



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

BULLETIN NO. : 01 (BOB/01/2019)

TIME OF ISSUE: 1230 HOURS IST

DATED: 03.01.2019

FROM: INDIA METEOROLOGICAL DEPARTMENT (FAX NO. 24643965/24699216/24623220)

TO: CONTROL ROOM, NDM, MINISTRY OF HOME AFFAIRS (FAX.NO. 23093750)

CONTROL ROOM NDMA (FAX.NO. 26701729)

CABINET SECRETARIAT (FAX.NO.23012284, 23018638)

PS TO HON'BLE MINISTER FOR S & T AND EARTH SCIENCES (FAX NO.23316745)

SECRETARY, MOES, (FAX NO. 24629777)

H.Q. (INTEGRATED DEFENCE STAFF AND CDS) (FAX NO. 23005137/23005147)

DIRECTOR GENERAL, DOORDARSHAN (23385843)

DIRECTOR GENERAL, AIR (23421105, 23421219)

PIB MOES (FAX NO. 23389042)

UNI (FAX NO. 23355841)

D.G. NATIONAL DISASTER RESPONSE FORCE (NDRF) (FAX NO. 26105912)

DIRECTOR, PUNCTUALITY, INDIAN RAILWAYS (FAX NO. 23388503)

CHIEF SECRETARY, GOVT. OF ODISHA (FAX NO. 0674 -2536660)

CHIEF SECRETARY, ANDHRA PRADESH (FAX NO. 0863-2441029)

CHIEF SECRETARY, TAMIL NADU (FAX NO. 044-25672304)

CHIEF SECRETARY, ANDAMAN & NICOBAR ISLANDS (FAX NO. 03192- 232656)

CHIEF SECRETARY, WEST BENGAL (FAX NO. 033-22144328)

CHIEF SECRETARY, PUDUCHERRY (FAX NO. 0413-2337575)

Sub: Cyclonic storm "PABUK" over South China Sea and its emergence into Andaman Sea on 05th January 2019: Pre-cyclone watch for Andaman Islands

A cyclonic storm "PABUK" lay centred at 0830 hours IST of 03rd January 2019 over south China Sea near latitude 6.0°N and longitude 105.0° E, about 1500 km east-southeast of Port Blair. It is very likely to move west-northwestwards and emerge into Andaman Sea around the forenoon of 05th January 2019. Thereafter it is very likely to move northwestwards and cross Andaman Islands around evening/ night of 06th January. Thereafter, it is very likely to move north-northwestwards and then recurve northeastwards towards Myanmar coast and weaken further during 7th-8th January, 2019.

Warnings:

(i) Heavy rainfall warning

- Rainfall at many places with heavy falls at isolated places likely to commence over Andaman Islands from 5th January evening. Intensity is very likely to increase with rainfall at most places and heavy to very heavy rainfall at a few places on 6th and at isolated places on 7th.

(ii) Wind warning

Squally wind speed reaching 40-50 kmph gusting to 60 kmph is likely to commence over Andaman Sea along and off south Myanmar and Thailand coast from 4th January evening. It is very likely to increase gradually becoming 55-65 kmph gusting to 75 over Andaman Sea on 5th and over Andaman Islands, Andaman Sea and adjoining areas of eastcentral and southeast Bay of Bengal on 6th and 7th.

(iii) Sea condition

The sea condition will be rough to very rough over Andaman Sea along and off south Myanmar and Thailand coast from 4th January evening. It is very likely to become very rough to high over Andaman Sea on 5th and over Andaman Sea and adjoining areas of eastcentral and southeast Bay of Bengal on 6th and 7th.

(iv) Fishermen Warning

The fishermen are advised not to venture into Andaman Sea during 4th-7th and into adjoining southeast and eastcentral Bay of Bengal during 6-7th January.

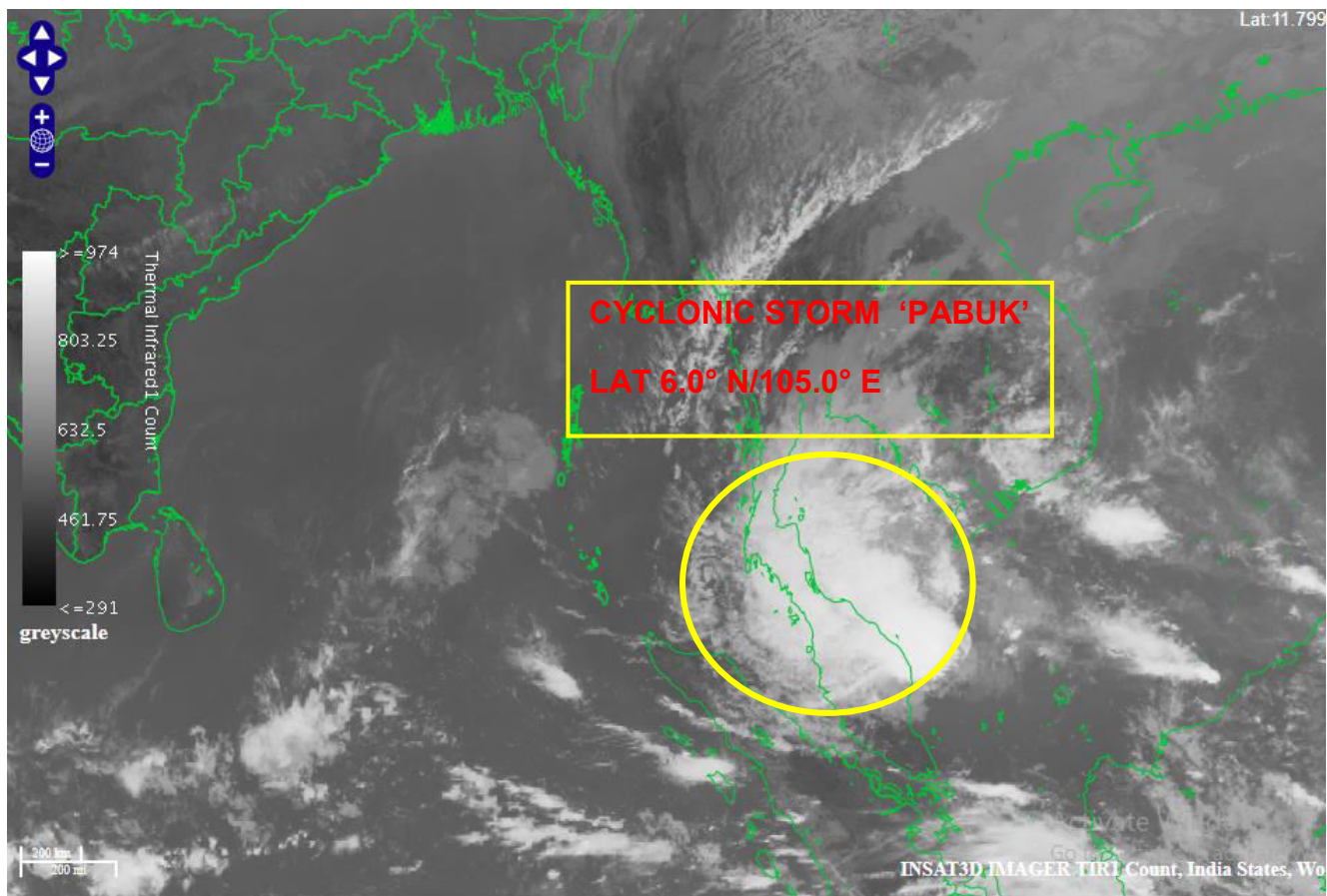
The next bulletin will be issued at 1230 hrs IST of 04th January, 2019.

**(Neetha K Gopal)
Scientist-E, RSMC, New Delhi**

Copy to: CRS, Pune/ ACWC Kolkata/ Chennai/ CWC Bhubaneswar/CWC Visakhapatnam/ MO Port Blair

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

Rainfall amount (mm): Heavy rain: 64.5 – 115.5, Very heavy rain: 115.6 – 204.4, Extremely heavy rain: 204.5 or more.



Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
Rainfall amount (mm): Heavy rain: 64.5 – 115.5, Very heavy rain: 115.6 – 204.4, Extremely heavy rain: 204.5 or more.



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BULLETIN NO. : 02 (BOB/01/2019)

TIME OF ISSUE: 1200 HOURS IST

DATED: 04.01.2019

FROM: INDIA METEOROLOGICAL DEPARTMENT (FAX NO. 24643965/24699216/24623220)

TO: CONTROL ROOM, NDM, MINISTRY OF HOME AFFAIRS (FAX.NO. 23093750)

CONTROL ROOM NDMA (FAX.NO. 26701729)

CABINET SECRETARIAT (FAX.NO.23012284, 23018638)

PS TO HON'BLE MINISTER FOR S & T AND EARTH SCIENCES (FAX NO.23316745)

SECRETARY, MOES, (FAX NO. 24629777)

H.Q. (INTEGRATED DEFENCE STAFF AND CDS) (FAX NO. 23005137/23005147)

DIRECTOR GENERAL, DOORDARSHAN (23385843)

DIRECTOR GENERAL, AIR (23421105, 23421219)

PIB MOES (FAX NO. 23389042)

UNI (FAX NO. 23355841)

D.G. NATIONAL DISASTER RESPONSE FORCE (NDRF) (FAX NO. 26105912)

DIRECTOR, PUNCTUALITY, INDIAN RAILWAYS (FAX NO. 23388503)

CHIEF SECRETARY, GOVT. OF ODISHA (FAX NO. 0674 -2536660)

CHIEF SECRETARY, ANDHRA PRADESH (FAX NO. 0863-2441029)

CHIEF SECRETARY, TAMIL NADU (FAX NO. 044-25672304)

CHIEF SECRETARY, ANDAMAN & NICOBAR ISLANDS (FAX NO. 03192- 232656)

CHIEF SECRETARY, WEST BENGAL (FAX NO. 033-22144328)

CHIEF SECRETARY, PUDUCHERRY (FAX NO. 0413-2337575)

Sub: Cyclonic storm "PABUK" over Gulf of Thailand and adjoining Thailand and its emergence into Andaman Sea on 05th January 2019: Pre-cyclone watch for Andaman Islands

The cyclonic storm "PABUK" over south China Sea moved west-northwestwards during past 24 hours with a speed of 21 kmph and lay centred at 0830 hours IST of 04th January 2019 over Gulf of Thailand and adjoining Thailand near latitude 8.3°N and longitude 101.0° E, about 990 km east-southeast of Port Blair. It is very likely to move west-northwestwards and emerge into Andaman Sea by tomorrow forenoon. Thereafter it is very likely to move northwestwards and cross Andaman Islands around evening/ night of 06th January. Thereafter, it is very likely to move north-northwestwards and then recurve northeastwards towards Myanmar coast and weaken further during 7th-8th January, 2019.

Warnings:

(i) Heavy rainfall warning

Rainfall at many places with heavy falls at isolated places likely to commence over Andaman Islands from 5th January evening. Intensity is very likely to increase with rainfall at most places and heavy to very heavy rainfall at a few places on 6th and at isolated places on 7th.

(ii) Wind warning

Squally wind speed reaching 40-50 kmph gusting to 60 kmph is likely to commence over Andaman Sea along and off south Myanmar and Thailand coast from today evening. It is very likely to increase gradually becoming 55-65 kmph gusting to 75 over Andaman Sea on 5th and over Andaman Islands, Andaman Sea and adjoining areas of eastcentral and southeast Bay of Bengal on 6th and 7th.

(iii) Sea condition

The sea condition will be rough to very rough over Andaman Sea along and off south Myanmar and Thailand coast from today evening. It is very likely to become very rough to high over Andaman Sea on 5th and over Andaman Sea and adjoining areas of eastcentral and southeast Bay of Bengal on 6th and 7th.

(iv) Fishermen Warning

Total suspension of fishing operation over Andaman Sea and adjoining southeast and eastcentral Bay of Bengal during 4th-7th January.

The next bulletin will be issued at 2030 hrs IST of 04th January, 2019.

(Neetha K Gopal)

Scientist-E, RSMC, New Delhi

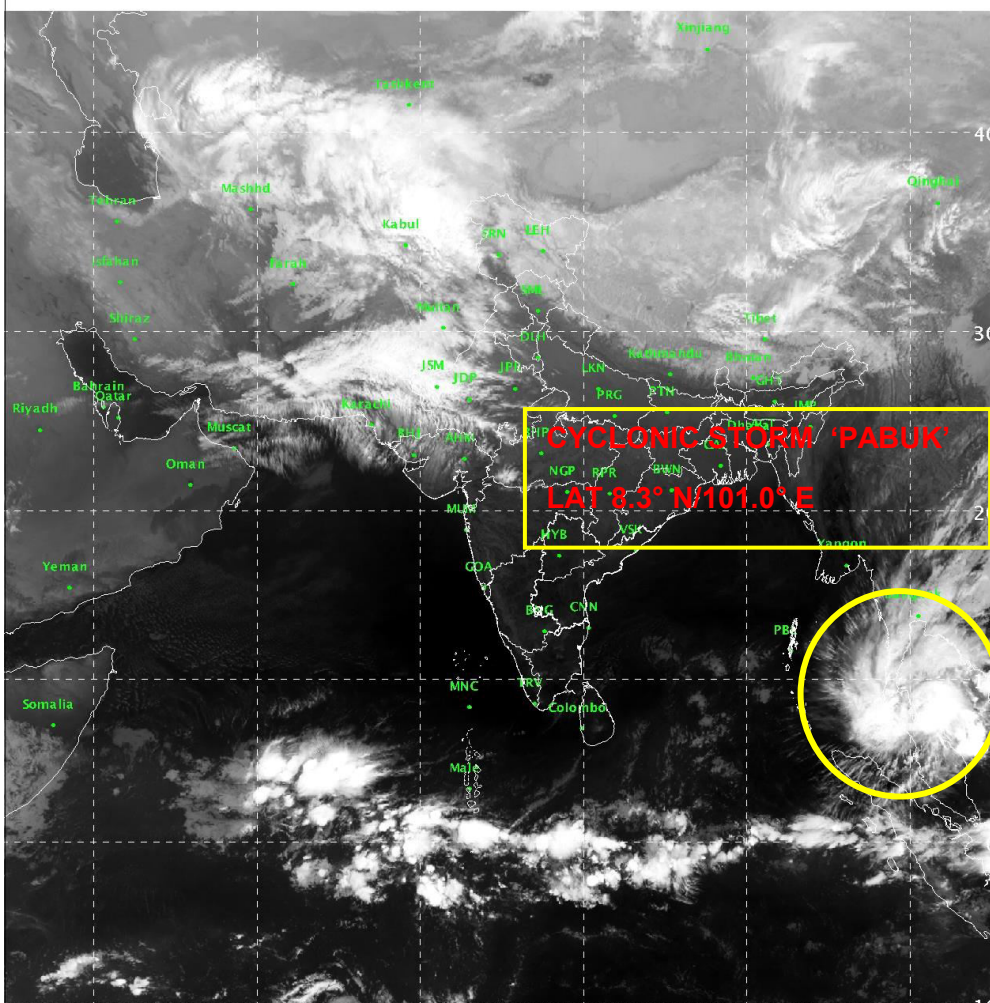
Copy to: CRS, Pune/ ACWC Kolkata/ Chennai/ CWC Bhubaneswar/CWC Visakhapatnam/ MO Port Blair

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

Rainfall amount (mm): Heavy rain: 64.5 – 115.5, Very heavy rain: 115.6 – 204.4, Extremely heavy rain: 204.5 or more.

SAT :INSAT-3D IMG
 IMG_TIR1 10.8 um
 L1C Mercator (LINEAR STRETCH: 1.0%)

04-01-2019/03:00 GMT
 04-01-2019/08:30 IST



IMD/Delhi

Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
Rainfall amount (mm): Heavy rain: 64.5 – 115.5, Very heavy rain: 115.6 – 204.4, Extremely heavy rain: 204.5 or more.



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BULLETIN NO. : 03 (BOB/01/2019)

TIME OF ISSUE: 2000 HOURS IST

DATED: 04.01.2019

FROM: INDIA METEOROLOGICAL DEPARTMENT (FAX NO. 24643965/24699216/24623220)

TO: CONTROL ROOM, NDM, MINISTRY OF HOME AFFAIRS (FAX.NO. 23093750)

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DIRECTOR GENERAL, AIR (23421105, 23421219)

PIB MOES (FAX NO. 23389042)

UNI (FAX NO. 23355841)

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DIRECTOR, PUNCTUALITY, INDIAN RAILWAYS (FAX NO. 23388503)

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CHIEF SECRETARY, ANDHRA PRADESH (FAX NO. 0863-2441029)

CHIEF SECRETARY, TAMIL NADU (FAX NO. 044-25672304)

CHIEF SECRETARY, ANDAMAN & NICOBAR ISLANDS (FAX NO. 03192- 232656)

CHIEF SECRETARY, WEST BENGAL (FAX NO. 033-22144328)

CHIEF SECRETARY, PUDUCHERRY (FAX NO. 0413-2337575)

**Sub: Cyclonic storm "PABUK" over Thailand & its emergence into Andaman Sea on 05th Jan., 2019
Cyclone Alert for Andaman Islands "YELLOW MESSAGE"**

The cyclonic storm "PABUK" over Gulf of Thailand & adjoining Thailand moved west-northwestwards with a speed of 16 kmph in past 06 hours. It lay centered at 1730 hours IST of today, the 04th January, 2019 over Thailand near latitude 8.5°N and longitude 99.7°E, about 820 km east-southeast of Port Blair. It is very likely to move west-northwestwards and emerge into Andaman Sea by tomorrow, the 05th January, 2019 forenoon. Thereafter, it is very likely to move northwestwards and cross Andaman Islands around evening/night of 06th January as a cyclonic storm with a wind speed of 70-80 kmph gusting to 90 kmph. Thereafter, it is very likely to move north-northwestwards and then recurve northeastwards towards Myanmar coast and weaken gradually during 7th-8th January, 2019.

Forecast track and intensity are given in the following table:

Date/Time(IST)	Position (Lat.°N/ long. °E)	Maximum sustained surface wind speed (Kmph)	Category of cyclonic disturbance
04.01.19/1730	8.5/99.7	80-90 gusting to 100	Cyclonic Storm
04.01.19/2330	8.6/99.0	80-90 gusting to 100	Cyclonic Storm
05.01.19/0530	8.9/98.2	80-90 gusting to 100	Cyclonic Storm
05.01.19/1130	9.2/97.5	80-90 gusting to 100	Cyclonic Storm
05.01.19/1730	9.5/96.8	75-85 gusting to 95	Cyclonic Storm
06.01.19/0530	10.4/95.3	75-85 gusting to 95	Cyclonic Storm
06.01.19/1730	11.3/93.3	70-80 gusting to 90	Cyclonic Storm
07.01.19/0530	12.2/91.3	70-80 gusting to 90	Cyclonic Storm
07.01.19/1730	13.7/90.7	65-75 gusting to 85	Cyclonic Storm
08.01.19/0530	15.4/91.0	50-60 gusting to 70	Deep Depression
08.01.19/1730	16.8/91.3	40-50 gusting to 60	Depression

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

Rainfall amount (mm): Heavy rain: 64.5 – 115.5, Very heavy rain: 115.6 – 204.4, Extremely heavy rain: 204.5 or more.

Warnings:

(i) Heavy rainfall warning

Rainfall at many places with heavy falls at isolated places very likely to commence over Andaman Islands from 5th January evening. Intensity is very likely to increase with rainfall at most places with heavy to very heavy rainfall at a few places on 6th and at isolated places on 7th over Andaman Islands.

(ii) Wind warning

- Gale wind speed reaching 80-90 kmph gusting to 100 kmph is likely to prevail over Andaman Sea and along & off south Myanmar & Thailand coasts till 5th evening.
- Gale wind speed reaching 70-80 kmph gusting to 90 kmph is likely to prevail over Andaman Islands, Andaman Sea and adjoining areas of eastcentral and southeast Bay of Bengal from the 5th evening to 7th morning. It is very likely to gradually decrease thereafter becoming 50-60 kmph gusting to 70 kmph over southeast Bay of Bengal, Andaman Islands and adjoining Andaman Sea & eastcentral Bay of Bengal by 8th morning and 40-50 kmph gusting to 60 kmph over eastcentral and adjoining southeast Bay of Bengal by 8th evening.
- Squally wind speed reaching 40-50 kmph gusting to 60 kmph is likely to over Nicobar Islands till 6th.

(iii) Sea condition

- The sea condition will be high over Andaman Sea along and off south Myanmar and Thailand coast till 5th evening.
- The sea condition will be high over Andaman Islands, Andaman Sea and adjoining areas of eastcentral and southeast Bay of Bengal from the evening of 5th till the morning of 7th. Thereafter, it will become very rough over southeast Bay of Bengal, Andaman Islands and adjoining Andaman Sea and eastcentral Bay of Bengal by 8th morning and rough over eastcentral and adjoining southeast Bay of Bengal by 8th evening.
- The sea condition will be very rough over Nicobar Islands till 6th.

(iv) Damage Expected over Andaman Islands:

Damage to thatched huts, minor damage to power and communication lines due to breaking of branches. Major damage to Kutcha and damage to Pucca roads. Uprooting of small trees and some damage to paddy crops, banana, papaya trees and orchards. Sea water inundation in low lying areas after erosion of Kutcha embankments.

(v) Action suggested

- People in Andaman Islands are advised to remain in safe places.
- Total suspension of fishing operation over Andaman Sea and adjoining southeast and eastcentral Bay of Bengal during 4th-7th January and over eastcentral & adjoining southeast Bay of Bengal on 8th.
- Fishermen are advised not to venture into Andaman Sea and adjoining southeast and eastcentral Bay of Bengal during the same period.

The next bulletin will be issued at 2330 hrs IST of 04th January, 2019.

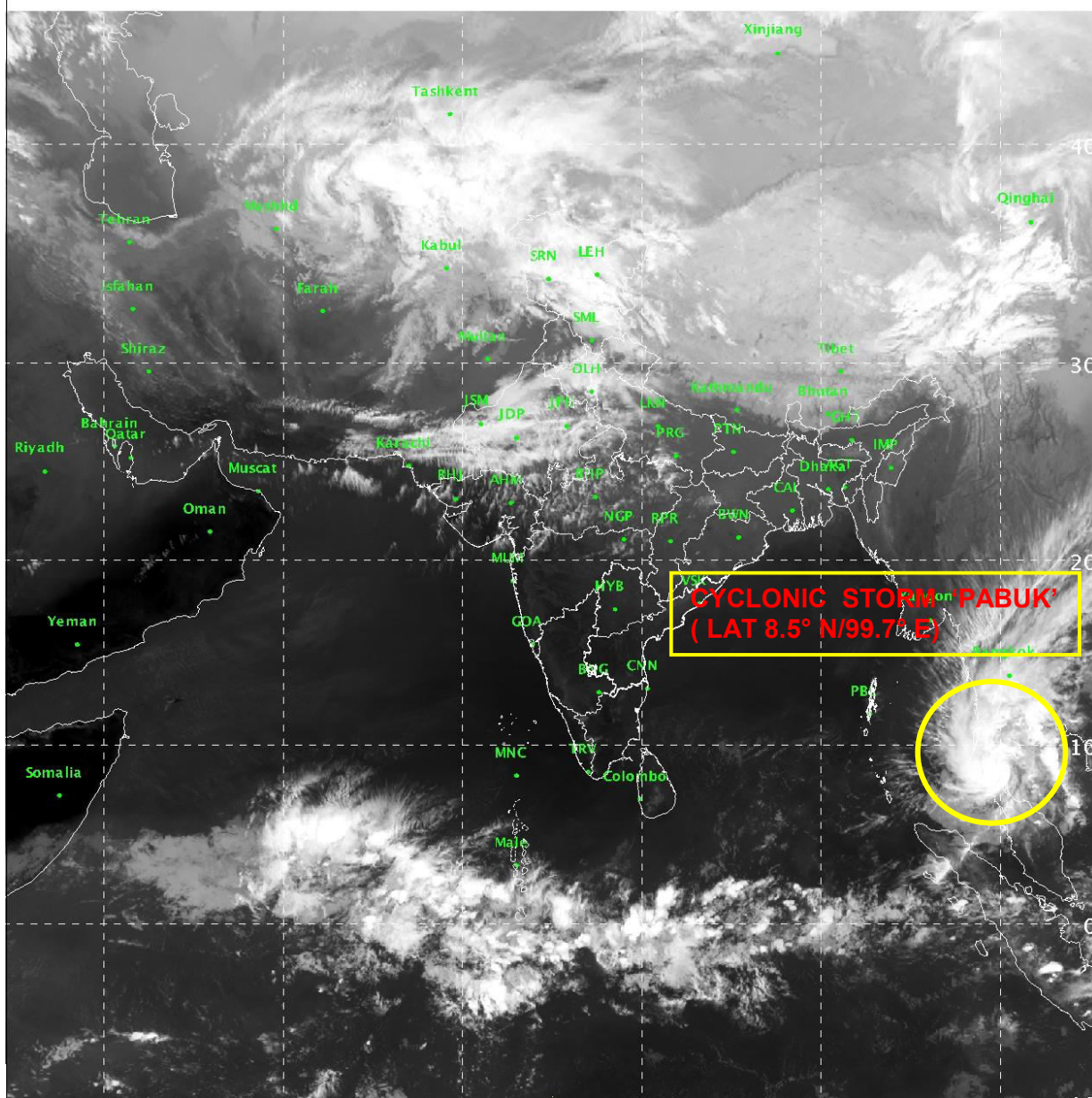
(Naresh Kumar)
Scientist-E, RSMC, New Delhi

Copy to: CRS, Pune/ ACWC Kolkata/ Chennai/ CWC Bhubaneswar/CWC Visakhapatnam/ MO Port Blair

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Rainfall amount (mm): Heavy rain: 64.5 – 115.5, Very heavy rain: 115.6 – 204.4, Extremely heavy rain: 204.5 or more.

