



India Meteorological Department
Earth System Science Organisation
(Ministry of Earth Sciences)

BULLETIN NO.: 01 (BOB 02/2017)

TIME OF ISSUE: 0900 HOURS IST

DATED: 28.05.2017

FROM: INDIA METEOROLOGICAL DEPARTMENT

TO: CONTROL ROOM, NDM, MINISTRY OF HOME AFFAIRS
CONTROL ROOM NDMA
CABINET SECRETARIAT
PS TO HON'BLE MINISTER FOR S & T AND EARTH SCIENCES
SECRETARY, MOES,
SECRETARY, DST
H.Q. (INTEGRATED DEFENCE STAFF AND CDS)
DIRECTOR GENERAL, DOORDARSHAN
DIRECTOR GENERAL, AIR
PIB MOES
UNI
D.G. NATIONAL DISASTER RESPONSE FORCE (NDRF)
CHIEF SECRETARY, GOVT.OF WEST BENGAL
CHIEF SECRETARY, GOVT.OF TRIPURA
CHIEF SECRETARY, GOVT.OF MANIPUR
CHIEF SECRETARY, GOVT.OF MIZORAM
CHIEF SECRETARY, ANDAMAN & NICOBAR ISLANDS

Sub: Depression over Central Bay of Bengal

Latest observations & satellite imagery indicate that a depression has formed over central Bay of Bengal and lay centred at 0530 hrs IST of today, the 28th May, 2017 near Latitude 14.0° N and Longitude 88.5 °E, about 950 km south of Kolkata and 980 km and south-southwest of Chittagong. The system is very likely to move north-northeastwards and reach Bangladesh coast by 30th May 2017 forenoon. It is very likely to intensify into a deep depression during next 24 hours.

Warning:

- (i) **Wind warning:** Squally winds speed reaching 40-50 kmph gusting to 60 kmph would prevail along & off Andaman Islands and adjoining Sea areas during next 48 hours.
- (ii) **Sea condition:** Sea condition would be rough to very rough along & off Andaman Islands during next 48 hours.
- (iii) **Fishermen Warning:** Fishermen are advised not to venture into sea along & off Andaman Islands during next 48 hrs. Fishermen out at sea are advised to return to the coast

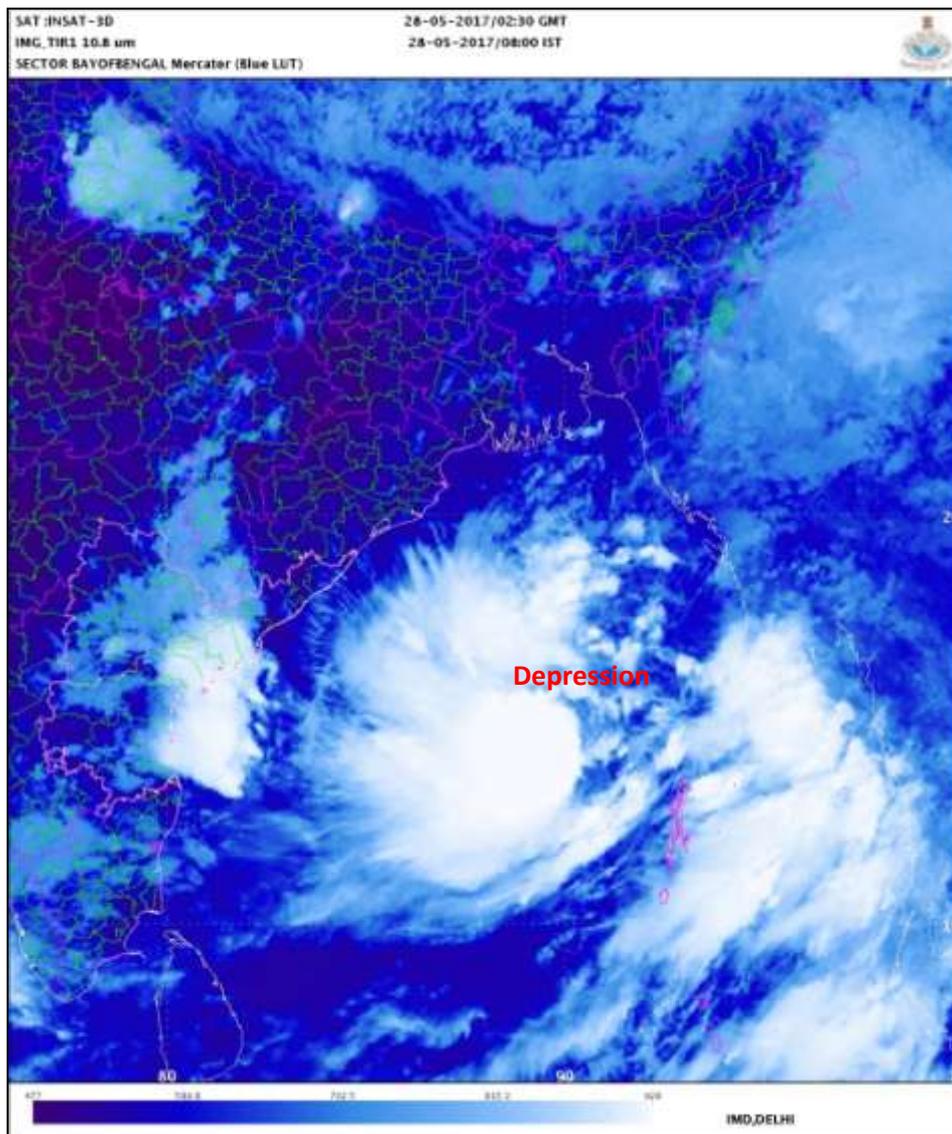
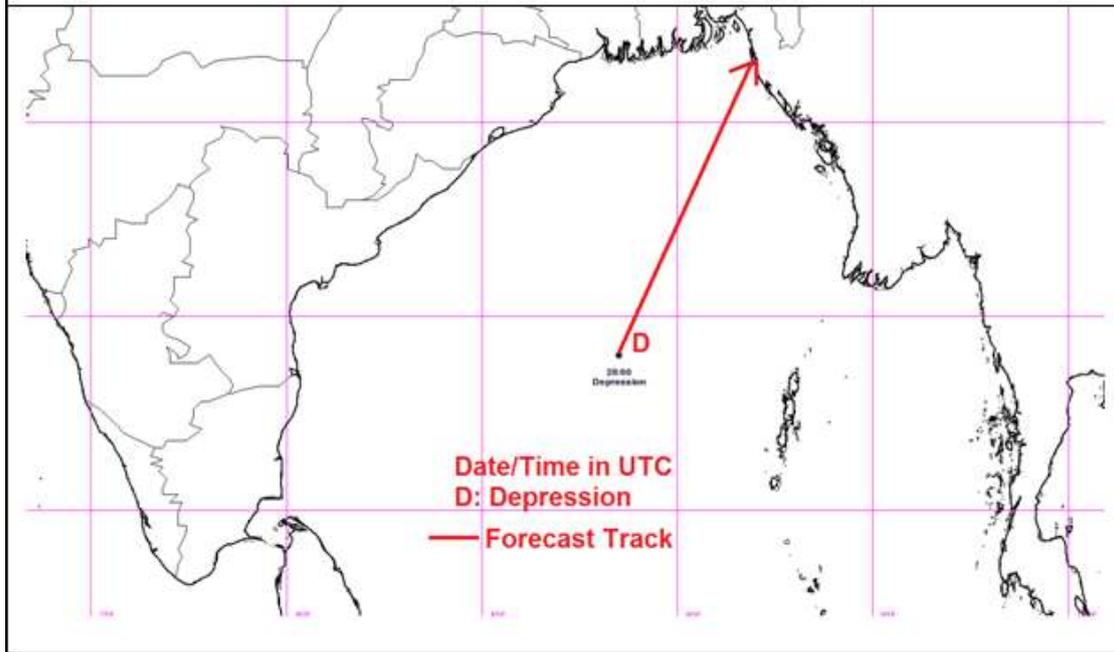
The next bulletin will be issued at 1130 hrs IST of 28th May 2016.

(Naresh Kumar)
Scientist-D
RSMC, New Delhi

Copy to: DFDD, Pune/ACWC Kolkata /ACWC Chennai/CWC Vishakhapatnam/CWC Bhubaneswar/MC Hyderabad.

Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
Rainfall amount (mm): Heavy rain: 64.5 – 124.4, Very heavy rain: 124.5 – 244.4, Extremely heavy rain: 244.5 or more.

OBSERVED POSITION AND FORECAST TRACK OF DEPRESSION OVER BAY OF BENGAL BASED ON 0000 UTC OF 28TH MAY, 2017



Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
Rainfall amount (mm): Heavy rain: 64.5 – 124.4, Very heavy rain: 124.5 – 244.4, Extremely heavy rain: 244.5 or more.



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

BULLETIN NO.: 02 (BOB 02/2017)

TIME OF ISSUE: 1200 HOURS IST

DATED: 28.05.2017

FROM: INDIA METEOROLOGICAL DEPARTMENT

**TO: CONTROL ROOM, NDM, MINISTRY OF HOME AFFAIRS
CONTROL ROOM NDMA
CABINET SECRETARIAT
PS TO HON'BLE MINISTER FOR S & T AND EARTH SCIENCES
SECRETARY, MOES,
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CHIEF SECRETARY, GOVT.OF TRIPURA
CHIEF SECRETARY, GOVT.OF MANIPUR
CHIEF SECRETARY, GOVT.OF MIZORAM
CHIEF SECRETARY, ANDAMAN & NICOBAR ISLANDS**

Sub: Depression over eastcentral Bay of Bengal

The depression over central Bay of Bengal moved east-northeastwards with a speed of 40 kmph during past 3 hours and lay centred at 0830 hrs IST of today, the 28th May, 2017 over eastcentral Bay of Bengal near Latitude 14.5° N and Longitude 89.5°E, about 900 km nearly south-southeast of Kolkata and 890 km south-southwest of Chittagong. The system is very likely to move north-northeastwards and cross Bangladesh coast between longitude 91.0 °E and 92.0°E around 30th May 2017 noon. It is very likely to intensify into a deep depression during next 12 hours and into a cyclonic storm during subsequent 24 hours.

Warning:

(iv) Heavy Rainfall Warning:

30th May 2017: Rainfall at most places with heavy to very heavy rainfall at isolated places very likely over south Assam, Meghalaya, Tripura and Mizoram; and heavy rainfall at isolated places over Arunachal Pradesh and Nagaland.

31st May 2017: Rainfall at most places with heavy to very heavy rainfall at a few places and isolated extremely heavy rainfall very likely over Assam & Meghalaya. Rainfall at most places with heavy to very heavy rainfall at isolated places very likely over Tripura, Mizoram, Manipur, Nagaland and Arunachal Pradesh.

(v) Wind warning: Squally winds speed reaching 40-50 kmph gusting to 60 kmph would prevail along & off Andaman Islands and adjoining Sea areas during next 48 hours. Squally winds speed reaching 45-55 kmph gusting to 65 kmph would prevail over South Assam, Meghalaya, Mizoram, Manipur and Tripura on 30th May and along & off West Bengal coast on 29th & 30th.

(vi) Sea condition: Sea condition would be rough to very rough along & off Andaman Islands during next 48 hours and along & off West Bengal Coast on 30th.

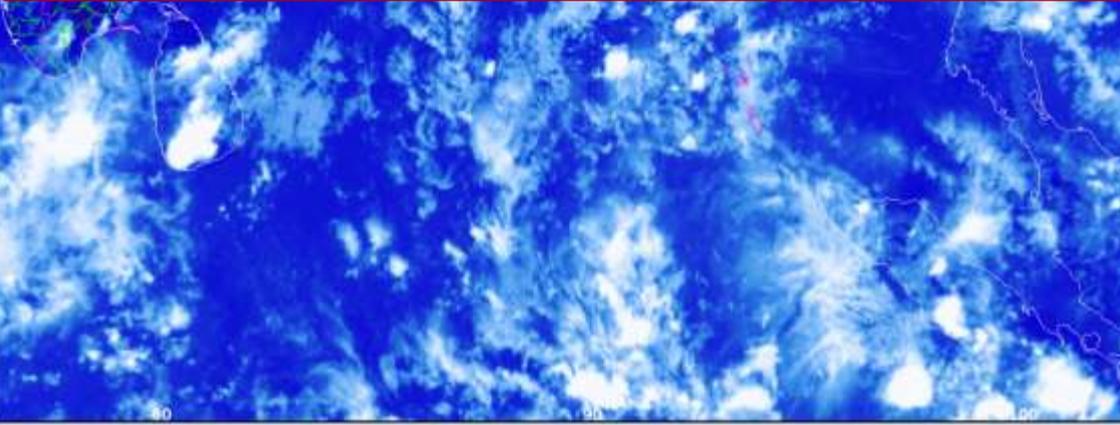
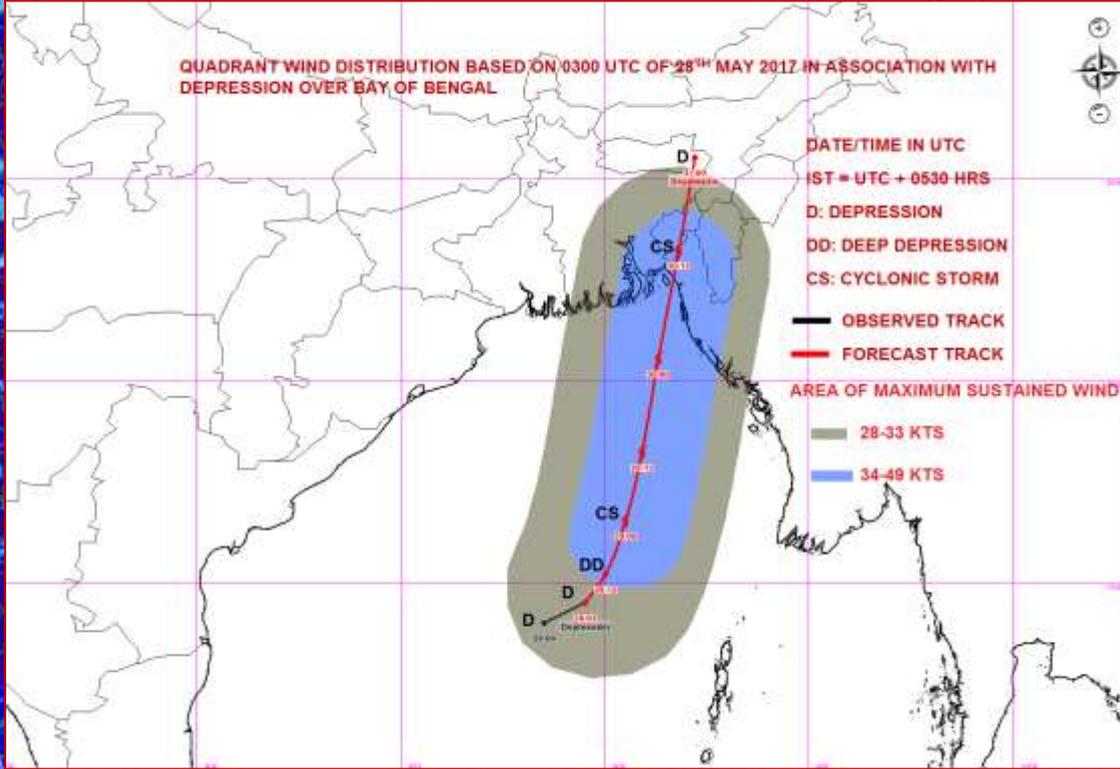
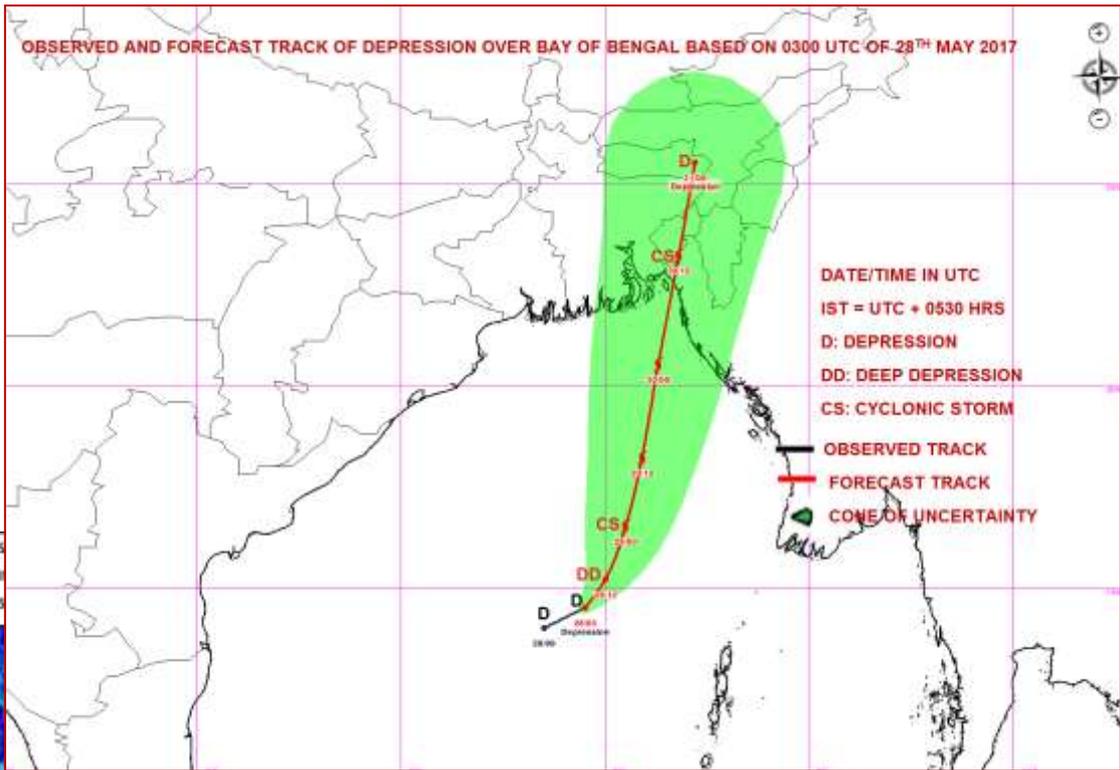
(vii) Fishermen Warning: Fishermen are advised not to venture into sea along & off Andaman Islands during next 48 hrs. Fishermen along & off West Bengal Coast are advised not to venture into sea on 29th & 30th May and those out at sea are advised to return to the coast.

The next bulletin will be issued at 1430 hrs IST of 28th May 2016.

**(Naresh Kumar)
Scientist-D, RSMC, New Delhi**

Copy to: DFDD, Pune/ACWC Kolkata /ACWC Chennai/CWC Vishakhapatnam/CWC Bhubaneswar/MC Hyderabad.

Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
Rainfall amount (mm): Heavy rain: 64.5 – 124.4, Very heavy rain: 124.5 – 244.4, Extremely heavy rain: 244.5 or more.



Rainfall an

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Depression

Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
Rainfall amount (mm): Heavy rain: 64.5 – 124.4, Very heavy rain: 124.5 – 244.4, Extremely heavy rain: 244.5 or more.



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(Ministry of Earth Sciences)**

BULLETIN NO.: 03 (BOB 02/2017)

TIME OF ISSUE: 1400 HOURS IST

DATED: 28.05.2017

FROM: INDIA METEOROLOGICAL DEPARTMENT

**TO: CONTROL ROOM, NDM, MINISTRY OF HOME AFFAIRS
CONTROL ROOM NDMA
CABINET SECRETARIAT
PS TO HON'BLE MINISTER FOR S & T AND EARTH SCIENCES
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CHIEF SECRETARY, GOVT.OF MANIPUR
CHIEF SECRETARY, GOVT.OF MIZORAM
CHIEF SECRETARY, ANDAMAN & NICOBAR ISLANDS**

Sub: Depression over eastcentral Bay of Bengal

The depression over eastcentral Bay of Bengal moved nearly northeastwards with a speed of 32 kmph during past 06 hours and lay centred at 1130 hrs IST of today, the 28th May, 2017 over eastcentral Bay of Bengal near Latitude 15.0° N and Longitude 90.0°E, about 850 km nearly south-southeast of Kolkata and 830 km south-southwest of Chittagong. The system is very likely to move north-northeastwards and cross Bangladesh coast between longitude 91.0 °E and 92.0°E around 30th May 2017 noon. It is very likely to intensify into a deep depression during next 12 hours and into a cyclonic storm during subsequent 24 hours.

Warning:

(viii) Heavy Rainfall Warning:

30th May 2017: Rainfall at most places with heavy to very heavy rainfall at isolated places very likely over south Assam, Meghalaya, Tripura and Mizoram; and heavy rainfall at isolated places over Arunachal Pradesh and Nagaland.

31st May 2017: Rainfall at most places with heavy to very heavy rainfall at a few places and isolated extremely heavy rainfall very likely over Assam & Meghalaya. Rainfall at most places with heavy to very heavy rainfall at isolated places very likely over Tripura, Mizoram, Manipur, Nagaland and Arunachal Pradesh.

(ix) Wind warning: Squally winds speed reaching 40-50 kmph gusting to 60 kmph would prevail along & off Andaman Islands and adjoining Sea areas during next 48 hours. Squally winds speed reaching 45-55 kmph gusting to 65 kmph would prevail over South Assam, Meghalaya, Mizoram, Manipur and Tripura on 30th May and along & off West Bengal coast on 29th & 30th.

(x) Sea condition: Sea condition would be rough to very rough along & off Andaman Islands during next 48 hours and along & off West Bengal Coast on 30th.

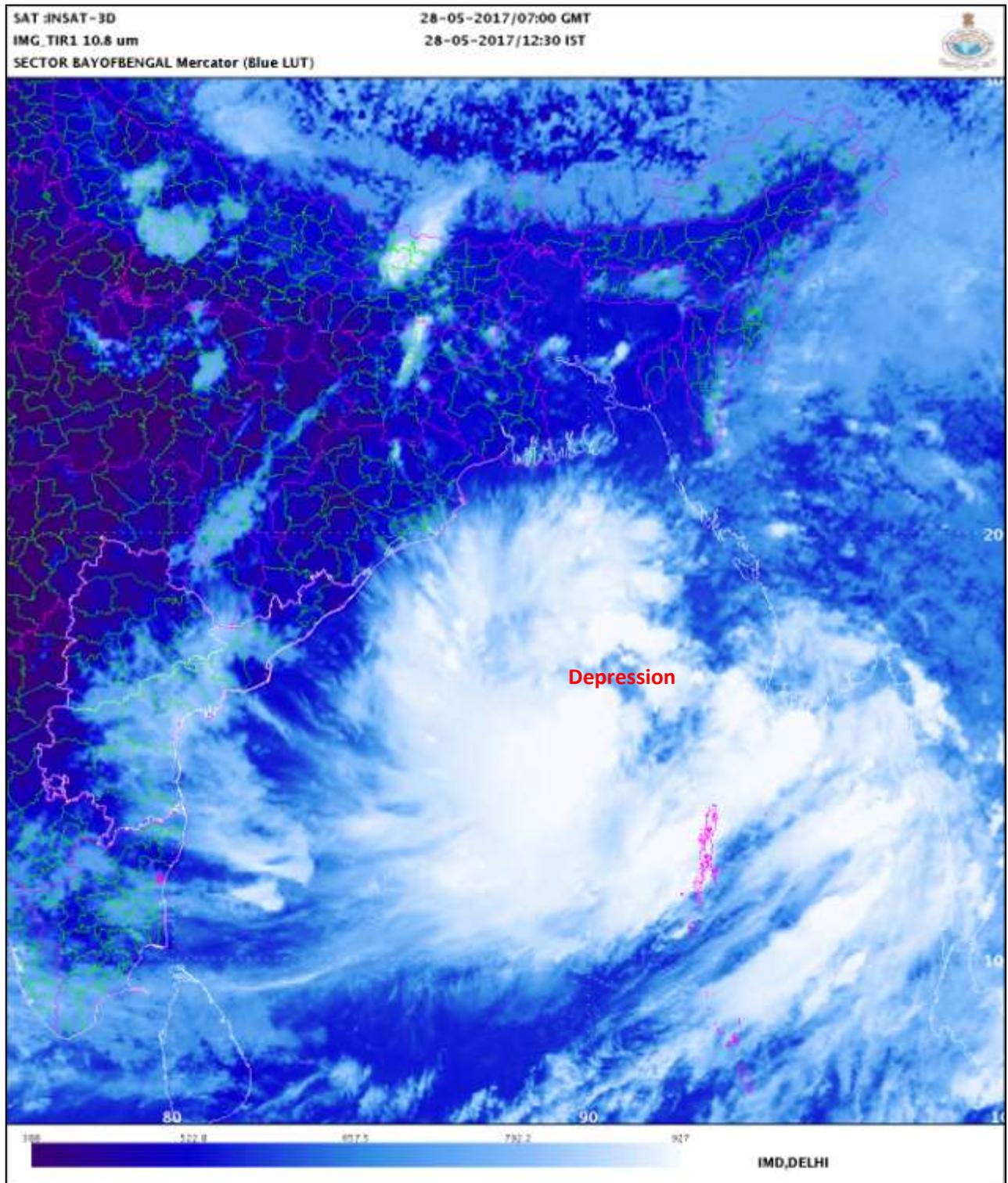
(xi) Fishermen Warning: Fishermen are advised not to venture into sea along & off Andaman Islands during next 48 hrs. Fishermen along & off West Bengal Coast are advised not to venture into sea on 29th & 30th May and those out at sea are advised to return to the coast.

The next bulletin will be issued at 2030 hrs IST of 28th May 2016.

**(Naresh Kumar)
Scientist-D, RSMC, New Delhi**

Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
Rainfall amount (mm): Heavy rain: 64.5 – 124.4, Very heavy rain: 124.5 – 244.4, Extremely heavy rain: 244.5 or more.

Copy to: DFDD, Pune/ACWC Kolkata /ACWC Chennai/CWC Vishakhapatnam/CWC Bhubaneswar/MC Hyderabad.



Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
Rainfall amount (mm): Heavy rain: 64.5 – 124.4, Very heavy rain: 124.5 – 244.4, Extremely heavy rain: 244.5 or more.



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BULLETIN NO.: 04 (BOB 02/2017)

TIME OF ISSUE: 1730 HOURS IST

DATED: 28.05.2017

FROM: INDIA METEOROLOGICAL DEPARTMENT

TO: CONTROL ROOM, NDM, MINISTRY OF HOME AFFAIRS

CONTROL ROOM NDMA

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CHIEF SECRETARY, GOVT.OF MANIPUR

CHIEF SECRETARY, GOVT.OF MIZORAM

CHIEF SECRETARY, ANDAMAN & NICOBAR ISLANDS

Sub: Depression intensified into deep depression over eastcentral Bay of Bengal

The depression over eastcentral Bay of Bengal moved northeastwards during past 06 hours with a speed of 24 kmph, intensified into a deep depression and lay centred at 1430 hrs IST of today, the 28th May, 2017 over eastcentral Bay of Bengal near Latitude 15.4°N and Longitude 90.5°E, about 820 km nearly south-southeast of Kolkata and 770 km south-southwest of Chittagong. The system is very likely to move north-northeastwards and cross Bangladesh coast between longitude 91.0 °E and 92.0°E near Chittagong around 30th May 2017 noon. It is very likely to intensify into a cyclonic storm during next 24 hours.

Observed and forecast track positions and intensity of the system are given below.

Date/time(IST)	Position (lat. °N/ long. °E)	Maximum sustained surface wind speed (kmph)	Category of cyclonic Disturbance
28.05.2017/1430	15.4/90.5	50-60 gusting to 70	Deep Depression
28.05.2017/1730	15.7/90.7	55-65 gusting to 75	Deep Depression
28.05.2017/2330	16.0/90.9	65-75 gusting to 85	Cyclonic Storm
29.05.2017/0530	16.7/91.1	75-85 gusting to 95	Cyclonic Storm
29.05.2017/1130	17.5/91.3	80-90 gusting to 100	Cyclonic Storm
29.05.2017/2330	19.7/91.4	90-100 gusting to 110	Severe Cyclonic Storm
30.05.2017/1130	22.3/91.7	90-100 gusting to 110	Severe Cyclonic Storm
30.05.2017/2330	24.7/92.3	45-55 gusting to 65	Depression
31.05.2017/1130	27.0/93.3	25-35 gusting to 45	Well Marked Low

Warning:

(xii) Heavy Rainfall Warning:

30th May 2017: Rainfall at most places with heavy to very heavy rainfall at a few places and isolated extremely heavy rainfall very likely over Assam & Meghalaya. Rainfall at most places with heavy to very heavy rainfall at isolated places very likely over Tripura, Mizoram, Manipur, Nagaland and Arunachal Pradesh.

Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%

Rainfall amount (mm): Heavy rain: 64.5 – 124.4, Very heavy rain: 124.5 – 244.4, Extremely heavy rain: 244.5 or more.

31st May 2017: Rainfall at most places with heavy to very heavy rainfall at isolated places very likely over Assam & Meghalaya, Tripura, Mizoram, Manipur, Nagaland and Arunachal Pradesh.

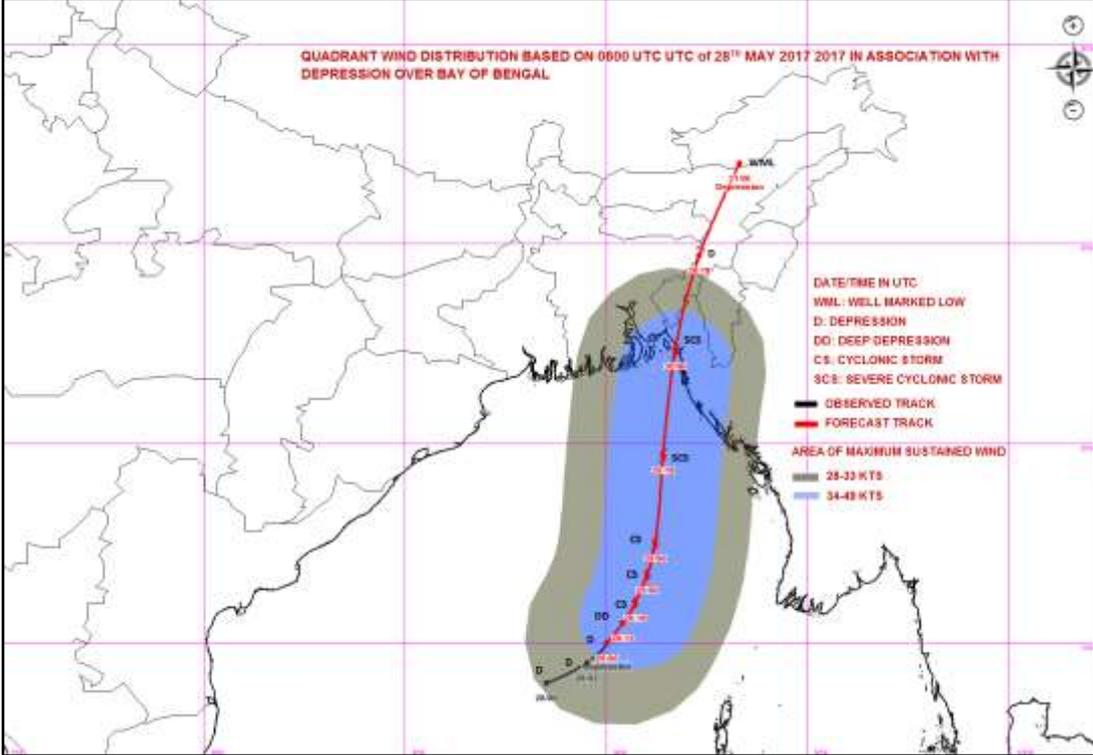
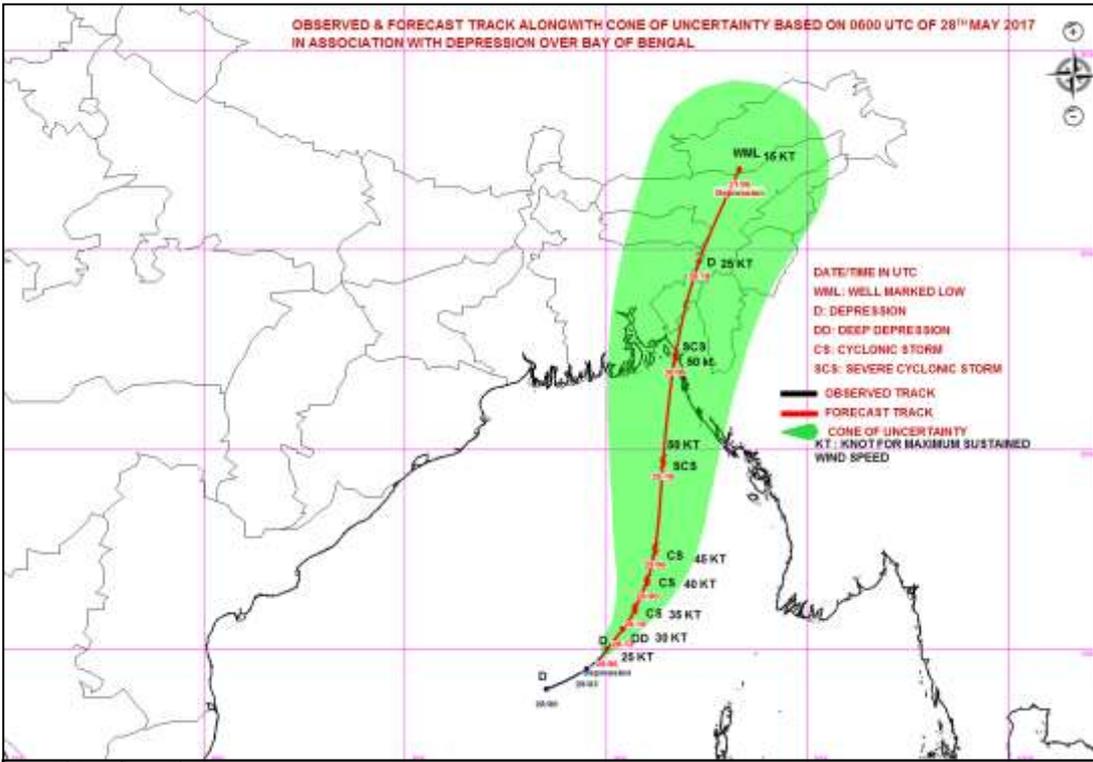
- (xiii) **Wind warning:** Squally winds speed reaching 40-50 kmph gusting to 60 kmph would prevail along & off Andaman Islands and adjoining Sea areas during next 48 hours. Squally winds speed reaching 45-55 kmph gusting to 65 kmph would prevail over South Assam, Meghalaya, Mizoram, Manipur and Tripura on 30th May and along & off West Bengal coast on 29th & 30th.
- (xiv) **Sea condition:** Sea condition would be rough to very rough along & off Andaman Islands during next 48 hours and along & off West Bengal Coast on 30th.
- (xv) **Fishermen Warning:** Fishermen are advised not to venture into sea along & off Andaman Islands during next 48 hrs. Fishermen along & off West Bengal Coast are advised not to venture into sea on 29th & 30th May and those out at sea are advised to return to the coast.

The next bulletin will be issued at 2030 hrs IST of 28th May 2016.

(Naresh Kumar)
Scientist-D, RSMC, New Delhi

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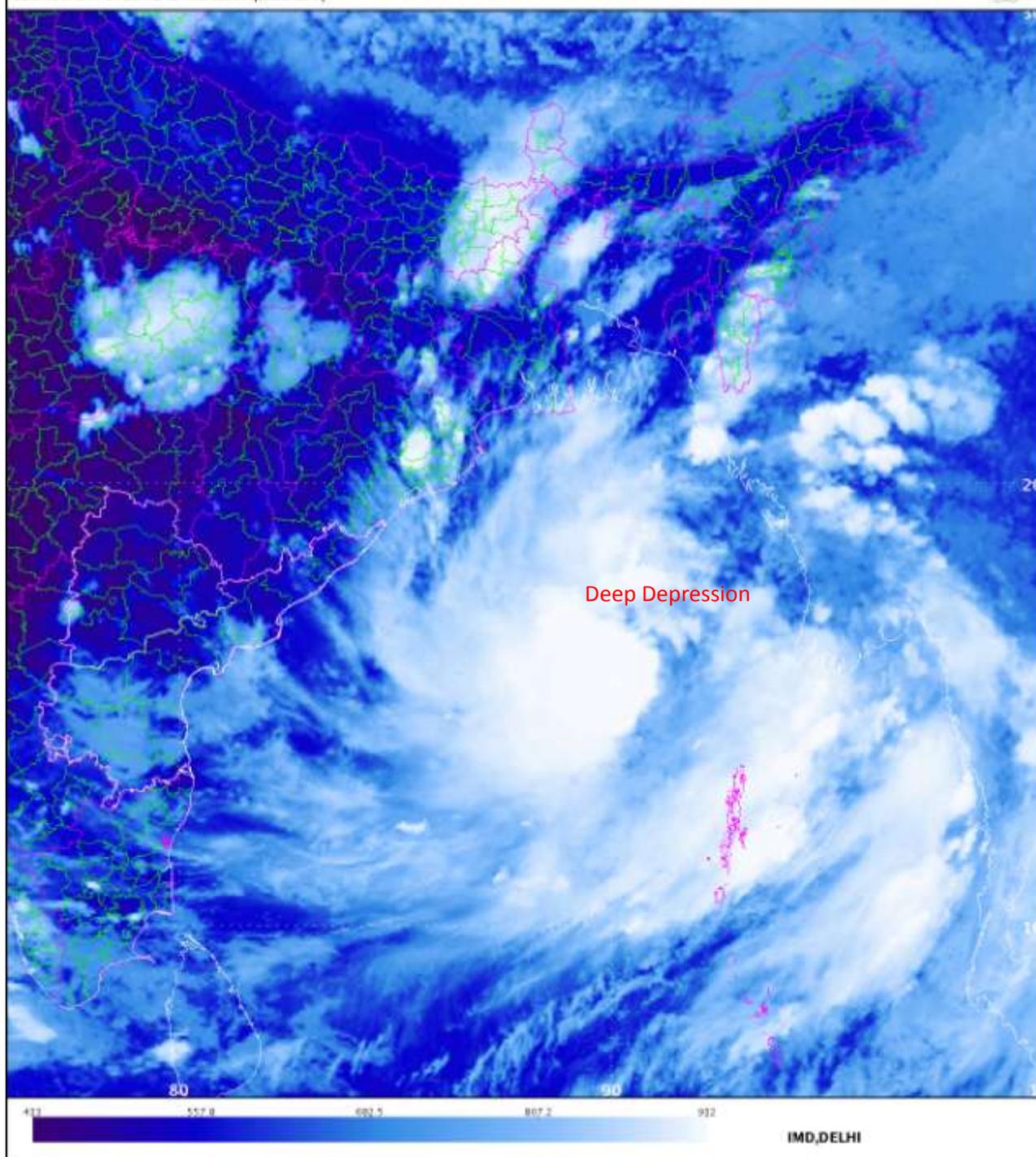
Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
Rainfall amount (mm): Heavy rain: 64.5 – 124.4, Very heavy rain: 124.5 – 244.4, Extremely heavy rain: 244.5 or more.



Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
 Rainfall amount (mm): Heavy rain: 64.5 – 124.4, Very heavy rain: 124.5 – 244.4, Extremely heavy rain: 244.5 or more.

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SECTOR BAYOFBENGAL Mercator (Blue LUT)

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



Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
Rainfall amount (mm): Heavy rain: 64.5 – 124.4, Very heavy rain: 124.5 – 244.4, Extremely heavy rain: 244.5 or more.



**India Meteorological Department
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(Ministry of Earth Sciences)**

BULLETIN NO.: 05 (BOB 02/2017)

TIME OF ISSUE: 2000 HOURS IST

DATED: 28.05.2017

FROM: INDIA METEOROLOGICAL DEPARTMENT

TO: CONTROL ROOM, NDM, MINISTRY OF HOME AFFAIRS

CONTROL ROOM NDMA

CABINET SECRETARIAT

PS TO HON'BLE MINISTER FOR S & T AND EARTH SCIENCES

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SECRETARY, DST

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CHIEF SECRETARY, GOVT.OF MANIPUR

CHIEF SECRETARY, GOVT.OF MIZORAM

CHIEF SECRETARY, ANDAMAN & NICOBAR ISLANDS

Sub: Deep depression over eastcentral Bay of Bengal

The deep depression over eastcentral Bay of Bengal moved further northeastwards during past 06 hours with a speed of 18 kmph and lay centred at 1730 hrs IST of today, the 28th May, 2017 over eastcentral Bay of Bengal near Latitude 15.7°N and Longitude 90.7°E, about 800 km nearly south-southeast of Kolkata and 740 km south-southwest of Chittagong. The system is very likely to intensify into a cyclonic storm during next 24 hours. It is very likely to move north-northeastwards and cross Bangladesh coast between longitude 91.0°E and 92.0°E near Chittagong around 30th May 2017 noon.

Observed and forecast track positions and intensity of the system are given below.

Date/time(IST)	Position (lat. °N/ long. °E)	Maximum sustained surface wind speed (kmph)	Category of cyclonic Disturbance
28.05.2017/1730	15.7/90.7	55-65 gusting to 75	Deep Depression
28.05.2017/2330	16.0/90.9	60-70 gusting to 80	Cyclonic Storm
29.05.2017/0530	16.7/91.1	70-80 gusting to 90	Cyclonic Storm
29.05.2017/1130	17.5/91.3	80-90 gusting to 100	Cyclonic Storm
29.05.2017/1730	18.6/91.4	90-100 gusting to 110	Severe Cyclonic Storm
30.05.2017/0530	21.0/91.6	90-100 gusting to 110	Severe Cyclonic Storm
30.05.2017/1730	23.5/92.0	60-70 gusting to 80	Cyclonic Storm
31.05.2017/0530	25.9/92.8	35-45 gusting to 55	Depression

Warning:

(xvi) Heavy Rainfall Warning:

30th May 2017: Rainfall at most places with heavy to very heavy rainfall at a few places and isolated extremely heavy rainfall very likely over Assam & Meghalaya. Rainfall at most places with heavy to very heavy rainfall at isolated places very likely over Tripura, Mizoram, Manipur, Nagaland and Arunachal Pradesh.

31st May 2017: Rainfall at most places with heavy to very heavy rainfall at isolated places very likely over Assam & Meghalaya, Tripura, Mizoram, Manipur, Nagaland and Arunachal Pradesh.

Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%

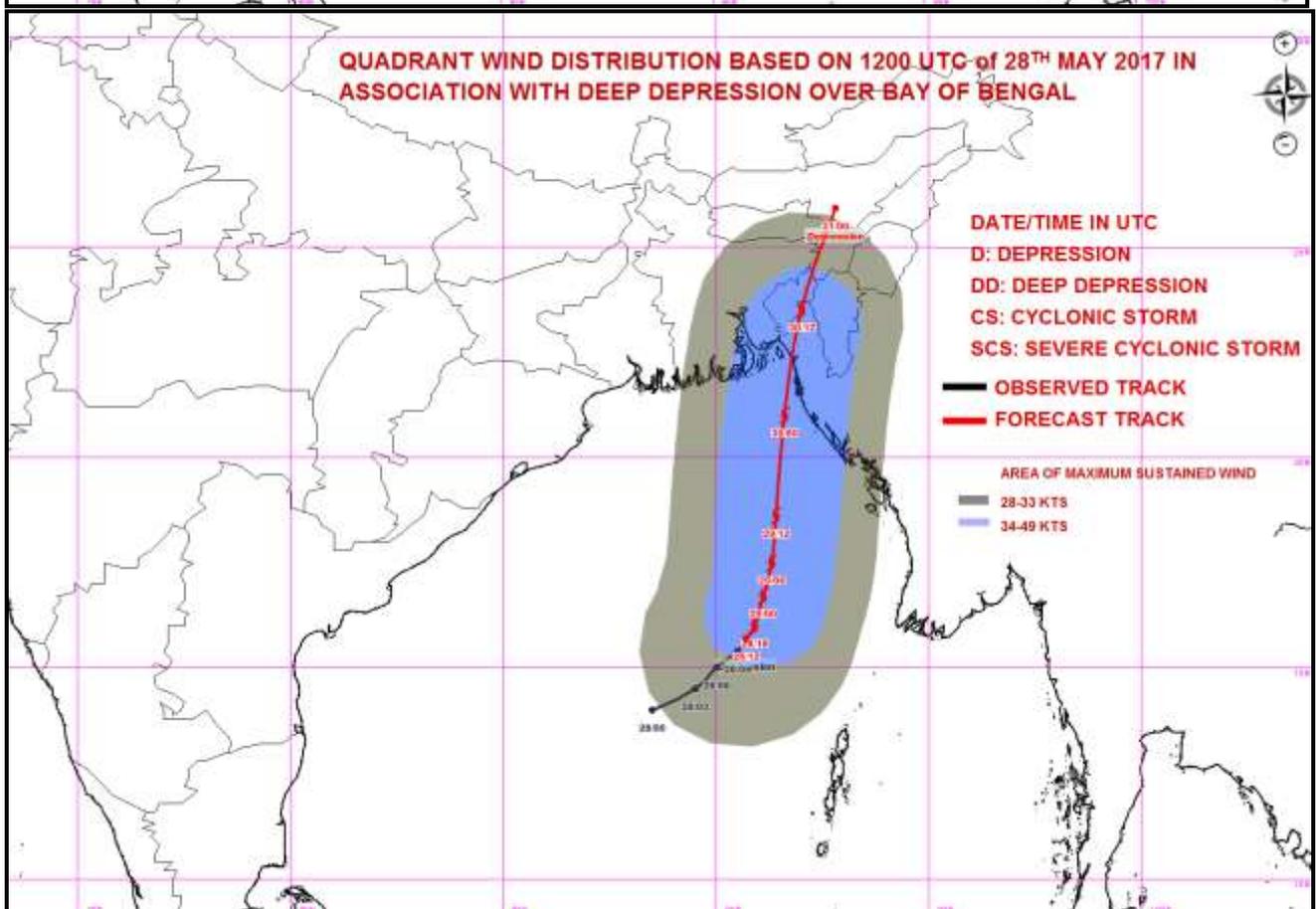
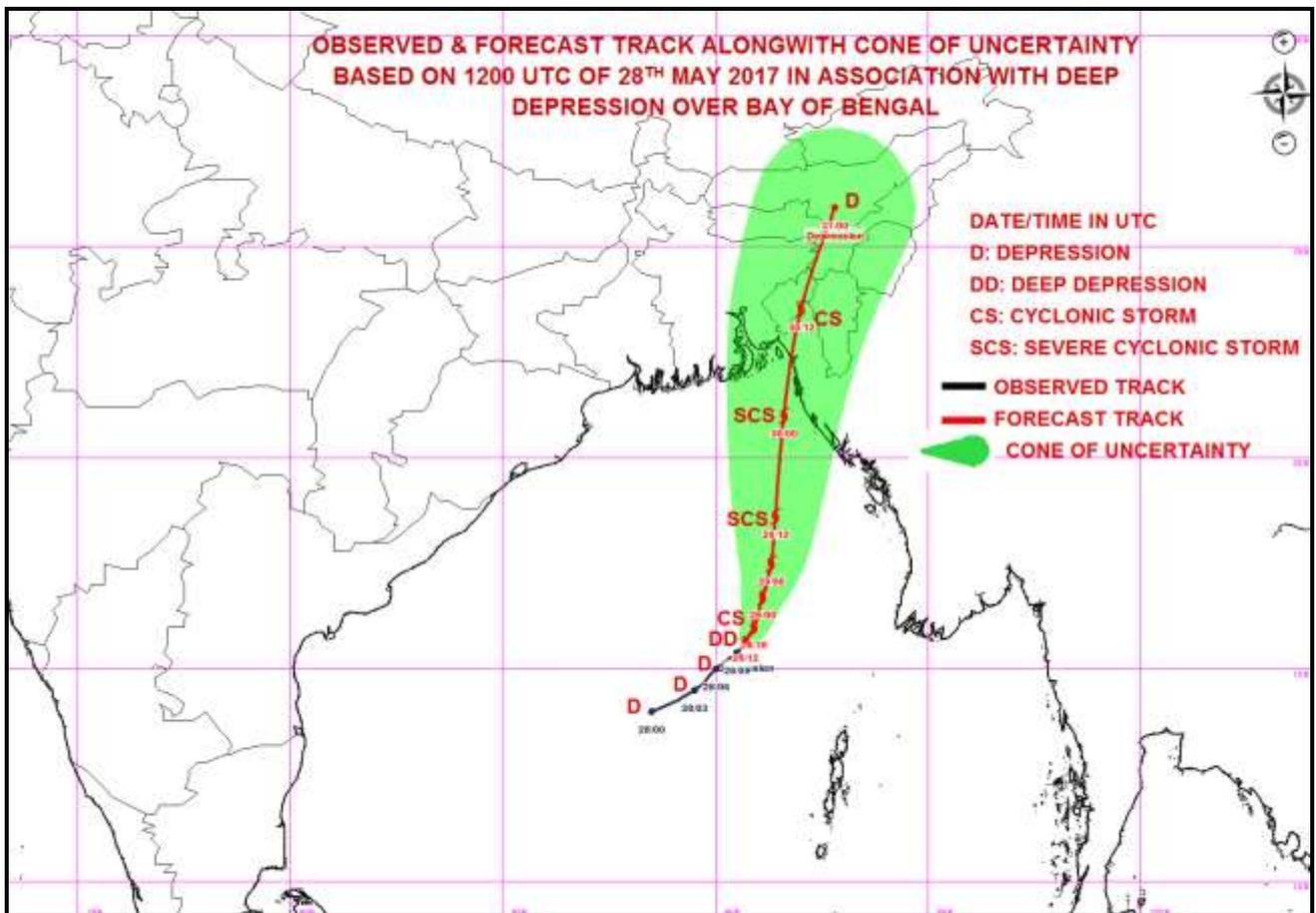
Rainfall amount (mm): Heavy rain: 64.5 – 124.4, Very heavy rain: 124.5 – 244.4, Extremely heavy rain: 244.5 or more.

- (xvii) **Wind warning:** Squally winds speed reaching 40-50 kmph gusting to 60 kmph would prevail along & off Andaman Islands and adjoining Sea areas during next 48 hours. Squally winds speed reaching 45-55 kmph gusting to 65 kmph would prevail over South Assam, Meghalaya, Mizoram, Manipur and Tripura on 30th May and along & off West Bengal coast on 29th & 30th.
- (xviii) **Sea condition:** Sea condition would be rough to very rough along & off Andaman Islands during next 48 hours and along & off West Bengal Coast on 30th.
- (xix) **Fishermen Warning:** Fishermen are advised not to venture into sea along & off Andaman Islands during next 48 hrs. Fishermen along & off West Bengal Coast are advised not to venture into sea on 29th & 30th May and those out at sea are advised to return to the coast.

The next bulletin will be issued at 0230 hrs IST of 29th May 2016.

(Naresh Kumar)
Scientist-D, RSMC, New Delhi

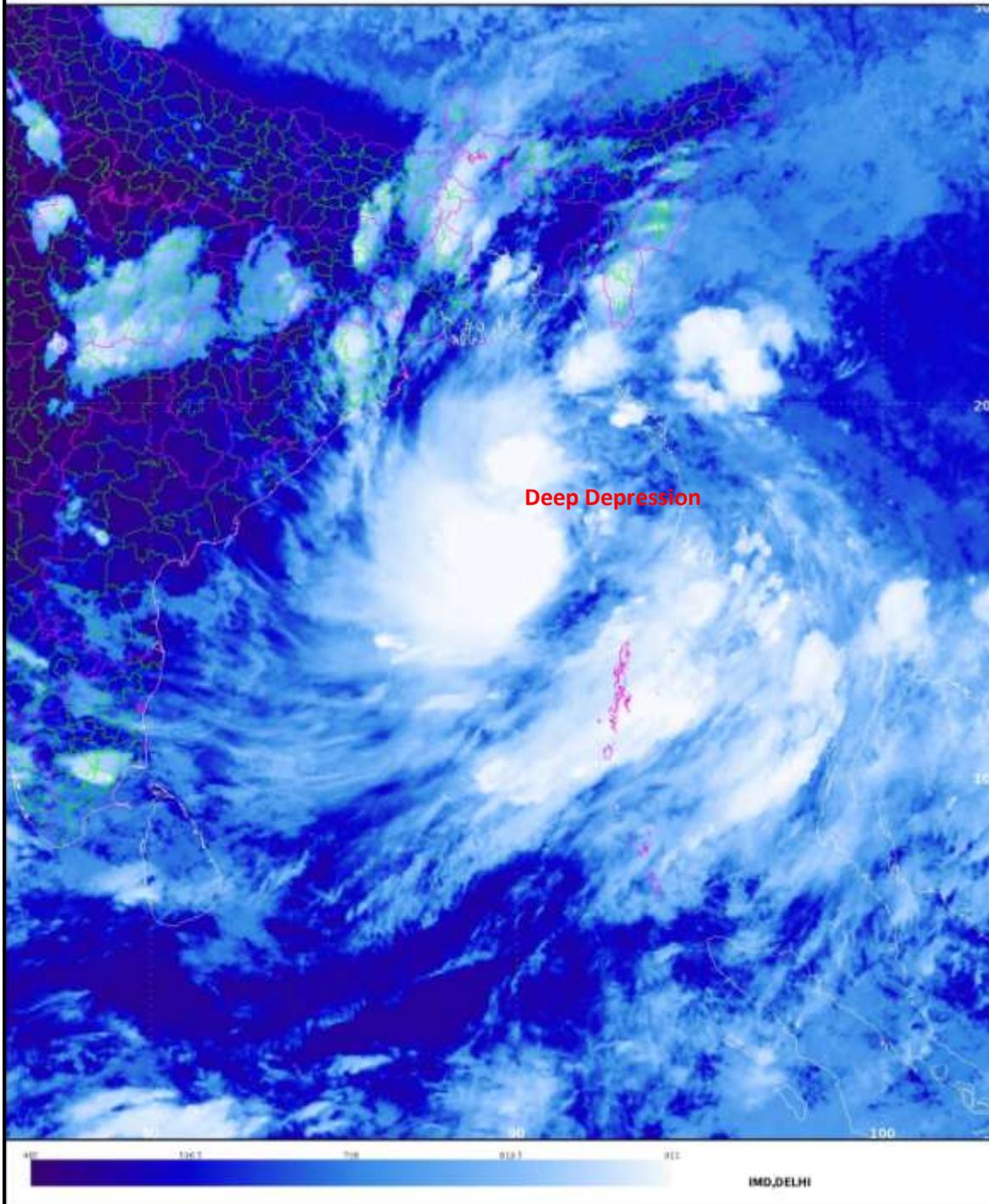
Copy to: DFDD, Pune/ACWC Kolkata /ACWC Chennai/CWC Vishakhapatnam/CWC
Bhubaneswar/MC Hyderabad.



Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
 Rainfall amount (mm): Heavy rain: 64.5 – 124.4, Very heavy rain: 124.5 – 244.4, Extremely heavy rain: 244.5 or more.

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SECTOR BAYOFBENGAL Mercator (Blue LUT)

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



Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
Rainfall amount (mm): Heavy rain: 64.5 – 124.4, Very heavy rain: 124.5 – 244.4, Extremely heavy rain: 244.5 or more.



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

BULLETIN NO.: 06 (BOB 02/2017)

TIME OF ISSUE: 2330 HOURS IST

DATED: 28.05.2017

FROM: INDIA METEOROLOGICAL DEPARTMENT

**TO: CONTROL ROOM, NDM, MINISTRY OF HOME AFFAIRS
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CABINET SECRETARIAT
PS TO HON'BLE MINISTER FOR S & T AND EARTH SCIENCES
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CHIEF SECRETARY, GOVT.OF MIZORAM
CHIEF SECRETARY, ANDAMAN & NICOBAR ISLANDS**

Sub: Deep Depression intensify into a Cyclonic Storm 'MORA'

The Deep Depression over eastcentral Bay of Bengal moved northeastward during past 06 hours with a speed of 14 kmph, intensified into a cyclonic storm '**MORA**' and lay centred at 2030 hrs IST of today, 28th May, 2017 over eastcentral Bay of Bengal near Latitude 16.0°N and Longitude 91.0°E, about 770 km nearly south-southeast of Kolkata and 700 km south-southwest of Chittagong. The system is likely to intensify further into a severe cyclonic storm during next 24 hours. It is very likely to move north-northeastwards and cross Bangladesh coast between longitude 91.0°E and 92.0°E near Chittagong around 30th May 2017 forenoon.

Observed and forecast track positions and intensity of the system are given below.

Date/time(IST)	Position (lat. °N/ long. °E)	Maximum sustained surface wind speed (kmph)	Category of cyclonic Disturbance
28.05.2017/2030	16.0/91.0	60-70 gusting to 80	Cyclonic Storm
28.05.2017/2330	16.3/91.2	65-75 gusting to 85	Cyclonic Storm
29.05.2017/0530	17.1/91.4	75-85 gusting to 95	Cyclonic Storm
29.05.2017/1130	18.0/91.5	80-90 gusting to 100	Cyclonic Storm
29.05.2017/1730	19.1/91.6	90-100 gusting to 110	Severe Cyclonic Storm
30.05.2017/0530	21.4/91.8	95-105 gusting to 115	Severe Cyclonic Storm
30.05.2017/1730	23.4/92.1	60-70 gusting to 80	Cyclonic Storm
31.05.2017/0530	26.1/93.0	35-45 gusting to 55	Depression

Warning:

(i) Heavy Rainfall Warning:

30th May 2017: Rainfall at most places with heavy to very heavy rainfall at a few places and isolated extremely heavy rainfall very likely over Assam & Meghalaya. Rainfall at most places with heavy to very heavy rainfall at isolated places very likely over Tripura, Mizoram, Manipur, Nagaland and Arunachal Pradesh.

Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%

Rainfall amount (mm): Heavy rain: 64.5 – 124.4, Very heavy rain: 124.5 – 244.4, Extremely heavy rain: 244.5 or more.

31st May 2017: Rainfall at most places with heavy to very heavy rainfall at isolated places very likely over Assam & Meghalaya, Tripura, Mizoram, Manipur, Nagaland and Arunachal Pradesh.

- (ii) **Wind warning:** Squally winds speed reaching 40-50 kmph gusting to 60 kmph would prevail along & off Andaman Islands and adjoining Sea areas during next 48 hours. Squally winds speed reaching 45-55 kmph gusting to 65 kmph would prevail over South Assam, Meghalaya, Mizoram, Manipur and Tripura on 30th May and along & off West Bengal coast on 29th & 30th.
- (iii) **Sea condition:** Sea condition would be rough to very rough along & off Andaman Islands during next 48 hours and along & off West Bengal Coast on 30th.
- (iv) **Fishermen Warning:** Fishermen are advised not to venture into sea along & off Andaman Islands during next 48 hrs. Fishermen along & off West Bengal Coast are advised not to venture into sea on 29th & 30th May and those out at sea are advised to return to the coast.

The next bulletin will be issued at 0230 hrs IST of 29th May 2016.

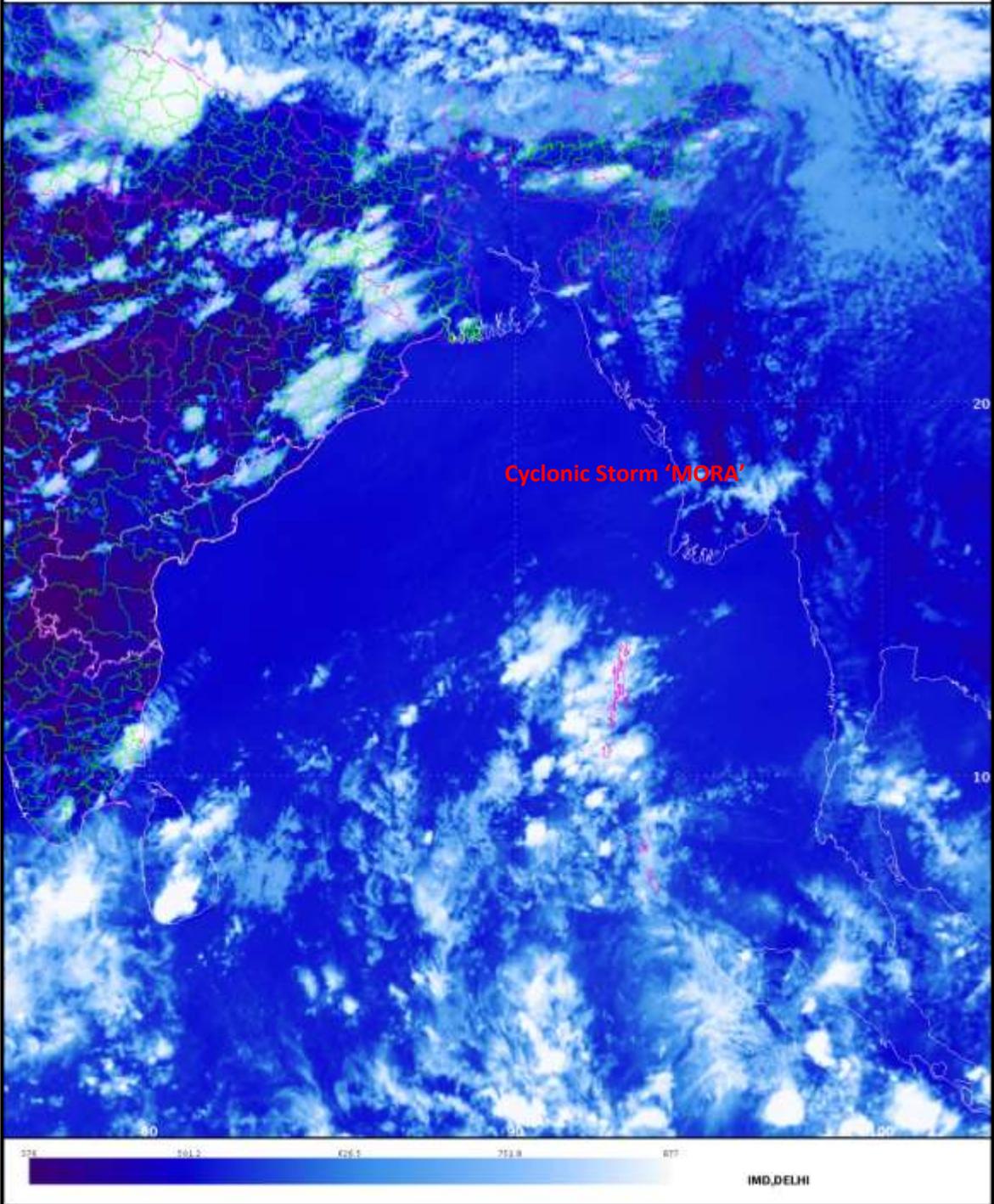
(Shobhit Katiyar)
Scientist-B, RSMC, New Delhi

Copy to: DFDD, Pune/ACWC Kolkata /ACWC Chennai/CWC Vishakhapatnam/CWC Bhubaneswar/MC Hyderabad.

Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
Rainfall amount (mm): Heavy rain: 64.5 – 124.4, Very heavy rain: 124.5 – 244.4, Extremely heavy rain: 244.5 or more.

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SECTOR BAYOFBENGAL Mercator (Blue LUT)

09-04-2018/08:30 GMT
09-04-2018/14:00 IST



Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
Rainfall amount (mm): Heavy rain: 64.5 – 124.4, Very heavy rain: 124.5 – 244.4, Extremely heavy rain: 244.5 or more.



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

BULLETIN NO.: 07 (BOB 02/2017)

TIME OF ISSUE: 0200 HOURS IST

DATED: 29.05.2017

FROM: INDIA METEOROLOGICAL DEPARTMENT

**TO: CONTROL ROOM, NDM, MINISTRY OF HOME AFFAIRS
CONTROL ROOM NDMA
CABINET SECRETARIAT
PS TO HON'BLE MINISTER FOR S & T AND EARTH SCIENCES
SECRETARY, MOES,
SECRETARY, DST
H.Q. (INTEGRATED DEFENCE STAFF AND CDS)
DIRECTOR GENERAL, DOORDARSHAN
DIRECTOR GENERAL, AIR
PIB MOES
UNI
D.G. NATIONAL DISASTER RESPONSE FORCE (NDRF)
CHIEF SECRETARY, GOVT.OF WEST BENGAL
CHIEF SECRETARY, GOVT.OF TRIPURA
CHIEF SECRETARY, GOVT.OF MANIPUR
CHIEF SECRETARY, GOVT.OF MIZORAM
CHIEF SECRETARY, ANDAMAN & NICOBAR ISLANDS**

Sub: Cyclonic Storm 'MORA' over eastcentral Bay of Bengal

The cyclonic storm '**MORA**' over eastcentral Bay of Bengal moved northeastward during past 06 hours with a speed of 14 kmph and lay centred at 2330 hrs IST of today, 28th May, 2017 over eastcentral Bay of Bengal near Latitude 16.3°N and Longitude 91.2°E, about 750 km nearly south-southeast of Kolkata and 660 km south-southwest of Chittagong. The system is likely to intensify further into a severe cyclonic storm during next 24 hours. It is very likely to move north-northeastwards and cross Bangladesh coast between longitude 91.0°E and 92.0°E near Chittagong around 30th May 2017 forenoon.

Observed and forecast track positions and intensity of the system are given below.

Date/time(IST)	Position (lat. °N/ long. °E)	Maximum sustained surface wind speed (kmph)	Category of cyclonic Disturbance
28.05.2017/2330	16.3/91.2	65-75 gusting to 85	Cyclonic Storm
29.05.2017/0530	17.1/91.4	75-85 gusting to 95	Cyclonic Storm
29.05.2017/1130	18.0/91.5	80-90 gusting to 100	Cyclonic Storm
29.05.2017/1730	19.1/91.6	90-100 gusting to 110	Severe Cyclonic Storm
29.05.2017/2330	20.2/91.7	95-105 gusting to 115	Severe Cyclonic Storm
30.05.2017/1130	22.4/91.9	60-70 gusting to 80	Cyclonic Storm
30.05.2017/2330	24.7/92.5	35-45 gusting to 55	Depression

Warning:

(v) Heavy Rainfall Warning:

30th May 2017: Rainfall at most places with heavy to very heavy rainfall at a few places and isolated extremely heavy rainfall very likely over Assam & Meghalaya. Rainfall at most places with heavy to very heavy rainfall at isolated places very likely over Tripura, Mizoram, Manipur, Nagaland and Arunachal Pradesh.

Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%

Rainfall amount (mm): Heavy rain: 64.5 – 124.4, Very heavy rain: 124.5 – 244.4, Extremely heavy rain: 244.5 or more.

31st May 2017: Rainfall at most places with heavy to very heavy rainfall at isolated places very likely over Assam & Meghalaya, Tripura, Mizoram, Manipur, Nagaland and Arunachal Pradesh.

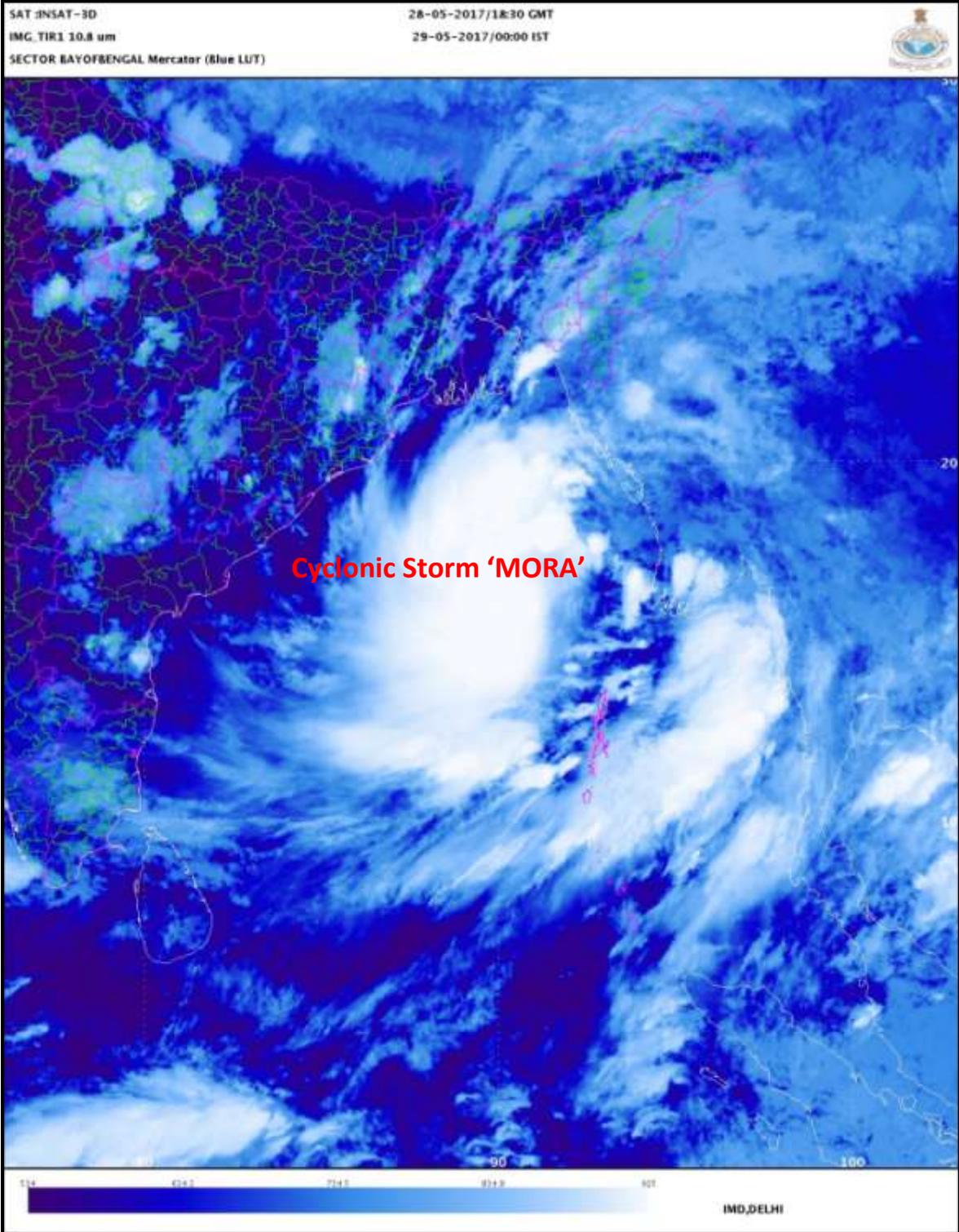
- (vi) **Wind warning:** Squally winds speed reaching 40-50 kmph gusting to 60 kmph would prevail along & off Andaman Islands and adjoining Sea areas during next 48 hours. Squally winds speed reaching 45-55 kmph gusting to 65 kmph would prevail over South Assam, Meghalaya, Mizoram, Manipur and Tripura on 30th May and along & off West Bengal coast on 29th & 30th.
- (vii) **Sea condition:** Sea condition would be rough to very rough along & off Andaman Islands during next 48 hours and along & off West Bengal Coast on 30th.
- (viii) **Fishermen Warning:** Fishermen are advised not to venture into sea along & off Andaman Islands during next 48 hrs. Fishermen along & off West Bengal Coast are advised not to venture into sea on 29th & 30th May and those out at sea are advised to return to the coast.

The next bulletin will be issued at 0500 hrs IST of 29th May 2016.

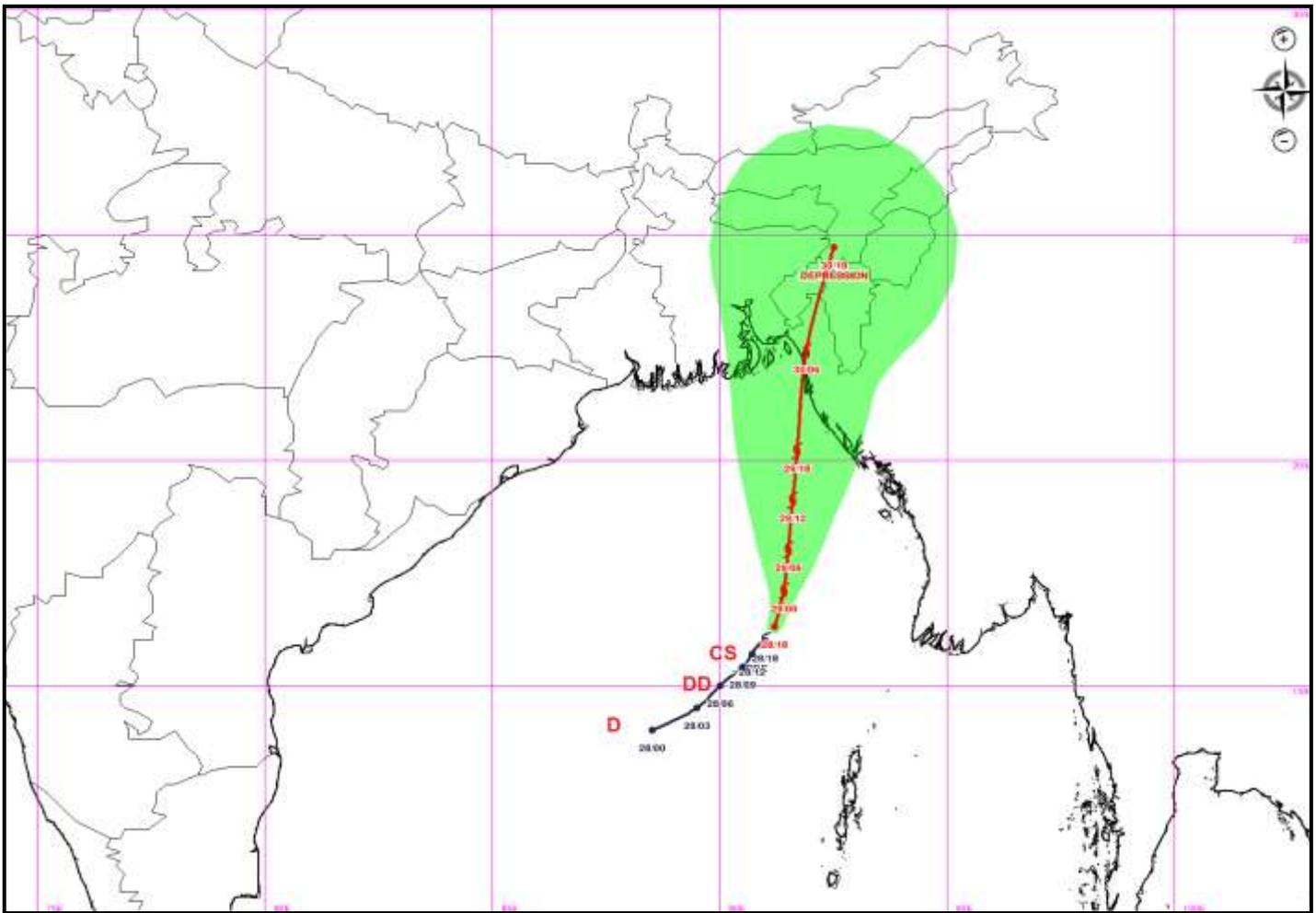
(Shobhit Katiyar)
Scientist-B, RSMC, New Delhi

Copy to: DFDD, Pune/ACWC Kolkata /ACWC Chennai/CWC Vishakhapatnam/CWC Bhubaneswar/MC Hyderabad.

