLONIC STORM DURING NEXT 24 HOURS AND IT WOULD MOVE NORTHWESTERLY THEREAFTER.

**THE NEXT BULLETIN WILL BE ISSUED AT 0600 UTC OF 9 JUNE 2015.**

(CHARAN SINGH)  
SCIENTIST 'E'  
Ph: 011-24631913

TOO/ 09/0830 HRS IST



Phone: (91)

om





भारत मौसम विज्ञान विभाग  
INDIA METEOROLOGICAL DEPARTMENT

**TROPICAL CYCLONE ADVISORY BULLETIN**

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

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

**TROPICAL CYCLONE ADVISORY**

**RSMC – TROPICAL CYCLONES, NEW DELHI**

TROPICAL STORM 'ASHOBAA' ADVISORY NO.NINE ISSUED AT 0600 UTC OF 9 JUNE 2015  
BASED ON 0300 UTC CHARTS.

THE CYCLONIC STORM (ASHOBAA) OVER EASTCENTRAL ARABIAN SEA MOVED SLOWLY IN NORTH-NORTHWESTWARD DIRECTION DURING PAST 12 HOURS AND LAY CENTRED AT 0830 HOURS IST OF 9 JUNE 2015 OVER EASTCENTRAL AND ADJOINING NORTHWEST & WESTCENTRAL ARABIAN SEA NEAR LATITUDE 20.0° N AND LONGITUDE 65.0° E, ABOUT 830 KM WEST OF MUMBAI (43003), 570 KM WEST-SOUTHWEST OF VERAVAL (42909), 640 KM EAST-SOUTHEAST OF SUR (41268) (OMAN) AND 800 KM EAST-SOUTHEAST OF MUSCAT (41256) (OMAN). THE SYSTEM WOULD INTENSIFY FURTHER INTO A SEVERE CYCLONIC STORM, MOVE INITIALLY NORTHWESTWARDS DURING NEXT 24 HOURS AND WEST-NORTHWESTWARDS TOWARDS OMAN COAST THEREAFTER. IT WOULD CROSS OMAN COAST AS A CYCLONIC STORM BETWEEN SUR AND MINA SULTAN QABOOS (MUSCAT) NEAR LATITUDE 23.0° N AND LONGITUDE 59.0° E AROUND NIGHT OF 11 JUNE 2015.

ACCORDING TO SATELLITE IMAGERIES, THE INTENSITY OF THE SYSTEM IS T 2.5. ASSOCIATED BROKEN LOW AND MEDIUM CLOUDS EMBEDDED WITH INTENSE TO VERY INTENSE CONVECTION IS SEEN OVER THE AREA BETWEEN LATITUDE 17.0° NORTH & 22.0° NORTH AND LONGITUDE 59.0° EAST & 66.0° EAST. THE LOWEST CLOUD TOP TEMPERATURE (CTT) IS ABOUT -93° C. MAXIMUM SUSTAINED SURFACE WIND SPEED IS ESTIMATED TO BE ABOUT 35 KNOTS GUSTING TO 45 KNOTS AROUND THE SYSTEM CENTRE. THE STATE OF THE SEA IS VERY ROUGH TO HIGH AROUND THE SYSTEM CENTRE. THE ESTIMATED CENTRAL PRESSURE IS ABOUT 992 HPA.

**FORECAST TRACK AND INTENSITY OF THE SYSTEM ARE GIVEN IN THE TABLE BELOW:**

| <b>Date/Time(UTC)</b> | <b>Position<br/>(Lat. °N/ long. °E)</b> | <b>Maximum sustained surface<br/>wind speed (kmph)</b> | <b>Category of cyclonic<br/>disturbance</b> |
|-----------------------|---|--|---|
| 09.06.2015/0300       | 20.0/65.0                               | 60-70 gusting to 80                                    | CYCLONIC STORM                              |
| 09.06.2015/0600       | 20.2/64.5                               | 60-70 gusting to 80                                    | CYCLONIC STORM                              |
| 09.06.2015/1200       | 20.4/64.1                               | 80-90 gusting to 100                                   | CYCLONIC STORM                              |
| 09.06.2015/1800       | 20.7/63.7                               | 80-90 gusting to 100                                   | CYCLONIC STORM                              |
| 10.06.2015/0000       | 21.1/63.2                               | 95-105 gusting to 120                                  | SEVERE CYCLONIC<br>STORM                    |
| 10.06.2015/1200       | 21.5/62.3                               | 95-105 gusting to 120                                  | SEVERE CYCLONIC<br>STORM                    |

|                 |           |                      |                 |
|-----------------|-----------|----------------------|-----------------|
| 11.06.2015/0000 | 22.0/61.3 | 80-90 gusting to 100 | CYCLONIC STORM  |
| 11.06.2015/1200 | 22.4/60.3 | 60-70 gusting to 80  | CYCLONIC STORM  |
| 12.06.2015/0000 | 22.7/59.3 | 60-70 gusting to 80  | CYCLONIC STORM  |
| 12.06.2015/1200 | 23.0/58.3 | 40-50 gusting to 60  | DEEP DEPRESSION |

**REMARKS:**

THE SEA SURFACE TEMPERATURE IS BETWEEN 30-31°C, OCEAN THERMAL ENERGY IS ABOUT 100-130 KJ/CM<sup>2</sup>, LOW LEVEL CONVERGENCE IS (10-20)X10<sup>-5</sup> SECOND<sup>-1</sup>, UPPER LEVEL DIVERGENCE IS ABOUT (20-30)X10<sup>-5</sup> SECOND<sup>-1</sup>, THE LOW LEVEL RELATIVE VORTICITY IS ABOUT (15-25)X10<sup>-5</sup> SECOND<sup>-1</sup>, VERTICAL WIND SHEAR IS MODERATE (15-25 KNOTS). UPPER TROPOSPHERIC RIDGE LIES ALONG 22.0°N. THE MADDEN-JULIAN OSCILLATION LIES IN PHASE-2 WITH AMPLITUDE > 1 AND IS FAVOURABLE FOR FURTHER INTENSIFICATION OF THE SYSTEM.

ABOVE SYNOPTIC AND ENVIRONMENTAL CONDITIONS, AS WELL AS NUMERICAL WEATHER PREDICTION MODEL GUIDANCE SUGGEST THAT THE CYCLONIC STORM WOULD MOVE NORTH-NORTHWESTWARDS AND INTENSIFY INTO A SEVERE CYCLONIC STORM DURING NEXT 24 HOURS AND IT WOULD MOVE NORTHWESTERLY THEREAFTER.

**THE NEXT BULLETIN WILL BE ISSUED AT 0900 UTC OF 9 JUNE 2015.**

(CHARAN SINGH)  
SCIENTIST 'E'  
Ph: 011-24631913

TOO/ 09/1330 HRS IST





Earth System Science Organisation  
Ministry of Earth Sciences  
India Meteorological Department

**TROPICAL CYCLONE ADVISORY BULLETIN**

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

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

**RSMC – TROPICAL CYCLONES, NEW DELHI**

TROPICAL STORM 'ASHOBAA' ADVISORY NO.TEN ISSUED AT 0900 UTC OF 9 JUNE 2015  
BASED ON 0600 UTC CHARTS.

THE CYCLONIC STORM (ASHOBAA) OVER EASTCENTRAL AND ADJOINING NORTHWEST & WESTCENTRAL ARABIAN SEA MOVED SLOWLY IN NORTHWESTWARD DIRECTION DURING PAST 6 HOURS AND LAY CENTRED AT 0600 UTC OF 9 JUNE 2015 NEAR LATITUDE 20.3° N AND LONGITUDE 64.6° E, ABOUT 860 KM WEST OF MUMBAI (43003), 606 KM WEST-SOUTHWEST OF VERAVAL (42909), 570 KM EAST-SOUTHEAST OF SUR (41268) (OMAN) AND 730 KM EAST-SOUTHEAST OF MUSCAT (41256) (OMAN). THE SYSTEM WOULD INTENSIFY FURTHER INTO A SEVERE CYCLONIC STORM, MOVE NORTHWESTWARDS DURING NEXT 24 HOURS AND WEST-NORTHWESTWARDS TOWARDS OMAN COAST DURING SUBSEQUENT 24 HOURS. IT WOULD CROSS OMAN COAST AS A CYCLONIC STORM BETWEEN SUR AND MINA SULTAN QABOOS (MUSCAT) NEAR LATITUDE 23.0° N AND LONGITUDE 59.0° E AROUND NIGHT OF 11 JUNE 2015.

ACCORDING TO SATELLITE IMAGERIES, THE INTENSITY OF THE SYSTEM IS T 2.5. ASSOCIATED BROKEN LOW AND MEDIUM CLOUDS EMBEDDED WITH INTENSE TO VERY INTENSE CONVECTION IS SEEN OVER THE AREA BETWEEN LATITUDE 18.0° NORTH & 22.0° NORTH AND LONGITUDE 59.0° EAST & 66.0° EAST. THE LOWEST CLOUD TOP TEMPERATURE (CTT) IS ABOUT -84° C. MAXIMUM SUSTAINED SURFACE WIND SPEED IS ESTIMATED TO BE ABOUT 35 KNOTS GUSTING TO 45 KNOTS AROUND THE SYSTEM CENTRE. THE STATE OF THE SEA IS VERY ROUGH TO HIGH AROUND THE SYSTEM CENTRE. THE ESTIMATED CENTRAL PRESSURE IS ABOUT 990 HPA.

**FORECAST TRACK AND INTENSITY OF THE SYSTEM ARE GIVEN IN THE TABLE BELOW:**

| <b>Date/Time(UTC)</b> | <b>Position<br/>(Lat. °N/ long. °E)</b> | <b>Maximum sustained surface<br/>wind speed (kmph)</b> | <b>Category of cyclonic<br/>disturbance</b> |
|-----------------------|---|--|---|
| 09.06.2015/0600       | 20.3/64.6                               | 60-70 gusting to 80                                    | Cyclonic Storm                              |
| 09.06.2015/1200       | 20.7/64.1                               | 70-80 gusting to 90                                    | Cyclonic Storm                              |
| 09.06.2015/1800       | 20.9/63.1                               | 80-90 gusting to 100                                   | Cyclonic Storm                              |
| 10.06.2015/0000       | 21.2/63.2                               | 95-105 gusting to 120                                  | Severe Cyclonic Storm                       |
| 10.06.2015/0600       | 21.4/62.7                               | 95-105 gusting to 120                                  | Severe Cyclonic Storm                       |
| 10.06.2015/1800       | 21.8/61.8                               | 95-105 gusting to 120                                  | Severe Cyclonic Storm                       |
| 11.06.2015/0600       | 22.2/60.8                               | 70-80 gusting to 90                                    | Cyclonic Storm                              |
| 11.06.2015/1800       | 22.6/59.8                               | 60-70 gusting to 80                                    | Cyclonic Storm                              |
| 12.06.2015/0600       | 23.0/58.8                               | 40-50 gusting to 60                                    | Deep Depression                             |
| 12.06.2015/1800       | 23.3/57.8                               | 40-50 gusting to 60                                    | Deep Depression                             |

**REMARKS:**

THE SEA SURFACE TEMPERATURE IS BETWEEN 30-31°C, OCEAN THERMAL ENERGY IS ABOUT 90-120 KJ/CM<sup>2</sup>, LOW LEVEL CONVERGENCE IS (10-20)X10<sup>-5</sup> SECOND<sup>-1</sup>, UPPER LEVEL DIVERGENCE IS ABOUT (20-30)X10<sup>-5</sup> SECOND<sup>-1</sup>, THE LOW LEVEL RELATIVE VORTICITY IS ABOUT (15-25)X10<sup>-5</sup> SECOND<sup>-1</sup>, VERTICAL WIND SHEAR IS MODERATE (15-25 KNOTS). UPPER TROPOSPHERIC RIDGE LIES ALONG 22.0°N. THE MADDEN-JULIAN OSCILLATION LIES IN PHASE-2 WITH AMPLITUDE > 1 AND IS FAVOURABLE FOR FURTHER INTENSIFICATION OF THE SYSTEM.

ABOVE SYNOPTIC AND ENVIRONMENTAL CONDITIONS, AS WELL AS NUMERICAL WEATHER PREDICTION MODEL GUIDANCE SUGGEST THAT THE CYCLONIC STORM WOULD MOVE NORTHWESTWARDS AND INTENSIFY INTO A SEVERE CYCLONIC STORM DURING NEXT 24 HOURS AND IT WOULD MOVE WEST-NORTHWESTERLY THEREAFTER.

**THE NEXT BULLETIN WILL BE ISSUED AT 1200 UTC OF 9 JUNE 2015.**

(CHARAN SINGH)  
SCIENTIST 'E'  
Ph: 011-24631913

TOO/ 09/1530 HRS IST



**Earth System Science Organisation  
Ministry of Earth Sciences  
India Meteorological Department**

**TROPICAL CYCLONE ADVISORY BULLETIN**

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

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

TROPICAL STORM 'ASHOBAA' ADVISORY NO. ELEVEN ISSUED AT 1200 UTC OF 9 JUNE 2015  
BASED ON 0900 UTC CHARTS.

THE CYCLONIC STORM (ASHOBAA) OVER NORTHWEST ARABIAN SEA AND ADJOINING AREA MOVED NEARLY NORTHWESTWARDS DURING PAST 12 HOURS AND LAY CENTRED AT 1430 HOURS IST OF 9 JUNE 2015 NEAR LATITUDE 20.5<sup>0</sup> N AND LONGITUDE 63.8<sup>0</sup> E, ABOUT 920 KM WEST OF MUMBAI (43003), 670 KM WEST-SOUTHWEST OF VERAVAL (42909), 510 KM EAST-SOUTHEAST OF SUR (41268) AND 660 KM EAST-SOUTHEAST OF MUSCAT (41256). THE SYSTEM WOULD INTENSIFY FURTHER INTO A SEVERE CYCLONIC STORM, MOVE NORTHWESTWARDS DURING NEXT 24 HOURS AND WEST-NORTHWESTWARDS TOWARDS OMAN COAST THEREAFTER. IT WOULD CROSS OMAN COAST AS A CYCLONIC STORM BETWEEN SUR AND MINA SULTAN QABOOS (MUSCAT) NEAR LATITUDE 23.0<sup>0</sup> N AND LONGITUDE 59.0<sup>0</sup> E AROUND NIGHT OF 11 JUNE 2015.

ACCORDING TO SATELLITE IMAGERIES, THE INTENSITY OF THE SYSTEM IS T 3.0. ASSOCIATED BROKEN LOW/MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION OVER AREA BETWEEN LATITUDE 17.0 N TO 22.0 N WEST OF LONGITUDE 66.0 E. THE SYSTEM IS OF CURVED BAND PATTERN AND COVER 0.6 OF 10 DEGREE LOG SPIRAL. MAXIMUM SUSTAINED SURFACE WIND SPEED IS ESTIMATED TO BE ABOUT 40 KNOTS GUSTING TO 50 KNOTS AROUND THE SYSTEM CENTRE. THE STATE OF THE SEA IS VERY ROUGH TO HIGH AROUND THE SYSTEM CENTRE. THE ESTIMATED CENTRAL PRESSURE IS ABOUT 990 HPA.

**FORECAST TRACK AND INTENSITY OF THE SYSTEM ARE GIVEN IN THE TABLE BELOW:**

| <b>Date/Time(UTC)</b> | <b>Position<br/>(Lat. °N/ long. °E)</b> | <b>Maximum sustained surface<br/>wind speed (kmph)</b> | <b>Category of cyclonic<br/>disturbance</b> |
|-----------------------|---|--|---|
| 09.06.2015/0900       | 20.5/63.8                               | 80-90 gusting to 100                                   | Cyclonic Storm                              |
| 09.06.2015/1500       | 20.7/63.5                               | 80-90 gusting to 100                                   | Cyclonic Storm                              |
| 10.06.2015/2100       | 20.9/63.3                               | 80-90 gusting to 100                                   | Cyclonic Storm                              |
| 10.06.2015/0300       | 21.1/63.0                               | 95-105 gusting to 120                                  | Severe Cyclonic Storm                       |
| 10.06.2015/0900       | 21.4/62.6                               | 95-105 gusting to 120                                  | Severe Cyclonic Storm                       |
| 10.06.2015/2100       | 21.9/61.6                               | 95-105 gusting to 120                                  | Severe Cyclonic Storm                       |
| 11.06.2015/0900       | 22.3/60.6                               | 80-90 gusting to 100                                   | Cyclonic Storm                              |
| 11.06.2015/2100       | 22.7/59.4                               | 70-80 gusting to 90                                    | Cyclonic Storm                              |
| 12.06.2015/0900       | 23.0/58.6                               | 50-60 gusting to 70                                    | Deep Depression                             |

**REMARKS:**

THE SEA SURFACE TEMPERATURE IS BETWEEN 30-31°C, OCEAN THERMAL ENERGY IS ABOUT 90-120 KJ/CM<sup>2</sup>, LOW LEVEL CONVERGENCE IS (10-20)X10<sup>-5</sup> SECOND<sup>-1</sup>, UPPER LEVEL DIVERGENCE IS ABOUT (20-30)X10<sup>-5</sup> SECOND<sup>-1</sup>, THE LOW LEVEL RELATIVE VORTICITY IS ABOUT (15-25)X10<sup>-5</sup> SECOND<sup>-1</sup>, VERTICAL WIND SHEAR IS MODERATE (15-25 KNOTS). UPPER TROPOSPHERIC RIDGE LIES ALONG 22.0°N. THE MADDEN-JULIAN OSCILLATION LIES IN PHASE-2 WITH AMPLITUDE > 1 AND IS FAVOURABLE FOR FURTHER INTENSIFICATION OF THE SYSTEM.

ABOVE SYNOPTIC AND ENVIRONMENTAL CONDITIONS, AS WELL AS NUMERICAL WEATHER PREDICTION MODEL GUIDANCE SUGGEST THAT THE CYCLONIC STORM WOULD MOVE NORTHWESTWARDS AND INTENSIFY INTO A SEVERE CYCLONIC STORM DURING NEXT 24 HOURS AND IT WOULD MOVE WEST-NORTHWESTERLY THEREAFTER.