SAT :INSAT-3D IMG
IMG_TIR1 10.8 um
L1C Mercator (LINEAR STRETCH: 1.0%)

04-01-2019/12:00 GMT
04-01-2019/17:30 IST

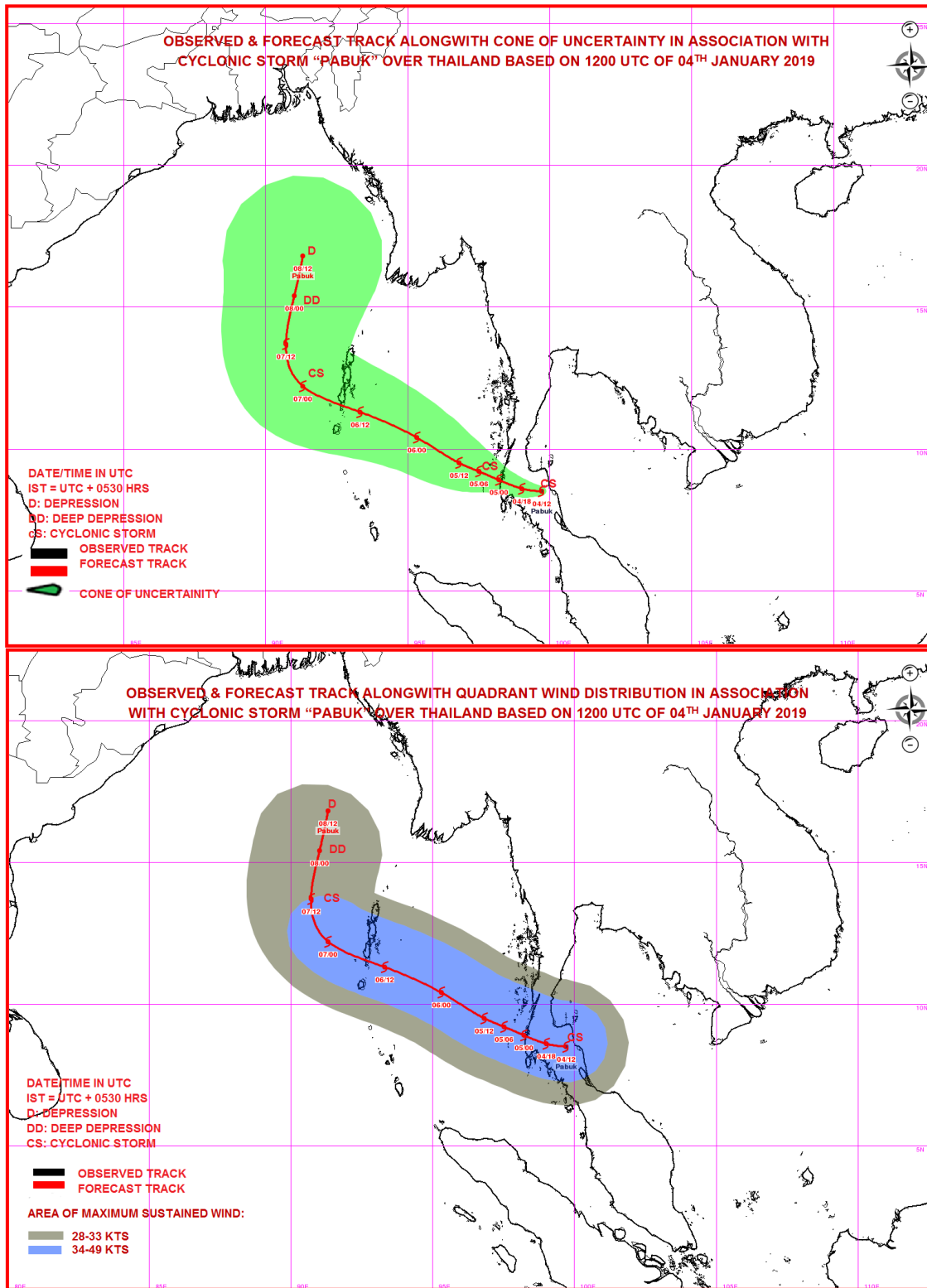


482

876

IMD/Delhi

Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
Rainfall amount (mm): Heavy rain: 64.5 – 115.5, Very heavy rain: 115.6 – 204.4, Extremely heavy rain: 204.5 or more.



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BULLETIN NO. : 04 (BOB/01/2019)

TIME OF ISSUE: 2200 HOURS IST

DATED: 04.01.2019

FROM: INDIA METEOROLOGICAL DEPARTMENT (FAX NO. 24643965/24699216/24623220)

TO: CONTROL ROOM, NDM, MINISTRY OF HOME AFFAIRS (FAX.NO. 23093750)

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CHIEF SECRETARY, ANDAMAN & NICOBAR ISLANDS (FAX NO. 03192- 232656)

CHIEF SECRETARY, WEST BENGAL (FAX NO. 033-22144328)

CHIEF SECRETARY, PUDUCHERRY (FAX NO. 0413-2337575)

**Sub: Cyclonic storm “PABUK” over Thailand & its emergence into Andaman Sea on 05th Jan., 2019
Cyclone Alert for Andaman Islands “YELLOW MESSAGE”**

The cyclonic storm “PABUK” over Gulf of Thailand & adjoining Thailand moved west-northwestwards with a speed of 10 kmph in past 06 hours. It lay centered at 2030 hours IST of today, the 04th January, 2019 over Thailand near latitude 8.6°N and longitude 99.5°E, about 810 km east-southeast of Port Blair. It is very likely to move west-northwestwards and emerge into Andaman Sea by tomorrow, the 05th January, 2019 forenoon. Thereafter, it is very likely to move northwestwards and cross Andaman Islands around evening/night of 06th January as a cyclonic storm with a wind speed of 70-80 kmph gusting to 90 kmph. Thereafter, it is very likely to move north-northwestwards and then recurve northeastwards towards Myanmar coast and weaken gradually during 7th-8th January, 2019.

Forecast track and intensity are given in the following table:

Date/Time(IST)	Position (Lat.°N/ long. °E)	Maximum sustained surface wind speed (Kmph)	Category of cyclonic disturbance
04.01.19/2030	8.6/99.5	80-90 gusting to 100	Cyclonic Storm
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05.01.19/0530	8.9/98.2	80-90 gusting to 100	Cyclonic Storm
05.01.19/1130	9.2/97.5	80-90 gusting to 100	Cyclonic Storm
05.01.19/1730	9.5/96.8	75-85 gusting to 95	Cyclonic Storm
06.01.19/0530	10.4/95.3	75-85 gusting to 95	Cyclonic Storm
06.01.19/1730	11.3/93.3	70-80 gusting to 90	Cyclonic Storm
07.01.19/0530	12.2/91.3	70-80 gusting to 90	Cyclonic Storm
07.01.19/1730	13.7/90.7	65-75 gusting to 85	Cyclonic Storm
08.01.19/0530	15.4/91.0	50-60 gusting to 70	Deep Depression
08.01.19/1730	16.8/91.3	40-50 gusting to 60	Depression

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

Rainfall amount (mm): Heavy rain: 64.5 – 115.5, Very heavy rain: 115.6 – 204.4, Extremely heavy rain: 204.5 or more.

Warnings:

(i) Heavy rainfall warning

Rainfall at many places with heavy falls at isolated places very likely to commence over Andaman Islands from 5th January evening. Intensity is very likely to increase with rainfall at most places with heavy to very heavy rainfall at a few places on 6th and at isolated places on 7th over Andaman Islands.

(ii) Wind warning

- Gale wind speed reaching 80-90 kmph gusting to 100 kmph is likely to prevail over Andaman Sea and along & off south Myanmar & Thailand coasts till 5th evening.
- Gale wind speed reaching 70-80 kmph gusting to 90 kmph is likely to prevail over Andaman Islands, Andaman Sea and adjoining areas of eastcentral and southeast Bay of Bengal from the 5th evening to 7th morning. It is very likely to gradually decrease thereafter becoming 50-60 kmph gusting to 70 kmph over southeast Bay of Bengal, Andaman Islands and adjoining Andaman Sea & eastcentral Bay of Bengal by 8th morning and 40-50 kmph gusting to 60 kmph over eastcentral and adjoining southeast Bay of Bengal by 8th evening.
- Squally wind speed reaching 40-50 kmph gusting to 60 kmph is likely to over Nicobar Islands till 6th.

(iii) Sea condition

- The sea condition will be high over Andaman Sea along and off south Myanmar and Thailand coast till 5th evening.
- The sea condition will be high over Andaman Islands, Andaman Sea and adjoining areas of eastcentral and southeast Bay of Bengal from the evening of 5th till the morning of 7th. Thereafter, it will become very rough over southeast Bay of Bengal, Andaman Islands and adjoining Andaman Sea and eastcentral Bay of Bengal by 8th morning and rough over eastcentral and adjoining southeast Bay of Bengal by 8th evening.
- The sea condition will be very rough over Nicobar Islands till 6th.

(iv) Damage Expected over Andaman Islands:

Damage to thatched huts, minor damage to power and communication lines due to breaking of branches. Major damage to Kutcha and damage to Pucca roads. Uprooting of small trees and some damage to paddy crops, banana, papaya trees and orchards. Sea water inundation in low lying areas after erosion of Kutcha embankments.

(v) Action suggested

- People in Andaman Islands are advised to remain in safe places.
- Total suspension of fishing operation over Andaman Sea and adjoining southeast and eastcentral Bay of Bengal during 4th-7th January and over eastcentral & adjoining southeast Bay of Bengal on 8th.
- Fishermen are advised not to venture into Andaman Sea and adjoining southeast and eastcentral Bay of Bengal during the same period.

The next bulletin will be issued at 0200 hrs IST of 05th January, 2019.

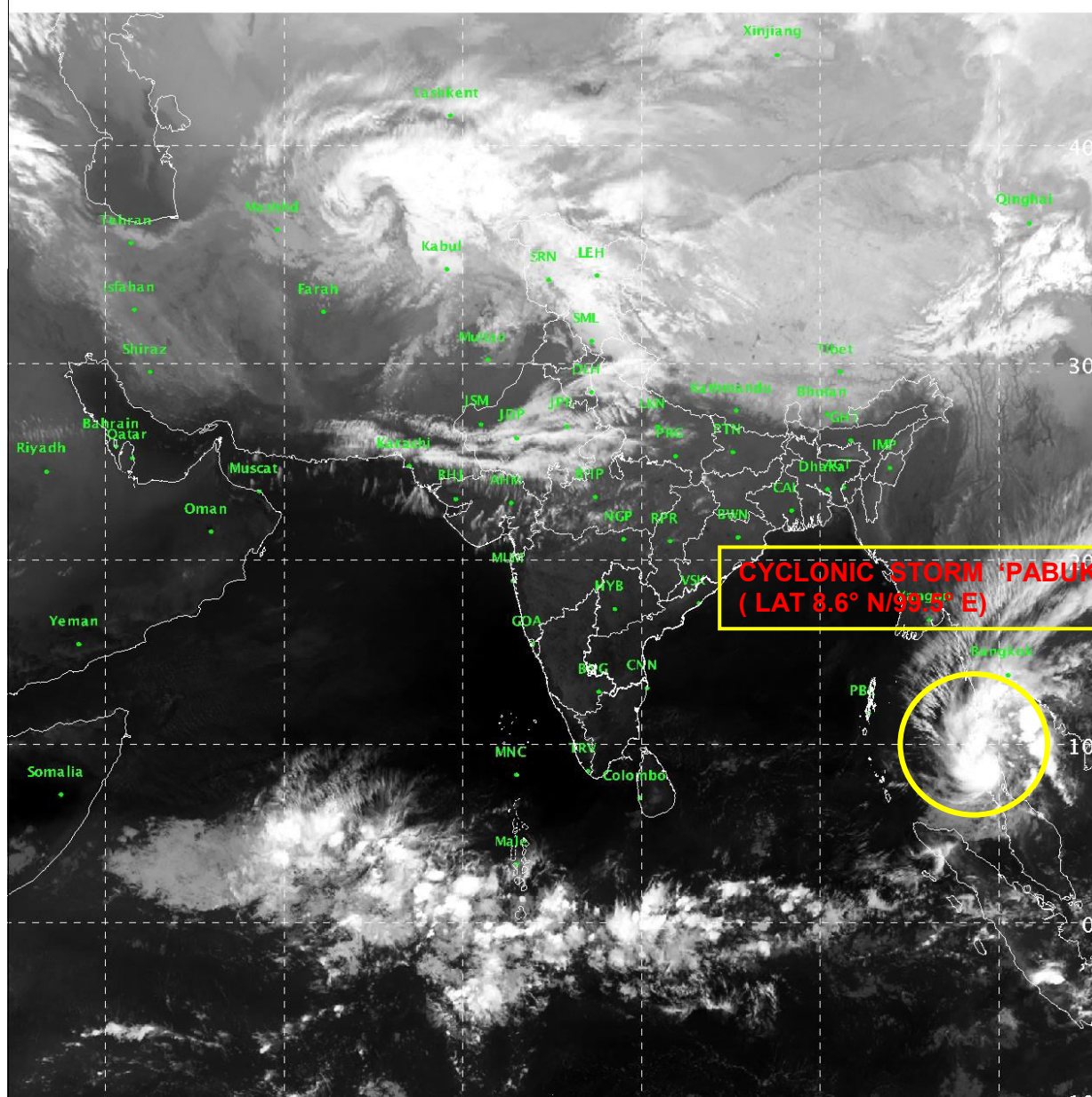
(D R Pattanaik)
Scientist-E, RSMC, New Delhi

Copy to: CRS, Pune/ ACWC Kolkata/ Chennai/ CWC Bhubaneswar/CWC Visakhapatnam/ MO Port Blair

Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
Rainfall amount (mm): Heavy rain: 64.5 – 115.5, Very heavy rain: 115.6 – 204.4, Extremely heavy rain: 204.5 or more.

04-01-2019/14:30 GMT

04-01-2019/20:00 IST



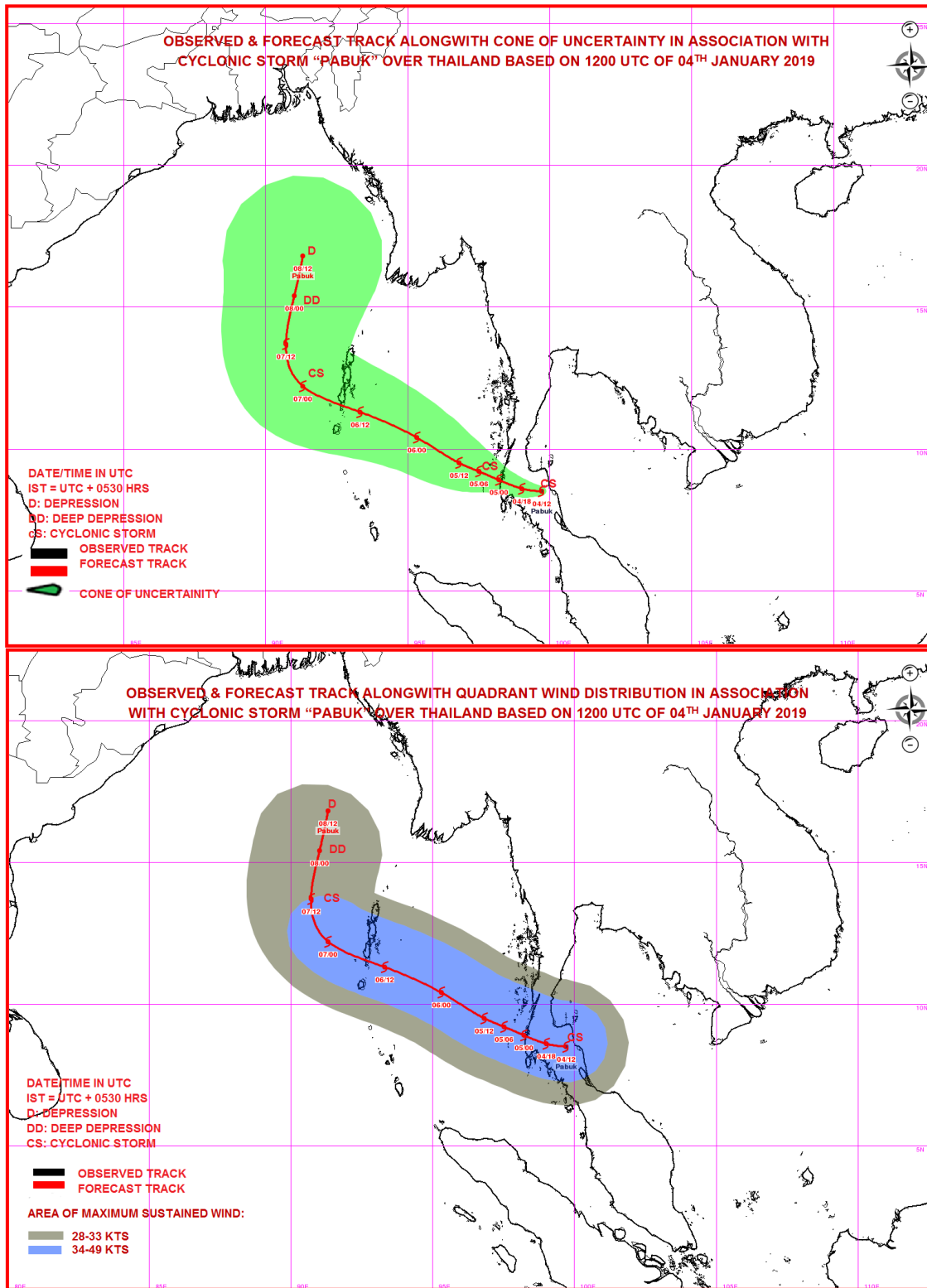
CYCLONIC STORM 'PABUK'
(LAT 8.6° N/99.5° E)



881

IMD/Delhi

Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
Rainfall amount (mm): Heavy rain: 64.5 – 115.5, Very heavy rain: 115.6 – 204.4, Extremely heavy rain: 204.5 or more.



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BULLETIN NO. : 05 (BOB/01/2019)

TIME OF ISSUE: 0130 HOURS IST

DATED: 05.01.2019

FROM: INDIA METEOROLOGICAL DEPARTMENT (FAX NO. 24643965/24699216/24623220)

TO: CONTROL ROOM, NDM, MINISTRY OF HOME AFFAIRS (FAX.NO. 23093750)

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**Sub: Cyclonic storm “PABUK” over Thailand & its emergence into Andaman Sea on 05th Jan., 2019
Cyclone Alert for Andaman Islands “YELLOW MESSAGE”**

The cyclonic storm “PABUK” over Gulf of Thailand & adjoining Thailand moved west-northwestwards with a speed of 10 kmph in past 06 hours. It lay centered at 2330 hours IST of yesterday, the 04th January, 2019 over Thailand near latitude 8.7°N and longitude 99.2°E, about 780 km east-southeast of Port Blair. It is very likely to move west-northwestwards and emerge into Andaman Sea by forenoon of today, the 05th January, 2019. Thereafter, it is very likely to move northwestwards and cross Andaman Islands around evening/night of 06th January as a cyclonic storm with a wind speed of 70-80 kmph gusting to 90 kmph. Thereafter, it is very likely to move north-northwestwards and then recurve northeastwards towards Myanmar coast and weaken gradually during 7th-8th January, 2019.

Forecast track and intensity are given in the following table:

Date/Time(IST)	Position (Lat.°N/ long. °E)	Maximum sustained surface wind speed (Kmph)	Category of cyclonic disturbance
04.01.19/2330	8.7/99.2	80-90 gusting to 100	Cyclonic Storm
05.01.19/0530	8.9/98.2	80-90 gusting to 100	Cyclonic Storm
05.01.19/1130	9.2/97.5	80-90 gusting to 100	Cyclonic Storm
05.01.19/1730	9.5/96.8	75-85 gusting to 95	Cyclonic Storm
05.01.19/2330	10.0/96.0	75-85 gusting to 95	Cyclonic Storm
06.01.19/1130	10.8/94.3	75-85 gusting to 95	Cyclonic Storm
06.01.19/2330	11.7/92.3	70-80 gusting to 90	Cyclonic Storm
07.01.19/1130	12.6/91.0	70-80 gusting to 90	Cyclonic Storm
07.01.19/2330	13.7/90.7	65-75 gusting to 85	Cyclonic Storm
08.01.19/1130	16.1/91.1	50-60 gusting to 70	Deep Depression
08.01.19/2330	17.2/91.5	40-50 gusting to 60	Depression

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

Rainfall amount (mm): Heavy rain: 64.5 – 115.5, Very heavy rain: 115.6 – 204.4, Extremely heavy rain: 204.5 or more.

Warnings:

(i) Heavy rainfall warning

Rainfall at many places with heavy falls at isolated places very likely to commence over Andaman Islands from 5th January evening. Intensity is very likely to increase with rainfall at most places with heavy to very heavy rainfall at a few places on 6th and at isolated places on 7th over Andaman Islands.

(ii) Wind warning

- Gale wind speed reaching 80-90 kmph gusting to 100 kmph is likely to prevail over Andaman Sea and along & off south Myanmar & Thailand coasts till 5th evening.
- Gale wind speed reaching 70-80 kmph gusting to 90 kmph is likely to prevail over Andaman Islands, Andaman Sea and adjoining areas of eastcentral and southeast Bay of Bengal from the 5th evening to 7th morning. It is very likely to gradually decrease thereafter becoming 50-60 kmph gusting to 70 kmph over southeast Bay of Bengal, Andaman Islands and adjoining Andaman Sea & eastcentral Bay of Bengal by 8th morning and 40-50 kmph gusting to 60 kmph over eastcentral and adjoining southeast Bay of Bengal by 8th evening.
- Squally wind speed reaching 40-50 kmph gusting to 60 kmph is likely to over Nicobar Islands till 6th.

(iii) Sea condition

- The sea condition will be high over Andaman Sea along and off south Myanmar and Thailand coast till 5th evening.
- The sea condition will be high over Andaman Islands, Andaman Sea and adjoining areas of eastcentral and southeast Bay of Bengal from the evening of 5th till the morning of 7th. Thereafter, it will become very rough over southeast Bay of Bengal, Andaman Islands and adjoining Andaman Sea and eastcentral Bay of Bengal by 8th morning and rough over eastcentral and adjoining southeast Bay of Bengal by 8th evening.
- The sea condition will be very rough over Nicobar Islands till 6th.

(iv) Damage Expected over Andaman Islands:

Damage to thatched huts, minor damage to power and communication lines due to breaking of branches. Major damage to Kutcha and damage to Pucca roads. Uprooting of small trees and some damage to paddy crops, banana, papaya trees and orchards. Sea water inundation in low lying areas after erosion of Kutcha embankments.

(v) Action suggested

- People in Andaman Islands are advised to remain in safe places.
- Total suspension of fishing operation over Andaman Sea and adjoining southeast and eastcentral Bay of Bengal during 4th-7th January and over eastcentral & adjoining southeast Bay of Bengal on 8th.
- Fishermen are advised not to venture into Andaman Sea and adjoining southeast and eastcentral Bay of Bengal during the same period.

The next bulletin will be issued at 0530 hrs IST of 05th January, 2019.

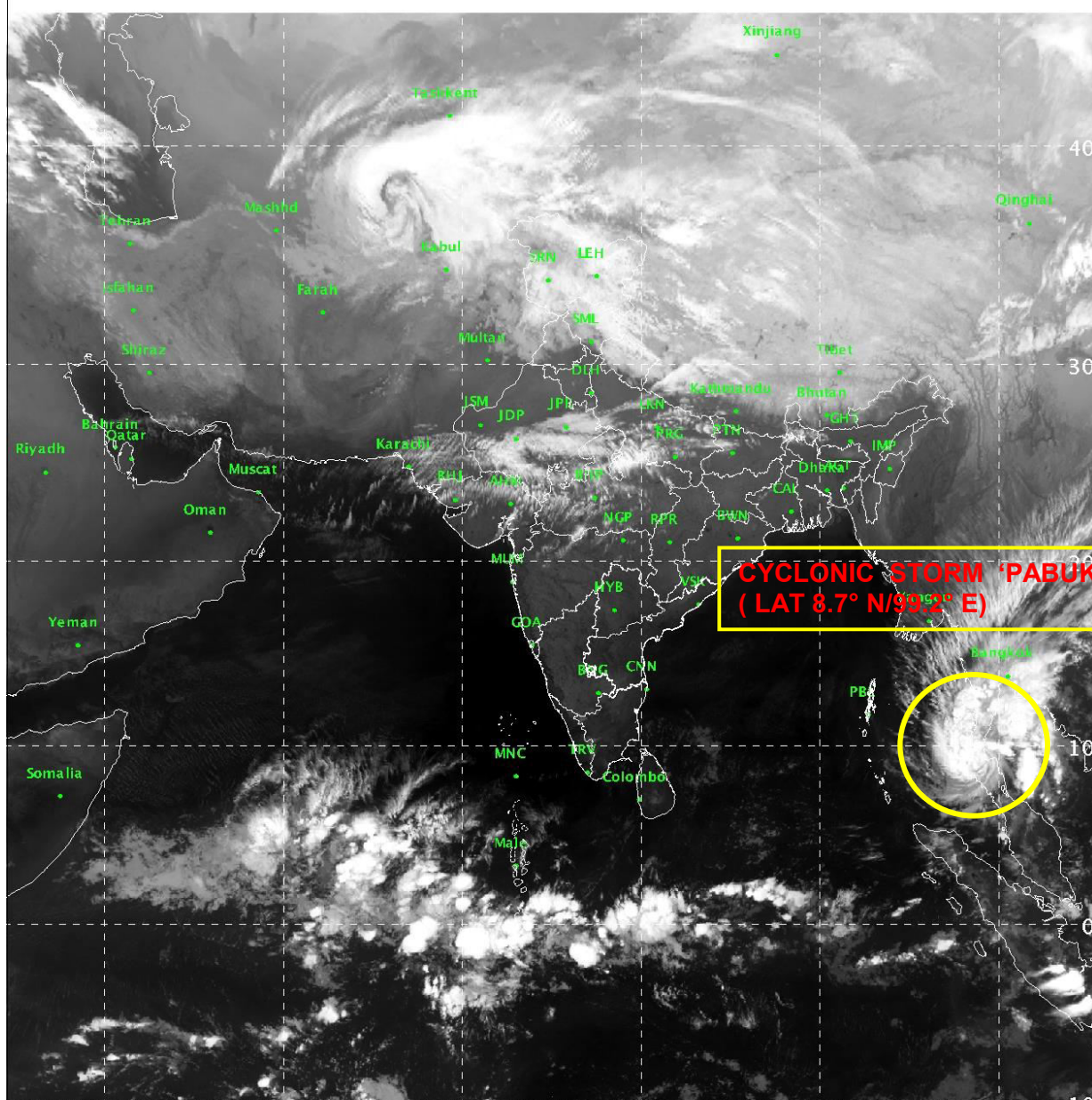
(D R Pattanaik)
Scientist-E, RSMC, New Delhi

Copy to: CRS, Pune/ ACWC Kolkata/ Chennai/ CWC Bhubaneswar/CWC Visakhapatnam/ MO Port Blair

Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
Rainfall amount (mm): Heavy rain: 64.5 – 115.5, Very heavy rain: 115.6 – 204.4, Extremely heavy rain: 204.5 or more.

