भारत मौसम विज्ञान विभाग
INDIA METEOROLOGICAL DEPARTMENT

SPECIAL TROPICAL WEATHER OUTLOOK

DEMS–RSMC TROPICAL CYCLONES NEW DELHI 28-10-2012

TROPICAL WEATHER OUTLOOK FOR NORTH INDIAN OCEAN (THE BAY OF BENGAL AND ARABIAN SEA) VALID FOR NEXT 24 HOURS ISSUED AT 0900 UTC OF 28 OCTOBER, 2011 BASED ON 0600 UTC OF 28 OCTOBER, 2012 (.)

LATEST SATELLITE IMAGERY AND BUOY OBSERVATIONS INDICATE THAT A DEPRESSION HAS FORMED OVER SOUTHEAST AND ADJOINING SOUTHWEST BAY OF BENGAL AND LAY CENTRED AT 0600 UTC OF TODAY, THE 28TH OCTOBER 2012 NEAR LATITUDE 9.5^{0}N AND LONGITUDE 86.0.^{0}E, ABOUT 730 KM SOUTHEAST OF CHENNAI (43279), 550 KM EAST-NORTHEAST OF TRINCOMALEE (43418). THE SYSTEM WOULD INTENSIFY INTO A DEEP DEPRESSION AND MOVE INITIALLY WESTWARDS TOWARDS TAMIL NADU COAST.

ACCORDING TO SATELLITE IMAGERIES, THE INTENSITY OF THE SYSTEM IS T 1.5. LOW/MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION SEEN OVER BAY OF BENGAL BETWEEN LAT 07.0^{0}N AND 13.0^{0}N AND LONG 85.0^{0}E TO 89^{0}E. BROKEN LOW/MEDIUM CLOUDS WITH EMBEDDED MODERATE TO INTENSE CONVECTION LIES OVER REST SE BAY BET LAT 5.0N TO 7.0N LONG 85.0E TO 90.0E. THE ASSOCIATED CONVECTION HAS INCREASED GRADUALLY WITH RESPECT TO HEIGHT AND ORGANISATION DURING PAST 12 HRS. THE LOWEST CLOUD TOP TEMPERATURE (CTT) IS ABOUT -70^{0}C.

SUSTAINED MAXIMUM SURFACE WIND SPEED IS ESTIMATED TO BE ABOUT 25 KNOTS GUSTING TO 35 KNOTS AROUND SYSTEM CENTRE. THE STATE OF THE SEA IS ROUGH TO VERY ROUGH AROUND THE SYSTEM CENTRE. THE ESTIMATED CENTRAL PRESSURE IS ABOUT 1004 HPA.

THE BUOY OBSERVATIONS AROUND SYSTEM CENTRE SHOWS 20-25 KNOTS WIND IN THE NORTHERN SECTOR AND ABOUT 15 KNOTS IN THE SOUTHERN SECTOR. AT 0600 UTC OF 28TH OCTOBER 2012, BUOY (POSITION NEAR 8.1^{0}N AND 85.5^{0}E) REPORTED WIND OF 240/18 KNOTS WIND AND 1005 HPA AS MEAN SEA LEVEL PRESSURE (mslp); BUOY (POSITION NEAR 11.0^{0}N AND 86.5^{0}E) REPORTED MSLP OF 1007.5 HPA AND WIND OF 090/23 KNOTS. EARLIER SCATTEROMETRY DATA INDICATED 25-30 KNOTS WIND IN THE NORTHERN SECTOR OF THE SYSTEM.

REMARK:
CONSIDERING THE ENVIRONMENTAL FEATURES, THE SEA SURFACE TEMPERATURE IS ABOUT 29-30 DEG. C. OVER SOUTH BAY OF BENGAL. THE OCEAN THERMAL ENERGY IS 50 - 80 KJ/CM SQUARE AROUND THE SYSTEM CENTRE. IT IS LESS TOWARDS THE NORTH OF THE SYSTEM. THE MADDEN JULIAN OSCILLATION INDEX CURRENTLY LIES OVER PHASE 2. AS PER STATISTICAL AND NWP MODEL PREDICTIONS, IT IS EXPECTED TO LIE IN PHASE 2 DURING NEXT 3 DAYS. THE UPPER TROPOSPHERIC RIDGE LIES ALONG 13 DEG.N AND HENCE PROVIDES REQUIRED POLEWARD OUTFLOW FOR INTENSIFICATION OF THE SYSTEM. THE LOW LEVEL CONVERGENCE AND RELATIVE VORTICITY HAVE INCREASED DURING PAST 24 HRS AS WELL AS UPPER LEVEL DIVERGENCE. THE VERTICAL WIND SHEAR BETWEEN 200 AND 850 HPA LEVELS IS MODERATE (10-20 KNOTS) AROUND SYSTEM CENTRE. HOWEVER, IT INCREASES TOWARDS NORTH TAMIL NADU AND ADJOINING SEA AREAS.

CONSIDERING THE NWP MODEL GUIDANCE, MOST OF THE MODELS SUGGEST THE INTENSIFICATION OF THE SYSTEM INTO A DEEP DEPRESSION AND SUBSEQUENTLY INTO A MARGINAL CYCLONIC STORM BY NEXT 48 HRS. DYNAMICAL- STATISTICAL MODEL OF IMD ALSO SUGGESTS THE SYSTEM TO INTENSIFY INTO A CYCLONIC STORM. WITH RESPECT TO TRACK, MOST MODELS SUGGEST WESTWARD/ WEST-SOUTHWESTWARD MOVEMENT DURING NEXT 48 HRS. HOWEVER, THERE IS DIVERGENCE IN NWP MODEL GUIDANCE THEREAFTER AS SOME MODELS SUGGEST NORTHWESTWARD MOVEMENT TOWARDS NORTH TAMIL NADU COAST AND SOME OTHER MODELS SUGGEST CONTINUOUS WESTWARD MOVEMENT TOWARDS NORTH SRI LANKA COAST.

(M MOHAPATRA)
SCIENTIST-E

TOO:281500 HRS IST

भारत मौसम विज्ञान विभाग
INDIA METEOROLOGICAL DEPARTMENT

SPECIAL TROPICAL WEATHER OUTLOOK

DEMS–RSMC TROPICAL CYCLONES NEW DELHI 28-10-2012

TROPICAL WEATHER OUTLOOK FOR NORTH INDIAN OCEAN (THE BAY OF BENGAL AND ARABIAN SEA) VALID FOR NEXT 24 HOURS ISSUED AT 1500 UTC OF 28 OCTOBER, 2011 BASED ON 1200 UTC OF 28 OCTOBER, 2012 (.)

THE DEPRESSION OVER SOUTHEAST AND ADJOINING SOUTHWEST BAY OF BENGAL MOVED WESTWARDS AND LAY CENTRED AT 1200 UTC OF TODAY, THE 28TH OCTOBER 2012 OVER SOUTHWEST BAY OF BENGAL NEAR LATITUDE 9.5^{0}N AND LONGITUDE 85.0^{0}E, ABOUT 650 KM SOUTHEAST OF CHENNAI (43279) AND 400 KM EAST-NORTHEAST OF TRINCOMALEE (43418). THE SYSTEM WOULD INTENSIFY INTO A DEEP DEPRESSION DURING NEXT 24 HRS AND SUBSEQUENTLY INTO A MARGINAL CYCLONIC STORM. THE SYSTEM WOULD MOVE WESTWARDS TOWARDS NORTH SRI LANKA AND TAMIL NADU COAST.

ACCORDING TO SATELLITE IMAGERIES, THE INTENSITY OF THE SYSTEM IS T 1.5. LOW/MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION SEEN OVER BAY OF BENGAL BETWEEN LAT 06.0^{0}N AND 13.0^{0}N AND WEST OF 88^{0}E AND SRI LANKA. THE ASSOCIATED CONVECTION HAS INCREASED GRADUALLY WITH RESPECT TO HEIGHT AND ORGANISATION DURING PAST 12 HRS. THE LOWEST CLOUD TOP TEMPERATURE (CTT) IS ABOUT -85^{0}C.

SUSTAINED MAXIMUM SURFACE WIND SPEED IS ESTIMATED TO BE ABOUT 25 KNOTS GUSTING TO 35 KNOTS AROUND SYSTEM CENTRE. THE STATE OF THE SEA IS ROUGH TO VERY ROUGH AROUND THE SYSTEM CENTRE. THE ESTIMATED CENTRAL PRESSURE IS ABOUT 1003 HPA.
THE BUOY OBSERVATIONS AROUND SYSTEM CENTRE SHOWS 20-25 KNOTS WIND IN THE NORTHERN SECTOR AND ABOUT 15 KNOTS IN THE SOUTHERN SECTOR. AT 0600 UTC OF 28TH OCTOBER 2012, BUOY (POSITION NEAR 8.1^{0}N AND 85.5^{0}E) REPORTED WIND OF 240/16 KNOTS WIND AND 1004.4 HPA AS MEAN SEA LEVEL PRESSURE (MSLP); BUOY (POSITION NEAR 11.0^{0}N AND 86.5^{0}E) REPORTED MSLP OF 1006.7 HPA AND WIND OF 110/18 KNOTS. THE 24 HR PRESSURE FALL IS ABOUT 1 HPA ALONG SRILANKA COAST.

REMARK:
CONSIDERING THE ENVIRONMENTAL FEATURES, THE SEA SURFACE TEMPERATURE IS ABOUT 29-30 DEG. C. OVER SOUTH BAY OF BENGAL. THE OCEAN THERMAL ENERGY IS 50 - 80 KJ/CM SQUARE AROUND THE SYSTEM CENTRE. IT IS LESS TOWARDS THE NORTH OF THE SYSTEM. THE MADDEN JULIAN OSCILLATION INDEX CURRENTLY LIES OVER PHASE 2. AS PER STATISTICAL AND NWP MODEL PREDICTIONS, IT IS EXPECTED TO LIE IN PHASE 2 DURING NEXT 3 DAYS. THE UPPER TROPOSPHERIC RIDGE LIES ALONG 13 DEG.N. THE LOW LEVEL CONVERGENCE AND RELATIVE VORTICITY HAVE INCREASED DURING PAST 24 HRS AS WELL AS UPPER LEVEL DIVERGENCE. THE VERTICAL WIND SHEAR BETWEEN 200 AND 850 HPA LEVELS IS MODERATE (10-20 KNOTS) AROUND SYSTEM CENTRE. HOWEVER, IT INCREASES TOWARDS NORTH TAMIL NADU AND ADJOINING SEA AREAS.

CONSIDERING THE NWP MODEL GUIDANCE, MOST OF THE MODELS SUGGEST THE INTENSIFICATION OF THE SYSTEM INTO A DEEP DEPRESSION AND SUBSEQUENTLY INTO A MARGINAL CYCLONIC STORM BY NEXT 48 HRS. DYNAMICAL- STATISTICAL MODEL OF IMD ALSO SUGGESTS THE SYSTEM TO INTENSIFY INTO A CYCLONIC STORM. WITH RESPECT TO TRACK, MOST MODELS SUGGEST WESTWARD/ WEST-SOUTHWESTWARD MOVEMENT DURING NEXT 48 HRS. HOWEVER, THERE IS DIVERGENCE IN NWP MODEL GUIDANCE THEREAFTER AS SOME MODELS SUGGEST NORTHWESTWARD MOVEMENT TOWARDS NORTH TAMIL NADU COAST AND SOME OTHER MODELS SUGGEST CONTINUOUS WESTWARD MOVEMENT TOWARDS NORTH SRI LANKA COAST.

(M MOHAPATRA)
SCIENTIST-E

TOO:282030 HRS IST

भारत मौसम विज्ञान विभाग
INDIA METEOROLOGICAL DEPARTMENT

SPECIAL TROPICAL WEATHER OUTLOOK

DEMS–RSMC TROPICAL CYCLONES NEW DELHI 29-10-2012

TROPICAL WEATHER OUTLOOK FOR NORTH INDIAN OCEAN (THE BAY OF BENGAL AND ARABIAN SEA) VALID FOR NEXT 24 HOURS ISSUED AT 0600 UTC OF 29 OCTOBER, 2011 BASED ON 0300 UTC OF 29 OCTOBER, 2012 (.)

THE DEPRESSION OVER SOUTHEAST AND ADJOINING SOUTHWEST BAY OF BENGAL MOVED WESTWARDS AND LAY CENTRED AT 1200 UTC OF TODAY, THE 28TH OCTOBER 2012 OVER SOUTHWEST BAY OF BENGAL NEAR LATITUDE 9.5^{0}N AND LONGITUDE 85.0^{0}E, ABOUT 650 KM SOUTHEAST OF CHENNAI (43279) AND 400 KM EAST-NORTHEAST OF TRINCOMALEE (43418). THE SYSTEM WOULD INTENSIFY INTO A DEEP DEPRESSION DURING NEXT 24 HRS AND SUBSEQUENTLY INTO A MARGINAL CYCLONIC STORM. THE SYSTEM WOULD MOVE WESTWARDS TOWARDS NORTH SRI LANKA AND TAMIL NADU COAST.

ACCORDING TO SATELLITE IMAGERIES, THE INTENSITY OF THE SYSTEM IS T 1.5. LOW/MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION SEEN OVER BAY OF BENGAL BETWEEN LAT 06.0^{0}N AND 13.0^{0}N AND WEST OF 88^{0}E AND SRI LANKA. THE ASSOCIATED CONVECTION HAS INCREASED GRADUALLY WITH RESPECT TO HEIGHT AND ORGANISATION DURING PAST 12 HRS. THE LOWEST CLOUD TOP TEMPERATURE (CTT) IS ABOUT -85^{0}C.

SUSTAINED MAXIMUM SURFACE WIND SPEED IS ESTIMATED TO BE ABOUT 25 KNOTS GUSTING TO 35 KNOTS AROUND SYSTEM CENTRE. THE STATE OF THE SEA IS ROUGH TO VERY ROUGH AROUND THE SYSTEM CENTRE. THE ESTIMATED CENTRAL PRESSURE IS ABOUT 1003 HPA.
THE BUOY OBSERVATIONS AROUND SYSTEM CENTRE SHOWS 20-25 KNOTS WIND IN THE NORTHERN SECTOR AND ABOUT 15 KNOTS IN THE SOUTHERN SECTOR. AT 0600 UTC OF 28TH OCTOBER 2012, BUOY (POSITION NEAR 8.1^{0}N AND 85.5^{0}E) REPORTED WIND OF 240/16 KNOTS WIND AND 1004.4 HPA AS MEAN SEA LEVEL PRESSURE (MSLP); BUOY (POSITION NEAR 11.0^{0}N AND 86.5^{0}E) REPORTED MSLP OF 1006.7 HPA AND WIND OF 110/18 KNOTS. THE 24 HR PRESSURE FALL IS ABOUT 1 HPA ALONG SRILANKA COAST.