**THE NEXT BULLETIN WILL BE ISSUED AT 1500 UTC OF 9 JUNE 2015.**

(CHARAN SINGH)  
SCIENTIST 'E'  
Ph: 011-24631913

TOO/ 09/1730 HRS IST



**Earth System Science Organisation  
Ministry of Earth Sciences  
India Meteorological Department**

**TROPICAL CYCLONE ADVISORY BULLETIN**

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

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

TROPICAL STORM 'ASHOBAA' ADVISORY NO. TWELVE ISSUED AT 1500 UTC OF 9 JUNE 2015 BASED ON 1200 UTC CHARTS.

THE CYCLONIC STORM (ASHOBAA) OVER NORTHWEST ARABIAN SEA AND ADJOINING AREA MOVED NEARLY WEST-NORTHWESTWARDS DURING PAST 6 HOURS AND LAY CENTRED AT 1200 UTC OF 9 JUNE 2015 NEAR LATITUDE 21.0° N AND LONGITUDE 63.0° E, ABOUT 1050 KM WEST-NORTHWEST OF MUMBAI (43003), 760 KM WEST OF VERAVAL (42909), 400 KM EAST-SOUTHEAST OF SUR (41268) (OMAN) AND 560 KM EAST-SOUTHEAST OF MUSCAT (41256) (OMAN). THE SYSTEM WOULD INTENSIFY FURTHER INTO A SEVERE CYCLONIC STORM, MOVE NEARLY NORTHWESTWARDS DURING NEXT 24 HOURS AND WEST-NORTHWESTWARDS TOWARDS OMAN COAST THEREAFTER. THE SYSTEM WOULD CROSS OMAN COAST BETWEEN LATITUDE 21.5° N AND LATITUDE 23.0° N NEAR RAS AL HADD (22.3° N/59.8° E) DURING THE NIGHT OF 11 JUNE 2015.

ACCORDING TO SATELLITE IMAGERIES, THE INTENSITY OF THE SYSTEM IS T 3.0. ASSOCIATED BROKEN LOW AND MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION OVER AREA BETWEEN LATITUDE 18.0° N AND 22.5° N AND WEST OF LONGITUDE 65.0° EAST. THE SYSTEM IS HAVING CURVED BAND PATTERN. THE LOWEST CLOUD-TOP TEMPERATURE IS -88 DEG C. MAXIMUM SUSTAINED SURFACE WIND SPEED IS ESTIMATED TO BE ABOUT 40 KNOTS GUSTING TO 50 KNOTS AROUND THE SYSTEM CENTRE. THE STATE OF THE SEA IS VERY ROUGH TO HIGH AROUND THE SYSTEM CENTRE. THE ESTIMATED CENTRAL PRESSURE IS ABOUT 990 HPA.

**FORECAST TRACK AND INTENSITY OF THE SYSTEM ARE GIVEN IN THE TABLE BELOW:**

| <b>Date/Time(UTC)</b> | <b>Position<br/>(Lat. °N/ long. °E)</b> | <b>Maximum sustained surface<br/>wind speed (kmph)</b> | <b>Category of cyclonic<br/>disturbance</b> |
|-----------------------|---|--|---|
| 09.06.2015/1200       | 21.0/63.0                               | 80-90 gusting to 100                                   | Cyclonic Storm                              |
| 09.06.2015/1800       | 21.2/62.6                               | 80-90 gusting to 100                                   | Cyclonic Storm                              |
| 10.06.2015/0000       | 21.4/62.2                               | 80-90 gusting to 100                                   | Cyclonic Storm                              |
| 10.06.2015/0600       | 21.6/61.8                               | 95-105 gusting to 120                                  | Severe Cyclonic Storm                       |
| 10.06.2015/1200       | 21.8/61.4                               | 95-105 gusting to 120                                  | Severe Cyclonic Storm                       |
| 11.06.2015/0000       | 22.0/60.7                               | 95-105 gusting to 120                                  | Severe Cyclonic Storm                       |
| 11.06.2015/1200       | 22.2/60.0                               | 80-90 gusting to 100                                   | Cyclonic Storm                              |
| 12.06.2015/0000       | 22.4/59.1                               | 70-80 gusting to 90                                    | Cyclonic Storm                              |
| 12.06.2015/1200       | 22.6/58.1                               | 50-60 gusting to 70                                    | Deep Depression                             |

**REMARKS:**

THE SEA SURFACE TEMPERATURE IS BETWEEN 30-31°C, OCEAN THERMAL ENERGY IS ABOUT 90-120 KJ/CM<sup>2</sup>, LOW LEVEL CONVERGENCE IS (10-20)X10<sup>-5</sup> SECOND<sup>-1</sup>, UPPER LEVEL DIVERGENCE IS ABOUT (20-30)X10<sup>-5</sup> SECOND<sup>-1</sup>, THE LOW LEVEL RELATIVE VORTICITY IS ABOUT (15-25)X10<sup>-5</sup> SECOND<sup>-1</sup>, VERTICAL WIND SHEAR IS MODERATE (15-25 KNOTS). UPPER TROPOSPHERIC RIDGE LIES ALONG LATITUDE 22.0°N. THE MADDEN-JULIAN OSCILLATION LIES IN PHASE-2 WITH AMPLITUDE > 1 AND IS FAVOURABLE FOR FURTHER INTENSIFICATION OF THE SYSTEM.

ABOVE SYNOPTIC AND ENVIRONMENTAL CONDITIONS, AS WELL AS NUMERICAL WEATHER PREDICTION MODEL GUIDANCE SUGGEST THAT THE CYCLONIC STORM WOULD MOVE NEARLY NORTHWESTWARDS AND INTENSIFY INTO A SEVERE CYCLONIC STORM DURING NEXT 24 HOURS AND IT WOULD MOVE WEST-NORTHWESTWARD THEREAFTER.

**THE NEXT BULLETIN WILL BE ISSUED AT 1800 UTC OF 9 JUNE 2015.**

(CHARAN SINGH)  
SCIENTIST 'E'  
Ph: 011-24631913

TOO/ 09/2030 HRS IST



Earth System Science Organisation  
Ministry of Earth Sciences  
India Meteorological Department

**TROPICAL CYCLONE ADVISORY BULLETIN**

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

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

TROPICAL STORM 'ASHOBAA' ADVISORY NO. THIRTEEN ISSUED AT 1800 UTC OF 9 JUNE 2015 BASED ON 1500 UTC CHARTS.

THE CYCLONIC STORM (ASHOBAA) OVER NORTHWEST ARABIAN SEA AND ADJOINING AREA MOVED NEARLY WEST-NORTHWESTWARDS DURING PAST 6 HOURS AND LAY CENTRED AT 1500 UTC OF 9 JUNE 2015 NEAR LATITUDE 21.2° N AND LONGITUDE 62.5° E, ABOUT 1100 KM WEST-NORTHWEST OF MUMBAI (43003), 810 KM WEST OF VERAVAL (42909), 350 KM SOUTHEAST OF SUR (41268) (OMAN) AND 510 KM SOUTHEAST OF MUSCAT (41256) (OMAN). THE SYSTEM WOULD INTENSIFY FURTHER INTO A SEVERE CYCLONIC STORM, MOVE NEARLY NORTHWESTWARDS DURING NEXT 24 HOURS AND WEST-NORTHWESTWARDS TOWARDS OMAN COAST THEREAFTER. THE CYCLONIC STORM WOULD CROSS OMAN COAST BETWEEN LATITUDE 21.5° N AND LATITUDE 23.0° N NEAR RAS AL HADD (22.3° N/59.8° E) DURING THE NIGHT OF 11 JUNE 2015.

ACCORDING TO SATELLITE IMAGERIES, THE INTENSITY OF THE SYSTEM IS T 3.0. ASSOCIATED BROKEN LOW AND MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION OVER AREA BETWEEN LATITUDE 18.0° N AND 22.5° N AND WEST OF LONGITUDE 64.0° EAST. THE SYSTEM IS HAVING CURVED BAND PATTERN. THE LOWEST CLOUD-TOP TEMPERATURE IS -92 DEG C. MAXIMUM SUSTAINED SURFACE WIND SPEED IS ESTIMATED TO BE ABOUT 40 KNOTS GUSTING TO 50 KNOTS AROUND THE SYSTEM CENTRE. THE STATE OF THE SEA IS VERY ROUGH TO HIGH AROUND THE SYSTEM CENTRE. THE ESTIMATED CENTRAL PRESSURE IS ABOUT 990 HPA.

**FORECAST TRACK AND INTENSITY OF THE SYSTEM ARE GIVEN IN THE TABLE BELOW:**

| <b>Date/Time(UTC)</b> | <b>Position<br/>(Lat. °N/ long. °E)</b> | <b>Maximum sustained surface<br/>wind speed (kmph)</b> | <b>Category of cyclonic<br/>disturbance</b> |
|-----------------------|---|--|---|
| 09.06.2015/1500       | 21.2/62.5                               | 80-90 gusting to 100                                   | Cyclonic Storm                              |
| 09.06.2015/1800       | 21.3/62.3                               | 80-90 gusting to 100                                   | Cyclonic Storm                              |
| 10.06.2015/0000       | 21.4/62.1                               | 80-90 gusting to 100                                   | Cyclonic Storm                              |
| 10.06.2015/0600       | 21.6/61.8                               | 95-105 gusting to 120                                  | Severe Cyclonic Storm                       |
| 10.06.2015/1200       | 21.8/61.4                               | 95-105 gusting to 120                                  | Severe Cyclonic Storm                       |
| 11.06.2015/0000       | 22.0/60.7                               | 95-105 gusting to 120                                  | Severe Cyclonic Storm                       |
| 11.06.2015/1200       | 22.2/60.0                               | 80-90 gusting to 100                                   | Cyclonic Storm                              |
| 12.06.2015/0000       | 22.4/59.1                               | 70-80 gusting to 90                                    | Cyclonic Storm                              |
| 12.06.2015/1200       | 22.6/58.1                               | 50-60 gusting to 70                                    | Deep Depression                             |

**REMARKS:**

THE SEA SURFACE TEMPERATURE IS BETWEEN 30-31°C, OCEAN THERMAL ENERGY IS ABOUT 90-120 KJ/CM<sup>2</sup>, LOW LEVEL CONVERGENCE IS (10-20)X10<sup>-5</sup> SECOND<sup>-1</sup>, UPPER LEVEL DIVERGENCE IS ABOUT (20-30)X10<sup>-5</sup> SECOND<sup>-1</sup>, THE LOW LEVEL RELATIVE VORTICITY IS ABOUT (15-25)X10<sup>-5</sup> SECOND<sup>-1</sup>, VERTICAL WIND SHEAR IS MODERATE (15-25 KNOTS). UPPER TROPOSPHERIC RIDGE LIES ALONG LATITUDE 22.0°N. THE MADDEN-JULIAN OSCILLATION LIES IN PHASE-2 WITH AMPLITUDE > 1 AND IS FAVOURABLE FOR FURTHER INTENSIFICATION OF THE SYSTEM.

ABOVE SYNOPTIC AND ENVIRONMENTAL CONDITIONS, AS WELL AS NUMERICAL WEATHER PREDICTION MODEL GUIDANCE SUGGEST THAT THE CYCLONIC STORM WOULD MOVE NEARLY NORTHWESTWARDS AND INTENSIFY INTO A SEVERE CYCLONIC STORM DURING NEXT 24 HOURS AND IT WOULD MOVE WEST-NORTHWESTWARD THEREAFTER.

**THE NEXT BULLETIN WILL BE ISSUED AT 2100 UTC OF 9 JUNE 2015.**

(A.K.DAS)  
SCIENTIST 'D'  
Ph: 011-24631913

TOO/ 09/2330 HRS IST





**Earth System Science Organisation  
Ministry of Earth Sciences  
India Meteorological Department**

**TROPICAL CYCLONE ADVISORY BULLETIN**

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

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

TROPICAL STORM 'ASHOBAA' ADVISORY NO. FOURTEEN ISSUED AT 2100 UTC OF 9 JUNE 2015 BASED ON 1800 UTC CHARTS.

THE CYCLONIC STORM (ASHOBAA) OVER NORTHWEST ARABIAN SEA AND ADJOINING AREA MOVED WEST-NORTHWESTWARDS DURING PAST 6 HOURS AND LAY CENTRED AT 1800 UTC OF 9 JUNE 2015 NEAR LATITUDE 21.2° N AND LONGITUDE 62.5° E, ABOUT 1100 KM WEST-NORTHWEST OF MUMBAI (43003), 810 KM WEST OF VERAVAL (42909), 350 KM SOUTHEAST OF SUR (41268) (OMAN) AND 510 KM SOUTHEAST OF MUSCAT (41256) (OMAN). THE SYSTEM WOULD INTENSIFY FURTHER INTO A SEVERE CYCLONIC STORM, MOVE WEST-NORTHWESTWARDS DURING NEXT 24 HOURS. THEREAFTER, THE SYSTEM WOULD MOVE WEST-NORTHWESTWARD TO CROSS OMAN COAST BETWEEN LATITUDE 21.5° N AND LATITUDE 23.0° N NEAR RAS AL HADD (22.3° N/59.8° E) DURING THE NIGHT OF 11 JUNE 2015.

ACCORDING TO SATELLITE IMAGERIES, THE INTENSITY OF THE SYSTEM IS T 3.0. ASSOCIATED BROKEN LOW AND MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION OVER AREA BETWEEN LATITUDE 18.5° N AND 22.5° N AND WEST OF LONGITUDE 64.0° EAST. THE SYSTEM IS HAVING CURVED BAND PATTERN. THE LOWEST CLOUD-TOP TEMPERATURE IS -88 DEG C. MAXIMUM SUSTAINED SURFACE WIND SPEED IS ESTIMATED TO BE ABOUT 45 KNOTS GUSTING TO 55 KNOTS AROUND THE SYSTEM CENTRE. THE STATE OF THE SEA IS VERY ROUGH TO HIGH AROUND THE SYSTEM CENTRE. THE ESTIMATED CENTRAL PRESSURE IS ABOUT 990 HPA.

**FORECAST TRACK AND INTENSITY OF THE SYSTEM ARE GIVEN IN THE TABLE BELOW:**

| <b>Date/Time(UTC)</b> | <b>Position<br/>(Lat. °N/ long. °E)</b> | <b>Maximum sustained surface<br/>wind speed (kmph)</b> | <b>Category of cyclonic<br/>disturbance</b> |
|-----------------------|---|--|---|
| 09.06.2015/1800       | 21.2/62.5                               | 80-90 GUSTING TO 100                                   | CYCLONIC STORM                              |
| 10.06.2015/0000       | 21.4/62.1                               | 80-90 GUSTING TO 100                                   | CYCLONIC STORM                              |
| 10.06.2015/0600       | 21.6/61.8                               | 95-105 GUSTING TO 120                                  | SEVERE CYCLONIC<br>STORM                    |
| 10.06.2015/1200       | 21.7/61.5                               | 95-105 GUSTING TO 120                                  | SEVERE CYCLONIC<br>STORM                    |
| 10.06.2015/1800       | 21.9/61.1                               | 95-105 GUSTING TO 120                                  | SEVERE CYCLONIC<br>STORM                    |
| 11.06.2015/0600       | 22.1/60.3                               | 80-90 GUSTING TO 100                                   | CYCLONIC STORM                              |
| 11.06.2015/1800       | 22.3/59.5                               | 60-70 GUSTING TO 80                                    | CYCLONIC STORM                              |

|                 |           |                     |                 |
|-----------------|-----------|---------------------|-----------------|
| 12.06.2015/0600 | 22.5/58.6 | 55-65 GUSTING TO 75 | DEEP DEPRESSION |
| 12.06.2015/1800 | 22.7/57.6 | 40-50 GUSTING TO 60 | DEPRESSION      |

**REMARKS:**

THE SEA SURFACE TEMPERATURE IS BETWEEN 30-31°C, OCEAN THERMAL ENERGY IS ABOUT 90-120 KJ/CM<sup>2</sup>, LOW LEVEL CONVERGENCE IS (10-20) X10<sup>-5</sup> SECOND<sup>-1</sup>, UPPER LEVEL DIVERGENCE IS ABOUT (20-30)X10<sup>-5</sup> SECOND<sup>-1</sup>, THE LOW LEVEL RELATIVE VORTICITY IS ABOUT (15-25)X10<sup>-5</sup> SECOND<sup>-1</sup>, VERTICAL WIND SHEAR IS MODERATE (10-20 KNOTS). UPPER TROPOSPHERIC RIDGE LIES ALONG LATITUDE 22.5°N. THE MADDEN-JULIAN OSCILLATION LIES IN PHASE-2 WITH AMPLITUDE > 1 AND IS FAVOURABLE FOR FURTHER INTENSIFICATION OF THE SYSTEM.

ABOVE SYNOPTIC AND ENVIRONMENTAL CONDITIONS, AS WELL AS NUMERICAL WEATHER PREDICTION MODEL GUIDANCE SUGGEST THAT THE SYSTEM WOULD MOVE WEST-NORTHWESTWARDS AND INTENSIFY INTO A SEVERE CYCLONIC STORM DURING NEXT 24 HOURS AND WOULD CONTINUE ITS WEST-NORTHWESTWARD MOVEMENT THEREAFTER.

**THE NEXT BULLETIN WILL BE ISSUED AT 0000 UTC OF 10 JUNE 2015.**

(A.K.DAS)  
SCIENTIST 'D'  
Ph: 011-24631913

TOO/ 10/0200 HRS IST



**Earth System Science Organisation  
Ministry of Earth Sciences  
India Meteorological Department**

**TROPICAL CYCLONE ADVISORY BULLETIN**

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

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

TROPICAL STORM 'ASHOBAA' ADVISORY NO. FIFTEEN ISSUED AT 0000 UTC OF 10 JUNE 2015 BASED ON 2100 UTC OF 9 JUNE 2015 CHARTS.