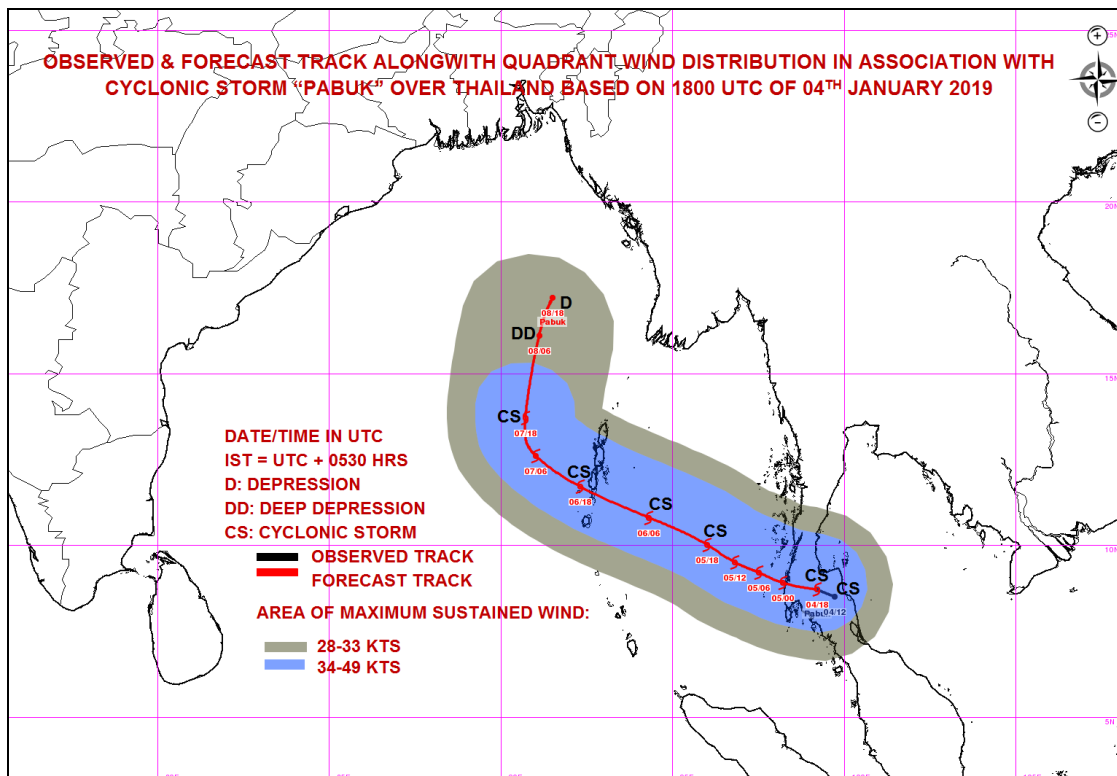
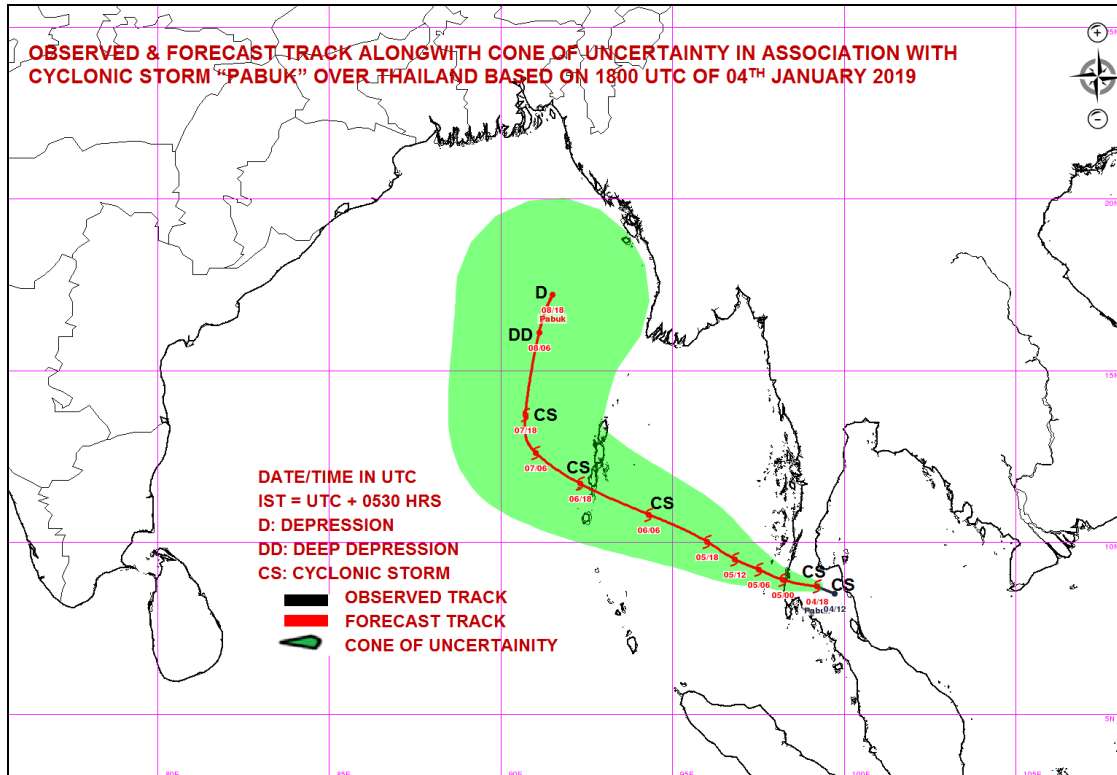
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 IMG_TIR1 10.8 um
 L1C Mercator (LINEAR STRETCH: 1.0%)

04-01-2019/18:30 GMT
 05-01-2019/00:00 IST



IMD/Delhi

Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
 Rainfall amount (mm): Heavy rain: 64.5 – 115.5, Very heavy rain: 115.6 – 204.4, Extremely heavy rain: 204.5 or more.



Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
Rainfall amount (mm): Heavy rain: 64.5 – 115.5, Very heavy rain: 115.6 – 204.4, Extremely heavy rain: 204.5 or more.



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

BULLETIN NO. : 06 (BOB/01/2019)

TIME OF ISSUE: 0530 HOURS IST

DATED: 05.01.2019

FROM: INDIA METEOROLOGICAL DEPARTMENT (FAX NO. 24643965/24699216/24623220)

TO: CONTROL ROOM, NDM, MINISTRY OF HOME AFFAIRS (FAX.NO. 23093750)

CONTROL ROOM NDMA (FAX.NO. 26701729)

CABINET SECRETARIAT (FAX.NO.23012284, 23018638)

PS TO HON'BLE MINISTER FOR S & T AND EARTH SCIENCES (FAX NO.23316745)

SECRETARY, MOES, (FAX NO. 24629777)

H.Q. (INTEGRATED DEFENCE STAFF AND CDS) (FAX NO. 23005137/23005147)

DIRECTOR GENERAL, DOORDARSHAN (23385843)

DIRECTOR GENERAL, AIR (23421105, 23421219)

PIB MOES (FAX NO. 23389042)

UNI (FAX NO. 23355841)

D.G. NATIONAL DISASTER RESPONSE FORCE (NDRF) (FAX NO. 26105912)

DIRECTOR, PUNCTUALITY, INDIAN RAILWAYS (FAX NO. 23388503)

CHIEF SECRETARY, GOVT. OF ODISHA (FAX NO. 0674 -2536660)

CHIEF SECRETARY, ANDHRA PRADESH (FAX NO. 0863-2441029)

CHIEF SECRETARY, TAMIL NADU (FAX NO. 044-25672304)

CHIEF SECRETARY, ANDAMAN & NICOBAR ISLANDS (FAX NO. 03192- 232656)

CHIEF SECRETARY, WEST BENGAL (FAX NO. 033-22144328)

CHIEF SECRETARY, PUDUCHERRY (FAX NO. 0413-2337575)

**Sub: Cyclonic storm “PABUK” over Thailand & its emergence into Andaman Sea on 05th Jan., 2019
Cyclone Alert for Andaman Islands “YELLOW MESSAGE”**

The cyclonic storm “PABUK” over Gulf of Thailand & adjoining Thailand moved west-northwestwards with a speed of 10 kmph in past 06 hours. It lay centered at 0230 hours IST of today, the 05th January, 2019 over Thailand near latitude 8.8°N and longitude 99.0°E, about 750 km east-southeast of Port Blair. It is very likely to move west-northwestwards and emerge into Andaman Sea by forenoon of today, the 05th January, 2019. Thereafter, it is very likely to move northwestwards and cross Andaman Islands around evening/night of 06th January as a cyclonic storm with a wind speed of 70-80 kmph gusting to 90 kmph. Thereafter, it is very likely to move north-northwestwards and then recurve northeastwards towards Myanmar coast and weaken gradually during 7th-8th January, 2019.

Forecast track and intensity are given in the following table:

Date/Time(IST)	Position (Lat.°N/ long. °E)	Maximum sustained surface wind speed (Kmph)	Category of cyclonic disturbance
05.01.19/0230	8.8/99.0	80-90 gusting to 100	Cyclonic Storm
05.01.19/0530	8.9/98.2	80-90 gusting to 100	Cyclonic Storm
05.01.19/1130	9.2/97.5	80-90 gusting to 100	Cyclonic Storm
05.01.19/1730	9.5/96.8	75-85 gusting to 95	Cyclonic Storm
05.01.19/2330	10.0/96.0	75-85 gusting to 95	Cyclonic Storm
06.01.19/1130	10.8/94.3	75-85 gusting to 95	Cyclonic Storm
06.01.19/2330	11.7/92.3	70-80 gusting to 90	Cyclonic Storm
07.01.19/1130	12.6/91.0	70-80 gusting to 90	Cyclonic Storm
07.01.19/2330	13.7/90.7	65-75 gusting to 85	Cyclonic Storm
08.01.19/1130	16.1/91.1	50-60 gusting to 70	Deep Depression
08.01.19/2330	17.2/91.5	40-50 gusting to 60	Depression

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

Rainfall amount (mm): Heavy rain: 64.5 – 115.5, Very heavy rain: 115.6 – 204.4, Extremely heavy rain: 204.5 or more.

Warnings:

(i) Heavy rainfall warning

Rainfall at many places with heavy falls at isolated places very likely to commence over Andaman Islands from 5th January evening. Intensity is very likely to increase with rainfall at most places with heavy to very heavy rainfall at a few places on 6th and at isolated places on 7th over Andaman Islands.

(ii) Wind warning

- Gale wind speed reaching 80-90 kmph gusting to 100 kmph is likely to prevail over Andaman Sea and along & off south Myanmar & Thailand coasts till 5th evening.
- Gale wind speed reaching 70-80 kmph gusting to 90 kmph is likely to prevail over Andaman Islands, Andaman Sea and adjoining areas of eastcentral and southeast Bay of Bengal from the 5th evening to 7th morning. It is very likely to gradually decrease thereafter becoming 50-60 kmph gusting to 70 kmph over southeast Bay of Bengal, Andaman Islands and adjoining Andaman Sea & eastcentral Bay of Bengal by 8th morning and 40-50 kmph gusting to 60 kmph over eastcentral and adjoining southeast Bay of Bengal by 8th evening.
- Squally wind speed reaching 40-50 kmph gusting to 60 kmph is likely to over Nicobar Islands till 6th.

(iii) Sea condition

- The sea condition will be high over Andaman Sea along and off south Myanmar and Thailand coast till 5th evening.
- The sea condition will be high over Andaman Islands, Andaman Sea and adjoining areas of eastcentral and southeast Bay of Bengal from the evening of 5th till the morning of 7th. Thereafter, it will become very rough over southeast Bay of Bengal, Andaman Islands and adjoining Andaman Sea and eastcentral Bay of Bengal by 8th morning and rough over eastcentral and adjoining southeast Bay of Bengal by 8th evening.
- The sea condition will be very rough over Nicobar Islands till 6th.

(iv) Damage Expected over Andaman Islands:

Damage to thatched huts, minor damage to power and communication lines due to breaking of branches. Major damage to Kutcha and damage to Pucca roads. Uprooting of small trees and some damage to paddy crops, banana, papaya trees and orchards. Sea water inundation in low lying areas after erosion of Kutcha embankments.

(v) Action suggested

- People in Andaman Islands are advised to remain in safe places.
- Total suspension of fishing operation over Andaman Sea and adjoining southeast and eastcentral Bay of Bengal during 5th-7th January and over eastcentral & adjoining southeast Bay of Bengal on 8th.
- Fishermen are advised not to venture into Andaman Sea and adjoining southeast and eastcentral Bay of Bengal during the same period.

The next bulletin will be issued at 0830 hrs IST of 05th January, 2019.

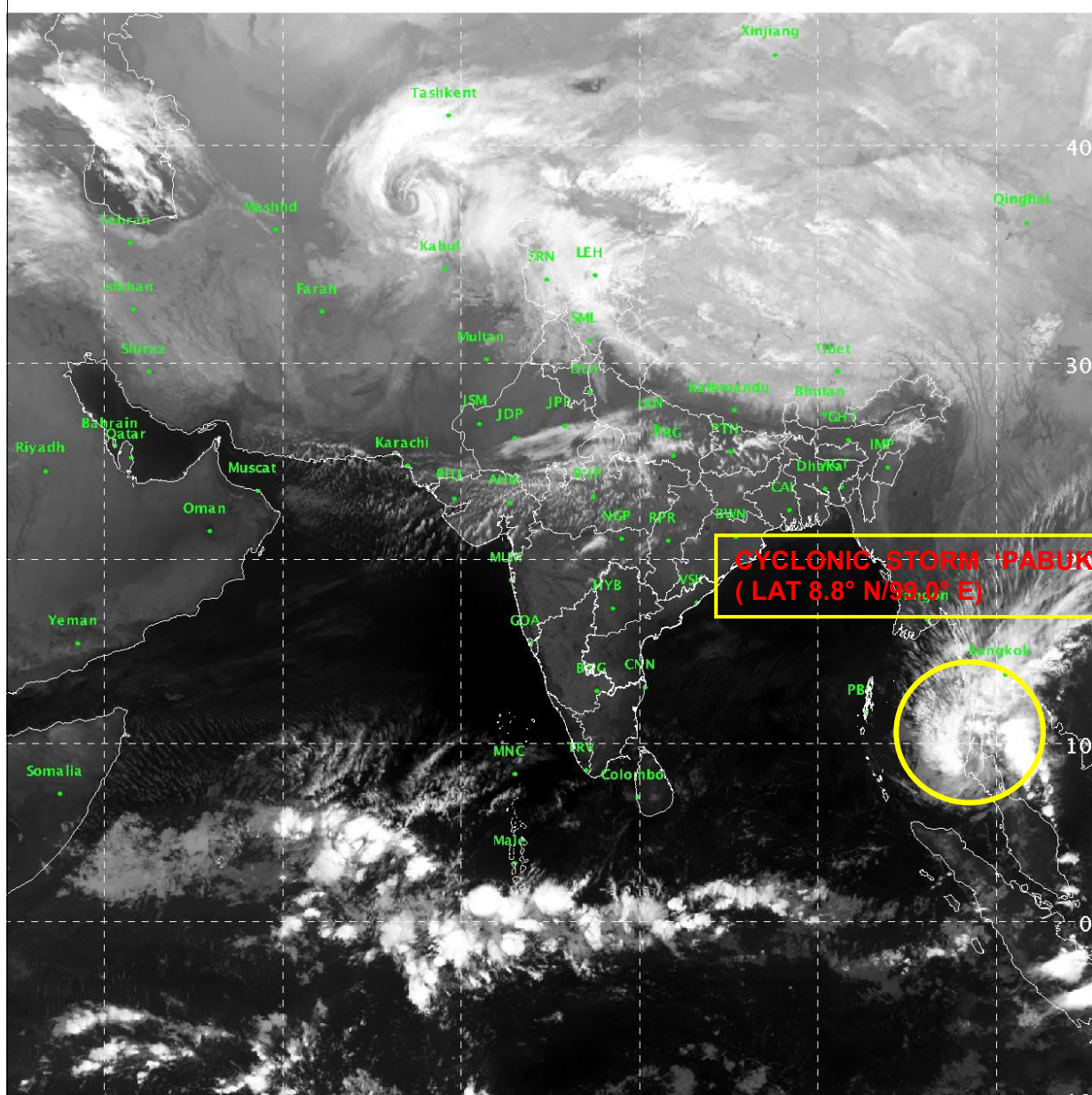
(D R Pattanaik)
Scientist-E, RSMC, New Delhi

Copy to: CRS, Pune/ ACWC Kolkata/ Chennai/ CWC Bhubaneswar/CWC Visakhapatnam/ MO Port Blair

Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
Rainfall amount (mm): Heavy rain: 64.5 – 115.5, Very heavy rain: 115.6 – 204.4, Extremely heavy rain: 204.5 or more.

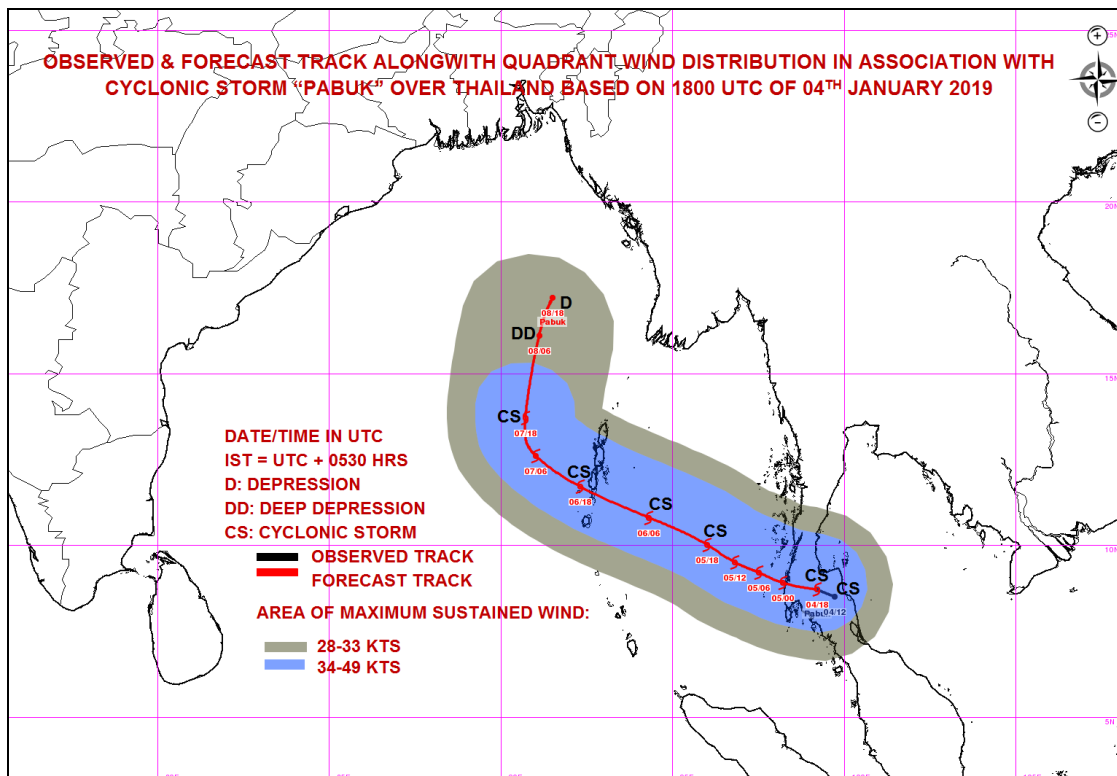
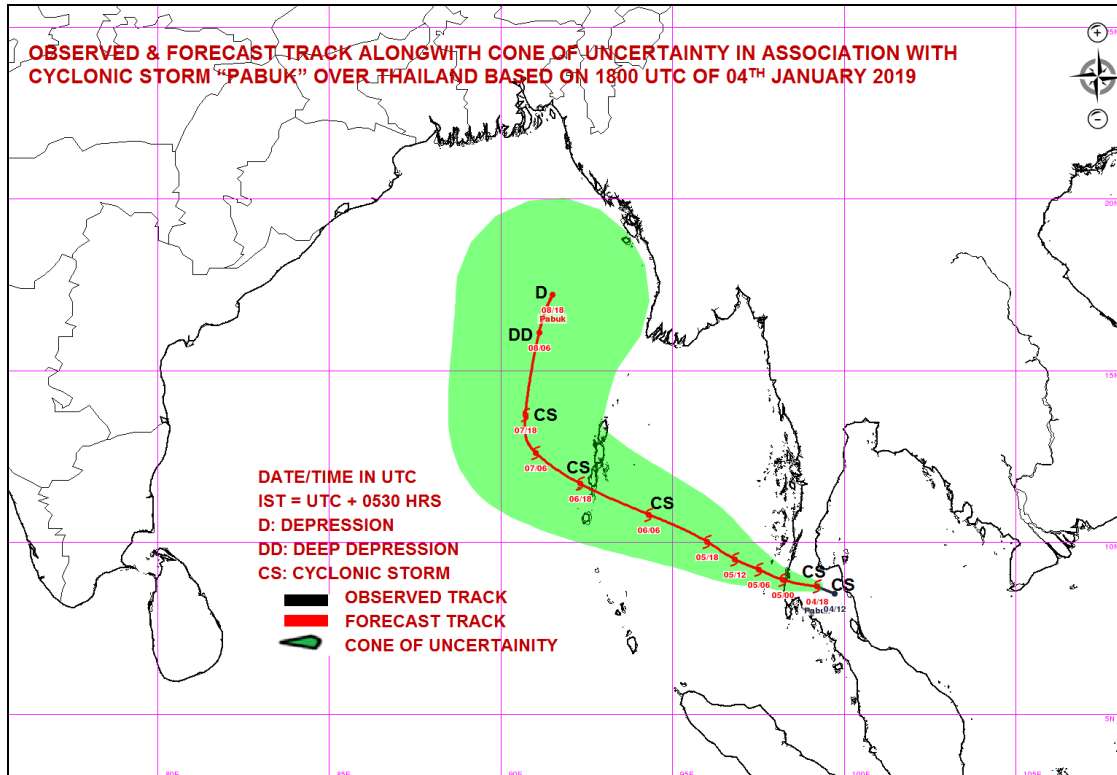
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 IMG_TIR1 10.8 um
 L1C Mercator (LINEAR STRETCH: 1.0%)

04-01-2019/23:00 GMT
 05-01-2019/04:30 IST



IMD/Delhi

Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
 Rainfall amount (mm): Heavy rain: 64.5 – 115.5, Very heavy rain: 115.6 – 204.4, Extremely heavy rain: 204.5 or more.



Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
Rainfall amount (mm): Heavy rain: 64.5 – 115.5, Very heavy rain: 115.6 – 204.4, Extremely heavy rain: 204.5 or more.



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

BULLETIN NO. : 07 (BOB/01/2019)

TIME OF ISSUE: 0830 HOURS IST

DATED: 05.01.2019

FROM: INDIA METEOROLOGICAL DEPARTMENT (FAX NO. 24643965/24699216/24623220)

TO: CONTROL ROOM, NDM, MINISTRY OF HOME AFFAIRS (FAX.NO. 23093750)

CONTROL ROOM NDMA (FAX.NO. 26701729)

CABINET SECRETARIAT (FAX.NO.23012284, 23018638)

PS TO HON'BLE MINISTER FOR S & T AND EARTH SCIENCES (FAX NO.23316745)

SECRETARY, MOES, (FAX NO. 24629777)

H.Q. (INTEGRATED DEFENCE STAFF AND CDS) (FAX NO. 23005137/23005147)

DIRECTOR GENERAL, DOORDARSHAN (23385843)

DIRECTOR GENERAL, AIR (23421105, 23421219)

PIB MOES (FAX NO. 23389042)

UNI (FAX NO. 23355841)

D.G. NATIONAL DISASTER RESPONSE FORCE (NDRF) (FAX NO. 26105912)

DIRECTOR, PUNCTUALITY, INDIAN RAILWAYS (FAX NO. 23388503)

CHIEF SECRETARY, GOVT. OF ODISHA (FAX NO. 0674 -2536660)

CHIEF SECRETARY, ANDHRA PRADESH (FAX NO. 0863-2441029)

CHIEF SECRETARY, TAMIL NADU (FAX NO. 044-25672304)

CHIEF SECRETARY, ANDAMAN & NICOBAR ISLANDS (FAX NO. 03192- 232656)

CHIEF SECRETARY, WEST BENGAL (FAX NO. 033-22144328)

CHIEF SECRETARY, PUDUCHERRY (FAX NO. 0413-2337575)

Sub: Cyclonic storm "PABUK" over Thailand & its emergence into Andaman Sea today (05th Jan., 2019) - Cyclone Alert for Andaman Islands "YELLOW MESSAGE"

The cyclonic storm "PABUK" over Gulf of Thailand and neighbourhood moved west-northwestwards with a speed of 10 kmph in past 06 hours. It lay centered at 0530 hours IST of today, the 05th January, 2019 over Thailand and neighbourhood near latitude 8.9°N and longitude 98.7°E, about 720 km east-southeast of Port Blair. It is very likely to move west-northwestwards and emerge into Andaman Sea by forenoon of today, the 05th January, 2019. Thereafter, it is very likely to move northwestwards and cross Andaman Islands around evening/night of 06th January as a cyclonic storm with a wind speed of 70-80 kmph gusting to 90 kmph. Thereafter, it is very likely to move north-northwestwards and then recurve northeastwards towards Myanmar coast and weaken gradually during 7th-8th January, 2019.

Forecast track and intensity are given in the following table:

Date/Time(IST)	Position (Lat.°N/ long. °E)	Maximum sustained surface wind speed (Kmph)	Category of cyclonic disturbance
05.01.19/0530	8.9/98.7	70-80 gusting to 90	Cyclonic Storm
05.01.19/1130	9.2/97.6	70-80 gusting to 90	Cyclonic Storm
05.01.19/1730	9.5/96.5	70-80 gusting to 90	Cyclonic Storm
05.01.19/2330	9.8/95.7	75-85 gusting to 95	Cyclonic Storm
06.01.19/0530	10.5/94.4	75-85 gusting to 95	Cyclonic Storm
06.01.19/1730	11.1/93.3	70-80 gusting to 90	Cyclonic Storm
07.01.19/0530	11.8/92.2	65-75 gusting to 85	Cyclonic Storm
07.01.19/1730	12.6/91.0	50-60 gusting to 70	Deep Depression
08.01.19/0530	13.7/90.7	50-60 gusting to 70	Deep Depression
08.01.19/1730	16.1/91.1	40-50 gusting to 60	Depression

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

Rainfall amount (mm): Heavy rain: 64.5 – 115.5, Very heavy rain: 115.6 – 204.4, Extremely heavy rain: 204.5 or more.

Warnings:

(i) Heavy rainfall warning

Rainfall at many places with heavy falls at isolated places very likely to commence over Andaman Islands from 5th January evening. Intensity is very likely to increase with rainfall at most places with heavy to very heavy rainfall at a few places on 6th and at isolated places on 7th over Andaman Islands.

(ii) Wind warning

- Gale wind speed reaching 70-80 kmph gusting to 90 kmph is likely to prevail over Andaman Sea and along & off south Myanmar & Thailand coasts till 5th evening.
- Gale wind speed reaching 70-80 kmph gusting to 90 kmph is likely to prevail over Andaman Islands, Andaman Sea and adjoining areas of eastcentral and southeast Bay of Bengal from the 5th evening to 7th morning. It is very likely to gradually decrease thereafter becoming 50-60 kmph gusting to 70 kmph over southeast Bay of Bengal, Andaman Islands and adjoining Andaman Sea & eastcentral Bay of Bengal by 8th morning and 40-50 kmph gusting to 60 kmph over eastcentral and adjoining southeast Bay of Bengal by 8th evening.
- Squally wind speed reaching 40-50 kmph gusting to 60 kmph is likely to over Nicobar Islands till 6th.

(iii) Sea condition

- The sea condition will be high over Andaman Sea along and off south Myanmar and Thailand coast till 5th evening.
- The sea condition will be high over Andaman Islands, Andaman Sea and adjoining areas of eastcentral and southeast Bay of Bengal from the evening of 5th till the morning of 7th. Thereafter, it will become very rough over southeast Bay of Bengal, Andaman Islands and adjoining Andaman Sea and eastcentral Bay of Bengal by 8th morning and rough over eastcentral and adjoining southeast Bay of Bengal by 8th evening.
- The sea condition will be very rough over Nicobar Islands till 6th.

(iv) Damage Expected over Andaman Islands:

Damage to thatched huts, minor damage to power and communication lines due to breaking of branches. Major damage to Kutcha and damage to Pucca roads. Uprooting of small trees and some damage to paddy crops, banana, papaya trees and orchards. Sea water inundation in low lying areas after erosion of Kutcha embankments.

(v) Action suggested

- People in Andaman Islands are advised to remain in safe places.
- Total suspension of fishing operation over Andaman Sea and adjoining southeast and eastcentral Bay of Bengal during 5th-7th January and over eastcentral & adjoining southeast Bay of Bengal on 8th.
- Fishermen are advised not to venture into Andaman Sea and adjoining southeast and eastcentral Bay of Bengal during the same period.

The next bulletin will be issued at 1130 hrs IST of 05th January, 2019.

(D R Pattanaik)
Scientist-E, RSMC, New Delhi

Copy to: CRS, Pune/ ACWC Kolkata/ Chennai/ CWC Bhubaneswar/CWC Visakhapatnam/ MO Port Blair

Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
Rainfall amount (mm): Heavy rain: 64.5 – 115.5, Very heavy rain: 115.6 – 204.4, Extremely heavy rain: 204.5 or more.