REMARK:
CONSIDERING THE ENVIRONMENTAL FEATURES, THE SEA SURFACE TEMPERATURE IS ABOUT 29-30 DEG. C. OVER SOUTH BAY OF BENGAL. THE OCEAN THERMAL ENERGY IS 50 - 80 KJ/CM SQUARE AROUND THE SYSTEM CENTRE. IT IS LESS TOWARDS THE NORTH OF THE SYSTEM. THE MADDEN JULIAN OSCILLATION INDEX CURRENTLY LIES OVER PHASE 2. AS PER STATISTICAL AND NWP MODEL PREDICTIONS, IT IS EXPECTED TO LIE IN PHASE 2 DURING NEXT 3 DAYS. THE UPPER TROPOSPHERIC RIDGE LIES ALONG 13 DEG.N. THE LOW LEVEL CONVERGENCE AND RELATIVE VORTICITY HAVE INCREASED DURING PAST 24 HRS AS WELL AS UPPER LEVEL DIVERGENCE. THE VERTICAL WIND SHEAR BETWEEN 200 AND 850 HPA LEVELS IS MODERATE (10-20 KNOTS) AROUND SYSTEM CENTRE. HOWEVER, IT INCREASES TOWARDS NORTH TAMIL NADU AND ADJOINING SEA AREAS.

CONSIDERING THE NWP MODEL GUIDANCE, MOST OF THE MODELS SUGGEST THE INTENSIFICATION OF THE SYSTEM INTO A MARGINAL CYCLONIC STORM BY NEXT 24 HRS. DYNAMICAL- STATISTICAL MODEL OF IMD ALSO SUGGESTS THE SYSTEM TO INTENSIFY INTO A CYCLONIC STORM. WITH RESPECT TO TRACK, MOST MODELS SUGGEST WESTWARD/ WEST-SOUTHWESTWARD MOVEMENT DURING NEXT 12-24 HRS. HOWEVER, THERE IS DIVERGENCE IN NWP MODEL GUIDANCE THEREAFTER AS SOME MODELS SUGGEST NORTHWESTWARD MOVEMENT TOWARDS NORTH TAMIL NADU COAST AND SOME OTHER MODELS SUGGEST SYSTEM TO COME VERY CLOSE TO SRI LANKA COAST AND THEN MOVE NORTHWESTWARDS TOWARDS TAMIL NADU COAST.

(M MOHAPATRA)
SCIENTIST-E

TOO:291400 HRS IST

भारत मौसम विज्ञान विभाग
INDIA METEOROLOGICAL DEPARTMENT

SPECIAL TROPICAL WEATHER OUTLOOK

DEMS–RSMC TROPICAL CYCLONES NEW DELHI 29-10-2012

TROPICAL WEATHER OUTLOOK FOR NORTH INDIAN OCEAN (THE BAY OF BENGAL AND ARABIAN SEA) VALID FOR NEXT 24 HOURS ISSUED AT 0300 UTC OF 29 OCTOBER, 2011 BASED ON 0000 UTC OF 29 OCTOBER, 2012.

THE DEPRESSION OVER SOUTHWEST BAY OF BENGAL MOVED WESTWARDS, INTENSIFIED INTO A DEEP DEPRESSION AND LAY CENTRED AT 0000 UTC OF TODAY, THE 29TH OCTOBER 2012 OVER SOUTHWEST BAY OF BENGAL NEAR LATITUDE 9.5^{0}N AND LONGITUDE 84.0^{0}E, ABOUT 550 KM SOUTHEAST OF CHENNAI (43279) AND 300 KM EAST-NORTHEAST OF TRINCOMALEE (43418). THE SYSTEM WOULD INTENSIFY FURTHER INTO A CYCLONIC STORM AND MOVE WESTWARDS FOR SOME MORE TIME AND THEN MOVE NORTHWESTWARDS AND CROSS NORTH TAMIL NADU AND ADJOINING SOUTH ANDHRA PRADESH COAST BETWEEN NAGAPATTINAM AND NELLORE BY 31ST OCTOBER, 2012 EVENING/NIGHT.

BASED ON LATEST ANALYSIS WITH NWP MODELS AND OTHER CONVENTIONAL TECHNIQUES, ESTIMATED TRACK AND INTENSITY OF THE SYSTEM ARE GIVEN IN THE TABLE BELOW:

DATE/TIME(UTC)	POSITION (LAT. ^{0}N/ LONG. ^{0}E)	SUSTAINED MAXIMUM SURFACE WIND SPEED (KMPH)	CATEGORY
29-10-2012/0000	9.5/84.0	50-60 GUSTING TO 70	DEEP DEPRESSION
29-10-2012/0600	9.5/83.5	55-65 GUSTING TO 75	DEEP DEPRESSION
29-10-2012/1200	9.5/83.2	65-75 GUSTING TO 85	CYCLONIC STORM
29-10-2012/1800	9.5/82.9	70-80 GUSTING TO 90	CYCLONIC STORM
30-10-2012/0000	9.7/82.6	75-85 GUSTING TO 95	CYCLONIC STORM
30-10-2012/1200	10.0/82.0	80-90 GUSTING TO 100	CYCLONIC STORM
31-10-2012/0000	10.7/81.5	80-90 GUSTING TO 100	CYCLONIC STORM
31-10-2012/1200	12.3/80.5	80-90 GUSTING TO 100	CYCLONIC STORM
01-11-2012/0000	14.0/79.5	55-65 GUSTING TO 75	DEEP DEPRESSION
01-11-2012/1200	16.0/78.5	25-35 GUSTING TO 45	LOW

ACCORDING TO SATELLITE IMAGERIES, THE INTENSITY OF THE SYSTEM IS T 2.0. LOW/MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION SEEN OVER BAY OF BENGAL BETWEEN LAT 04.0^{0}N AND 13.5^{0}N AND WEST OF 88^{0}E AND SRI LANKA. THE ASSOCIATED CONVECTION HAS INCREASED GRADUALLY WITH RESPECT TO HEIGHT AND ORGANISATION DURING PAST 12 HRS. THE LOWEST CLOUD TOP TEMPERATURE (CTT) IS ABOUT -85^{0}C.
SUSTAINED MAXIMUM SURFACE WIND SPEED IS ESTIMATED TO BE ABOUT 30 KNOTS GUSTING TO 40 KNOTS AROUND SYSTEM CENTRE. THE STATE OF THE SEA IS VERY ROUGH TO HIGH AROUND THE SYSTEM CENTRE. THE ESTIMATED CENTRAL PRESSURE IS ABOUT 1000 HPA.

REMARK:
CONSIDERING THE ENVIRONMENTAL FEATURES, THE SEA SURFACE TEMPERATURE IS ABOUT 29-30 DEG. C. OVER SOUTH BAY OF BENGAL. THE OCEAN THERMAL ENERGY IS 50 - 80 KJ/CM SQUARE AROUND THE SYSTEM CENTRE. IT IS LESS TOWARDS THE NORTH OF THE SYSTEM. THE MADDEN JULIAN OSCILLATION INDEX CURRENTLY LIES OVER PHASE 2. AS PER STATISTICAL AND NWP MODEL PREDICTIONS, IT IS EXPECTED TO LIE IN PHASE 2 DURING NEXT 3 DAYS. THE UPPER TROPOSPHERIC RIDGE LIES ALONG 13 DEG.N. THE LOW LEVEL CONVERGENCE, UPPER LEVEL DIVERGENCE AND RELATIVE VORTICITY HAVE INCREASED DURING PAST 12 HRS. THE VERTICAL WIND SHEAR BETWEEN 200 AND 850 HPA LEVELS IS MODERATE (10-20 KNOTS) AROUND SYSTEM CENTRE. HOWEVER, IT INCREASES TOWARDS NORTH.
CONSIDERING THE NWP MODEL GUIDANCE, MOST OF THE MODELS SUGGEST THE INTENSIFICATION OF THE SYSTEM INTO A CYCLONIC STORM BY NEXT 24 HRS. DYNAMICAL- STATISTICAL MODEL OF IMD ALSO SUGGESTS THE SYSTEM TO INTENSIFY INTO A CYCLONIC STORM. WITH RESPECT TO TRACK, MOST MODELS SUGGEST WESTWARD/ WEST-SOUTHWESTWARD MOVEMENT DURING NEXT 24 HRS. HOWEVER, THERE IS DIVERGENCE IN NWP MODEL GUIDANCE THEREAFTER AS SOME MODELS SUGGEST NORTHWESTWARD MOVEMENT TOWARDS NORTH TAMIL NADU AND ADJOINING SOUTH ANDHRA PRADESH COAST AND SOME OTHER MODELS SUGGEST CONTINUOUS WESTWARD MOVEMENT TOWARDS NORTH SRI LANKA COAST.

(M MOHAPATRA)
SCIENTIST-E

TOO:291000

भारत मौसम विज्ञान विभाग
INDIA METEOROLOGICAL DEPARTMENT

SPECIAL TROPICAL WEATHER OUTLOOK

DEMS–RSMC TROPICAL CYCLONES NEW DELHI 29-10-2012

TROPICAL WEATHER OUTLOOK FOR NORTH INDIAN OCEAN (THE BAY OF BENGAL AND ARABIAN SEA) VALID FOR NEXT 24 HOURS ISSUED AT 0900 UTC OF 29 OCTOBER, 2012 BASED ON 0600 UTC OF 29 OCTOBER, 2012.

THE DEEP DEPRESSION OVER SOUTHWEST BAY OF BENGAL MOVED WEST-SOUTHWESTWARDS, AND LAY CENTRED AT 0600 UTC OF TODAY, THE 29TH OCTOBER 2012 OVER SOUTHWEST BAY OF BENGAL NEAR LATITUDE 9.0^{0}N AND LONGITUDE 83.0^{0}E, ABOUT 550 KM SOUTH-SOUTHEAST OF CHENNAI (43279) AND 200 KM EAST-NORTHEAST OF TRINCOMALEE (43418). THE SYSTEM WOULD INTENSIFY FURTHER INTO A CYCLONIC STORM AND MOVE WEST-SOUTHWESTWARDS FOR SOME MORE TIME AND THEN MOVE NORTHWESTWARDS AND CROSS NORTH TAMIL NADU AND ADJOINING SOUTH ANDHRA PRADESH COAST BETWEEN NAGAPATTINAM AND NELLORE BY 31ST OCTOBER, 2012 EVENING/NIGHT.

BASED ON LATEST ANALYSIS WITH NWP MODELS AND OTHER CONVENTIONAL TECHNIQUES, ESTIMATED TRACK AND INTENSITY OF THE SYSTEM ARE GIVEN IN THE TABLE BELOW:

DATE/TIME(UTC)	POSITION (LAT. ^{0}N/ LONG. ^{0}E)	SUSTAINED MAXIMUM SURFACE WIND SPEED (KMPH)	CATEGORY
29-10-2012/0600	9.0/83.0	55-65 GUSTING TO 75	DEEP DEPRESSION
29-10-2012/1200	8.8/82.5	65-75 GUSTING TO 85	CYCLONIC STORM
29-10-2012/1800	8.5/82.3	70-80 GUSTING TO 90	CYCLONIC STORM
30-10-2012/0000	9.0/82.0	75-85 GUSTING TO 95	CYCLONIC STORM
30-10-2012/0600	9.5/81.7	75-85 GUSTING TO 95	CYCLONIC STORM
30-10-2012/1800	10.5/81.2	80-90 GUSTING TO 100	CYCLONIC STORM
31-10-2012/0600	12.0/80.5	80-90 GUSTING TO 100	CYCLONIC STORM
31-10-2012/1800	13.5/79.5	55-65 GUSTING TO 75	DEEP DEPRESSION
01-11-2012/0600	15.0/78.5	25-35 GUSTING TO 45	LOW

ACCORDING TO SATELLITE IMAGERIES, THE INTENSITY OF THE SYSTEM IS T 2.0. LOW/MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION SEEN OVER BAY OF BENGAL BETWEEN LAT 04.0^{0}N AND 13.5^{0}N AND WEST OF 88^{0}E AND SRI LANKA. THE ASSOCIATED CONVECTION HAS REMAINED SAME WITH RESPECT TO HEIGHT AND ORGANISATION DURING PAST 06 HRS. THE LOWEST CLOUD TOP TEMPERATURE (CTT) IS ABOUT -85^{0}C.

SUSTAINED MAXIMUM SURFACE WIND SPEED IS ESTIMATED TO BE ABOUT 30 KNOTS GUSTING TO 40 KNOTS AROUND SYSTEM CENTRE. THE STATE OF THE SEA IS VERY ROUGH TO HIGH AROUND THE SYSTEM CENTRE. THE ESTIMATED CENTRAL PRESSURE IS ABOUT 1000 HPA.

REMARK:

CONSIDERING THE ENVIRONMENTAL FEATURES, THE SEA SURFACE TEMPERATURE IS ABOUT 29-30 DEG. C. OVER SOUTH BAY OF BENGAL. THE OCEAN THERMAL ENERGY IS 50 - 80 KJ/CM SQUARE AROUND THE SYSTEM CENTRE. IT IS LESS TOWARDS THE NORTH OF THE SYSTEM. THE MADDEN JULIAN OSCILLATION INDEX CURRENTLY LIES OVER PHASE 2. AS PER STATISTICAL AND NWP MODEL PREDICTIONS, IT IS EXPECTED TO LIE IN PHASE 2 DURING NEXT 3 DAYS. THE UPPER TROPOSPHERIC RIDGE LIES ALONG 13 DEG.N. THE LOW LEVEL CONVERGENCE, UPPER LEVEL DIVERGENCE AND RELATIVE VORTICITY HAS REMAINED SAME DURING PAST 06 HRS. THE VERTICAL WIND SHEAR BETWEEN 200 AND 850 HPA LEVELS IS MODERATE (10-20 KNOTS) AROUND SYSTEM CENTRE. HOWEVER, IT INCREASES TOWARDS NORTH.MIDDLE AND UPPER TROPOSPHERIC STEERING WINDS SUGGEST WEST-SOUTHWESTWARD MOVEMENT INITIALLY AND THEREAFTER NORTHWESTWARD MOVEMENT.

CONSIDERING THE NWP MODEL GUIDANCE, MOST OF THE MODELS SUGGEST THE INTENSIFICATION OF THE SYSTEM INTO A CYCLONIC STORM BY NEXT 24 HRS. DYNAMICAL- STATISTICAL MODEL OF IMD ALSO SUGGESTS THE SYSTEM TO INTENSIFY INTO A CYCLONIC STORM. WITH RESPECT TO TRACK, MOST MODELS SUGGEST WESTWARD/ WEST-SOUTHWESTWARD MOVEMENT DURING NEXT 24 HRS. HOWEVER, THERE IS DIFFERENCE IN NWP MODEL GUIDANCE THEREAFTER AS SOME MODELS SUGGEST NORTH-NORTHWESTWARD MOVEMENT TOWARDS NORTH TAMIL NADU AND ADJOINING SOUTH ANDHRA PRADESH COAST AND LANDFALL NEAR CHENNAI.FEW MODELS ALSO SUGGEST SIMILAR TRACK BUT LANDFALL NEAR TO NORTH OF NAGAPATTINAM.