THE CYCLONIC STORM (ASHOBAA) OVER NORTHWEST ARABIAN SEA AND ADJOINING AREA MOVED WEST-NORTHWESTWARDS DURING PAST 6 HOURS AND LAY CENTRED AT 2100UTC OF 9 JUNE 2015 NEAR LATITUDE 21.3° N AND LONGITUDE 62.3° E, ABOUT 1130 KM WEST-NORTHWEST OF MUMBAI (43003), 840 KM WEST OF VERAVAL (42909), 320 KM SOUTHEAST OF SUR (41268) (OMAN) AND 480 KM SOUTHEAST OF MUSCAT (41256) (OMAN). THE SYSTEM WOULD INTENSIFY FURTHER INTO A SEVERE CYCLONIC STORM, MOVE WEST-NORTHWESTWARDS DURING NEXT 24 HOURS. THEREAFTER, THE SYSTEM WOULD MOVE WEST-NORTHWESTWARDS TO CROSS OMAN COAST BETWEEN LATITUDE 21.5° N AND LATITUDE 23.0° N NEAR RAS AL HADD (22.3° N/59.8° E) DURING THE NIGHT OF 11 JUNE 2015.

ACCORDING TO SATELLITE IMAGERIES, THE INTENSITY OF THE SYSTEM IS T 3.0. ASSOCIATED BROKEN LOW AND MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION OVER AREA BETWEEN LATITUDE 18.5° N AND 22.5° N AND WEST OF LONGITUDE 64.0° EAST. THE SYSTEM IS HAVING CURVED BAND PATTERN. THE LOWEST CLOUD-TOP TEMPERATURE IS -88 DEG C. MAXIMUM SUSTAINED SURFACE WIND SPEED IS ESTIMATED TO BE ABOUT 45 KNOTS GUSTING TO 55 KNOTS AROUND THE SYSTEM CENTRE. THE STATE OF THE SEA IS VERY ROUGH TO HIGH AROUND THE SYSTEM CENTRE. THE ESTIMATED CENTRAL PRESSURE IS ABOUT 990 HPA.

**FORECAST TRACK AND INTENSITY OF THE SYSTEM ARE GIVEN IN THE TABLE BELOW:**

| <b>Date/Time(UTC)</b> | <b>Position<br/>(Lat. °N/ long. °E)</b> | <b>Maximum sustained surface<br/>wind speed (kmph)</b> | <b>Category of cyclonic<br/>disturbance</b> |
|-----------------------|---|--|---|
| 09.06.2015/2100       | 21.3/62.3                               | 80-90 GUSTING TO 100                                   | CYCLONIC STORM                              |
| 10.06.2015/0000       | 21.4/62.1                               | 80-90 GUSTING TO 100                                   | CYCLONIC STORM                              |
| 10.06.2015/0600       | 21.6/61.8                               | 95-105 GUSTING TO 120                                  | SEVERE CYCLONIC<br>STORM                    |
| 10.06.2015/1200       | 21.7/61.5                               | 95-105 GUSTING TO 120                                  | SEVERE CYCLONIC<br>STORM                    |
| 10.06.2015/1800       | 21.9/61.1                               | 95-105 GUSTING TO 120                                  | SEVERE CYCLONIC<br>STORM                    |
| 11.06.2015/0600       | 22.1/60.3                               | 80-90 GUSTING TO 100                                   | CYCLONIC STORM                              |
| 11.06.2015/1800       | 22.3/59.5                               | 60-70 GUSTING TO 80                                    | CYCLONIC STORM                              |

|                 |           |                     |                 |
|-----------------|-----------|---------------------|-----------------|
| 12.06.2015/0600 | 22.5/58.6 | 55-65 GUSTING TO 75 | DEEP DEPRESSION |
| 12.06.2015/1800 | 22.7/57.6 | 40-50 GUSTING TO 60 | DEPRESSION      |

**REMARKS:**

THE SEA SURFACE TEMPERATURE IS BETWEEN 30-31°C, OCEAN THERMAL ENERGY IS ABOUT 90-120 KJ/CM<sup>2</sup>, LOW LEVEL CONVERGENCE IS (10-20) X10<sup>-5</sup> SECOND<sup>-1</sup>, UPPER LEVEL DIVERGENCE IS ABOUT (20-30)X10<sup>-5</sup> SECOND<sup>-1</sup>, THE LOW LEVEL RELATIVE VORTICITY IS ABOUT (15-25)X10<sup>-5</sup> SECOND<sup>-1</sup>, VERTICAL WIND SHEAR IS MODERATE (10-20 KNOTS). UPPER TROPOSPHERIC RIDGE LIES ALONG LATITUDE 22.5°N. THE MADDEN-JULIAN OSCILLATION LIES IN PHASE-2 WITH AMPLITUDE > 1 AND IS FAVOURABLE FOR FURTHER INTENSIFICATION OF THE SYSTEM.

ABOVE SYNOPTIC AND ENVIRONMENTAL CONDITIONS, AS WELL AS NUMERICAL WEATHER PREDICTION MODEL GUIDANCE SUGGEST THAT THE SYSTEM WOULD MOVE WEST-NORTHWESTWARDS AND INTENSIFY INTO A SEVERE CYCLONIC STORM DURING NEXT 24 HOURS AND WOULD CONTINUE ITS WEST-NORTHWESTWARD MOVEMENT THEREAFTER.

**THE NEXT BULLETIN WILL BE ISSUED AT 0300 UTC OF 10 JUNE 2015.**

(A.K.DAS)  
SCIENTIST 'D'  
Ph: 011-24631913

TOO/ 10/0530 HRS IST



**Earth System Science Organisation  
Ministry of Earth Sciences  
India Meteorological Department**

**TROPICAL CYCLONE ADVISORY BULLETIN**

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

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

TROPICAL STORM 'ASHOBAA' ADVISORY NO.SIXTEEN ISSUED AT 0300 UTC OF 10 JUNE 2015 BASED ON 0000 UTC OF 10 JUNE 2015 CHARTS.

THE CYCLONIC STORM (ASHOBAA) OVER NORTHWEST ARABIAN SEA AND ADJOINING AREA MOVED WEST-NORTHWESTWARDS DURING PAST 6 HOURS AND LAY CENTRED AT 0530 HOURS IST OF 10 JUNE 2015 NEAR LATITUDE 21.3° N AND LONGITUDE 62.1° E, ABOUT 1150 KM WEST-NORTHWEST OF MUMBAI (43003), 860 KM WEST OF VERAVAL (42909), 310 KM SOUTHEAST OF SUR (41268) (OMAN) AND 470 KM SOUTHEAST OF MUSCAT (41256) (OMAN). THE SYSTEM WOULD INTENSIFY FURTHER INTO A SEVERE CYCLONIC STORM, MOVE WEST-NORTHWESTWARDS DURING NEXT 24 HOURS. THEREAFTER, THE SYSTEM WOULD MOVE WEST-NORTHWESTWARDS TO CROSS OMAN COAST BETWEEN LATITUDE 21.5° N AND LATITUDE 22.5° N SOUTH OF RAS AL HADD DURING THE NIGHT OF 11 JUNE 2015.

ACCORDING TO SATELLITE IMAGERIES, THE INTENSITY OF THE SYSTEM IS T 3.0. ASSOCIATED BROKEN LOW AND MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION OVER AREA BETWEEN LATITUDE 17.0° N AND 23.0° N AND WEST OF LONGITUDE 64.0° EAST. THE SYSTEM IS HAVING CURVED BAND PATTERN. THE LOWEST CLOUD-TOP TEMPERATURE IS -92 DEG C. MAXIMUM SUSTAINED SURFACE WIND SPEED IS ESTIMATED TO BE ABOUT 45 KNOTS GUSTING TO 55 KNOTS AROUND THE SYSTEM CENTRE. THE STATE OF THE SEA IS VERY ROUGH TO HIGH AROUND THE SYSTEM CENTRE. THE ESTIMATED CENTRAL PRESSURE IS ABOUT 990 HPA.

**FORECAST TRACK AND INTENSITY OF THE SYSTEM ARE GIVEN IN THE TABLE BELOW:**

| <b>DATE/TIME(UTC)</b> | <b>POSITION<br/>(LAT. °N/ LONG<br/>°E)</b> | <b>MAXIMUM SUSTAINED<br/>SURFACE<br/>WIND SPEED (KMPH)</b> | <b>CATEGORY OF CYCLONIC<br/>DISTURBANCE</b> |
|-----------------------|--|--|---|
| 10.06.2015/0000       | 21.3/62.1                                  | 80-90 GUSTING TO 105                                       | CYCLONIC STORM                              |
| 10.06.2015/0600       | 21.5/61.8                                  | 95-105 GUSTING TO 120                                      | SEVERE CYCLONIC<br>STORM                    |
| 10.06.2015/1200       | 21.7/61.5                                  | 95-105 GUSTING TO 120                                      | SEVERE CYCLONIC<br>STORM                    |
| 10.06.2015/1800       | 21.9/61.1                                  | 80-90 GUSTING TO 105                                       | CYCLONIC STORM                              |
| 11.06.2015/0000       | 22.0/60.7                                  | 80-90 GUSTING TO 100                                       | CYCLONIC STORM                              |
| 11.06.2015/1200       | 22.2/60.0                                  | 60-70 GUSTING TO 80  | CYCLONIC STORM                              |

|                 |           |                     |                 |
|-----------------|-----------|---------------------|-----------------|
| 12.06.2015/0000 | 22.4/59.0 | 55-65 GUSTING TO 75 | DEEP DEPRESSION |
| 12.06.2015/1200 | 22.6/57.8 | 40-50 GUSTING TO 60 | DEPRESSION      |

**REMARKS:**

THE SEA SURFACE TEMPERATURE IS BETWEEN 30-31°C, OCEAN THERMAL ENERGY IS ABOUT 90-120 KJ/CM<sup>2</sup>, LOW LEVEL CONVERGENCE IS (10-20) X10<sup>-5</sup> SECOND<sup>-1</sup>, UPPER LEVEL DIVERGENCE IS ABOUT (20-30)X10<sup>-5</sup> SECOND<sup>-1</sup>, THE LOW LEVEL RELATIVE VORTICITY IS ABOUT (15-25)X10<sup>-5</sup> SECOND<sup>-1</sup>, VERTICAL WIND SHEAR IS MODERATE (10-20 KNOTS). NEGATIVE SHEAR TENDENCY PREVAILS SOUTH OF THE SYSTEM. UPPER TROPOSPHERIC RIDGE LIES ALONG LATITUDE 21.5°N AND ASSOCIATED ANTICYCLONE NORTHWEST OF THE SYSTEM. THE MADDEN-JULIAN OSCILLATION LIES IN PHASE-2 WITH AMPLITUDE > 1 AND IS FAVOURABLE FOR FURTHER INTENSIFICATION OF THE SYSTEM.

ABOVE SYNOPTIC AND ENVIRONMENTAL CONDITIONS, AS WELL AS NUMERICAL WEATHER PREDICTION MODEL GUIDANCE SUGGEST THAT THE SYSTEM WOULD MOVE NEARLY WESTWARDS AND INTENSIFY INTO A SEVERE CYCLONIC STORM DURING NEXT 12 HOURS AND WOULD CONTINUE TO MOVE IN THE SAME DIRECTION THEREAFTER.

**THE NEXT BULLETIN WILL BE ISSUED AT 0600 UTC OF 10 JUNE 2015.**

(A.K.DAS)  
SCIENTIST 'D'  
Ph: 011-24631913

TOO/ 10/0830 HRS IST



Earth System Science Organisation  
Ministry of Earth Sciences  
India Meteorological Department

**TROPICAL CYCLONE ADVISORY BULLETIN**

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

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

TROPICAL STORM 'ASHOBAA' ADVISORY NO. SEVENTEEN ISSUED AT 0600 UTC OF 10 JUNE 2015 BASED ON 0300 UTC OF 10 JUNE 2015 CHARTS.

THE CYCLONIC STORM (ASHOBAA) OVER NORTHWEST ARABIAN SEA AND ADJOINING AREAS MOVED NEARLY WESTWARDS DURING PAST 6 HOURS AND LAY CENTRED AT 0300 UTC OF 10 JUNE 2015 NEAR LATITUDE 21.3°N AND LONGITUDE 61.8°E, ABOUT 270 KM SOUTHEAST OF SUR (41268) (OMAN) AND 310 KM EAST-NORTHEAST OF MASIRAH (41288) (OMAN). THE SYSTEM MAY INTENSIFY FURTHER INTO A SEVERE CYCLONIC STORM AND MOVE NEARLY WESTWARDS DURING NEXT 12 HOURS. THEREAFTER, THE SYSTEM WOULD CONTINUE TO MOVE IN NEARLY THE SAME DIRECTION AND CROSS OMAN COAST AS A CYCLONIC STORM BETWEEN LATITUDE 21.5° N AND LATITUDE 22.5° N SOUTH OF RAS AL HADD IN THE EVENING OF 11 JUNE 2015.

ACCORDING TO SATELLITE IMAGERIES, THE INTENSITY OF THE SYSTEM IS T 3.0. ASSOCIATED BROKEN LOW AND MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION LIES OVER AREA BETWEEN LATITUDE 17.5° N & 23.0° N AND WEST OF LONGITUDE 64.0° E. THE LOWEST CLOUD-TOP TEMPERATURE IS -88 DEG C. MAXIMUM SUSTAINED SURFACE WIND SPEED IS ESTIMATED TO BE ABOUT 45 KNOTS GUSTING TO 55 KNOTS AROUND THE SYSTEM CENTRE. THE STATE OF THE SEA IS VERY ROUGH TO HIGH AROUND THE SYSTEM CENTRE. THE ESTIMATED CENTRAL PRESSURE IS ABOUT 990 HPA.

**FORECAST TRACK AND INTENSITY OF THE SYSTEM ARE GIVEN IN THE TABLE BELOW:**

| Date/Time(UTC)  | Position (Lat. °N/ long. °E) | Maximum sustained surface wind speed (kmph) | Category of cyclonic disturbance |
|-----------------|------------------------------|---|----------------------------------|
| 10.06.2015/0300 | 21.3/61.8                    | 80-90 gusting to 105                        | Cyclonic Storm                   |
| 10.06.2015/0600 | 21.4/61.5                    | 95-105 gusting to 120                       | Severe Cyclonic Storm            |
| 10.06.2015/1200 | 21.5/61.1                    | 95-105 gusting to 120                       | Severe Cyclonic Storm            |
| 10.06.2015/1800 | 21.6/60.5                    | 80-90 gusting to 105                        | Cyclonic Storm                   |
| 11.06.2015/0000 | 21.7/60.0                    | 70-80 gusting to 90                         | Cyclonic Storm                   |
| 11.06.2015/1200 | 21.7/59.5                    | 60-70 gusting to 80                         | Cyclonic Storm                   |
| 12.06.2015/0000 | 21.8/58.8                    | 55-65 gusting to 75                         | Deep Depression                  |
| 12.06.2015/1200 | 21.7/58.2                    | 40-50 gusting to 60                         | Depression                       |

**REMARKS:**

THE SEA SURFACE TEMPERATURE IS BETWEEN 29-30°C, OCEAN THERMAL ENERGY IS ABOUT 60-100 KJ/CM<sup>2</sup>, LOW LEVEL CONVERGENCE IS (10-15) X10<sup>-5</sup> SECOND<sup>-1</sup>, UPPER LEVEL DIVERGENCE IS ABOUT (10-20)X10<sup>-5</sup> SECOND<sup>-1</sup>, THE LOW LEVEL RELATIVE VORTICITY IS ABOUT (10-15)X10<sup>-5</sup> SECOND<sup>-1</sup>, VERTICAL WIND SHEAR IS MODERATE (10-20 KNOTS). NEGATIVE SHEAR TENDENCY PREVAILS SOUTH-SOUTHWEST OF THE SYSTEM. UPPER TROPOSPHERIC RIDGE LIES ALONG LATITUDE 22.0°N AND ASSOCIATED ANTICYCLONE NORTHWEST OF THE SYSTEM. THE MADDEN-JULIAN OSCILLATION LIES IN PHASE-2 WITH AMPLITUDE > 1.

ABOVE SYNOPTIC AND ENVIRONMENTAL CONDITIONS, AS WELL AS NUMERICAL WEATHER PREDICTION MODEL GUIDANCE SUGGEST THAT THE SYSTEM WOULD MOVE NEARLY WESTWARDS AND MAY INTENSIFY INTO A SEVERE CYCLONIC STORM DURING NEXT 12 HOURS AND WOULD CONTINUE TO MOVE IN THE SAME DIRECTION THEREAFTER.

**THE NEXT BULLETIN WILL BE ISSUED AT 0900 UTC OF 10 JUNE 2015.**

(B.P.Yadav)  
Head (NWFC)  
Ph: 011-24631913

TOO/ 10/1300 HRS IST





**Earth System Science Organisation  
Ministry of Earth Sciences  
India Meteorological Department**

**TROPICAL CYCLONE ADVISORY BULLETIN**

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

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

TROPICAL STORM 'ASHOBAA' ADVISORY NO. EIGHTEEN ISSUED AT 0900 UTC OF 10 JUNE 2015 BASED ON 0600 UTC OF 10 JUNE 2015 CHARTS.

THE CYCLONIC STORM (ASHOBAA) OVER NORTHWEST ARABIAN SEA AND ADJOINING AREAS MOVED WESTWARDS DURING PAST 6 HOURS AND LAY CENTRED AT 0600 UTC OF 10 JUNE 2015 NEAR LATITUDE 21.3° N AND LONGITUDE 61.5° E, ABOUT 250 KM SOUTHEAST OF SUR (41268) AND 280 KM EAST-NORTHEAST OF MASIRAH (41288) (OMAN). THE SYSTEM MAY INTENSIFY FURTHER INTO A SEVERE CYCLONIC STORM AND MOVE NEARLY WESTWARDS DURING NEXT 12 HOURS. THEREAFTER, THE SYSTEM WOULD CONTINUE TO MOVE IN NEARLY THE SAME DIRECTION AND CROSS OMAN COAST AS A CYCLONIC STORM BETWEEN LATITUDE 21.5° N AND LATITUDE 22.5° N SOUTH OF RAS AL HADD IN THE EVENING OF 11 JUNE 2015.