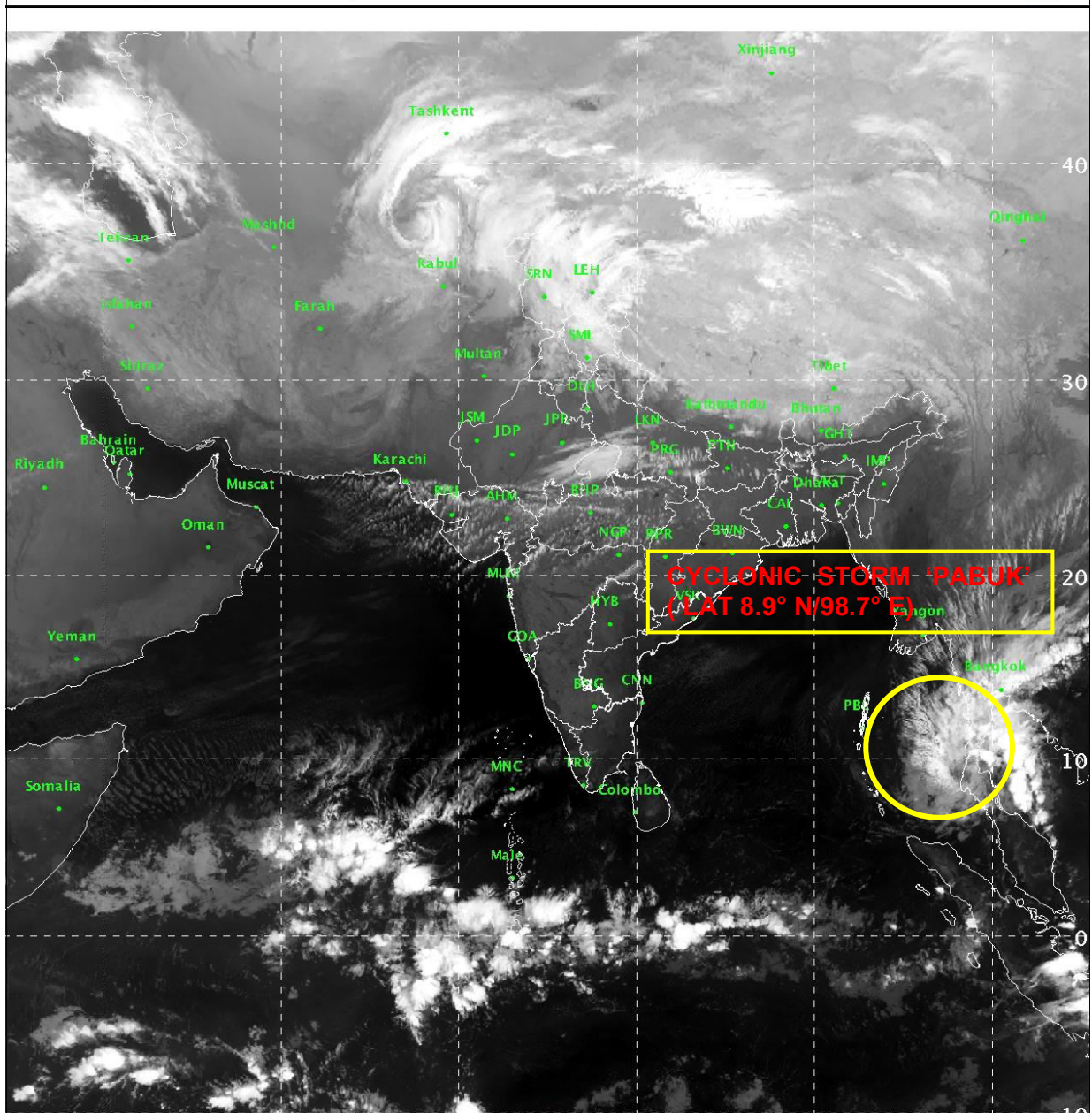
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IMG_TIR1 10.8 um

L1C Mercator (LINEAR STRETCH: 1.0%)

05-01-2019/01:30 GMT

05-01-2019/07:00 IST

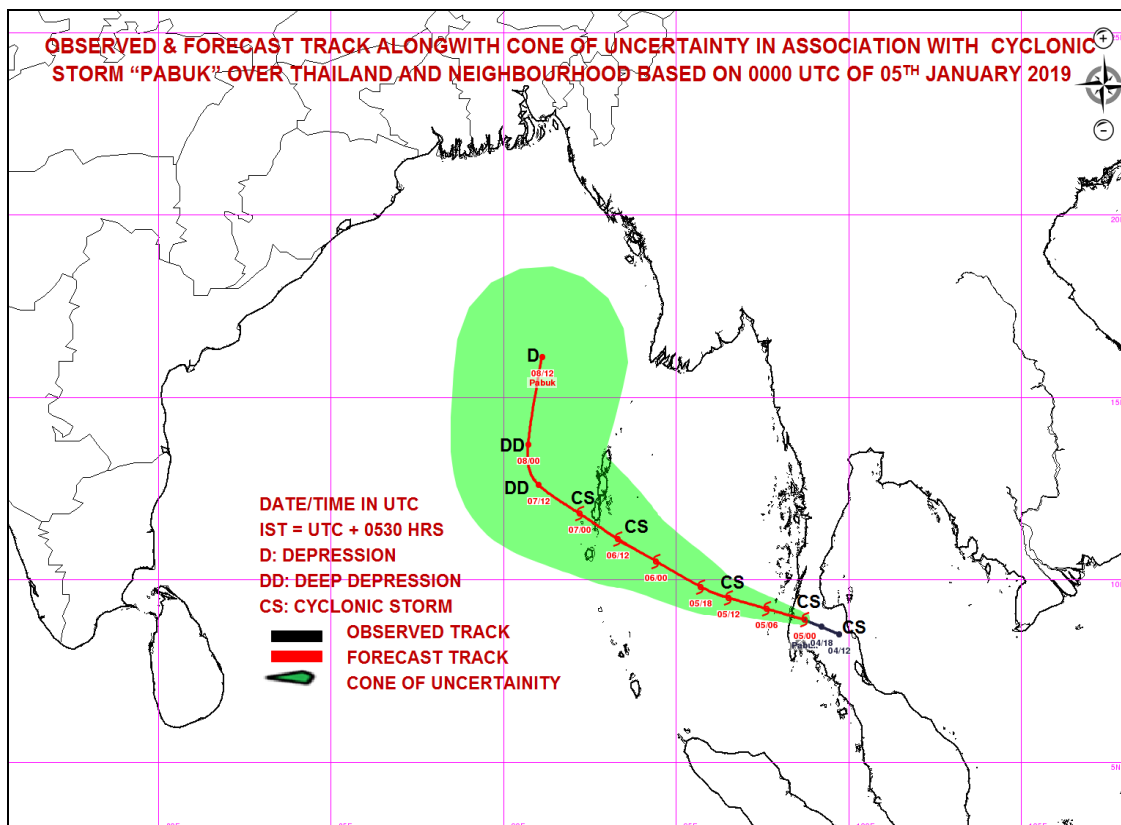
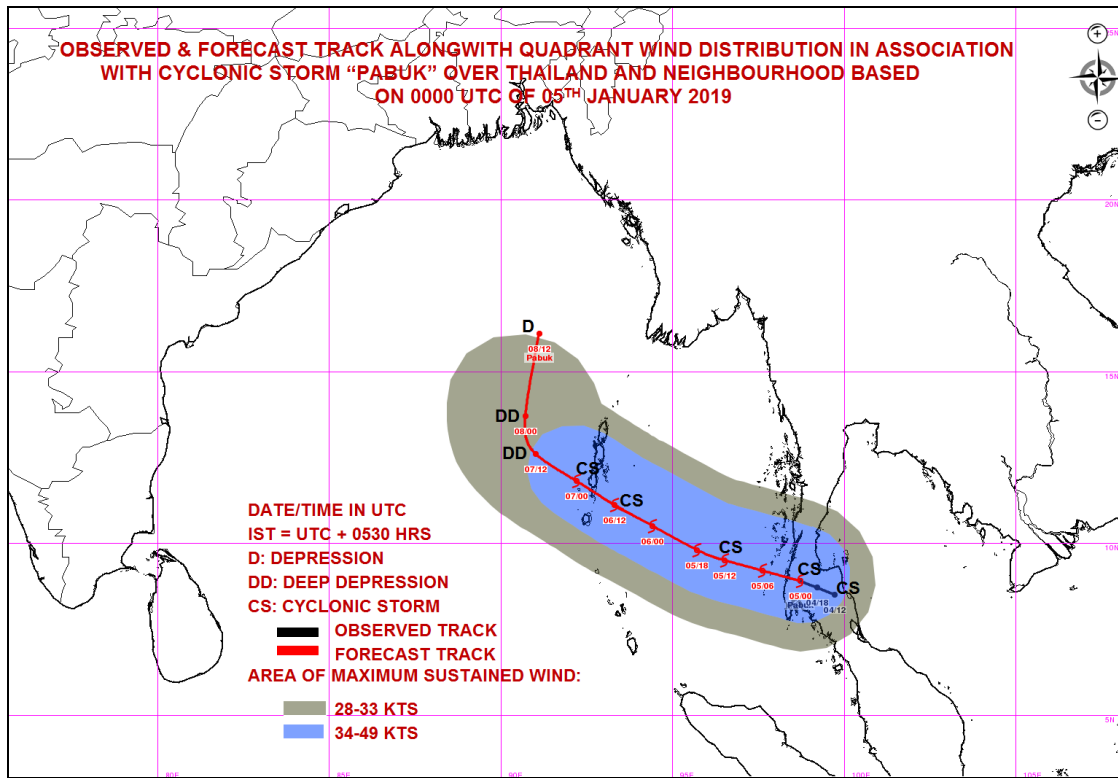


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IMD/Delhi

Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
Rainfall amount (mm): Heavy rain: 64.5 – 115.5, Very heavy rain: 115.6 – 204.4, Extremely heavy rain: 204.5 or more.



Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
Rainfall amount (mm): Heavy rain: 64.5 – 115.5, Very heavy rain: 115.6 – 204.4, Extremely heavy rain: 204.5 or more.



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

BULLETIN NO. : 08 (BOB/01/2019)

TIME OF ISSUE: 1230 HOURS IST

DATED: 05.01.2019

FROM: INDIA METEOROLOGICAL DEPARTMENT (FAX NO. 24643965/24699216/24623220)

**TO: CONTROL ROOM, NDM, MINISTRY OF HOME AFFAIRS (FAX.NO. 23093750)
CONTROL ROOM NDMA (FAX.NO. 26701729)
CABINET SECRETARIAT (FAX.NO.23012284, 23018638)
PS TO HON'BLE MINISTER FOR S & T AND EARTH SCIENCES (FAX NO.23316745)
SECRETARY, MOES, (FAX NO. 24629777)
H.Q. (INTEGRATED DEFENCE STAFF AND CDS) (FAX NO. 23005137/23005147)
DIRECTOR GENERAL, DOORDARSHAN (23385843)
DIRECTOR GENERAL, AIR (23421105, 23421219)
PIB MOES (FAX NO. 23389042)
UNI (FAX NO. 23355841)
D.G. NATIONAL DISASTER RESPONSE FORCE (NDRF) (FAX NO. 26105912)
DIRECTOR, PUNCTUALITY, INDIAN RAILWAYS (FAX NO. 23388503)
CHIEF SECRETARY, GOVT. OF ODISHA (FAX NO. 0674 -2536660)
CHIEF SECRETARY, ANDHRA PRADESH (FAX NO. 0863-2441029)
CHIEF SECRETARY, TAMIL NADU (FAX NO. 044-25672304)
CHIEF SECRETARY, ANDAMAN & NICOBAR ISLANDS (FAX NO. 03192- 232656)
CHIEF SECRETARY, WEST BENGAL (FAX NO. 033-22144328)
CHIEF SECRETARY, PUDUCHERRY (FAX NO. 0413-2337575)**

Sub: Cyclonic storm “PABUK” over Andaman Sea & neighbourhood- Cyclone warning for Andaman Islands “ORANGE MESSAGE”

The cyclonic storm “PABUK” over Gulf of Thailand & neighbourhood moved west-northwestwards with a speed of 17 kmph in past 06 hours. It lay centered at 0830 hours IST of today, the 05th January, 2019 over Andaman Sea & neighbourhood near latitude 9.1°N and longitude 98.1°E, about 650 km east-southeast of Port Blair. It is very likely to move west-northwestwards for some more time. Thereafter, it is very likely to move northwestwards and cross Andaman Islands around evening/night of 06th January as a cyclonic storm with a wind speed of 70-80 kmph gusting to 90 kmph. Thereafter, it is very likely to move north-northwestwards and then recurve northeastwards towards Myanmar coast and weaken gradually during 7th-8th January, 2019.

Forecast track and intensity are given in the following table:

Date/Time(IST)	Position (Lat.°N/ long. °E)	Maximum sustained surface wind speed (Kmph)	Category of cyclonic disturbance
05.01.19/0830	9.1/98.1	70-80 gusting to 90	Cyclonic Storm
05.01.19/1130	9.2/97.6	70-80 gusting to 90	Cyclonic Storm
05.01.19/1730	9.6/96.7	70-80 gusting to 90	Cyclonic Storm
05.01.19/2330	10.1/95.8	75-85 gusting to 95	Cyclonic Storm
06.01.19/0530	10.5/94.8	75-85 gusting to 95	Cyclonic Storm
06.01.19/1730	11.6/92.8	70-80 gusting to 90	Cyclonic Storm
07.01.19/0530	12.3/91.7	65-75 gusting to 85	Cyclonic Storm
07.01.19/1730	13.1/90.5	50-60 gusting to 70	Deep Depression
08.01.19/0530	14.2/90.2	50-60 gusting to 70	Deep Depression
08.01.19/1730	16.1/91.1	40-50 gusting to 60	Depression

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

Rainfall amount (mm): Heavy rain: 64.5 – 115.5, Very heavy rain: 115.6 – 204.4, Extremely heavy rain: 204.5 or more.

Warnings:

(i) Heavy rainfall warning

Rainfall at many places with heavy falls at isolated places very likely to commence over Andaman Islands from today, the 5th January evening. Intensity is very likely to increase with rainfall at most places with heavy to very heavy rainfall at a few places on 6th and at isolated places on 7th over Andaman Islands.

(ii) Wind warning

- Gale wind speed reaching 70-80 kmph gusting to 90 kmph is likely to prevail over Andaman Sea and along & off south Myanmar & Thailand coasts till today, the 5th evening.
- Gale wind speed reaching 70-80 kmph gusting to 90 kmph is likely to prevail over Andaman Islands, Andaman Sea and adjoining areas of eastcentral and southeast Bay of Bengal from the 5th evening to 7th morning. It is very likely to gradually decrease thereafter becoming 50-60 kmph gusting to 70 kmph over southeast Bay of Bengal, Andaman Islands and adjoining Andaman Sea & eastcentral Bay of Bengal by 8th morning and 40-50 kmph gusting to 60 kmph over eastcentral and adjoining southeast Bay of Bengal by 8th evening.
- Squally wind speed reaching 40-50 kmph gusting to 60 kmph is likely to over Nicobar Islands till 6th.

(iii) Sea condition

- The sea condition will be high over Andaman Sea along and off south Myanmar and Thailand coast till 5th evening.
- The sea condition will be high over Andaman Islands, Andaman Sea and adjoining areas of eastcentral and southeast Bay of Bengal from the evening of 5th till the morning of 7th. Thereafter, it will become very rough over southeast Bay of Bengal, Andaman Islands and adjoining Andaman Sea and eastcentral Bay of Bengal by 8th morning and rough over eastcentral and adjoining southeast Bay of Bengal by 8th evening.
- The sea condition will be very rough over Nicobar Islands till 6th.

(iv) Storm Surge Warning

Storm surge of height of about 0.5 m above the astronomical tides likely to inundate the low lying areas of Andaman Islands at the time of landfall.

(v) Damage Expected over Andaman Islands:

Damage to thatched huts, minor damage to power and communication lines due to breaking of branches. Major damage to Kutcha and damage to Pucca roads. Uprooting of small trees and some damage to paddy crops, banana, papaya trees and orchards. Sea water inundation in low lying areas after erosion of Kutcha embankments.

(vi) Action suggested

- People in Andaman Islands are advised to remain in safe places.
- Total suspension of fishing operation over Andaman Sea and adjoining southeast and eastcentral Bay of Bengal during 5th-7th January and over eastcentral & adjoining southeast Bay of Bengal on 8th.
- Fishermen are advised not to venture into Andaman Sea and adjoining southeast and eastcentral Bay of Bengal during the same period.

The next bulletin will be issued at 1430 hrs IST of 05th January, 2019.

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

Copy to: CRS, Pune/ ACWC Kolkata/ Chennai/ CWC Bhubaneswar/CWC Visakhapatnam/ MO Port Blair

Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
Rainfall amount (mm): Heavy rain: 64.5 – 115.5, Very heavy rain: 115.6 – 204.4, Extremely heavy rain: 204.5 or more.

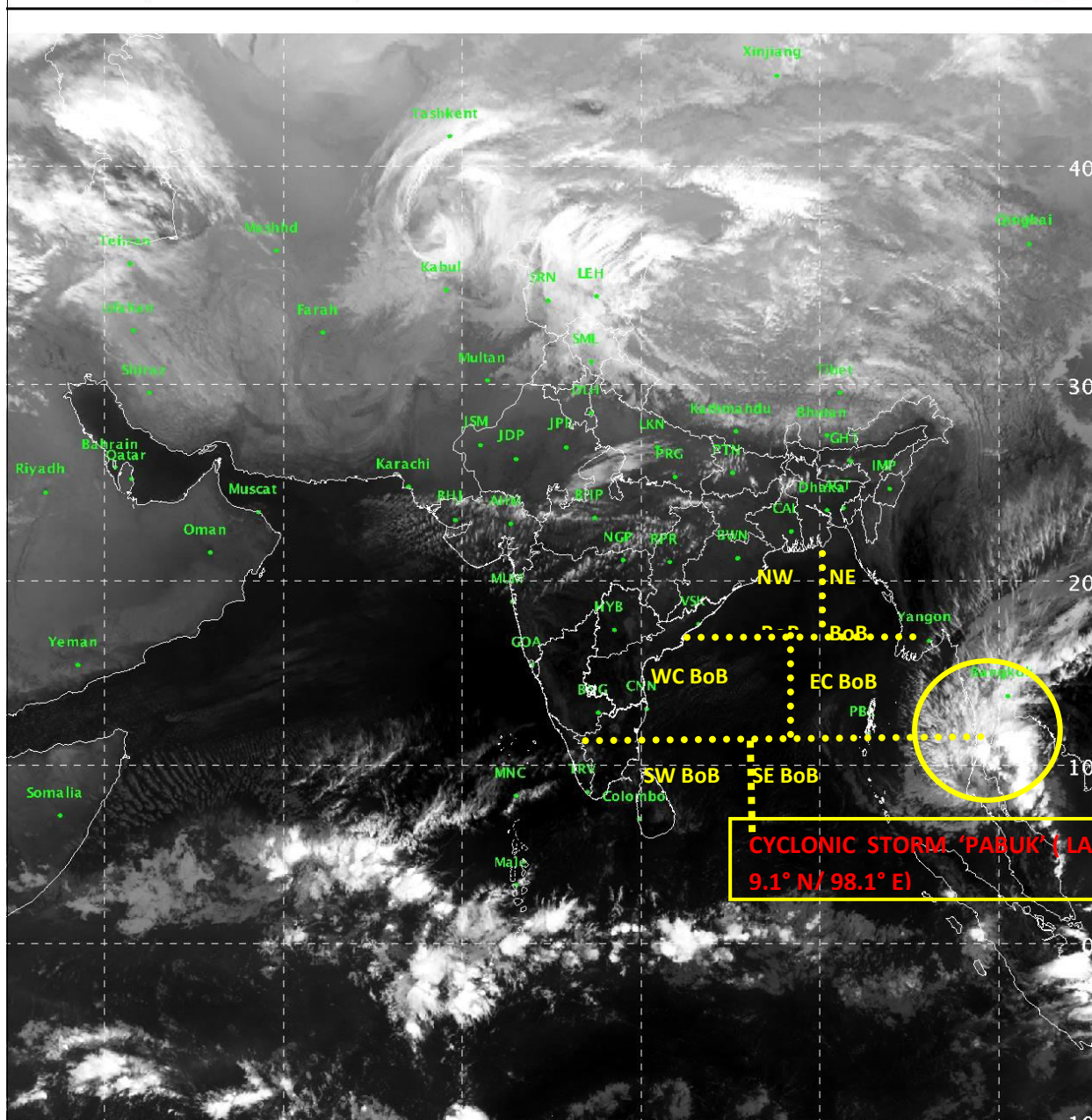
SAT :INSAT-3D IMG

IMG_TIR1 10.8 um

L1C Mercator (LINEAR STRETCH: 1.0%)

05-01-2019/03:30 GMT

05-01-2019/09:00 IST



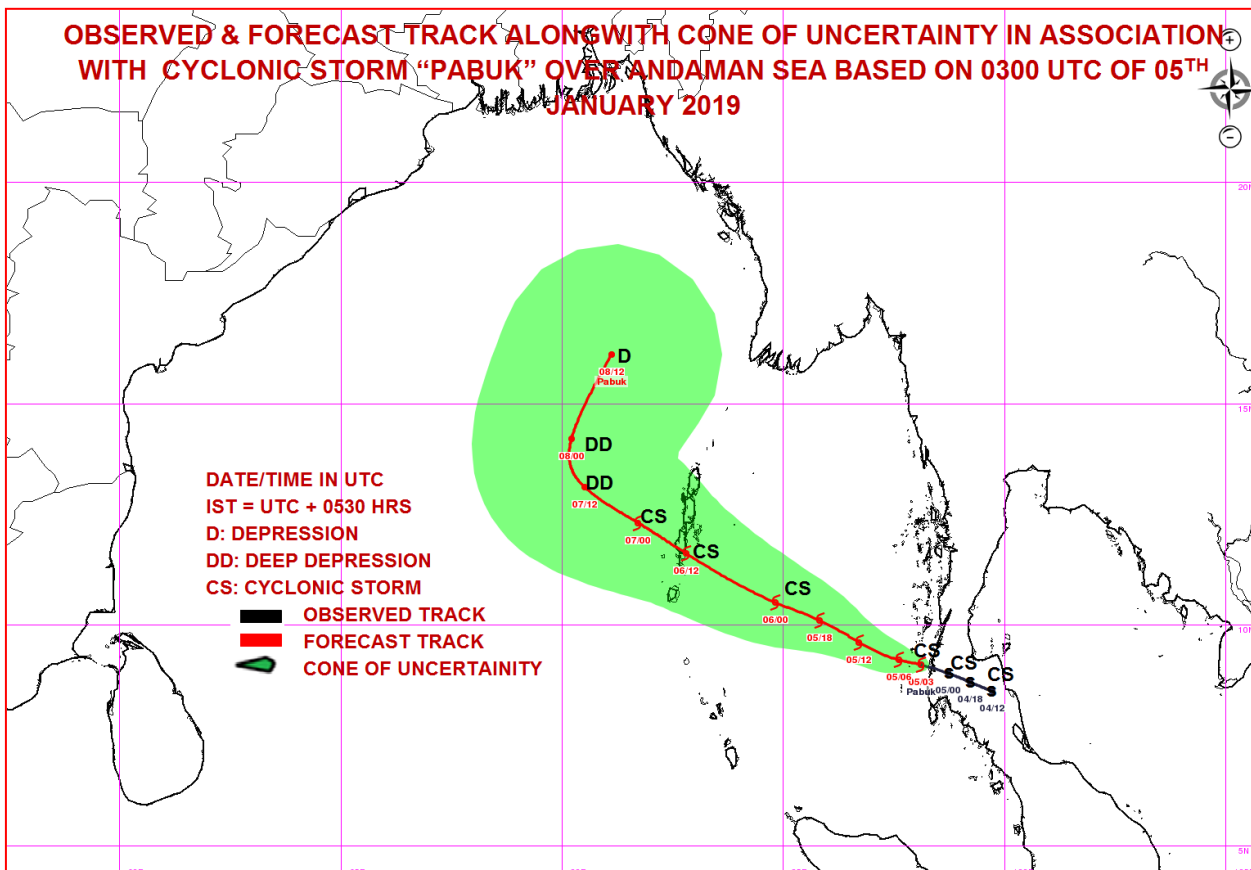
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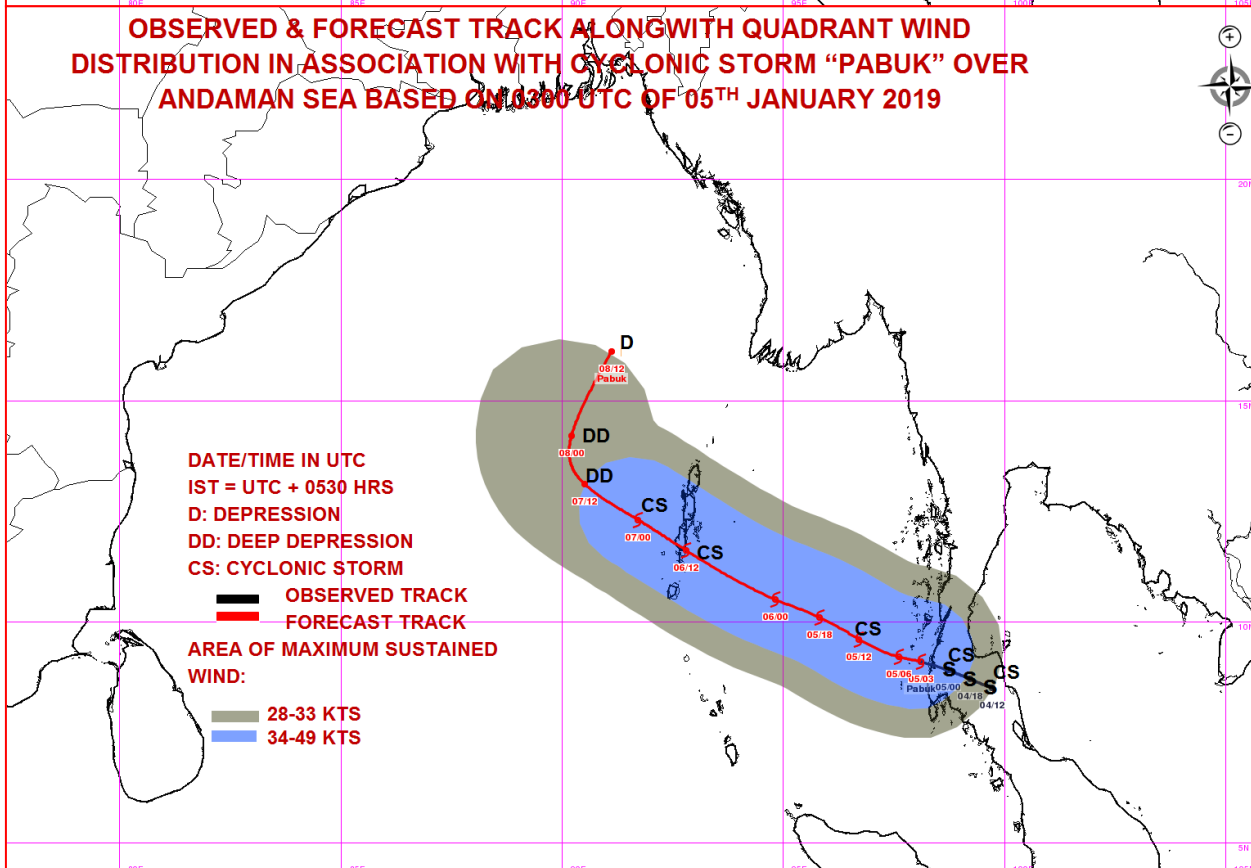
IMD/Delhi

Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
Rainfall amount (mm): Heavy rain: 64.5 – 115.5, Very heavy rain: 115.6 – 204.4, Extremely heavy rain: 204.5 or more.

OBSERVED & FORECAST TRACK ALONGWITH CONE OF UNCERTAINTY IN ASSOCIATION WITH CYCLONIC STORM "PABUK" OVER ANDAMAN SEA BASED ON 0300 UTC OF 05TH JANUARY 2019



OBSERVED & FORECAST TRACK ALONGWITH QUADRANT WIND DISTRIBUTION IN ASSOCIATION WITH CYCLONIC STORM "PABUK" OVER ANDAMAN SEA BASED ON 0300 UTC OF 05TH JANUARY 2019



Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
Rainfall amount (mm): Heavy rain: 64.5 – 115.5, Very heavy rain: 115.6 – 204.4, Extremely heavy rain: 204.5 or more.