(KAMALJIT RAY)
SCIENTIST-E

TOO:291400

भारत मौसम विज्ञान विभाग
INDIA METEOROLOGICAL DEPARTMENT

SPECIAL TROPICAL WEATHER OUTLOOK

DEMS–RSMC TROPICAL CYCLONES NEW DELHI 29-10-2012

TROPICAL WEATHER OUTLOOK FOR NORTH INDIAN OCEAN (THE BAY OF BENGAL AND ARABIAN SEA) VALID FOR NEXT 24 HOURS ISSUED AT 1500 UTC OF 29 OCTOBER, 2012 BASED ON 1200 UTC OF 29 OCTOBER, 2012.

THE DEEP DEPRESSION OVER SOUTHWEST BAY OF BENGAL MOVED WESTWARDS, AND LAY CENTRED AT 1200 UTC OF TODAY, THE 29TH OCTOBER 2012 OVER SOUTHWEST BAY OF BENGAL NEAR LATITUDE 9.0^{0}N AND LONGITUDE 82.5^{0}E, ABOUT 500 KM SOUTH-SOUTHEAST OF CHENNAI (43279) AND 130 KM EAST-NORTHEAST OF TRINCOMALEE (43418). THE SYSTEM WOULD INTENSIFY FURTHER INTO A CYCLONIC STORM AND MOVE WESTWARDS FOR SOME MORE TIME AND COME VERY CLOSE TO SRI LANKA COAST AND THEN MOVE NORTHWESTWARDS AND CROSS NORTH TAMIL NADU AND ADJOINING SOUTH ANDHRA PRADESH COAST BETWEEN NAGAPATTINAM AND NELLORE AROUND 1200 UTC OF 31ST OCTOBER, 2012.
BASED ON LATEST ANALYSIS WITH NWP MODELS AND OTHER CONVENTIONAL TECHNIQUES, ESTIMATED TRACK AND INTENSITY OF THE SYSTEM ARE GIVEN IN THE TABLE BELOW:

DATE/TIME(UTC)	POSITION (LAT. ^{0}N/ LONG. ^{0}E)	SUSTAINED MAXIMUM SURFACE WIND SPEED (KMPH)	CATEGORY
29-10-2012/1200	9.0/82.5	55-65 GUSTING TO 75	DEEP DEPRESSION
29-10-2012/1800	9.0/82.0	65-75 GUSTING TO 85	CYCLONIC STORM
30-10-2012/0000	9.0/8**1**.5	70-80 GUSTING TO 90	CYCLONIC STORM
30-10-2012/0600	9.5/81.3	75-85 GUSTING TO 95	CYCLONIC STORM
30-10-2012/1200	10.0/81.0	80-90 GUSTING TO 100	CYCLONIC STORM
31-10-2012/0000	11.0/80.5	80-90 GUSTING TO 100	CYCLONIC STORM
31-10-2012/1200	12.5/80.0	80-90 GUSTING TO 100	CYCLONIC STORM
01-10-2012/0000	13.5/79.0	50-60 GUSTING TO 70	DEEP[DEPRESSION
01-11-2012/1200	15.0/78.0	25-35 GUSTING TO 45	LOW

ACCORDING TO SATELLITE IMAGERIES, THE INTENSITY OF THE SYSTEM IS T 2.0. LOW/MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION SEEN OVER BAY OF BENGAL BETWEEN LAT 05.0^{0}N AND 13.5^{0}N AND WEST OF 87^{0}E, SRI LANKA, COASTAL TAMIL NADU AND PUDUCHERRY. THE ASSOCIATED CONVECTION HAS REMAINED SAME WITH RESPECT TO HEIGHT AND ORGANISATION DURING PAST 06 HRS. THE LOWEST CLOUD TOP TEMPERATURE (CTT) IS ABOUT -85^{0}C.
SUSTAINED MAXIMUM SURFACE WIND SPEED IS ESTIMATED TO BE ABOUT 30 KNOTS GUSTING TO 40 KNOTS AROUND SYSTEM CENTRE. THE STATE OF THE SEA IS VERY ROUGH TO HIGH AROUND THE SYSTEM CENTRE. THE ESTIMATED CENTRAL PRESSURE IS ABOUT 1000 HPA.

REMARK:
CONSIDERING THE ENVIRONMENTAL FEATURES, THE SEA SURFACE TEMPERATURE IS ABOUT 29-30 DEG. C. OVER SOUTH BAY OF BENGAL. THE OCEAN THERMAL ENERGY IS 50 - 80 KJ/CM SQUARE AROUND THE SYSTEM CENTRE. IT IS LESS TOWARDS THE NORTH OF THE SYSTEM. THE MADDEN JULIAN OSCILLATION INDEX CURRENTLY LIES OVER PHASE 2. AS PER STATISTICAL AND NWP MODEL PREDICTIONS, IT IS EXPECTED TO LIE IN PHASE 2 DURING NEXT 3 DAYS. THE UPPER TROPOSPHERIC RIDGE LIES ALONG 13 DEG.N. THE LOW LEVEL CONVERGENCE, UPPER LEVEL DIVERGENCE AND RELATIVE VORTICITY HAS SLIGHTLY INCREASED DURING PAST 06 HRS HOWEVER THE VERTICAL WIND SHEAR BETWEEN 200 AND 850 HPA LEVELS HAS INCREASED AND IS MODERATE TO HIGH (15-30 KNOTS) AROUND SYSTEM CENTRE.
CONSIDERING THE NWP MODEL GUIDANCE, MOST OF THE MODELS SUGGEST THE INTENSIFICATION OF THE SYSTEM INTO A CYCLONIC STORM BY NEXT 12 HRS. DYNAMICAL- STATISTICAL MODEL OF IMD ALSO SUGGESTS THE SYSTEM TO INTENSIFY INTO A CYCLONIC STORM. WITH RESPECT TO TRACK, MOST MODELS SUGGEST WESTWARD MOVEMENT DURING NEXT 12 HRS. HOWEVER, THERE IS DIFFERENCE IN NWP MODEL GUIDANCE THEREAFTER AS SOME MODELS SUGGEST NORTH-NORTHWESTWARD MOVEMENT TOWARDS NORTH TAMIL NADU AND ADJOINING SOUTH ANDHRA PRADESH COAST AND LANDFALL NEAR CHENNAI.A FEW MODELS ALSO SUGGEST SIMILAR TRACK BUT LANDFALL NEAR TO NORTH OF NAGAPATTINAM.

(KAMALJIT RAY)
SCIENTIST-E

TOO:291930

भारत मौसम विज्ञान विभाग
INDIA METEOROLOGICAL DEPARTMENT

SPECIAL TROPICAL WEATHER OUTLOOK

DEMS–RSMC TROPICAL CYCLONES NEW DELHI 30-10-2012

TROPICAL WEATHER OUTLOOK FOR NORTH INDIAN OCEAN (THE BAY OF BENGAL AND ARABIAN SEA) VALID FOR NEXT 24 HOURS ISSUED AT 0300 UTC OF 30 OCTOBER, 2012 BASED ON 0000 UTC OF 30 OCTOBER, 2012.

THE DEEP DEPRESSION OVER SOUTHWEST BAY OF BENGAL REMAINED PRACTICALLY STATIONARY AND LAY CENTRED AT 0000 UTC OF TODAY, THE 30TH OCTOBER 2012 OVER SOUTHWEST BAY OF BENGAL NEAR LATITUDE 9.0^{0}N AND LONGITUDE 82.0^{0}E, ABOUT 500 KM SOUTH-SOUTHEAST OF CHENNAI AND 100 KM EAST-NORTHEAST OF TRINCOMALEE (SRI LANKA). THE SYSTEM WOULD INTENSIFY FURTHER INTO A CYCLONIC STORM AND MOVE NORTHWESTWARDS FOR SOME MORE TIME AND THEN MOVE NORTHWESTWARDS AND CROSS NORTH TAMIL NADU AND ADJOINING SOUTH ANDHRA PRADESH COAST BETWEEN NAGAPATTINAM AND NELLORE BY 31ST OCTOBER, 2012 AFTERNOON/EVENING.

BASED ON LATEST ANALYSIS WITH NWP MODELS AND OTHER CONVENTIONAL TECHNIQUES, ESTIMATED TRACK AND INTENSITY OF THE SYSTEM ARE GIVEN IN THE TABLE BELOW:

DATE/TIME(IST)	POSITION (LAT. ^{0}N/ LONG. ^{0}E)	SUSTAINED MAXIMUM SURFACE WIND SPEED (KMPH)	CATEGORY
30-10-2012/0530	9.0/82.0	55-65 GUSTING TO 75	DEEP DEPRESSION
30-10-2012/1130	9.2/81.8	65-75 GUSTING TO 85	CYCLONIC STORM
30-10-2012/1730	9.5/81.5	70-80 GUSTING TO 90	CYCLONIC STORM
30-10-2012/2330	10.0/81.2	75-85 GUSTING TO 95	CYCLONIC STORM
31-10-2012/0530	10.5/80.9	80-90 GUSTING TO 100	CYCLONIC STORM
31-10-2012/1730	11.5/80.4	80-90 GUSTING TO 100	CYCLONIC STORM
01-11-2012/0530	12.5/79.8	80-90 GUSTING TO 100	CYCLONIC STORM
01-11-2012/1730	13.5/79.0	50-60 GUSTING TO 70	DEEP DEPRESSION
02-11-2012/0530	15.0/78.0	25-35 GUSTING TO 45	LOW

ACCORDING TO SATELLITE IMAGERIES, VORTEX OVER SOUTHWEST BAY ADJOINING SRILANKA CENTERED NEAR 8.7ºN/82.0ºE. INTENSITY T2.0 RPT T2.0. ASSOCIATED BROKEN TO INTENSE TO VERY INTENSE CONVECTION OVER SRILANKA GULF OF MANNAR COMORIN PALK STRAIT TAMILNADU ADJOINING RAYALASEEMA SOUTHWEST ADJOINING WESTCENTRAL BAY OF BENGAL BETWEEN LAT 5.0ºN TO 14.5ºN WEST OF LONG 86.5ºE. LOW/MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION SEEN OVER BAY OF BENGAL BETWEEN LAT 05.0^{0}N AND 13.5^{0}N AND WEST OF 87^{0}E, SRI LANKA, COASTAL TAMIL NADU AND PUDUCHERRY. THE ASSOCIATED CONVECTION HAS REMAINED SAME WITH RESPECT TO HEIGHT AND ORGANISATION DURING PAST 06 HRS. THE LOWEST CLOUD TOP TEMPERATURE (CTT) IS ABOUT -85^{0}C.

SUSTAINED MAXIMUM SURFACE WIND SPEED IS ESTIMATED TO BE ABOUT 30 KNOTS GUSTING TO 40 KNOTS AROUND SYSTEM CENTRE. THE STATE OF THE SEA IS VERY ROUGH TO HIGH AROUND THE SYSTEM CENTRE. THE ESTIMATED CENTRAL PRESSURE IS ABOUT 1000 HPA.

REMARK:

CONSIDERING THE ENVIRONMENTAL FEATURES, THE SEA SURFACE TEMPERATURE IS ABOUT 29-30º C. OVER SOUTH BAY OF BENGAL. THE OCEAN THERMAL ENERGY IS 50 - 80 KJ/CM SQUARE AROUND THE SYSTEM CENTRE. THE MADDEN JULIAN OSCILLATION INDEX CURRENTLY LIES OVER PHASE 2. AS PER STATISTICAL AND NWP MODEL PREDICTIONS, IT IS EXPECTED TO LIE IN PHASE 2 DURING NEXT 3 DAYS. THE UPPER TROPOSPHERIC RIDGE LIES ALONG 14ºN. THE LOW LEVEL CONVERGENCE, UPPER LEVEL DIVERGENCE AND RELATIVE VORTICITY HAS INCREASED DURING PAST 06 HRS AND THE VERTICAL WIND SHEAR HAS DECREASED BETWEEN 200 AND 850 HPA LEVELS AND IS MODERATE (10-20 KNOTS) AROUND SYSTEM CENTRE. 24 HOURS WIND SHEAR TENDENCY SHOWS DECREASING TREND OF THE ORDER OF 10 KNOTS OVER WEST CENTRAL BAY OF BENGAL OFF TAMIL NADU AND ANDHRA PRADESH COAST. ESTIMATED CENTRAL PRESSURE(ECP) IS 999 HPA AND 24 HOURS PRESSURE FALL IS OBSERVED MAXIMU M OVER CHENNAI -1.9 HPA.

CONSIDERING THE NWP MODEL GUIDANCE, MOST OF THE MODELS SUGGEST THE INTENSIFICATION OF THE SYSTEM INTO A CYCLONIC STORM BY NEXT 12 HRS. DYNAMICAL- STATISTICAL MODEL OF IMD ALSO SUGGESTS THE SYSTEM TO INTENSIFY INTO A CYCLONIC STORM. WITH RESPECT TO TRACK, MOST MODELS SUGGEST WEST-NORTHWESTWARD MOVEMENT DURING NEXT 12 HRS. HOWEVER, THERE IS DIFFERENCE IN NWP MODEL GUIDANCE THEREAFTER AS SOME MODELS SUGGEST NORTH-NORTHWESTWARD MOVEMENT TOWARDS NORTH TAMIL NADU AND ADJOINING SOUTH ANDHRA PRADESH COAST AND LANDFALL NEAR CHENNAI. A FEW MODELS ALSO SUGGEST SIMILAR TRACK BUT LANDFALL NEAR TO NORTH OF NAGAPATTINAM.

(T. N. JHA)
SCIENTIST-E

TOO:300930

भारत मौसम विज्ञान विभाग
INDIA METEOROLOGICAL DEPARTMENT

SPECIAL TROPICAL WEATHER OUTLOOK

DEMS–RSMC TROPICAL CYCLONES NEW DELHI 30-10-2012

TROPICAL WEATHER OUTLOOK FOR NORTH INDIAN OCEAN (THE BAY OF BENGAL AND ARABIAN SEA) VALID FOR NEXT 24 HOURS ISSUED AT 0600 UTC OF 30 OCTOBER, 2012 BASED ON 0300 UTC OF 30 OCTOBER, 2012.