ACCORDING TO SATELLITE IMAGERIES, THE INTENSITY OF THE SYSTEM IS T 3.0. ASSOCIATED BROKEN LOW AND MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION LIES OVER AREA BETWEEN LATITUDE 18.0° N & 23.2° N AND LONGITUDE 58.0° E & 64.0° E. THE LOWEST CLOUD-TOP TEMPERATURE IS -80 DEG C. MAXIMUM SUSTAINED SURFACE WIND SPEED IS ESTIMATED TO BE ABOUT 45 KNOTS GUSTING TO 55 KNOTS AROUND THE SYSTEM CENTRE. THE STATE OF THE SEA IS VERY ROUGH TO HIGH AROUND THE SYSTEM CENTRE. THE ESTIMATED CENTRAL PRESSURE IS ABOUT 990 HPA.

**FORECAST TRACK AND INTENSITY OF THE SYSTEM ARE GIVEN IN THE TABLE BELOW:**

| <b>DATE/TIME(UTC)</b> | <b>POSITION<br/>(LAT. °N/ LONG.<br/>°E)</b> | <b>MAXIMUM SUSTAINED<br/>SURFACE<br/>WIND SPEED (KMPH)</b> | <b>CATEGORY OF CYCLONIC<br/>DISTURBANCE</b> |
|-----------------------|---|--|---|
| 10.06.2015/0600       | 21.3/61.5                                   | 80-90 GUSTING TO<br>105                                    | CYCLONIC STORM                              |
| 10.06.2015/1200       | 21.4/61.1                                   | 95-105 GUSTING TO<br>120                                   | SEVERE CYCLONIC STORM                       |
| 10.06.2015/1800       | 21.5/60.7                                   | 95-105 GUSTING TO<br>120                                   | SEVERE CYCLONIC STORM                       |
| 11.06.2015/0000       | 21.6/60.2                                   | 80-90 GUSTING TO<br>105                                    | CYCLONIC STORM                              |
| 11.06.2015/0600       | 21.7/59.7                                   | 70-80 GUSTING TO 90  | CYCLONIC STORM                              |
| 11.06.2015/1800       | 21.7/59.0                                   | 55-65 GUSTING TO 75  | DEEP DEPRESSION                             |
| 12.06.2015/0600       | 21.8/58.2                                   | 40-50 GUSTING TO 60  | DEPRESSION                                  |

**REMARKS:**

THE SEA SURFACE TEMPERATURE IS BETWEEN 29-30°C, OCEAN THERMAL ENERGY IS ABOUT 60-100 KJ/CM<sup>2</sup>, LOW LEVEL CONVERGENCE IS (10-15) X10<sup>-5</sup> SECOND<sup>-1</sup>, UPPER LEVEL DIVERGENCE IS ABOUT (10-20)X10<sup>-5</sup> SECOND<sup>-1</sup>, THE LOW LEVEL RELATIVE VORTICITY IS ABOUT (10-15)X10<sup>-5</sup> SECOND<sup>-1</sup>, VERTICAL WIND SHEAR IS MODERATE (10-20 KNOTS). SHEAR TENDENCY IS NEGATIVE TO THE SOUTH-SOUTHWEST OF THE SYSTEM. UPPER TROPOSPHERIC RIDGE LIES ALONG LATITUDE 22.0°N AND ASSOCIATED ANTICYCLONE NORTHWEST OF THE SYSTEM. THE MADDEN-JULIAN OSCILLATION LIES IN PHASE-2 WITH AMPLITUDE > 1.

ABOVE SYNOPTIC AND ENVIRONMENTAL CONDITIONS, AS WELL AS NUMERICAL WEATHER PREDICTION MODEL GUIDANCE SUGGEST THAT THE SYSTEM WOULD MOVE NEARLY WESTWARDS AND MAY INTENSIFY INTO A SEVERE CYCLONIC STORM DURING NEXT 12 HOURS AND WOULD CONTINUE TO MOVE IN THE SAME DIRECTION THEREAFTER.

**THE NEXT BULLETIN WILL BE ISSUED AT 1200 UTC OF 10 JUNE 2015.**

(B.P.Yadav)  
Head (NWFC)  
Ph: 011-24631913

TOO/ 10/1500 HRS IST



Earth System Science Organisation  
Ministry of Earth Sciences  
India Meteorological Department

**TROPICAL CYCLONE ADVISORY BULLETIN**

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

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

TROPICAL STORM 'ASHOBAA' ADVISORY NO. NINETEEN ISSUED AT 1200 UTC OF 10 JUNE 2015 BASED ON 0900 UTC OF 10 JUNE 2015 CHARTS.

THE CYCLONIC STORM (ASHOBAA) OVER NORTHWEST ARABIAN SEA AND ADJOINING AREAS MOVED NEARLY WESTWARDS DURING PAST 6 HOURS AND LAY CENTRED AT 0900 UTC OF 10 JUNE 2015 NEAR LATITUDE 21.2°N AND LONGITUDE 61.1°E, ABOUT 220 KM SOUTHEAST OF SUR (41268), 240 KM NORTHEAST OF MASIRAH (41288) (OMAN) AND 220 KM FROM RAS AL HADD. THE SYSTEM MAY INTENSIFY FURTHER INTO A SEVERE CYCLONIC STORM AND MOVE NEARLY WESTWARDS DURING NEXT 12 HOURS. THEREAFTER, THE SYSTEM WOULD CONTINUE TO MOVE IN NEARLY THE SAME DIRECTION AND CROSS OMAN COAST AS A CYCLONIC STORM NEAR LATITUDE 21.0° N AND LONGITUDE 59.0° E, ABOUT 50 KM NORTH OF MASIRAH AND 160 KM SOUTHWEST OF RAS AL HADD, IN THE EVENING OF 11 JUNE 2015.

ACCORDING TO SATELLITE IMAGERIES, THE INTENSITY OF THE SYSTEM IS T 3.0. ASSOCIATED BROKEN LOW AND MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION LIES OVER AREA BETWEEN LATITUDE 18.0° N & 23.2° N AND LONGITUDE 58.0° E & 64.0° E. THE LOWEST CLOUD-TOP TEMPERATURE IS -82 DEG C. MAXIMUM SUSTAINED SURFACE WIND SPEED IS ESTIMATED TO BE ABOUT 45 KNOTS GUSTING TO 55 KNOTS AROUND THE SYSTEM CENTRE. THE STATE OF THE SEA IS VERY ROUGH TO HIGH AROUND THE SYSTEM CENTRE. THE ESTIMATED CENTRAL PRESSURE IS ABOUT 990 HPA.

**FORECAST TRACK AND INTENSITY OF THE SYSTEM ARE GIVEN IN THE TABLE BELOW:**

| <b>DATE/TIME(UTC)</b> | <b>POSITION<br/>(LAT. °N/ LONG.<br/>°E)</b> | <b>MAXIMUM SUSTAINED<br/>SURFACE<br/>WIND SPEED (KMPH)</b> | <b>CATEGORY OF CYCLONIC<br/>DISTURBANCE</b> |
|-----------------------|---|--|---|
| 10.06.2015/0900       | 21.2/61.1                                   | 80-90 GUSTING TO<br>105                                    | CYCLONIC STORM                              |
| 10.06.2015/1200       | 21.2/60.7                                   | 95-105 GUSTING TO<br>120                                   | SEVERE CYCLONIC STORM                       |
| 10.06.2015/1800       | 21.2/60.3                                   | 95-105 GUSTING TO<br>120                                   | SEVERE CYCLONIC STORM                       |
| 11.06.2015/0000       | 21.2/59.6                                   | 80-90 GUSTING TO<br>105                                    | CYCLONIC STORM                              |
| 11.06.2015/0600       | 21.2/59.0                                   | 70-80 GUSTING TO 90  | CYCLONIC STORM                              |
| 11.06.2015/1800       | 21.1/58.4                                   | 55-65 GUSTING TO 75  | DEEP DEPRESSION                             |

|                 |           |                     |            |
|-----------------|-----------|---------------------|------------|
| 12.06.2015/0600 | 21.1/57.6 | 40-50 GUSTING TO 60 | DEPRESSION |
|-----------------|-----------|---------------------|------------|

**REMARKS:**

THE SEA SURFACE TEMPERATURE IS BETWEEN 29-30°C, OCEAN THERMAL ENERGY IS ABOUT 60-100 KJ/CM<sup>2</sup>, LOW LEVEL CONVERGENCE IS (10-15) X10<sup>-5</sup> SECOND<sup>-1</sup>, UPPER LEVEL DIVERGENCE IS ABOUT (10-20)X10<sup>-5</sup> SECOND<sup>-1</sup>, THE LOW LEVEL RELATIVE VORTICITY IS ABOUT (10-15)X10<sup>-5</sup> SECOND<sup>-1</sup>, VERTICAL WIND SHEAR IS MODERATE (10-20 KNOTS). SHEAR TENDENCY IS NEGATIVE TO THE SOUTH-SOUTHWEST OF THE SYSTEM. UPPER TROPOSPHERIC RIDGE LIES ALONG LATITUDE 22.0°N AND ASSOCIATED ANTICYCLONE NORTHWEST OF THE SYSTEM. THE MADDEN-JULIAN OSCILLATION LIES IN PHASE-2 WITH AMPLITUDE > 1.

ABOVE SYNOPTIC AND ENVIRONMENTAL CONDITIONS, AS WELL AS NUMERICAL WEATHER PREDICTION MODEL GUIDANCE SUGGEST THAT THE SYSTEM WOULD MOVE NEARLY WESTWARDS AND MAY INTENSIFY INTO A SEVERE CYCLONIC STORM DURING NEXT 12 HOURS AND WOULD CONTINUE TO MOVE IN THE SAME DIRECTION THEREAFTER.

**THE NEXT BULLETIN WILL BE ISSUED AT 1500 UTC OF 10 JUNE 2015.**

(CHARAN SINGH )  
SCIENTIST-E  
Ph: 011-24631913

TOO/ 10/1730 HRS IST



Earth System Science Organisation  
Ministry of Earth Sciences  
India Meteorological Department

**TROPICAL CYCLONE ADVISORY BULLETIN**

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

TROPICAL STORM 'ASHOBAA' ADVISORY NO. TWENTY ISSUED AT 1500 UTC OF 10 JUNE 2015 BASED ON 1200 UTC OF 10 JUNE 2015 CHARTS.

THE CYCLONIC STORM (ASHOBAA) OVER NORTHWEST ARABIAN SEA REMAINED PRACTICALLY STATIONARY DURING PAST 3 HOURS AND LAY CENTRED AT 1200 UTC OF 10 JUNE 2015 NEAR LATITUDE 21.1° N AND LONGITUDE 61.1° E, ABOUT 235 KM EAST-NORTHEAST OF MASIRAH (41288)) AND 220 KM SOUTHEAST OF RAS AL HADD. THE SYSTEM WOULD MOVE WEST-SOUTHWESTWARDS AND CROSS OMAN COAST AS A CYCLONIC STORM NEAR LATITUDE 20.7° N AND LONGITUDE 58.6° E, AROUND 2100 UTC OF 11 JUNE 2015.

ACCORDING TO SATELLITE IMAGERIES, THE INTENSITY OF THE SYSTEM IS T 3.0. THE CONVECTION SHOWS CENTRAL DENSE OVERCAST PATTERN. HOWEVER, THERE IS SLIGHT DECREASE IN COMPACTNESS DURING PAST SIX HOURS. ASSOCIATED BROKEN LOW AND MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION LIES OVER AREA BETWEEN LATITUDE 18.0° N & 23.0° N AND LONGITUDE 58.0° E & 64.0° E. THE LOWEST CLOUD-TOP TEMPERATURE IS -80 DEG C. MAXIMUM SUSTAINED SURFACE WIND SPEED IS ESTIMATED TO BE ABOUT 45 KNOTS GUSTING TO 55 KNOTS AROUND THE SYSTEM CENTRE. THE STATE OF THE SEA IS VERY HIGH AROUND THE SYSTEM CENTRE. THE ESTIMATED CENTRAL PRESSURE IS ABOUT 990 HPA. . RAS AL HADD REPORTED MSLP 997.9 HPA AND SURFACE WIND 010/20 KTS. MASIRAH REPORTED MSLP 998.0 HPA AND SURFACE WIND 040/12 KTS. SURFACE WINDS ARE STRONGER IN THE NORTHERN SECTOR OF THE SYSTEM CENTRE.

**FORECAST TRACK AND INTENSITY OF THE SYSTEM ARE GIVEN IN THE TABLE BELOW:**

| <b>DATE/TIME(UTC)</b> | <b>POSITION<br/>(LAT. °N/ LONG.<br/>°E)</b> | <b>MAXIMUM SUSTAINED<br/>SURFACE<br/>WIND SPEED (KMPH)</b> | <b>CATEGORY OF CYCLONIC<br/>DISTURBANCE</b> |
|-----------------------|---|--|---|
| 10.06.2015/1200       | 21.1/61.1                                   | 80-90 GUSTING TO<br>100                                    | CYCLONIC STORM                              |
| 10.06.2015/1800       | 21.0/60.8                                   | 85-95 GUSTING TO<br>105                                    | CYCLONIC STORM                              |
| 11.06.2015/0000       | 20.9/60.4                                   | 85-95 GUSTING TO<br>105                                    | CYCLONIC STORM                              |
| 11.06.2015/0600       | 20.8/60.0                                   | 75-85 GUSTING TO 95  | CYCLONIC STORM                              |
| 11.06.2015/1200       | 20.7/59.6                                   | 65-75 GUSTING TO 85  | CYCLONIC STORM                              |
| 12.06.2015/0000       | 20.6/57.5                                   | 55-65 GUSTING TO 75  | DEEP DEPRESSION                             |
| 12.06.2015/1200       | 20.5/57.0                                   | 40-50 GUSTING TO 60  | DEPRESSION                                  |

**STORM SURGE GUIDANCE:**

STORM SURGE OF ABOUT ONE METER HEIGHT ABOVE THE ASTRONOMICAL TIDE WOULD INUNDATE LOW LYING AREAS NEAR THE LANDFALL POINT AROUND THE TIME OF LANDFALL.

**REMARKS:**

UPPER TROPOSPHERIC RIDGE LIES ALONG LATITUDE 22.0°N AND ASSOCIATED ANTICYCLONE LIES TO NORTHWEST OF THE SYSTEM. AS A RESULT, THE UPPER TROPOSPHERIC WIND IS EASTNORTHEASTERLY WHICH MAY HELP THE SYSTEM TO MOVE WEST-SOUTHWESTWARDS . MADDEN-JULIAN OSCILLATION LIES IN PHASE-2 WITH AMPLITUDE > 1. THE SEA SURFACE TEMPERATURE IS BETWEEN 29-30°C, OCEAN THERMAL ENERGY IS ABOUT 50 KJ/CM<sup>2</sup>, LOW LEVEL CONVERGENCE IS (5-10) X10<sup>-5</sup> SECOND<sup>-1</sup>, UPPER LEVEL DIVERGENCE IS ABOUT (10-15)X10<sup>-5</sup> SECOND<sup>-1</sup>, THE LOW LEVEL RELATIVE VORTICITY IS ABOUT (10-15)X10<sup>-5</sup> SECOND<sup>-1</sup>, THUS LOW LEVEL CONVERGENCE & UPPER LEVEL DIVERGENCE HAS DECREASED SLIGHTLY DURING PAST SIX HOURS. VERTICAL WIND SHEAR IS MODERATE AROUND SYSTEM CENTRE. IT IS HIGH TO THE SOUTH AND LOW TO THE NORTH. AS THE SYSTEM IS EXPECTED TO MOVE WESTSOUTHWESTWARDS, IT WOULD EXPERIENCE MODERATE TO HIGH WIND SHEAR. FURTHER, AS THE SYSTEM WOULD MOVE CLOSE TO LAND SURFACE, LAND INTERACTION ALONGWITH THE DRY AIR INTRUSION WOULD ADVERSELY AFFECT THE INTENSITY OF THE SYSTEM. HENCE, THE SYSTEM MAY MAINTAIN CURRENT INTENSITY FOR NEXT 12 HRS AND START SLIGHT WEAKENING THEREAFTER.

**THE NEXT BULLETIN WILL BE ISSUED AT 1800 UTC OF 10 JUNE 2015.**

(M. MOHAPATRA )  
HEAD, RSMC, NEW DELHI  
Ph: 011-24631913

TOO/ 10/2030 HRS IST



Earth System Science Organisation  
Ministry of Earth Sciences  
India Meteorological Department

**TROPICAL CYCLONE ADVISORY BULLETIN**

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

TROPICAL STORM 'ASHOBAA' ADVISORY NO. TWENTY ONE ISSUED AT 1800 UTC OF 10 JUNE 2015 BASED ON 1500 UTC OF 10 JUNE 2015 CHARTS.

THE CYCLONIC STORM (ASHOBAA) OVER NORTHWEST ARABIAN SEA HAS MOVED WEST- SOUTHWESTWARDS DURING PAST 6 HOURS AND LAY CENTRED AT 1500 UTC OF 10 JUNE 2015 NEAR LATITUDE 20.9° N AND LONGITUDE 60.8° E, ABOUT 200 KM EAST-NORTHEAST OF MASIRAH (41288) AND 190 KM SOUTHEAST OF RAS AL HADD. THE SYSTEM WOULD MOVE WEST-SOUTHWESTWARDS AND CROSS OMAN COAST AS A CYCLONIC STORM BETWEEN LATITUDE 20.0° N AND 20.5°N AROUND 2100 UTC OF 11 JUNE 2015.