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

BULLETIN NO. : 09 (BOB/01/2019)

TIME OF ISSUE: 1430 HOURS IST

DATED: 05.01.2019

FROM: INDIA METEOROLOGICAL DEPARTMENT (FAX NO. 24643965/24699216/24623220)

TO: CONTROL ROOM, NDM, MINISTRY OF HOME AFFAIRS (FAX.NO. 23093750)

CONTROL ROOM NDMA (FAX.NO. 26701729)

CABINET SECRETARIAT (FAX.NO.23012284, 23018638)

PS TO HON'BLE MINISTER FOR S & T AND EARTH SCIENCES (FAX NO.23316745)

SECRETARY, MOES, (FAX NO. 24629777)

H.Q. (INTEGRATED DEFENCE STAFF AND CDS) (FAX NO. 23005137/23005147)

DIRECTOR GENERAL, DOORDARSHAN (23385843)

DIRECTOR GENERAL, AIR (23421105, 23421219)

PIB MOES (FAX NO. 23389042)

UNI (FAX NO. 23355841)

D.G. NATIONAL DISASTER RESPONSE FORCE (NDRF) (FAX NO. 26105912)

DIRECTOR, PUNCTUALITY, INDIAN RAILWAYS (FAX NO. 23388503)

CHIEF SECRETARY, GOVT. OF ODISHA (FAX NO. 0674 -2536660)

CHIEF SECRETARY, ANDHRA PRADESH (FAX NO. 0863-2441029)

CHIEF SECRETARY, TAMIL NADU (FAX NO. 044-25672304)

CHIEF SECRETARY, ANDAMAN & NICOBAR ISLANDS (FAX NO. 03192- 232656)

CHIEF SECRETARY, WEST BENGAL (FAX NO. 033-22144328)

CHIEF SECRETARY, PUDUCHERRY (FAX NO. 0413-2337575)

Sub: Cyclonic storm "PABUK" over Andaman Sea & neighbourhood- Cyclone warning for Andaman Islands "ORANGE MESSAGE"

The cyclonic storm "PABUK" over Andaman Sea & neighbourhood moved further west-northwestwards with a speed of 21 kmph in past 06 hours. It lay centered at 1130 hours IST of today, the 05th January, 2019 over Andaman Sea & neighbourhood near latitude 9.3°N and longitude 97.7°E, about 590 km east-southeast of Port Blair. It is very likely to move west-northwestwards for some more time. Thereafter, it is very likely to move northwestwards and cross Andaman Islands around evening of 06th January as a cyclonic storm with a wind speed of 70-80 kmph gusting to 90 kmph. Thereafter, it is very likely to move north-northwestwards and then recurve northeastwards towards Myanmar coast and weaken gradually during 7th-8th January, 2019.

Forecast track and intensity are given in the following table:

Date/Time(IST)	Position (Lat.°N/ long. °E)	Maximum sustained surface wind speed (Kmph)	Category of cyclonic disturbance
05.01.19/1130	9.3/97.6	70-80 gusting to 90	Cyclonic Storm
05.01.19/1730	9.7/96.7	70-80 gusting to 90	Cyclonic Storm
05.01.19/2330	10.1/95.8	75-85 gusting to 95	Cyclonic Storm
06.01.19/0530	10.5/94.8	75-85 gusting to 95	Cyclonic Storm
06.01.19/1130	11.0/93.8	70-80 gusting to 90	Cyclonic Storm
06.01.19/2330	11.9/92.3	70-80 gusting to 90	Cyclonic Storm
07.01.19/1130	12.7/91.1	65-75 gusting to 85	Cyclonic Storm
07.01.19/2330	13.6/90.3	55-65 gusting to 75	Deep Depression
08.01.19/1130	15.1/90.7	45-55 gusting to 65	Depression
08.01.19/2330	17.0/91.7	30-40 gusting to 50	Well Marked Low

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

Rainfall amount (mm): Heavy rain: 64.5 – 115.5, Very heavy rain: 115.6 – 204.4, Extremely heavy rain: 204.5 or more.

Warnings:

(i) Heavy rainfall warning

Rainfall at many places with heavy falls at isolated places very likely to commence over Andaman Islands from today, the 5th January evening. Intensity is very likely to increase with rainfall at most places with heavy to very heavy rainfall at a few places on 6th and at isolated places on 7th over Andaman Islands.

(ii) Wind warning

- Gale wind speed reaching 70-80 kmph gusting to 90 kmph is likely to prevail over Andaman Sea and along & off south Myanmar & Thailand coasts till today, the 5th evening.
- Gale wind speed reaching 70-80 kmph gusting to 90 kmph is likely to prevail over Andaman Islands, Andaman Sea and adjoining areas of eastcentral and southeast Bay of Bengal from the 5th evening to 7th morning. It is very likely to gradually decrease thereafter becoming 50-60 kmph gusting to 70 kmph over southeast Bay of Bengal, Andaman Islands and adjoining Andaman Sea & eastcentral Bay of Bengal by 8th morning and 40-50 kmph gusting to 60 kmph over eastcentral and adjoining southeast Bay of Bengal by 8th evening.
- Squally wind speed reaching 40-50 kmph gusting to 60 kmph is likely to over Nicobar Islands till 6th.

(iii) Sea condition

- The sea condition will be high over Andaman Sea along and off south Myanmar and Thailand coast till 5th evening.
- The sea condition will be high over Andaman Islands, Andaman Sea and adjoining areas of eastcentral and southeast Bay of Bengal from the evening of 5th till the morning of 7th. Thereafter, it will become very rough over southeast Bay of Bengal, Andaman Islands and adjoining Andaman Sea and eastcentral Bay of Bengal by 8th morning and rough over eastcentral and adjoining southeast Bay of Bengal by 8th evening.
- The sea condition will be very rough over Nicobar Islands till 6th.

(iv) Storm Surge Warning

Storm surge of height of about 0.5 m above the astronomical tides likely to inundate the low lying areas of Andaman Islands at the time of landfall.

(v) Damage Expected over Andaman Islands:

Damage to thatched huts, minor damage to power and communication lines due to breaking of branches. Major damage to Kutcha and damage to Pucca roads. Uprooting of small trees and some damage to paddy crops, banana, papaya trees and orchards. Sea water inundation in low lying areas after erosion of Kutcha embankments.

(vi) Action suggested

- People in Andaman Islands are advised to remain in safe places.
- Total suspension of fishing operation over Andaman Sea and adjoining southeast and eastcentral Bay of Bengal during 5th-7th January and over eastcentral & adjoining southeast Bay of Bengal on 8th.
- Fishermen are advised not to venture into Andaman Sea and adjoining southeast and eastcentral Bay of Bengal during the same period.

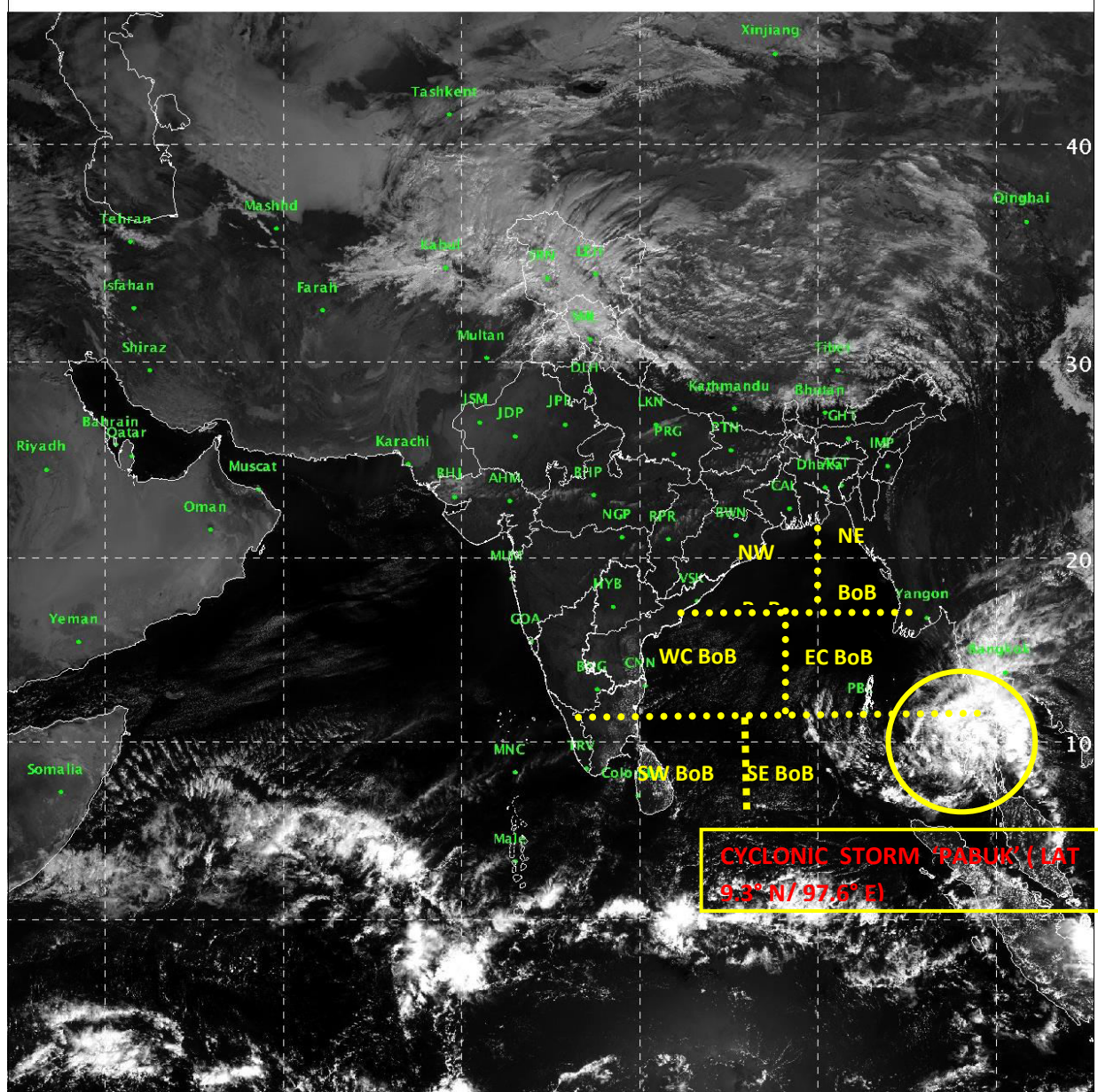
The next bulletin will be issued at 1730 hrs IST of 05th January, 2019.

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

Copy to: CRS, Pune/ ACWC Kolkata/ Chennai/ CWC Bhubaneswar/CWC Visakhapatnam/ MO Port Blair

Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
Rainfall amount (mm): Heavy rain: 64.5 – 115.5, Very heavy rain: 115.6 – 204.4, Extremely heavy rain: 204.5 or more.

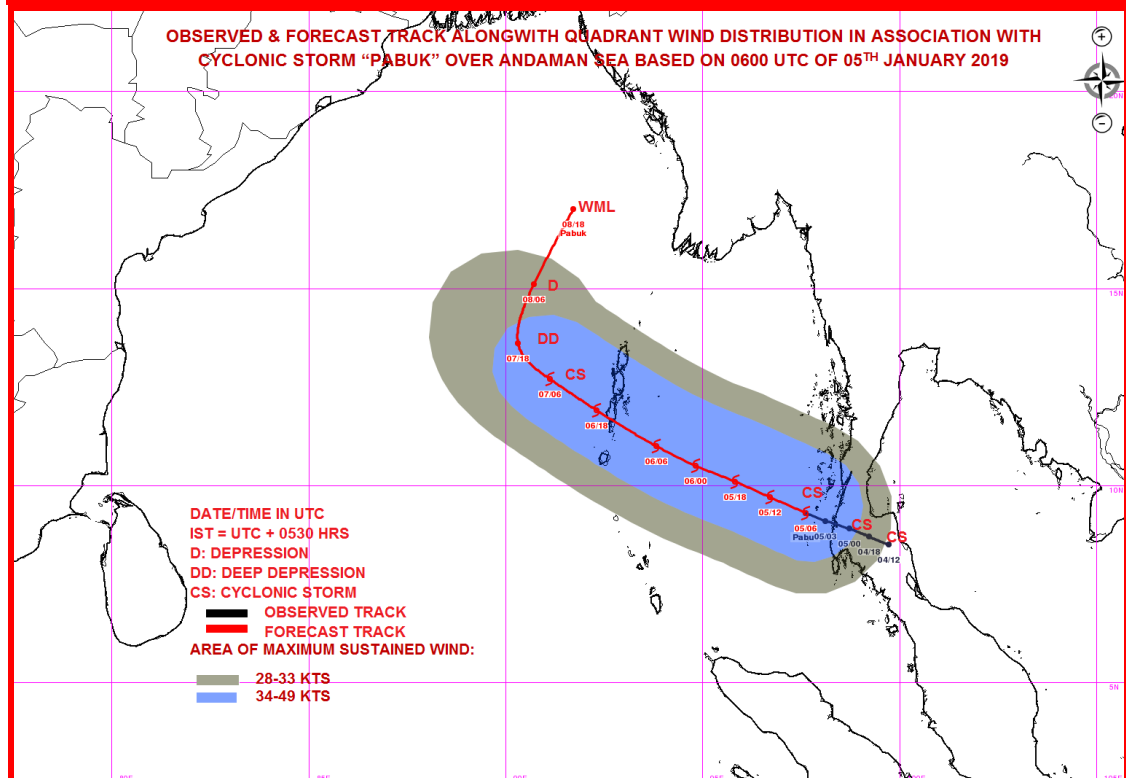
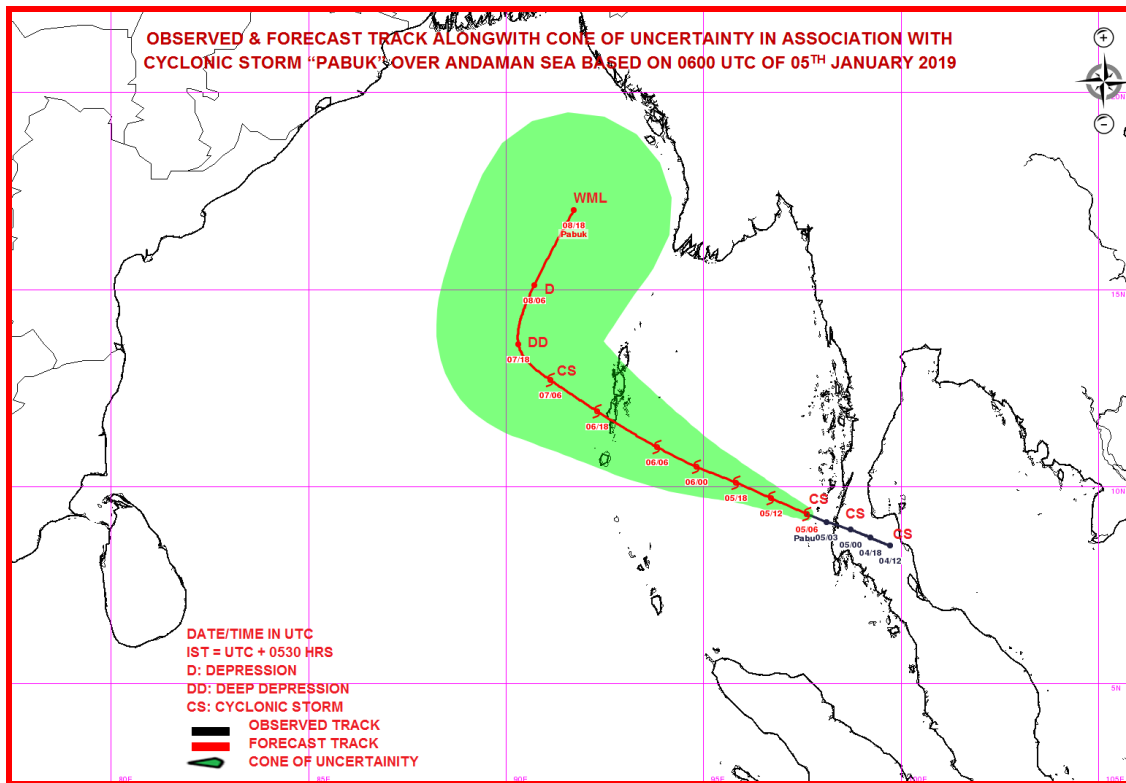
05-01-2019/11:30 IST



356

IMD/Delhi

Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
Rainfall amount (mm): Heavy rain: 64.5 – 115.5, Very heavy rain: 115.6 – 204.4, Extremely heavy rain: 204.5 or more.



Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
Rainfall amount (mm): Heavy rain: 64.5 – 115.5, Very heavy rain: 115.6 – 204.4, Extremely heavy rain: 204.5 or more.



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

BULLETIN NO. : 10 (BOB/01/2019)

TIME OF ISSUE: 1700 HOURS IST

DATED: 05.01.2019

FROM: INDIA METEOROLOGICAL DEPARTMENT (FAX NO. 24643965/24699216/24623220)

TO: CONTROL ROOM, NDM, MINISTRY OF HOME AFFAIRS (FAX.NO. 23093750)

CONTROL ROOM NDMA (FAX.NO. 26701729)

CABINET SECRETARIAT (FAX.NO.23012284, 23018638)

PS TO HON'BLE MINISTER FOR S & T AND EARTH SCIENCES (FAX NO.23316745)

SECRETARY, MOES, (FAX NO. 24629777)

H.Q. (INTEGRATED DEFENCE STAFF AND CDS) (FAX NO. 23005137/23005147)

DIRECTOR GENERAL, DOORDARSHAN (23385843)

DIRECTOR GENERAL, AIR (23421105, 23421219)

PIB MOES (FAX NO. 23389042)

UNI (FAX NO. 23355841)

D.G. NATIONAL DISASTER RESPONSE FORCE (NDRF) (FAX NO. 26105912)

DIRECTOR, PUNCTUALITY, INDIAN RAILWAYS (FAX NO. 23388503)

CHIEF SECRETARY, GOVT. OF ODISHA (FAX NO. 0674 -2536660)

CHIEF SECRETARY, ANDHRA PRADESH (FAX NO. 0863-2441029)

CHIEF SECRETARY, TAMIL NADU (FAX NO. 044-25672304)

CHIEF SECRETARY, ANDAMAN & NICOBAR ISLANDS (FAX NO. 03192- 232656)

CHIEF SECRETARY, WEST BENGAL (FAX NO. 033-22144328)

CHIEF SECRETARY, PUDUCHERRY (FAX NO. 0413-2337575)

Sub: Cyclonic Storm 'PABUK' over Andaman Sea & neighbourhood- Cyclone warning for Andaman Islands "ORANGE MESSAGE"

The cyclonic storm 'PABUK' over Andaman Sea & neighbourhood moved further west-northwestwards with a speed of 13 kmph in past 06 hours. It lay centered at 1430 hours IST of today, the 05th January, 2019 over Andaman Sea & neighbourhood near latitude 9.5°N and longitude 97.3°E, about 550 km east-southeast of Port Blair. It is very likely to move west-northwestwards for some more time. Thereafter, it is very likely to move northwestwards and cross Andaman Islands around evening of 06th January as a Cyclonic Storm with a wind speed of 70-80 kmph gusting to 90 kmph. Thereafter, it is very likely to move north-northwestwards and then recurve northeastwards towards Myanmar coast and weaken gradually during 07th-08th January, 2019.

Forecast track and intensity are given in the following table:

Date/Time(IST)	Position (Lat.°N/ long. °E)	Maximum sustained surface wind speed (Kmph)	Category of cyclonic disturbance
05.01.19/1430	9.5/97.3	70-80 gusting to 90	Cyclonic Storm
05.01.19/1730	9.7/96.7	70-80 gusting to 90	Cyclonic Storm
05.01.19/2330	10.1/95.8	75-85 gusting to 95	Cyclonic Storm
06.01.19/0530	10.5/94.8	75-85 gusting to 95	Cyclonic Storm
06.01.19/1130	11.0/93.8	70-80 gusting to 90	Cyclonic Storm
06.01.19/2330	11.9/92.3	70-80 gusting to 90	Cyclonic Storm
07.01.19/1130	12.7/91.1	65-75 gusting to 85	Cyclonic Storm
07.01.19/2330	13.6/90.3	55-65 gusting to 75	Deep Depression
08.01.19/1130	15.1/90.7	45-55 gusting to 65	Depression
08.01.19/2330	17.0/91.7	30-40 gusting to 50	Well Marked Low

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

Rainfall amount (mm): Heavy rain: 64.5 – 115.5, Very heavy rain: 115.6 – 204.4, Extremely heavy rain: 204.5 or more.

Warnings:

(i) Heavy rainfall warning

Rainfall at many places with heavy falls at isolated places very likely over Andaman Islands on today, the 5th January. Its intensity is very likely to increase with rainfall at most places with heavy to very heavy rainfall at a few places on 6th and at isolated places on 7th over Andaman Islands.

(ii) Wind warning

- Gale wind speed reaching 70-80 kmph gusting to 90 kmph is likely to prevail over Andaman Islands, Andaman Sea and adjoining areas of eastcentral and southeast Bay of Bengal till 7th morning. It is very likely to gradually decrease thereafter becoming 50-60 kmph gusting to 70 kmph over southeast Bay of Bengal, Andaman Islands and adjoining Andaman Sea & eastcentral Bay of Bengal by 8th morning and 40-50 kmph gusting to 60 kmph over eastcentral and adjoining southeast Bay of Bengal by 8th evening.
- Squally wind speed reaching 40-50 kmph gusting to 60 kmph is likely to over Nicobar Islands till 6th.

(iii) Sea condition

- The sea condition will be high over Andaman Islands, Andaman Sea and adjoining areas of eastcentral and southeast Bay of Bengal from the evening of 5th till the morning of 7th. Thereafter, it will become very rough over southeast Bay of Bengal, Andaman Islands and adjoining Andaman Sea and eastcentral Bay of Bengal by 8th morning and rough over eastcentral and adjoining southeast Bay of Bengal by 8th evening.
- The sea condition will be very rough over Nicobar Islands till 6th.

(iv) Storm Surge Warning

Storm surge of height of about 0.5 m above the astronomical tides likely to inundate the low lying areas of Andaman Islands at the time of landfall.

(v) Damage Expected over Andaman Islands:

Damage to thatched huts, minor damage to power and communication lines due to breaking of branches. Major damage to Kutcha and damage to Pucca roads. Uprooting of small trees and some damage to paddy crops, banana, papaya trees and orchards. Sea water inundation in low lying areas after erosion of Kutcha embankments.

(vi) Action suggested

- People in Andaman Islands are advised to remain in safe places.
- Total suspension of fishing operation over Andaman Sea and adjoining southeast and eastcentral Bay of Bengal till 7th January and over eastcentral & adjoining southeast Bay of Bengal on 8th.
- Fishermen are advised not to venture into Andaman Sea and adjoining southeast and eastcentral Bay of Bengal during the same period.

The next bulletin will be issued at 2030 hrs IST of 05th January, 2019.

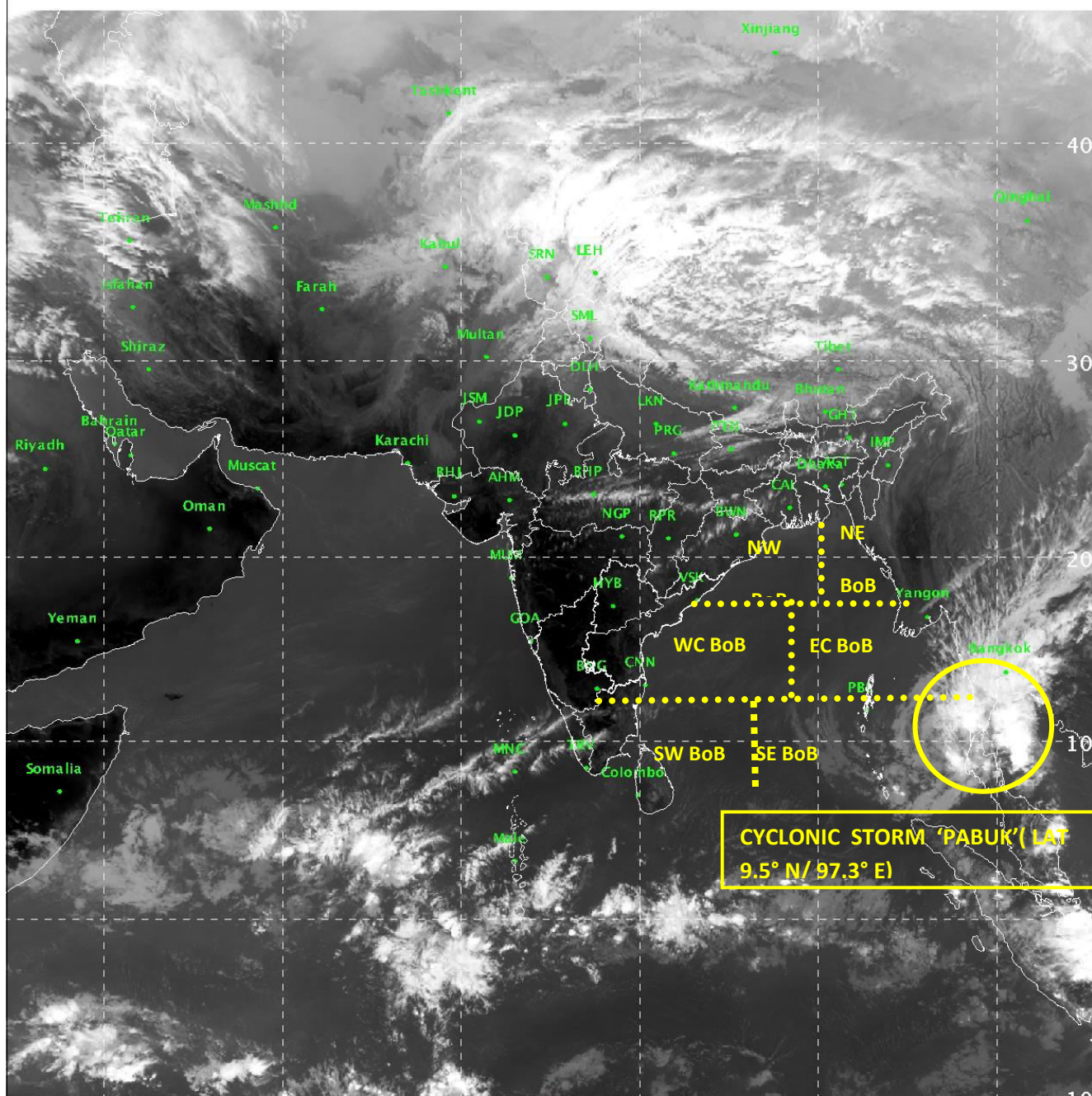
(Naresh Kumar)
Scientist-E, RSMC, New Delhi

Copy to: CRS, Pune/ ACWC Kolkata/ Chennai/ CWC Bhubaneswar/CWC Visakhapatnam/ MO Port Blair

Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
Rainfall amount (mm): Heavy rain: 64.5 – 115.5, Very heavy rain: 115.6 – 204.4, Extremely heavy rain: 204.5 or more.