THE DEEP DEPRESSION OVER SOUTHWEST BAY OF BENGAL REMAINED PRACTICALLY STATIONARY AND INTENSIFIED INTO A CYCLONIC STORM, NILAM AND LAY CENTRED AT 0300 UTC OF TODAY, THE 30TH OCTOBER 2012 OVER SOUTHWEST BAY OF BENGAL NEAR LATITUDE 9.0^{0}N AND LONGITUDE 82.0^{0}E, ABOUT 500 KM SOUTH-SOUTHEAST OF CHENNAI(43279) AND 100 KM EAST-NORTHEAST OF TRINCOMALEE (43418). THE SYSTEM WOULD MOVE NORTHWESTWARDS AND CROSS NORTH TAMIL NADU AND ADJOINING SOUTH ANDHRA PRADESH COAST BETWEEN NAGAPATTINAM AND NELLORE BY 31ST OCTOBER, 2012 EVENING.
BASED ON LATEST ANALYSIS WITH NWP MODELS AND OTHER CONVENTIONAL TECHNIQUES, ESTIMATED TRACK AND INTENSITY OF THE SYSTEM ARE GIVEN IN THE TABLE BELOW:

DATE/TIME(UTC)	POSITION (LAT. ^{0}N/ LONG. ^{0}E)	SUSTAINED MAXIMUM SURFACE WIND SPEED (KMPH)	CATEGORY
30-10-2012/0000	9.0/82.0	55-65 GUSTING TO 75	DEEP DEPRESSION
30-10-2012/0600	9.2/81.8	65-75 GUSTING TO 85	CYCLONIC STORM
30-10-2012/1200	9.5/81.5	70-80 GUSTING TO 90	CYCLONIC STORM
30-10-2012/1800	10.0/81.2	75-85 GUSTING TO 95	CYCLONIC STORM
31-10-2012/0000	10.7/80.9	80-90 GUSTING TO 100	CYCLONIC STORM
31-10-2012/1200	12.0/80.4	80-90 GUSTING TO 100	CYCLONIC STORM
01-11-2012/0000	13.3/79.8	80-90 GUSTING TO 100	CYCLONIC STORM
01-11-2012/1200	15.0/79.0	50-60 GUSTING TO 70	DEPRESSION
02-11-2012/0000	16.5/78.0	25-35 GUSTING TO 45	LOW

ACCORDING TO SATELLITE IMAGERIES, VORTEX OVER SW BAY ADJ SRILANKA CENTERED NEAR 9.0N/82.0E (.) INTENSITY T2.5 RPT T2.5 ASSTD BROKEN INTENSE TO VERY INTENSE CONVECTION OVER SRILANKA GULF OF MANNAR COMORIN PALK STR TAMIL NADU ADJ RAYLESEEMA SW ADJ WC BAY BET LAT 5.0N TO 14.5N WEST OF LONG 85.0E (.)THE ASSOCIATED CONVECTION HAS REMAINED SAME WITH RESPECT TO HEIGHT AND ORGANISATION DURING PAST 06 HRS. THE LOWEST CLOUD TOP TEMPERATURE (CTT) IS ABOUT -85^{0}C.
SUSTAINED MAXIMUM SURFACE WIND SPEED IS ESTIMATED TO BE ABOUT 35 KNOTS GUSTING TO 45 KNOTS AROUND SYSTEM CENTRE. THE STATE OF THE SEA IS HIGH AROUND THE SYSTEM CENTRE. THE ESTIMATED CENTRAL PRESSURE IS ABOUT 998 HPA.

REMARK:
CONSIDERING THE ENVIRONMENTAL FEATURES, THE SEA SURFACE TEMPERATURE IS ABOUT 29-30º C. OVER SOUTH BAY OF BENGAL. THE OCEAN THERMAL ENERGY IS > 80 KJ/CM SQUARE AROUND THE SYSTEM CENTRE. THE MADDEN JULIAN OSCILLATION INDEX CURRENTLY LIES OVER PHASE 2. AS PER STATISTICAL AND NWP MODEL PREDICTIONS, IT IS EXPECTED TO LIE IN PHASE 2 DURING NEXT 3 DAYS.AN ANTICYCLONIC CIRCULATION LIES OVER CENTRAL BAY OF BENGAL (NORTHEAST SECTOR OF CYCLONE). THE UPPER TROPOSPHERIC RIDGE LIES ALONG 13ºN. THE LOW LEVEL CONVERGENCE, UPPER LEVEL DIVERGENCE AND RELATIVE VORTICITY HAS INCREASED DURING PAST 06 HRS AND THE VERTICAL WIND SHEAR HAS DECREASED BETWEEN 200 AND 850 HPA LEVELS AND IS LOW (5-10 KNOTS) AROUND SYSTEM CENTRE. 24 HOURS WIND SHEAR TENDENCY SHOWS DECREASING TREND OF THE ORDER OF 10 KNOTS OVER WEST CENTRAL BAY OF BENGAL OFF TAMIL NADU AND ANDHRA PRADESH COAST.

MOST MODELS SUGGEST NORTHWESTWARD MOVEMENT TOWARDS NORTH TAMIL NADU AND LANDFALL NEAR CHENNAI.

(KAMALJIT RAY)
SCIENTIST-E

TOO:301130

भारत मौसम विज्ञान विभाग
INDIA METEOROLOGICAL DEPARTMENT

SPECIAL TROPICAL WEATHER OUTLOOK

DEMS–RSMC TROPICAL CYCLONES NEW DELHI 30-10-2012

TROPICAL WEATHER OUTLOOK FOR NORTH INDIAN OCEAN (THE BAY OF BENGAL AND ARABIAN SEA) VALID FOR NEXT 24 HOURS ISSUED AT 0900 UTC OF 30 OCTOBER, 2012 BASED ON 0600 UTC OF 30 OCTOBER, 2012.

THE CYCLONIC STORM '**NILAM**', REMAINED PRACTICALLY STATIONARY AND LAY CENTRED AT 0600 UTC OF TODAY, THE 30TH OCTOBER 2012 NEAR LATITUDE 9.0^{0}N AND LONGITUDE 82.0^{0}E, ABOUT 500 KM SOUTH-SOUTHEAST OF CHENNAI AND 100 KM EAST-NORTHEAST OF TRINCOMALEE (SRI LANKA). THE SYSTEM WOULD MOVE NORTHWESTWARDS AND CROSS NORTH TAMIL NADU & ADJOINING SOUTH ANDHRA PRADESH COAST BETWEEN CUDDALORE AND NELLORE NEAR CHENNAI BY 31ST OCTOBER, 2012 EVENING.

BASED ON LATEST ANALYSIS WITH NWP MODELS AND OTHER CONVENTIONAL TECHNIQUES, ESTIMATED TRACK AND INTENSITY OF THE SYSTEM ARE GIVEN IN THE TABLE BELOW:

DATE/TIME(UTC)	POSITION (LAT. ^{0}N/ LONG. ^{0}E)	SUSTAINED MAXIMUM SURFACE WIND SPEED (KMPH)	CATEGORY
30-10-2012/0600	9.0/82.0	65-75 GUSTING TO 85	CYCLONIC STORM
30-10-2012/1200	9.5/81.5	70-80 GUSTING TO 90	CYCLONIC STORM
30-10-2012/1800	10.0/81.2	75-85 GUSTING TO 95	CYCLONIC STORM
31-10-2012/0000	10.7/80.9	80-90 GUSTING TO 100	CYCLONIC STORM
31-10-2012/0600	11.5/80.6	80-90 GUSTING TO 100	CYCLONIC STORM
31-10-2012/1800	12.8/80.0	80-90 GUSTING TO 100	CYCLONIC STORM
01-11-2012/0600	14.2/79.0	50-60 GUSTING TO 70	DEPRESSION
01-11-2012/1800	16.0/78.0	25-35 GUSTING TO 45	LOW

ACCORDING TO SATELLITE IMAGERIES, VORTEX OVER SW BAY ADJ SRILANKA CENTERED NEAR LAT 9.0 DEG N/82.0 DEG E. INTENSITY OF THE SYSTEM IS T2.5. INTENSE TO VERY INTENSE CONVECTIVE CLOUDS ARE OBSERVED AT MANY PLACES OVER SRILANKA, GULF OF MANNAR, COMORIN, PALK STRAIT , TAMILNADU, ADJOINING RAYALSEEMA, SOUTH WEST ADJOINING WEST CENTRAL BAY OF BENGAL BETWEEN LAT 5.0 DEGREE N TO 15.0 DEGREE N WEST OF LONG 84.5 DEGREE E. WIND SHEAR OF THE AREA IS BETWEEN 10 TO 20 KNOTS. THE LOWEST CLOUD TOP TEMPERATURE (CTT) IS ABOUT -85^{0}C.SUSTAINED MAXIMUM SURFACE WIND SPEED IS ESTIMATED TO BE ABOUT 35 KNOTS GUSTING TO 45 KNOTS AROUND SYSTEM CENTRE. THE STATE OF THE SEA IS HIGH AROUND THE SYSTEM CENTRE. THE ESTIMATED CENTRAL PRESSURE IS ABOUT 998 HPA.

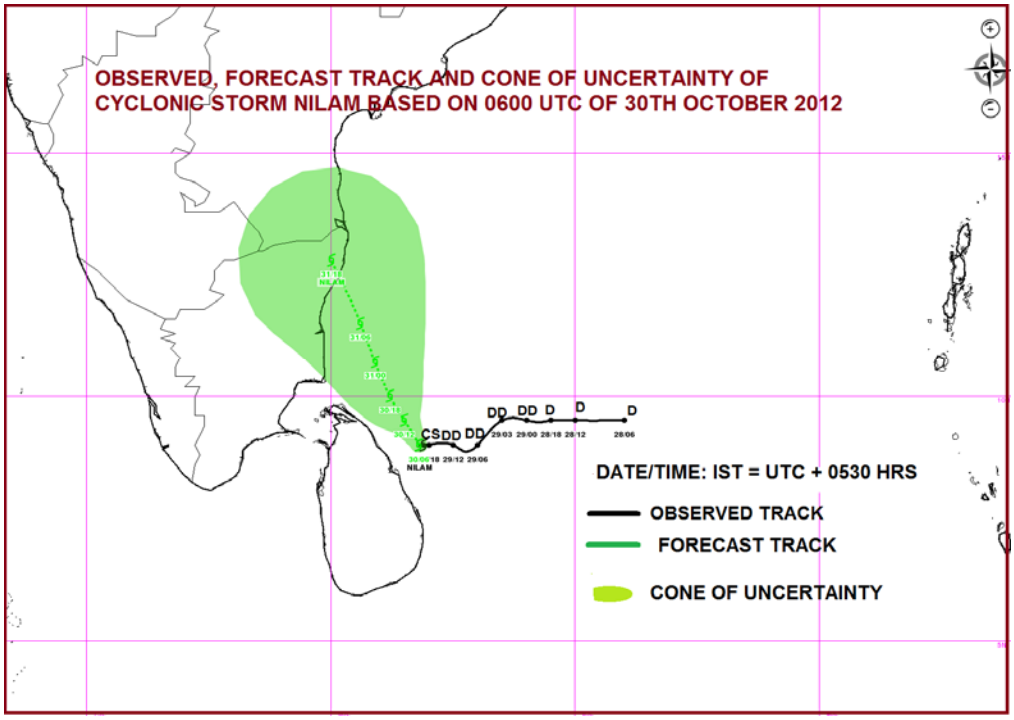
REMARK:

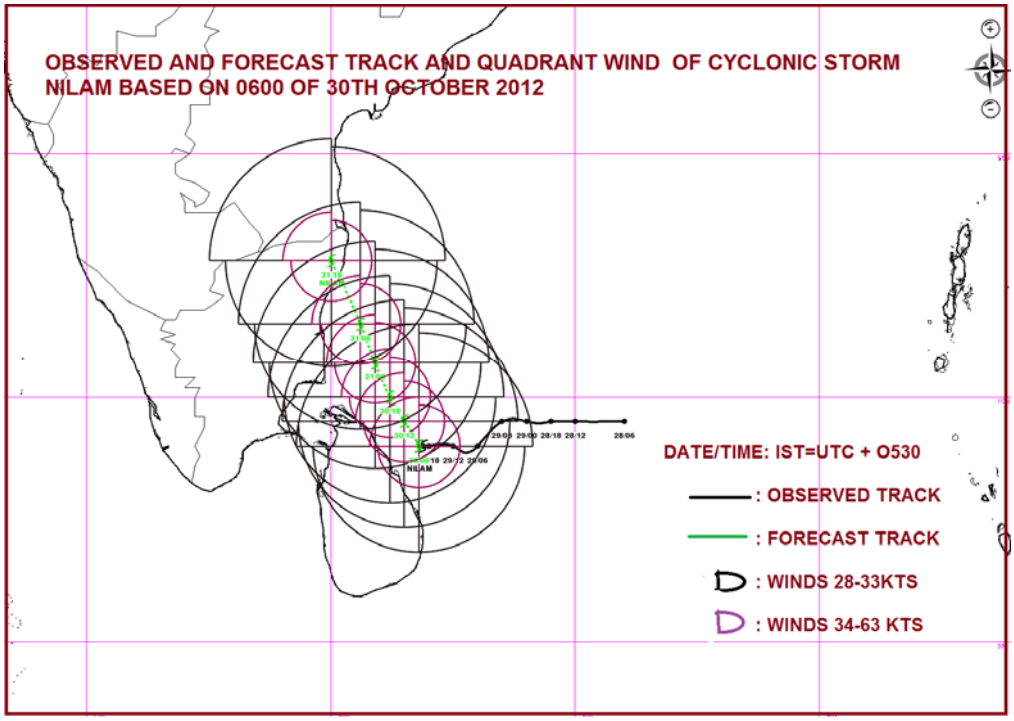
CONSIDERING THE ENVIRONMENTAL FEATURES, THE SEA SURFACE TEMPERATURE IS ABOUT 29-30º C. OVER SOUTH BAY OF BENGAL. THE OCEAN THERMAL ENERGY IS > 80 KJ/CM SQUARE AROUND THE SYSTEM CENTRE. THE MADDEN JULIAN OSCILLATION INDEX CURRENTLY LIES OVER PHASE 2. AS PER STATISTICAL AND NWP MODEL PREDICTIONS, IT IS EXPECTED TO LIE IN PHASE 2 DURING NEXT 3 DAYS.AN ANTICYCLONIC CIRCULATION LIES OVER CENTRAL BAY OF BENGAL (NORTHEAST SECTOR OF CYCLONE). THE UPPER TROPOSPHERIC RIDGE LIES ALONG 13ºN. THE LOW LEVEL CONVERGENCE, UPPER LEVEL DIVERGENCE AND RELATIVE VORTICITY HAS INCREASED DURING PAST 06 HRS AND THE VERTICAL WIND SHEAR HAS DECREASED BETWEEN 200 AND 850 HPA LEVELS AND IS LOW (5-10 KNOTS) AROUND SYSTEM CENTRE. 24 HOURS WIND SHEAR TENDENCY SHOWS DECREASING TREND OF THE ORDER OF 10 KNOTS OVER WEST CENTRAL BAY OF BENGAL OFF TAMIL NADU AND ANDHRA PRADESH COAST.