ACCORDING TO SATELLITE IMAGERIES, THE INTENSITY OF THE SYSTEM IS T 3.0. THE CONVECTION SHOWS CENTRAL DENSE OVERCAST PATTERN. HOWEVER, THERE IS SLIGHT DECREASE IN COMPACTNESS DURING PAST SIX HOURS. ASSOCIATED BROKEN LOW AND MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION LIES OVER AREA BETWEEN LATITUDE 18.0° N & 23.0° N AND WEST OF LONGITUDE 62.0° E. THE LOWEST CLOUD-TOP TEMPERATURE IS -68 DEG C. MAXIMUM SUSTAINED SURFACE WIND SPEED IS ESTIMATED TO BE ABOUT 45 KNOTS GUSTING TO 55 KNOTS AROUND THE SYSTEM CENTRE. THE STATE OF THE SEA IS VERY HIGH AROUND THE SYSTEM CENTRE. THE ESTIMATED CENTRAL PRESSURE IS ABOUT 990 HPA. . RAS AL HADD REPORTED MSLP 998.7 HPA. MASIRAH REPORTED MSLP 998.2 HPA AND SURFACE WIND 020/15 KTS. SURFACE WINDS ARE STRONGER IN THE NORTHERN SECTOR OF THE SYSTEM CENTRE.

**FORECAST TRACK AND INTENSITY OF THE SYSTEM ARE GIVEN IN THE TABLE BELOW:**

| <b>DATE/TIME(UTC)</b> | <b>POSITION<br/>(LAT. °N/ LONG.<br/>°E)</b> | <b>MAXIMUM SUSTAINED<br/>SURFACE<br/>WIND SPEED (KMPH)</b> | <b>CATEGORY OF CYCLONIC<br/>DISTURBANCE</b> |
|-----------------------|---|--|---|
| 10.06.2015/1500       | 20.9/60.8                                   | 80-90 GUSTING TO<br>100                                    | CYCLONIC STORM                              |
| 10.06.2015/1800       | 20.8/60.6                                   | 85-95 GUSTING TO<br>105                                    | CYCLONIC STORM                              |
| 11.06.2015/0000       | 20.7/60.2                                   | 85-95 GUSTING TO<br>105                                    | CYCLONIC STORM                              |
| 11.06.2015/0600       | 20.6/59.7                                   | 75-85 GUSTING TO 95  | CYCLONIC STORM                              |
| 11.06.2015/1200       | 20.5/59.2                                   | 65-75 GUSTING TO 85  | CYCLONIC STORM                              |
| 12.06.2015/0000       | 20.3/57.8                                   | 55-65 GUSTING TO 75  | DEEP DEPRESSION                             |
| 12.06.2015/1200       | 20.1/57.0                                   | 40-50 GUSTING TO 60  | DEPRESSION                                  |

**STORM SURGE GUIDANCE:**

STORM SURGE OF ABOUT ONE METER HEIGHT ABOVE THE ASTRONOMICAL TIDE WOULD INUNDATE LOW LYING AREAS NEAR THE LANDFALL POINT AROUND THE TIME OF LANDFALL.

**REMARKS:**

UPPER TROPOSPHERIC RIDGE LIES ALONG LATITUDE 22.0°N AND ASSOCIATED ANTICYCLONE LIES TO NORTHWEST OF THE SYSTEM. AS A RESULT, THE UPPER TROPOSPHERIC WIND IS EASTNORTHEASTERLY WHICH MAY HELP THE SYSTEM TO MOVE WEST-SOUTHWESTWARDS . MADDEN-JULIAN OSCILLATION LIES IN PHASE-2 WITH AMPLITUDE > 1. THE SEA SURFACE TEMPERATURE IS BETWEEN 29-30°C, OCEAN THERMAL ENERGY IS ABOUT 50 KJ/CM<sup>2</sup>, LOW LEVEL CONVERGENCE IS (5-10) X10<sup>-5</sup> SECOND<sup>-1</sup>, UPPER LEVEL DIVERGENCE IS ABOUT (10-15)X10<sup>-5</sup> SECOND<sup>-1</sup>, THE LOW LEVEL RELATIVE VORTICITY IS ABOUT (10-15)X10<sup>-5</sup> SECOND<sup>-1</sup>, THUS LOW LEVEL CONVERGENCE & UPPER LEVEL DIVERGENCE HAS DECREASED SLIGHTLY DURING PAST SIX HOURS. VERTICAL WIND SHEAR IS MODERATE AROUND SYSTEM CENTRE. IT IS HIGH TO THE SOUTH AND LOW TO THE NORTH. AS THE SYSTEM IS EXPECTED TO MOVE WESTSOUTHWESTWARDS, IT WOULD EXPERIENCE MODERATE TO HIGH WIND SHEAR. FURTHER, AS THE SYSTEM WOULD MOVE CLOSE TO LAND SURFACE, LAND INTERACTION ALONGWITH THE DRY AIR INTRUSION WOULD ADVERSELY AFFECT THE INTENSITY OF THE SYSTEM. HENCE, THE SYSTEM MAY MAINTAIN CURRENT INTENSITY FOR NEXT 12 HRS AND START SLIGHT WEAKENING THEREAFTER.

**THE NEXT BULLETIN WILL BE ISSUED AT 2100 UTC OF 10 JUNE 2015.**

(D.R.PATTANAİK )  
SCIENTIST-E, NEW DELHI  
Ph: 011-24631913

TOO/ 10/2330 HRS IST





Earth System Science Organisation  
Ministry of Earth Sciences  
India Meteorological Department

**TROPICAL CYCLONE ADVISORY BULLETIN**

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

TROPICAL STORM 'ASHOBAA' ADVISORY NO. TWENTY TWO ISSUED AT 2100 UTC OF 10 JUNE 2015 BASED ON 1800 UTC OF 10 JUNE 2015 CHARTS.

THE CYCLONIC STORM (ASHOBAA) OVER NORTHWEST ARABIAN SEA REMAINED PRACTICALLY STATIONARY DURING PAST 3 HOURS AND LAY CENTRED AT 1800 UTC OF 10 JUNE 2015 NEAR LATITUDE 20.9° N AND LONGITUDE 60.8° E, ABOUT 200 KM EAST-NORTHEAST OF MASIRAH (41288) AND 190 KM SOUTHEAST OF RAS AL HADD. THE SYSTEM WOULD MOVE WEST-SOUTHWESTWARDS AND CROSS OMAN COAST BETWEEN LATITUDE 20.0° N AND 20.5°N AROUND 2100 UTC OF 11 JUNE 2015.

ACCORDING TO SATELLITE IMAGERIES, THE INTENSITY OF THE SYSTEM IS CI 3.0. THE CONVECTION SHOWS SIGN OF DISORGANISATION. HOWEVER, THERE IS DECREASE IN COMPACTNESS DURING PAST SIX HOURS. ASSOCIATED BROKEN LOW AND MEDIUM CLOUDS WITH EMBEDDED INTENSE CONVECTION LIES OVER AREA BETWEEN LATITUDE 18.5° N & 23.0° N AND WEST OF LONGITUDE 62.5° E. THE LOWEST CLOUD-TOP TEMPERATURE IS -73 DEG C. MAXIMUM SUSTAINED SURFACE WIND SPEED IS ESTIMATED TO BE ABOUT 45 KNOTS GUSTING TO 55 KNOTS AROUND THE SYSTEM CENTRE. THE STATE OF THE SEA IS VERY HIGH AROUND THE SYSTEM CENTRE. THE ESTIMATED CENTRAL PRESSURE IS ABOUT 992 HPA. . RAS AL HADD REPORTED MSLP 999.4 HPA AND SURFACE WIND 360/15 KTS. MASIRAH REPORTED MSLP 1000.2 HPA AND SURFACE WIND 320/05 KTS. SURFACE WINDS ARE STRONGER IN THE NORTHERN SECTOR OF THE SYSTEM CENTRE.

**FORECAST TRACK AND INTENSITY OF THE SYSTEM ARE GIVEN IN THE TABLE BELOW:**

| <b>DATE/TIME(UTC)</b> | <b>POSITION<br/>(LAT. °N/ LONG.<br/>°E)</b> | <b>MAXIMUM SUSTAINED<br/>SURFACE<br/>WIND SPEED (KMPH)</b> | <b>CATEGORY OF CYCLONIC<br/>DISTURBANCE</b> |
|-----------------------|---|--|---|
| 10.06.2015/1800       | 20.9/60.8                                   | 80-90 GUSTING TO<br>100                                    | CYCLONIC STORM                              |
| 11.06.2015/0000       | 20.8/60.6                                   | 70-80 GUSTING TO 90  | CYCLONIC STORM                              |
| 11.06.2015/0600       | 20.7/60.2                                   | 60-70 GUSTING TO 80  | CYCLONIC STORM                              |
| 11.06.2015/1200       | 20.6/59.7                                   | 55-65 GUSTING TO 70  | DEEP DEPRESSION                             |
| 11.06.2015/1800       | 20.5/59.1                                   | 50-60 GUSTING TO 70  | DEEP DEPRESSION                             |
| 12.06.2015/0600       | 20.3/57.5                                   | 35-45 GUSTING TO 55  | DEPRESSION                                  |

**STORM SURGE GUIDANCE:**

STORM SURGE OF ABOUT 0.5 TO ONE METER HEIGHT ABOVE THE ASTRONOMICAL TIDE WOULD INUNDATE LOW LYING AREAS NEAR THE LANDFALL POINT AROUND THE TIME OF LANDFALL.

**REMARKS:**

UPPER TROPOSPHERIC RIDGE LIES ALONG LATITUDE 22.0°N AND ASSOCIATED ANTICYCLONE LIES TO NORTHWEST OF THE SYSTEM. AS A RESULT, THE UPPER TROPOSPHERIC WIND IS EASTNORTHEASTERLY WHICH MAY HELP THE SYSTEM TO MOVE WEST-SOUTHWESTWARDS . MADDEN-JULIAN OSCILLATION LIES IN PHASE-2 WITH AMPLITUDE > 1. THE SEA SURFACE TEMPERATURE IS BETWEEN 29-30°C, OCEAN THERMAL ENERGY IS ABOUT 50 KJ/CM<sup>2</sup>, LOW LEVEL CONVERGENCE IS (5-10) X10<sup>-5</sup> SECOND<sup>-1</sup>, UPPER LEVEL DIVERGENCE IS ABOUT (05-10)X10<sup>-5</sup> SECOND<sup>-1</sup>, THE LOW LEVEL RELATIVE VORTICITY IS ABOUT (10-15)X10<sup>-5</sup> SECOND<sup>-1</sup>, THUS LOW LEVEL CONVERGENCE & UPPER LEVEL DIVERGENCE HAS DECREASED SLIGHTLY DURING PAST SIX HOURS. VERTICAL WIND SHEAR IS MODERATE AROUND SYSTEM CENTRE. IT IS HIGH TO THE SOUTH AND LOW TO THE NORTH. AS THE SYSTEM IS EXPECTED TO MOVE WESTSOUTHWESTWARDS, IT WOULD EXPERIENCE MODERATE TO HIGH WIND SHEAR. FURTHER, AS THE SYSTEM WOULD MOVE CLOSE TO LAND SURFACE, LAND INTERACTION ALONGWITH THE DRY AIR INTRUSION WOULD ADVERSELY AFFECT THE INTENSITY OF THE SYSTEM. HENCE, THE SYSTEM MAY WEAKEN GRADUALLY DURING NEXT 48 HRS.

**THE NEXT BULLETIN WILL BE ISSUED AT 0000 UTC OF 11 JUNE 2015.**

(D.R.PATTANAİK )  
SCIENTIST-E, NEW DELHI  
Ph: 011-24631913

TOO/ 11/0230 HRS IST



Earth System Science Organisation  
Ministry of Earth Sciences  
India Meteorological Department

**TROPICAL CYCLONE ADVISORY BULLETIN**

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

TROPICAL STORM 'ASHOBAA' ADVISORY NO. TWENTY THREE ISSUED AT 0000 UTC OF 11 JUNE 2015 BASED ON 2100 UTC OF 10 JUNE 2015 CHARTS.

THE CYCLONIC STORM (ASHOBAA) OVER NORTHWEST ARABIAN SEA REMAINED PRACTICALLY STATIONARY DURING PAST 6 HOURS AND LAY CENTRED AT 2100 UTC OF 10 JUNE 2015 NEAR LATITUDE 20.9° N AND LONGITUDE 60.8° E, ABOUT 200 KM EAST-NORTHEAST OF MASIRAH (41288) AND 190 KM SOUTHEAST OF RAS AL HADD. THE SYSTEM WOULD MOVE WEST-SOUTHWESTWARDS AND CROSS OMAN COAST BETWEEN LATITUDE 20.0° N AND 20.5° N AROUND 2100 UTC OF 11 JUNE 2015.

ACCORDING TO SATELLITE IMAGERIES, THE INTENSITY OF THE SYSTEM IS CI 3.0. THE CONVECTION SHOWS SIGN OF DISORGANISATION. HOWEVER, THERE IS DECREASE IN COMPACTNESS DURING PAST SIX HOURS. ASSOCIATED BROKEN LOW AND MEDIUM CLOUDS WITH EMBEDDED INTENSE CONVECTION LIES OVER AREA BETWEEN LATITUDE 18.5° N & 23.0° N AND WEST OF LONGITUDE 62.5° E. THE LOWEST CLOUD-TOP TEMPERATURE IS -78 DEG C. MAXIMUM SUSTAINED SURFACE WIND SPEED IS ESTIMATED TO BE ABOUT 45 KNOTS GUSTING TO 55 KNOTS AROUND THE SYSTEM CENTRE. THE STATE OF THE SEA IS VERY HIGH AROUND THE SYSTEM CENTRE. THE ESTIMATED CENTRAL PRESSURE IS ABOUT 992 HPA. RAS AL HADD REPORTED MSLP 998.6 HPA AND SURFACE WIND 290/10 KTS. MASIRAH REPORTED MSLP 999.0 HPA AND SURFACE WIND 320/05 KTS. SURFACE WINDS ARE STRONGER IN THE NORTHERN SECTOR OF THE SYSTEM CENTRE.

**FORECAST TRACK AND INTENSITY OF THE SYSTEM ARE GIVEN IN THE TABLE BELOW:**

| <b>DATE/TIME(UTC)</b> | <b>POSITION<br/>(LAT. °N/ LONG.<br/>°E)</b> | <b>MAXIMUM SUSTAINED<br/>SURFACE<br/>WIND SPEED (KMPH)</b> | <b>CATEGORY OF CYCLONIC<br/>DISTURBANCE</b> |
|-----------------------|---|--|---|
| 10.06.2015/2100       | 20.9/60.8                                   | 80-90 GUSTING TO<br>100                                    | CYCLONIC STORM                              |
| 11.06.2015/0000       | 20.8/60.6                                   | 70-80 GUSTING TO 90  | CYCLONIC STORM                              |
| 11.06.2015/0600       | 20.7/60.2                                   | 60-70 GUSTING TO 80  | CYCLONIC STORM                              |
| 11.06.2015/1200       | 20.6/59.7                                   | 55-65 GUSTING TO 70  | DEEP DEPRESSION                             |
| 11.06.2015/1800       | 20.5/59.1                                   | 50-60 GUSTING TO 70  | DEEP DEPRESSION                             |
| 12.06.2015/0600       | 20.3/57.5                                   | 35-45 GUSTING TO 55  | DEPRESSION                                  |

**STORM SURGE GUIDANCE:**

STORM SURGE OF ABOUT 0.5 TO ONE METER HEIGHT ABOVE THE ASTRONOMICAL TIDE WOULD INUNDATE LOW LYING AREAS NEAR THE LANDFALL POINT AROUND THE TIME OF LANDFALL.

**REMARKS:**

UPPER TROPOSPHERIC RIDGE LIES ALONG LATITUDE 22.0°N AND ASSOCIATED ANTICYCLONE LIES TO NORTHWEST OF THE SYSTEM. AS A RESULT, THE UPPER TROPOSPHERIC WIND IS EASTNORTHEASTERLY WHICH MAY HELP THE SYSTEM TO MOVE WEST-SOUTHWESTWARDS . MADDEN-JULIAN OSCILLATION LIES IN PHASE-2 WITH AMPLITUDE > 1. THE SEA SURFACE TEMPERATURE IS BETWEEN 29-30°C, OCEAN THERMAL ENERGY IS ABOUT 50 KJ/CM<sup>2</sup>, LOW LEVEL CONVERGENCE IS (5-10) X10<sup>-5</sup> SECOND<sup>-1</sup>, UPPER LEVEL DIVERGENCE IS ABOUT (05-10)X10<sup>-5</sup> SECOND<sup>-1</sup>, THE LOW LEVEL RELATIVE VORTICITY IS ABOUT (10-15)X10<sup>-5</sup> SECOND<sup>-1</sup>, THUS LOW LEVEL CONVERGENCE & UPPER LEVEL DIVERGENCE HAS DECREASED SLIGHTLY DURING PAST SIX HOURS. VERTICAL WIND SHEAR IS MODERATE AROUND SYSTEM CENTRE. IT IS HIGH TO THE SOUTH AND LOW TO THE NORTH. AS THE SYSTEM IS EXPECTED TO MOVE WESTSOUTHWESTWARDS, IT WOULD EXPERIENCE MODERATE TO HIGH WIND SHEAR. FURTHER, AS THE SYSTEM WOULD MOVE CLOSE TO LAND SURFACE, LAND INTERACTION ALONGWITH THE DRY AIR INTRUSION WOULD ADVERSELY AFFECT THE INTENSITY OF THE SYSTEM. HENCE, THE SYSTEM MAY WEAKEN GRADUALLY DURING NEXT 48 HRS.

**THE NEXT BULLETIN WILL BE ISSUED AT 0300 UTC OF 11 JUNE 2015.**

(D.R.PATTANAİK )  
SCIENTIST-E, NEW DELHI  
Ph: 011-24631913

TOO/ 11/0515 HRS IST



Earth System Science Organisation  
Ministry of Earth Sciences  
India Meteorological Department

**TROPICAL CYCLONE ADVISORY BULLETIN**

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

TROPICAL STORM 'ASHOBAA' ADVISORY NO. TWENTY FOUR ISSUED AT 0300 UTC OF 11 JUNE 2015 BASED ON 0000 UTC OF 11 JUNE 2015.