SAT :INSAT-3D IMG
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05-01-2019/09:00 GMT
 05-01-2019/14:30 IST

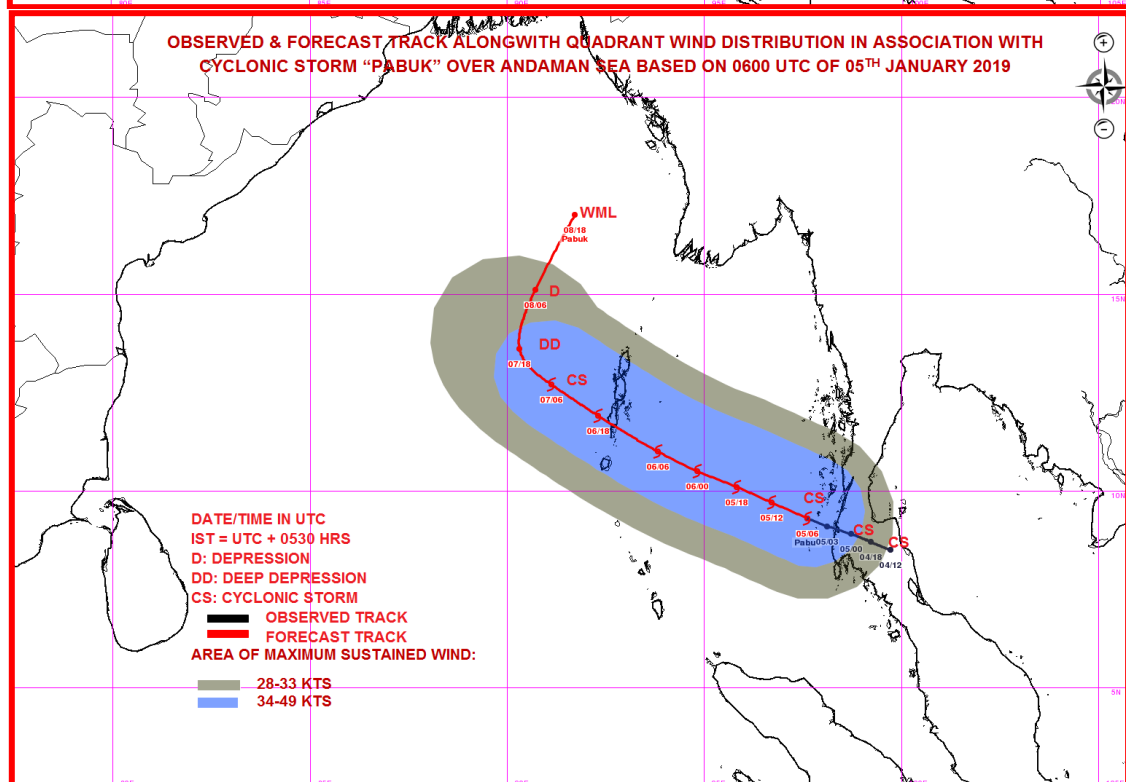
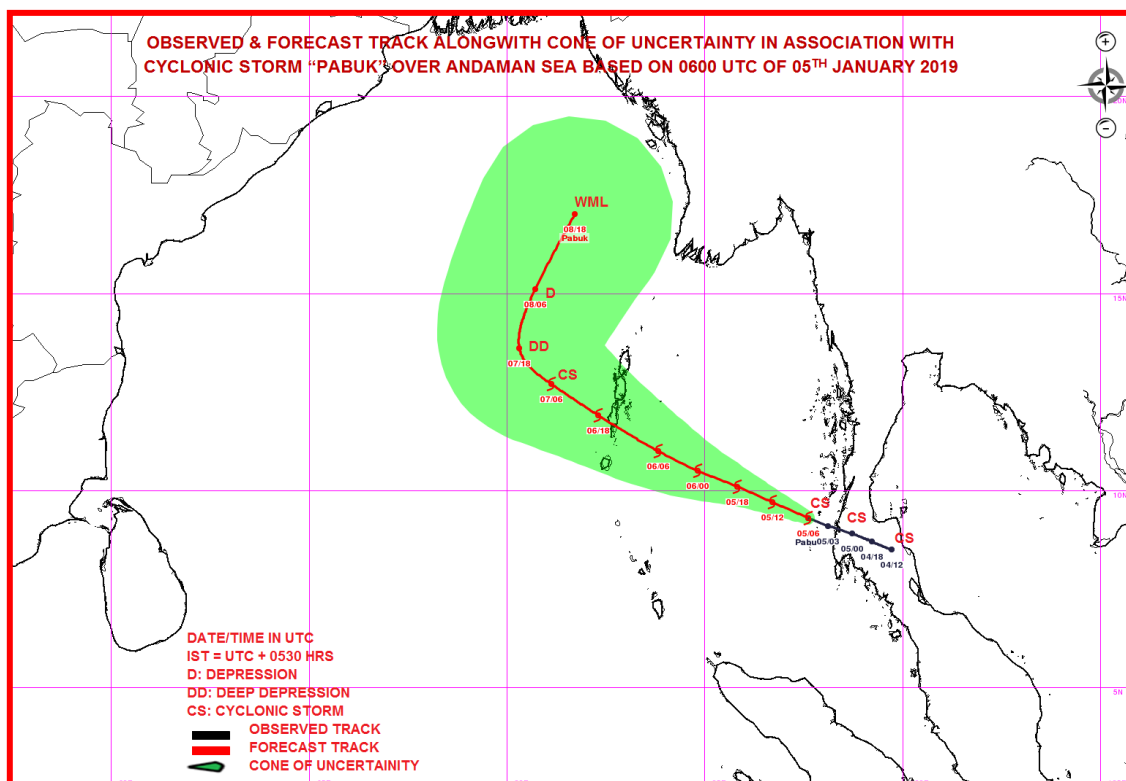


CYCLONIC STORM 'PABUK' (LAT 9.5° N/ 97.3° E)



IMD/Delhi

Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
 Rainfall amount (mm): Heavy rain: 64.5 – 115.5, Very heavy rain: 115.6 – 204.4, Extremely heavy rain: 204.5 or more.



Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
Rainfall amount (mm): Heavy rain: 64.5 – 115.5, Very heavy rain: 115.6 – 204.4, Extremely heavy rain: 204.5 or more.



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

BULLETIN NO. : 11 (BOB/01/2019)

TIME OF ISSUE: 2030 HOURS IST

DATED: 05.01.2019

FROM: INDIA METEOROLOGICAL DEPARTMENT (FAX NO. 24643965/24699216/24623220)

TO: CONTROL ROOM, NDM, MINISTRY OF HOME AFFAIRS (FAX.NO. 23093750)

CONTROL ROOM NDMA (FAX.NO. 26701729)

CABINET SECRETARIAT (FAX.NO.23012284, 23018638)

PS TO HON'BLE MINISTER FOR S & T AND EARTH SCIENCES (FAX NO.23316745)

SECRETARY, MOES, (FAX NO. 24629777)

H.Q. (INTEGRATED DEFENCE STAFF AND CDS) (FAX NO. 23005137/23005147)

DIRECTOR GENERAL, DOORDARSHAN (23385843)

DIRECTOR GENERAL, AIR (23421105, 23421219)

PIB MOES (FAX NO. 23389042)

UNI (FAX NO. 23355841)

D.G. NATIONAL DISASTER RESPONSE FORCE (NDRF) (FAX NO. 26105912)

DIRECTOR, PUNCTUALITY, INDIAN RAILWAYS (FAX NO. 23388503)

CHIEF SECRETARY, GOVT. OF ODISHA (FAX NO. 0674 -2536660)

CHIEF SECRETARY, ANDHRA PRADESH (FAX NO. 0863-2441029)

CHIEF SECRETARY, TAMIL NADU (FAX NO. 044-25672304)

CHIEF SECRETARY, ANDAMAN & NICOBAR ISLANDS (FAX NO. 03192- 232656)

CHIEF SECRETARY, WEST BENGAL (FAX NO. 033-22144328)

CHIEF SECRETARY, PUDUCHERRY (FAX NO. 0413-2337575)

**Sub: Cyclonic Storm 'PABUK' over Andaman Sea & neighbourhood :
Cyclone warning for Andaman Islands 'ORANGE MESSAGE'**

The cyclonic storm '**PABUK**' over Andaman Sea & neighbourhood moved northwestwards with a speed of 14 kmph during past 06 hours. It lay centered at 1730 hours IST of today, the 05th January, 2019 over Andaman Sea & neighbourhood near latitude 9.8°N and longitude 97.1°E, about 520 km east-southeast of Port Blair. It is very likely to continue to move northwestwards for some more time and cross Andaman Islands around evening of 06th January as a Cyclonic Storm with a wind speed of 70-80 kmph gusting to 90 kmph. Thereafter, it is very likely to move north-northwestwards and then recurve northeastwards towards Myanmar coast and weaken gradually during 07th-08th January, 2019.

Forecast track and intensity are given in the following table:

Date/Time(IST)	Position (Lat.°N/ long.°E)	Maximum sustained surface wind speed (Kmph)	Category of cyclonic disturbance
05.01.19/1730	9.8/97.1	70-80 gusting to 90	Cyclonic Storm
05.01.19/2330	10.2/95.8	75-85 gusting to 95	Cyclonic Storm
06.01.19/0530	10.5/94.8	75-85 gusting to 95	Cyclonic Storm
06.01.19/1130	11.0/93.8	70-80 gusting to 90	Cyclonic Storm
06.01.19/1730	11.5/93.0	70-80 gusting to 90	Cyclonic Storm
07.01.19/0530	12.3/91.7	65-75 gusting to 85	Cyclonic Storm
07.01.19/1730	13.2/90.8	55-65 gusting to 75	Deep Depression
08.01.19/0530	14.3/90.5	45-55 gusting to 65	Depression
08.01.19/1730	16.0/91.2	30-40 gusting to 50	Well Marked Low

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

Rainfall amount (mm): Heavy rain: 64.5 – 115.5, Very heavy rain: 115.6 – 204.4, Extremely heavy rain: 204.5 or more.

Warnings:

(i) Heavy rainfall warning

Rainfall at many places with heavy falls at isolated places very likely over Andaman Islands on today, the 5th January. Its intensity is very likely to increase with rainfall at most places with heavy to very heavy rainfall at a few places on 6th and at isolated places on 7th over Andaman Islands.

(ii) Wind warning

- Gale wind speed reaching 70-80 kmph gusting to 90 kmph is likely to prevail over Andaman Islands, Andaman Sea and adjoining areas of eastcentral and southeast Bay of Bengal till 7th morning. It is very likely to gradually decrease thereafter becoming 50-60 kmph gusting to 70 kmph over southeast Bay of Bengal, Andaman Islands and adjoining Andaman Sea & eastcentral Bay of Bengal by 8th morning and 40-50 kmph gusting to 60 kmph over eastcentral and adjoining southeast Bay of Bengal by 8th evening.
- Squally wind speed reaching 40-50 kmph gusting to 60 kmph is likely to prevail over Nicobar Islands till 6th.

(iii) Sea condition

- The sea condition will be high over Andaman Islands, Andaman Sea and adjoining areas of eastcentral and southeast Bay of Bengal from the evening of 5th till the morning of 7th. Thereafter, it will become very rough over southeast Bay of Bengal, Andaman Islands and adjoining Andaman Sea and eastcentral Bay of Bengal by 8th morning and rough over eastcentral and adjoining southeast Bay of Bengal by 8th evening.
- The sea condition will be very rough over Nicobar Islands till 6th.

(iv) Storm Surge Warning

Storm surge of height of about 0.5 m above the astronomical tides likely to inundate the low lying areas of Andaman Islands at the time of landfall.

(v) Damage Expected over Andaman Islands:

Damage to thatched huts, minor damage to power and communication lines due to breaking of branches. Major damage to Kutcha and damage to Pucca roads. Uprooting of small trees and some damage to paddy crops, banana, papaya trees and orchards. Sea water inundation in low lying areas after erosion of Kutcha embankments.

(vi) Action suggested

- People in Andaman Islands are advised to remain in safe places.
- Total suspension of fishing operation over Andaman Sea and adjoining southeast and eastcentral Bay of Bengal till 7th January and over eastcentral & adjoining southeast Bay of Bengal on 8th.
- Fishermen are advised not to venture into Andaman Sea and adjoining southeast and eastcentral Bay of Bengal during the same period.

The next bulletin will be issued at 2330 hrs IST of 05th January, 2019.

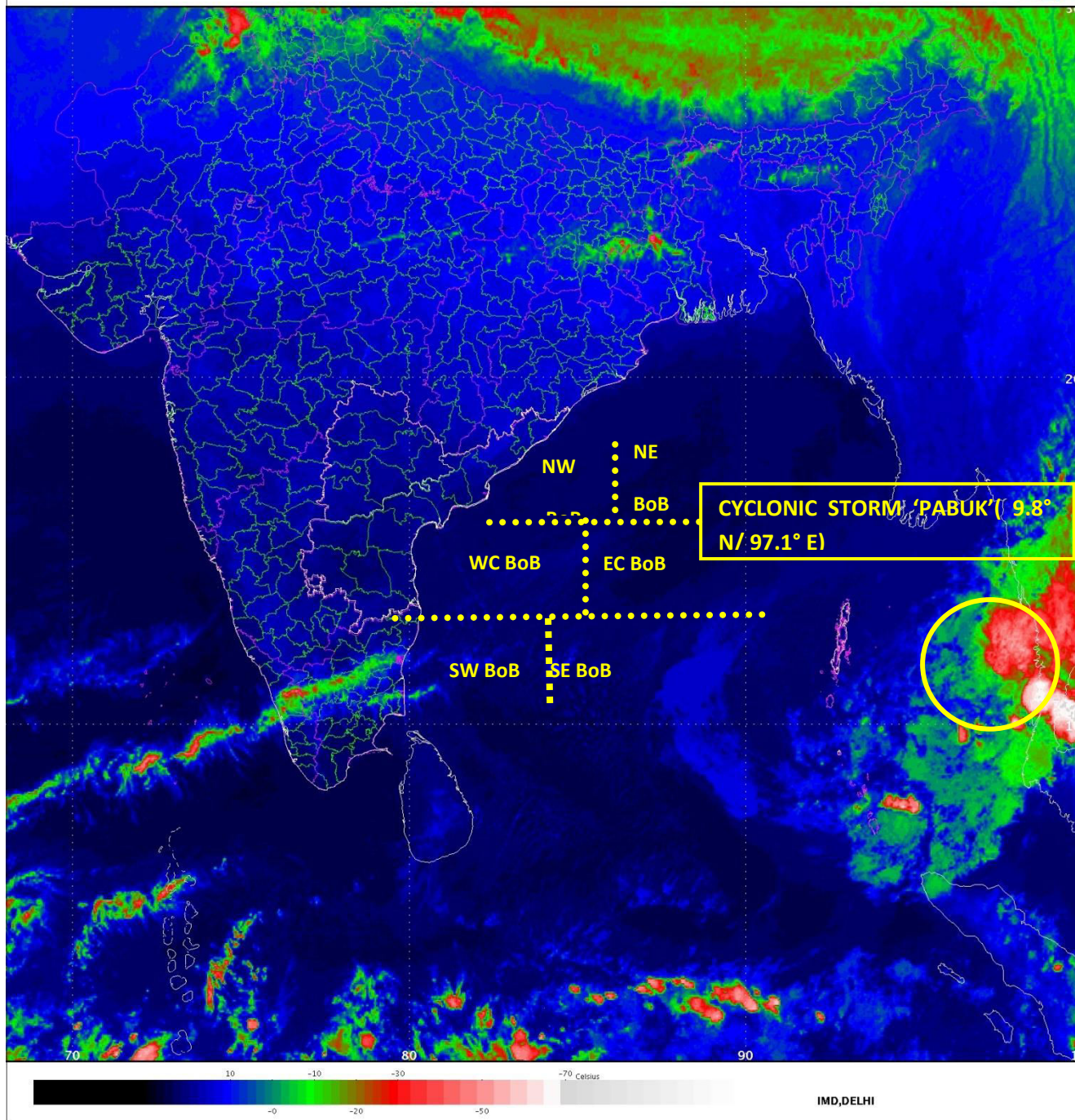
(Neetha K Gopal)
Scientist-E, RSMC, New Delhi

Copy to: CRS, Pune/ ACWC Kolkata/ Chennai/ CWC Bhubaneswar/CWC Visakhapatnam/ MO Port Blair

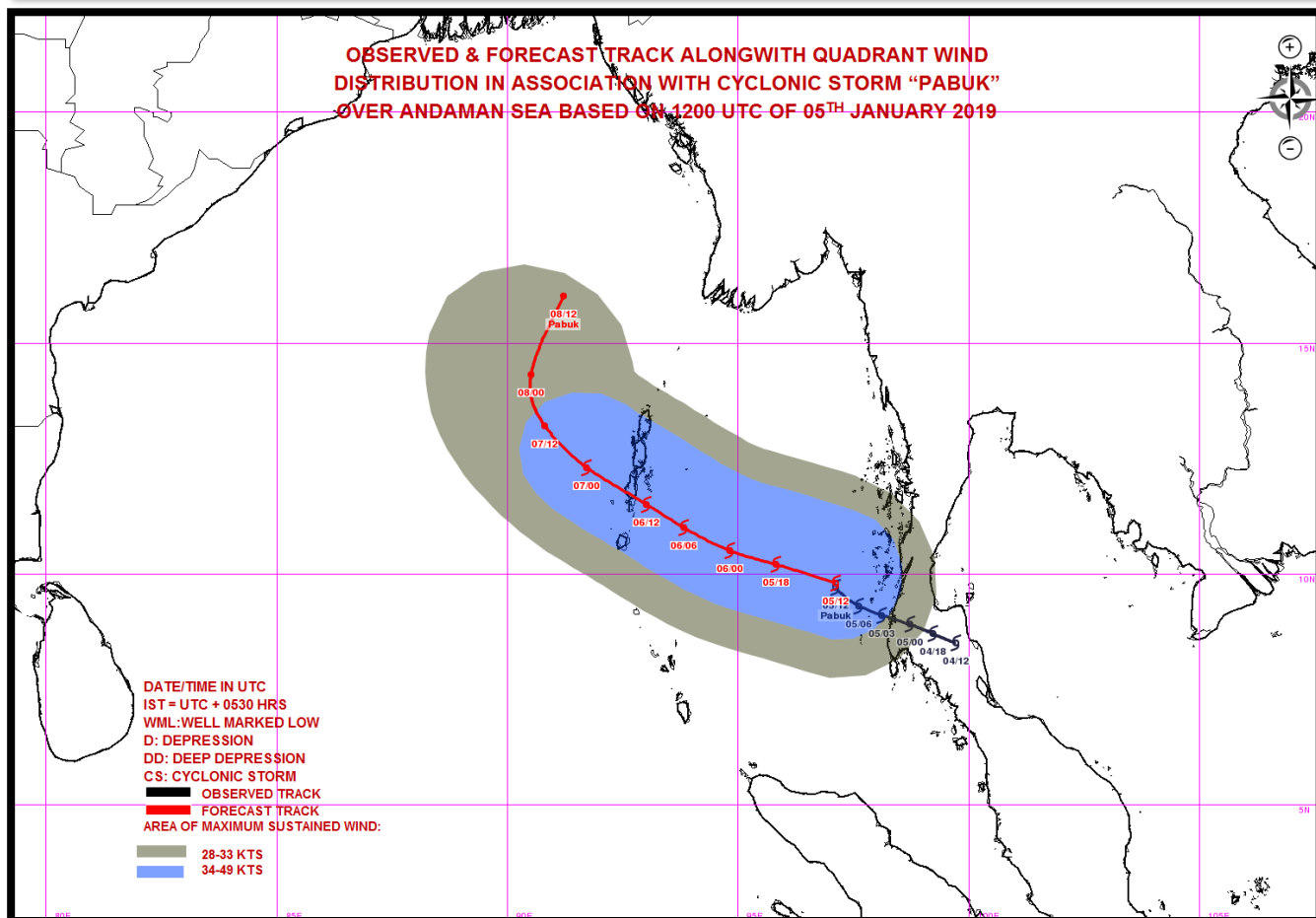
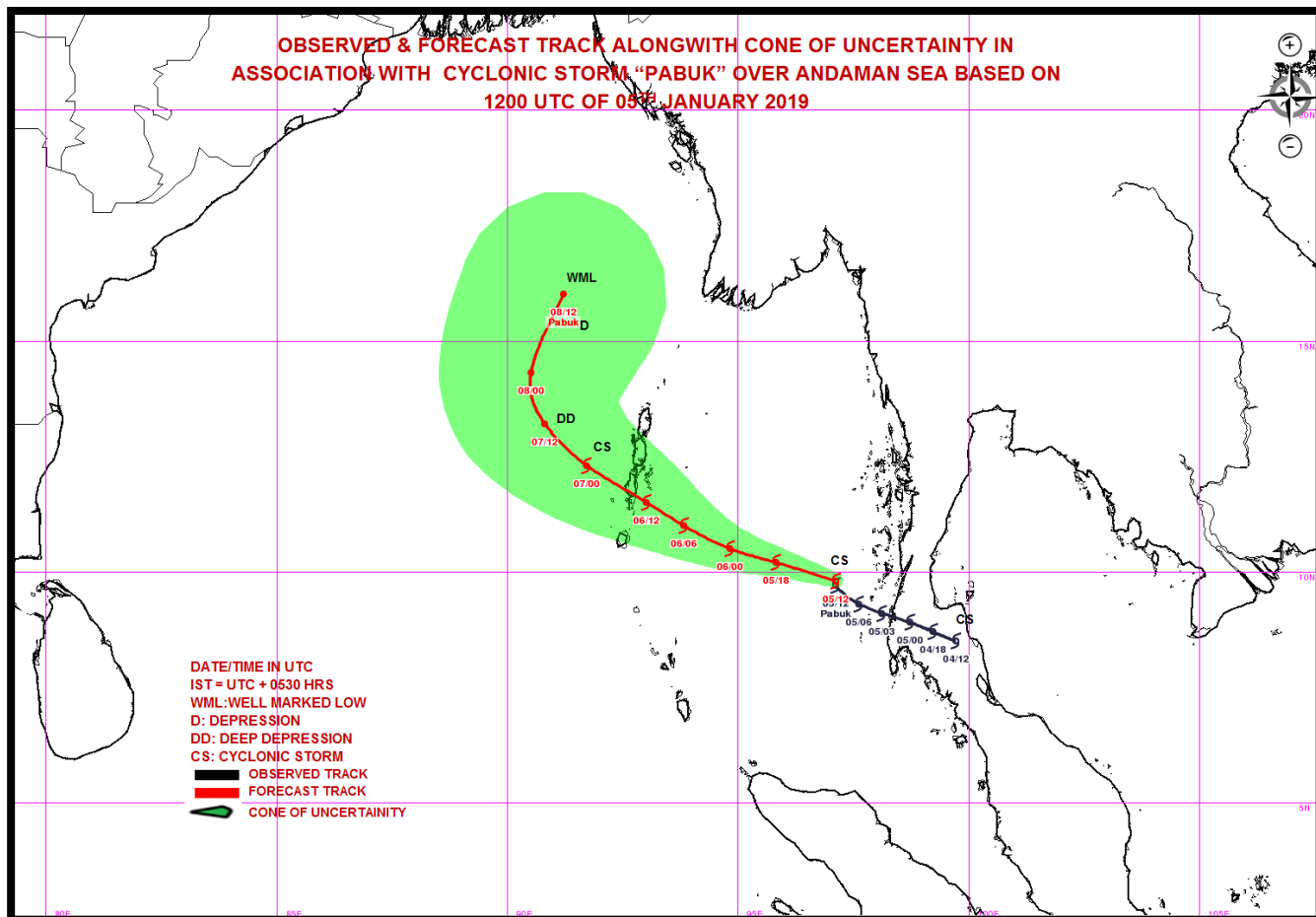
Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
Rainfall amount (mm): Heavy rain: 64.5 – 115.5, Very heavy rain: 115.6 – 204.4, Extremely heavy rain: 204.5 or more.

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

05-01-2019/13:30 GMT
 05-01-2019/19:00 IST



Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
 Rainfall amount (mm): Heavy rain: 64.5 – 115.5, Very heavy rain: 115.6 – 204.4, Extremely heavy rain: 204.5 or more.



Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
Rainfall amount (mm): Heavy rain: 64.5 – 115.5, Very heavy rain: 115.6 – 204.4, Extremely heavy rain: 204.5 or more.



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

BULLETIN NO. : 12 (BOB/01/2019)

TIME OF ISSUE: 2230 HOURS IST

DATED: 05.01.2019

FROM: INDIA METEOROLOGICAL DEPARTMENT (FAX NO. 24643965/24699216/24623220)

TO: CONTROL ROOM, NDM, MINISTRY OF HOME AFFAIRS (FAX.NO. 23093750)

CONTROL ROOM NDMA (FAX.NO. 26701729)

CABINET SECRETARIAT (FAX.NO.23012284, 23018638)

PS TO HON'BLE MINISTER FOR S & T AND EARTH SCIENCES (FAX NO.23316745)

SECRETARY, MOES, (FAX NO. 24629777)

H.Q. (INTEGRATED DEFENCE STAFF AND CDS) (FAX NO. 23005137/23005147)

DIRECTOR GENERAL, DOORDARSHAN (23385843)

DIRECTOR GENERAL, AIR (23421105, 23421219)

PIB MOES (FAX NO. 23389042)

UNI (FAX NO. 23355841)

D.G. NATIONAL DISASTER RESPONSE FORCE (NDRF) (FAX NO. 26105912)

DIRECTOR, PUNCTUALITY, INDIAN RAILWAYS (FAX NO. 23388503)

CHIEF SECRETARY, GOVT. OF ODISHA (FAX NO. 0674 -2536660)

CHIEF SECRETARY, ANDHRA PRADESH (FAX NO. 0863-2441029)

CHIEF SECRETARY, TAMIL NADU (FAX NO. 044-25672304)

CHIEF SECRETARY, ANDAMAN & NICOBAR ISLANDS (FAX NO. 03192- 232656)

CHIEF SECRETARY, WEST BENGAL (FAX NO. 033-22144328)

CHIEF SECRETARY, PUDUCHERRY (FAX NO. 0413-2337575)

**Sub: Cyclonic Storm 'PABUK' over Andaman Sea & neighbourhood :
Cyclone warning for Andaman Islands 'ORANGE MESSAGE'**

The cyclonic storm 'PABUK' over Andaman Sea & neighbourhood moved north-northwestwards with a speed of 14 kmph during past 06 hours. It lay centered at 2030 hours IST of today, the 05th January, 2019 over Andaman Sea & neighbourhood near latitude 10.1°N and longitude 96.8°E, about 480 km east-southeast of Port Blair. It is very likely to continue to move north-northwestwards for some more time and cross Andaman Islands around evening of 06th January as a Cyclonic Storm with a wind speed of 70-80 kmph gusting to 90 kmph. Thereafter, it is very likely to move north-northwestwards and then recurve northeastwards towards Myanmar coast and weaken gradually during 07th-08th January, 2019.

Forecast track and intensity are given in the following table:

Date/Time(IST)	Position (Lat.°N/ long.°E)	Maximum sustained surface wind speed (Kmph)	Category of cyclonic disturbance
05.01.19/2030	10.1/96.8	65-75 gusting to 85	Cyclonic Storm
05.01.19/2330	10.4/96.5	65-75 gusting to 85	Cyclonic Storm
06.01.19/0530	10.8/95.5	70-80 gusting to 90	Cyclonic Storm
06.01.19/1130	11.3/94.1	70-80 gusting to 90	Cyclonic Storm
06.01.19/1730	11.8/93.0	70-80 gusting to 90	Cyclonic Storm
07.01.19/0530	12.5/91.7	65-75 gusting to 85	Cyclonic Storm
07.01.19/1730	13.5/90.8	55-65 gusting to 75	Deep Depression
08.01.19/0530	14.6/90.5	45-55 gusting to 65	Depression
08.01.19/1730	16.1/91.2	30-40 gusting to 50	Well Marked Low

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

Rainfall amount (mm): Heavy rain: 64.5 – 115.5, Very heavy rain: 115.6 – 204.4, Extremely heavy rain: 204.5 or more.

Warnings:

(i) Heavy rainfall warning

Rainfall at many places with heavy falls at isolated places very likely over Andaman Islands on today, the 5th January. Its intensity is very likely to increase with rainfall at most places with heavy to very heavy rainfall at a few places on 6th and at isolated places on 7th over Andaman Islands.

(ii) Wind warning

- Gale wind speed reaching 70-80 kmph gusting to 90 kmph is likely to prevail over Andaman Islands, Andaman Sea and adjoining areas of eastcentral and southeast Bay of Bengal till 7th morning. It is very likely to gradually decrease thereafter becoming 50-60 kmph gusting to 70 kmph over southeast Bay of Bengal, Andaman Islands and adjoining Andaman Sea & eastcentral Bay of Bengal by 8th morning and 40-50 kmph gusting to 60 kmph over eastcentral and adjoining southeast Bay of Bengal by 8th evening.
- Squally wind speed reaching 40-50 kmph gusting to 60 kmph is likely to prevail over Nicobar Islands till 6th.