MOST MODELS SUGGEST NORTHWESTWARD MOVEMENT TOWARDS NORTH TAMIL NADU AND LANDFALL NEAR CHENNAI.

(KAMALJIT RAY)
SCIENTIST-E

TOO:301530


OBSERVED, FORECAST TRACK AND CONE OF UNCERTAINTY OF
CYCLONIC STORM NILAM BASED ON 0600 UTC OF 30TH OCTOBER 2012
DD DD D D D
CS DD DD
NILAM
DATE/TIME: IST = UTC + 0530 HRS
OBSERVED TRACK
FORECAST TRACK
CONE OF UNCERTAINTY


OBSERVED AND FORECAST TRACK AND QUADRANT WIND OF CYCLONIC STORM
NILAM BASED ON 0600 OF 30TH OCTOBER 2012
NILAM
DATE/TIME: IST=UTC + O530
: OBSERVED TRACK
: FORECAST TRACK
: WINDS 28-33KTS
: WINDS 34-63 KTS

भारत मौसम विज्ञान विभाग
INDIA METEOROLOGICAL DEPARTMENT

FROM: RSMC –TROPICAL CYCLONES, NEW DELHI
TO: STORM WARNING CENTRE, DHAKA (BANGLADESH)
STORM WARNING CENTRE, YANGAON (MYANMAR)
STORM WARNING CENTRE, BANGKOK (THAILAND)
STORM WARNING CENTRE, COLOMBO (SRILANKA)
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 **'NILAM'** ADVISORY NO THREE ISSUED AT 0900 UTC OF 30TH OCTOBER 2012 BASED ON 0600 UTC CHARTS OF 30TH OCTOBER 2012.
THE CYCLONIC STORM '**NILAM**', REMAINED PRACTICALLY STATIONARY AND LAY CENTRED AT 0600 UTC OF TODAY, THE 30TH OCTOBER 2012 NEAR LATITUDE 9.0^{0}N AND LONGITUDE 82.0^{0}E, ABOUT 500 KM SOUTH-SOUTHEAST OF CHENNAI AND 100 KM EAST-NORTHEAST OF TRINCOMALEE (SRI LANKA). THE SYSTEM WOULD MOVE NORTHWESTWARDS AND CROSS NORTH TAMIL NADU & ADJOINING SOUTH ANDHRA PRADESH COAST BETWEEN CUDDALORE AND NELLORE NEAR CHENNAI BY 31ST OCTOBER, 2012 EVENING.
BASED ON LATEST ANALYSIS WITH NWP MODELS AND OTHER CONVENTIONAL TECHNIQUES, ESTIMATED TRACK AND INTENSITY OF THE SYSTEM ARE GIVEN IN THE TABLE BELOW:

DATE/TIME(UTC)	POSITION (LAT. ^{0}N/ LONG. ^{0}E)	SUSTAINED MAXIMUM SURFACE WIND SPEED (KMPH)	CATEGORY
30-10-2012/0600	9.0/82.0	65-75 GUSTING TO 85	CYCLONIC STORM
30-10-2012/1200	9.5/81.5	70-80 GUSTING TO 90	CYCLONIC STORM
30-10-2012/1800	10.0/81.2	75-85 GUSTING TO 95	CYCLONIC STORM
31-10-2012/0000	10.7/80.9	80-90 GUSTING TO 100	CYCLONIC STORM
31-10-2012/0600	11.5/80.6	80-90 GUSTING TO 100	CYCLONIC STORM
31-10-2012/1800	12.8/80.0	80-90 GUSTING TO 100	CYCLONIC STORM
01-11-2012/0600	14.2/79.0	50-60 GUSTING TO 70	DEPRESSION
01-11-2012/1800	16.0/78.0	25-35 GUSTING TO 45	LOW

ACCORDING TO SATELLITE IMAGERIES, VORTEX OVER SW BAY ADJ SRILANKA CENTERED NEAR LAT 9.0 DEG N/82.0 DEG E. INTENSITY OF THE SYSTEM IS T2.5. INTENSE TO VERY INTENSE CONVECTIVE CLOUDS ARE OBSERVED AT MANY PLACES OVER SRILANKA, GULF OF MANNAR, COMORIN, PALK STRAIT , TAMILNADU, ADJOINING RAYALSEEMA, SOUTH WEST ADJOINING WEST CENTRAL BAY OF BENGAL BETWEEN LAT 5.0 DEGREE N TO 15.0 DEGREE N WEST OF LONG 84.5 DEGREE E. WIND SHEAR OF THE AREA IS BETWEEN 10 TO 20 KNOTS. THE LOWEST CLOUD TOP TEMPERATURE (CTT) IS ABOUT -85^{0}C.SUSTAINED MAXIMUM SURFACE WIND SPEED IS ESTIMATED TO BE ABOUT 35 KNOTS GUSTING TO 45 KNOTS AROUND SYSTEM CENTRE. THE STATE OF THE SEA IS HIGH AROUND THE SYSTEM CENTRE. THE ESTIMATED CENTRAL PRESSURE IS ABOUT 998 HPA.

REMARK:
CONSIDERING THE ENVIRONMENTAL FEATURES, THE SEA SURFACE TEMPERATURE IS ABOUT 29-30º C. OVER SOUTH BAY OF BENGAL. THE OCEAN THERMAL ENERGY IS > 80 KJ/CM SQUARE AROUND THE SYSTEM CENTRE. THE MADDEN JULIAN OSCILLATION INDEX CURRENTLY LIES OVER PHASE 2. AS PER STATISTICAL AND NWP MODEL PREDICTIONS, IT IS EXPECTED TO LIE IN PHASE 2 DURING NEXT 3 DAYS.AN ANTICYCLONIC CIRCULATION LIES OVER CENTRAL BAY OF BENGAL (NORTHEAST SECTOR OF CYCLONE). THE UPPER TROPOSPHERIC RIDGE LIES ALONG 13ºN. THE LOW LEVEL CONVERGENCE, UPPER LEVEL DIVERGENCE AND RELATIVE VORTICITY HAS INCREASED DURING PAST 06 HRS AND THE VERTICAL WIND SHEAR HAS DECREASED BETWEEN 200 AND 850 HPA LEVELS AND IS LOW (5-10 KNOTS) AROUND SYSTEM CENTRE. 24 HOURS WIND SHEAR TENDENCY SHOWS DECREASING TREND OF THE ORDER OF 10 KNOTS OVER WEST CENTRAL BAY OF BENGAL OFF TAMIL NADU AND ANDHRA PRADESH COAST.

MOST MODELS SUGGEST NORTHWESTWARD MOVEMENT TOWARDS NORTH TAMIL NADU AND LANDFALL NEAR CHENNAI.

(KAMALJIT RAY)
SCIENTIST-E

TOO:301530

भारत मौसम विज्ञान विभाग
INDIA METEOROLOGICAL DEPARTMENT

FROM: RSMC –TROPICAL CYCLONES, NEW DELHI
TO: STORM WARNING CENTRE, DHAKA (BANGLADESH)
STORM WARNING CENTRE, YANGAON (MYANMAR)
STORM WARNING CENTRE, BANGKOK (THAILAND)
STORM WARNING CENTRE, COLOMBO (SRILANKA)
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 **'NILAM'** ADVISORY NO THREE ISSUED AT 1200 UTC OF 30TH OCTOBER 2012 BASED ON 0900 UTC CHARTS OF 30TH OCTOBER 2012.

CYCLONIC STORM '**NILAM**', REMAINED PRACTICALLY STATIONARY AND LAY CENTRED AT 1430 HOURS IST OF TODAY, THE 30TH OCTOBER 2012 NEAR LATITUDE 9.5^{0}N AND LONGITUDE 82.0^{0}E, ABOUT 450 KM SOUTH-SOUTHEAST OF CHENNAI AND 130 KM NORTH-NORTHEAST OF TRINCOMALEE (SRI LANKA). THE SYSTEM WOULD MOVE NORTH-NORTHWESTWARDS AND CROSS NORTH TAMIL NADU & ADJOINING SOUTH ANDHRA PRADESH COAST BETWEEN CUDDALORE AND NELLORE NEAR CHENNAI BY 31ST OCTOBER, 2012 EVENING.

BASED ON LATEST ANALYSIS WITH NWP MODELS AND OTHER CONVENTIONAL TECHNIQUES, ESTIMATED TRACK AND INTENSITY OF THE SYSTEM ARE GIVEN IN THE TABLE BELOW:

DATE/TIME(IST)	POSITION (LAT. ^{0}N/ LONG. ^{0}E)	SUSTAINED MAXIMUM SURFACE WIND SPEED (KMPH)	CATEGORY
30-10-2012/1430	9.5/82.0	65-75 GUSTING TO 85	CYCLONIC STORM
30-10-2012/1730	9.5/81.8	70-80 GUSTING TO 90	CYCLONIC STORM
30-10-2012/2330	10.0/81.2	75-85 GUSTING TO 95	CYCLONIC STORM
31-10-2012/0530	10.7/80.9	80-90 GUSTING TO 100	CYCLONIC STORM
31-10-2012/1130	11.5/80.6	80-90 GUSTING TO 100	CYCLONIC STORM
31-10-2012/2330	12.8/80.0	80-90 GUSTING TO 100	CYCLONIC STORM
01-11-2012/1130	14.2/79.0	50-60 GUSTING TO 70	DEPRESSION
01-11-2012/2330	16.0/78.0	25-35 GUSTING TO 45	LOW

ACCORDING TO SATELLITE IMAGERIES, VORTEX OVER SW BAY ADJ SRILANKA CENTERED NEAR 9.5N/81.9E (.) INTENSITY T2.5 RPT T2.5 (.) ASSOCIATED BROKEN INTENSE TO VERY INTENSE CONVECTION OVER SRILANKA GULF OF MANNAR COMORIN PALK STR TAMIL NADU ADJOINING RAYALSEEMA SW ADJOINING WEST CENTRAL BAY BET LAT 6.5N TO 12.0N WEST OF LONG 84.0E (.)

REMARK:

CONSIDERING THE ENVIRONMENTAL FEATURES, THE SEA SURFACE TEMPERATURE IS ABOUT 29-30º C. OVER SOUTH BAY OF BENGAL. THE OCEAN THERMAL ENERGY IS > 80 KJ/CM SQUARE AROUND THE SYSTEM CENTRE. THE MADDEN JULIAN OSCILLATION INDEX CURRENTLY LIES OVER PHASE 2. AS PER STATISTICAL AND NWP MODEL PREDICTIONS, IT IS EXPECTED TO LIE IN PHASE 2 DURING NEXT 3 DAYS.AN ANTICYCLONIC CIRCULATION LIES OVER CENTRAL BAY OF BENGAL (NORTHEAST SECTOR OF CYCLONE). THE UPPER TROPOSPHERIC RIDGE LIES ALONG 13ºN. THE LOW LEVEL CONVERGENCE, UPPER LEVEL DIVERGENCE AND RELATIVE VORTICITY HAS INCREASED DURING PAST 06 HRS AND THE VERTICAL WIND SHEAR HAS DECREASED BETWEEN 200 AND 850 HPA LEVELS AND IS LOW (5-10 KNOTS) AROUND SYSTEM CENTRE. 24 HOURS WIND SHEAR TENDENCY SHOWS DECREASING TREND OF THE ORDER OF 20 KNOTS OVER WEST CENTRAL BAY OF BENGAL OFF TAMIL NADU AND ANDHRA PRADESH COAST.

MOST MODELS SUGGEST NORTHWESTWARD MOVEMENT TOWARDS NORTH TAMIL NADU AND LANDFALL NEAR CHENNAI.

(KAMALJIT RAY)
SCIENTIST-E

TOO:301730

भारत मौसम विज्ञान विभाग
INDIA METEOROLOGICAL DEPARTMENT

FROM: RSMC –TROPICAL CYCLONES, NEW DELHI
TO: STORM WARNING CENTRE, DHAKA (BANGLADESH)
STORM WARNING CENTRE, YANGAON (MYANMAR)
STORM WARNING CENTRE, BANGKOK (THAILAND)
STORM WARNING CENTRE, COLOMBO (SRILANKA)
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 **'NILAM'** ADVISORY NO FOUR ISSUED AT 1500 UTC OF 30TH OCTOBER 2012 BASED ON 1200 UTC CHARTS OF 30TH OCTOBER 2012.

CYCLONIC STORM '**NILAM**', REMAINED PRACTICALLY STATIONARY AND LAY CENTRED AT 1200 UTC OF TODAY, THE 30TH OCTOBER 2012 NEAR LATITUDE 9.5^{0}N AND LONGITUDE 82.0^{0}E, ABOUT 450 KM SOUTH-SOUTHEAST OF CHENNAI (43279) AND 130 KM NORTH-NORTHEAST OF TRINCOMALEE (43418). THE SYSTEM WOULD MOVE NORTH-NORTHWESTWARDS AND CROSS NORTH TAMIL NADU & ADJOINING SOUTH ANDHRA PRADESH COAST BETWEEN CUDDALORE AND NELLORE NEAR CHENNAI AROUND 1200 UTC OF 31ST OCTOBER, 2012.

BASED ON LATEST ANALYSIS WITH NWP MODELS AND OTHER CONVENTIONAL TECHNIQUES, ESTIMATED TRACK AND INTENSITY OF THE SYSTEM ARE GIVEN IN THE TABLE BELOW:

DATE/TIME(UTC)	POSITION (LAT. ^{0}N/ LONG. ^{0}E)	SUSTAINED MAXIMUM SURFACE WIND SPEED (KMPH)	CATEGORY
30-10-2012/1200	9.5/82.0	70-80 GUSTING TO 90	CYCLONIC STORM
30-10-2012/1800	10.0/81.7	75-85 GUSTING TO 95	CYCLONIC STORM
31-10-2012/0000	10.7/81.3	80-90 GUSTING TO 100	CYCLONIC STORM
31-10-2012/0600	11.5/80.8	80-90 GUSTING TO 100	CYCLONIC STORM
31-10-2012/1200	12.3/80.3	80-90 GUSTING TO 100	CYCLONIC STORM
01-10-2012/0000	13.8/79.3	55-65 GUSTING TO 75	DEEP DEPRESSION
01-11-2012/1200	15.3/78.3	25-35 GUSTING TO 45	LOW

ACCORDING TO SATELLITE IMAGERIES, INTENSITY OF CYCLONIC STORM IS T2.5 RPT T2.5 (.) ASSOCIATED BROKEN INTENSE TO VERY INTENSE CONVECTION LIES OVER SRILANKA GULF OF MANNAR COMORIN PALK STRAIGHT, TAMIL NADU ADJOINING RAYALSEEMA, SW ADJOINING WEST CENTRAL BAY BET LAT 7.0N TO 11.5N WEST OF LONG 83.0E. MAXIMUM SUSTAINED WIND SPEED IS 40 KNOTS GUSTING TO 50 KNOTS. STATE OF SEA IS HIGH. THE ESTIMATED CENTRAL PRESSURE (ECP) IS 996 HPA.