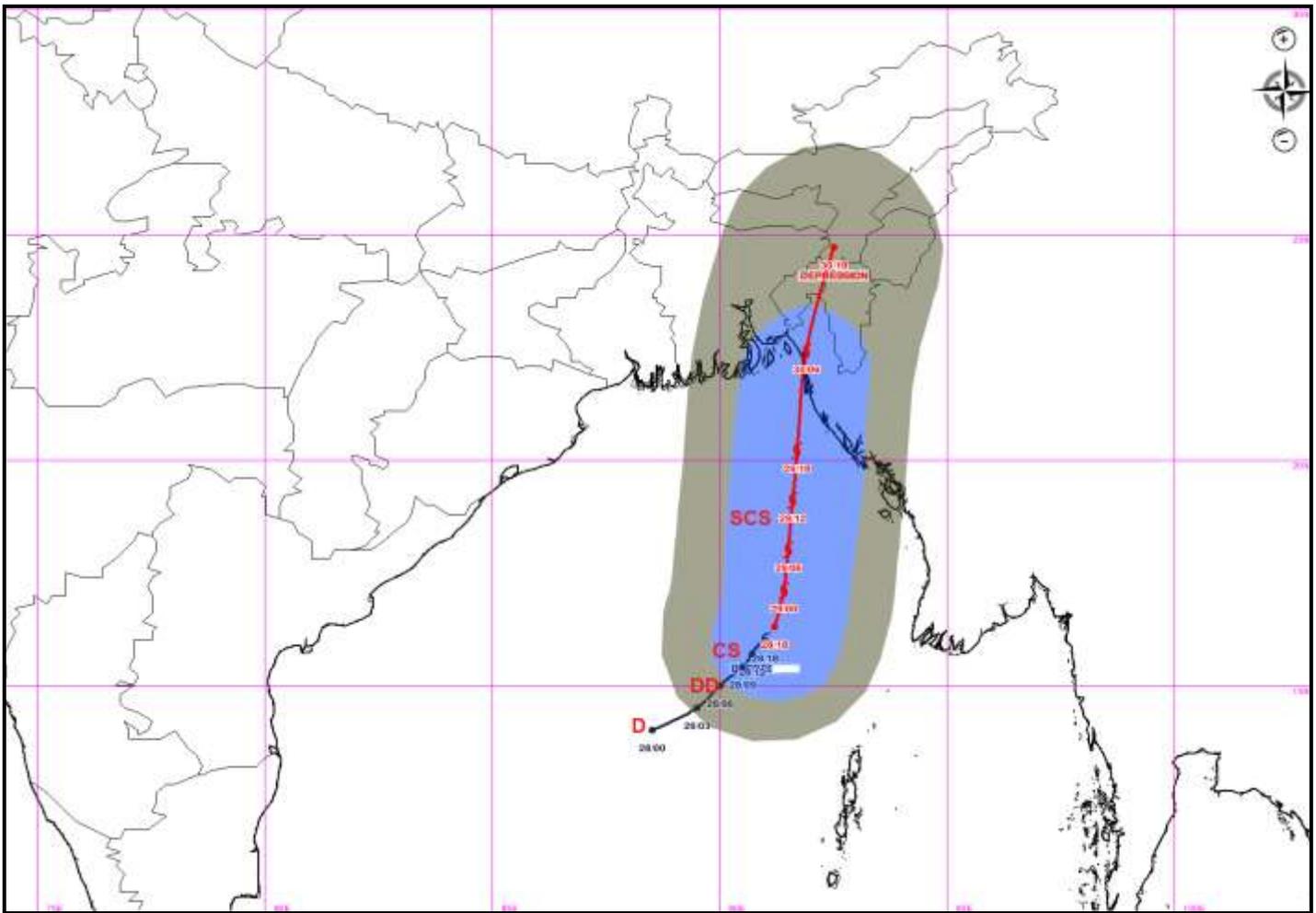
Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
Rainfall amount (mm): Heavy rain: 64.5 – 124.4, Very heavy rain: 124.5 – 244.4, Extremely heavy rain: 244.5 or more.



Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
 Rainfall amount (mm): Heavy rain: 64.5 – 124.4, Very heavy rain: 124.5 – 244.4, Extremely heavy rain: 244.5 or more.



Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
Rainfall amount (mm): Heavy rain: 64.5 – 124.4, Very heavy rain: 124.5 – 244.4, Extremely heavy rain: 244.5 or more.



Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
Rainfall amount (mm): Heavy rain: 64.5 – 124.4, Very heavy rain: 124.5 – 244.4, Extremely heavy rain: 244.5 or more.



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

BULLETIN NO.: 08 (BOB 02/2017)

TIME OF ISSUE: 0500 HOURS IST

DATED: 29.05.2017

FROM: INDIA METEOROLOGICAL DEPARTMENT

**TO: CONTROL ROOM, NDM, MINISTRY OF HOME AFFAIRS
CONTROL ROOM NDMA
CABINET SECRETARIAT
PS TO HON'BLE MINISTER FOR S & T AND EARTH SCIENCES
SECRETARY, MOES,
SECRETARY, DST
H.Q. (INTEGRATED DEFENCE STAFF AND CDS)
DIRECTOR GENERAL, DOORDARSHAN
DIRECTOR GENERAL, AIR
PIB MOES
UNI
D.G. NATIONAL DISASTER RESPONSE FORCE (NDRF)
CHIEF SECRETARY, GOVT.OF WEST BENGAL
CHIEF SECRETARY, GOVT.OF TRIPURA
CHIEF SECRETARY, GOVT.OF MANIPUR
CHIEF SECRETARY, GOVT.OF MIZORAM
CHIEF SECRETARY, ANDAMAN & NICOBAR ISLANDS**

Sub: Cyclonic Storm 'MORA' over eastcentral Bay of Bengal

The cyclonic storm '**MORA**' over eastcentral Bay of Bengal moved north-northeastward during past 06 hours with a speed of 12 kmph and lay centred at 0230 hrs IST of today, 29th May, 2017 over eastcentral Bay of Bengal near Latitude 16.6°N and Longitude 91.3°E, about 720 km nearly south-southeast of Kolkata and 630 km south-southwest of Chittagong. The system is likely to intensify further into a severe cyclonic storm during next 24 hours. It is very likely to move north-northeastwards and cross Bangladesh coast between longitude 91.0°E and 92.0°E near Chittagong around 30th May 2017 forenoon.

Observed and forecast track positions and intensity of the system are given below.

Date/time(IST)	Position (lat. °N/ long. °E)	Maximum sustained surface wind speed (kmph)	Category of cyclonic Disturbance
29.05.2017/0230	16.6/91.3	65-75 gusting to 85	Cyclonic Storm
29.05.2017/0530	17.1/91.4	75-85 gusting to 95	Cyclonic Storm
29.05.2017/1130	18.0/91.5	80-90 gusting to 100	Cyclonic Storm
29.05.2017/1730	19.1/91.6	90-100 gusting to 110	Severe Cyclonic Storm
29.05.2017/2330	20.2/91.7	95-105 gusting to 115	Severe Cyclonic Storm
30.05.2017/1130	22.4/91.9	60-70 gusting to 80	Cyclonic Storm
30.05.2017/2330	24.7/92.5	35-45 gusting to 55	Depression

Warning:

(ix) Heavy Rainfall Warning:

30th May 2017: Rainfall at most places with heavy to very heavy rainfall at a few places and isolated extremely heavy rainfall very likely over Assam & Meghalaya. Rainfall at most places with heavy to very heavy rainfall at isolated places very likely over Tripura, Mizoram, Manipur, Nagaland and Arunachal Pradesh.

Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%

Rainfall amount (mm): Heavy rain: 64.5 – 124.4, Very heavy rain: 124.5 – 244.4, Extremely heavy rain: 244.5 or more.

31st May 2017: Rainfall at most places with heavy to very heavy rainfall at isolated places very likely over Assam & Meghalaya, Tripura, Mizoram, Manipur, Nagaland and Arunachal Pradesh.

- (x) **Wind warning:** Squally winds speed reaching 40-50 kmph gusting to 60 kmph would prevail along & off Andaman Islands and adjoining Sea areas during next 48 hours. Squally winds speed reaching 45-55 kmph gusting to 65 kmph would prevail over South Assam, Meghalaya, Mizoram, Manipur and Tripura on 30th May and along & off West Bengal coast on 29th & 30th.
- (xi) **Sea condition:** Sea condition would be rough to very rough along & off Andaman Islands during next 48 hours and along & off West Bengal Coast on 30th.
- (xii) **Fishermen Warning:** Fishermen are advised not to venture into sea along & off Andaman Islands during next 48 hrs. Fishermen along & off West Bengal Coast are advised not to venture into sea on 29th & 30th May and those out at sea are advised to return to the coast.

The next bulletin will be issued at 0830 hrs IST of 29th May 2016.

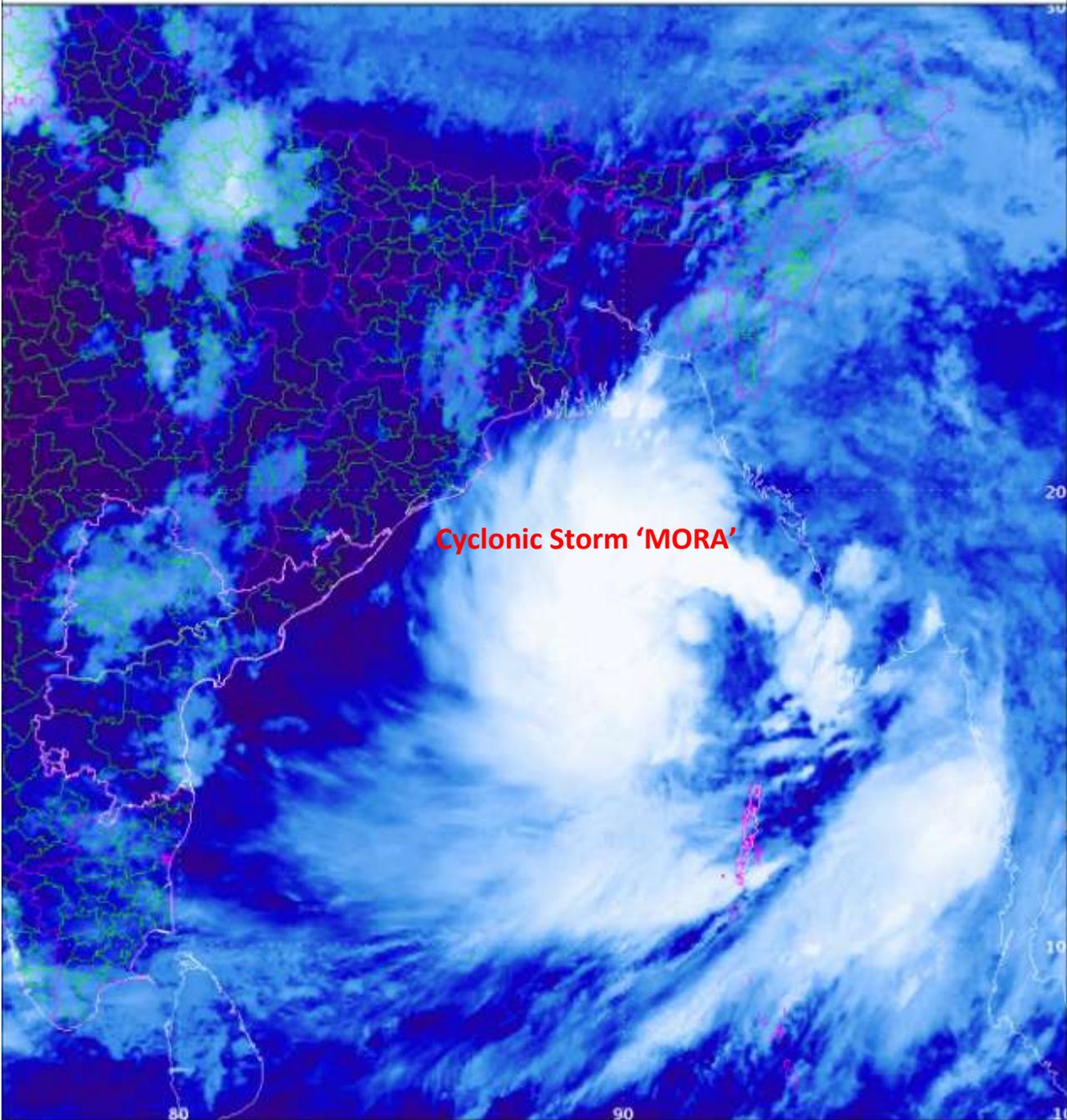
(Shobhit Katiyar)
Scientist-B, RSMC, New Delhi

Copy to: DFDD, Pune/ACWC Kolkata /ACWC Chennai/CWC Vishakhapatnam/CWC Bhubaneswar/MC Hyderabad.

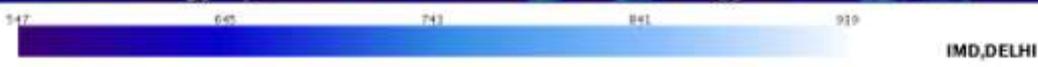
Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
Rainfall amount (mm): Heavy rain: 64.5 – 124.4, Very heavy rain: 124.5 – 244.4, Extremely heavy rain: 244.5 or more.

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28-05-2017/21:30 GMT
29-05-2017/03:00 IST

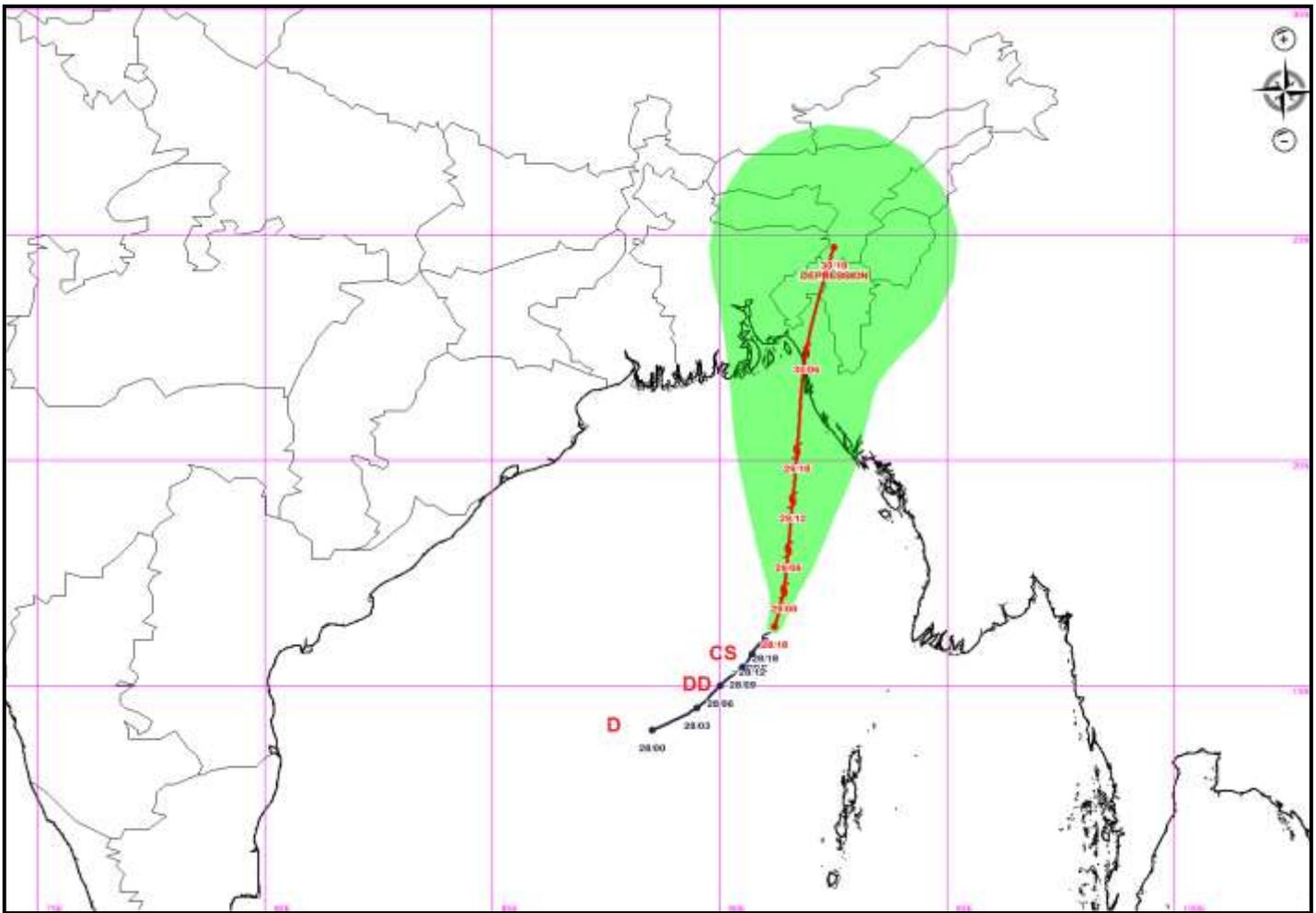


Cyclonic Storm 'MORA'

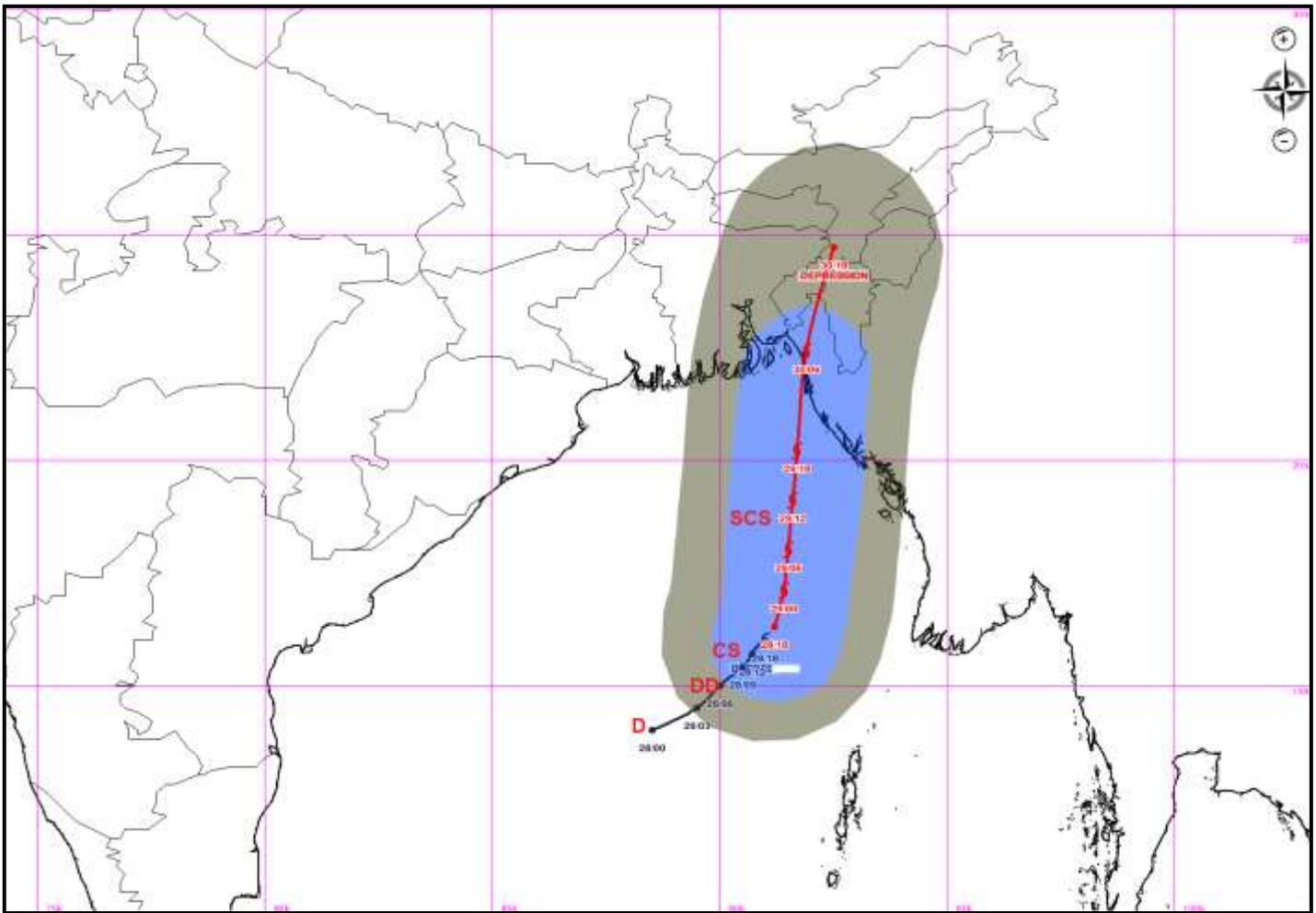


IMD, DELHI

Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
Rainfall amount (mm): Heavy rain: 64.5 – 124.4, Very heavy rain: 124.5 – 244.4, Extremely heavy rain: 244.5 or more.



Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
Rainfall amount (mm): Heavy rain: 64.5 – 124.4, Very heavy rain: 124.5 – 244.4, Extremely heavy rain: 244.5 or more.



Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
Rainfall amount (mm): Heavy rain: 64.5 – 124.4, Very heavy rain: 124.5 – 244.4, Extremely heavy rain: 244.5 or more.



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

BULLETIN NO.: 09 (BOB 02/2017)

TIME OF ISSUE: 0800 HOURS IST

DATED: 29.05.2017

FROM: INDIA METEOROLOGICAL DEPARTMENT

TO: CONTROL ROOM, NDM, MINISTRY OF HOME AFFAIRS

CONTROL ROOM NDMA

CABINET SECRETARIAT

PS TO HON'BLE MINISTER FOR S & T AND EARTH SCIENCES

SECRETARY, MOES,

SECRETARY, DST

H.Q. (INTEGRATED DEFENCE STAFF AND CDS)

DIRECTOR GENERAL, DOORDARSHAN

DIRECTOR GENERAL, AIR

PIB MOES

UNI

D.G. NATIONAL DISASTER RESPONSE FORCE (NDRF)

CHIEF SECRETARY, GOVT.OF WEST BENGAL

CHIEF SECRETARY, GOVT.OF TRIPURA

CHIEF SECRETARY, GOVT.OF MANIPUR

CHIEF SECRETARY, GOVT.OF MIZORAM

CHIEF SECRETARY, ANDAMAN & NICOBAR ISLANDS

Sub: Cyclonic Storm 'MORA' over eastcentral Bay of Bengal

The cyclonic storm '**MORA**' over eastcentral Bay of Bengal moved north-northeastward during past 06 hours with a speed of 13 kmph and lay centred at 0530 hrs IST of today, 29th May, 2017 over eastcentral Bay of Bengal near Latitude 17.0°N and Longitude 91.3°E, about 680 km south-southeast of Kolkata and 580 km south-southwest of Chittagong. The system is likely to intensify further into a severe cyclonic storm during next 12 hours. It is very likely to move north-northeastwards and cross Bangladesh coast between longitude 91.0°E and 92.0°E near Chittagong around 30th May 2017 forenoon.

Observed and forecast track positions and intensity of the system are given below:

Date/time(IST)	Position (lat. °N/ long. °E)	Maximum sustained surface wind speed (kmph)	Category of cyclonic Disturbance
29.05.2017/0530	17.0/91.3	75-85 gusting to 95	Cyclonic Storm
29.05.2017/1130	17.9/91.3	80-90 gusting to 100	Cyclonic Storm
29.05.2017/1730	18.9/91.4	90-100 gusting to 110	Severe Cyclonic Storm
29.05.2017/2330	20.1/91.4	100-110 gusting to 120	Severe Cyclonic Storm
30.05.2017/0530	21.3/91.5	110-120 gusting to 130	Severe Cyclonic Storm
30.05.2017/1730	24.2/91.8	55-65 gusting to 75	Deep Depression
31.05.2017/0530	26.5/92.5	35-45 gusting to 55	Depression

Warning:

(xiii) Heavy Rainfall Warning:

30th May 2017: Rainfall at most places with heavy to very heavy rainfall at a few places and isolated extremely heavy rainfall very likely over Assam & Meghalaya. Rainfall at most places with heavy to very heavy rainfall at isolated places very likely over Tripura, Mizoram, Manipur, Nagaland and Arunachal Pradesh.

Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
Rainfall amount (mm): Heavy rain: 64.5 – 124.4, Very heavy rain: 124.5 – 244.4, Extremely heavy rain: 244.5 or more.

31st May 2017: Rainfall at most places with heavy to very heavy rainfall at isolated places very likely over Assam & Meghalaya, Tripura, Mizoram, Manipur, Nagaland and Arunachal Pradesh.

- (xiv) **Wind warning:** Squally winds speed reaching 40-50 kmph gusting to 60 kmph would prevail along & off Andaman Islands and adjoining Sea areas during next 48 hours. Squally winds speed reaching 45-55 kmph gusting to 65 kmph would prevail over South Assam, Meghalaya, Mizoram, Manipur and Tripura on 30th May and along & off West Bengal coast on 29th & 30th.
- (xv) **Sea condition:** Sea condition would be rough to very rough along & off Andaman Islands during next 48 hours and along & off West Bengal Coast on 30th.
- (xvi) **Fishermen Warning:** Fishermen are advised not to venture into sea along & off Andaman Islands during next 48 hrs. Fishermen along & off West Bengal Coast are advised not to venture into sea on 29th & 30th May and those out at sea are advised to return to the coast.

The next bulletin will be issued at 1130 hrs IST of 29th May 2016.

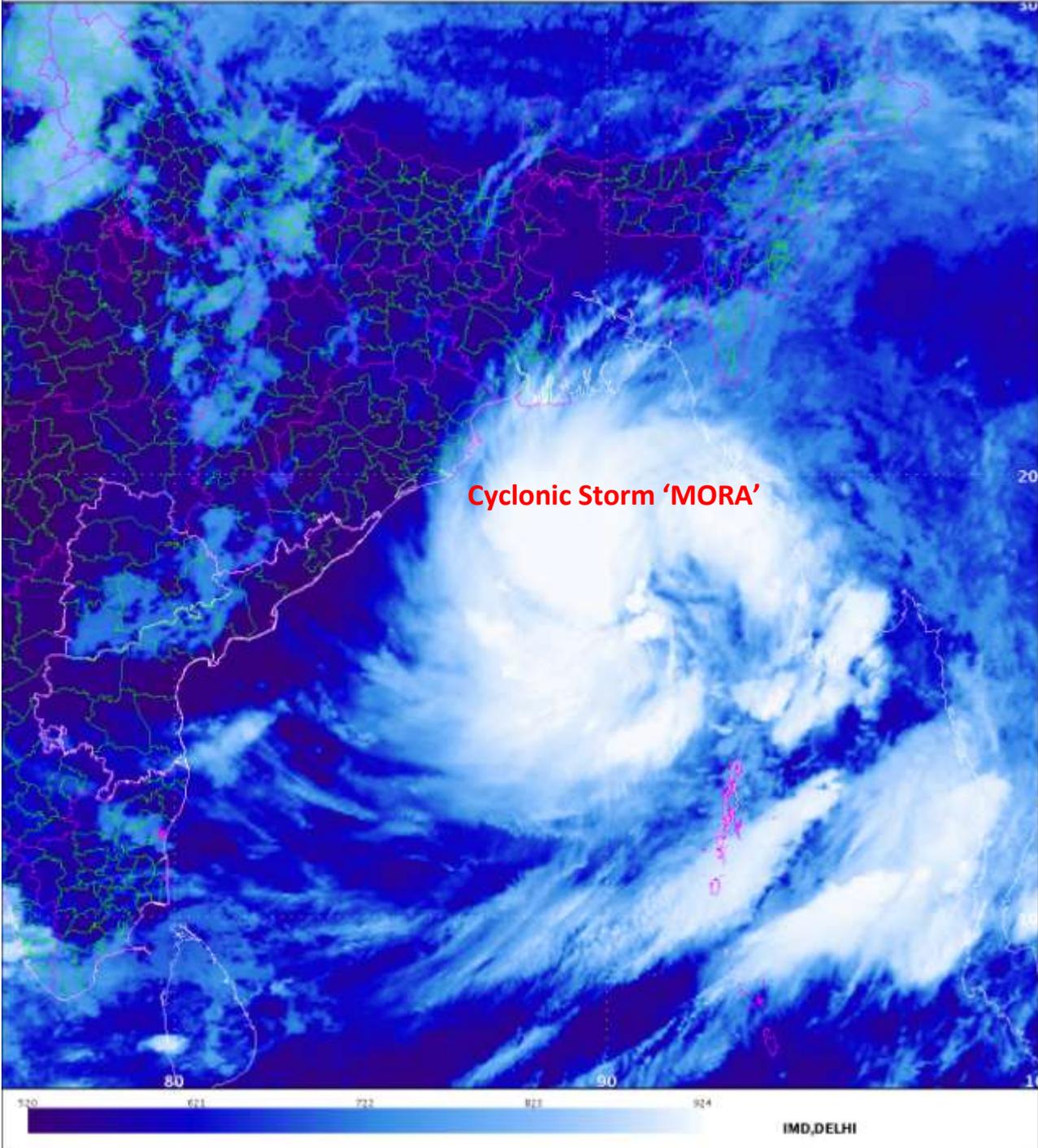
(Shobhit Katiyar)
Scientist-B, RSMC, New Delhi

Copy to: DFDD, Pune/ACWC Kolkata /ACWC Chennai/CWC Vishakhapatnam/CWC Bhubaneswar/MC Hyderabad.

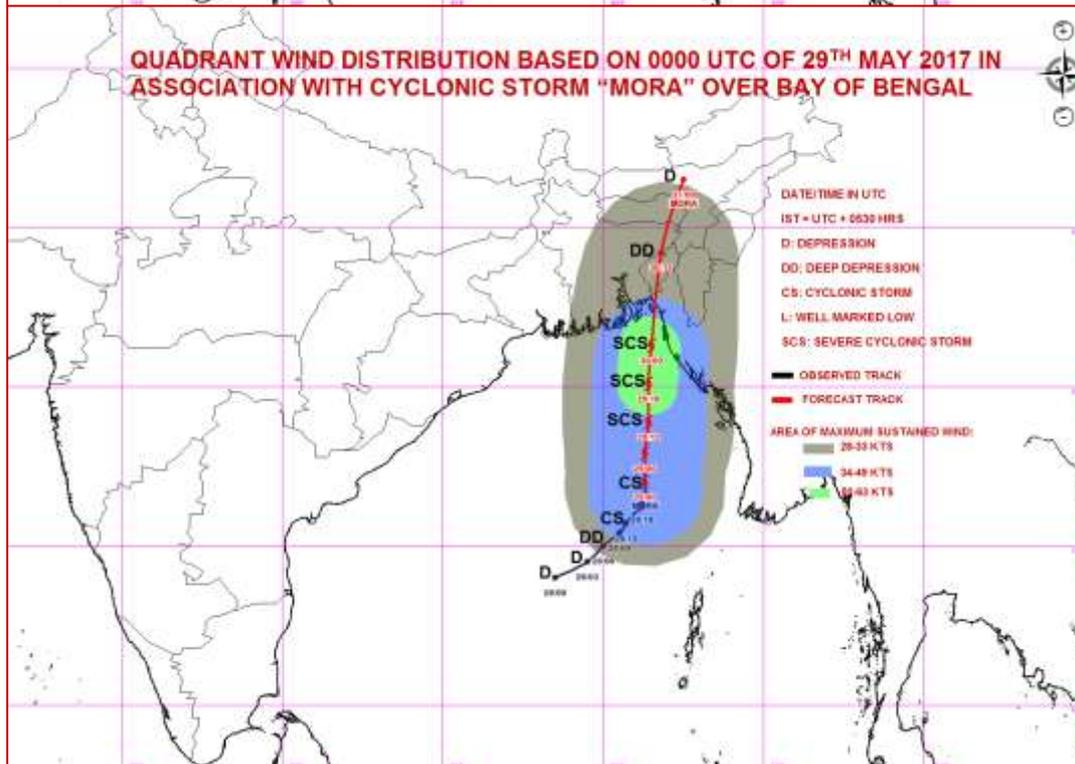
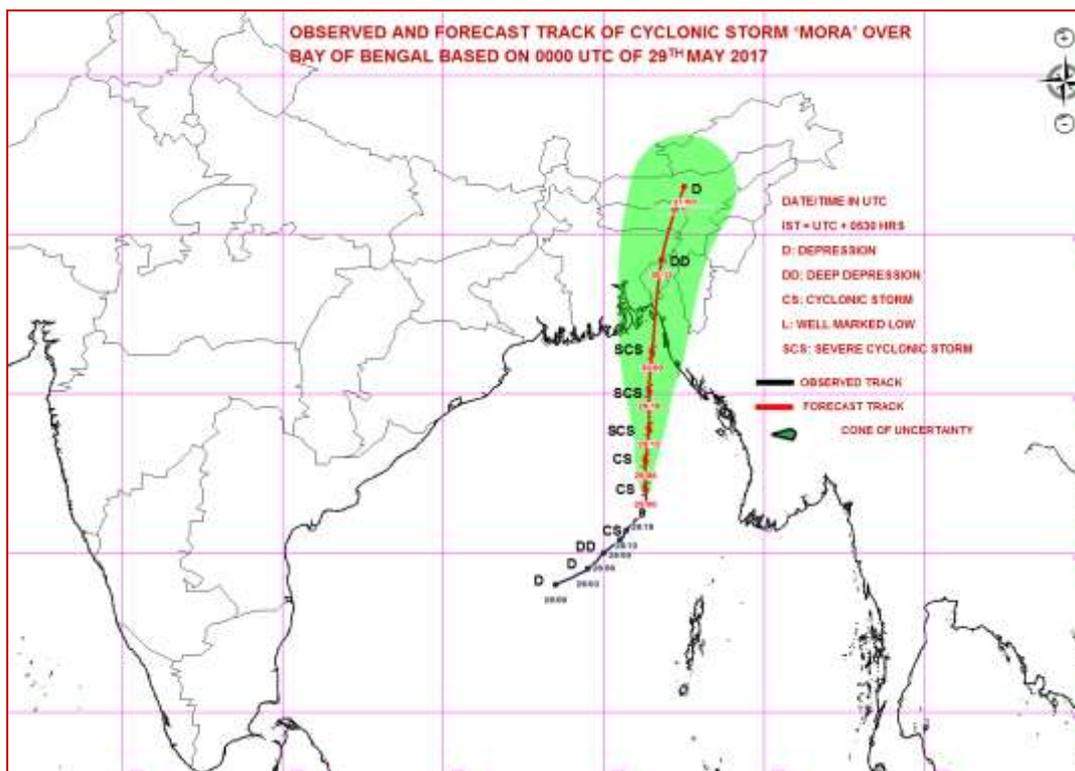
Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
Rainfall amount (mm): Heavy rain: 64.5 – 124.4, Very heavy rain: 124.5 – 244.4, Extremely heavy rain: 244.5 or more.

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



Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
Rainfall amount (mm): Heavy rain: 64.5 – 124.4, Very heavy rain: 124.5 – 244.4, Extremely heavy rain: 244.5 or more.



Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
 Rainfall amount (mm): Heavy rain: 64.5 – 124.4, Very heavy rain: 124.5 – 244.4, Extremely heavy rain: 244.5 or more.



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

BULLETIN NO.: 10 (BOB 02/2017)

TIME OF ISSUE: 1100 HOURS IST

DATED: 29.05.2017

FROM: INDIA METEOROLOGICAL DEPARTMENT

TO: CONTROL ROOM, NDM, MINISTRY OF HOME AFFAIRS

CONTROL ROOM NDMA

CABINET SECRETARIAT

PS TO HON'BLE MINISTER FOR S & T AND EARTH SCIENCES

SECRETARY, MOES,

SECRETARY, DST

H.Q. (INTEGRATED DEFENCE STAFF AND CDS)

DIRECTOR GENERAL, DOORDARSHAN

DIRECTOR GENERAL, AIR

PIB MOES

UNI

D.G. NATIONAL DISASTER RESPONSE FORCE (NDRF)

CHIEF SECRETARY, GOVT.OF WEST BENGAL

CHIEF SECRETARY, GOVT.OF TRIPURA

CHIEF SECRETARY, GOVT.OF MANIPUR

CHIEF SECRETARY, GOVT.OF MIZORAM

CHIEF SECRETARY, ANDAMAN & NICOBAR ISLANDS

Sub: Cyclonic Storm 'MORA' over eastcentral Bay of Bengal

The cyclonic storm '**MORA**' over eastcentral Bay of Bengal moved northward during past 06 hours with a speed of 11 kmph and lay centred at 0830 hrs IST of today, 29th May, 2017 over eastcentral Bay of Bengal near Latitude 17.3°N and Longitude 91.3°E, about 660 km south-southeast of Kolkata and 550 km south-southwest of Chittagong. The system is likely to intensify further into a severe cyclonic storm during next 12 hours. It is very likely to move north-northeastwards and cross Bangladesh coast between longitude 91.0°E and 92.0°E near Chittagong around 30th May 2017 forenoon.

Observed and forecast track positions and intensity of the system are given below:

Date/time(IST)	Position (lat. °N/ long. °E)	Maximum sustained surface wind speed (kmph)	Category of cyclonic Disturbance
29.05.2017/0830	17.3/91.3	75-85 gusting to 95	Cyclonic Storm
29.05.2017/1130	17.9/91.3	80-90 gusting to 100	Cyclonic Storm
29.05.2017/1730	18.9/91.4	90-100 gusting to 110	Severe Cyclonic Storm
29.05.2017/2330	20.1/91.4	100-110 gusting to 120	Severe Cyclonic Storm
30.05.2017/0530	21.3/91.5	110-120 gusting to 130	Severe Cyclonic Storm
30.05.2017/1730	24.2/91.8	55-65 gusting to 75	Deep Depression
31.05.2017/0530	26.5/92.5	35-45 gusting to 55	Depression

Warning:

(xvii) Heavy Rainfall Warning:

29th May 2017: Rainfall at many places with heavy rainfall at isolated places very likely to commence over Tripura and Mizoram from today evening, the 29th May, 2017.