THE CYCLONIC STORM (ASHOBAA) OVER NORTHWEST ARABIAN SEA REMAINED PRACTICALLY STATIONARY DURING PAST 6 HOURS AND WEAKEND SLIGHTLY. IT LAY CENTRED AT 0000 UTC OF 11 JUNE 2015 NEAR LATITUDE 20.8° N AND LONGITUDE 60.8° E, ABOUT 200 KM EAST-NORTHEAST OF MASIRAH (41288)) AND 190 KM SOUTHEAST OF RAS AL HADD. THE SYSTEM WOULD MOVE WEST-SOUTHWESTWARDS AND CROSS OMAN COAST AS A DEPRESSION NEAR LATITUDE 20.5° N AROUND 0900 UTC OF 12 JUNE 2015.

ACCORDING TO SATELLITE IMAGERIES, THE INTENSITY OF THE SYSTEM IS T 2.5. THE CONVECTION SHOWS DISORGANISATION. MAJOR CONVECTIVE CLOUDS LIE IN THE SOUTHERN SECTOR. ASSOCIATED BROKEN LOW AND MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION LIES OVER AREA BETWEEN LATITUDE 18.5° N & 22.0° N AND WEST OF LONGITUDE 62.5° E. THE LOWEST CLOUD-TOP TEMPERATURE IS -78 DEG C. MAXIMUM SUSTAINED SURFACE WIND SPEED IS ESTIMATED TO BE ABOUT 40 KNOTS GUSTING TO 50 KNOTS AROUND THE SYSTEM CENTRE. THE STATE OF THE SEA IS HIGH TO VERY HIGH AROUND THE SYSTEM CENTRE. THE ESTIMATED CENTRAL PRESSURE IS ABOUT 994 HPA. RAS AL HADD REPORTED MSLP 998.3 HPA AND SURFACE WIND 360/15 KTS. MASIRAH REPORTED MSLP 998.5 HPA AND SURFACE WIND 270/10 KTS. SURFACE WINDS ARE STRONGER IN THE NORTHERN SECTOR OF THE SYSTEM CENTRE.

**FORECAST TRACK AND INTENSITY OF THE SYSTEM ARE GIVEN IN THE TABLE BELOW:**

| <b>DATE/TIME(UTC)</b> | <b>POSITION<br/>(LAT. °N/ LONG.<br/>°E)</b> | <b>MAXIMUM SUSTAINED<br/>SURFACE<br/>WIND SPEED (KMPH)</b> | <b>CATEGORY OF CYCLONIC<br/>DISTURBANCE</b> |
|-----------------------|---|--|---|
| 11.06.2015/0000       | 20.8/60.8                                   | 70-80 GUSTING TO 90  | CYCLONIC STORM                              |
| 11.06.2015/0600       | 20.7/60.5                                   | 60-70 GUSTING TO 80  | CYCLONIC STORM                              |
| 11.06.2015/1200       | 20.7/60.2                                   | 55-65 GUSTING TO 75  | DEEP DEPRESSION                             |
| 11.06.2015/1800       | 20.6/59.7                                   | 45-55 GUSTING TO 65  | DEPRESSION                                  |
| 12.06.2015/0000       | 20.6/59.2                                   | 40-50 GUSTING TO 60  | DEPRESSION                                  |
| 12.06.2015/1200       | 20.5/58.2                                   | 25-35 GUSTING TO 45  | LOW PRESSURE AREA                           |

**REMARKS:**

UPPER TROPOSPHERIC RIDGE LIES ALONG LATITUDE 22.0°N AND ASSOCIATED ANTICYCLONE LIES TO NORTHWEST OF THE SYSTEM. AS A RESULT, THE UPPER TROPOSPHERIC WIND IS EAST-NORTHEASTERLY WHICH MAY HELP THE SYSTEM TO MOVE WEST-SOUTHWESTWARDS . MADDEN-JULIAN OSCILLATION LIES IN PHASE-2 WITH AMPLITUDE > 1. IT WOULD MOVE TO PHASE 3 WITH AMPLITUDE > 1 DURING NEXT 24 HOURS.THE SEA SURFACE TEMPERATURE IS BETWEEN 29-30°C, OCEAN THERMAL ENERGY IS LESS THAN 50 KJ/CM<sup>2</sup>. LOW LEVEL CONVERGENCE, UPPER LEVEL DIVERGENCE AND THE LOW LEVEL RELATIVE VORTICITY HAS REMAINED SAME DURING PAST SIX HOURS. VERTICAL WIND SHEAR IS MODERATE AROUND SYSTEM CENTRE. IT IS HIGH TO THE SOUTH AND LOW TO THE NORTH. AS THE SYSTEM IS MOVING WESTSOUTHWESTWARDS, IT IS EXPERIENCING MODERATE TO HIGH WIND SHEAR. FURTHER, THE SYSTEM IS INTERACTING WITH LAND SURFACE. AS A RESULT, THE SYSTEM WEAKENED SLIGHTLY DURING PAST 6 HOURS AND IT WOULD CONTINUE TO WEAKEN GRADUALLY DURING NEXT 36 HOURS.

**THE NEXT BULLETIN WILL BE ISSUED AT 0600 UTC OF 11 JUNE 2015.**

(D.R.PATTANAİK )  
SCIENTIST-E,  
Ph: 011-24631913

TOO/ 11/0515 HRS IST



Earth System Science Organisation  
Ministry of Earth Sciences  
India Meteorological Department

**TROPICAL CYCLONE ADVISORY BULLETIN**

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

TROPICAL STORM 'ASHOBAA' ADVISORY NO. TWENTY FIVE ISSUED AT 0600 UTC OF 11 JUNE 2015 BASED ON 0300 UTC OF 11 JUNE 2015.

THE CYCLONIC STORM (ASHOBAA) OVER NORTHWEST ARABIAN SEA REMAINED PRACTICALLY STATIONARY DURING PAST 6 HOURS AND LAY CENTRED AT 0300 UTC OF 11 JUNE 2015 NEAR LATITUDE 20.8°N AND LONGITUDE 60.8°E, ABOUT 200 KM EAST-NORTHEAST OF MASIRAH (41288) AND 190 KM SOUTHEAST OF RAS AL HADD (41270). THE SYSTEM WOULD MOVE WEST-SOUTHWESTWARDS AND CROSS OMAN COAST AS A DEPRESSION NEAR LATITUDE 20.5°N AROUND 0900 UTC OF 12 JUNE 2015.

ACCORDING TO SATELLITE IMAGERIES, THE INTENSITY OF THE SYSTEM IS T 2.5. THE CONVECTION CONTINUES TO SHOW DISORGANISATION. MAJOR CONVECTIVE CLOUDS LIE IN THE SOUTHERN SECTOR. ASSOCIATED BROKEN LOW AND MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION LIES OVER AREA BETWEEN LATITUDE 18.5°N & 22.0° N AND WEST OF LONGITUDE 62.5°E. THE LOWEST CLOUD-TOP TEMPERATURE IS -78°C. MAXIMUM SUSTAINED SURFACE WIND SPEED IS ESTIMATED TO BE ABOUT 35 KNOTS GUSTING TO 45 KNOTS AROUND THE SYSTEM CENTRE. THE STATE OF THE SEA IS HIGH TO VERY HIGH AROUND THE SYSTEM CENTRE. THE ESTIMATED CENTRAL PRESSURE IS ABOUT 994 HPA. RAS AL HADD REPORTED MSLP 999.2 HPA AND SURFACE WIND 010/19 KTS. MASIRAH REPORTED MSLP 999.1 HPA AND SURFACE WIND 300/11 KTS. SURFACE WINDS ARE STRONGER IN THE NORTHERN SECTOR OF THE SYSTEM CENTRE. A SHIP NEAR 23.8° N/ 62.9° E REPORTED MSLP 1002.9 HPA AND SURFACE WIND 170/15 KTS.

**FORECAST TRACK AND INTENSITY OF THE SYSTEM ARE GIVEN IN THE TABLE BELOW:**

| <b>DATE/TIME(UTC)</b> | <b>POSITION<br/>(LAT. °N/ LONG.<br/>°E)</b> | <b>MAXIMUM SUSTAINED<br/>SURFACE<br/>WIND SPEED (KMPH)</b> | <b>CATEGORY OF CYCLONIC<br/>DISTURBANCE</b> |
|-----------------------|---|--|---|
| 11.06.2015/0300       | 20.8/60.8                                   | 70-80 GUSTING TO 90  | CYCLONIC STORM                              |
| 11.06.2015/0600       | 20.7/60.5                                   | 60-70 GUSTING TO 80  | CYCLONIC STORM                              |
| 11.06.2015/1200       | 20.7/60.2                                   | 55-65 GUSTING TO 75  | DEEP DEPRESSION                             |
| 11.06.2015/1800       | 20.6/59.7                                   | 45-55 GUSTING TO 65  | DEPRESSION                                  |
| 12.06.2015/0000       | 20.6/59.2                                   | 40-50 GUSTING TO 60  | DEPRESSION                                  |
| 12.06.2015/1200       | 20.5/58.2                                   | 25-35 GUSTING TO 45  | LOW PRESSURE AREA                           |

**REMARKS:**

UPPER TROPOSPHERIC RIDGE LIES ALONG LATITUDE 24.0°N AND ASSOCIATED ANTICYCLONE LIES TO NORTHWEST OF THE SYSTEM. AS A RESULT, THE UPPER TROPOSPHERIC WIND IS EAST-NORTHEASTERLY WHICH MAY HELP THE SYSTEM TO MOVE WEST-SOUTHWESTWARDS. MADDEN-JULIAN OSCILLATION LIES IN PHASE-2 WITH AMPLITUDE > 1. IT WOULD MOVE TO PHASE 3 WITH AMPLITUDE > 1 DURING NEXT 24 HOURS. THE SEA SURFACE TEMPERATURE IS BETWEEN 29-30°C, OCEAN THERMAL ENERGY IS LESS THAN 50 KJ/CM<sup>2</sup>. LOW LEVEL CONVERGENCE, UPPER LEVEL DIVERGENCE AND THE LOW LEVEL RELATIVE VORTICITY HAS REMAINED SAME DURING PAST SIX HOURS. VERTICAL WIND SHEAR IS MODERATE AROUND SYSTEM CENTRE. IT IS HIGH TO THE SOUTH AND LOW TO THE NORTH. AS THE SYSTEM IS MOVING WEST-SOUTHWESTWARDS, IT IS EXPERIENCING MODERATE TO HIGH WIND SHEAR. FURTHER, THE SYSTEM IS INTERACTING WITH LAND SURFACE. LATEST TOTAL PRECIPITABLE WATER IMAGERY INDICATES COMMENCEMENT OF DRY AIR INTRUSION TO THE SYSTEM FROM WESTERN SIDE. AS A RESULT, THE SYSTEM WEAKENED SLIGHTLY DURING PAST 6 HOURS AND IT WOULD CONTINUE TO WEAKEN GRADUALLY DURING NEXT 36 HOURS.

**THE NEXT BULLETIN WILL BE ISSUED AT 0900 UTC OF 11 JUNE 2015.**

(M. MOHAPATRA )  
HEAD RSMC  
Ph: 011-24652484, 24631913

TOO/ 11/1100 HRS IST





Earth System Science Organisation  
Ministry of Earth Sciences  
India Meteorological Department

**TROPICAL CYCLONE ADVISORY BULLETIN**

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

TROPICAL STORM 'ASHOBAA' ADVISORY NO. TWENTY SIX ISSUED AT 0900 UTC OF 11 JUNE 2015 BASED ON 0600 UTC OF 11 JUNE 2015.

THE CYCLONIC STORM (ASHOBAA) OVER NORTHWEST ARABIAN SEA MOVED WESTWARDS DURING PAST 6 HOURS AND LAY CENTRED AT 0600 UTC OF 11 JUNE 2015 NEAR LATITUDE 20.8°N AND LONGITUDE 60.5°E, ABOUT 170 KM EAST-NORTHEAST OF MASIRAH (41288) AND 160 KM SOUTH-SOUTHEAST OF RAS AL HADD (41270). THE SYSTEM WOULD MOVE WEST-SOUTHWESTWARDS AND CROSS OMAN COAST AS A DEPRESSION NEAR LATITUDE 20.5°N AROUND 0900 UTC OF 12 JUNE 2015.

ACCORDING TO SATELLITE IMAGERIES, THE INTENSITY OF THE SYSTEM IS T 2.5. THE CONVECTION IS PERSISTING DURING PAST 3 HOURS WITH RESPECT TO ORGANISATION AND ITS DEPTH. MAJOR CONVECTIVE CLOUDS LIE IN THE SOUTHERN SECTOR AND IS ELONGATED FROM NORTHEAST TO SOUTHWEST DIRECTION. ASSOCIATED BROKEN LOW AND MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION LIES OVER AREA BETWEEN LATITUDE 16.0°N & 23.0° N AND WEST OF LONGITUDE 63.5°E. THE LOWEST CLOUD-TOP TEMPERATURE IS -75°C. MAXIMUM SUSTAINED SURFACE WIND SPEED IS ESTIMATED TO BE ABOUT 35 KNOTS GUSTING TO 45 KNOTS AROUND THE SYSTEM CENTRE. THE STATE OF THE SEA IS HIGH TO VERY HIGH AROUND THE SYSTEM CENTRE. THE ESTIMATED CENTRAL PRESSURE IS ABOUT 994 HPA. RAS AL HADD REPORTED SURFACE WIND 040/18 KTS. MASIRAH REPORTED MSLP 1000.0 HPA AND SURFACE WIND 320/10 KTS. SURFACE WINDS ARE STRONGER IN THE NORTHERN SECTOR OF THE SYSTEM CENTRE. A SHIP NEAR 18.7° N/ 61.0° E REPORTED MSLP 998 HPA AND SURFACE WIND 250/37 KTS.

**FORECAST TRACK AND INTENSITY OF THE SYSTEM ARE GIVEN IN THE TABLE BELOW:**

| <b>DATE/TIME(UTC)</b> | <b>POSITION<br/>(LAT. °N/ LONG.<br/>°E)</b> | <b>MAXIMUM SUSTAINED<br/>SURFACE<br/>WIND SPEED (KMPH)</b> | <b>CATEGORY OF CYCLONIC<br/>DISTURBANCE</b> |
|-----------------------|---|--|---|
| 11.06.2015/0600       | 20.8/60.5                                   | 60-70 GUSTING TO 80  | CYCLONIC STORM                              |
| 11.06.2015/1200       | 20.7/60.2                                   | 55-65 GUSTING TO 75  | DEEP DEPRESSION                             |
| 11.06.2015/1800       | 20.6/59.7                                   | 50-60 GUSTING TO 70  | DEEP DEPRESSION                             |
| 12.06.2015/0000       | 20.6/59.2                                   | 45-55 GUSTING TO 65  | DEPRESSION                                  |
| 12.06.2015/0600       | 20.6/58.7                                   | 40-50 GUSTING TO 60  | DEPRESSION                                  |
| 12.06.2015/1800       | 20.5/58.2                                   | 25-35 GUSTING TO 45  | LOW PRESSURE AREA                           |

**REMARKS:**

UPPER TROPOSPHERIC RIDGE LIES ALONG LATITUDE 24.0°N AND ASSOCIATED ANTICYCLONE LIES TO NORTHWEST OF THE SYSTEM. AS A RESULT, THE UPPER TROPOSPHERIC WIND IS EAST-NORTHEASTERLY WHICH MAY HELP THE SYSTEM TO MOVE WEST-SOUTHWESTWARDS. MADDEN-JULIAN OSCILLATION LIES IN PHASE-2 WITH AMPLITUDE > 1. IT WOULD MOVE TO PHASE 3 WITH AMPLITUDE > 1 DURING NEXT 24 HOURS. THE SEA SURFACE TEMPERATURE IS BETWEEN 29-30°C, OCEAN THERMAL ENERGY IS LESS THAN 50 KJ/CM<sup>2</sup>. LOW LEVEL CONVERGENCE, UPPER LEVEL DIVERGENCE AND THE LOW LEVEL RELATIVE VORTICITY HAS REMAINED SAME DURING PAST SIX HOURS. VERTICAL WIND SHEAR IS MODERATE AROUND SYSTEM CENTRE. IT IS HIGH TO THE SOUTH AND LOW TO THE NORTH. AS THE SYSTEM IS MOVING WEST-SOUTHWESTWARDS, IT IS EXPERIENCING MODERATE TO HIGH WIND SHEAR. FURTHER, THE SYSTEM IS INTERACTING WITH LAND SURFACE. LATEST TOTAL PRECIPITABLE WATER IMAGERY INDICATES COMMENCEMENT OF DRY AIR INTRUSION TO THE SYSTEM FROM WESTERN SIDE. AS A RESULT, THE SYSTEM WOULD WEAKEN GRADUALLY DURING NEXT 36 HOURS.

**THE NEXT BULLETIN WILL BE ISSUED AT 1200 UTC OF 11 JUNE 2015.**

(M. MOHAPATRA )  
HEAD RSMC  
Ph: 011-24652484, 24631913

TOO/ 11/1345 HRS IST



Earth System Science Organisation  
Ministry of Earth Sciences  
India Meteorological Department

**TROPICAL CYCLONE ADVISORY BULLETIN**

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

TROPICAL STORM 'ASHOBAA' ADVISORY NO. TWENTY SEVEN ISSUED AT 1200 UTC OF 11 JUNE 2015 BASED ON 0900 UTC OF 11 JUNE 2015.