REMARK:
CONSIDERING THE ENVIRONMENTAL FEATURES, THE SEA SURFACE TEMPERATURE IS ABOUT 29-30º C. OVER SOUTH BAY OF BENGAL. THE OCEAN THERMAL ENERGY IS > 80 KJ/CM SQUARE AROUND THE SYSTEM CENTRE. THE MADDEN JULIAN OSCILLATION INDEX CURRENTLY LIES OVER PHASE 2. AS PER STATISTICAL AND NWP MODEL PREDICTIONS, IT IS EXPECTED TO LIE IN PHASE 2 DURING NEXT 3 DAYS. AN ANTICYCLONIC CIRCULATION LIES OVER CENTRAL BAY OF BENGAL (NORTHEAST OF SYSTEM CENTRE). THE UPPER TROPOSPHERIC RIDGE LIES ALONG 15ºN. THE LOW LEVEL CONVERGENCE, UPPER LEVEL DIVERGENCE AND RELATIVE VORTICITY REMAINED SAME DURING PAST SIX HOURS AND THE VERTICAL WIND SHEAR HAS DECREASED BETWEEN 200 AND 850 HPA LEVELS AND IS MODERATE (5-10 KNOTS) AROUND SYSTEM CENTRE. 24 HOURS WIND SHEAR TENDENCY SHOWS DECREASING TREND OF THE ORDER OF 10 KNOTS OVER WEST CENTRAL BAY OF BENGAL OFF TAMIL NADU AND ANDHRA PRADESH COAST.

MOST MODELS SUGGEST NORTHWESTWARD MOVEMENT TOWARDS NORTH TAMIL NADU AND LANDFALL NEAR CHENNAI.

(M MOHAPATRA)
SCIENTIST-E

TOO:302030

भारत मौसम विज्ञान विभाग
INDIA METEOROLOGICAL DEPARTMENT

FROM: RSMC –TROPICAL CYCLONES, NEW DELHI
TO: STORM WARNING CENTRE, DHAKA (BANGLADESH)
STORM WARNING CENTRE, YANGAON (MYANMAR)
STORM WARNING CENTRE, BANGKOK (THAILAND)
STORM WARNING CENTRE, COLOMBO (SRILANKA)
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 **'NILAM'** ADVISORY NO FIVE ISSUED AT 1700 UTC OF 30TH OCTOBER 2012 BASED ON 1500 UTC CHARTS OF 30TH OCTOBER 2012.

CYCLONIC STORM '**NILAM**', REMAINED PRACTICALLY STATIONARY AND LAY CENTRED AT 1500 UTC OF TODAY, THE 30TH OCTOBER 2012 NEAR LATITUDE 9.5^{0}N AND LONGITUDE 82.0^{0}E, ABOUT 450 KM SOUTH-SOUTHEAST OF CHENNAI (43279) AND 130 KM NORTH-NORTHEAST OF TRINCOMALEE (43418). THE SYSTEM WOULD MOVE NORTH-NORTHWESTWARDS AND CROSS NORTH TAMIL NADU & ADJOINING SOUTH ANDHRA PRADESH COAST BETWEEN CUDDALORE AND NELLORE NEAR CHENNAI AROUND 1200 UTC OF 31ST OCTOBER, 2012.

BASED ON LATEST ANALYSIS WITH NWP MODELS AND OTHER CONVENTIONAL TECHNIQUES, ESTIMATED TRACK AND INTENSITY OF THE SYSTEM ARE GIVEN IN THE TABLE BELOW:

DATE/TIME(UTC)	POSITION (LAT. ^{0}N/ LONG. ^{0}E)	SUSTAINED MAXIMUM SURFACE WIND SPEED (KMPH)	CATEGORY
30-10-2012/1500	9.5/82.0	70-80 GUSTING TO 90	CYCLONIC STORM
30-10-2012/1800	10.0/81.7	75-85 GUSTING TO 95	CYCLONIC STORM
31-10-2012/0000	10.7/81.3	80-90 GUSTING TO 100	CYCLONIC STORM
31-10-2012/0600	11.5/80.8	80-90 GUSTING TO 100	CYCLONIC STORM
31-10-2012/1200	12.3/80.3	80-90 GUSTING TO 100	CYCLONIC STORM
01-10-2012/0000	13.8/79.3	55-65 GUSTING TO 75	DEEP DEPRESSION
01-11-2012/1200	15.3/78.3	25-35 GUSTING TO 45	LOW

ACCORDING TO SATELLITE IMAGERIES, INTENSITY OF CYCLONIC STORM IS T2.5 RPT T2.5 (.) ASSOCIATED BROKEN INTENSE TO VERY INTENSE CONVECTION LIES OVER SRILANKA GULF OF MANNAR COMORIN PALK STRAIGHT, TAMIL NADU ADJOINING RAYALSEEMA, SOUTHWEST ADJOINING WESTCENTRAL BAY OF BENGAL BETWEEN LAT 7.0^{0}N TO 11.5^{0}N WEST OF LONG 83.0^{0}E. MAXIMUM SUSTAINED WIND SPEED IS 40 KNOTS GUSTING TO 50 KNOTS. STATE OF SEA IS HIGH. THE ESTIMATED CENTRAL PRESSURE (ECP) IS 996 HPA.

REMARK:
CONSIDERING THE ENVIRONMENTAL FEATURES, THE SEA SURFACE TEMPERATURE IS ABOUT 29-30º C. OVER SOUTH BAY OF BENGAL. THE OCEAN THERMAL ENERGY IS > 80 KJ/CM SQUARE AROUND THE SYSTEM CENTRE. THE MADDEN JULIAN OSCILLATION INDEX CURRENTLY LIES OVER PHASE 2. AS PER STATISTICAL AND NWP MODEL PREDICTIONS, IT IS EXPECTED TO LIE IN PHASE 2 DURING NEXT 3 DAYS. AN ANTICYCLONIC CIRCULATION LIES OVER CENTRAL BAY OF BENGAL (NORTHEAST OF SYSTEM CENTRE). THE UPPER TROPOSPHERIC RIDGE LIES ALONG 15ºN. THE LOW LEVEL CONVERGENCE, UPPER LEVEL DIVERGENCE AND RELATIVE VORTICITY REMAINED SAME DURING PAST SIX HOURS AND THE VERTICAL WIND SHEAR HAS DECREASED BETWEEN 200 AND 850 HPA LEVELS AND IS MODERATE (5-10 KNOTS) AROUND SYSTEM CENTRE. 24 HOURS WIND SHEAR TENDENCY SHOWS DECREASING TREND OF THE ORDER OF 10 KNOTS OVER WEST CENTRAL BAY OF BENGAL OFF TAMIL NADU AND ANDHRA PRADESH COAST.

MOST MODELS SUGGEST NORTHWESTWARD MOVEMENT TOWARDS NORTH TAMIL NADU AND LANDFALL NEAR CHENNAI.

(NARESH KUMAR)
METEOROLOGIST

TOO:302230

भारत मौसम विज्ञान विभाग
INDIA METEOROLOGICAL DEPARTMENT

FROM: RSMC –TROPICAL CYCLONES, NEW DELHI

TO: STORM WARNING CENTRE, DHAKA (BANGLADESH)
STORM WARNING CENTRE, YANGAON (MYANMAR)
STORM WARNING CENTRE, BANGKOK (THAILAND)
STORM WARNING CENTRE, COLOMBO (SRILANKA)
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 **'NILAM'** ADVISORY NO SIX ISSUED AT 2100 UTC OF 30TH OCTOBER 2012 BASED ON 1800 UTC CHARTS OF 30TH OCTOBER 2012.

CYCLONIC STORM '**NILAM**', MOVED NORTHWARD AND LAY CENTRED AT 1800 UTC OF TODAY, THE 30TH OCTOBER 2012 NEAR LATITUDE 10.0^{0}N AND LONGITUDE 82.0^{0}E, ABOUT 400 KM SOUTH-SOUTHEAST OF CHENNAI (43279) AND 180 KM NORTH-NORTHEAST OF TRINCOMALEE (43418). THE SYSTEM WOULD MOVE NORTH-NORTHWESTWARDS AND CROSS NORTH TAMIL NADU & ADJOINING SOUTH ANDHRA PRADESH COAST BETWEEN CUDDALORE AND NELLORE NEAR CHENNAI AROUND 1200 UTC OF 31ST OCTOBER, 2012.

BASED ON LATEST ANALYSIS WITH NWP MODELS AND OTHER CONVENTIONAL TECHNIQUES, ESTIMATED TRACK AND INTENSITY OF THE SYSTEM ARE GIVEN IN THE TABLE BELOW:

DATE/TIME(UTC)	POSITION (LAT. ^{0}N/ LONG. ^{0}E)	SUSTAINED MAXIMUM SURFACE WIND SPEED (KMPH)	CATEGORY
30-10-2012/1800	10.0/82.0	75-85 GUSTING TO 95	CYCLONIC STORM
31-10-2012/0000	10.7/81.3	80-90 GUSTING TO 100	CYCLONIC STORM
31-10-2012/0600	11.5/80.8	80-90 GUSTING TO 100	CYCLONIC STORM
31-10-2012/1200	12.3/80.3	80-90 GUSTING TO 100	CYCLONIC STORM
31-10-2012/1800	13.0/79.8	80-90 GUSTING TO 100	CYCLONIC STORM
01-10-2012/0000	13.8/79.3	55-65 GUSTING TO 75	DEEP DEPRESSION
01-11-2012/1200	15.3/78.3	25-35 GUSTING TO 45	LOW

ACCORDING TO SATELLITE IMAGERIES, INTENSITY OF CYCLONIC STORM IS T2.5 RPT T2.5 (.) ASSOCIATED BROKEN INTENSE TO VERY INTENSE CONVECTION LIES OVER SRILANKA GULF OF MANNAR COMORIN PALK STRAIGHT, TAMIL NADU ADJOINING RAYALSEEMA, SOUTHWEST ADJOINING WESTCENTRAL BAY OF BENGAL BETWEEN LAT 7.0^{0}N TO 11.5^{0}N WEST OF LONG 83.0^{0}E. MAXIMUM SUSTAINED WIND SPEED IS 40 KNOTS GUSTING TO 50 KNOTS. STATE OF SEA IS HIGH. THE ESTIMATED CENTRAL PRESSURE (ECP) IS 996 HPA.

REMARK:
CONSIDERING THE ENVIRONMENTAL FEATURES, THE SEA SURFACE TEMPERATURE IS ABOUT 29-30º C. OVER SOUTH BAY OF BENGAL. THE OCEAN THERMAL ENERGY IS > 80 KJ/CM SQUARE AROUND THE SYSTEM CENTRE. THE MADDEN JULIAN OSCILLATION INDEX CURRENTLY LIES OVER PHASE 2. AS PER STATISTICAL AND NWP MODEL PREDICTIONS, IT IS EXPECTED TO LIE IN PHASE 2 DURING NEXT 3 DAYS. AN ANTICYCLONIC CIRCULATION LIES OVER WESTCENTRAL BAY OF BENGAL (NORTHEAST OF SYSTEM CENTRE). THE UPPER TROPOSPHERIC RIDGE LIES ALONG 15º N. THE LOW LEVEL CONVERGENCE, UPPER LEVEL DIVERGENCE AND RELATIVE VORTICITY REMAINED SAME DURING PAST SIX HOURS AND THE VERTICAL WIND SHEAR BETWEEN 200 AND 850 HPA LEVELS IS 5-10 KNOTS AROUND SYSTEM CENTRE. 24 HOURS WIND SHEAR TENDENCY SHOWS DECREASING TREND OF THE ORDER OF 10 KNOTS OVER WEST CENTRAL BAY OF BENGAL OFF TAMIL NADU AND ANDHRA PRADESH COAST.
MOST MODELS SUGGEST NORTHWESTWARD MOVEMENT TOWARDS NORTH TAMIL NADU AND LANDFALL NEAR CHENNAI.

TROPICAL STORM **'NILAM'** IS NOW BEING CAPTURED BY DWR CHENNAI, AS PER ITS OBSERVATION AT 1800 UTC, ITS CENTRE LIES NEAR 9.9^{0}N/ 81.9^{0}E WITH FAIR CONFIDENCE.

(NARESH KUMAR)
METEOROLOGIST

TOO:310230

भारत मौसम विज्ञान विभाग
INDIA METEOROLOGICAL DEPARTMENT

FROM: RSMC –TROPICAL CYCLONES, NEW DELHI
TO: STORM WARNING CENTRE, DHAKA (BANGLADESH)
STORM WARNING CENTRE, YANGAON (MYANMAR)
STORM WARNING CENTRE, BANGKOK (THAILAND)
STORM WARNING CENTRE, COLOMBO (SRILANKA)
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 **'NILAM'** ADVISORY NO SEVEN ISSUED AT 2300 UTC OF 30TH OCTOBER 2012 BASED ON 2100 UTC CHARTS OF 30TH OCTOBER 2012.

CYCLONIC STORM '**NILAM**', REMAINED PRACTICALLY STATIONARY AND LAY CENTRED AT 2100 UTC OF TODAY, THE 30TH OCTOBER 2012 NEAR LATITUDE 10.0^{0}N AND LONGITUDE 82.0^{0}E, ABOUT 400 KM SOUTH-SOUTHEAST OF CHENNAI (43279) AND 180 KM NORTH-NORTHEAST OF TRINCOMALEE (43418). THE SYSTEM WOULD MOVE NORTH-NORTHWESTWARDS AND CROSS NORTH TAMIL NADU & ADJOINING SOUTH ANDHRA PRADESH COAST BETWEEN CUDDALORE AND NELLORE NEAR CHENNAI AROUND 1200 UTC OF 31ST OCTOBER, 2012.