30th May 2017: Rainfall at most places with heavy to very heavy rainfall at a few places and isolated extremely heavy rainfall very likely over Assam & Meghalaya. Rainfall at most places

Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%

Rainfall amount (mm): Heavy rain: 64.5 – 124.4, Very heavy rain: 124.5 – 244.4, Extremely heavy rain: 244.5 or more.

with heavy to very heavy rainfall at isolated places very likely over Tripura, Mizoram, Manipur, Nagaland and Arunachal Pradesh.

31st May 2017: Rainfall at most places with heavy to very heavy rainfall at isolated places very likely over Assam & Meghalaya, Tripura, Mizoram, Manipur, Nagaland and Arunachal Pradesh.

- (xviii) **Wind warning:** Squally winds speed reaching 40-50 kmph gusting to 60 kmph would prevail along & off Andaman Islands and adjoining Sea areas during next 48 hours. Squally winds speed reaching 45-55 kmph gusting to 65 kmph would prevail over South Assam, Meghalaya, Mizoram, Manipur and Tripura on 30th May and along & off West Bengal coast on 29th & 30th.
- (xix) **Sea condition:** Sea condition would be rough to very rough along & off Andaman Islands during next 48 hours and along & off West Bengal Coast on 30th.
- (xx) **Fishermen Warning:** Fishermen are advised not to venture into sea along & off Andaman Islands during next 48 hrs. Fishermen along & off West Bengal Coast are advised not to venture into sea on 29th & 30th May and those out at sea are advised to return to the coast.

The next bulletin will be issued at 1430 hrs IST of 29th May 2016.

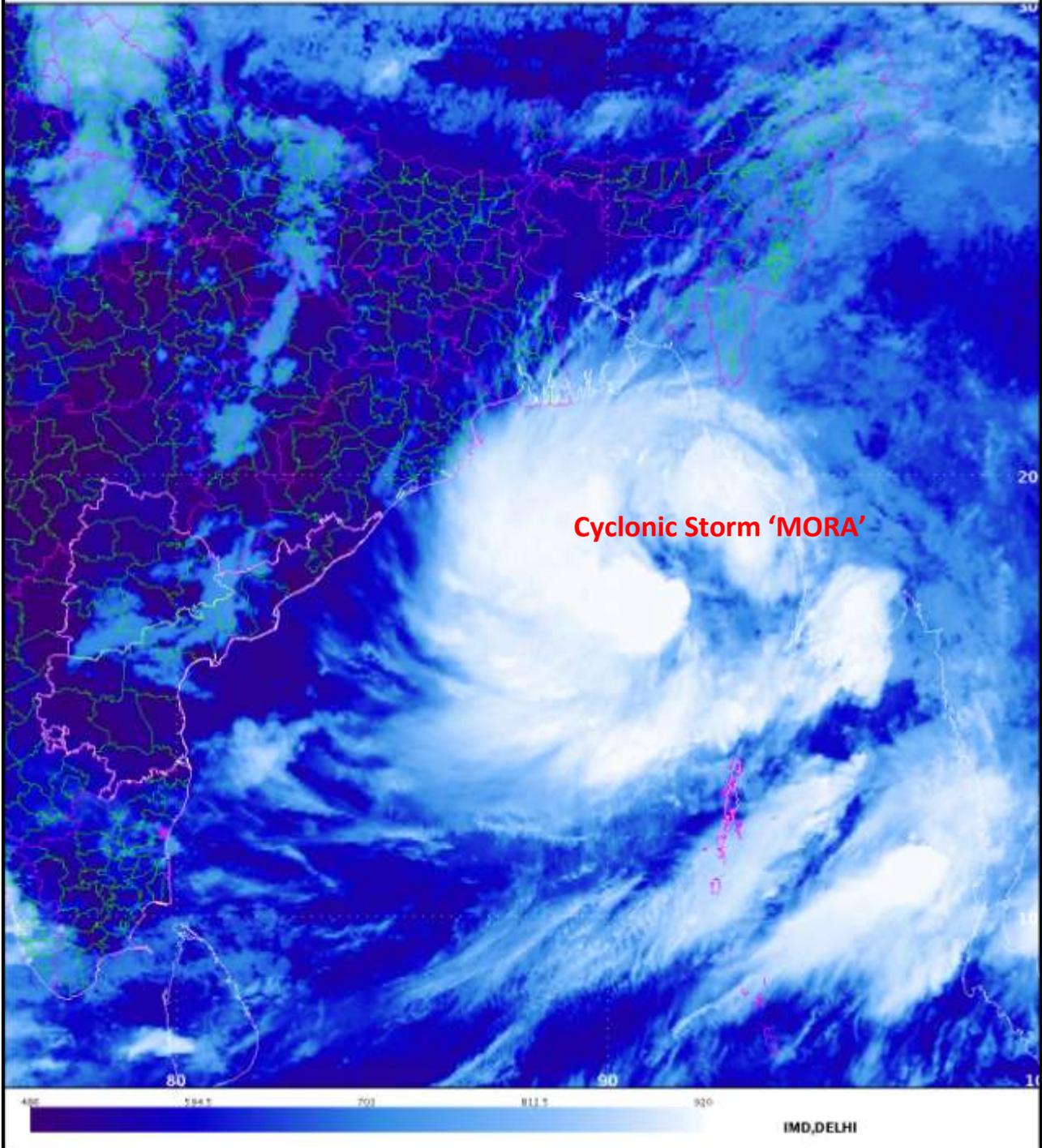
(Naresh Kumar)
Scientist-D
RSMC, New Delhi

Copy to: DFDD, Pune/ACWC Kolkata /ACWC Chennai/CWC Vishakhapatnam/CWC Bhubaneswar/MC Hyderabad.

Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
Rainfall amount (mm): Heavy rain: 64.5 – 124.4, Very heavy rain: 124.5 – 244.4, Extremely heavy rain: 244.5 or more.

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



Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
Rainfall amount (mm): Heavy rain: 64.5 – 124.4, Very heavy rain: 124.5 – 244.4, Extremely heavy rain: 244.5 or more.



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

BULLETIN NO.: 11 (BOB 02/2017)

TIME OF ISSUE: 1400 HOURS IST

DATED: 29.05.2017

FROM: INDIA METEOROLOGICAL DEPARTMENT

**TO: CONTROL ROOM, NDM, MINISTRY OF HOME AFFAIRS
CONTROL ROOM NDMA
CABINET SECRETARIAT
PS TO HON'BLE MINISTER FOR S & T AND EARTH SCIENCES
SECRETARY, MOES,
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H.Q. (INTEGRATED DEFENCE STAFF AND CDS)
DIRECTOR GENERAL, DOORDARSHAN
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UNI
D.G. NATIONAL DISASTER RESPONSE FORCE (NDRF)
CHIEF SECRETARY, GOVT.OF WEST BENGAL
CHIEF SECRETARY, GOVT.OF TRIPURA
CHIEF SECRETARY, GOVT.OF MANIPUR
CHIEF SECRETARY, GOVT.OF MIZORAM
CHIEF SECRETARY, GOVT.OF NAGALAND
CHIEF SECRETARY, GOVT.OF ASSAM
CHIEF SECRETARY, GOVT.OF MEGHALAYA
CHIEF SECRETARY, GOVT.OF ARUNACHAL PRADESH
CHIEF SECRETARY, ANDAMAN & NICOBAR ISLANDS**

Sub: Cyclonic Storm 'MORA' over eastcentral Bay of Bengal

The cyclonic storm '**MORA**' over eastcentral Bay of Bengal moved north-northeastward during past 06 hours with a speed of 15 kmph and lay centred at 1130 hrs IST of today, 29th May, 2017 over eastcentral Bay of Bengal near Latitude 17.8°N and Longitude 91.4°E, about 610 km south-southeast of Kolkata and 500 km south-southwest of Chittagong. The system is likely to intensify further into a severe cyclonic storm during next 12 hours. It is very likely to move north-northeastwards and cross Bangladesh coast between longitude 91.0°E and 92.0°E near Chittagong around 30th May 2017 forenoon.

Observed and forecast track positions and intensity of the system are given below:

Date/time(IST)	Position (lat. °N/ long. °E)	Maximum sustained surface wind speed (kmph)	Category of cyclonic Disturbance
29.05.2017/1130	17.8/91.4	80-90 gusting to 100	Cyclonic Storm
29.05.2017/1730	18.9/91.5	90-100 gusting to 110	Severe Cyclonic Storm
29.05.2017/2330	20.1/91.5	100-110 gusting to 120	Severe Cyclonic Storm
30.05.2017/0530	21.3/91.6	110-120 gusting to 130	Severe Cyclonic Storm
30.05.2017/1130	22.8/91.7	110-120 gusting to 130	Severe Cyclonic Storm
30.05.2017/2330	25.4/92.2	55-65 gusting to 75	Deep Depression
31.05.2017/1130	27.7/93.0	30-40 gusting to 50	Depression

Warning:

(xxi) Heavy Rainfall Warning:

Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
Rainfall amount (mm): Heavy rain: 64.5 – 124.4, Very heavy rain: 124.5 – 244.4, Extremely heavy rain: 244.5 or more.

29th May 2017: Rainfall at many places with heavy rainfall at isolated places very likely to commence over Tripura and Mizoram from today evening, the 29th May, 2017.

30th May 2017: Rainfall at most places with heavy to very heavy rainfall at a few places and isolated extremely heavy rainfall very likely over Assam & Meghalaya. Rainfall at most places with heavy to very heavy rainfall at isolated places very likely over Tripura, Mizoram, Manipur, Nagaland and Arunachal Pradesh.

31st May 2017: Rainfall at most places with heavy to very heavy rainfall at isolated places very likely over Assam & Meghalaya, Tripura, Mizoram, Manipur, Nagaland and Arunachal Pradesh.

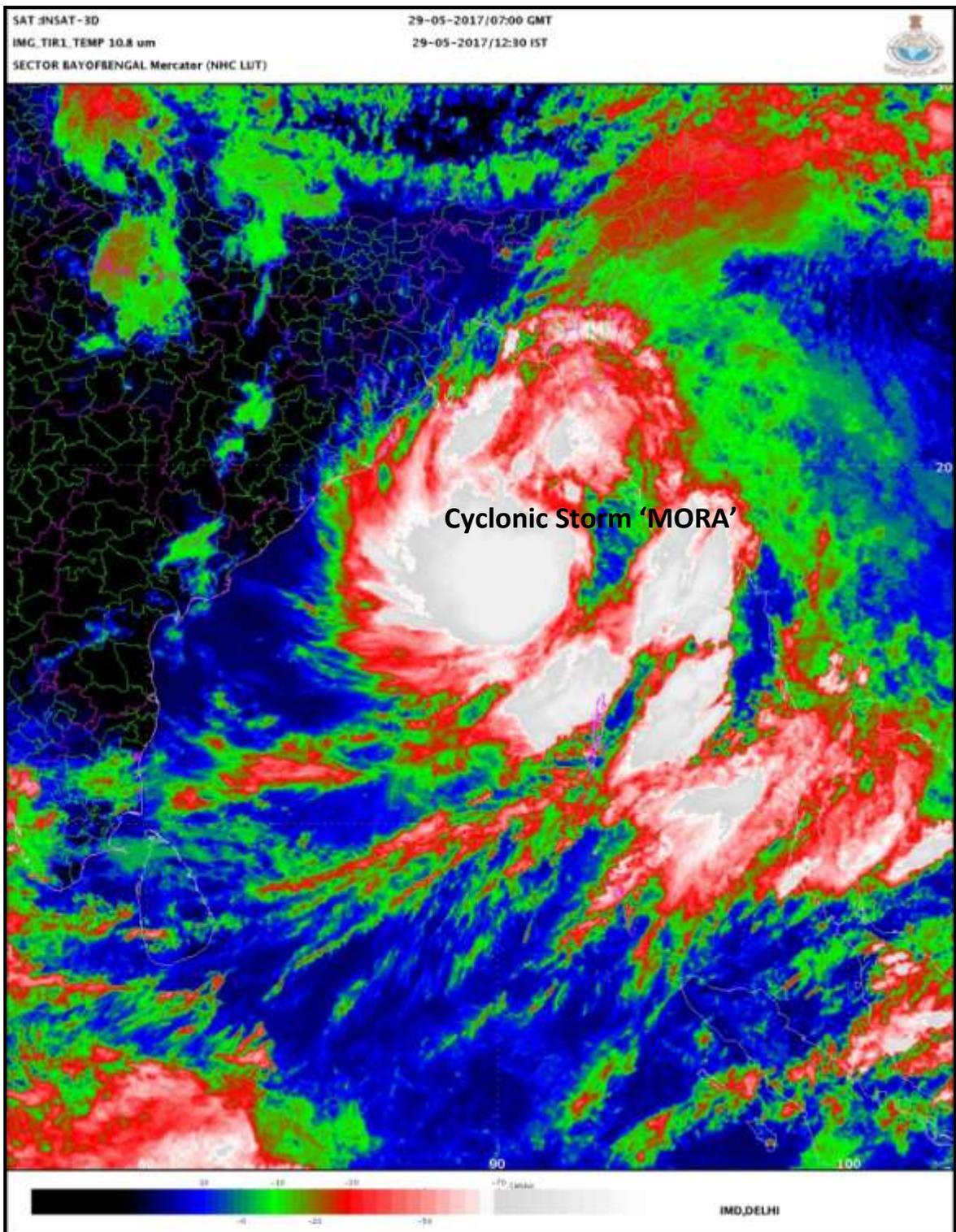
- (xxii) **Wind warning:** Squally winds speed reaching 40-50 kmph gusting to 60 kmph would prevail along & off Andaman Islands and adjoining Sea areas during next 12 hours. Squally winds speed reaching 45-55 kmph gusting to 65 kmph would prevail over South Assam, Meghalaya, Mizoram, Manipur and Tripura on 30th May and along & off West Bengal coast on 29th & 30th.
- (xxiii) **Sea condition:** Sea condition would be rough to very rough along & off Andaman Islands during next 12 hours and along & off West Bengal Coast on 30th.
- (xxiv) **Fishermen Warning:** Fishermen are advised not to venture into sea along & off Andaman Islands during next 48 hrs. Fishermen along & off West Bengal Coast are advised not to venture into sea on 29th & 30th May and those out at sea are advised to return to the coast.

The next bulletin will be issued at 1730 hrs IST of 29th May 2016.

(Naresh Kumar)
Scientist-D
RSMC, New Delhi

Copy to: DFDD, Pune/ACWC Kolkata /ACWC Chennai/CWC Vishakhapatnam/CWC Bhubaneswar/MC Hyderabad.

Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
Rainfall amount (mm): Heavy rain: 64.5 – 124.4, Very heavy rain: 124.5 – 244.4, Extremely heavy rain: 244.5 or more.



Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
 Rainfall amount (mm): Heavy rain: 64.5 – 124.4, Very heavy rain: 124.5 – 244.4, Extremely heavy rain: 244.5 or more.



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

BULLETIN NO.: 12 (BOB 02/2017)

TIME OF ISSUE: 1700 HOURS IST

DATED: 29.05.2017

FROM: INDIA METEOROLOGICAL DEPARTMENT

**TO: CONTROL ROOM, NDM, MINISTRY OF HOME AFFAIRS
CONTROL ROOM NDMA
CABINET SECRETARIAT
PS TO HON'BLE MINISTER FOR S & T AND EARTH SCIENCES
SECRETARY, MOES,
SECRETARY, DST
H.Q. (INTEGRATED DEFENCE STAFF AND CDS)
DIRECTOR GENERAL, DOORDARSHAN
DIRECTOR GENERAL, AIR
PIB MOES
UNI
D.G. NATIONAL DISASTER RESPONSE FORCE (NDRF)
CHIEF SECRETARY, GOVT.OF WEST BENGAL
CHIEF SECRETARY, GOVT.OF TRIPURA
CHIEF SECRETARY, GOVT.OF MANIPUR
CHIEF SECRETARY, GOVT.OF MIZORAM
CHIEF SECRETARY, GOVT.OF NAGALAND
CHIEF SECRETARY, GOVT.OF ASSAM
CHIEF SECRETARY, GOVT.OF MEGHALAYA
CHIEF SECRETARY, GOVT.OF ARUNACHAL PRADESH
CHIEF SECRETARY, ANDAMAN & NICOBAR ISLANDS**

Sub: Cyclonic Storm 'MORA' over eastcentral Bay of Bengal

The cyclonic storm '**MORA**' over eastcentral Bay of Bengal moved further north-northeastward during past 06 hours with a speed of 19 kmph and lay centred at 1430 hrs IST of today, 29th May, 2017 over eastcentral Bay of Bengal near Latitude 18.3°N and Longitude 91.5°E, about 570 km south-southeast of Kolkata and 440 km south-southwest of Chittagong. The system is likely to intensify further into a severe cyclonic storm during next 12 hours. It is very likely to move north-northeastwards and cross Bangladesh coast between longitude 91.0°E and 92.0°E near Chittagong around 30th May 2017 forenoon.

Observed and forecast track positions and intensity of the system are given below:

Date/time(IST)	Position (lat. °N/ long. °E)	Maximum sustained surface wind speed (kmph)	Category of cyclonic Disturbance
29.05.2017/1430	18.3/91.5	80-90 gusting to 100	Cyclonic Storm
29.05.2017/1730	18.9/91.5	90-100 gusting to 110	Severe Cyclonic Storm
29.05.2017/2330	20.1/91.5	100-110 gusting to 120	Severe Cyclonic Storm
30.05.2017/0530	21.3/91.6	110-120 gusting to 130	Severe Cyclonic Storm
30.05.2017/1130	22.8/91.7	110-120 gusting to 130	Severe Cyclonic Storm
30.05.2017/2330	25.4/92.2	55-65 gusting to 75	Deep Depression
31.05.2017/1130	27.7/93.0	30-40 gusting to 50	Depression

Warning:

(xxv) Heavy Rainfall Warning:

Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
Rainfall amount (mm): Heavy rain: 64.5 – 124.4, Very heavy rain: 124.5 – 244.4, Extremely heavy rain: 244.5 or more.

29th May 2017: Rainfall at many places with heavy rainfall at isolated places very likely to commence over Tripura and Mizoram from today evening, the 29th May, 2017.

30th May 2017: Rainfall at most places with heavy to very heavy rainfall at a few places and isolated extremely heavy rainfall very likely over Assam & Meghalaya. Rainfall at most places with heavy to very heavy rainfall at isolated places very likely over Tripura, Mizoram, Manipur, Nagaland and Arunachal Pradesh.

31st May 2017: Rainfall at most places with heavy to very heavy rainfall at isolated places very likely over Assam & Meghalaya, Tripura, Mizoram, Manipur, Nagaland and Arunachal Pradesh.

(xxvi) Wind warning: Squally winds speed reaching 40-50 kmph gusting to 60 kmph would prevail along & off Andaman Islands and adjoining Sea areas during next 12 hours. Squally winds speed reaching 45-55 kmph gusting to 65 kmph would prevail over South Assam, Meghalaya, Mizoram, Manipur and Tripura on 30th May and along & off West Bengal coast on 29th & 30th.

(xxvii) Sea condition: Sea condition would be rough to very rough along & off Andaman Islands during next 12 hours and along & off West Bengal Coast on 30th.

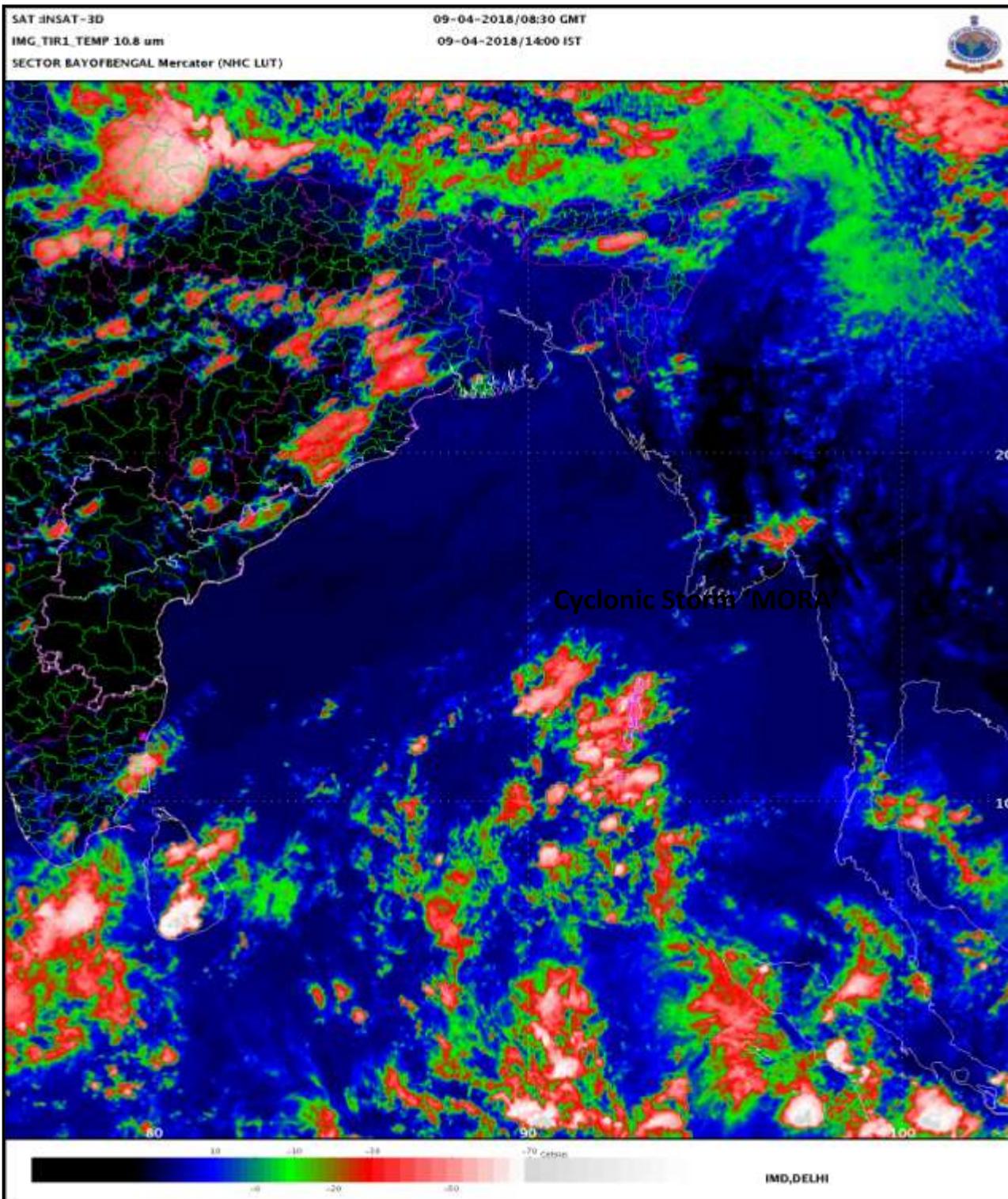
(xxviii) Fishermen Warning: Fishermen are advised not to venture into sea along & off Andaman Islands during next 48 hrs. Fishermen along & off West Bengal Coast are advised not to venture into sea on 29th & 30th May and those out at sea are advised to return to the coast.

The next bulletin will be issued at 2030 hrs IST of 29th May 2016.

**(Naresh Kumar)
Scientist-D
RSMC, New Delhi**

Copy to: DFDD, Pune/ACWC Kolkata /ACWC Chennai/CWC Vishakhapatnam/CWC Bhubaneswar/MC Hyderabad.

Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
Rainfall amount (mm): Heavy rain: 64.5 – 124.4, Very heavy rain: 124.5 – 244.4, Extremely heavy rain: 244.5 or more.



Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
 Rainfall amount (mm): Heavy rain: 64.5 – 124.4, Very heavy rain: 124.5 – 244.4, Extremely heavy rain: 244.5 or more.

Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
Rainfall amount (mm): Heavy rain: 64.5 – 124.4, Very heavy rain: 124.5 – 244.4, Extremely heavy rain: 244.5 or more.



India Meteorological Department
Earth System Science Organisation
(Ministry of Earth Sciences)

BULLETIN NO.: 13 (BOB 02/2017)

TIME OF ISSUE: 2030 HOURS IST

DATED: 29.05.2017

FROM: INDIA METEOROLOGICAL DEPARTMENT

**TO: CONTROL ROOM, NDM, MINISTRY OF HOME AFFAIRS
CONTROL ROOM NDMA
CABINET SECRETARIAT
PS TO HON'BLE MINISTER FOR S & T AND EARTH SCIENCES
SECRETARY, MOES,
SECRETARY, DST
H.Q. (INTEGRATED DEFENCE STAFF AND CDS)
DIRECTOR GENERAL, DOORDARSHAN
DIRECTOR GENERAL, AIR
PIB MOES
UNI
D.G. NATIONAL DISASTER RESPONSE FORCE (NDRF)
CHIEF SECRETARY, GOVT.OF WEST BENGAL
CHIEF SECRETARY, GOVT.OF TRIPURA
CHIEF SECRETARY, GOVT.OF MANIPUR
CHIEF SECRETARY, GOVT.OF MIZORAM
CHIEF SECRETARY, GOVT.OF NAGALAND
CHIEF SECRETARY, GOVT.OF ASSAM
CHIEF SECRETARY, GOVT.OF MEGHALAYA
CHIEF SECRETARY, GOVT.OF ARUNACHAL PRADESH
CHIEF SECRETARY, ANDAMAN & NICOBAR ISLANDS**

Sub: Severe Cyclonic Storm 'MORA' over northeast & adjoining eastcentral Bay of Bengal

The cyclonic storm '**MORA**' over eastcentral Bay of Bengal moved further north-northeastward during past 06 hours with a speed of 15 kmph, intensified into a severe cyclonic storm and lay centred at 1730 hrs IST of today, 29th May, 2017 over northeast & adjoining eastcentral Bay of Bengal near Latitude 18.6°N and Longitude 91.5°E, about 550 km south-southeast of Kolkata and 410 km south-southwest of Chittagong. The system is likely to slightly intensify further during next 12 hours. It is very likely to move north-northeastwards and cross Bangladesh coast near Chittagong by 30th May 2017 forenoon.

Observed and forecast track positions and intensity of the system are given below:

Date/time(IST)	Position (lat. °N/ long. °E)	Maximum sustained surface wind speed (kmph)	Category of cyclonic Disturbance
29.05.2017/1730	18.6/91.5	90-100 gusting to 110	Severe Cyclonic Storm
29.05.2017/2330	20.0/91.6	100-110 gusting to 120	Severe Cyclonic Storm
30.05.2017/0530	21.3/91.7	110-120 gusting to 130	Severe Cyclonic Storm
30.05.2017/1130	22.8/91.8	100-110 gusting to 120	Severe Cyclonic Storm
30.05.2017/1730	24.1/92.1	55-65 gusting to 75	Deep Depression
31.05.2017/0530	26.4/93.0	25-35 gusting to 45	Well Marked Low

Warning:

(xxix) Heavy Rainfall Warning:

30th May 2017: Rainfall at most places with heavy to very heavy rainfall at a few places and isolated extremely heavy rainfall very likely over Assam & Meghalaya. Rainfall at most places with heavy to very heavy rainfall at isolated places very likely over Tripura, Mizoram, Manipur, Nagaland and Arunachal Pradesh.

Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
Rainfall amount (mm): Heavy rain: 64.5 – 124.4, Very heavy rain: 124.5 – 244.4, Extremely heavy rain: 244.5 or more.

31st May 2017: Rainfall at most places with heavy to very heavy rainfall at isolated places very likely over Assam & Meghalaya, Tripura, Mizoram, Manipur, Nagaland and Arunachal Pradesh.

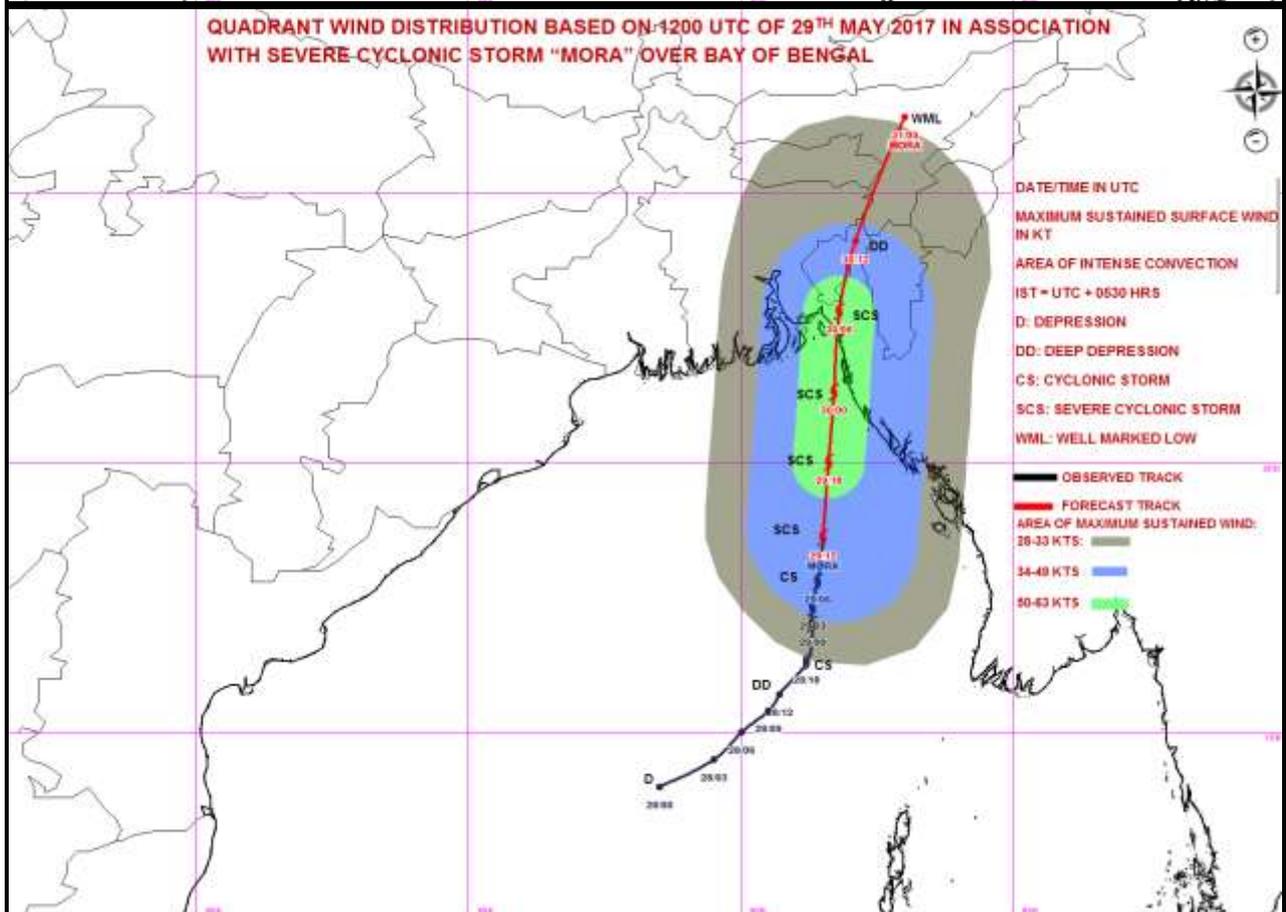
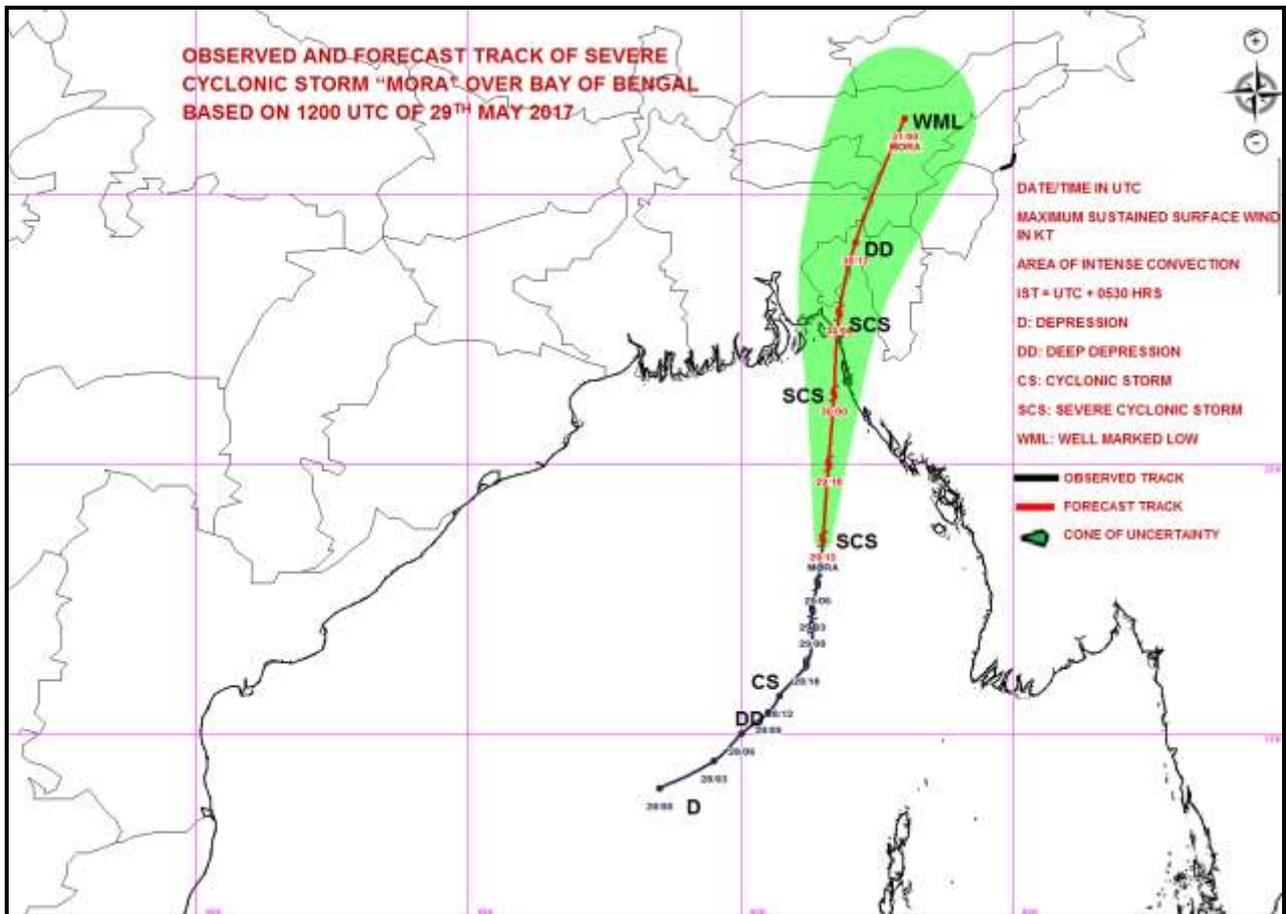
- (xxx) **Wind warning:** Gale winds speed reaching 60-70 kmph gusting to 80 kmph would prevail over Mizoram and Tripura on 30th. Squally winds speed reaching 45-55 kmph gusting to 65 kmph would prevail over South Assam, Meghalaya and Manipur and along & off West Bengal coast on 30th.
- (xxxi) **Expected damage over Mizoram and Tripura:** Damage to thatched huts. Minor damage to power and communication lines due to breaking of branches. Major damage to Kutcha and minor damage to Pucca roads. Some damage to paddy crops, banana, papaya trees and orchards.
- (xxxii) **Sea condition:** Sea condition would be rough to very rough along & off West Bengal Coast on 30th.
- (xxxiii) **Fishermen Warning:** Fishermen along & off West Bengal Coast are advised not to venture into sea during next 24 hours.

The next bulletin will be issued at 2330 hrs IST of 29th May 2017.

(Shambu Ravindren)
Scientist-B
RSMC, New Delhi

Copy to: DFDD, Pune/ACWC Kolkata /ACWC Chennai/CWC Vishakhapatnam/CWC Bhubaneswar/MC Hyderabad.

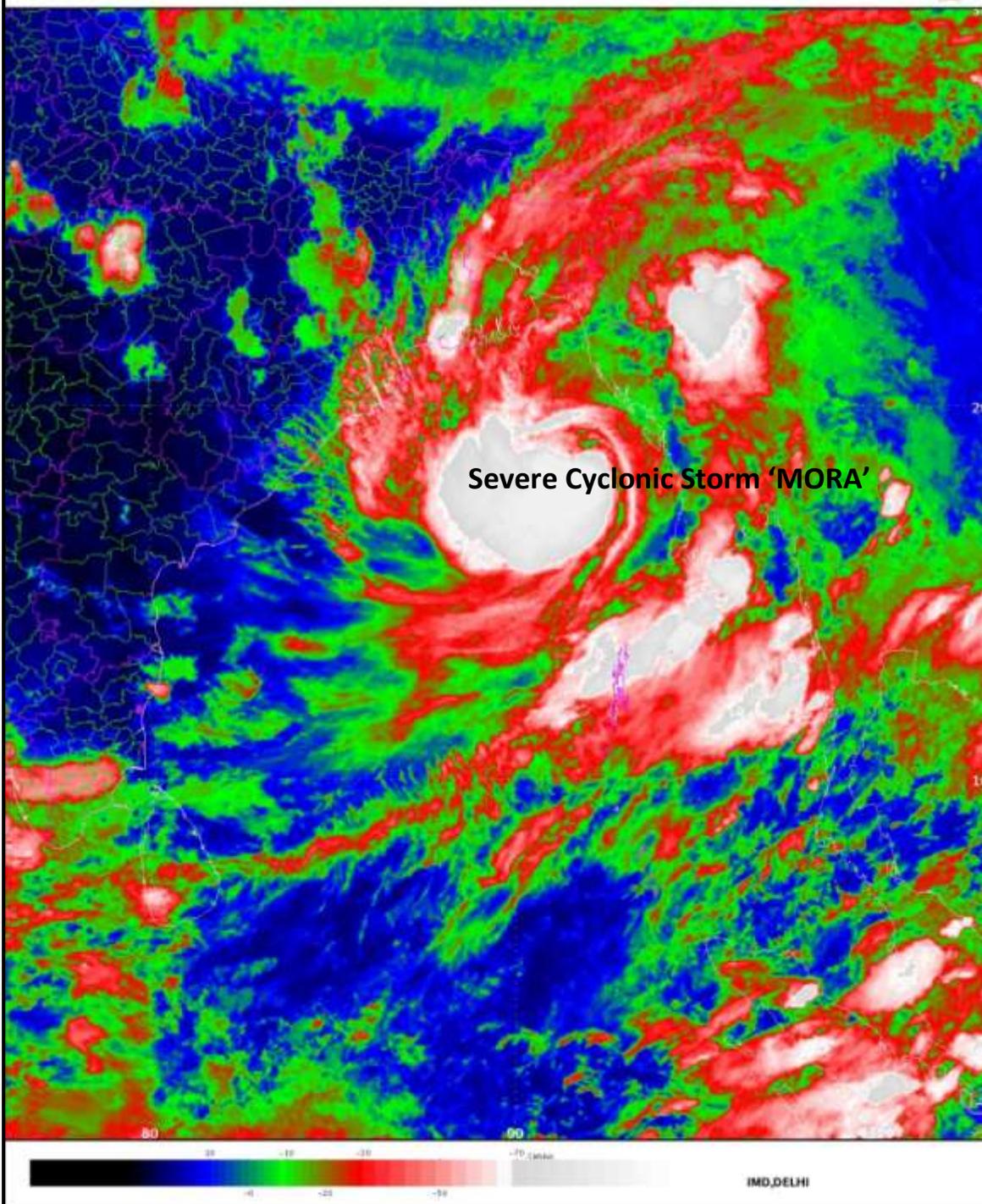
Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
Rainfall amount (mm): Heavy rain: 64.5 – 124.4, Very heavy rain: 124.5 – 244.4, Extremely heavy rain: 244.5 or more.



Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
 Rainfall amount (mm): Heavy rain: 64.5 – 124.4, Very heavy rain: 124.5 – 244.4, Extremely heavy rain: 244.5 or more.

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IMG_TIR1_TEMP 10.8 um
SECTOR BAYOFBENGAL Mercator (NHC LUT)

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



Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
Rainfall amount (mm): Heavy rain: 64.5 – 124.4, Very heavy rain: 124.5 – 244.4, Extremely heavy rain: 244.5 or more.



India Meteorological Department
Earth System Science Organisation
(Ministry of Earth Sciences)

BULLETIN NO.: 14 (BOB 02/2017)

TIME OF ISSUE: 2230 HOURS IST

DATED: 29.05.2017

FROM: INDIA METEOROLOGICAL DEPARTMENT

TO: CONTROL ROOM, NDM, MINISTRY OF HOME AFFAIRS
CONTROL ROOM NDMA
CABINET SECRETARIAT
PS TO HON'BLE MINISTER FOR S & T AND EARTH SCIENCES
SECRETARY, MOES,
SECRETARY, DST
H.Q. (INTEGRATED DEFENCE STAFF AND CDS)
DIRECTOR GENERAL, DOORDARSHAN
DIRECTOR GENERAL, AIR
PIB MOES
UNI

D.G. NATIONAL DISASTER RESPONSE FORCE (NDRF)
CHIEF SECRETARY, GOVT.OF WEST BENGAL
CHIEF SECRETARY, GOVT.OF TRIPURA
CHIEF SECRETARY, GOVT.OF MANIPUR
CHIEF SECRETARY, GOVT.OF MIZORAM
CHIEF SECRETARY, GOVT.OF NAGALAND
CHIEF SECRETARY, GOVT.OF ASSAM
CHIEF SECRETARY, GOVT.OF MEGHALAYA
CHIEF SECRETARY, GOVT.OF ARUNACHAL PRADESH
CHIEF SECRETARY, ANDAMAN & NICOBAR ISLANDS

Sub: Severe Cyclonic Storm 'MORA' over northeast & adjoining eastcentral Bay of Bengal

The severe cyclonic storm 'MORA' over northeast and adjoining eastcentral Bay of Bengal moved further northward during past 06 hours with a speed of 9 kmph, and lay centred at 2030 hrs IST of today, 29th May, 2017 over northeast & adjoining eastcentral Bay of Bengal near Latitude 18.8°N and Longitude 91.5°E, about 530 km south-southeast of Kolkata and 385 km south-southwest of Chittagong. The system is likely to slightly intensify further during next 12 hours. It is very likely to move north-northeastwards and cross Bangladesh coast near Chittagong by 30th May 2017 forenoon.

Observed and forecast track positions and intensity of the system are given below:

Date/time(IST)	Position (lat. °N/ long. °E)	Maximum sustained surface wind speed (kmph)	Category of cyclonic Disturbance
29.05.2017/2030	18.8/91.5	100-110 gusting to 120	Severe Cyclonic Storm
29.05.2017/2330	20.0/91.6	105-115 gusting to 125	Severe Cyclonic Storm
30.05.2017/0530	21.3/91.7	110-120 gusting to 130	Severe Cyclonic Storm
30.05.2017/1130	22.8/91.8	100-110 gusting to 120	Severe Cyclonic Storm
30.05.2017/1730	24.1/92.1	55-65 gusting to 75	Deep Depression
31.05.2017/0530	26.4/93.0	25-35 gusting to 45	Well Marked Low

Warning:

(xxxiv) Heavy Rainfall Warning:

30th May 2017: Rainfall at most places with heavy to very heavy rainfall at a few places and isolated extremely heavy rainfall very likely over Assam & Meghalaya. Rainfall at most places

Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
Rainfall amount (mm): Heavy rain: 64.5 – 124.4, Very heavy rain: 124.5 – 244.4, Extremely heavy rain: 244.5 or more.

with heavy to very heavy rainfall at isolated places very likely over Tripura, Mizoram, Manipur, Nagaland and Arunachal Pradesh.

31st May 2017: Rainfall at most places with heavy to very heavy rainfall at isolated places very likely over Assam & Meghalaya, Tripura, Mizoram, Manipur, Nagaland and Arunachal Pradesh.

(xxxv) Wind warning: Gale winds speed reaching 60-70 kmph gusting to 80 kmph would prevail over Mizoram and Tripura on 30th. Squally winds speed reaching 45-55 kmph gusting to 65 kmph would prevail over South Assam, Meghalaya and Manipur and along & off West Bengal coast on 30th.

(xxxvi) Expected damage over Mizoram and Tripura: Damage to thatched huts. Minor damage to power and communication lines due to breaking of branches. Major damage to Kutcha and minor damage to Pucca roads. Some damage to paddy crops, banana, papaya trees and orchards.

(xxxvii) Sea condition: Sea condition would be rough to very rough along & off West Bengal Coast on 30th.

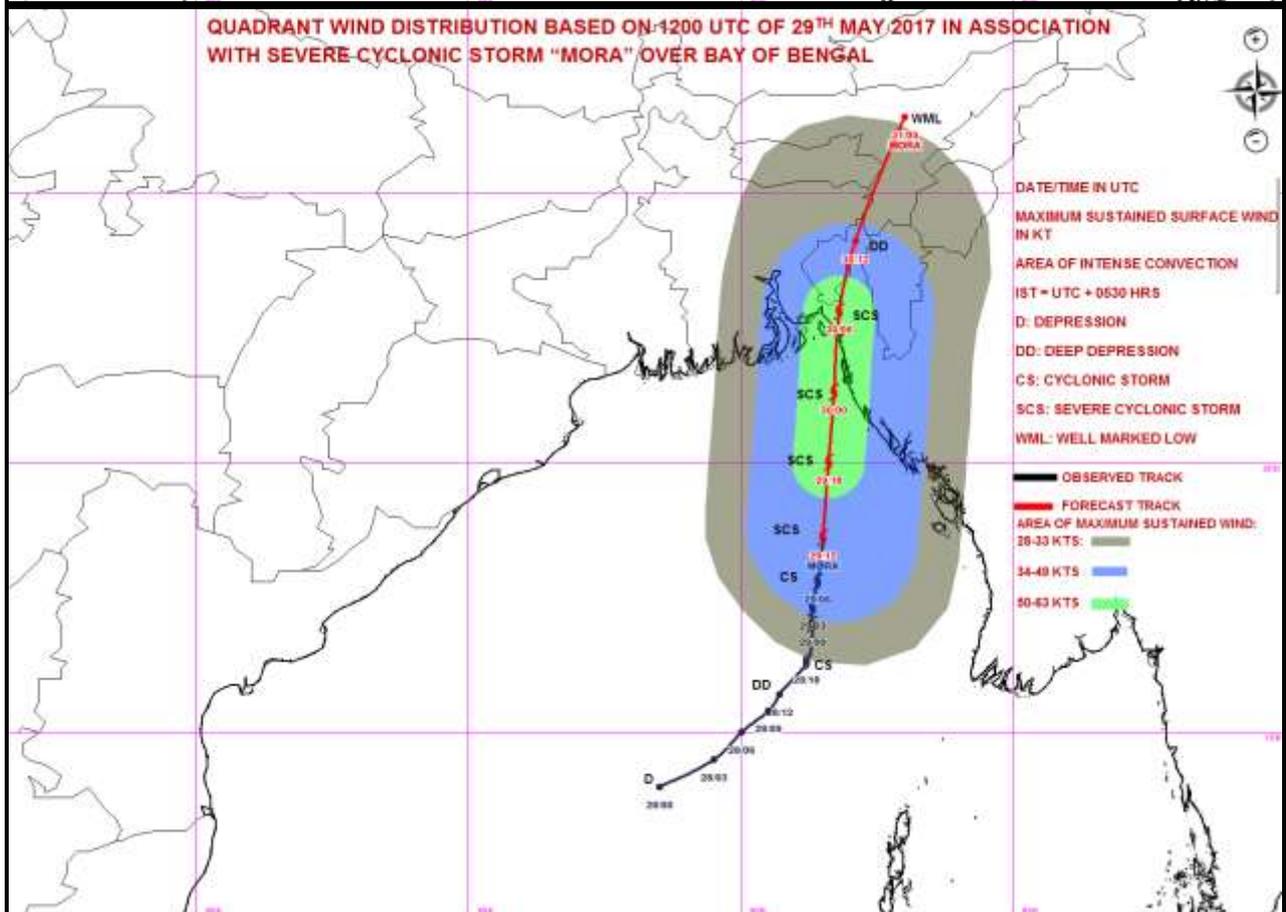
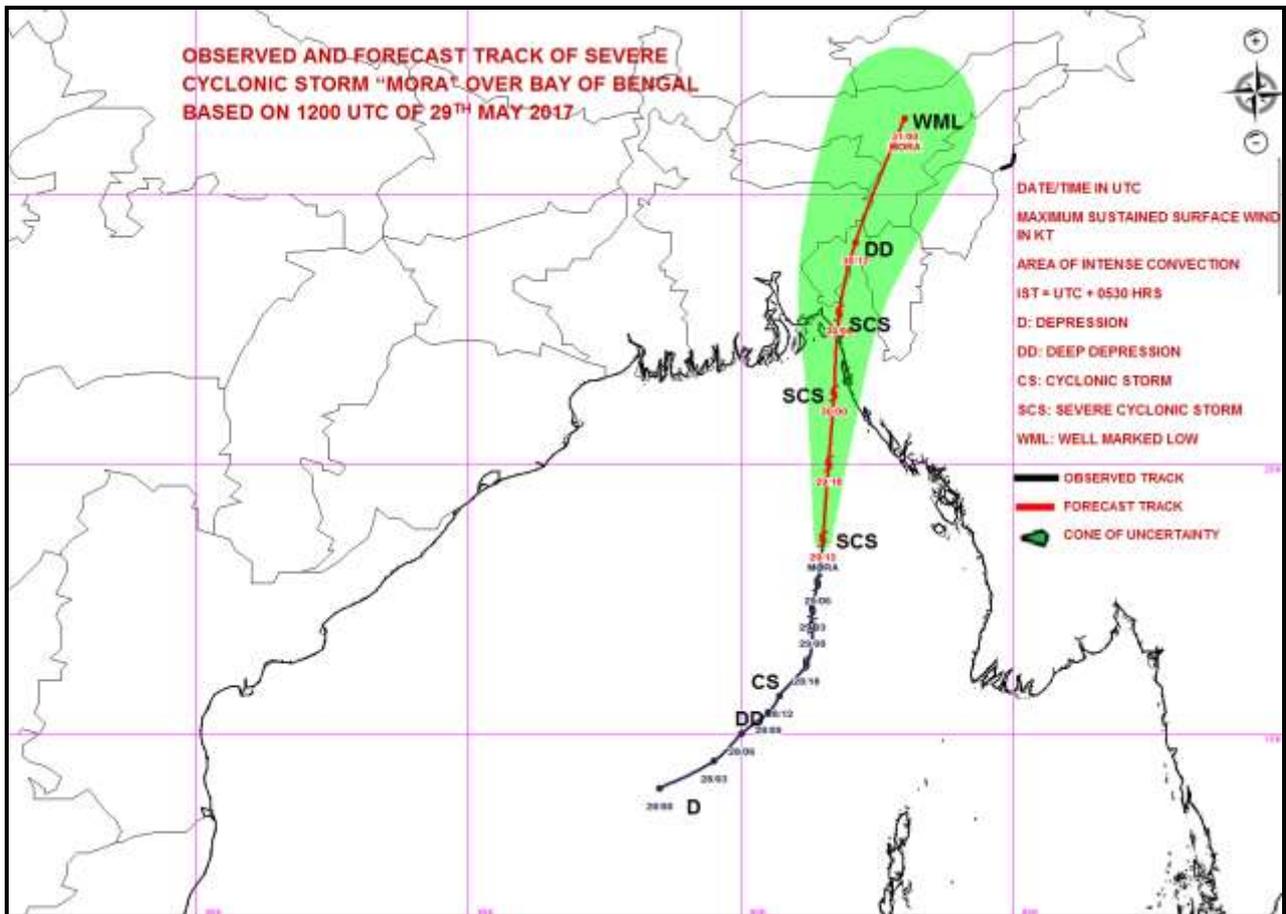
(xxxviii) Fishermen Warning: Fishermen along & off West Bengal Coast are advised not to venture into sea during next 24 hours.

The next bulletin will be issued at 0230 hrs IST of 30th May 2017.

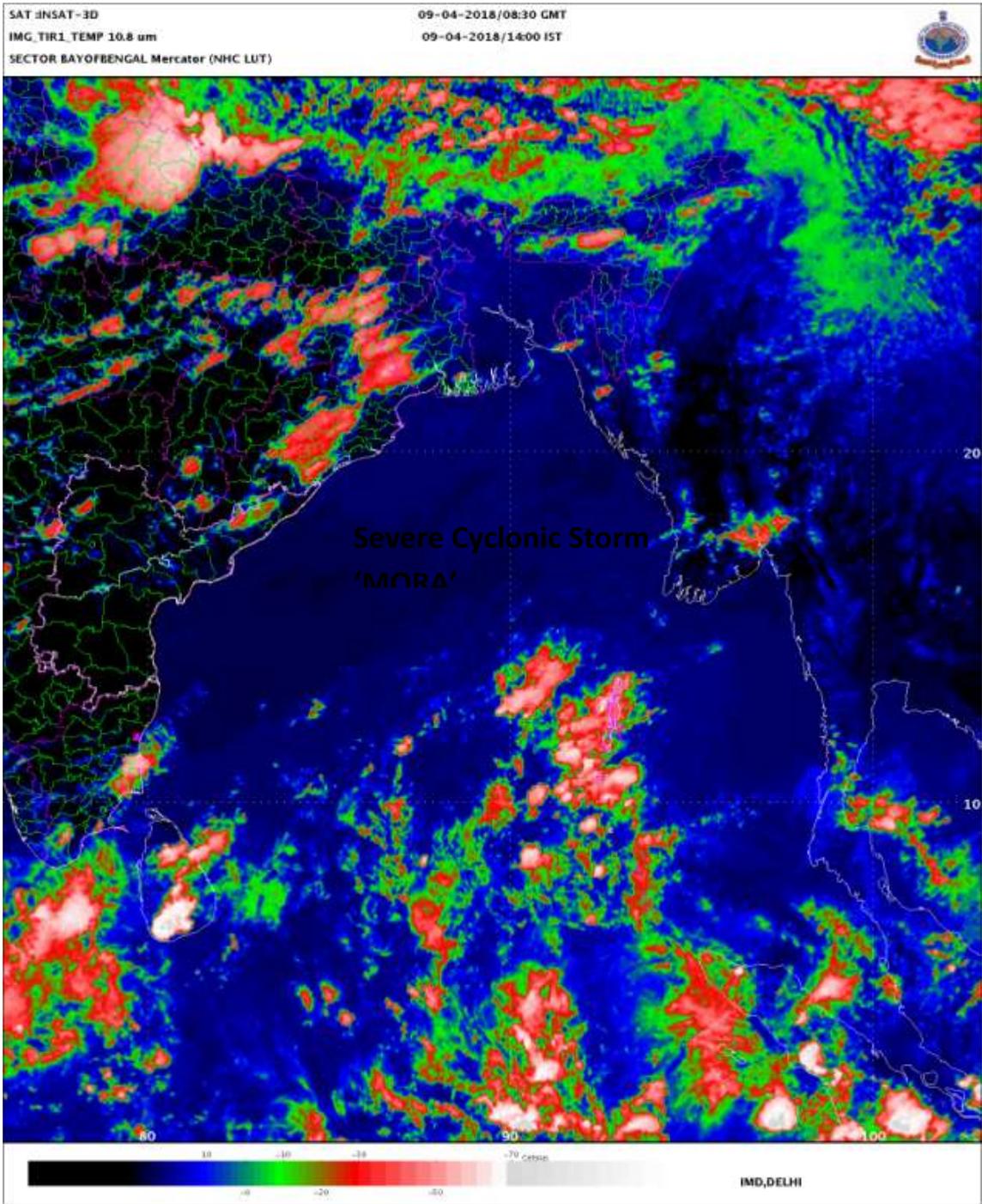
**(Shambu Ravindren)
Scientist-B
RSMC, New Delhi**

Copy to: DFDD, Pune/ACWC Kolkata /ACWC Chennai/CWC Vishakhapatnam/CWC Bhubaneswar/MC Hyderabad.

Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
Rainfall amount (mm): Heavy rain: 64.5 – 124.4, Very heavy rain: 124.5 – 244.4, Extremely heavy rain: 244.5 or more.



Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
 Rainfall amount (mm): Heavy rain: 64.5 – 124.4, Very heavy rain: 124.5 – 244.4, Extremely heavy rain: 244.5 or more.



Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
 Rainfall amount (mm): Heavy rain: 64.5 – 124.4, Very heavy rain: 124.5 – 244.4, Extremely heavy rain: 244.5 or more.



India Meteorological Department
Earth System Science Organisation
(Ministry of Earth Sciences)

BULLETIN NO.: 15 (BOB 02/2017)

TIME OF ISSUE: 0230 HOURS IST

DATED: 30.05.2017

FROM: INDIA METEOROLOGICAL DEPARTMENT

TO: CONTROL ROOM, NDM, MINISTRY OF HOME AFFAIRS
CONTROL ROOM NDMA
CABINET SECRETARIAT
PS TO HON'BLE MINISTER FOR S & T AND EARTH SCIENCES
SECRETARY, MOES,
SECRETARY, DST
H.Q. (INTEGRATED DEFENCE STAFF AND CDS)
DIRECTOR GENERAL, DOORDARSHAN
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UNI
D.G. NATIONAL DISASTER RESPONSE FORCE (NDRF)
CHIEF SECRETARY, GOVT.OF WEST BENGAL
CHIEF SECRETARY, GOVT.OF TRIPURA
CHIEF SECRETARY, GOVT.OF MANIPUR
CHIEF SECRETARY, GOVT.OF MIZORAM
CHIEF SECRETARY, GOVT.OF NAGALAND
CHIEF SECRETARY, GOVT.OF ASSAM
CHIEF SECRETARY, GOVT.OF MEGHALAYA
CHIEF SECRETARY, GOVT.OF ARUNACHAL PRADESH
CHIEF SECRETARY, ANDAMAN & NICOBAR ISLANDS

Sub: Severe Cyclonic Storm 'MORA' over northeast & adjoining eastcentral Bay of Bengal

The severe cyclonic storm 'MORA' over northeast and adjoining eastcentral Bay of Bengal moved further north northeastward during past 06 hours with a speed of 26 kmph, and lay centred at 2330 hrs IST of yesterday, 29th May, 2017 over northeast & adjoining eastcentral Bay of Bengal near Latitude 20.0°N and Longitude 91.6°E, about 440 km southeast of Kolkata and 250 km south-southwest of Chittagong. It is very likely to move north-northeastwards and cross Bangladesh coast near Chittagong by 30th May 2017 forenoon.

Observed and forecast track positions and intensity of the system are given below:

Date/time(IST)	Position (lat. °N/ long. °E)	Maximum sustained surface wind speed (kmph)	Category of cyclonic Disturbance
29.05.2017/2330	20.0/91.6	100-110 gusting to 120	Severe Cyclonic Storm
30.05.2017/0530	21.3/91.7	105-115 gusting to 125	Severe Cyclonic Storm
30.05.2017/1130	22.8/91.8	100-110 gusting to 120	Severe Cyclonic Storm
30.05.2017/1730	24.1/92.1	55-65 gusting to 75	Deep Depression
30.05.2017/2330	25.3/92.6	25-35 gusting to 45	Well Marked Low

Warning:

(xxxix) Heavy Rainfall Warning:

30th May 2017: Rainfall at most places with heavy to very heavy rainfall at a few places and isolated extremely heavy rainfall very likely over Assam & Meghalaya. Rainfall at most places with heavy to very heavy rainfall at isolated places very likely over Tripura, Mizoram, Manipur, Nagaland and Arunachal Pradesh.

Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
Rainfall amount (mm): Heavy rain: 64.5 – 124.4, Very heavy rain: 124.5 – 244.4, Extremely heavy rain: 244.5 or more.

31st May 2017: Rainfall at most places with heavy to very heavy rainfall at isolated places very likely over Assam & Meghalaya, Tripura, Mizoram, Manipur, Nagaland and Arunachal Pradesh.

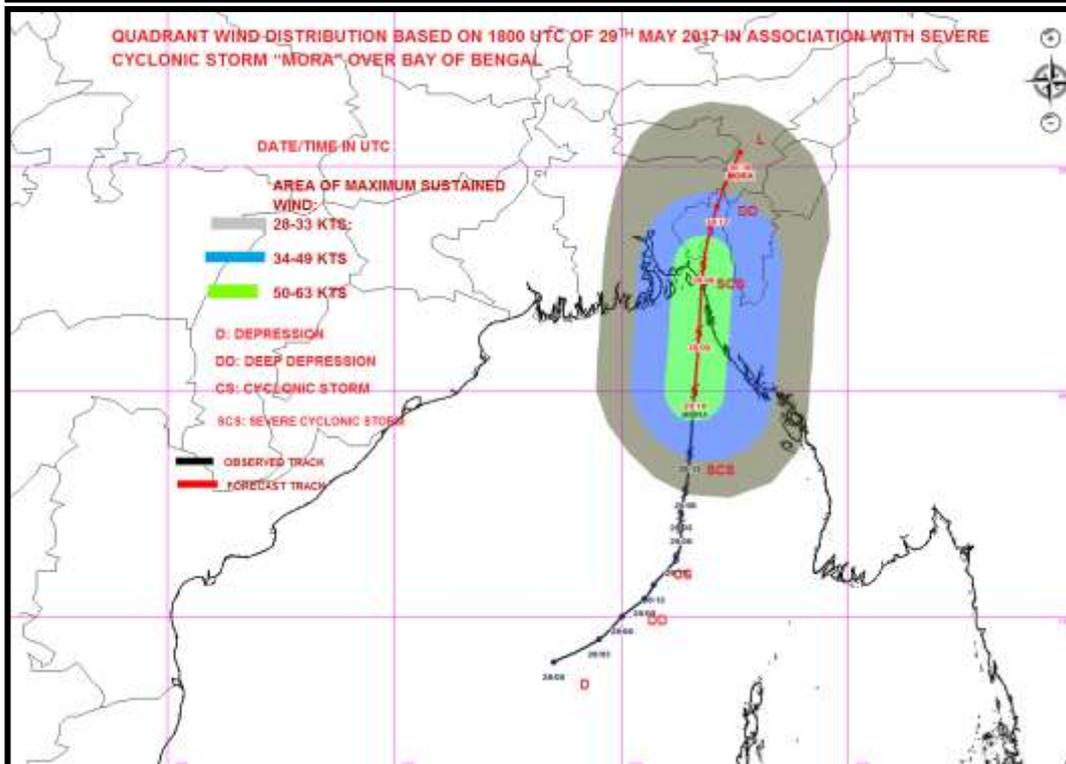
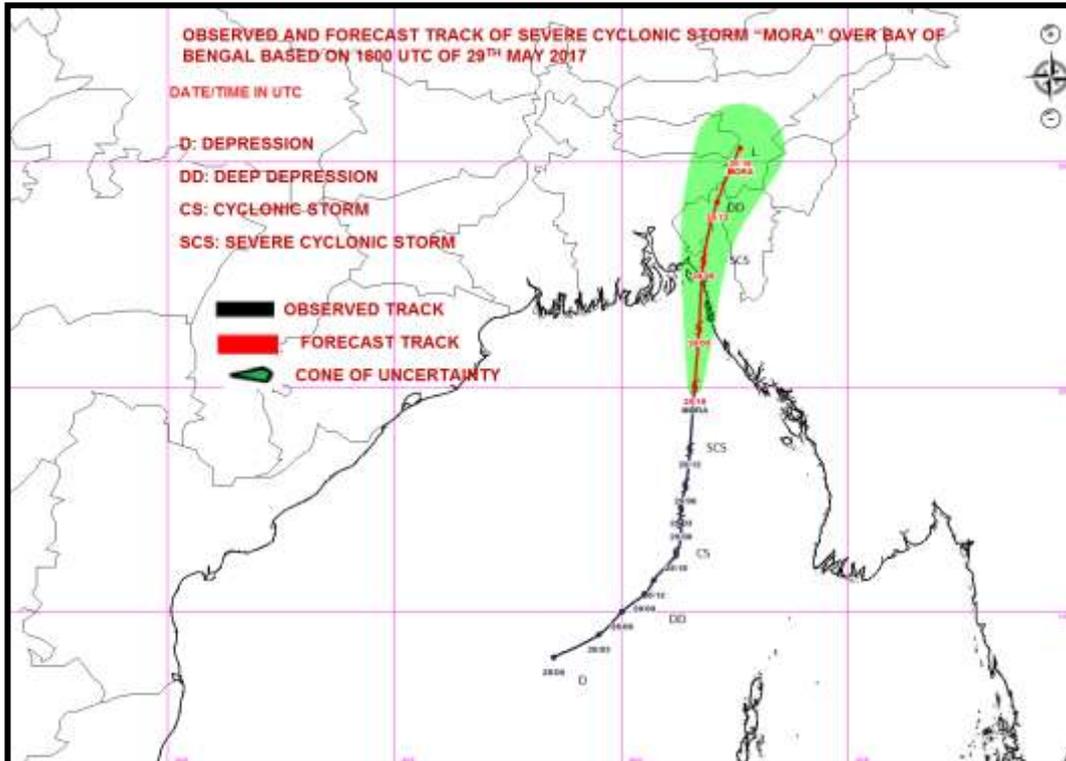
- (xi) **Wind warning:** Gale winds speed reaching 60-70 kmph gusting to 80 kmph would prevail over Mizoram and Tripura on 30th. Squally winds speed reaching 45-55 kmph gusting to 65 kmph would prevail over South Assam, Meghalaya and Manipur and along & off West Bengal coast on 30th.
- (xli) **Expected damage over Mizoram and Tripura:** Damage to thatched huts. Minor damage to power and communication lines due to breaking of branches. Major damage to Kutcha and minor damage to Pucca roads. Some damage to paddy crops, banana, papaya trees and orchards.
- (xlii) **Sea condition:** Sea condition would be rough to very rough along & off West Bengal Coast on 30th.
- (xliii) **Fishermen Warning:** Fishermen along & off West Bengal Coast are advised not to venture into sea during next 24 hours.

The next bulletin will be issued at 0530 hrs IST of 30th May 2017.

(Shambu Ravindren)
Scientist-B
RSMC, New Delhi

Copy to: DFDD, Pune/ACWC Kolkata /ACWC Chennai/CWC Vishakhapatnam/CWC Bhubaneswar/MC Hyderabad.

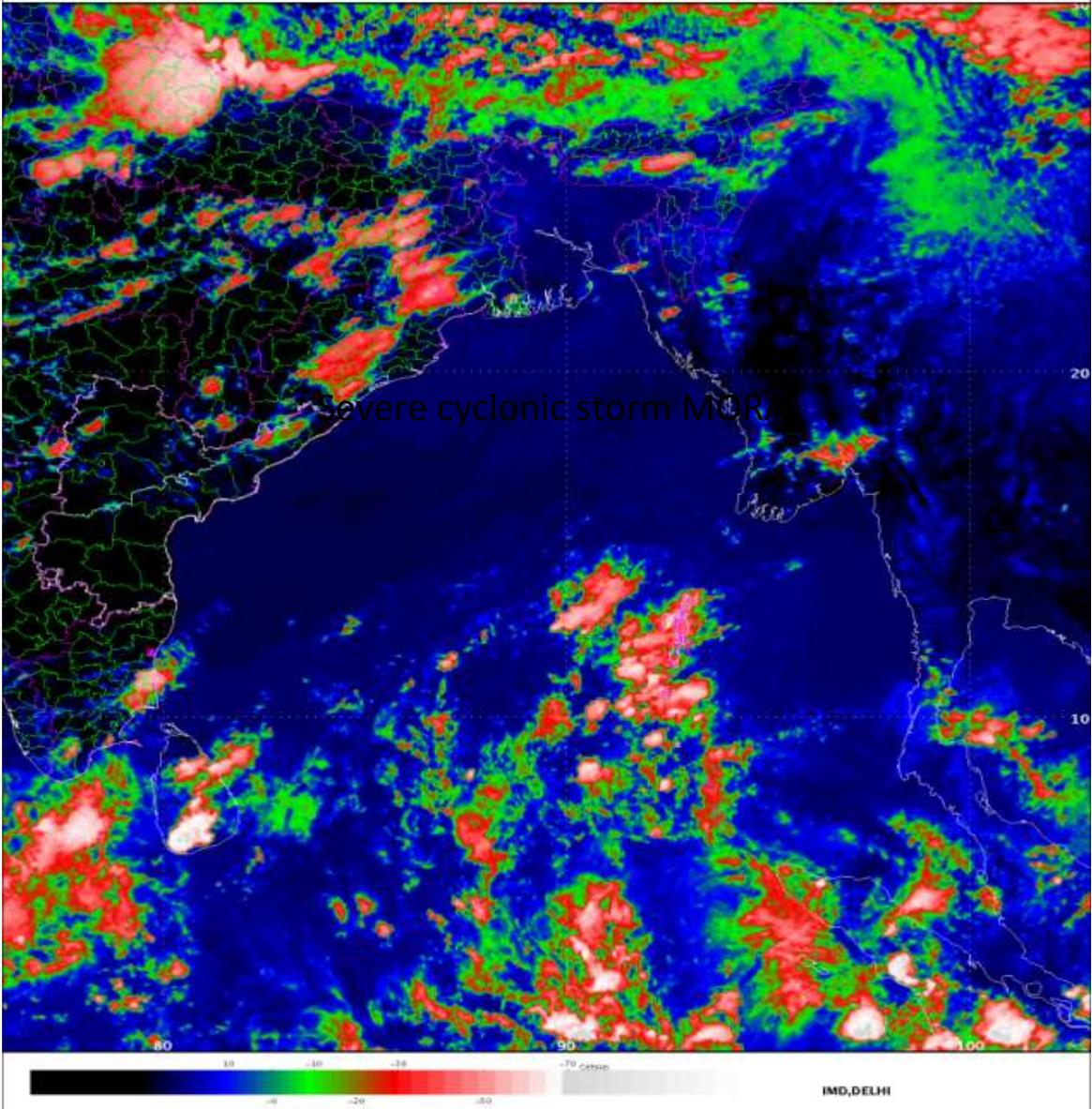
Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
Rainfall amount (mm): Heavy rain: 64.5 – 124.4, Very heavy rain: 124.5 – 244.4, Extremely heavy rain: 244.5 or more.



Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
 Rainfall amount (mm): Heavy rain: 64.5 – 124.4, Very heavy rain: 124.5 – 244.4, Extremely heavy rain: 244.5 or more.

SAT INSAT-3D
IMG_TIR1_TEMP 10.8 um
SECTOR BAYOFBENGAL Mercator (NHC LUT)

09-04-2018/08:30 GMT
09-04-2018/14:00 IST



Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
Rainfall amount (mm): Heavy rain: 64.5 – 124.4, Very heavy rain: 124.5 – 244.4, Extremely heavy rain: 244.5 or more.



India Meteorological Department
Earth System Science Organisation
(Ministry of Earth Sciences)

BULLETIN NO.: 16 (BOB 02/2017)

TIME OF ISSUE: 0400 HOURS IST

DATED: 30.05.2017

FROM: INDIA METEOROLOGICAL DEPARTMENT

TO: CONTROL ROOM, NDM, MINISTRY OF HOME AFFAIRS
CONTROL ROOM NDMA
CABINET SECRETARIAT
PS TO HON'BLE MINISTER FOR S & T AND EARTH SCIENCES
SECRETARY, MOES,
SECRETARY, DST
H.Q. (INTEGRATED DEFENCE STAFF AND CDS)
DIRECTOR GENERAL, DOORDARSHAN
DIRECTOR GENERAL, AIR
PIB MOES
UNI
D.G. NATIONAL DISASTER RESPONSE FORCE (NDRF)
CHIEF SECRETARY, GOVT.OF WEST BENGAL
CHIEF SECRETARY, GOVT.OF TRIPURA
CHIEF SECRETARY, GOVT.OF MANIPUR
CHIEF SECRETARY, GOVT.OF MIZORAM
CHIEF SECRETARY, GOVT.OF NAGALAND
CHIEF SECRETARY, GOVT.OF ASSAM
CHIEF SECRETARY, GOVT.OF MEGHALAYA
CHIEF SECRETARY, GOVT.OF ARUNACHAL PRADESH
CHIEF SECRETARY, ANDAMAN & NICOBAR ISLANDS

Sub: Severe Cyclonic Storm 'MORA' over northeast Bay of Bengal

The severe cyclonic storm 'MORA' over northeast and adjoining eastcentral Bay of Bengal moved further north northeastward during past 06 hours with a speed of 28 kmph, and lay centred at 0230 hrs IST of today, 30th May, 2017 over northeast Bay of Bengal near Latitude 20.3°N and Longitude 91.6°E, about 420 km southeast of Kolkata and 220 km south-southwest of Chittagong. It is very likely to move north-northeastwards and cross Bangladesh coast near Chittagong by 30th May 2017 forenoon.

Observed and forecast track positions and intensity of the system are given below:

Date/time(IST)	Position (lat. °N/ long. °E)	Maximum sustained surface wind speed (kmph)	Category of cyclonic Disturbance
30.05.2017/0230	20.3/91.6	100-110 gusting to 120	Severe Cyclonic Storm
30.05.2017/0530	21.3/91.7	105-115 gusting to 125	Severe Cyclonic Storm
30.05.2017/1130	22.8/91.8	100-110 gusting to 120	Severe Cyclonic Storm
30.05.2017/1730	24.1/92.1	55-65 gusting to 75	Deep Depression
30.05.2017/2330	25.3/92.6	25-35 gusting to 45	Well Marked Low

Warning:

(xliv) Heavy Rainfall Warning:

30th May 2017: Rainfall at most places with heavy to very heavy rainfall at a few places and isolated extremely heavy rainfall very likely over Assam & Meghalaya. Rainfall at most places with heavy to very heavy rainfall at isolated places very likely over Tripura, Mizoram, Manipur, Nagaland and Arunachal Pradesh.

Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
Rainfall amount (mm): Heavy rain: 64.5 – 124.4, Very heavy rain: 124.5 – 244.4, Extremely heavy rain: 244.5 or more.

31st May 2017: Rainfall at most places with heavy to very heavy rainfall at isolated places very likely over Assam & Meghalaya, Tripura, Mizoram, Manipur, Nagaland and Arunachal Pradesh.