THE CYCLONIC STORM (ASHOBAA) OVER NORTHWEST ARABIAN SEA MOVED WESTWARDS DURING PAST 6 HOURS AND LAY CENTRED AT 0900 UTC OF 11 JUNE 2015 NEAR LATITUDE 20.8°N AND LONGITUDE 60.3°E, ABOUT 150 KM EAST-NORTHEAST OF MASIRAH (41288) AND 140 KM SOUTHEAST OF RAS AL HADD (41270). THE SYSTEM WOULD MOVE NEARLY WESTWARDS AND CROSS OMAN COAST AS A DEPRESSION NEAR LATITUDE 20.8°N AROUND 0900 UTC OF 12 JUNE 2015.

ACCORDING TO SATELLITE IMAGERIES, THE INTENSITY OF THE SYSTEM IS T 2.5. THE CONVECTION IS PERSISTING DURING PAST 3 HOURS WITH RESPECT TO ORGANISATION AND ITS DEPTH. MAJOR CONVECTIVE CLOUDS LIE IN THE SOUTHERN SECTOR AND IS ELONGATED FROM NORTHEAST TO SOUTHWEST DIRECTION. ASSOCIATED BROKEN LOW AND MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION LIES OVER AREA BETWEEN LATITUDE 16.0°N & 24.0° N AND WEST OF LONGITUDE 63.5°E. THE LOWEST CLOUD-TOP TEMPERATURE IS -81°C. MAXIMUM SUSTAINED SURFACE WIND SPEED IS ESTIMATED TO BE ABOUT 35 KNOTS GUSTING TO 45 KNOTS AROUND THE SYSTEM CENTRE. THE STATE OF THE SEA IS HIGH TO VERY HIGH AROUND THE SYSTEM CENTRE. THE ESTIMATED CENTRAL PRESSURE IS ABOUT 994 HPA. RAS AL HADD REPORTED MSLP 998.0 HPA AND SURFACE WIND 030/14 KT. MASIRAH REPORTED MSLP 999.0 HPA AND SURFACE WIND 010/18 KT.

**FORECAST TRACK AND INTENSITY OF THE SYSTEM ARE GIVEN IN THE TABLE BELOW:**

| <b>DATE/TIME(UTC)</b> | <b>POSITION<br/>(LAT. °N/ LONG.<br/>°E)</b> | <b>MAXIMUM SUSTAINED<br/>SURFACE<br/>WIND SPEED (KMPH)</b> | <b>CATEGORY OF CYCLONIC<br/>DISTURBANCE</b> |
|-----------------------|---|--|---|
| 11.06.2015/0900       | 20.8/60.3                                   | 60-70 GUSTING TO 80  | CYCLONIC STORM                              |
| 11.06.2015/1200       | 20.8/60.1                                   | 60-70 GUSTING TO 80  | CYCLONIC STORM                              |
| 11.06.2015/1800       | 20.8/59.7                                   | 60-70 GUSTING TO 80  | CYCLONIC STORM                              |
| 12.06.2015/0000       | 20.8/59.3                                   | 55-65 GUSTING TO 75  | DEEP DEPRESSION                             |
| 12.06.2015/0600       | 20.8/58.9                                   | 45-55 GUSTING TO 65  | DEPRESSION                                  |
| 12.06.2015/1800       | 20.8/58.2                                   | 25-35 GUSTING TO 45  | LOW PRESSURE AREA                           |

**REMARKS:**

UPPER TROPOSPHERIC RIDGE LIES ALONG LATITUDE 22.0°N AND ASSOCIATED ANTICYCLONES LIE TO THE NORTHWEST AND THE OTHER TO THE NORTHEAST OF THE SYSTEM. AS A RESULT, THE UPPER TROPOSPHERIC WIND IS NEARLY EASTERLY WHICH MAY HELP THE SYSTEM TO MOVE WESTWARDS. THE SEA SURFACE TEMPERATURE IS BETWEEN 29-30°C, OCEAN THERMAL ENERGY IS LESS THAN 50 KJ/CM<sup>2</sup>. LOW LEVEL CONVERGENCE, UPPER LEVEL DIVERGENCE AND THE LOW LEVEL RELATIVE VORTICITY HAVE REMAINED SAME DURING PAST SIX HOURS. VERTICAL WIND SHEAR IS MODERATE AROUND SYSTEM CENTRE. IT IS HIGH TO THE SOUTH AND LOW TO THE NORTH. AS THE SYSTEM IS MOVING WEST-SOUTHWESTWARDS, IT IS EXPERIENCING MODERATE TO HIGH WIND SHEAR. FURTHER, THE SYSTEM IS INTERACTING WITH LAND SURFACE. TOTAL PRECIPITABLE WATER IMAGERY INDICATES COMMENCEMENT OF DRY AIR INTRUSION TO THE SYSTEM FROM WESTERN SIDE. AS A RESULT, THE SYSTEM WOULD WEAKEN GRADUALLY DURING NEXT 36 HOURS.

**THE NEXT BULLETIN WILL BE ISSUED AT 1500 UTC OF 11 JUNE 2015.**

(M. MOHAPATRA )  
HEAD RSMC  
Ph: 011-24652484, 24631913

TOO/ 11/1715 HRS IST



Earth System Science Organisation  
Ministry of Earth Sciences  
India Meteorological Department

**TROPICAL CYCLONE ADVISORY BULLETIN**

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

TROPICAL STORM 'ASHOBAA' ADVISORY NO. TWENTY EIGHT ISSUED AT 1500 UTC OF 11 JUNE 2015 BASED ON 1200 UTC OF 11 JUNE 2015.

THE CYCLONIC STORM (ASHOBAA) OVER NORTHWEST ARABIAN SEA MOVED WESTWARDS DURING PAST 6 HOURS AND LAY CENTRED AT 1200 UTC OF 11 JUNE 2015 NEAR LATITUDE 20.8°N AND LONGITUDE 60.0°E, ABOUT 120 KM EAST-NORTHEAST OF MASIRAH (41288) AND 110 KM SOUTH-SOUTHEAST OF RAS AL HADD (41270). THE SYSTEM WOULD MOVE NEARLY WESTWARDS AND CROSS OMAN COAST AS A DEPRESSION NEAR LATITUDE 20.8°N AROUND 0900 UTC OF 12 JUNE 2015.

ACCORDING TO SATELLITE IMAGERIES, THE INTENSITY OF THE SYSTEM IS T 2.5. THE CONVECTION IS PERSISTING DURING PAST 3 HOURS THOUGH THERE IS A SIGN OF DISORGANISATION. MAJOR CONVECTIVE CLOUDS LIE IN THE SOUTHERN SECTOR AND IS ELONGATED FROM NORTHEAST TO SOUTHWEST DIRECTION. ASSOCIATED BROKEN LOW AND MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION LIES OVER AREA BETWEEN LATITUDE 17.0°N & 24.5° N AND WEST OF LONGITUDE 63.5°E AND OMAN. THE LOWEST CLOUD-TOP TEMPERATURE IS -80°C. MAXIMUM SUSTAINED SURFACE WIND SPEED IS ESTIMATED TO BE ABOUT 35 KNOTS GUSTING TO 45 KNOTS AROUND THE SYSTEM CENTRE. THE STATE OF THE SEA IS HIGH TO VERY HIGH AROUND THE SYSTEM CENTRE. THE ESTIMATED CENTRAL PRESSURE IS ABOUT 994 HPA. RAS AL HADD REPORTED MSLP 996.5 HPA AND SURFACE WIND 030/17 KT. MASIRAH REPORTED MSLP 998.2 HPA AND SURFACE WIND 350/10 KT. A SHIP NEAR 18.2° N /59.3°E REPORTED MSLP 997.0 AND SURFACE WIND 240/31KT.

**FORECAST TRACK AND INTENSITY OF THE SYSTEM ARE GIVEN IN THE TABLE BELOW:**

| <b>DATE/TIME(UTC)</b> | <b>POSITION<br/>(LAT. °N/ LONG.<br/>°E)</b> | <b>MAXIMUM SUSTAINED<br/>SURFACE<br/>WIND SPEED (KMPH)</b> | <b>CATEGORY OF CYCLONIC<br/>DISTURBANCE</b> |
|-----------------------|---|--|---|
| 11.06.2015/1200       | 20.8/60.0                                   | 60-70 GUSTING TO 80  | CYCLONIC STORM                              |
| 11.06.2015/1800       | 20.8/59.6                                   | 55-65 GUSTING TO 75  | DEEP DEPRESSION                             |
| 12.06.2015/0000       | 20.8/59.2                                   | 55-65 GUSTING TO 75  | DEEP DEPRESSION                             |
| 12.06.2015/0600       | 20.8/58.8                                   | 45-55 GUSTING TO 65  | DEPRESSION                                  |
| 12.06.2015/1200       | 20.8/58.4                                   | 35-45 GUSTING TO 55  | DEPRESSION                                  |
| 13.06.2015/0000       | 20.8/57.6                                   | 25-35 GUSTING TO 45  | LOW PRESSURE AREA                           |

**REMARKS:**

UPPER TROPOSPHERIC RIDGE LIES ALONG LATITUDE 22.0°N AND ASSOCIATED ANTICYCLONES LIE TO THE NORTHWEST AND THE OTHER TO THE NORTHEAST OF THE SYSTEM. AS A RESULT, THE UPPER TROPOSPHERIC WIND IS NEARLY EASTERLY WHICH MAY HELP THE SYSTEM TO MOVE WESTWARDS. THE SEA SURFACE TEMPERATURE IS BETWEEN 29-30°C, OCEAN THERMAL ENERGY IS LESS THAN 50 KJ/CM<sup>2</sup>. LOW LEVEL CONVERGENCE, UPPER LEVEL DIVERGENCE AND THE LOW LEVEL RELATIVE VORTICITY HAVE REMAINED SAME DURING PAST SIX HOURS. VERTICAL WIND SHEAR IS MODERATE AROUND SYSTEM CENTRE. IT IS HIGH TO THE SOUTH AND LOW TO THE NORTH. AS THE SYSTEM IS MOVING WEST-SOUTHWESTWARDS, IT IS EXPERIENCING MODERATE TO HIGH WIND SHEAR. FURTHER, THE SYSTEM IS INTERACTING WITH LAND SURFACE. TOTAL PRECIPITABLE WATER IMAGERY INDICATES COMMENCEMENT OF DRY AIR INTRUSION TO THE SYSTEM FROM WESTERN SIDE. AS A RESULT, THE SYSTEM WOULD WEAKEN GRADUALLY DURING NEXT 36 HOURS.

**THE NEXT BULLETIN WILL BE ISSUED AT 1800 UTC OF 11 JUNE 2015.**

(M. MOHAPATRA )  
HEAD RSMC  
Ph: 011-24652484, 24631913

TOO/ 11/2000 HRS IST



Earth System Science Organisation  
Ministry of Earth Sciences  
India Meteorological Department

**TROPICAL CYCLONE ADVISORY BULLETIN**

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

TROPICAL STORM 'ASHOBAA' ADVISORY NO. TWENTY NINE ISSUED AT 1700 UTC OF 11 JUNE 2015 BASED ON 1500 UTC OF 11 JUNE 2015.

THE CYCLONIC STORM (ASHOBAA) OVER NORTHWEST ARABIAN SEA MOVED WESTWARDS DURING PAST 6 HOURS AND LAY CENTRED AT 1500 UTC OF 11 JUNE 2015 NEAR LATITUDE 20.8<sup>0</sup>N AND LONGITUDE 59.7<sup>0</sup>E, ABOUT 90 KM EAST-NORTHEAST OF MASIRAH (41288) AND 80 KM SOUTH-SOUTHEAST OF RAS AL HADD (41270). THE SYSTEM WOULD MOVE NEARLY WESTWARDS AND CROSS OMAN COAST AS A DEPRESSION NEAR LATITUDE 20.8<sup>0</sup>N AROUND 0900 UTC OF 12 JUNE 2015.

ACCORDING TO SATELLITE IMAGERIES, THE INTENSITY OF THE SYSTEM IS T 2.5. THE CONVECTION IS PERSISTING DURING PAST 3 HOURS THOUGH THERE IS A SIGN OF DISORGANISATION. MAJOR CONVECTIVE CLOUDS LIE IN THE SOUTHERN SECTOR AND IS ELONGATED FROM NORTHEAST TO SOUTHWEST DIRECTION. ASSOCIATED BROKEN LOW AND MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION LIES OVER AREA BETWEEN LATITUDE 18.0<sup>0</sup>N & 25.0<sup>0</sup> N AND WEST OF LONGITUDE 63.5<sup>0</sup>E AND OMAN. THE LOWEST CLOUD-TOP TEMPERATURE IS -84<sup>0</sup>C. MAXIMUM SUSTAINED SURFACE WIND SPEED IS ESTIMATED TO BE ABOUT 35 KNOTS GUSTING TO 45 KNOTS AROUND THE SYSTEM CENTRE. THE STATE OF THE SEA IS HIGH TO VERY HIGH AROUND THE SYSTEM CENTRE. THE ESTIMATED CENTRAL PRESSURE IS ABOUT 994 HPA. RAS AL HADD REPORTED MSLP 997.9 HPA AND SURFACE WIND 045/20 KT. MASIRAH REPORTED MSLP 996.6 HPA AND SURFACE WIND 010/20 KT.

**FORECAST TRACK AND INTENSITY OF THE SYSTEM ARE GIVEN IN THE TABLE BELOW:**

| <b>DATE/TIME(UTC)</b> | <b>POSITION<br/>(LAT. <sup>0</sup>N/ LONG.<br/><sup>0</sup>E)</b> | <b>MAXIMUM SUSTAINED<br/>SURFACE<br/>WIND SPEED (KMPH)</b> | <b>CATEGORY OF CYCLONIC<br/>DISTURBANCE</b> |
|-----------------------|---|--|---|
| 11.06.2015/1500       | 20.8/59.7   | 60-70 GUSTING TO 80  | CYCLONIC STORM                              |
| 11.06.2015/1800       | 20.8/59.6   | 55-65 GUSTING TO 75  | DEEP DEPRESSION                             |
| 12.06.2015/0000       | 20.8/59.2   | 55-65 GUSTING TO 75  | DEEP DEPRESSION                             |
| 12.06.2015/0600       | 20.8/58.8   | 45-55 GUSTING TO 65  | DEPRESSION                                  |
| 12.06.2015/1200       | 20.8/58.4   | 35-45 GUSTING TO 55  | DEPRESSION                                  |
| 13.06.2015/0000       | 20.8/57.6   | 25-35 GUSTING TO 45  | LOW PRESSURE AREA                           |

**REMARKS:**

UPPER TROPOSPHERIC RIDGE LIES ALONG LATITUDE 22.0°N AND ASSOCIATED ANTICYCLONES LIE TO THE NORTHWEST AND THE OTHER TO THE NORTHEAST OF THE SYSTEM. AS A RESULT, THE UPPER TROPOSPHERIC WIND IS NEARLY EASTERLY WHICH MAY HELP THE SYSTEM TO MOVE WESTWARDS. THE SEA SURFACE TEMPERATURE IS BETWEEN 29-30°C, OCEAN THERMAL ENERGY IS LESS THAN 50 KJ/CM<sup>2</sup>. LOW LEVEL CONVERGENCE, UPPER LEVEL DIVERGENCE AND THE LOW LEVEL RELATIVE VORTICITY HAVE REMAINED SAME DURING PAST NINE HOURS. VERTICAL WIND SHEAR IS MODERATE AROUND SYSTEM CENTRE. IT IS HIGH TO THE SOUTH AND LOW TO THE NORTH. AS THE SYSTEM IS MOVING WEST-SOUTHWESTWARDS, IT IS EXPERIENCING MODERATE TO HIGH WIND SHEAR. FURTHER, THE SYSTEM IS INTERACTING WITH LAND SURFACE. TOTAL PRECIPITABLE WATER IMAGERY INDICATES COMMENCEMENT OF DRY AIR INTRUSION TO THE SYSTEM FROM WESTERN SIDE. AS A RESULT, THE SYSTEM WOULD WEAKEN GRADUALLY DURING NEXT 36 HOURS.

**THE NEXT BULLETIN WILL BE ISSUED AT 2100 UTC OF 11 JUNE 2015.**

(RANJEET SINGH )  
Scientist -E  
Ph: 011-24652484, 24631913

TOO/ 11/2230 HRS IST





Earth System Science Organisation  
Ministry of Earth Sciences  
India Meteorological Department

**TROPICAL CYCLONE ADVISORY BULLETIN**

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

TROPICAL STORM 'ASHOBAA' ADVISORY NO. THIRTY ISSUED AT 2000 UTC OF 11 JUNE 2015 BASED ON 1800 UTC OF 11 JUNE 2015.

THE CYCLONIC STORM (ASHOBAA) OVER NORTHWEST ARABIAN SEA REMAINED PRACTICALLY STATIONARY DURING PAST 3 HOURS, WEAKENED INTO A DEEP DEPRESSION AND LAY CENTRED AT 1800 UTC OF 11 JUNE 2015 NEAR LATITUDE 20.8°N AND LONGITUDE 59.7°E, ABOUT 90 KM EAST-NORTHEAST OF MASIRAH (41288) AND 80 KM SOUTH-SOUTHEAST OF RAS AL HADD (41270). THE SYSTEM WOULD MOVE NEARLY WESTWARDS AND CROSS OMAN COAST AS A DEPRESSION NEAR LATITUDE 20.8°N AROUND 0900 UTC OF 12 JUNE 2015.

ACCORDING TO SATELLITE IMAGERIES, THE INTENSITY OF THE SYSTEM IS T 2.0. THERE IS A SIGN OF DISORGANISATION. ASSOCIATED BROKEN LOW AND MEDIUM CLOUDS WITH EMBEDDED MODERATE TO INTENSE CONVECTION LIES OVER AREA BETWEEN LATITUDE 18.0°N & 24.0°N AND WEST OF LONGITUDE 62.5°E AND OMAN. THE LOWEST CLOUD-TOP TEMPERATURE IS -64°C. MAXIMUM SUSTAINED SURFACE WIND SPEED IS ESTIMATED TO BE ABOUT 30 KNOTS GUSTING TO 40 KNOTS AROUND THE SYSTEM CENTRE. THE STATE OF THE SEA IS VERY ROUGH AROUND THE SYSTEM CENTRE. THE ESTIMATED CENTRAL PRESSURE IS ABOUT 996 HPA. RAS AL HADD REPORTED MSLP 999.5 HPA AND SURFACE WIND 020/10 KT. MASIRAH REPORTED MSLP 998.6 HPA AND SURFACE WIND 330/20 KT. A SHIP NEAR 19.1°N/59.2°E REPORTED MSLP 999.0 HPA AND SURFACE WIND 270/25KT.