BASED ON LATEST ANALYSIS WITH NWP MODELS AND OTHER CONVENTIONAL TECHNIQUES, ESTIMATED TRACK AND INTENSITY OF THE SYSTEM ARE GIVEN IN THE TABLE BELOW:

DATE/TIME(UTC)	POSITION (LAT. ^{0}N/ LONG. ^{0}E)	SUSTAINED MAXIMUM SURFACE WIND SPEED (KMPH)	CATEGORY
30-10-2012/2100	10.0/82.0	75-85 GUSTING TO 95	CYCLONIC STORM
31-10-2012/0000	10.7/81.3	80-90 GUSTING TO 100	CYCLONIC STORM
31-10-2012/0600	11.5/80.8	80-90 GUSTING TO 100	CYCLONIC STORM
31-10-2012/1200	12.3/80.3	80-90 GUSTING TO 100	CYCLONIC STORM
31-10-2012/1800	13.0/79.8	80-90 GUSTING TO 100	CYCLONIC STORM
01-11-2012/0000	13.8/79.3	55-65 GUSTING TO 75	DEEP DEPRESSION
01-11-2012/1200	15.3/78.3	25-35 GUSTING TO 45	LOW

ACCORDING TO SATELLITE IMAGERIES, INTENSITY OF CYCLONIC STORM IS T2.5 RPT T2.5 (.) ASSOCIATED BROKEN INTENSE TO VERY INTENSE CONVECTION LIES OVER SRILANKA GULF OF MANNAR PALK STRAIGHT, TAMIL NADU ADJOINING RAYALSEEMA, SOUTHWEST ADJOINING WESTCENTRAL BAY OF BENGAL BETWEEN LAT 7.5^{0}N TO 13.5^{0}N WEST OF LONG 84.0^{0}E. MAXIMUM SUSTAINED WIND SPEED IS 40 KNOTS GUSTING TO 50 KNOTS. STATE OF SEA IS HIGH. THE ESTIMATED CENTRAL PRESSURE (ECP) IS 996 HPA.

REMARK:
CONSIDERING THE ENVIRONMENTAL FEATURES, THE SEA SURFACE TEMPERATURE IS ABOUT 29-30º C. OVER SOUTH BAY OF BENGAL. THE OCEAN THERMAL ENERGY IS > 80 KJ/CM SQUARE AROUND THE SYSTEM CENTRE. THE MADDEN JULIAN OSCILLATION INDEX CURRENTLY LIES OVER PHASE 2. AS PER STATISTICAL AND NWP MODEL PREDICTIONS, IT IS EXPECTED TO LIE IN PHASE 2 DURING NEXT 3 DAYS. AN ANTICYCLONIC CIRCULATION LIES OVER WESTCENTRAL BAY OF BENGAL (NORTHEAST OF SYSTEM CENTRE). THE UPPER TROPOSPHERIC RIDGE LIES ALONG 15º N. THE LOW LEVEL CONVERGENCE, UPPER LEVEL DIVERGENCE AND RELATIVE VORTICITY REMAINED SAME DURING PAST SIX HOURS AND THE VERTICAL WIND SHEAR BETWEEN 200 AND 850 HPA LEVELS IS 5-10 KNOTS AROUND SYSTEM CENTRE. 24 HOURS WIND SHEAR TENDENCY SHOWS DECREASING TREND OF THE ORDER OF 10 KNOTS OVER WEST CENTRAL BAY OF BENGAL OFF TAMIL NADU AND ANDHRA PRADESH COAST.
MOST MODELS SUGGEST NORTHWESTWARD MOVEMENT TOWARDS NORTH TAMIL NADU AND LANDFALL NEAR CHENNAI.

TROPICAL STORM **'NILAM'** IS BEING CAPTURED BY DWR CHENNAI, AS PER ITS OBSERVATION AT 2100 UTC, ITS CENTRE LIES NEAR 10.2^{0}N/ 81.5^{0}E WITH FAIR CONFIDENCE.

(NARESH KUMAR)
METEOROLOGIST

TOO:310500

भारत मौसम विज्ञान विभाग
INDIA METEOROLOGICAL DEPARTMENT

FROM: RSMC –TROPICAL CYCLONES, NEW DELHI
TO: STORM WARNING CENTRE, DHAKA (BANGLADESH)
STORM WARNING CENTRE, YANGAON (MYANMAR)
STORM WARNING CENTRE, BANGKOK (THAILAND)
STORM WARNING CENTRE, COLOMBO (SRILANKA)
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 **'NILAM'** ADVISORY NO EIGHT ISSUED AT 0300 UTC OF 31ST OCTOBER 2012 BASED ON 0000 UTC CHARTS OF 31ST OCTOBER 2012.

CYCLONIC STORM '**NILAM**', MOVED NORTHWESTWARDS AND LAY CENTRED AT 0000 UTC OF TODAY, THE 31ST OCTOBER 2012 NEAR LATITUDE 10.5^{0}N AND LONGITUDE 81.5^{0}E, ABOUT 320 KM SOUTH-SOUTHEAST OF CHENNAI (43279) AND 220 KM NORTH OF TRINCOMALEE (43418). THE SYSTEM WOULD MOVE NORTH-NORTHWESTWARDS AND CROSS NORTH TAMIL NADU & ADJOINING SOUTH ANDHRA PRADESH COAST BETWEEN CUDDALORE AND NELLORE NEAR CHENNAI AROUND 1200 UTC OF 31ST OCTOBER, 2012.

BASED ON LATEST ANALYSIS WITH NWP MODELS AND OTHER CONVENTIONAL TECHNIQUES, ESTIMATED TRACK AND INTENSITY OF THE SYSTEM ARE GIVEN IN THE TABLE BELOW:

DATE/TIME(UTC)	POSITION (LAT. ^{0}N/ LONG. ^{0}E)	SUSTAINED MAXIMUM SURFACE WIND SPEED (KMPH)	CATEGORY
31-10-2012/0000	10.5/81.5	80-90 GUSTING TO 100	CYCLONIC STORM
31-10-2012/0600	11.5/81.0	80-90 GUSTING TO 100	CYCLONIC STORM
31-10-2012/1200	12.5/80.3	80-90 GUSTING TO 100	CYCLONIC STORM
31-10-2012/1800	13.0/79.8	80-90 GUSTING TO 100	CYCLONIC STORM
01-11-2012/0000	13.8/79.3	55-65 GUSTING TO 75	DEEP DEPRESSION
01-11-2012/1200	15.3/78.3	25-35 GUSTING TO 45	LOW

ACCORDING TO SATELLITE IMAGERIES, INTENSITY OF CYCLONIC STORM IS T3.0 RPT T3.0 (.) ASSOCIATED BROKEN INTENSE TO VERY INTENSE CONVECTION LIES OVER SRILANKA GULF OF MANNAR, COMRIN, PALK STRAIGHT, TAMIL NADU ADJOINING RAYALSEEMA, SOUTHWEST ADJOINING WESTCENTRAL BAY OF BENGAL BETWEEN LAT 7.5^{0}N TO 15.5^{0}N WEST OF LONG 83.5^{0}E. MAXIMUM SUSTAINED WIND SPEED IS 45 KNOTS GUSTING TO 55 KNOTS. STATE OF SEA IS HIGH. THE ESTIMATED CENTRAL PRESSURE (ECP) IS 994 HPA.

REMARK:
CONSIDERING THE ENVIRONMENTAL FEATURES, THE SEA SURFACE TEMPERATURE IS ABOUT 29-30ºC. OVER SOUTH BAY OF BENGAL. THE OCEAN THERMAL ENERGY IS > 80 KJ/CM SQUARE AROUND THE SYSTEM CENTRE. THE MADDEN JULIAN OSCILLATION INDEX CURRENTLY LIES OVER PHASE 2. AS PER STATISTICAL AND NWP MODEL PREDICTIONS, IT IS EXPECTED TO LIE IN PHASE 2 DURING NEXT 3 DAYS. AN ANTICYCLONIC CIRCULATION LIES OVER WESTCENTRAL BAY OF BENGAL (NORTHEAST OF SYSTEM CENTRE). THE UPPER TROPOSPHERIC RIDGE LIES ALONG 17º N. THE LOW LEVEL CONVERGENCE, UPPER LEVEL DIVERGENCE AND RELATIVE VORTICITY REMAINED SAME DURING PAST SIX HOURS AND THE VERTICAL WIND SHEAR BETWEEN 200 AND 850 HPA LEVELS IS OF THE ORDER OF 10 KNOTS AROUND SYSTEM CENTRE. 24 HOURS WIND SHEAR TENDENCY SHOWS DECREASING TREND OF THE ORDER OF 5-10 KNOTS OVER WEST CENTRAL BAY OF BENGAL OFF TAMIL NADU AND ANDHRA PRADESH COAST.
MOST MODELS SUGGEST NORTHWESTWARD MOVEMENT TOWARDS NORTH TAMIL NADU AND LANDFALL NEAR CHENNAI.

TROPICAL STORM **'NILAM'** IS BEING CAPTURED BY DWR CHENNAI, AS PER ITS OBSERVATION AT 0000 UTC, ITS CENTRE LIES NEAR 10.3^{0}N/ 81.7^{0}E WITH FAIR CONFIDENCE.

(NARESH KUMAR)
METEOROLOGIST

TOO:310800

भारत मौसम विज्ञान विभाग
INDIA METEOROLOGICAL DEPARTMENT

FROM: RSMC –TROPICAL CYCLONES, NEW DELHI

TO: STORM WARNING CENTRE, DHAKA (BANGLADESH)
STORM WARNING CENTRE, YANGAON (MYANMAR)
STORM WARNING CENTRE, BANGKOK (THAILAND)
STORM WARNING CENTRE, COLOMBO (SRILANKA)
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 **'NILAM'** ADVISORY NO NINE ISSUED AT 0600 UTC OF 31ST OCTOBER 2012 BASED ON 0300 UTC CHARTS OF 31ST OCTOBER 2012.

THE CYCLONIC STORM '**NILAM**', MOVED NORTHWESTWARDS AND LAY CENTRED AT 0830 HOURS IST OF TODAY, THE 31ST OCTOBER 2012 NEAR LATITUDE 11.0^{0}N AND LONGITUDE 81.0^{0}E, ABOUT 260 KM SOUTH-SOUTHEAST OF CHENNAI (43279) AND 300 KM NORTH OF TRINCOMALEE (43418). THE SYSTEM WOULD INTENSIFY FURTHER INTO A SEVERE CYCLONIC STORM AND MOVE NORTHWESTWARDS AND CROSS NORTH TAMIL NADU & ADJOINING SOUTH ANDHRA PRADESH COAST BETWEEN PUDUCHERRY AND NELLORE, CLOSE TO CHENNAI BY 31ST OCTOBER, 2012 EVENING.

BASED ON LATEST ANALYSIS WITH NWP MODELS AND OTHER CONVENTIONAL TECHNIQUES, ESTIMATED TRACK AND INTENSITY OF THE SYSTEM ARE GIVEN IN THE TABLE BELOW:

DATE/TIME(UTC)	POSITION (LAT. ^{0}N/ LONG. ^{0}E)	SUSTAINED MAXIMUM SURFACE WIND SPEED (KMPH)	CATEGORY
31-10-2012/0300	11.0/81.0	80-90 GUSTING TO 100	CYCLONIC STORM
31-10-2012/0600	11.5/81.0	90-100 GUSTING TO 110	SEVERE CYCLONIC STORM
31-10-2012/1200	12.5/80.3	90-100 GUSTING TO 110	SEVERE CYCLONIC STORM
31-10-2012/1800	13.5/79.5	70-80 GUSTING TO 90	CYCLONIC STORM
01-11-2012/0000	14.5/78.5	55-65 GUSTING TO 75	DEEP DEPRESSION
01-11-2012/1200	15.5/77.5	25-35 GUSTING TO 45	LOW

ACCORDING TO SATELLITE IMAGERIES, VORTEX (NILAM) OVER SOUTHWEST BAY ADJOINING SRILANKA CENTERED NEAR 10.5N/81.1E (.) INTENSITY T3.0 RPT T3.0 (.) ASSOCIATED BROKEN INTENSE TO VERY INTENSE CONVECTION OVER SRILANKA GULF OF MANNAR COMORIN PALK STR TAMIL NADU ADJOINING RAYALSEEMA SOUTH WEST ADJOINING WEST CENTRAL BAY BETWEEN LAT 7.5N TO 15.5N WEST OF LONG 83.5E (.) MAXIMUM SUSTAINED WIND SPEED IS 45 KNOTS GUSTING TO 55 KNOTS. STATE OF SEA IS HIGH TO VERY HIGH. THE ESTIMATED CENTRAL PRESSURE (ECP) IS 994 HPA.

REMARK:

CONSIDERING THE ENVIRONMENTAL FEATURES, THE SEA SURFACE TEMPERATURE IS ABOUT 29-30ºC. OVER SOUTH BAY OF BENGAL. THE OCEAN THERMAL ENERGY IS > 80 KJ/CM SQUARE AROUND THE SYSTEM CENTRE. THE MADDEN JULIAN OSCILLATION INDEX CURRENTLY LIES OVER PHASE 2. AS PER STATISTICAL AND NWP MODEL PREDICTIONS, IT IS EXPECTED TO LIE IN PHASE 2 DURING NEXT 3 DAYS. AN ANTICYCLONIC CIRCULATION LIES OVER WESTCENTRAL BAY OF BENGAL (NORTHEAST OF SYSTEM CENTRE). UPPER LEVEL WINDS ARE SOUTH-SOUTHEASTERLY OVER SOUTHWEST BAY OF BENGAL BECOMING EAST- SOUTHEASTERLY NEAR THE COAST FAVOURING INITIAL NORTH-NORTHWESTERLY AND THEN NORTHWESTERLY MOVEMENT OF CYCLONE. THE UPPER TROPOSPHERIC RIDGE LIES ALONG 17º N. THE LOW LEVEL CONVERGENCE, UPPER LEVEL DIVERGENCE AND RELATIVE VORTICITY REMAINED SAME DURING PAST SIX HOURS AND THE VERTICAL WIND SHEAR BETWEEN 200 AND 850 HPA LEVELS IS OF THE ORDER OF 10 KNOTS AROUND SYSTEM CENTRE. 24 HOURS WIND SHEAR TENDENCY SHOWS DECREASING TREND OF THE ORDER OF 5-10 KNOTS OVER WEST CENTRAL BAY OF BENGAL OFF TAMIL NADU AND ANDHRA PRADESH COAST.
MOST MODELS SUGGEST NORTHWESTWARD MOVEMENT OF CYCLONE TOWARDS NORTH TAMIL NADU COAST AND LANDFALL NEAR CHENNAI.

TROPICAL STORM **'NILAM'** IS BEING CAPTURED BY DWR CHENNAI, AS PER ITS OBSERVATION AT 0300 UTC, ITS CENTRE IS NOT WELL DEFINED.

(KAMALJIT RAY)
SCIENTIST-E

TOO:311130

भारत मौसम विज्ञान विभाग
INDIA METEOROLOGICAL DEPARTMENT

FROM: RSMC –TROPICAL CYCLONES, NEW DELHI

TO: STORM WARNING CENTRE, DHAKA (BANGLADESH)
STORM WARNING CENTRE, YANGAON (MYANMAR)
STORM WARNING CENTRE, BANGKOK (THAILAND)
STORM WARNING CENTRE, COLOMBO (SRILANKA)
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 **'NILAM'** ADVISORY NO. TEN ISSUED AT 0900 UTC OF 31ST OCTOBER 2012 BASED ON 0600 UTC CHARTS OF 31ST OCTOBER 2012.