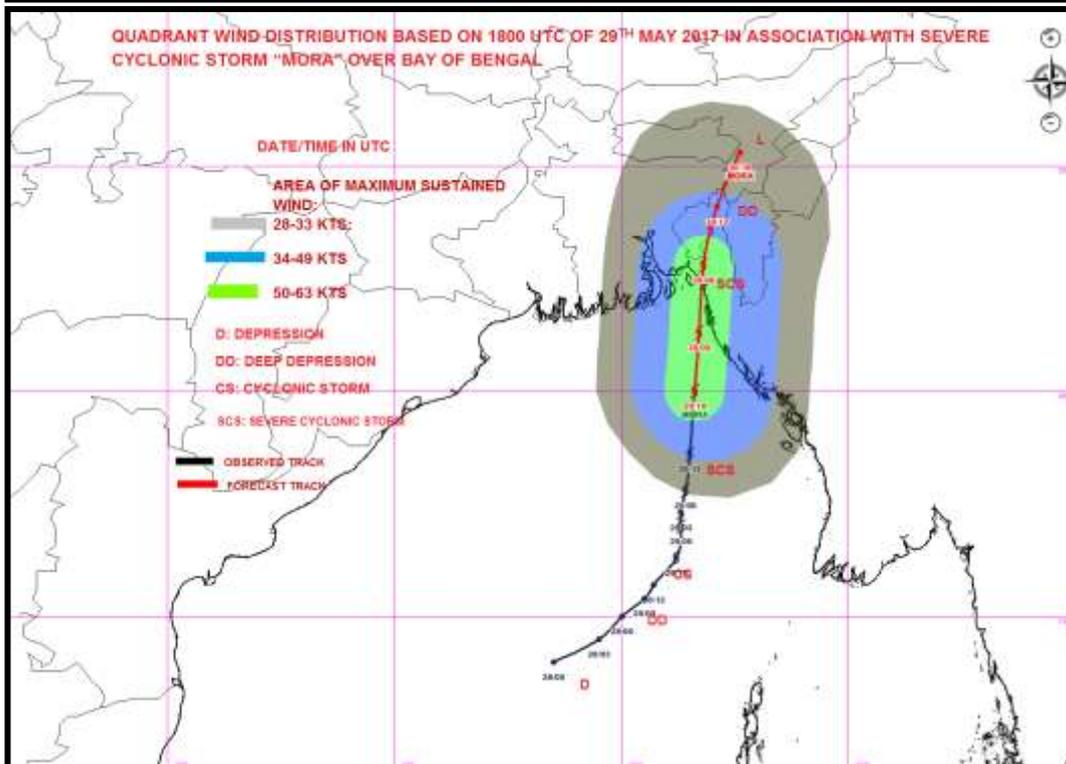
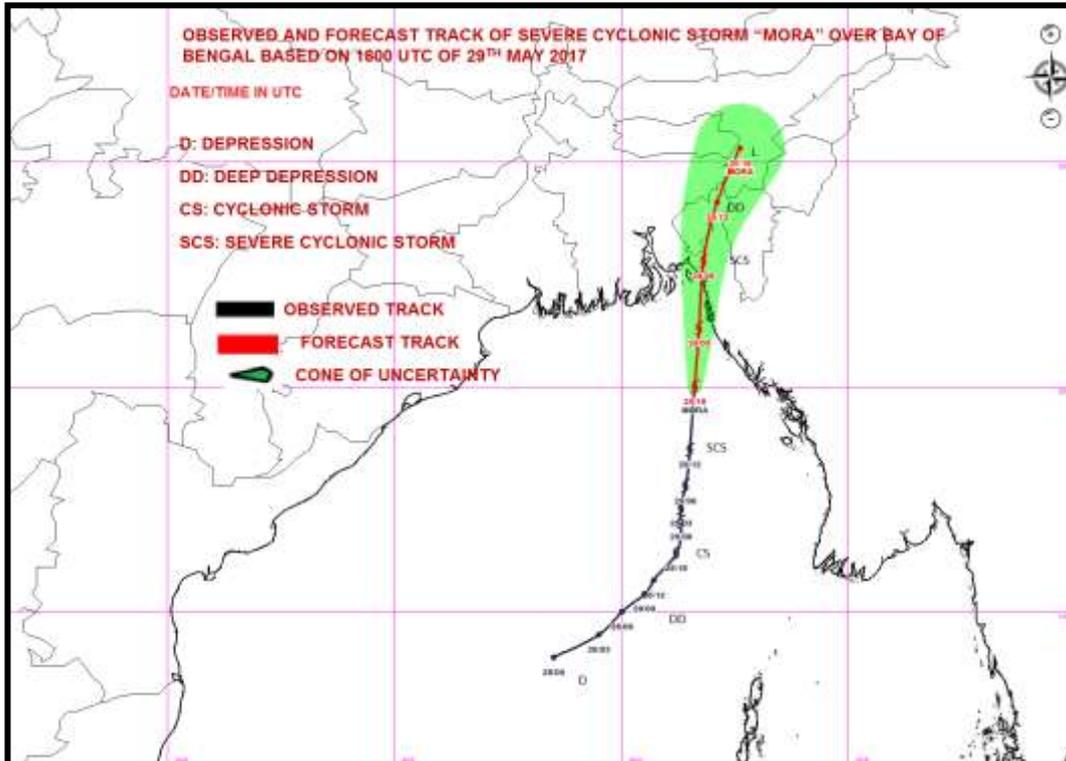
- (xlv) **Wind warning:** Gale winds speed reaching 60-70 kmph gusting to 80 kmph would prevail over Mizoram and Tripura on 30th. Squally winds speed reaching 45-55 kmph gusting to 65 kmph would prevail over South Assam, Meghalaya and Manipur and along & off West Bengal coast on 30th.
- (xlvi) **Expected damage over Mizoram and Tripura:** Damage to thatched huts. Minor damage to power and communication lines due to breaking of branches. Major damage to Kutcha and minor damage to Pucca roads. Some damage to paddy crops, banana, papaya trees and orchards.
- (xlvii) **Sea condition:** Sea condition would be rough to very rough along & off West Bengal Coast on 30th.
- (xlviii) **Fishermen Warning:** Fishermen along & off West Bengal Coast are advised not to venture into sea during next 24 hours.

The next bulletin will be issued at 0830 hrs IST of 30th May 2017.

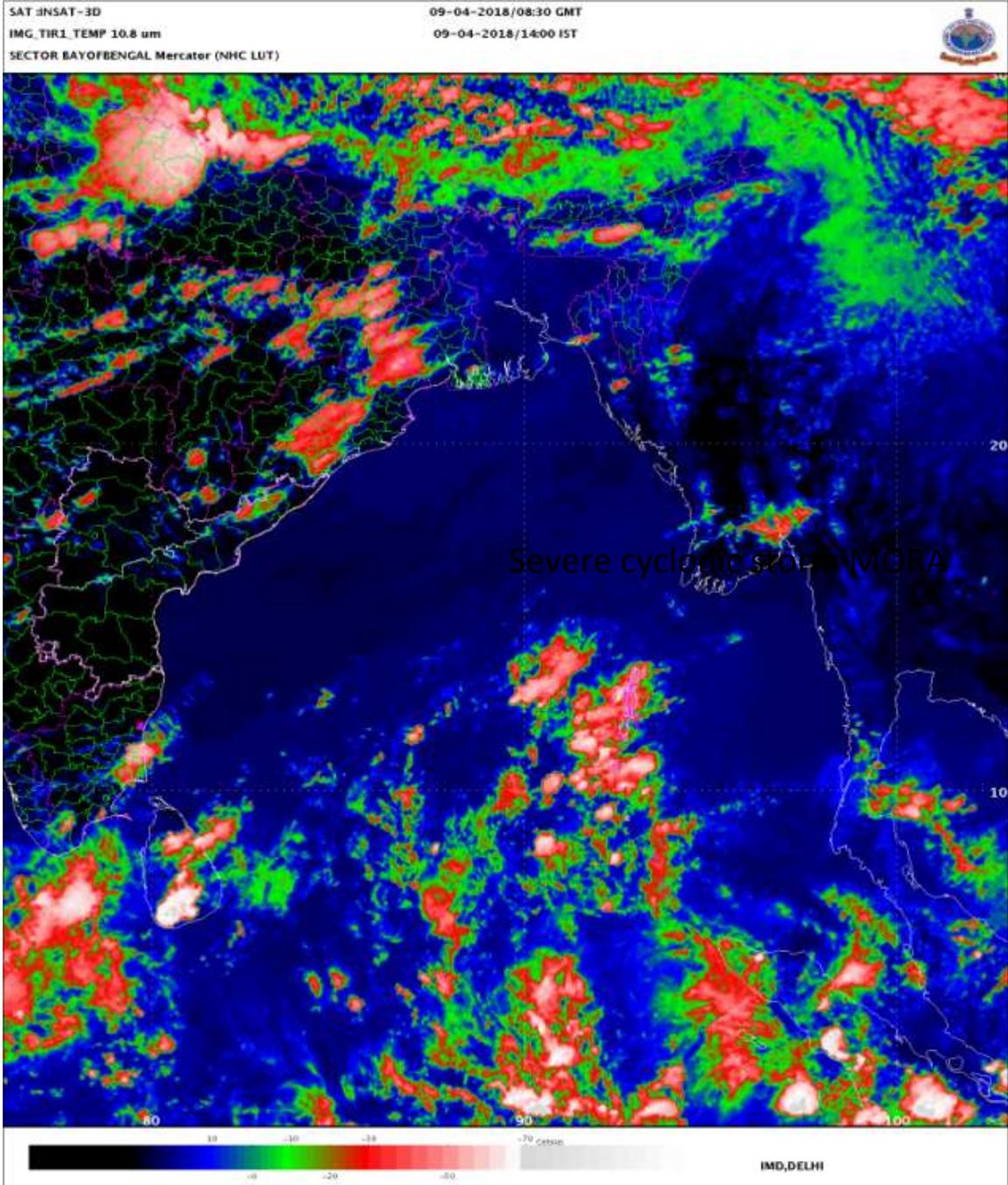
(Shambu Ravindren)
Scientist-B
RSMC, New Delhi

Copy to: DFDD, Pune/ACWC Kolkata /ACWC Chennai/CWC Vishakhapatnam/CWC Bhubaneswar/MC Hyderabad.

Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
Rainfall amount (mm): Heavy rain: 64.5 – 124.4, Very heavy rain: 124.5 – 244.4, Extremely heavy rain: 244.5 or more.



Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
 Rainfall amount (mm): Heavy rain: 64.5 – 124.4, Very heavy rain: 124.5 – 244.4, Extremely heavy rain: 244.5 or more.



Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
 Rainfall amount (mm): Heavy rain: 64.5 – 124.4, Very heavy rain: 124.5 – 244.4, Extremely heavy rain: 244.5 or more.



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

BULLETIN NO.: 17 (BOB 02/2017)

TIME OF ISSUE: 0800 HOURS IST

DATED: 30.05.2017

FROM: INDIA METEOROLOGICAL DEPARTMENT

**TO: CONTROL ROOM, NDM, MINISTRY OF HOME AFFAIRS
CONTROL ROOM NDMA
CABINET SECRETARIAT
PS TO HON'BLE MINISTER FOR S & T AND EARTH SCIENCES
SECRETARY, MOES,
SECRETARY, DST
H.Q. (INTEGRATED DEFENCE STAFF AND CDS)
DIRECTOR GENERAL, DOORDARSHAN
DIRECTOR GENERAL, AIR
PIB MOES
UNI**

**D.G. NATIONAL DISASTER RESPONSE FORCE (NDRF)
CHIEF SECRETARY, GOVT.OF WEST BENGAL
CHIEF SECRETARY, GOVT.OF TRIPURA
CHIEF SECRETARY, GOVT.OF MANIPUR
CHIEF SECRETARY, GOVT.OF MIZORAM
CHIEF SECRETARY, GOVT.OF NAGALAND
CHIEF SECRETARY, GOVT.OF ASSAM
CHIEF SECRETARY, GOVT.OF MEGHALAYA
CHIEF SECRETARY, GOVT.OF ARUNACHAL PRADESH
CHIEF SECRETARY, ANDAMAN & NICOBAR ISLANDS**

Sub: Severe Cyclonic Storm 'MORA' over northeast Bay of Bengal

The severe cyclonic storm '**MORA**' over northeast Bay of Bengal moved further north-northeastward during past 06 hours with a speed of 20 kmph, and lay centred at 0530 hrs IST of today, the 30th May, 2017 over northeast Bay of Bengal near Latitude 21.1°N and Longitude 91.8°E, about 40 km south-southwest of Cox's Bazar and 130 km south of Chittagong. It is very likely to move north-northeastwards and cross Bangladesh coast near Chittagong by today, the 30th May 2017 forenoon.

Observed and forecast track positions and intensity of the system are given below:

Date/time(IST)	Position (lat. °N/ long. °E)	Maximum sustained surface wind speed (kmph)	Category of cyclonic Disturbance
30.05.2017/0530	21.1/91.8	105-115 gusting to 125	Severe Cyclonic Storm
30.05.2017/1130	22.6/91.9	100-110 gusting to 120	Severe Cyclonic Storm
30.05.2017/1730	24.0/92.2	55-65 gusting to 75	Deep Depression
30.05.2017/2330	25.3/92.8	25-35 gusting to 45	Well Marked Low

Warning:

(xlix) Heavy Rainfall Warning:

30th May 2017: Rainfall at most places with heavy to very heavy rainfall at a few places and isolated extremely heavy rainfall very likely over Assam & Meghalaya. Rainfall at most places with heavy to very heavy rainfall at isolated places very likely over Tripura, Mizoram, Manipur, Nagaland and Arunachal Pradesh.

Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
Rainfall amount (mm): Heavy rain: 64.5 – 124.4, Very heavy rain: 124.5 – 244.4, Extremely heavy rain: 244.5 or more.

31st May 2017: Rainfall at most places with heavy to very heavy rainfall at isolated places very likely over Assam & Meghalaya, Tripura, Mizoram, Manipur, Nagaland and Arunachal Pradesh.

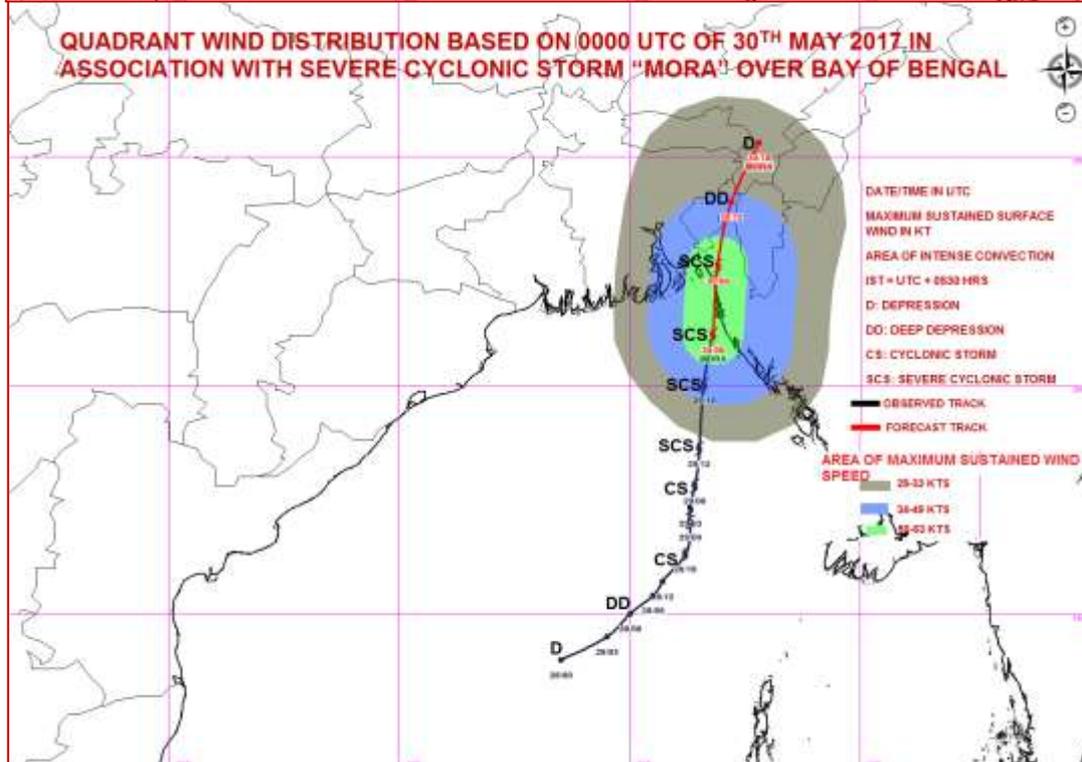
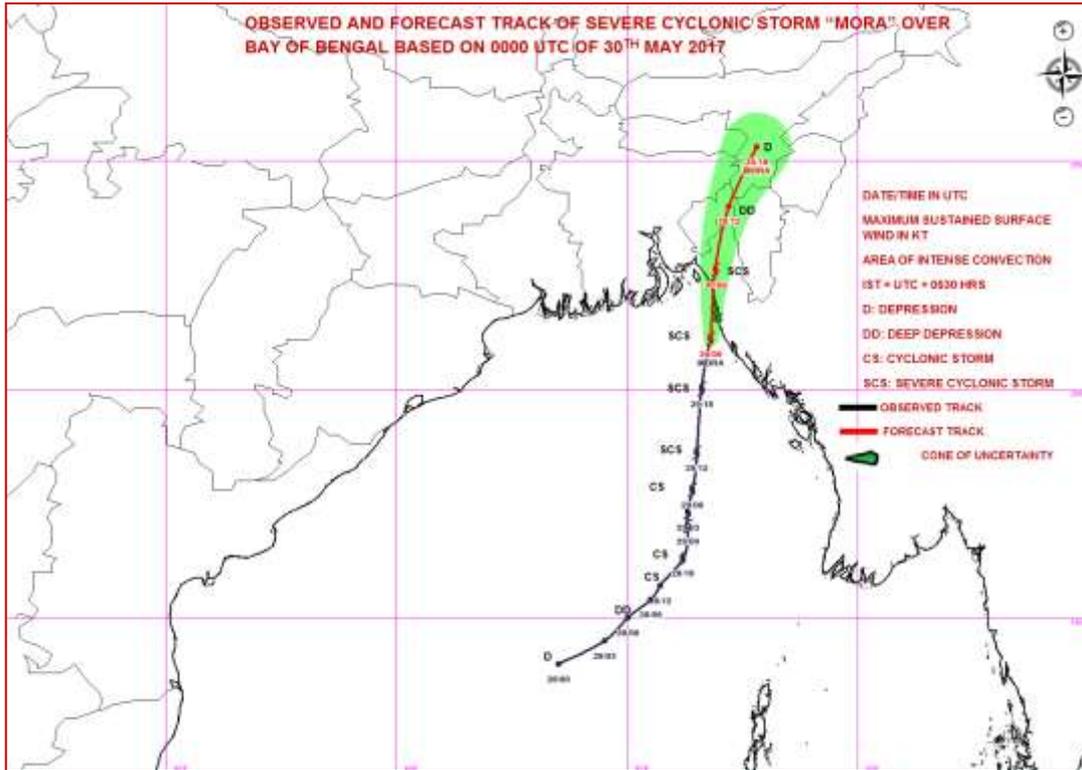
- (I) **Wind warning:** Gale winds speed reaching 60-70 kmph gusting to 80 kmph would prevail over Mizoram and Tripura during next 24 hours. Squally winds speed reaching 45-55 kmph gusting to 65 kmph would prevail over South Assam, Meghalaya & Manipur and along & off West Bengal coast during next 24 hours.
- (li) **Expected damage over Mizoram and Tripura:** Damage to thatched huts. Minor damage to power and communication lines due to breaking of branches. Major damage to Kutcha and minor damage to Pucca roads. Some damage to paddy crops, banana, papaya trees and orchards.
- (lii) **Sea condition:** Sea condition would be rough to very rough along & off West Bengal Coast during next 12 hours.
- (liii) **Fishermen Warning:** Fishermen along & off West Bengal Coast are advised not to venture into sea during next 12 hours.

The next bulletin will be issued at 1130 hrs IST of 30th May 2017.

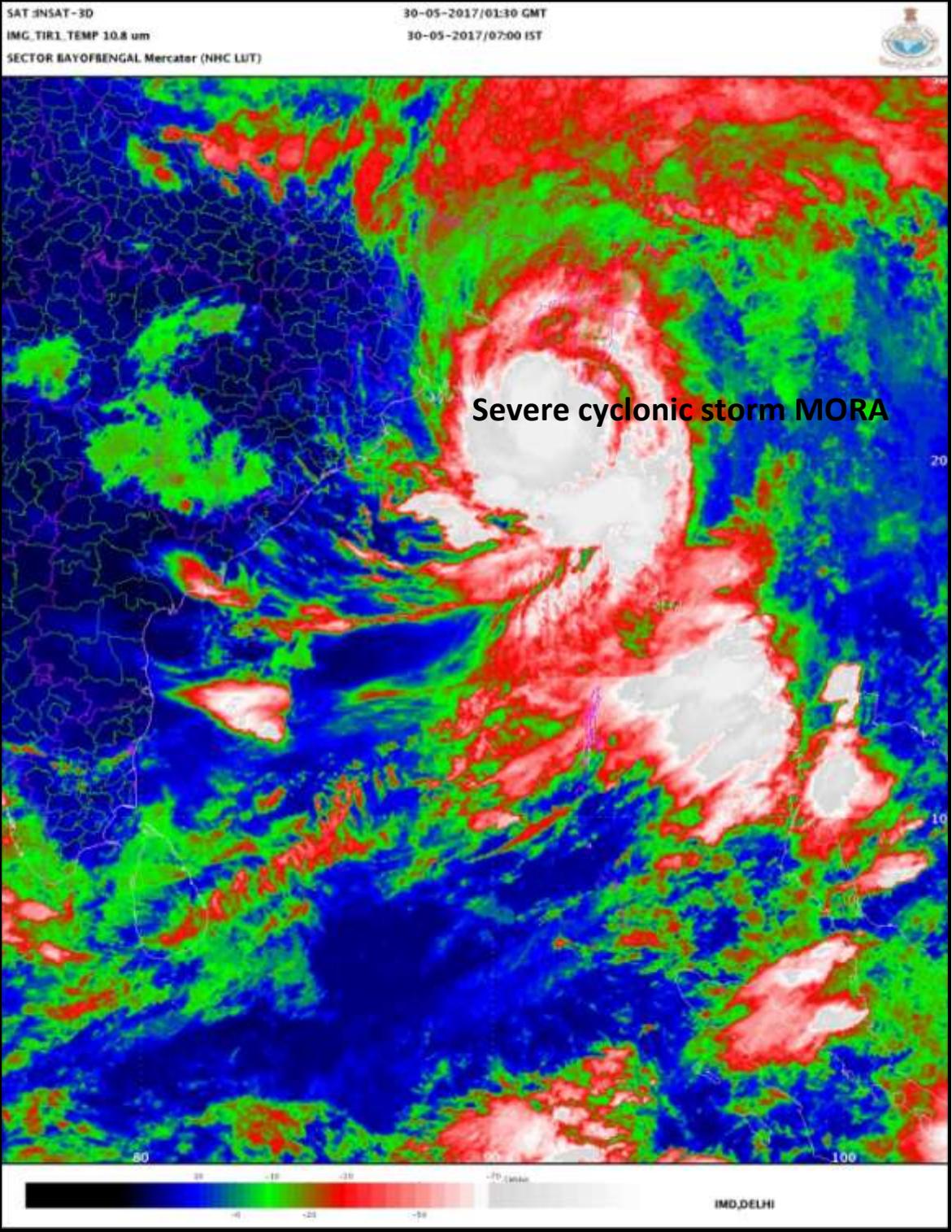
(Naresh Kumar)
Scientist-D
RSMC, New Delhi

Copy to: DFDD, Pune/ACWC Kolkata /ACWC Chennai/CWC Vishakhapatnam/CWC Bhubaneswar/MC Hyderabad.

Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
Rainfall amount (mm): Heavy rain: 64.5 – 124.4, Very heavy rain: 124.5 – 244.4, Extremely heavy rain: 244.5 or more.



Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
 Rainfall amount (mm): Heavy rain: 64.5 – 124.4, Very heavy rain: 124.5 – 244.4, Extremely heavy rain: 244.5 or more.



Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
 Rainfall amount (mm): Heavy rain: 64.5 – 124.4, Very heavy rain: 124.5 – 244.4, Extremely heavy rain: 244.5 or more.



India Meteorological Department
Earth System Science Organisation
(Ministry of Earth Sciences)

BULLETIN NO.: 18 (BOB 02/2017)

TIME OF ISSUE: 1130 HOURS IST

DATED: 30.05.2017

FROM: INDIA METEOROLOGICAL DEPARTMENT

TO: CONTROL ROOM, NDM, MINISTRY OF HOME AFFAIRS
CONTROL ROOM NDMA
CABINET SECRETARIAT
PS TO HON'BLE MINISTER FOR S & T AND EARTH SCIENCES
SECRETARY, MOES,
SECRETARY, DST
H.Q. (INTEGRATED DEFENCE STAFF AND CDS)
DIRECTOR GENERAL, DOORDARSHAN
DIRECTOR GENERAL, AIR
PIB MOES
UNI
D.G. NATIONAL DISASTER RESPONSE FORCE (NDRF)
CHIEF SECRETARY, GOVT.OF WEST BENGAL
CHIEF SECRETARY, GOVT.OF TRIPURA
CHIEF SECRETARY, GOVT.OF MANIPUR
CHIEF SECRETARY, GOVT.OF MIZORAM
CHIEF SECRETARY, GOVT.OF NAGALAND
CHIEF SECRETARY, GOVT.OF ASSAM
CHIEF SECRETARY, GOVT.OF MEGHALAYA
CHIEF SECRETARY, GOVT.OF ARUNACHAL PRADESH
CHIEF SECRETARY, ANDAMAN & NICOBAR ISLANDS

Sub: Severe Cyclonic Storm 'MORA' crossed Bangladesh coast close to south of Chittagong

The severe cyclonic storm 'MORA' over northeast Bay of Bengal moved further north-northeastward during past 06 hours with a speed of 28 kmph and lay centred at 0830 hrs IST of today, the 30th May, 2017 over Bangladesh coast near Latitude 21.8°N and Longitude 91.9°E, about 50 km south of Chittagong and close to Kutubdia Island. Latest observations indicate that it crossed Bangladesh coast near Latitude 21.95°N and Longitude 91.9°E, about 30 km south of Chittagong between 0730 and 0930 hours IST, and lay centred at 0930 hours IST of today, the 30th May, 2017 over coastal Bangladesh near Latitude 22.0°N and Longitude 91.9°E as a severe cyclonic storm.

It is very likely to continue to move north-northeastwards towards northeastern states and weaken into a cyclonic storm during next six hours and into a deep depression in subsequent six hrs.

Observed and forecast track positions and intensity of the system are given below:

Date/time(IST)	Position (lat. °N/ long. °E)	Maximum sustained surface wind speed (kmph)	Category of cyclonic Disturbance
30.05.2017/0830	21.8/91.9	105-115 gusting to 125	Severe Cyclonic Storm
30.05.2017/1130	22.6/92.1	100-110 gusting to 120	Severe Cyclonic Storm
30.05.2017/1730	24.0/92.4	55-65 gusting to 75	Deep Depression
30.05.2017/2330	25.3/92.9	30-40 gusting to 50	Depression

Warning:

(liv) Heavy Rainfall Warning:

30th May 2017: Rainfall at most places with heavy to very heavy rainfall at a few places and isolated extremely heavy rainfall very likely over Assam & Meghalaya. Rainfall at most places

Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
Rainfall amount (mm): Heavy rain: 64.5 – 124.4, Very heavy rain: 124.5 – 244.4, Extremely heavy rain: 244.5 or more.

with heavy to very heavy rainfall at isolated places very likely over Tripura, Mizoram, Manipur, Nagaland and Arunachal Pradesh.

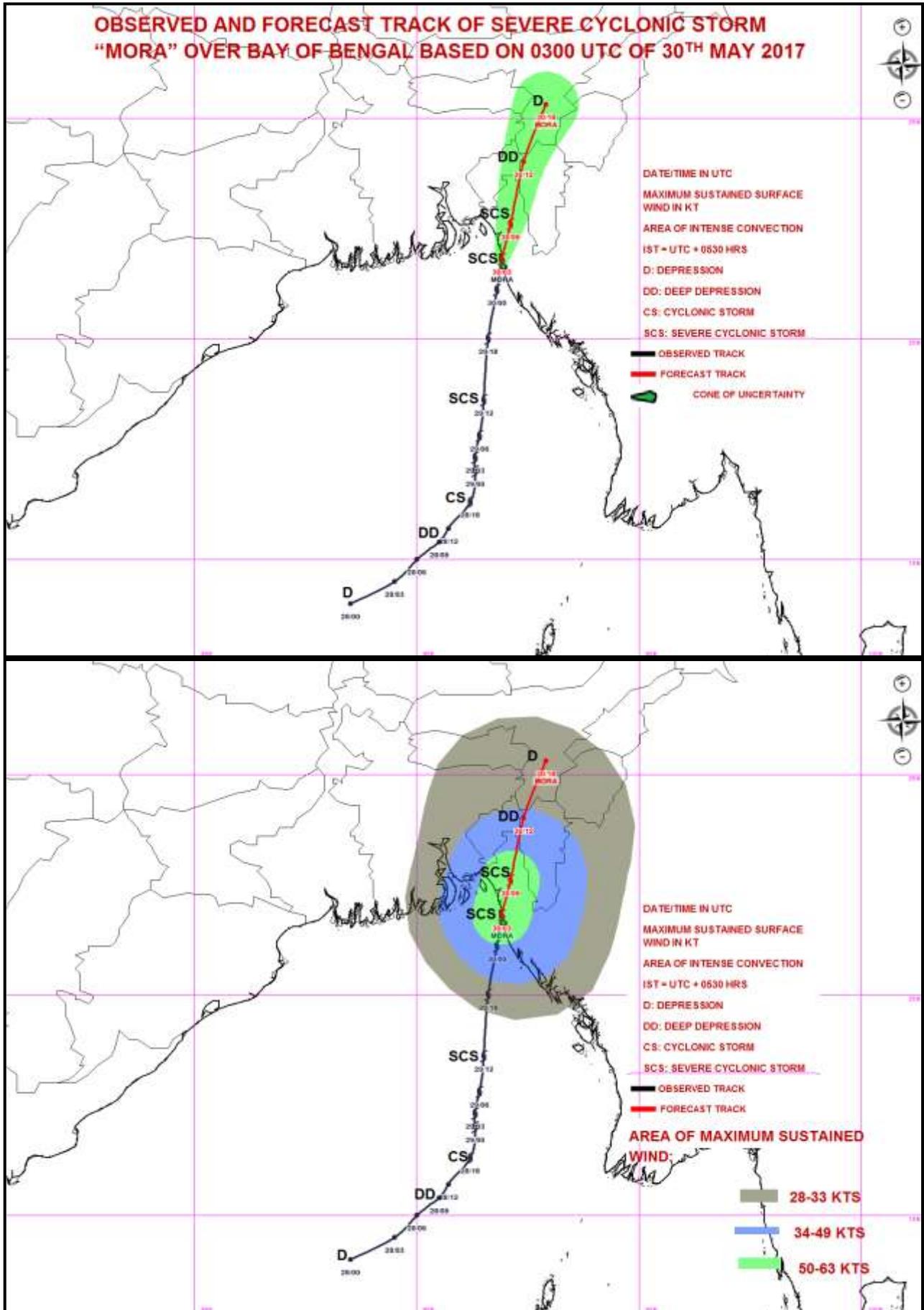
31st May 2017: Rainfall at most places with heavy to very heavy rainfall at isolated places very likely over Assam & Meghalaya, Tripura, Mizoram, Manipur, Nagaland and Arunachal Pradesh.

- (Iv) **Wind warning:** Gale winds speed reaching 60-70 kmph gusting to 80 kmph would prevail over Mizoram and Tripura during next 24 hours. Squally winds speed reaching 45-55 kmph gusting to 65 kmph would prevail over South Assam, Meghalaya & Manipur and along & off West Bengal coast during next 24 hours.
- (Ivi) **Expected damage over Mizoram and Tripura:** Damage to thatched huts. Minor damage to power and communication lines due to breaking of branches. Major damage to Kutcha and minor damage to Pucca roads. Some damage to paddy crops, banana, papaya trees and orchards.
- (Ivii) **Sea condition:** Sea condition would be rough to very rough along & off West Bengal Coast during next 06 hours.
- (Iviii) **Fishermen Warning:** Fishermen along & off West Bengal Coast are advised not to venture into sea during next 06 hours.

The next bulletin will be issued at 1430 hrs IST of 30th May 2017.

(Naresh Kumar)
Scientist-D
RSMC, New Delhi

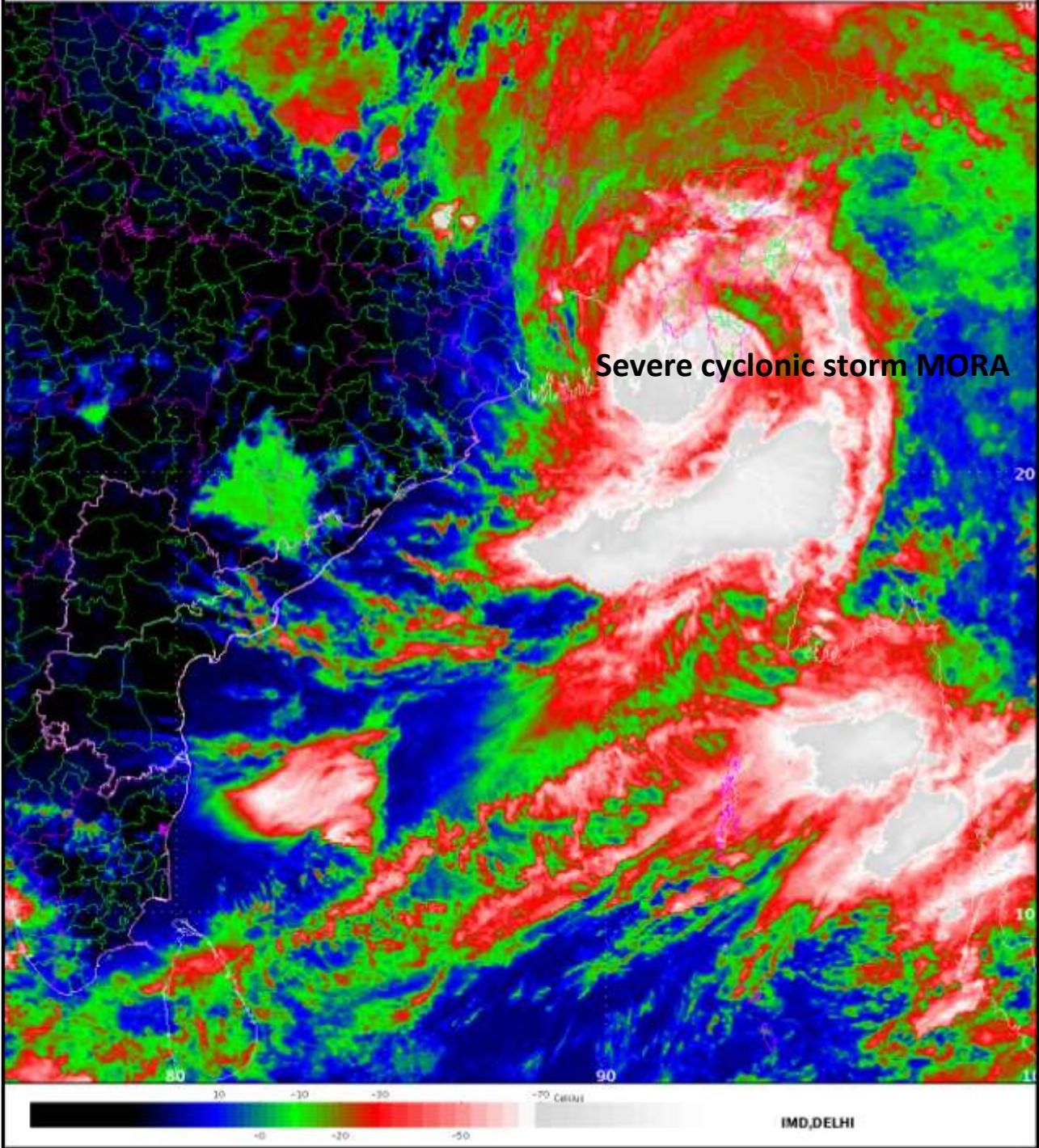
Copy to: DFDD, Pune/ACWC Kolkata /ACWC Chennai/CWC Vishakhapatnam/CWC
Bhubaneswar/MC Hyderabad.



Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
 Rainfall amount (mm): Heavy rain: 64.5 – 124.4, Very heavy rain: 124.5 – 244.4, Extremely heavy rain: 244.5 or more.

SAT :INSAT-3D
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SECTOR BAYOFBENGAL Mercator (NHC LUT)

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



Severe cyclonic storm MORA

IMD, DELHI

Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
Rainfall amount (mm): Heavy rain: 64.5 – 124.4, Very heavy rain: 124.5 – 244.4, Extremely heavy rain: 244.5 or more.



India Meteorological Department
Earth System Science Organisation
(Ministry of Earth Sciences)

BULLETIN NO.: 19 (BOB 02/2017)

TIME OF ISSUE: 1430 HOURS IST

DATED: 30.05.2017

FROM: INDIA METEOROLOGICAL DEPARTMENT

TO: CONTROL ROOM, NDM, MINISTRY OF HOME AFFAIRS
CONTROL ROOM NDMA
CABINET SECRETARIAT
PS TO HON'BLE MINISTER FOR S & T AND EARTH SCIENCES
SECRETARY, MOES,
SECRETARY, DST
H.Q. (INTEGRATED DEFENCE STAFF AND CDS)
DIRECTOR GENERAL, DOORDARSHAN
DIRECTOR GENERAL, AIR
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UNI
D.G. NATIONAL DISASTER RESPONSE FORCE (NDRF)
CHIEF SECRETARY, GOVT.OF WEST BENGAL
CHIEF SECRETARY, GOVT.OF TRIPURA
CHIEF SECRETARY, GOVT.OF MANIPUR
CHIEF SECRETARY, GOVT.OF MIZORAM
CHIEF SECRETARY, GOVT.OF NAGALAND
CHIEF SECRETARY, GOVT.OF ASSAM
CHIEF SECRETARY, GOVT.OF MEGHALAYA
CHIEF SECRETARY, GOVT.OF ARUNACHAL PRADESH
CHIEF SECRETARY, ANDAMAN & NICOBAR ISLANDS

Sub: Severe Cyclonic Storm 'MORA' over Bangladesh

The severe cyclonic storm '**MORA**' over Bangladesh coast moved further north- northeastward during past 06 hours with a speed of 32 kmph and lay centred at 1130 hrs IST of today, the 30th May, 2017 over Bangladesh near Latitude 22.8°N and Longitude 92.0°E, about 60 km north-northeast of Chittagong and 120 km southwest of Aizawal.

The system is very likely to continue to move north-northeastwards and weaken into a cyclonic storm during next six hours and into a deep depression in subsequent six hrs.