**FORECAST TRACK AND INTENSITY OF THE SYSTEM ARE GIVEN IN THE TABLE BELOW:**

| <b>DATE/TIME(UTC)</b> | <b>POSITION<br/>(LAT. °N/ LONG.<br/>°E)</b> | <b>MAXIMUM SUSTAINED<br/>SURFACE<br/>WIND SPEED (KMPH)</b> | <b>CATEGORY OF CYCLONIC<br/>DISTURBANCE</b> |
|-----------------------|---|--|---|
| 11.06.2015/1800       | 20.8/59.7                                   | 55-65 GUSTING TO 75  | DEEP DEPRESSION                             |
| 12.06.2015/0000       | 20.8/59.6                                   | 55-65 GUSTING TO 75  | DEEP DEPRESSION                             |
| 12.06.2015/0600       | 20.8/59.1                                   | 45-55 GUSTING TO 65  | DEPRESSION                                  |
| 12.06.2015/1200       | 20.8/58.5                                   | 35-45 GUSTING TO 55  | DEPRESSION                                  |
| 13.06.2015/1800       | 20.8/57.8                                   | 25-35 GUSTING TO 45  | LOW PRESSURE AREA                           |

**REMARKS:**

UPPER TROPOSPHERIC RIDGE LIES ALONG LATITUDE 22.0°N AND ASSOCIATED ANTICYCLONES LIE TO THE NORTHWEST AND THE OTHER TO THE NORTHEAST OF THE SYSTEM. AS A RESULT, THE UPPER TROPOSPHERIC WIND IS NEARLY EASTERLY WHICH MAY HELP THE SYSTEM TO MOVE WESTWARDS. THE SEA SURFACE TEMPERATURE IS BETWEEN 29-30°C, OCEAN THERMAL ENERGY IS LESS THAN 50 KJ/CM<sup>2</sup>. LOW LEVEL CONVERGENCE, UPPER LEVEL DIVERGENCE AND THE LOW LEVEL RELATIVE VORTICITY HAVE DECREASED WHILE VERTICAL WIND SHEAR HAS INCREASED DURING PAST SIX HOURS. AS THE SYSTEM IS MOVING WEST-SOUTHWESTWARDS, IT IS EXPERIENCING MODERATE TO HIGH WIND SHEAR. FURTHER, THE SYSTEM IS INTERACTING WITH LAND SURFACE. TOTAL PRECIPITABLE WATER IMAGERY INDICATES COMMENCEMENT OF DRY AIR INTRUSION TO THE SYSTEM FROM WESTERN SIDE. AS A RESULT, THE SYSTEM WOULD WEAKEN GRADUALLY DURING NEXT 24 HOURS.

**THE NEXT BULLETIN WILL BE ISSUED AT 0300 UTC OF 12 JUNE 2015.**

(RANJEET SINGH )  
Scientist -E  
Ph: 011-24652484, 24631913

TOO/ 12/0130 HRS IST



**Earth System Science Organisation  
Ministry of Earth Sciences  
India Meteorological Department**

**SPECIAL TROPICAL WEATHER OUTLOOK**

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

TROPICAL STORM 'ASHOBAA' ADVISORY NO. THIRTY ONE ISSUED AT 0300 UTC OF 12 JUNE 2015 BASED ON 0000 UTC OF 12 JUNE 2015.

THE DEEP DEPRESSION OVER NORTHWEST ARABIAN SEA MOVED WESTWARDS, WEAKENED IN TO A DEPRESSION AND LAY CENTRED AT 0000 UTC OF 12 JUNE 2015 NEAR LATITUDE 20.8°N AND LONGITUDE 59.5°E, ABOUT 60 KM EAST-NORTHEAST OF MASIRAH (41288), OMAN. THE SYSTEM WOULD MOVE NEARLY WESTWARDS, WEAKEN FURTHER INTO A WELL MARKED LOW PRESSURE AREA DURING NEXT 12 HOURS. IT WOULD CROSS OMAN COAST AS A WELL MARKED LOW PRESSURE AREA.

ACCORDING TO SATELLITE IMAGERIES, THE INTENSITY OF THE SYSTEM IS T 1.5. THERE IS DISORGANISATION OF CONVECTIVE CLOUDS. THE CONVECTION IS SHEARED TO THE SOUTHWEST OF THE SYSTEM CENTRE. ASSOCIATED BROKEN LOW AND MEDIUM CLOUDS WITH EMBEDDED MODERATE TO INTENSE CONVECTION LIES OVER AREA BETWEEN LATITUDE 18.0°N & 23.5° N AND WEST OF LONGITUDE 61.5°E AND OMAN. THE LOWEST CLOUD-TOP TEMPERATURE IS -66°C. MAXIMUM SUSTAINED SURFACE WIND SPEED IS ESTIMATED TO BE ABOUT 25 KNOTS GUSTING TO 35 KNOTS AROUND THE SYSTEM CENTRE. THE STATE OF THE SEA IS ROUGH TO VERY ROUGH AROUND THE SYSTEM CENTRE AND ALONG AND OFF OMAN COAST. THE ESTIMATED CENTRAL PRESSURE IS ABOUT 996 HPA. SURFACE OBSERVATIONS AT MASIRAH INDICATE CHANGE IN WIND DIRECTION FROM 340° AT 1800 UTC OF 11<sup>TH</sup> TO 320° AT 0000 UTC OF 12<sup>TH</sup>. AT RAS AL HADD, WIND DIRECTION CHANGED FROM 20° AT 1800 UTC OF 11<sup>TH</sup> TO 60° AT 0000 UTC OF 12<sup>TH</sup>. MEAN SEA LEVEL PRESSURE FELL BY 1.5 HPA AT BOTH THE STATIONS FROM 1800 UTC OF 11 TO 0000 UTC OF 12<sup>TH</sup>. ALL THESE OBSERVATIONS INDICATE THAT THE SYSTEM MOVED WESTWARDS TOWARDS OMAN COAST DURING THE PAST 6 HOURS.

**REMARKS:**

UPPER TROPOSPHERIC RIDGE LIES ALONG LATITUDE 25.0°N AND ASSOCIATED ANTICYCLONES LIE TO THE NORTHWEST AND THE OTHER TO THE NORTHEAST OF THE SYSTEM. AS A RESULT, THE UPPER TROPOSPHERIC WIND IS NEARLY EASTERLY WHICH IS HELPING THE SYSTEM TO MOVE WESTWARDS. THE COLDER SEA SURFACE TEMPERATURE ALONGWITH LOWER OCEAN THERMAL ENERGY, INTERACTION WITH LAND SURFACE AND INTRUSION OF DRY AIR RESULTED IN WEAKENING OF THE SYSTEM TO DEPRESSION. FURTHER, LOW LEVEL CONVERGENCE, UPPER LEVEL DIVERGENCE AND THE LOW LEVEL RELATIVE VORTICITY HAVE ALSO DECREASED DURING PAST SIX HOURS WHILE VERTICAL WIND SHEAR HAS INCREASED AND BECOME HIGH (20-30 KNOTS) DURING THE SAME PERIOD. AS THE SIMILAR CONDITION IS EXPECTED TO PREVAIL OVER THE REGION, THE DEPRESSION WOULD MOVE WESTWARDS AND WEAKEN FURTHER INTO A WELL MARKED LOW PRESSURE AREA DURING NEXT 12 HOURS.

**THE NEXT BULLETIN WILL BE ISSUED AT 0600 UTC OF 12 JUNE 2015.**

(M. MOHAPATRA )  
HEAD, RSMC

Ph: 011-24652484, 24631913

TOO/ 12/0800 HRS IST



**Earth System Science Organisation  
Ministry of Earth Sciences  
India Meteorological Department**

**SPECIAL TROPICAL WEATHER OUTLOOK**

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

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

**RSMC – TROPICAL CYCLONES, NEW DELHI**

TROPICAL STORM 'ASHOBAA' ADVISORY NO. THIRTY TWO ISSUED AT 0600 UTC OF 12 JUNE 2015 BASED ON 0300 UTC OF 12 JUNE 2015.

THE DEPRESSION OVER NORTHWEST ARABIAN SEA REMAINED PRACTICALLY STATIONARY AND LAY CENTRED AT 0300 UTC OF 12 JUNE 2015 NEAR LATITUDE 20.8°N AND LONGITUDE 59.5°E, ABOUT 60 KM EAST-NORTHEAST OF MASIRAH (41288), OMAN. THE SYSTEM WOULD MOVE NEARLY WESTWARDS, WEAKEN FURTHER INTO A WELL MARKED LOW PRESSURE AREA DURING NEXT 12 HOURS. IT WOULD CROSS OMAN COAST AS A WELL MARKED LOW PRESSURE AREA.

ACCORDING TO SATELLITE IMAGERIES, THE INTENSITY OF THE SYSTEM IS T 1.5. THERE IS DISORGANISATION OF CONVECTIVE CLOUDS. THE CONVECTION IS SHEARED TO THE SOUTHWEST OF THE SYSTEM CENTRE. ASSOCIATED BROKEN LOW AND MEDIUM CLOUDS WITH EMBEDDED MODERATE TO INTENSE CONVECTION LIES OVER AREA BETWEEN LATITUDE 18.5°N & 24° N AND WEST OF LONGITUDE 61.5°E AND OMAN. THE LOWEST CLOUD-TOP TEMPERATURE IS -90°C. MAXIMUM SUSTAINED SURFACE WIND SPEED IS ESTIMATED TO BE ABOUT 25 KNOTS GUSTING TO 35 KNOTS AROUND THE SYSTEM CENTRE AND ALONG AND OFF OMAN COAST. THE STATE OF THE SEA IS ROUGH TO VERY ROUGH AROUND THE SYSTEM CENTRE AND ALONG AND OFF OMAN COAST. THE ESTIMATED CENTRAL PRESSURE IS ABOUT 996 HPA. SURFACE OBSERVATIONS AT MASIRAH INDICATE MSLP 997.6 HPA AND WIND 330°/30KT. RAS AL HADD INDICATE MSLP 999.9 HPA AND WIND 070°/18 KT. MEAN SEA LEVEL PRESSURE HAS INCREASED BY ABOUT 2 HPA AT BOTH THE STATIONS FROM DURING PAST THREE HOURS.

**REMARKS:**

UPPER TROPOSPHERIC RIDGE LIES ALONG LATITUDE 25.0°N AND ASSOCIATED ANTICYCLONES LIE TO THE NORTHWEST AND THE OTHER TO THE NORTHEAST OF THE SYSTEM. AS A RESULT, THE UPPER TROPOSPHERIC WIND IS NEARLY EASTERLY WHICH IS HELPING THE SYSTEM TO MOVE WESTWARDS. THE COLDER SEA SURFACE TEMPERATURE ALONGWITH LOWER OCEAN THERMAL ENERGY, INTERACTION WITH LAND SURFACE AND INTRUSION OF DRY AIR IS HELPING IN WEAKENING OF THE SYSTEM. FURTHER, LOW LEVEL CONVERGENCE, UPPER LEVEL DIVERGENCE AND THE LOW LEVEL RELATIVE VORTICITY HAVE REMAINED SAME DURING PAST SIX HOURS WHILE VERTICAL WIND SHEAR HAS BECOME HIGH (20-30 KNOTS) DURING THE SAME PERIOD. AS THE SIMILAR CONDITION IS EXPECTED TO PREVAIL OVER THE REGION, THE DEPRESSION WOULD MOVE WESTWARDS AND WEAKEN FURTHER INTO A WELL MARKED LOW PRESSURE AREA DURING NEXT 12 HOURS.

**THE NEXT BULLETIN WILL BE ISSUED AT 0900 UTC OF 12 JUNE 2015.**

(M. MOHAPATRA )  
HEAD, RSMC

Ph: 011-24652484, 24631913

TOO/ 12/1100 HRS IST



**Earth System Science Organisation  
Ministry of Earth Sciences  
India Meteorological Department**

**SPECIAL TROPICAL WEATHER OUTLOOK**

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

TROPICAL STORM 'ASHOBAA' ADVISORY NO. THIRTY THREE ISSUED AT 0900 UTC OF 12 JUNE 2015 BASED ON 0600 UTC OF 12 JUNE 2015.

THE DEPRESSION OVER NORTHWEST ARABIAN SEA REMAINED PRACTICALLY STATIONARY AND LAY CENTRED AT 0600 UTC OF 12 JUNE 2015 NEAR LATITUDE 20.8°N AND LONGITUDE 59.5°E, ABOUT 60 KM EAST-NORTHEAST OF MASIRAH (41288), OMAN. THE SYSTEM WOULD MOVE NEARLY WESTWARDS, WEAKEN FURTHER INTO A WELL MARKED LOW PRESSURE AREA DURING NEXT 12 HOURS. IT WOULD CROSS OMAN COAST AS A WELL MARKED LOW PRESSURE AREA.

ACCORDING TO SATELLITE IMAGERIES, THE INTENSITY OF THE SYSTEM IS T 1.5. THE CONVECTION IS SHEARED TO THE SOUTHWEST OF THE SYSTEM CENTRE. ASSOCIATED BROKEN LOW AND MEDIUM CLOUDS WITH EMBEDDED MODERATE TO INTENSE CONVECTION LIES OVER AREA BETWEEN LATITUDE 18.5°N & 24°N AND WEST OF LONGITUDE 61.5°E AND OMAN. THE LOWEST CLOUD-TOP TEMPERATURE IS -71°C. MAXIMUM SUSTAINED SURFACE WIND SPEED IS ESTIMATED TO BE ABOUT 25 KNOTS GUSTING TO 35 KNOTS AROUND THE SYSTEM CENTRE AND ALONG AND OFF OMAN COAST. THE STATE OF THE SEA IS ROUGH TO VERY ROUGH AROUND THE SYSTEM CENTRE AND ALONG AND OFF OMAN COAST. THE ESTIMATED CENTRAL PRESSURE IS ABOUT 996 HPA. SURFACE OBSERVATIONS AT MASIRAH INDICATE MSLP 997.7HPA AND WIND 320°/37KT. RAS AL HADD INDICATES MSLP 1000.9HPA AND WIND 070°/17 KT. MEAN SEA LEVEL PRESSURE HAS INCREASED BY ABOUT 1HPA OVER RAS AL HADD AND NO SIGNIFICANT CHANGE OVER MASIRAH DURING PAST THREE HOURS.

**REMARKS:**

UPPER TROPOSPHERIC RIDGE LIES ALONG LATITUDE 24.0°N AND ASSOCIATED ANTICYCLONES LIE TO THE NORTHWEST AND THE OTHER TO THE NORTH-NORTHEAST OF THE SYSTEM. AS A RESULT, THE UPPER TROPOSPHERIC WIND IS NEARLY EASTERLY WHICH WOULD HELP THE SYSTEM TO MOVE WESTWARDS SLOWLY. THE COLDER SEA SURFACE TEMPERATURE ALONGWITH LOWER OCEAN THERMAL ENERGY, INTERACTION WITH LAND SURFACE AND INTRUSION OF DRY AIR WOULD RESULT IN WEAKENING OF THE SYSTEM. FURTHER, LOW LEVEL CONVERGENCE, UPPER LEVEL DIVERGENCE AND THE LOW LEVEL RELATIVE VORTICITY HAVE REMAINED SAME DURING PAST SIX HOURS. THE VERTICAL WIND SHEAR HAS DECREASED LOCALLY BECOMING MODERATE (10-20 KNOTS) DURING PAST THREE HOURS AND IS HIGH (20-30 KNOTS) TO THE SOUTH OF THE SYSTEM CENTRE. AS THE SIMILAR CONDITION IS EXPECTED TO PREVAIL OVER THE REGION, THE DEPRESSION WOULD MOVE WESTWARDS AND WEAKEN SLOWLY INTO A WELL MARKED LOW PRESSURE AREA DURING NEXT 12 HOURS.

**THE NEXT BULLETIN WILL BE ISSUED AT 1500 UTC OF 12 JUNE 2015.**

(M.MOHAPATRA )  
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TOO/ 12/1300 HRS IST



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

**DEMS-RSMC SPECIAL TROPICAL CYCLONES NEW DELHI DATED 12-06-2015**

THE DEPRESSION OVER NORTHWEST ARABIAN SEA MOVED SLIGHTLY WEST-SOUTHWESTWARDS AND WEAKENED INTO A WELL-MARKED LOW PRESSURE AREA OVER NORTHWEST ARABIAN SEA AND ADJOINING OMAN COAST AT 1200 UTC OF TODAY, THE 12 JUNE, 2015.

ACCORDING TO LATEST SATELLITE IMAGERY, INTENSITY IS T 1.0. ASSOCIATED BROKEN LOW/MEDIUM CLOUDS WITH EMBEDDED MODERATE TO INTENSE CONVECTION LIES OVER ARABIAN SEA BETWEEN LATITUDE 18.8°NORTH TO 24.0° NORTH AND WEST OF LONGITUDE 61.5° EAST AND OMAN. MAJORITY OF INTENSE CONVECTION IS SHEARED TO THE WEST OF THE CENTRE OF THE SYSTEM AND HENCE LIES OVER OMAN.

MASIRAH REPORTED MEAN SEA LEVEL PRESSURE (MSLP) OF 995.4 HPA AND SURFACE WIND OF 360°/17KT. RAS AL HADD REPORTED MSLP OF 998.2 HPA AND SURFACE WIND OF 080°/16KT.

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

**TOO: 121930 HRS IST.**

**(M.MOHAPATRA)  
SCIENTIST 'E', RSMC-NEW DELHI**