THE CYCLONIC STORM '**NILAM**', MOVED NORTH-NORTHWESTWARDS DURING PAST SIX HOURS AND LAY CENTRED AT 0600 UTC OF TODAY, THE 31ST OCTOBER 2012 NEAR LATITUDE 11.5^{0}N AND LONGITUDE 81.0^{0}E, ABOUT 180 KM SOUTH-SOUTHEAST OF CHENNAI AND 140 KM EAST-SOUTHEAST OF CUDDALORE. THE SYSTEM WOULD MOVE NORTHWESTWARDS AND CROSS NORTH TAMIL NADU & ADJOINING SOUTH ANDHRA PRADESH COAST CLOSE TO CHENNAI AROUND 1200UTC OF 31ST OCTOBER, 2012.

BASED ON LATEST ANALYSIS WITH NWP MODELS AND OTHER CONVENTIONAL TECHNIQUES, ESTIMATED TRACK AND INTENSITY OF THE SYSTEM ARE GIVEN IN THE TABLE BELOW:

DATE/TIME(UTC)	POSITION (LAT. ^{0}N/ LONG. ^{0}E)	SUSTAINED MAXIMUM SURFACE WIND SPEED (KMPH)	CATEGORY
31-10-2012/0600	11.5/81.0	80-90 GUSTING TO 100	CYCLONIC STORM
31-10-2012/1200	12.5/80.0	80-90 GUSTING TO 100	CYCLONIC STORM
31-10-2012/1800	13.5/79.0	70-80 GUSTING TO 90	CYCLONIC STORM
01-11-2012/0000	14.5/78.0	55-65 GUSTING TO 75	DEEP DEPRESSION
01-11-2012/0600	15.5/77.0	25-35 GUSTING TO 45	LOW

ACCORDING TO SATELLITE IMAGERIES, VORTEX (NILAM) OVER SOUTH WEST BAY ADJOINING SRILANKA CENTERED NEAR 10.8N/81.0E. INTENSITY T3.0 RPT T3.0. ASSOCIATED BROKEN INTENSE TO VERY INTENSE CONVECTION OVER NORTH SRILANKA GULF OF MANNAR COMORIN PALK STR TAMIL NADU ADJOINING RAYALSEEMA SOUTHWEST ADJOINING WESTCENTRAL BAY BETWEEN LAT 7.5N TO 15.5N WEST OF LONG 83.5E . MAXIMUM SUSTAINED WIND SPEED IS 45 KNOTS GUSTING TO 55 KNOTS. STATE OF SEA IS HIGH TO VERY HIGH. THE ESTIMATED CENTRAL PRESSURE (ECP) IS 992 HPA. COASTAL OBSERVATIONS FROM TAMIL NADU AND PUDUCHERRY INDICATE MAXIMUM SUSTAINED WIND OF ABOUT 20-25 KNOTS. THE LOWEST MSLP OF 998.6 HPA IS REPORTED BY PUDUCHERRY WITH 24HRS PRESSURE CHANGE OF 12.2HPA.
TROPICAL STORM **'NILAM'** IS BEING CAPTURED BY DWR CHENNAI, AS PER ITS OBSERVATION AT 0600 UTC, THE EYE IS ILL DEFINED AND CENTRED AT 11.5º N AND 80.9º E. MAXIMUM REFLECTIVITY NEAR VORTEX CENTRE IS 50 dBZ. THE CONFIDENCE IS POOR.

REMARK:
AN ANTICYCLONIC CIRCULATION LIES OVER WESTCENTRAL BAY OF BENGAL (NORTHEAST OF SYSTEM CENTRE). UPPER LEVEL WINDS ARE SOUTH-SOUTHEASTERLY OVER SOUTHWEST BAY OF BENGAL BECOMING EAST-SOUTHEASTERLY NEAR THE COAST FAVOURING INITIAL NORTH-NORTHWESTERLY AND THEN NORTHWESTERLY MOVEMENT OF CYCLONE. THE UPPER TROPOSPHERIC RIDGE LIES ALONG 17º N. THE LOW LEVEL CONVERGENCE, UPPER LEVEL DIVERGENCE AND RELATIVE VORTICITY REMAINED SAME DURING PAST SIX HOURS AND THE VERTICAL WIND SHEAR BETWEEN 200 AND 850 HPA LEVELS IS OF THE ORDER OF 10 KNOTS AROUND SYSTEM CENTRE. 24 HOURS
MOST MODELS SUGGEST NO FURTHER INTENSIFICATION AND NORTHWESTWARD MOVEMENT OF CYCLONE TOWARDS NORTH TAMIL NADU COAST AND LANDFALL NEAR SOUTH OF CHENNAI.

(M.MOHAPATRA)
SCIENTIST-E

TOO:311400

भारत मौसम विज्ञान विभाग
INDIA METEOROLOGICAL DEPARTMENT

FROM: RSMC –TROPICAL CYCLONES, NEW DELHI

TO: STORM WARNING CENTRE, DHAKA (BANGLADESH)
STORM WARNING CENTRE, YANGAON (MYANMAR)
STORM WARNING CENTRE, BANGKOK (THAILAND)
STORM WARNING CENTRE, COLOMBO (SRILANKA)
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 **'NILAM'** ADVISORY NO. ELEVEN ISSUED AT 1700 UTC OF 31ST OCTOBER 2012 BASED ON 0900 UTC CHARTS OF 31ST OCTOBER 2012.

CYCLONIC STORM, NILAM MOVED NORTH-NORTHWESTWARDS DURING PAST SIX HOURS AND LAY CENTRED AT 1430 HOURS IST OF TODAY, THE 31ST OCTOBER 2012 NEAR LATITUDE 12.0^{0}N AND LONGITUDE 80.5^{0}E, ABOUT 120 KM SOUTH-SOUTHEAST OF CHENNAI AND 70 KM EAST OF PUDUCHERRY. **AS PER THE LATEST RADAR IMAGERY AND COASTAL OBSERVATIONS THE CYCLONIC STORM 'NILAM', IS NOW CROSSING THE COAST AS OBSERVED IN 1630 HRS IST.**
BASED ON LATEST ANALYSIS WITH NWP MODELS AND OTHER CONVENTIONAL TECHNIQUES, ESTIMATED TRACK AND INTENSITY OF THE SYSTEM ARE GIVEN IN THE TABLE BELOW:

DATE/TIME(UTC)	POSITION (LAT. ^{0}N/ LONG. ^{0}E)	SUSTAINED MAXIMUM SURFACE WIND SPEED (KMPH)	CATEGORY
31-10-2012/0900	12.0/80.5	80-90 GUSTING TO 100	CYCLONIC STORM
31-10-2012/1200	13.0/79.0	55-65 GUSTING TO 75	DEEP DEPRESSION
31-10-2012/1800	14.5/78.0	25-35 GUSTING TO 45	LOW

ACCORDING TO SATELLITE IMAGERIES, VORTEX (NILAM) OVER SOUTH WEST BAY ADJOINING SRILANKA CENTERED NEAR LAT11.0 DEG N/80.9 DEG E. INTENSITY T3.0 RPT T3.0. INTENSE TO VERY INTENSE CONVECTIVE CLOUDS ARE OBSERVED AT MANY PLACES OVER SRILANKA, GULF OF MANNAR, COMORIN, PALK STRAIT , TAMILNADU, ADJOINING RAYALSEEMA, SOUTH WEST ADJOINING WEST CENTRAL BAY OF BENGAL BETWEEN LAT 5.0 DEGREE N TO 15.0 DEGREE N WEST OF LONG 84.5 DEGREE E.. MAXIMUM SUSTAINED WIND SPEED IS 45 KNOTS GUSTING TO 55 KNOTS. STATE OF SEA IS HIGH TO VERY HIGH. THE ESTIMATED CENTRAL PRESSURE (ECP) IS 992 HPA.

TROPICAL STORM **'NILAM'** IS BEING CAPTURED BY DWR CHENNAI, AS PER ITS OBSERVATION AT 0600 UTC, THE EYE IS OPEN ELIPTICAL AND CENTRED AT 12.3º N AND 80.4º E. MAXIMUM REFLECTIVITY NEAR VORTEX CENTRE IS 50 dBZ.

(M. Mohapatra)
SCIENTIST-E

TOO:311700

भारत मौसम विज्ञान विभाग
INDIA METEOROLOGICAL DEPARTMENT

FROM: RSMC –TROPICAL CYCLONES, NEW DELHI

TO: STORM WARNING CENTRE, DHAKA (BANGLADESH)
STORM WARNING CENTRE, YANGAON (MYANMAR)
STORM WARNING CENTRE, BANGKOK (THAILAND)
STORM WARNING CENTRE, COLOMBO (SRILANKA)
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 **'NILAM'** ADVISORY NO. TWELVE ISSUED AT 1400 UTC OF 31ST OCTOBER 2012 BASED ON 1200 UTC CHARTS OF 31ST OCTOBER 2012.

CYCLONIC STORM **NILAM** MOVED NORTH-NORTHWESTWARDS, CROSSED NORTH TAMILNADU COAST NEAR LATITUDE 12.6^0N AND LONGITUDE 80.2^0E, SOUTH OF CHENNAI BETWEEN 1030 AND 1130 UTC TODAY, THE 31ST OCTOBER 2012 AND LAY CENTRED AT 1200 UTC OF TODAY, THE 31ST OCTOBER 2012 NEAR LATITUDE 12.7^0N AND LONGITUDE 79.8^0 E, ABOUT 50 KM SOUTH-SOUTHWEST OF CHENNAI. SYSTEM WOULD MOVE NORTHWESTWARDS AND WEAKEN INTO A DEEP DEPRESSION DURING NEXT 06 HOURS.

BASED ON LATEST ANALYSIS WITH NWP MODELS AND OTHER CONVENTIONAL TECHNIQUES, ESTIMATED TRACK AND INTENSITY OF THE SYSTEM ARE GIVEN IN THE TABLE BELOW:

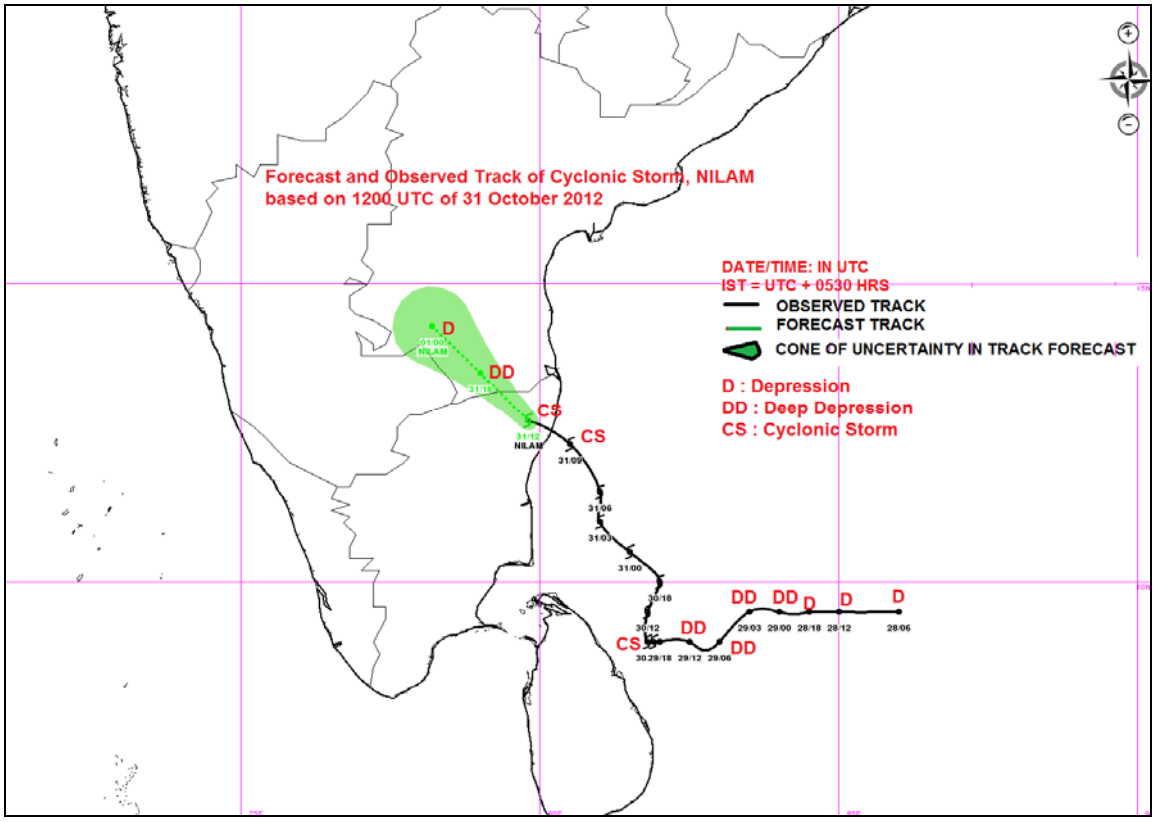
DATE/TIME(UTC)	POSITION (LAT. ^{0}N/ LONG. ^{0}E)	SUSTAINED MAXIMUM SURFACE WIND SPEED (KMPH)	CATEGORY
31-10-2012/1200	12.7/79.8	65-75 GUSTING TO 85	CYCLONIC STORM
31-10-2012/1800	13.5/79.0	55-65 GUSTING TO 75	DEEP DEPRESSION
01-11-2012/0000	14.5/78.0	40-50 GUSTING TO 60	DEPRESSION

ACCORDING TO SATELLITE IMAGERIES, ASSOCIATED BROKEN TO SOLID INTENSE TO VERY INTENSE CONVECTIVE CLOUDS ARE OBSERVED NORTH TAMILNADU, ADJOINING RAYALSEEMA, ADJOINING BAY OF BENGAL BETWEEN LAT 9.0ºN TO 15.0º N WEST OF LONG 82.0ºE. THE SUSTAINED MAXIMUM WIND SPEED ALONG AND OFF NORTH TAMILNADU, PUDUCHERRY AND ADJOINING SOUTH ANDHRA PRADESH COASTS WILL CONTINUE TO BE ABOUT 65-75 KMPH GUSTING TO 85 KMPH DURING NEXT 06 HOURS AND DECREASE THEREAFTER. SEA CONDITION IS VERY ROUGH TO HIGH ALONG ABOVE COASTS DURING NEXT 06 HOURS AND DECREASE THEREAFTER.

THIS IS THE LAST BULLETIN OF THIS SYSTEM

(NARESH KUMAR)
METEOROLOGIST

TOO:311930


Forecast and Observed Track of Cyclonic Storm, NILAM
based on 1200 UTC of 31 October 2012
DATE/TIME: IN UTC
IST = UTC + 0530 HRS
OBSERVED TRACK
FORECAST TRACK
CONE OF UNCERTAINTY IN TRACK FORECAST
D : Depression
DD : Deep Depression
CS : Cyclonic Storm
D
DD
CS
CS
DD
DD
D
D
D
DD
CS
DD
DD