Observed and forecast track positions and intensity of the system are given below:

Date/time(IST)	Position (lat. °N/ long. °E)	Maximum sustained surface wind speed (kmph)	Category of cyclonic Disturbance
30.05.2017/1130	22.8/92.0	100-110 gusting to 120	Severe Cyclonic Storm
30.05.2017/1730	24.2/92.2	60-70 gusting to 80	Cyclonic Storm
30.05.2017/2330	25.7/92.5	35-45 gusting to 55	Depression
31.05.2017/0530	27.2/92.9	15-25 gusting to 35	Low

Warning:

(lix) Heavy Rainfall Warning:

30th May 2017: Rainfall at most places with heavy to very heavy rainfall at a few places and isolated extremely heavy rainfall very likely over Assam & Meghalaya. Rainfall at most places

Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
Rainfall amount (mm): Heavy rain: 64.5 – 124.4, Very heavy rain: 124.5 – 244.4, Extremely heavy rain: 244.5 or more.

with heavy to very heavy rainfall at isolated places very likely over Tripura, Mizoram, Manipur, Nagaland and Arunachal Pradesh.

31st May 2017: Rainfall at most places with heavy to very heavy rainfall at isolated places very likely over Assam & Meghalaya, Tripura, Mizoram, Manipur, Nagaland and Arunachal Pradesh.

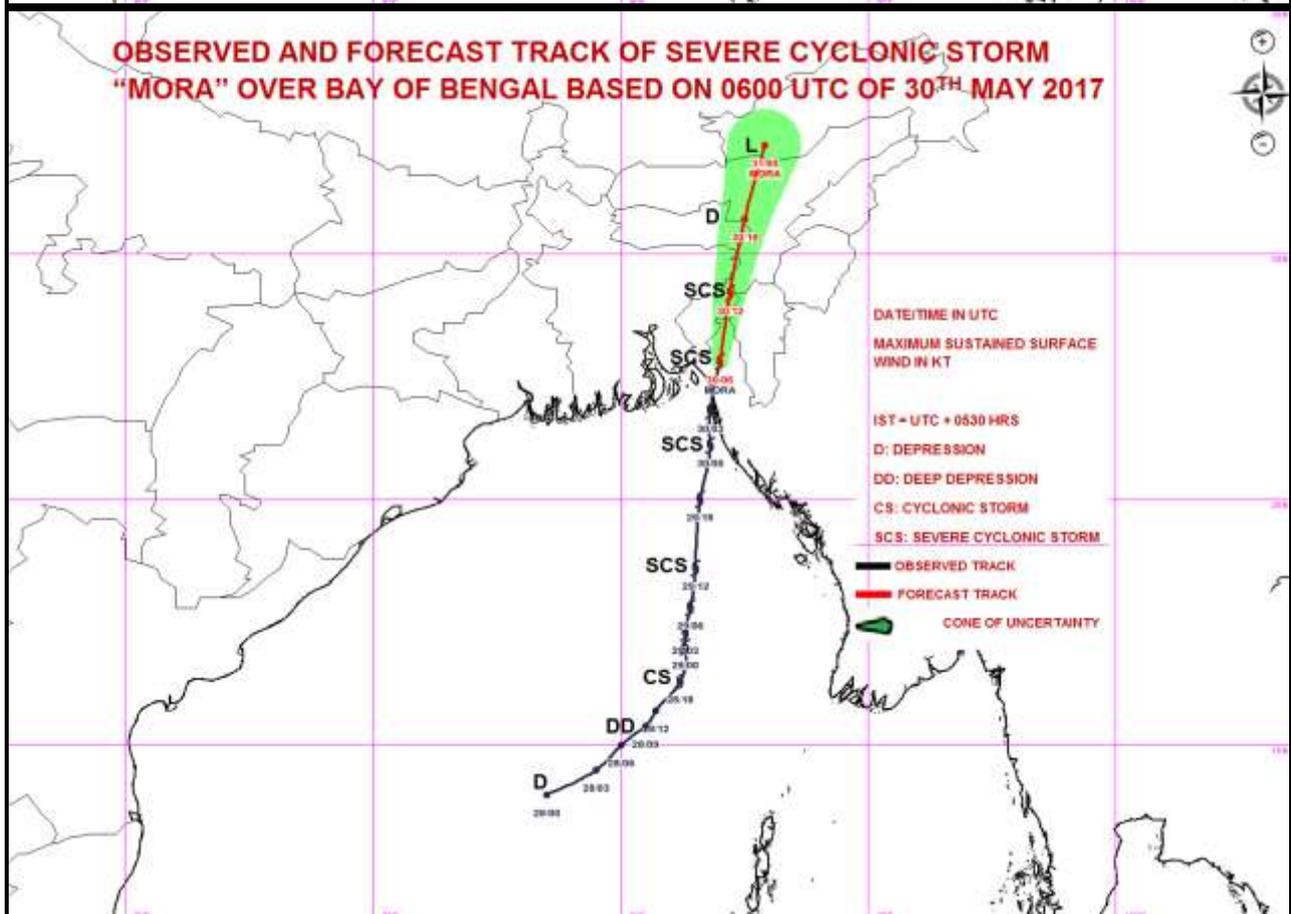
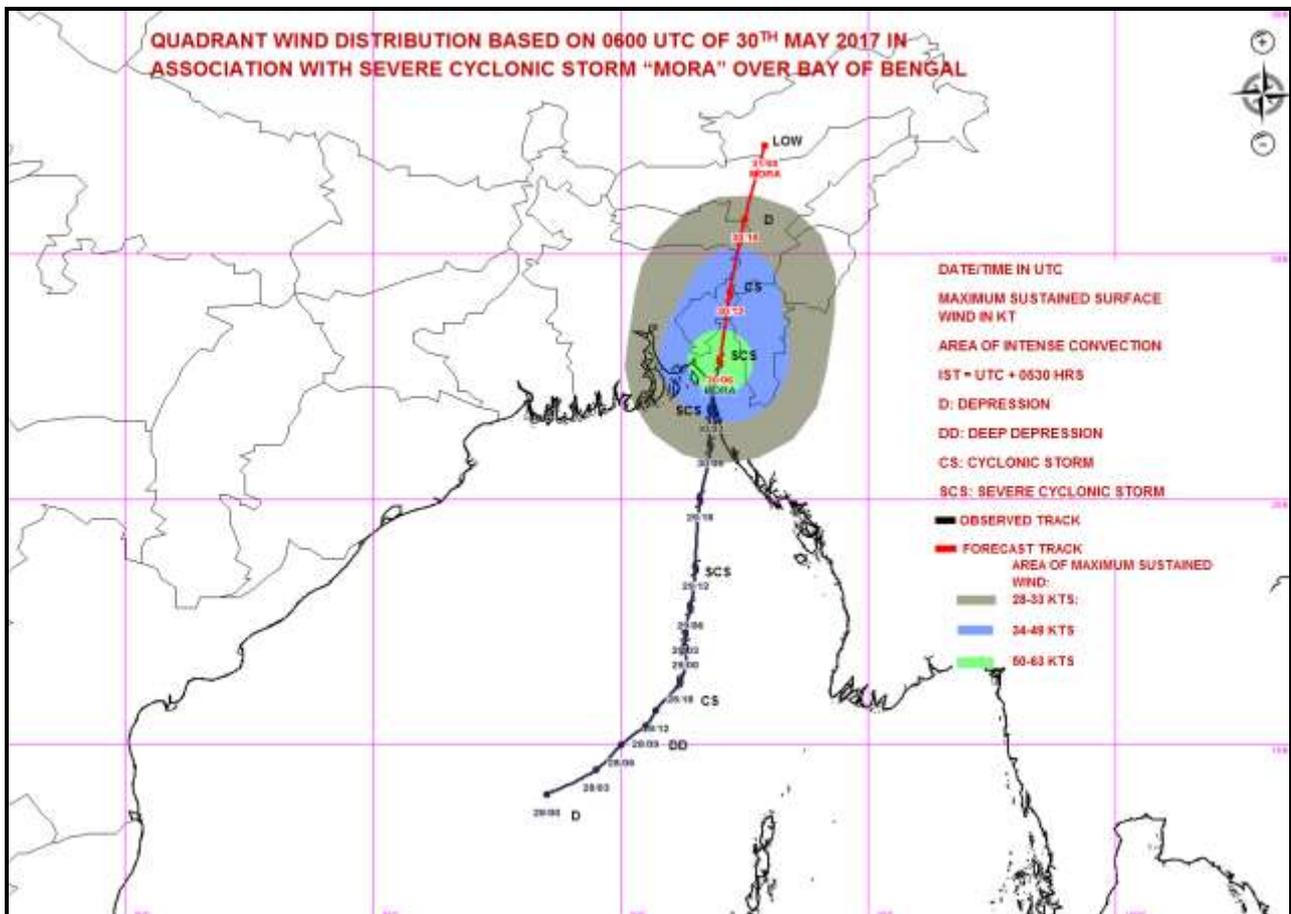
- (Ix) **Wind warning:** Gale winds speed reaching 60-70 kmph gusting to 80 kmph would prevail over Mizoram & Tripura during next six hours and 45-55 kmph gusting to 65 kmph for subsequent six hours. Squally winds speed reaching 45-55 kmph gusting to 65 kmph would prevail over South Assam, Meghalaya & Manipur and along & off West Bengal coast during next 12 hours.
- (Ixi) **Expected damage over Mizoram and Tripura:** Damage to thatched huts. Minor damage to power and communication lines due to breaking of branches. Major damage to Kutcha and minor damage to Pucca roads. Some damage to paddy crops, banana, papaya trees and orchards during next 12 hours.

The next bulletin will be issued at 1730 hrs IST of 30th May 2017.

**(Naresh Kumar)
Scientist-D
RSMC, New Delhi**

Copy to: DFDD, Pune/ACWC Kolkata /ACWC Chennai/CWC Vishakhapatnam/CWC Bhubaneswar/MC Hyderabad.

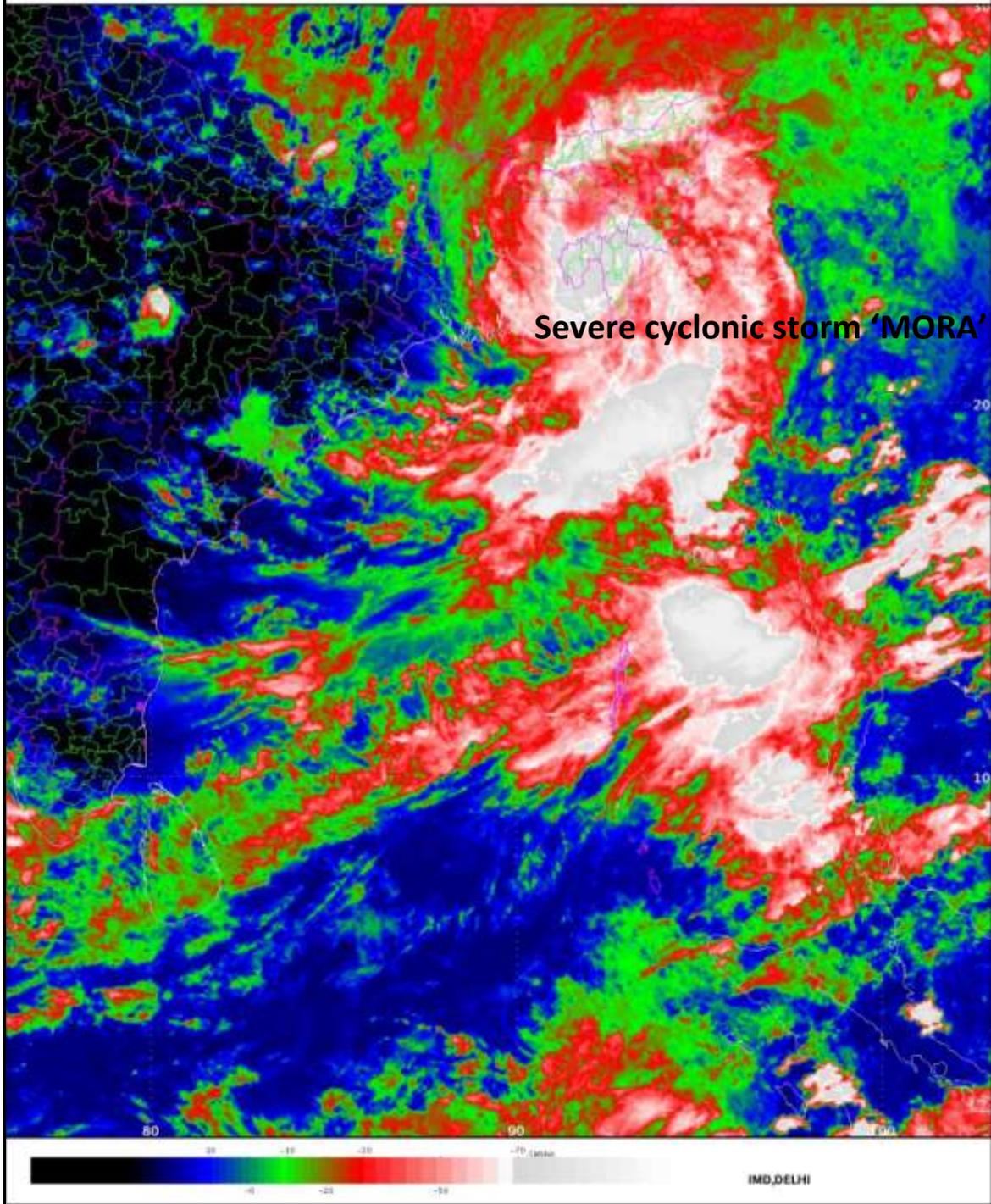
Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
Rainfall amount (mm): Heavy rain: 64.5 – 124.4, Very heavy rain: 124.5 – 244.4, Extremely heavy rain: 244.5 or more.



Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
 Rainfall amount (mm): Heavy rain: 64.5 – 124.4, Very heavy rain: 124.5 – 244.4, Extremely heavy rain: 244.5 or more.

SAT INSAT-3D
IMG, TIR1, TEMP 10.8 um
SECTOR BAYOFBENGAL Mercator (NHC LUT)

30-05-2017/08:00 GMT
30-05-2017/13:30 IST



India Meteorological Department
Earth System Science Organisation
(Ministry of Earth Sciences)

Spatial rainfall distribution
Rainfall amount (mm): Heavy rain:

75%, Most: 76-100%
Very heavy rain: 244.5 or more.

BULLETIN NO.: 20 (BOB 02/2017)

TIME OF ISSUE: 1730 HOURS IST

DATED: 30.05.2017

FROM: INDIA METEOROLOGICAL DEPARTMENT

TO: CONTROL ROOM, NDM, MINISTRY OF HOME AFFAIRS
CONTROL ROOM NDMA
CABINET SECRETARIAT
PS TO HON'BLE MINISTER FOR S & T AND EARTH SCIENCES
SECRETARY, MOES,
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CHIEF SECRETARY, GOVT.OF WEST BENGAL
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CHIEF SECRETARY, GOVT.OF MIZORAM
CHIEF SECRETARY, GOVT.OF NAGALAND
CHIEF SECRETARY, GOVT.OF ASSAM
CHIEF SECRETARY, GOVT.OF MEGHALAYA
CHIEF SECRETARY, GOVT.OF ARUNACHAL PRADESH
CHIEF SECRETARY, ANDAMAN & NICOBAR ISLANDS

Sub: Severe Cyclonic Storm 'MORA' weakened into a cyclonic storm over Bangladesh and adjoining Mizoram & Tripura

The severe cyclonic storm 'MORA' over Bangladesh moved further north- northeastward during past 06 hours with a speed of 33 kmph, weakened into a cyclonic storm and lay centred at 1430 hrs IST of today, the 30th May, 2017 over Bangladesh and adjoining Mizoram & Tripura near Latitude 23.6°N and Longitude 92.1°E, about 60 km west of Aizawal and 140 km southwest of Silchar. The system is very likely to continue to move north-northeastwards and weaken further into a deep depression during next three hours and into a depression in subsequent six hrs.

Observed and forecast track positions and intensity of the system are given below:

Date/time(IST)	Position (lat. °N/ long. °E)	Maximum sustained surface wind speed (kmph)	Category of cyclonic Disturbance
30.05.2017/1430	23.6/92.1	65-75 gusting to 85	Cyclonic Storm
30.05.2017/1730	24.2/92.2	50-60 gusting to 70	Deep Depression
30.05.2017/2330	25.7/92.5	35-45 gusting to 55	Depression
31.05.2017/0530	27.2/92.9	15-25 gusting to 35	Low

Warning:

(Ixii) Heavy Rainfall Warning:

30th May 2017: Rainfall at most places with heavy to very heavy rainfall at a few places and isolated extremely heavy rainfall very likely over Assam & Meghalaya. Rainfall at most places with heavy to very heavy rainfall at isolated places very likely over Tripura, Mizoram, Manipur, Nagaland and Arunachal Pradesh.

31st May 2017: Rainfall at most places with heavy to very heavy rainfall at isolated places very likely over Assam & Meghalaya, Tripura, Mizoram, Manipur, Nagaland and Arunachal Pradesh.

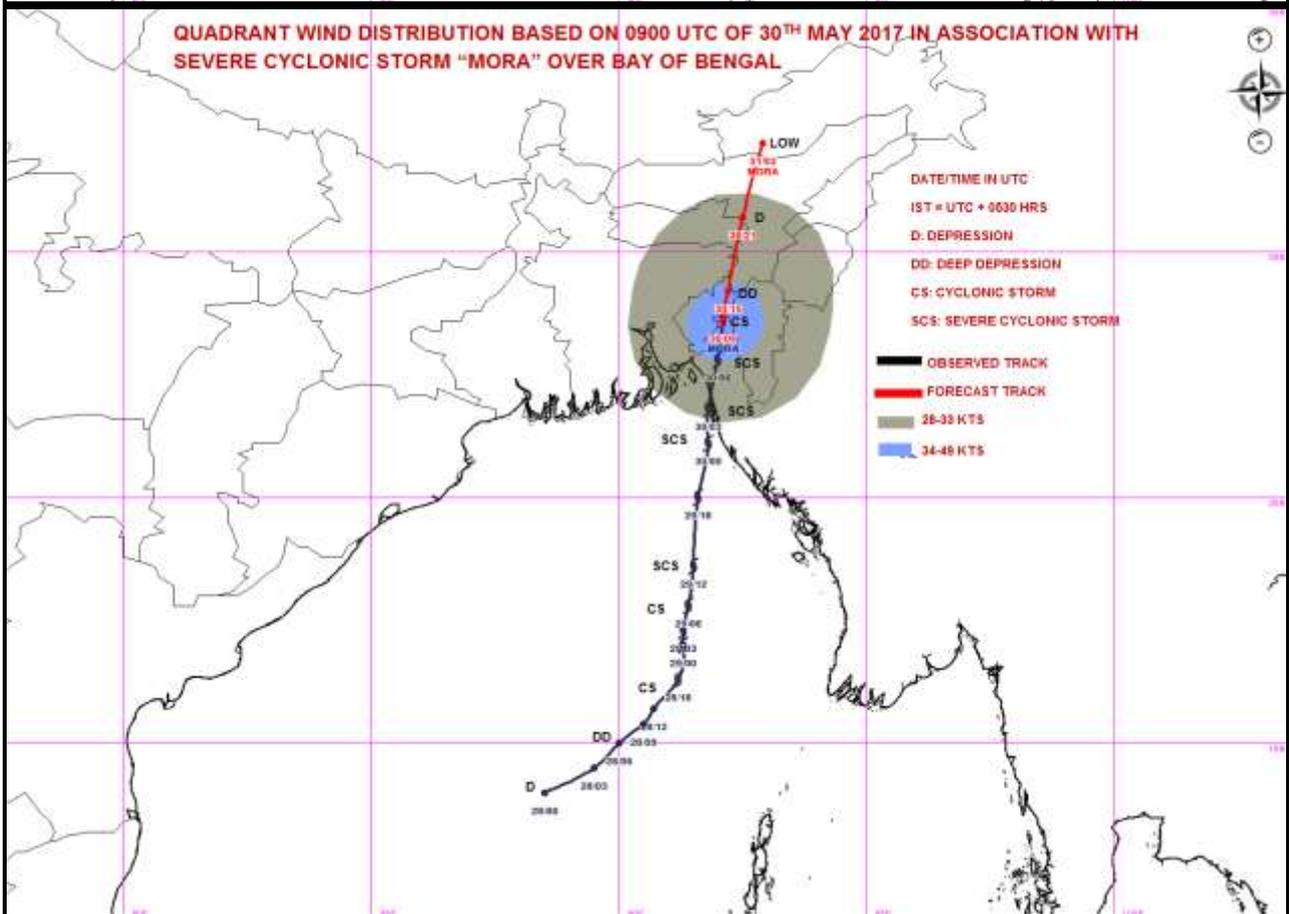
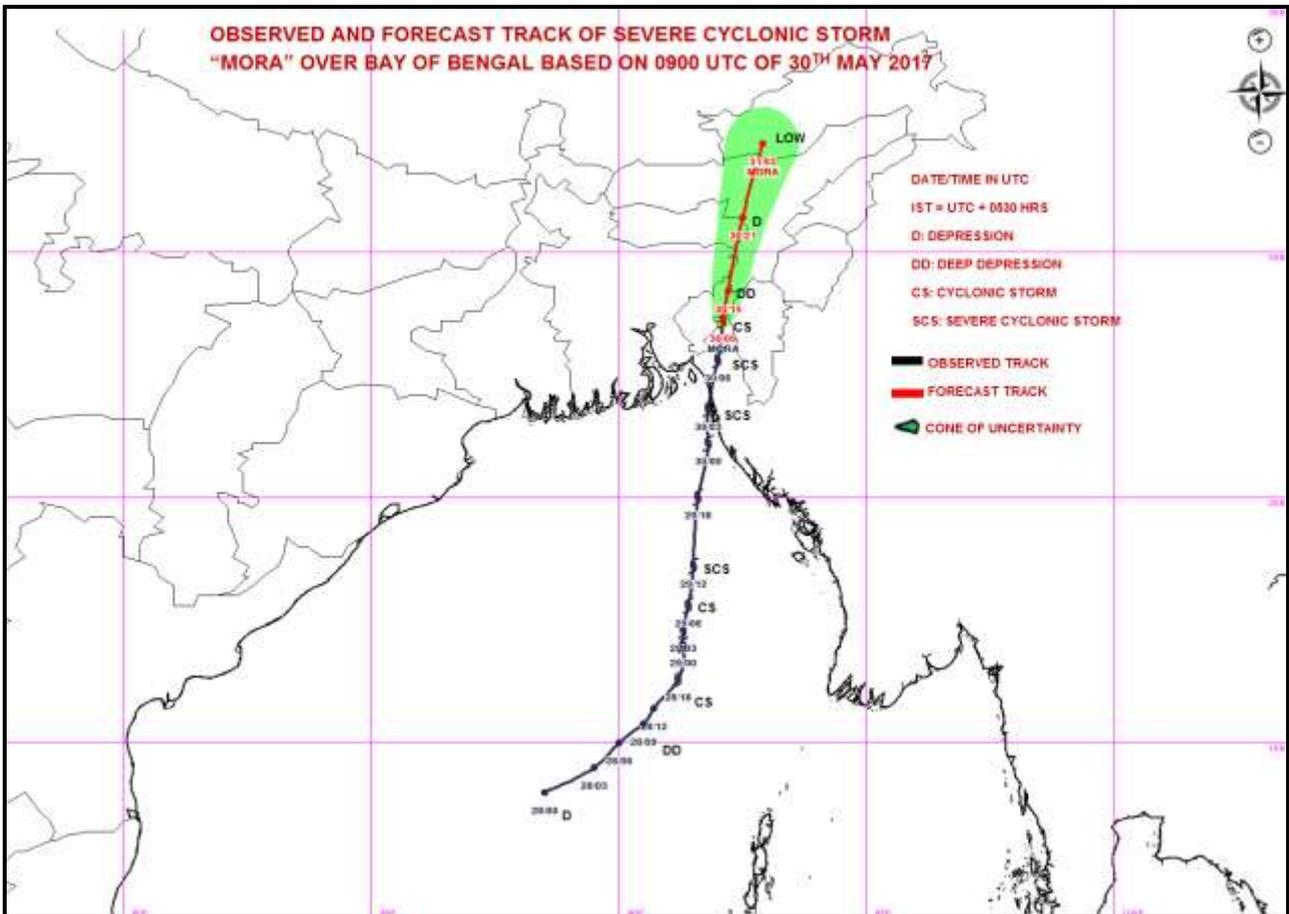
(Ixiii) Wind warning: Squally winds speed reaching 45-55 kmph gusting to 65 kmph would prevail over South Assam, Meghalaya, Mizoram, Tripura and Manipur during next 06 hours.

The next bulletin will be issued at 2030 hrs IST of 30th May 2017.

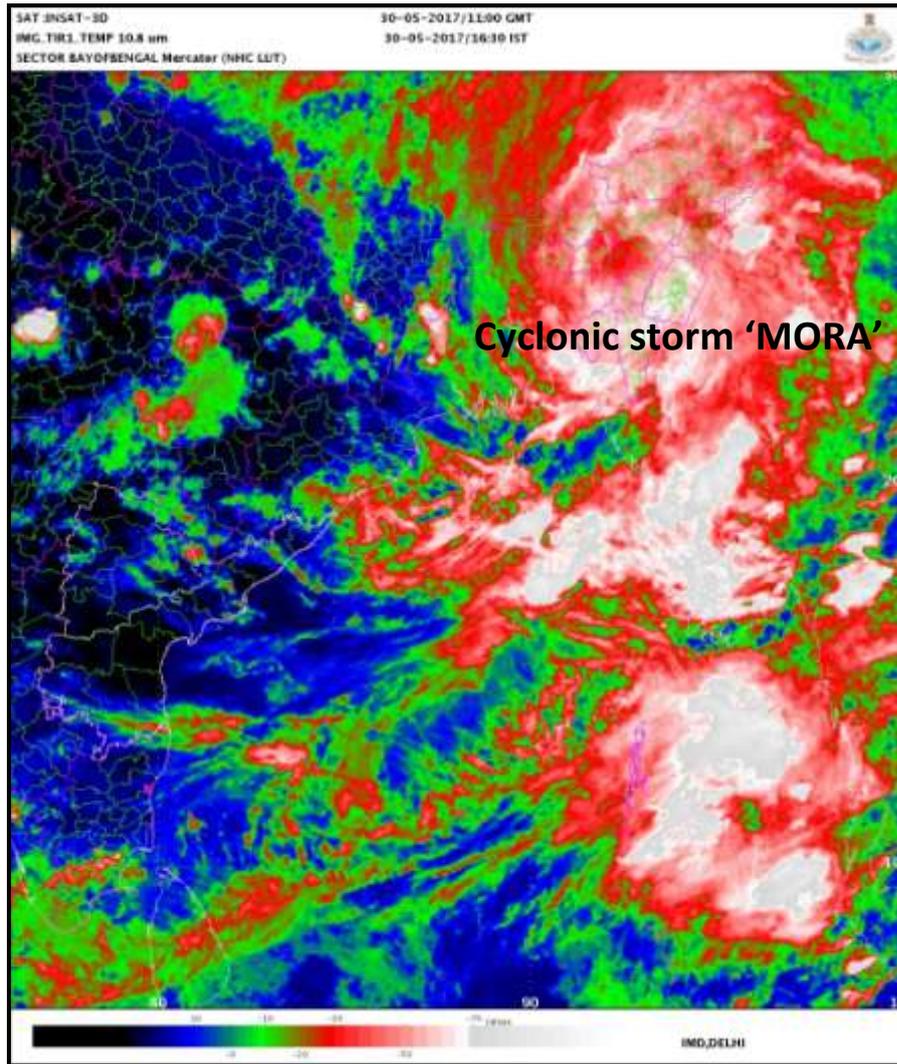
**(Naresh Kumar)
Scientist-D, RSMC, New Delhi**

Copy to: DFDD, Pune/ACWC Kolkata /ACWC Chennai/CWC Vishakhapatnam/CWC Bhubaneswar/MC Hyderabad.

Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
Rainfall amount (mm): Heavy rain: 64.5 – 124.4, Very heavy rain: 124.5 – 244.4, Extremely heavy rain: 244.5 or more.



Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
 Rainfall amount (mm): Heavy rain: 64.5 – 124.4, Very heavy rain: 124.5 – 244.4, Extremely heavy rain: 244.5 or more.



Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
Rainfall amount (mm): Heavy rain: 64.5 – 124.4, Very heavy rain: 124.5 – 244.4, Extremely heavy rain: 244.5 or more.



India Meteorological Department
Earth System Science Organisation
(Ministry of Earth Sciences)

BULLETIN NO.: 21 (BOB 02/2017)

TIME OF ISSUE: 2000 HOURS IST

DATED: 30.05.2017

FROM: INDIA METEOROLOGICAL DEPARTMENT

TO: CONTROL ROOM, NDM, MINISTRY OF HOME AFFAIRS
CONTROL ROOM NDMA
CABINET SECRETARIAT
PS TO HON'BLE MINISTER FOR S & T AND EARTH SCIENCES
SECRETARY, MOES,
SECRETARY, DST
H.Q. (INTEGRATED DEFENCE STAFF AND CDS)
DIRECTOR GENERAL, DOORDARSHAN
DIRECTOR GENERAL, AIR
PIB MOES
UNI
D.G. NATIONAL DISASTER RESPONSE FORCE (NDRF)
CHIEF SECRETARY, GOVT.OF WEST BENGAL
CHIEF SECRETARY, GOVT.OF TRIPURA
CHIEF SECRETARY, GOVT.OF MANIPUR
CHIEF SECRETARY, GOVT.OF MIZORAM
CHIEF SECRETARY, GOVT.OF NAGALAND
CHIEF SECRETARY, GOVT.OF ASSAM
CHIEF SECRETARY, GOVT.OF MEGHALAYA
CHIEF SECRETARY, GOVT.OF ARUNACHAL PRADESH
CHIEF SECRETARY, ANDAMAN & NICOBAR ISLANDS

Sub: Cyclonic Storm 'MORA' weakened into a deep depression over Tripura & neighbourhood

The cyclonic storm 'MORA' over Bangladesh and adjoining Mizoram & Tripura moved further north-northeastward during past 06 hours with a speed of 26 kmph, weakened into a deep depression and lay centred at 1730 hrs IST of today, the 30th May, 2017 over Tripura & neighbourhood near Latitude 24.2°N and Longitude 92.2°E, about 20 km east-southeast of Kailashahar and 80 km southwest of Silchar.

The system is very likely to continue to move north-northeastwards and weaken further into a depression during next six hours and into a low pressure area in subsequent six hrs.

Observed and forecast track positions and intensity of the system are given below:

Date/time(IST)	Position (lat. °N/ long. °E)	Maximum sustained surface wind speed (kmph)	Category of cyclonic Disturbance
30.05.2017/1730	24.2/92.2	50-60 gusting to 70	Deep Depression
30.05.2017/2330	25.7/92.5	35-45 gusting to 55	Depression
31.05.2017/0530	27.2/92.9	15-25 gusting to 35	Low

Warning:

(Ixiv) Heavy Rainfall Warning:

30th May 2017: Rainfall at most places with heavy to very heavy rainfall at a few places and isolated extremely heavy rainfall very likely over Assam & Meghalaya. Rainfall at most places with heavy to very heavy rainfall at isolated places very likely over Tripura, Mizoram, Manipur, Nagaland and Arunachal Pradesh.

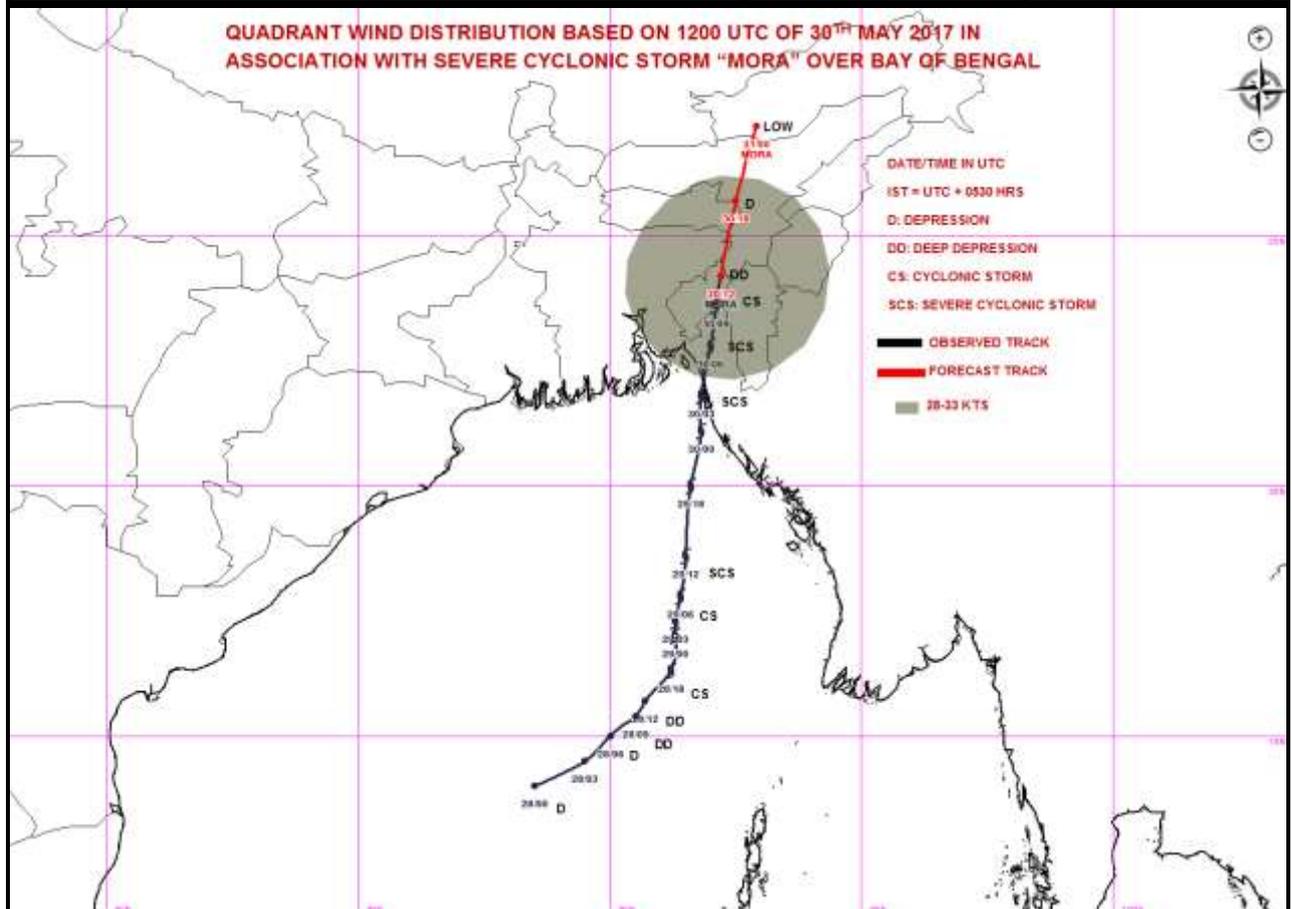
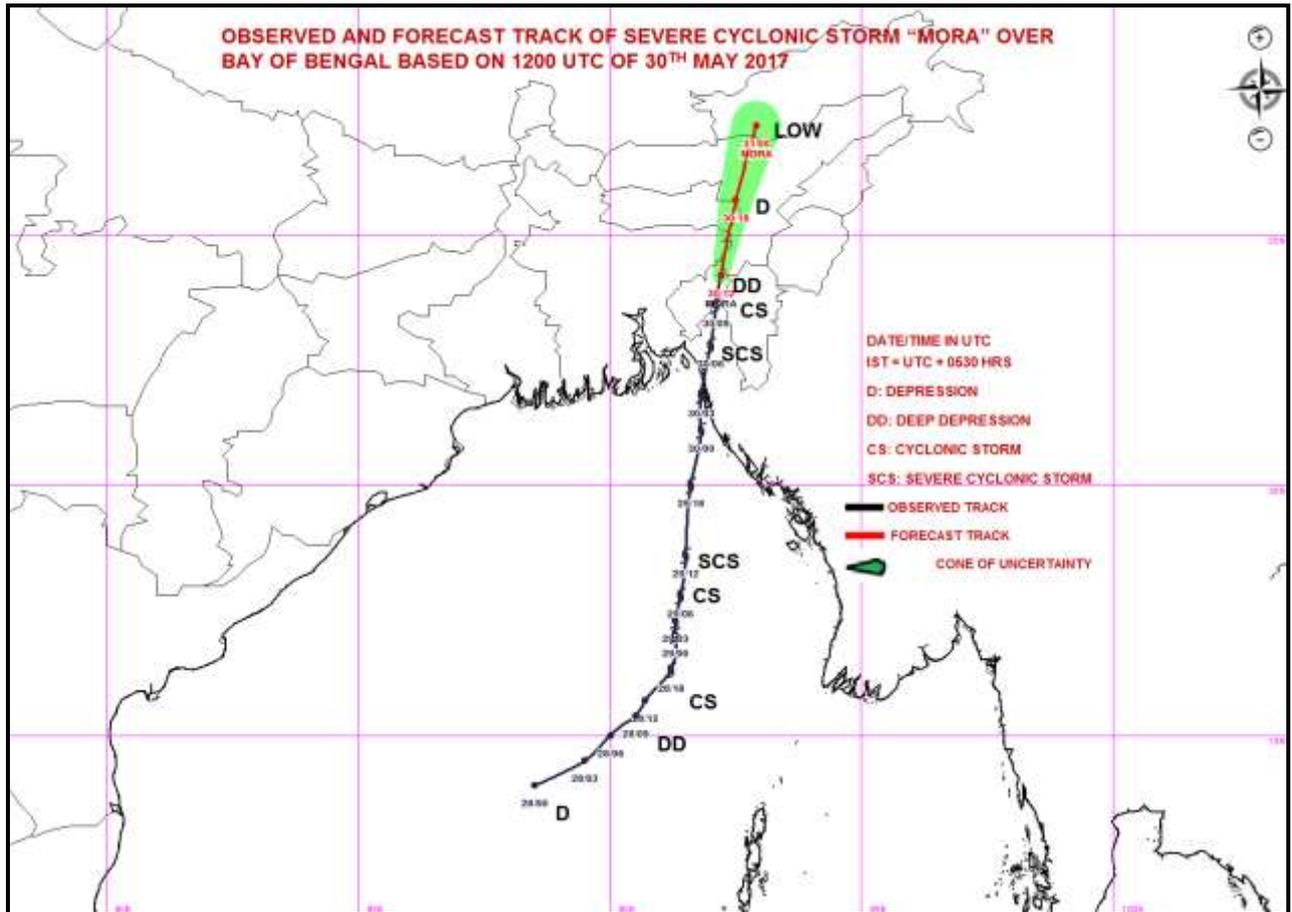
31st May 2017: Rainfall at most places with heavy to very heavy rainfall at isolated places very likely over Assam & Meghalaya, Tripura, Mizoram, Manipur, Nagaland and Arunachal Pradesh.

(Ixv) Wind warning: Squally winds speed reaching 50-60 kmph gusting to 70 kmph would prevail around system centre including north Tripura, north Mizoram & adjoining south Assam; and 45-55 kmph gusting to 65 kmph over rest parts of south Assam, Mizoram & Tripura and over Meghalaya & Manipur during next 06 hours.

The next bulletin will be issued at 0230 hrs IST of 31st May 2017.

**(Naresh Kumar)
Scientist-D, RSMC, New Delhi**

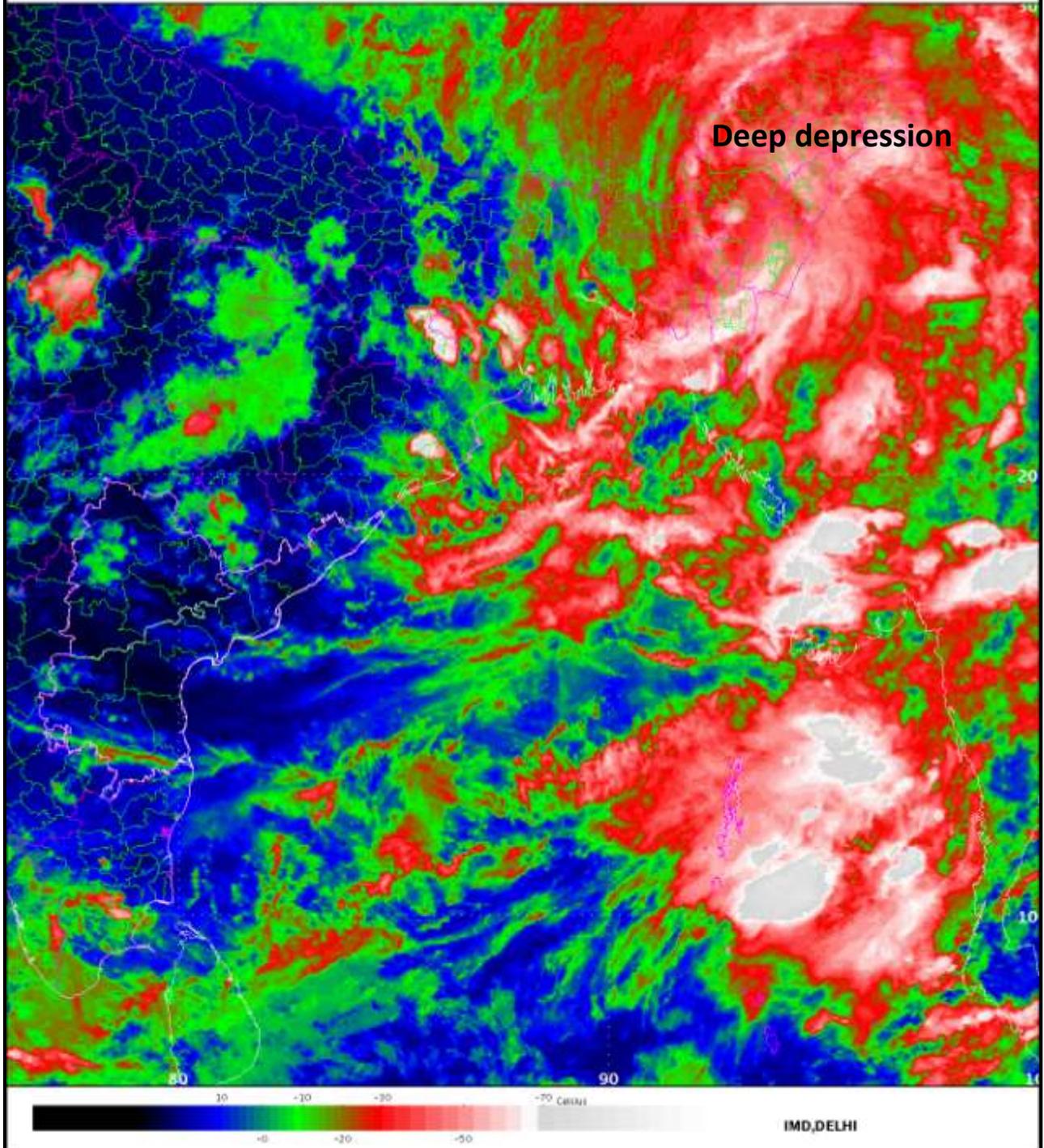
Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
Rainfall amount (mm): Heavy rain: 64.5 – 124.4, Very heavy rain: 124.5 – 244.4, Extremely heavy rain: 244.5 or more.



Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
Rainfall amount (mm): Heavy rain: 64.5 – 124.4, Very heavy rain: 124.5 – 244.4, Extremely heavy rain: 244.5 or more.

SAT :INSAT-3D
IMG_TIR1_TEMP 10.8 um
SECTOR BAYOFBENGAL Mercator (NHC LUT)

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



Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
Rainfall amount (mm): Heavy rain: 64.5 – 124.4, Very heavy rain: 124.5 – 244.4, Extremely heavy rain: 244.5 or more.



India Meteorological Department
Earth System Science Organisation
(Ministry of Earth Sciences)

BULLETIN NO.: 21 (BOB 02/2017)

TIME OF ISSUE: 2000 HOURS IST

DATED: 30.05.2017

FROM: INDIA METEOROLOGICAL DEPARTMENT

TO: CONTROL ROOM, NDM, MINISTRY OF HOME AFFAIRS
CONTROL ROOM NDMA
CABINET SECRETARIAT
PS TO HON'BLE MINISTER FOR S & T AND EARTH SCIENCES
SECRETARY, MOES,
SECRETARY, DST
H.Q. (INTEGRATED DEFENCE STAFF AND CDS)
DIRECTOR GENERAL, DOORDARSHAN
DIRECTOR GENERAL, AIR
PIB MOES
UNI
D.G. NATIONAL DISASTER RESPONSE FORCE (NDRF)
CHIEF SECRETARY, GOVT.OF WEST BENGAL
CHIEF SECRETARY, GOVT.OF TRIPURA
CHIEF SECRETARY, GOVT.OF MANIPUR
CHIEF SECRETARY, GOVT.OF MIZORAM
CHIEF SECRETARY, GOVT.OF NAGALAND
CHIEF SECRETARY, GOVT.OF ASSAM
CHIEF SECRETARY, GOVT.OF MEGHALAYA
CHIEF SECRETARY, GOVT.OF ARUNACHAL PRADESH
CHIEF SECRETARY, ANDAMAN & NICOBAR ISLANDS

Sub: Cyclonic Storm 'MORA' weakened into a deep depression over Tripura & neighbourhood

The cyclonic storm 'MORA' over Bangladesh and adjoining Mizoram & Tripura moved further north-northeastward during past 06 hours with a speed of 26 kmph, weakened into a deep depression and lay centred at 1730 hrs IST of today, the 30th May, 2017 over Tripura & neighbourhood near Latitude 24.2°N and Longitude 92.2°E, about 20 km east-southeast of Kailashahar and 80 km southwest of Silchar.

The system is very likely to continue to move north-northeastwards and weaken further into a depression during next six hours and into a low pressure area in subsequent six hrs.

Observed and forecast track positions and intensity of the system are given below:

Date/time(IST)	Position (lat. °N/ long. °E)	Maximum sustained surface wind speed (kmph)	Category of cyclonic Disturbance
30.05.2017/1730	24.2/92.2	50-60 gusting to 70	Deep Depression
30.05.2017/2330	25.7/92.5	35-45 gusting to 55	Depression
31.05.2017/0530	27.2/92.9	15-25 gusting to 35	Low

Warning:

(Ixvi) Heavy Rainfall Warning:

30th May 2017: Rainfall at most places with heavy to very heavy rainfall at a few places and isolated extremely heavy rainfall very likely over Assam & Meghalaya. Rainfall at most places with heavy to very heavy rainfall at isolated places very likely over Tripura, Mizoram, Manipur, Nagaland and Arunachal Pradesh.

31st May 2017: Rainfall at most places with heavy to very heavy rainfall at isolated places very likely over Assam & Meghalaya, Tripura, Mizoram, Manipur, Nagaland and Arunachal Pradesh.

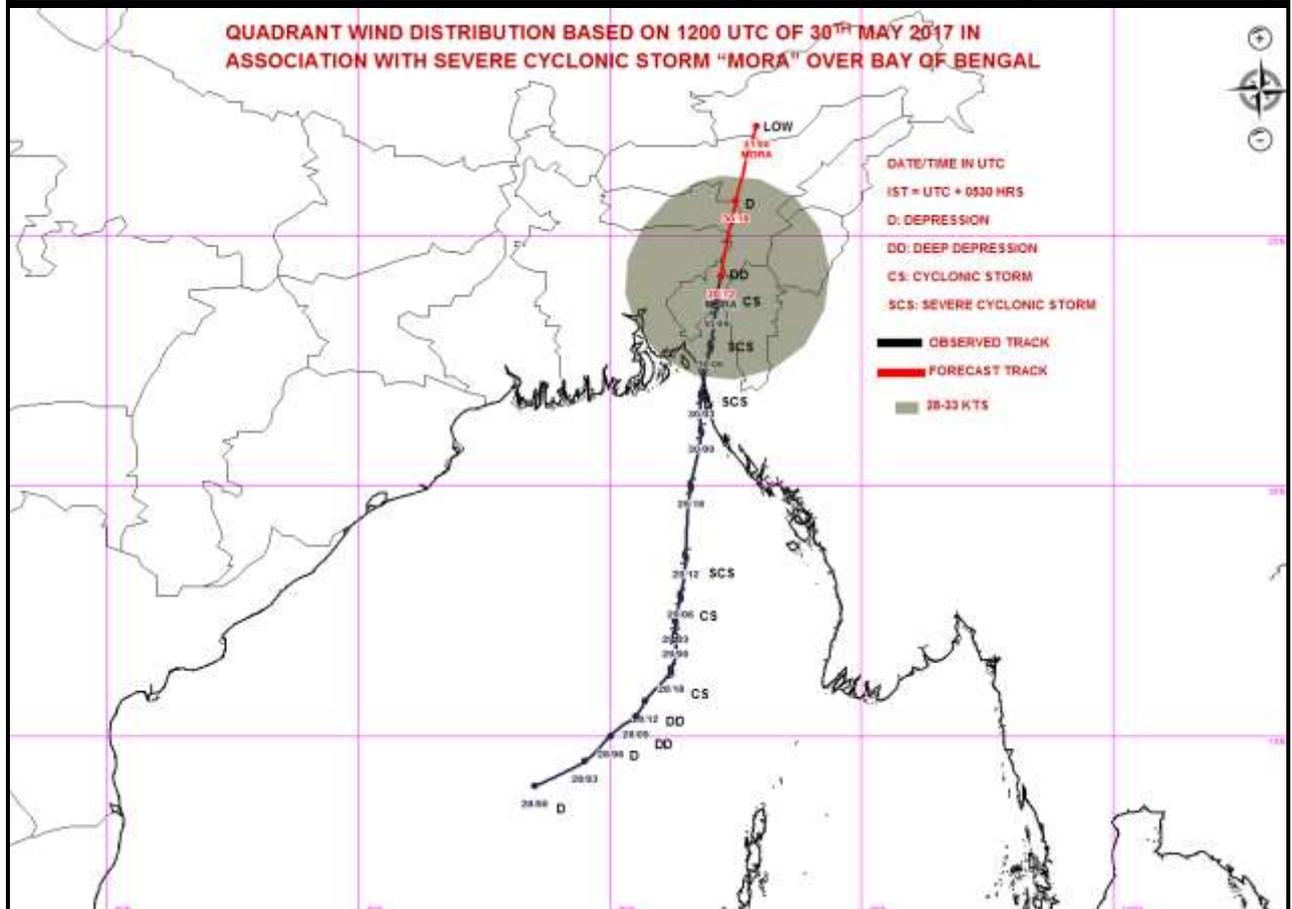
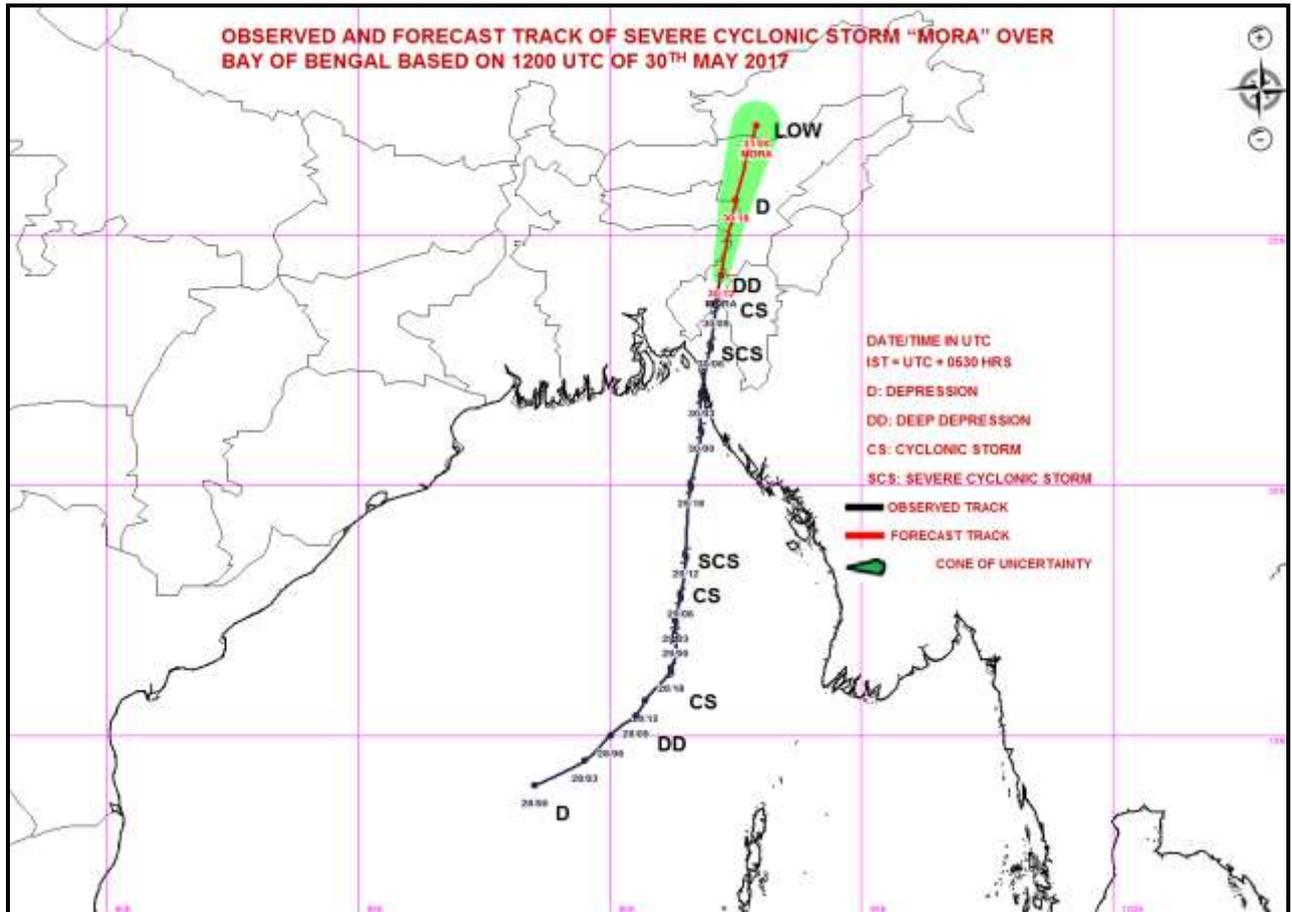
(Ixvii) Wind warning: Squally winds speed reaching 50-60 kmph gusting to 70 kmph would prevail around system centre including north Tripura, north Mizoram & adjoining south Assam; and 45-55 kmph gusting to 65 kmph over rest parts of south Assam, Mizoram & Tripura and over Meghalaya & Manipur during next 06 hours.

The next bulletin will be issued at 0230 hrs IST of 31st May 2017.

**(Naresh Kumar)
Scientist-D, RSMC, New Delhi**

Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
Rainfall amount (mm): Heavy rain: 64.5 – 124.4, Very heavy rain: 124.5 – 244.4, Extremely heavy rain: 244.5 or more.

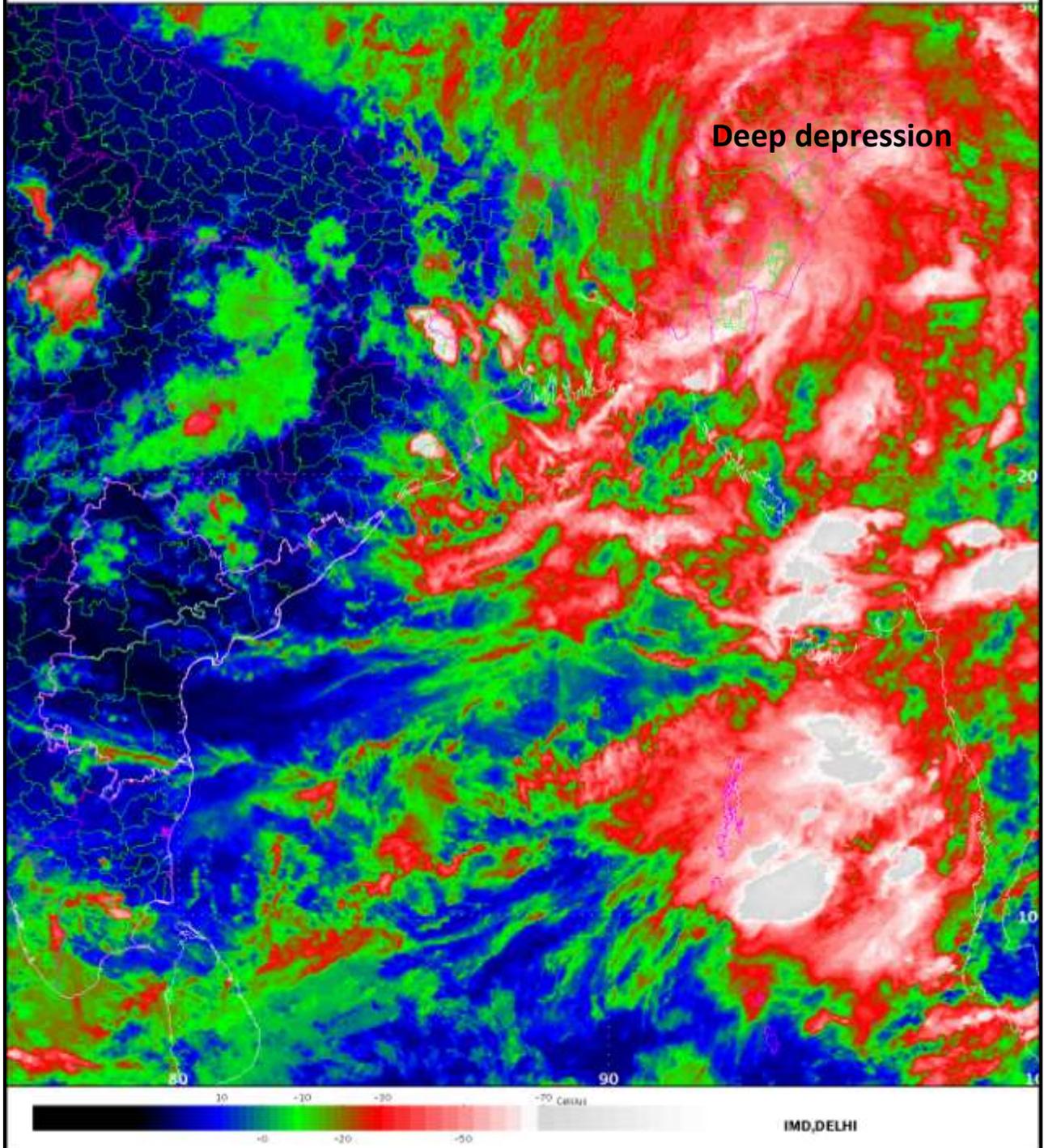
Copy to: DFDD, Pune/ACWC Kolkata /ACWC Chennai/CWC Vishakhapatnam/CWC Bhubaneswar/MC Hyderabad.



Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
Rainfall amount (mm): Heavy rain: 64.5 – 124.4, Very heavy rain: 124.5 – 244.4, Extremely heavy rain: 244.5 or more.

SAT :INSAT-3D
IMG_TIR1_TEMP 10.8 um
SECTOR BAYOFBENGAL Mercator (NHC LUT)

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



Deep depression

Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
Rainfall amount (mm): Heavy rain: 64.5 – 124.4, Very heavy rain: 124.5 – 244.4, Extremely heavy rain: 244.5 or more.



India Meteorological Department
Earth System Science Organisation
(Ministry of Earth Sciences)

BULLETIN NO.: 22 (BOB 02/2017)

TIME OF ISSUE: 0100 HOURS IST

DATED: 31.05.2017

FROM: INDIA METEOROLOGICAL DEPARTMENT

TO: CONTROL ROOM, NDM, MINISTRY OF HOME AFFAIRS
CONTROL ROOM NDMA
CABINET SECRETARIAT
PS TO HON'BLE MINISTER FOR S & T AND EARTH SCIENCES
SECRETARY, MOES,
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H.Q. (INTEGRATED DEFENCE STAFF AND CDS)
DIRECTOR GENERAL, DOORDARSHAN
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CHIEF SECRETARY, GOVT.OF WEST BENGAL
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CHIEF SECRETARY, GOVT.OF MANIPUR
CHIEF SECRETARY, GOVT.OF MIZORAM
CHIEF SECRETARY, GOVT.OF NAGALAND
CHIEF SECRETARY, GOVT.OF ASSAM
CHIEF SECRETARY, GOVT.OF MEGHALAYA
CHIEF SECRETARY, GOVT.OF ARUNACHAL PRADESH
CHIEF SECRETARY, ANDAMAN & NICOBAR ISLANDS

Sub: Deep depression weakened into a depression over south Meghalaya & neighbourhood

The deep depression over Tripura & neighbourhood moved further north- northeastward during past 06 hours with a speed of 35 kmph, weakened into a depression and lay centred at 2330 hrs IST of yesterday's, the 30th May, 2017 over south Meghalaya & neighbourhood.

The system is very likely to continue to move north-northeastwards and weaken further into a low pressure area during next six hrs.

Warning:

(I xviii) Heavy Rainfall Warning: Rainfall at most places with heavy to very heavy rainfall at isolated places very likely over Assam & Meghalaya, Tripura, Mizoram, Manipur, Nagaland and Arunachal Pradesh during next 24 hours.

The next bulletin will be issued at 0830 hrs IST of today, the 31st May 2017.

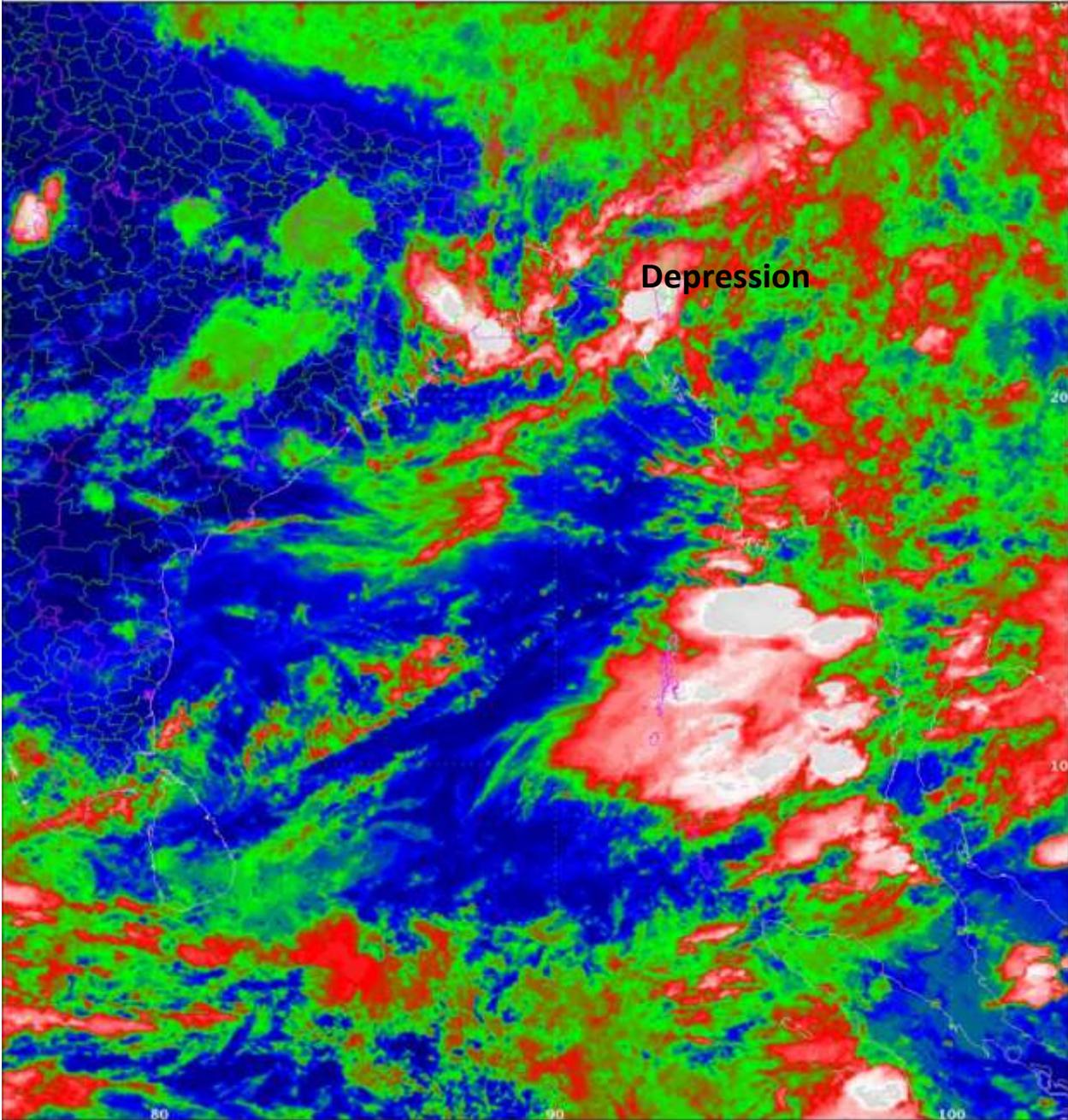
**(Akhil Srivastava)
Scientist-B, RSMC, New Delhi**

*Copy to: DFDD, Pune/ACWC Kolkata /ACWC Chennai/CWC Vishakhapatnam/ CWC Bhubaneswar
/MC Hyderabad.*

Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
Rainfall amount (mm): Heavy rain: 64.5 – 124.4, Very heavy rain: 124.5 – 244.4, Extremely heavy rain: 244.5 or more.

SAT:INSAT-3D
IMG:TIR1_TEMP 10.8 um
SECTOR BAYOFBENGAL Mercator (NHC LUT)

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



IMD,DELHI



India Meteorological Department
Earth System Science Organisation
(Ministry of Earth Sciences)

Spatial rainfall distri
Rainfall amount (mm): Heavy rain:

-75%, Most: 76-100%
emely heavy rain: 244.5 or more.

BULLETIN NO.: 23 (BOB 02/2017)

TIME OF ISSUE: 0800 HOURS IST

DATED: 31.05.2017

FROM: INDIA METEOROLOGICAL DEPARTMENT

TO: CONTROL ROOM, NDM, MINISTRY OF HOME AFFAIRS
CONTROL ROOM NDMA
CABINET SECRETARIAT
PS TO HON'BLE MINISTER FOR S & T AND EARTH SCIENCES
SECRETARY, MOES,
SECRETARY, DST
H.Q. (INTEGRATED DEFENCE STAFF AND CDS)
DIRECTOR GENERAL, DOORDARSHAN
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CHIEF SECRETARY, GOVT.OF WEST BENGAL
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CHIEF SECRETARY, GOVT.OF NAGALAND
CHIEF SECRETARY, GOVT.OF ASSAM
CHIEF SECRETARY, GOVT.OF MEGHALAYA
CHIEF SECRETARY, GOVT.OF ARUNACHAL PRADESH
CHIEF SECRETARY, ANDAMAN & NICOBAR ISLANDS

Sub: Depression weekend into a well marked low pressure area over Nagaland & neighbourhood

The depression over south Meghalaya & neighbourhood moved northeastward during past six hours and weakened further. It lay as a well marked low pressure area over Nagaland & neighbourhood at 0530 hrs IST of today, the 31st May, 2017.

Warning:

(Ixi) Heavy Rainfall Warning: Rainfall at most places with heavy to very heavy rainfall at isolated places very likely over south and eastern Assam, eastern Meghalaya, Tripura, Mizoram, Manipur, Nagaland and Arunachal Pradesh during next 24 hours.

This is the last bulletin of this system.

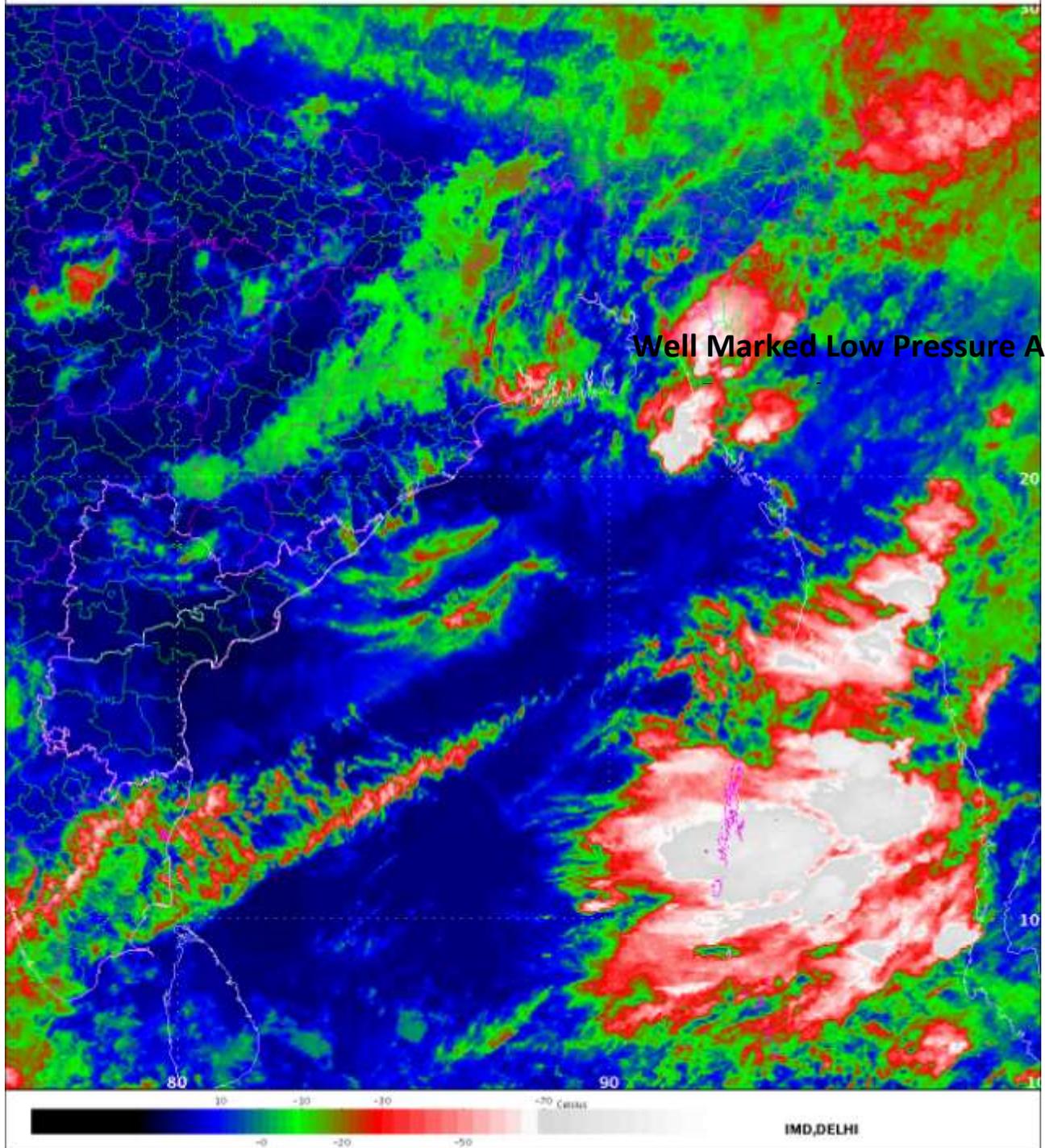
**(Akhil Srivastava)
Scientist-B,
RSMC, New Delhi**

Copy to: DFDD, Pune/ACWC Kolkata /ACWC Chennai/CWC Vishakhapatnam/ CWC Bhubaneswar /MC Hyderabad.

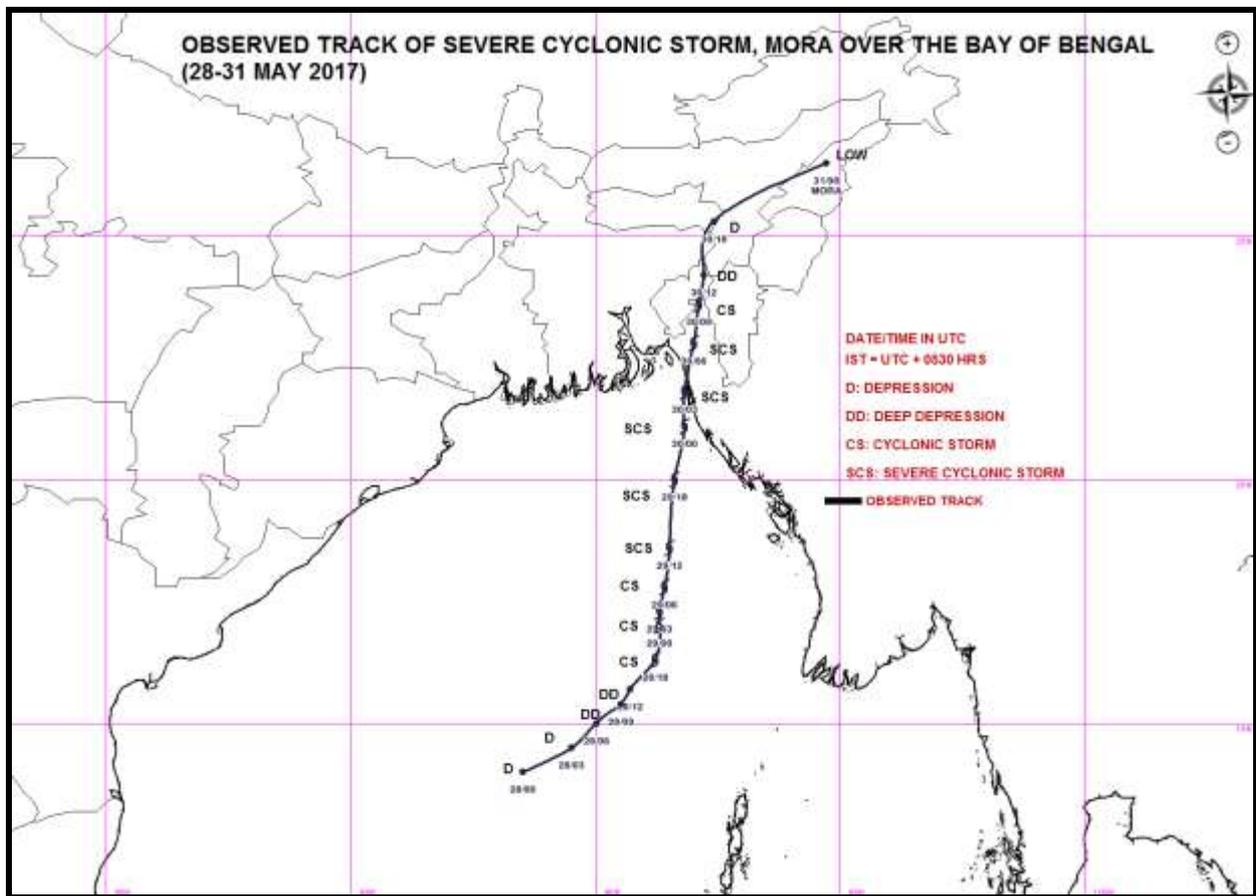
Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
Rainfall amount (mm): Heavy rain: 64.5 – 124.4, Very heavy rain: 124.5 – 244.4, Extremely heavy rain: 244.5 or more.

SAT :INSAT-3D
IMG_TIR1_TEMP 10.8 um
SECTOR BAYOFBENGAL Mercator (NHC LUT)

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



Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
Rainfall amount (mm): Heavy rain: 64.5 – 124.4, Very heavy rain: 124.5 – 244.4, Extremely heavy rain: 244.5 or more.



Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
Rainfall amount (mm): Heavy rain: 64.5 – 124.4, Very heavy rain: 124.5 – 244.4, Extremely heavy rain: 244.5 or more.