(iii) Sea condition

- The sea condition will be high over Andaman Islands, Andaman Sea and adjoining areas of eastcentral and southeast Bay of Bengal from the evening of 5th till the morning of 7th. Thereafter, it will become very rough over southeast Bay of Bengal, Andaman Islands and adjoining Andaman Sea and eastcentral Bay of Bengal by 8th morning and rough over eastcentral and adjoining southeast Bay of Bengal by 8th evening.
- The sea condition will be very rough over Nicobar Islands till 6th.

(iv) Storm Surge Warning

Storm surge of height of about 0.5 m above the astronomical tides likely to inundate the low lying areas of Andaman Islands at the time of landfall.

(v) Damage Expected over Andaman Islands:

Damage to thatched huts, minor damage to power and communication lines due to breaking of branches. Major damage to Kutcha and damage to Pucca roads. Uprooting of small trees and some damage to paddy crops, banana, papaya trees and orchards. Sea water inundation in low lying areas after erosion of Kutcha embankments.

(vi) Action suggested

- People in Andaman Islands are advised to remain in safe places.
- Total suspension of fishing operation over Andaman Sea and adjoining southeast and eastcentral Bay of Bengal till 7th January and over eastcentral & adjoining southeast Bay of Bengal on 8th.
- Fishermen are advised not to venture into Andaman Sea and adjoining southeast and eastcentral Bay of Bengal during the same period.

The next bulletin will be issued at 0230 hrs IST of 06th January, 2019.

(D Joardar)
Scientist-E, RSMC, New Delhi

Copy to: CRS, Pune/ ACWC Kolkata/ Chennai/ CWC Bhubaneswar/CWC Visakhapatnam/ MO Port Blair

Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
Rainfall amount (mm): Heavy rain: 64.5 – 115.5, Very heavy rain: 115.6 – 204.4, Extremely heavy rain: 204.5 or more.

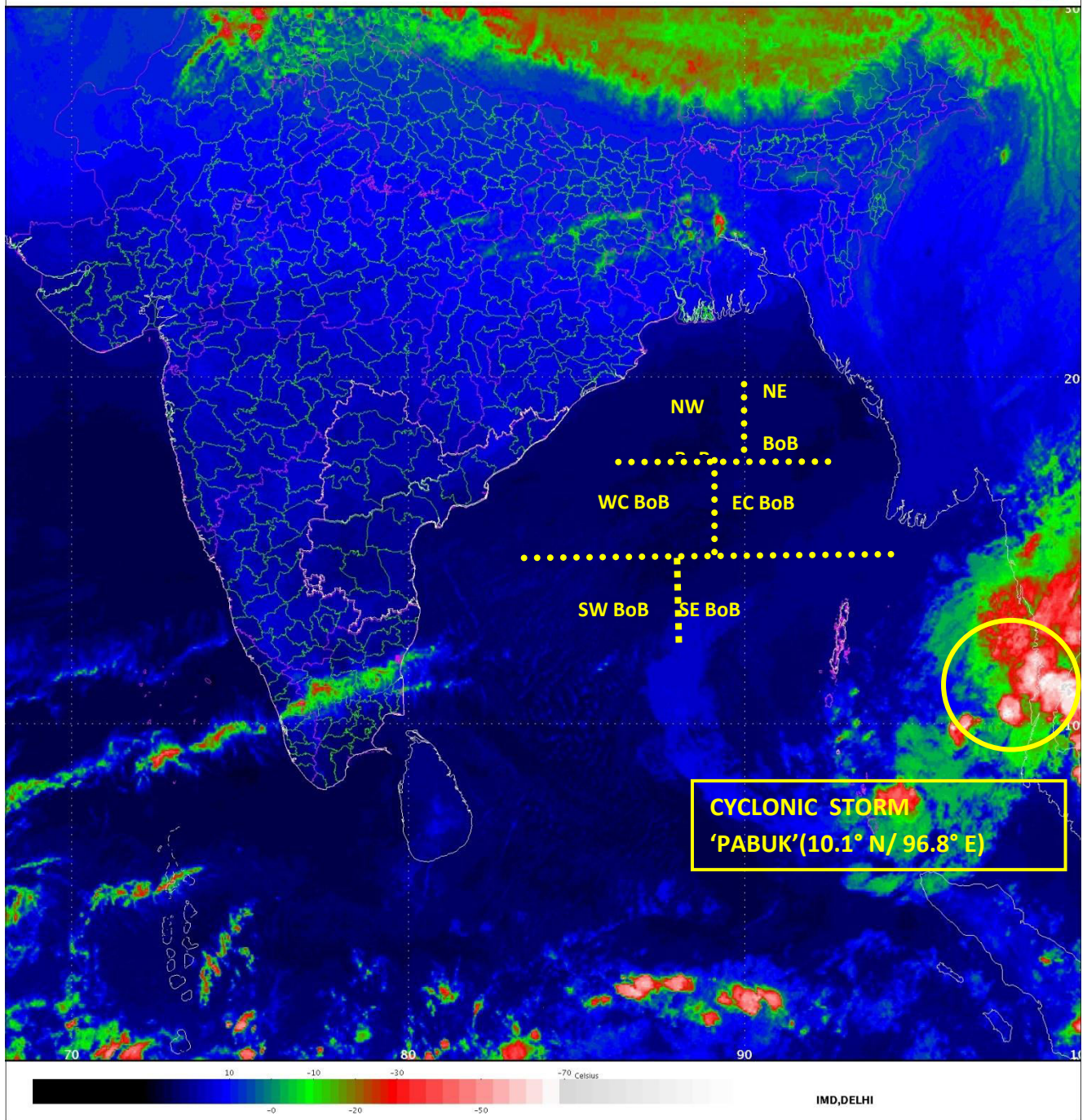
SAT :INSAT-3D

IMG_TIR1_TEMP 10.8 um

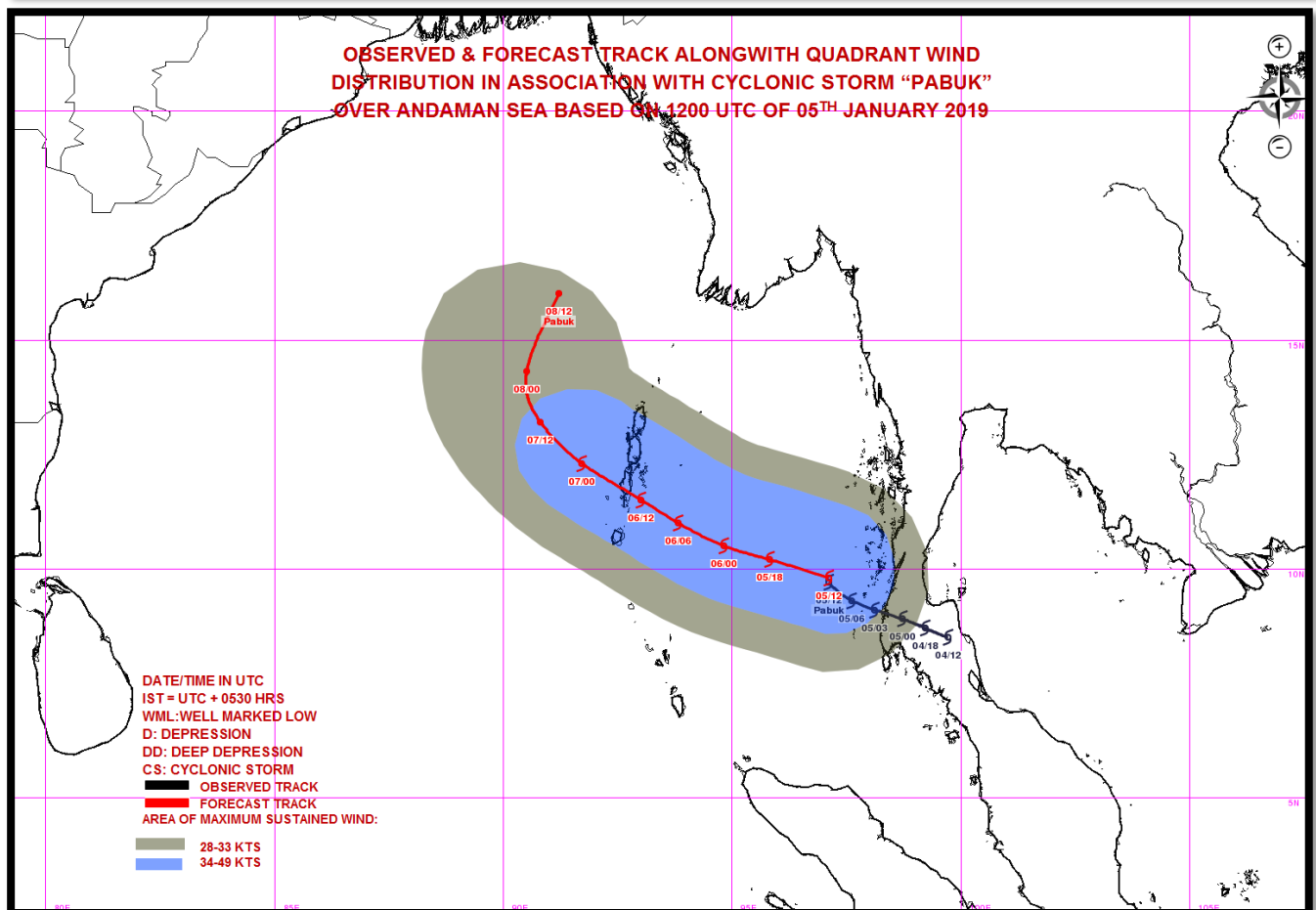
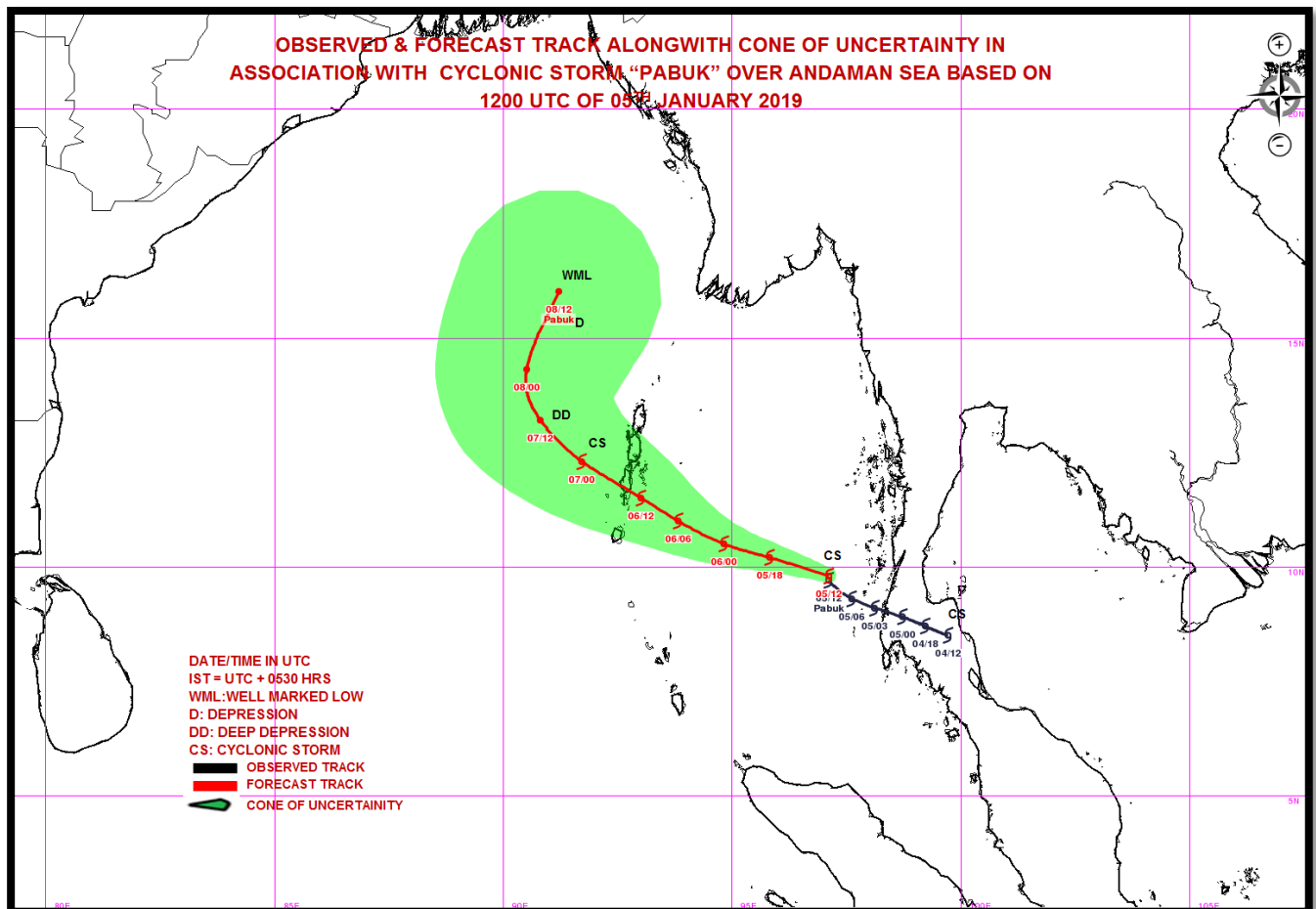
SECTOR BAYOFBENGAL Mercator (NHC LUT)

05-01-2019/15:00 GMT

05-01-2019/20:30 IST



Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
Rainfall amount (mm): Heavy rain: 64.5 – 115.5, Very heavy rain: 115.6 – 204.4, Extremely heavy rain: 204.5 or more.



Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
Rainfall amount (mm): Heavy rain: 64.5 – 115.5, Very heavy rain: 115.6 – 204.4, Extremely heavy rain: 204.5 or more.



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

BULLETIN NO. : 13 (BOB/01/2019)

TIME OF ISSUE: 0130 HOURS IST

DATED: 06.01.2019

FROM: INDIA METEOROLOGICAL DEPARTMENT (FAX NO. 24643965/24699216/24623220)

TO: CONTROL ROOM, NDM, MINISTRY OF HOME AFFAIRS (FAX.NO. 23093750)

CONTROL ROOM NDMA (FAX.NO. 26701729)

CABINET SECRETARIAT (FAX.NO.23012284, 23018638)

PS TO HON'BLE MINISTER FOR S & T AND EARTH SCIENCES (FAX NO.23316745)

SECRETARY, MOES, (FAX NO. 24629777)

H.Q. (INTEGRATED DEFENCE STAFF AND CDS) (FAX NO. 23005137/23005147)

DIRECTOR GENERAL, DOORDARSHAN (23385843)

DIRECTOR GENERAL, AIR (23421105, 23421219)

PIB MOES (FAX NO. 23389042)

UNI (FAX NO. 23355841)

D.G. NATIONAL DISASTER RESPONSE FORCE (NDRF) (FAX NO. 26105912)

DIRECTOR, PUNCTUALITY, INDIAN RAILWAYS (FAX NO. 23388503)

CHIEF SECRETARY, GOVT. OF ODISHA (FAX NO. 0674 -2536660)

CHIEF SECRETARY, ANDHRA PRADESH (FAX NO. 0863-2441029)

CHIEF SECRETARY, TAMIL NADU (FAX NO. 044-25672304)

CHIEF SECRETARY, ANDAMAN & NICOBAR ISLANDS (FAX NO. 03192- 232656)

CHIEF SECRETARY, WEST BENGAL (FAX NO. 033-22144328)

CHIEF SECRETARY, PUDUCHERRY (FAX NO. 0413-2337575)

**Sub: Cyclonic Storm 'PABUK' over Andaman Sea & neighbourhood :
Cyclone warning for Andaman Islands 'ORANGE MESSAGE'**

The cyclonic storm 'PABUK' over Andaman Sea & neighbourhood moved north-northwestwards with a speed of 15 kmph during past 06 hours. It lay centered at 2330 hours IST of yesterday, the 05th January, 2019 over Andaman Sea & neighbourhood near latitude 10.4°N and longitude 96.5°E, about 435 km east-southeast of Port Blair. It is very likely to continue to move north-northwestwards for some more time and cross Andaman Islands around evening of 06th January as a Cyclonic Storm with a wind speed of 65-75 kmph gusting to 85 kmph. Thereafter, it is very likely to move north-northwestwards and then recurve northeastwards towards Myanmar coast and weaken gradually during 07th-08th January, 2019.

Forecast track and intensity are given in the following table:

Date/Time(IST)	Position (Lat.°N/ long.°E)	Maximum sustained surface wind speed (Kmph)	Category of cyclonic disturbance
05.01.19/2330	10.4/96.5	65-75 gusting to 85	Cyclonic Storm
06.01.19/0530	11.0/95.5	65-75 gusting to 85	Cyclonic Storm
06.01.19/1130	11.5/94.1	65-75 gusting to 85	Cyclonic Storm
06.01.19/1730	12.0/93.0	65-75 gusting to 85	Cyclonic Storm
06.01.19/2330	12.3/92.2	65-75 gusting to 85	Cyclonic Storm
07.01.19/1130	13.0/91.3	50-60 gusting to 70	Deep Depression
07.01.19/2330	13.9/90.7	40-50 gusting to 60	Depression
08.01.19/1130	15.5/90.8	30-40 gusting to 50	Depression

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

Rainfall amount (mm): Heavy rain: 64.5 – 115.5, Very heavy rain: 115.6 – 204.4, Extremely heavy rain: 204.5 or more.

Warnings:

(i) Heavy rainfall warning

Rainfall at many places with heavy falls at isolated places very likely over Andaman Islands and its intensity is very likely to increase with rainfall at most places with heavy to very heavy rainfall at a few places on 6th and at isolated places on 7th over Andaman Islands.

(ii) Wind warning

- Gale wind speed reaching 70-80 kmph gusting to 90 kmph is likely to prevail over Andaman Islands, Andaman Sea and adjoining areas of eastcentral and southeast Bay of Bengal till 7th morning. It is very likely to gradually decrease thereafter becoming 50-60 kmph gusting to 70 kmph over southeast Bay of Bengal, Andaman Islands and adjoining Andaman Sea & eastcentral Bay of Bengal by 8th morning and 40-50 kmph gusting to 60 kmph over eastcentral and adjoining southeast Bay of Bengal by 8th evening.
- Squally wind speed reaching 40-50 kmph gusting to 60 kmph is likely to prevail over Nicobar Islands till 6th.

(iii) Sea condition

- The sea condition will be high over Andaman Islands, Andaman Sea and adjoining areas of eastcentral and southeast Bay of Bengal from the evening of 5th till the morning of 7th. Thereafter, it will become very rough over southeast Bay of Bengal, Andaman Islands and adjoining Andaman Sea and eastcentral Bay of Bengal by 8th morning and rough over eastcentral and adjoining southeast Bay of Bengal by 8th evening.
- The sea condition will be very rough over Nicobar Islands till 6th.

(iv) Storm Surge Warning

Storm surge of height of about 0.5 m above the astronomical tides likely to inundate the low lying areas of Andaman Islands at the time of landfall.

(v) Damage Expected over Andaman Islands:

Damage to thatched huts, minor damage to power and communication lines due to breaking of branches. Major damage to Kutcha and damage to Pucca roads. Uprooting of small trees and some damage to paddy crops, banana, papaya trees and orchards. Sea water inundation in low lying areas after erosion of Kutcha embankments.

(vi) Action suggested

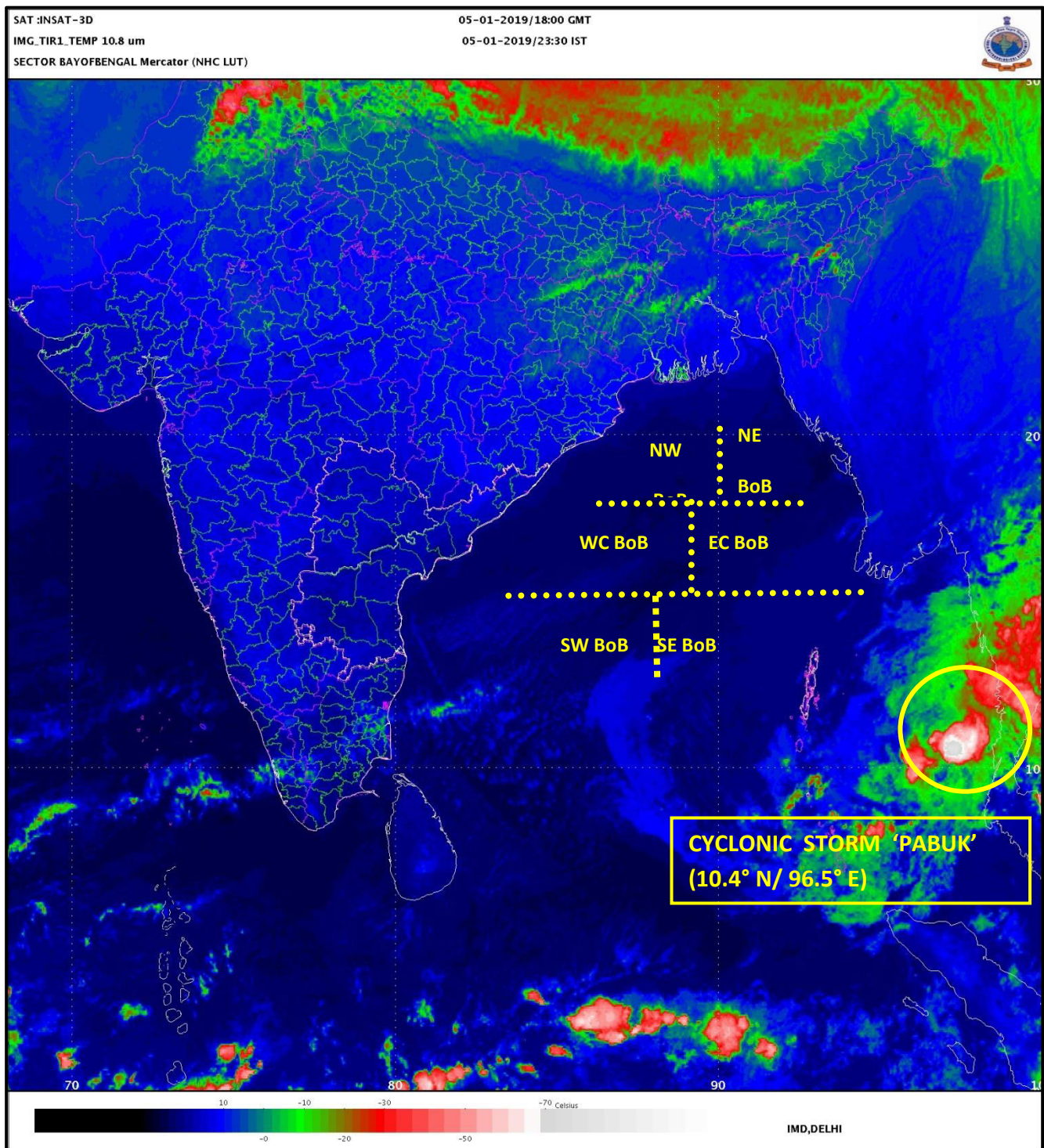
- People in Andaman Islands are advised to remain in safe places.
- Total suspension of fishing operation over Andaman Sea and adjoining southeast and eastcentral Bay of Bengal till 7th January and over eastcentral & adjoining southeast Bay of Bengal on 8th.
- Fishermen are advised not to venture into Andaman Sea and adjoining southeast and eastcentral Bay of Bengal during the same period.

The next bulletin will be issued at 0530 hrs IST of 06th January, 2019.

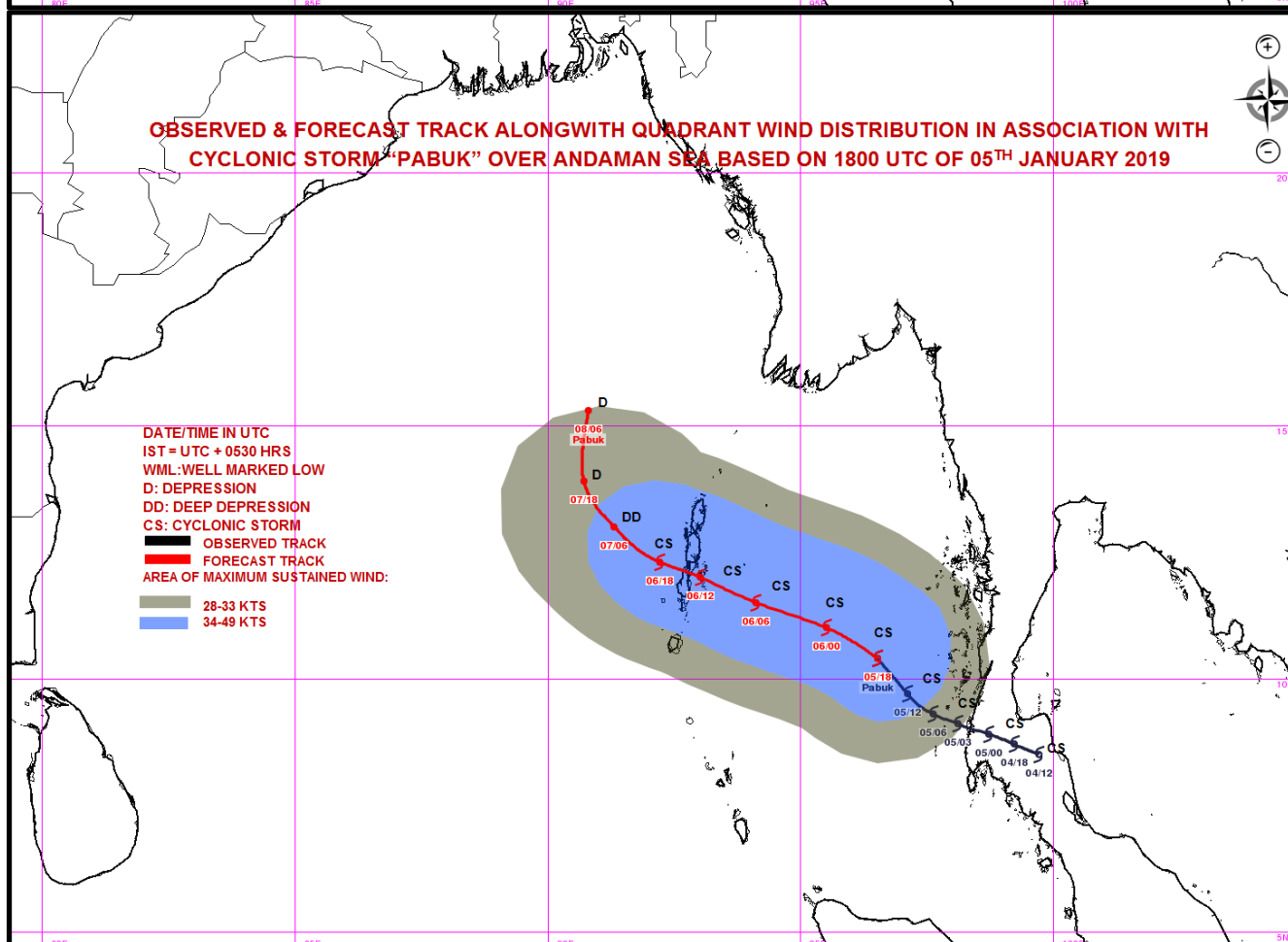
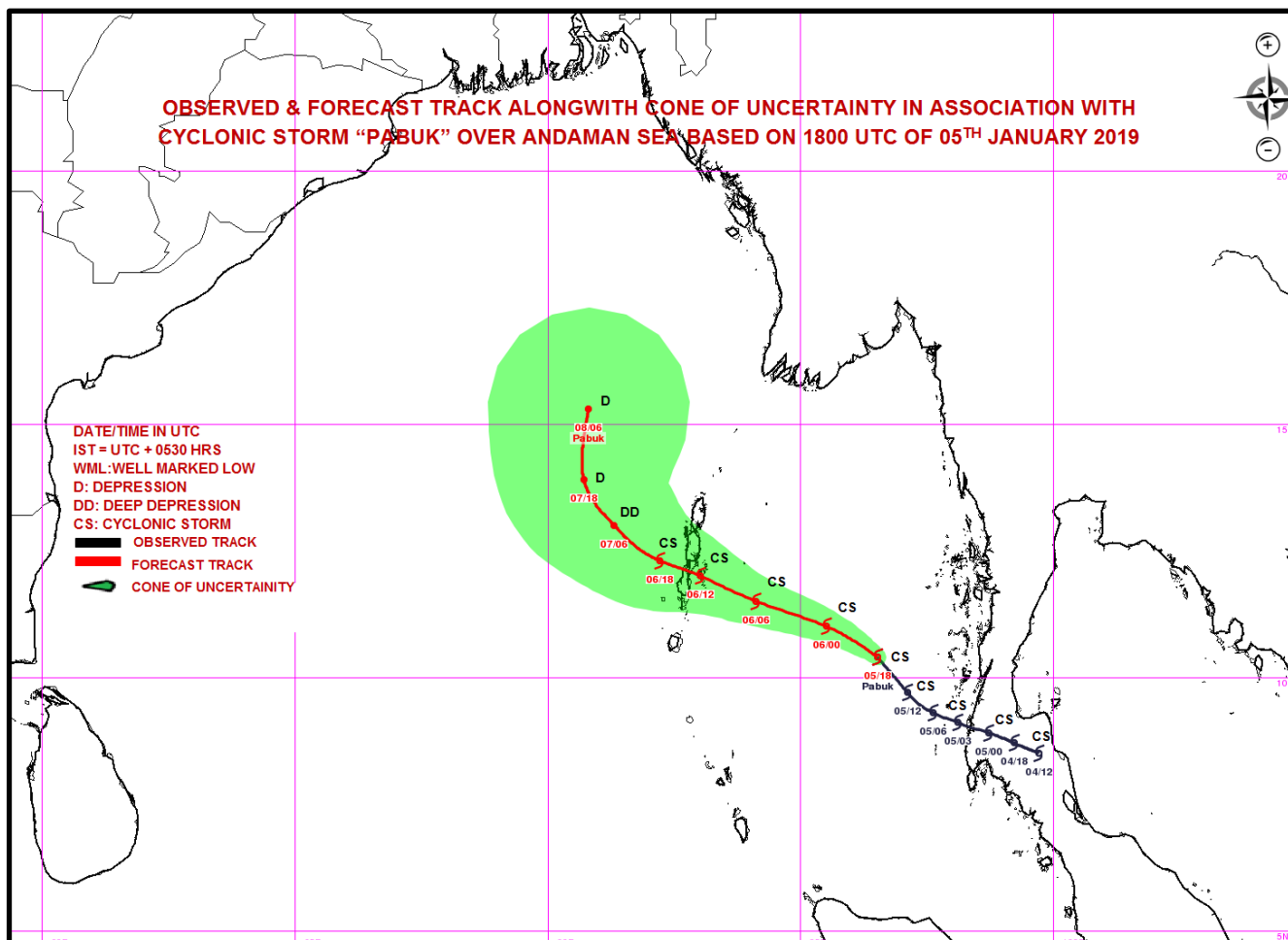
(D Joardar)
Scientist-E, RSMC, New Delhi

Copy to: CRS, Pune/ ACWC Kolkata/ Chennai/ CWC Bhubaneswar/CWC Visakhapatnam/ MO Port Blair

Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
Rainfall amount (mm): Heavy rain: 64.5 – 115.5, Very heavy rain: 115.6 – 204.4, Extremely heavy rain: 204.5 or more.



Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
Rainfall amount (mm): Heavy rain: 64.5 – 115.5, Very heavy rain: 115.6 – 204.4, Extremely heavy rain: 204.5 or more.



Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
Rainfall amount (mm): Heavy rain: 64.5 – 115.5, Very heavy rain: 115.6 – 204.4, Extremely heavy rain: 204.5 or more.



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

BULLETIN NO. : 14 (BOB/01/2019)

TIME OF ISSUE: 0530 HOURS IST

DATED: 06.01.2019

FROM: INDIA METEOROLOGICAL DEPARTMENT (FAX NO. 24643965/24699216/24623220)

TO: CONTROL ROOM, NDM, MINISTRY OF HOME AFFAIRS (FAX.NO. 23093750)

CONTROL ROOM NDMA (FAX.NO. 26701729)

CABINET SECRETARIAT (FAX.NO.23012284, 23018638)

PS TO HON'BLE MINISTER FOR S & T AND EARTH SCIENCES (FAX NO.23316745)

SECRETARY, MOES, (FAX NO. 24629777)

H.Q. (INTEGRATED DEFENCE STAFF AND CDS) (FAX NO. 23005137/23005147)

DIRECTOR GENERAL, DOORDARSHAN (23385843)

DIRECTOR GENERAL, AIR (23421105, 23421219)

PIB MOES (FAX NO. 23389042)

UNI (FAX NO. 23355841)

D.G. NATIONAL DISASTER RESPONSE FORCE (NDRF) (FAX NO. 26105912)

DIRECTOR, PUNCTUALITY, INDIAN RAILWAYS (FAX NO. 23388503)

CHIEF SECRETARY, GOVT. OF ODISHA (FAX NO. 0674 -2536660)

CHIEF SECRETARY, ANDHRA PRADESH (FAX NO. 0863-2441029)

CHIEF SECRETARY, TAMIL NADU (FAX NO. 044-25672304)

CHIEF SECRETARY, ANDAMAN & NICOBAR ISLANDS (FAX NO. 03192- 232656)

CHIEF SECRETARY, WEST BENGAL (FAX NO. 033-22144328)

CHIEF SECRETARY, PUDUCHERRY (FAX NO. 0413-2337575)

**Sub: Cyclonic Storm 'PABUK' over Andaman Sea & neighbourhood :
Cyclone warning for Andaman Islands 'ORANGE MESSAGE'**

The cyclonic storm 'PABUK' over Andaman Sea & neighbourhood moved north-northwestwards with a speed of 18 kmph during past 06 hours. It lay centered at 0230 hours IST of today, the 06th January, 2019 over Andaman Sea & neighbourhood near latitude 10.7°N and longitude 96.0°E, about 370 km east-southeast of Port Blair. It is very likely to continue to move north-northwestwards for some more time and cross Andaman Islands around evening of 06th January as a Cyclonic Storm with a wind speed of 65-75 kmph gusting to 85 kmph. Thereafter, it is very likely to move north-northwestwards and then recurve northeastwards towards Myanmar coast and weaken gradually during 07th-08th January, 2019.

Forecast track and intensity are given in the following table:

Date/Time(IST)	Position (Lat.°N/ long.°E)	Maximum sustained surface wind speed (Kmph)	Category of cyclonic disturbance
06.01.19/0230	10.7/96.0	65-75 gusting to 85	Cyclonic Storm
06.01.19/0530	11.0/95.5	65-75 gusting to 85	Cyclonic Storm
06.01.19/1130	11.5/94.1	65-75 gusting to 85	Cyclonic Storm
06.01.19/1730	12.0/93.0	65-75 gusting to 85	Cyclonic Storm
06.01.19/2330	12.3/92.2	65-75 gusting to 85	Cyclonic Storm
07.01.19/1130	13.0/91.3	50-60 gusting to 70	Deep Depression
07.01.19/2330	13.9/90.7	40-50 gusting to 60	Depression
08.01.19/1130	15.5/90.8	30-40 gusting to 50	Depression
08.01.19/2330	16.0/91.0	30-40 gusting to 50	Depression

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

Rainfall amount (mm): Heavy rain: 64.5 – 115.5, Very heavy rain: 115.6 – 204.4, Extremely heavy rain: 204.5 or more.

Warnings:

(i) Heavy rainfall warning

Rainfall at many places with heavy falls at isolated places very likely over Andaman Islands and its intensity is very likely to increase with rainfall at most places with heavy to very heavy rainfall at a few places on 6th and at isolated places on 7th over Andaman Islands.

(ii) Wind warning

- Gale wind speed reaching 70-80 kmph gusting to 90 kmph is likely to prevail over Andaman Islands, Andaman Sea and adjoining areas of eastcentral and southeast Bay of Bengal till 7th morning. It is very likely to gradually decrease thereafter becoming 50-60 kmph gusting to 70 kmph over southeast Bay of Bengal, Andaman Islands and adjoining Andaman Sea & eastcentral Bay of Bengal by 8th morning and 40-50 kmph gusting to 60 kmph over eastcentral and adjoining southeast Bay of Bengal by 8th evening.
- Squally wind speed reaching 40-50 kmph gusting to 60 kmph is likely to prevail over Nicobar Islands till 6th.

(iii) Sea condition

- The sea condition will be high over Andaman Islands, Andaman Sea and adjoining areas of eastcentral and southeast Bay of Bengal from the evening of 5th till the morning of 7th. Thereafter, it will become very rough over southeast Bay of Bengal, Andaman Islands and adjoining Andaman Sea and eastcentral Bay of Bengal by 8th morning and rough over eastcentral and adjoining southeast Bay of Bengal by 8th evening.
- The sea condition will be very rough over Nicobar Islands till 6th.

(iv) Storm Surge Warning

Storm surge of height of about 0.5 m above the astronomical tides likely to inundate the low lying areas of Andaman Islands at the time of landfall.

(v) Damage Expected over Andaman Islands:

Damage to thatched huts, minor damage to power and communication lines due to breaking of branches. Major damage to Kutcha and damage to Pucca roads. Uprooting of small trees and some damage to paddy crops, banana, papaya trees and orchards. Sea water inundation in low lying areas after erosion of Kutcha embankments.

(vi) Action suggested

- People in Andaman Islands are advised to remain in safe places.
- Total suspension of fishing operation over Andaman Sea and adjoining southeast and eastcentral Bay of Bengal till 7th January and over eastcentral & adjoining southeast Bay of Bengal on 8th.
- Fishermen are advised not to venture into Andaman Sea and adjoining southeast and eastcentral Bay of Bengal during the same period.

The next bulletin will be issued at 0830 hrs IST of 06th January, 2019.

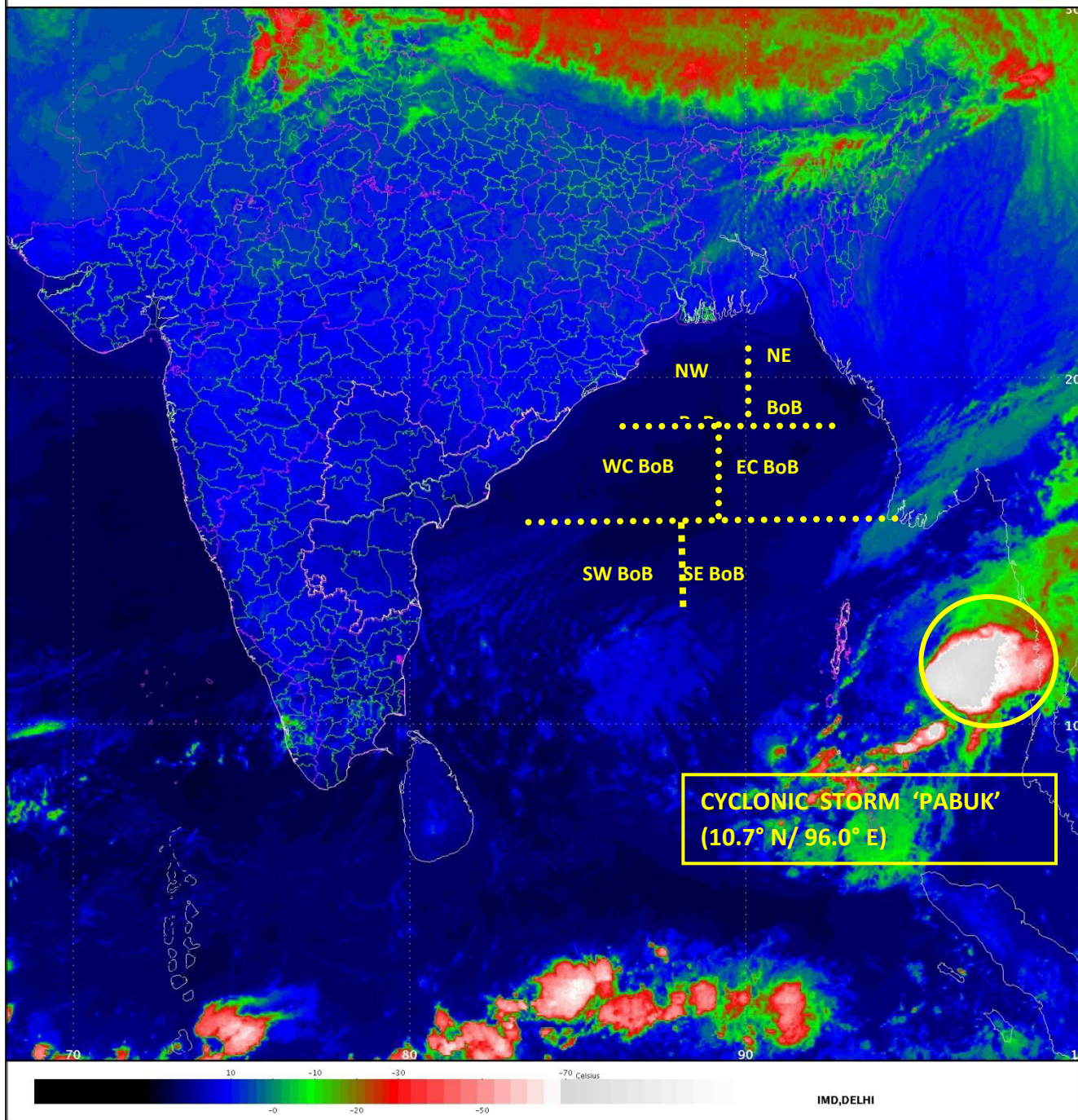
(D Joardar)
Scientist-E, RSMC, New Delhi

Copy to: CRS, Pune/ ACWC Kolkata/ Chennai/ CWC Bhubaneswar/CWC Visakhapatnam/ MO Port Blair

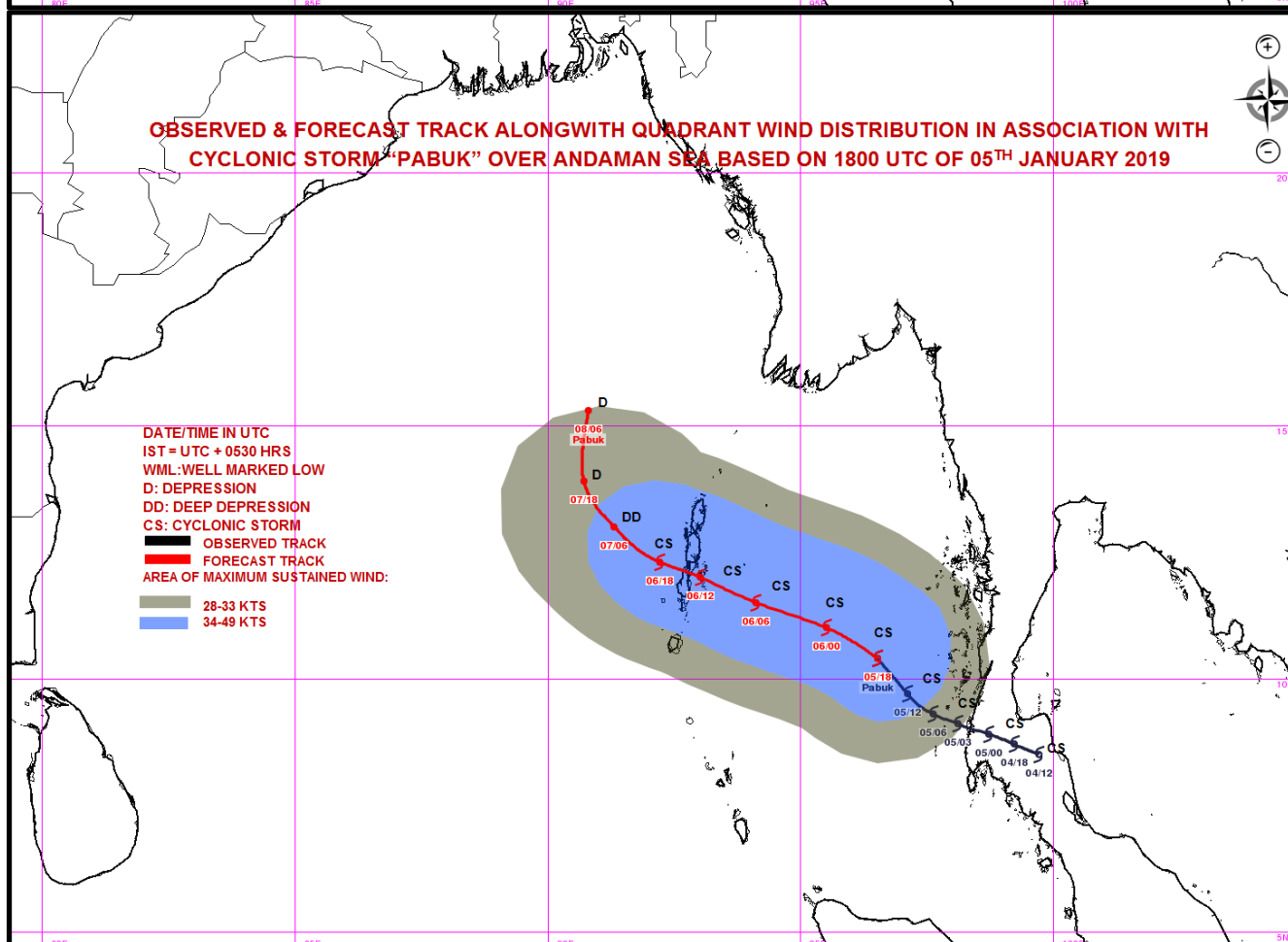
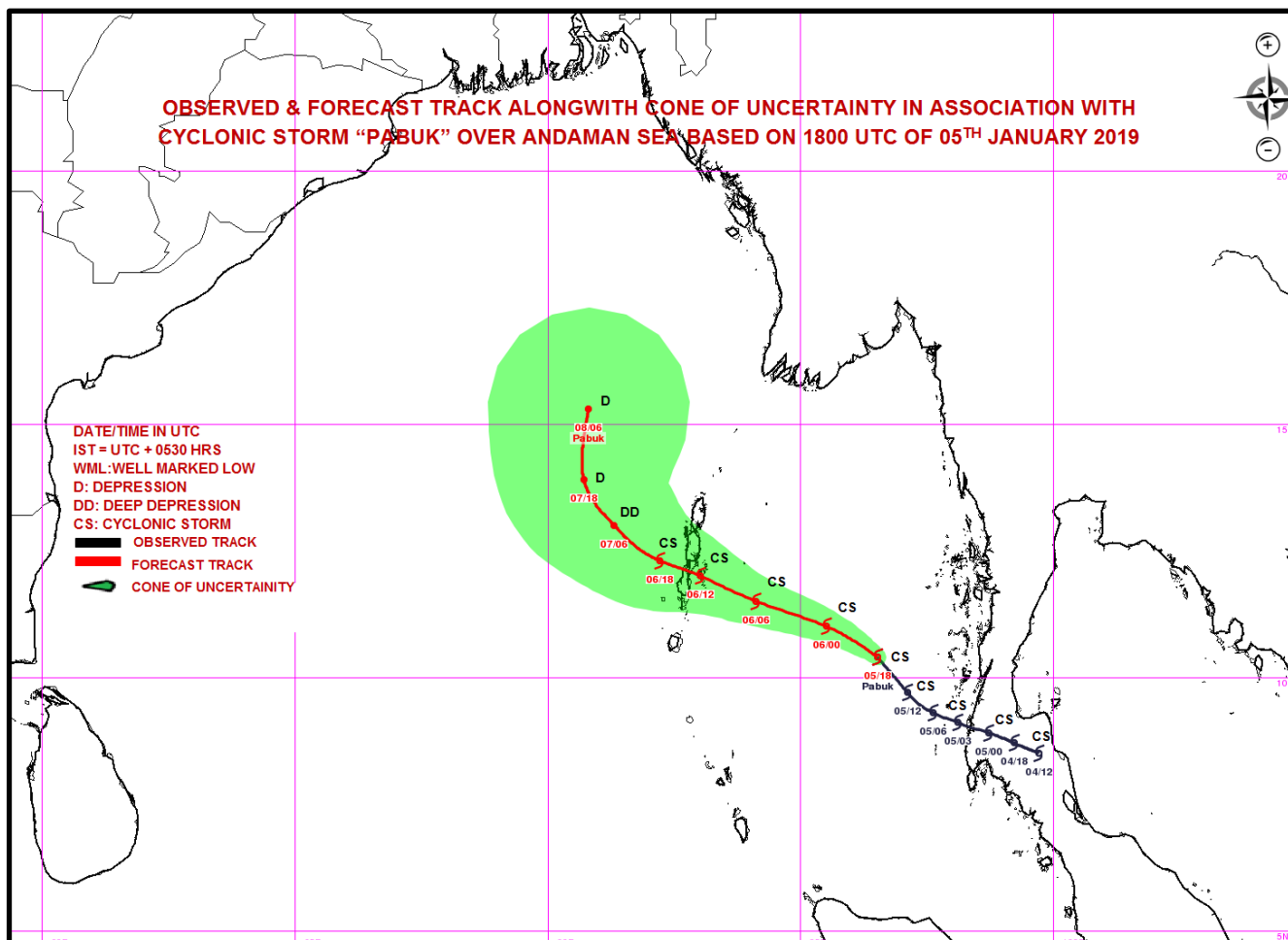
Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
Rainfall amount (mm): Heavy rain: 64.5 – 115.5, Very heavy rain: 115.6 – 204.4, Extremely heavy rain: 204.5 or more.

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

05-01-2019/22:30 GMT
06-01-2019/04:00 IST



Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
Rainfall amount (mm): Heavy rain: 64.5 – 115.5, Very heavy rain: 115.6 – 204.4, Extremely heavy rain: 204.5 or more.



Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
Rainfall amount (mm): Heavy rain: 64.5 – 115.5, Very heavy rain: 115.6 – 204.4, Extremely heavy rain: 204.5 or more.



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

BULLETIN NO. : 15 (BOB/01/2019)



TIME OF ISSUE: 0830 HOURS IST

DATED: 06.01.2019

FROM: INDIA METEOROLOGICAL DEPARTMENT (FAX NO. 24643965/24699216/24623220)

TO: CONTROL ROOM, NDM, MINISTRY OF HOME AFFAIRS (FAX.NO. 23093750)

CONTROL ROOM NDMA (FAX.NO. 26701729)

CABINET SECRETARIAT (FAX.NO.23012284, 23018638)

PS TO HON'BLE MINISTER FOR S & T AND EARTH SCIENCES (FAX NO.23316745)

SECRETARY, MOES, (FAX NO. 24629777)

H.Q. (INTEGRATED DEFENCE STAFF AND CDS) (FAX NO. 23005137/23005147)

DIRECTOR GENERAL, DOORDARSHAN (23385843)

DIRECTOR GENERAL, AIR (23421105, 23421219)

PIB MOES (FAX NO. 23389042)

UNI (FAX NO. 23355841)

D.G. NATIONAL DISASTER RESPONSE FORCE (NDRF) (FAX NO. 26105912)

DIRECTOR, PUNCTUALITY, INDIAN RAILWAYS (FAX NO. 23388503)

CHIEF SECRETARY, GOVT. OF ODISHA (FAX NO. 0674 -2536660)

CHIEF SECRETARY, ANDHRA PRADESH (FAX NO. 0863-2441029)

CHIEF SECRETARY, TAMIL NADU (FAX NO. 044-25672304)

CHIEF SECRETARY, ANDAMAN & NICOBAR ISLANDS (FAX NO. 03192- 232656)

CHIEF SECRETARY, WEST BENGAL (FAX NO. 033-22144328)

CHIEF SECRETARY, PUDUCHERRY (FAX NO. 0413-2337575)

**Sub: Cyclonic Storm 'PABUK' over Andaman Sea & neighbourhood :
Cyclone warning for Andaman Islands 'ORANGE MESSAGE'**

The cyclonic storm '**PABUK**' over Andaman Sea & neighbourhood moved north-northwestwards with a speed of 20 kmph during past 06 hours. It lay centered at 0530 hours IST of today, the 06th January, 2019 over Andaman Sea & neighbourhood near latitude 11.0°N and longitude 95.5°E, about 310 km east-southeast of Port Blair. It is very likely to continue to move north-northwestwards and cross Andaman Islands by tonight as a Cyclonic Storm with a wind speed of 65-75 kmph gusting to 85 kmph. Thereafter, it is very likely to move north-northwestwards and then recurve northeastwards towards Myanmar coast and weaken gradually thereafter.

Forecast track and intensity are given in the following table:

Date/Time(IST)	Position (Lat.°N/ long.°E)	Maximum sustained surface wind speed (Kmph)	Category of cyclonic disturbance
06.01.19/0530	11.0/95.5	65-75 gusting to 85	Cyclonic Storm
06.01.19/1130	11.5/94.1	65-75 gusting to 85	Cyclonic Storm
06.01.19/1730	11.9/93.0	65-75 gusting to 85	Cyclonic Storm
06.01.19/2330	12.3/92.2	50-60 gusting to 70	Deep Depression
07.01.19/0530	13.0/92.1	40-50 gusting to 60	Depression
07.01.19/1730	14.0/92.8	30-40 gusting to 50	Well marked low

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

Rainfall amount (mm): Heavy rain: 64.5 – 115.5, Very heavy rain: 115.6 – 204.4, Extremely heavy rain: 204.5 or more.

Warnings:

(i) Heavy rainfall warning

Rainfall at many places with heavy falls at isolated places very likely over Andaman Islands and its intensity is very likely to increase with rainfall at most places with heavy to very heavy rainfall at a few places from evening of 6th and at isolated places on 7th over Andaman Islands.

(ii) Wind warning

- Gale wind speed reaching 65-75 kmph gusting to 85 kmph is likely to prevail over Andaman Islands, Andaman Sea and adjoining areas of eastcentral and southeast Bay of Bengal till today night i.e. 6th January. It is very likely to gradually decrease thereafter becoming 50-60 kmph gusting to 70 kmph over southeast Bay of Bengal, Andaman Islands and adjoining Andaman Sea & eastcentral Bay of Bengal by 7th morning and 40-50 kmph gusting to 60 kmph over eastcentral and adjoining southeast Bay of Bengal by 7th evening .
- Squally wind speed reaching 40-50 kmph gusting to 60 kmph is likely to prevail over Nicobar Islands till 7th morning.

(iii) Sea condition

- The sea condition will be high over Andaman Islands, Andaman Sea and adjoining areas of eastcentral and southeast Bay of Bengal from 6th morning till the morning of 7th. Thereafter, it will become very rough over southeast Bay of Bengal, Andaman Islands and adjoining Andaman Sea and eastcentral Bay of Bengal upto 7th night and rough over eastcentral and adjoining southeast Bay of Bengal upto 8th morning.
- The sea condition will be rough to very rough over Nicobar Islands till 6th night.

(iv) Storm Surge Warning

Storm surge of height of about 0.5 m above the astronomical tides likely to inundate the low lying areas of Andaman Islands at the time of landfall.

(v) Damage Expected over Andaman Islands:

Damage to thatched huts, minor damage to power and communication lines due to breaking of branches. Major damage to Kutcha and damage to Pucca roads. Uprooting of small trees and some damage to paddy crops, banana, papaya trees and orchards. Sea water inundation in low lying areas after erosion of Kutcha embankments.

(vi) Action suggested

- People in Andaman Islands are advised to remain in safe places.
- Total suspension of fishing operation over Andaman Sea and adjoining southeast and eastcentral Bay of Bengal till 7th January and over eastcentral & adjoining southeast Bay of Bengal on 8th.
- Fishermen are advised not to venture into Andaman Sea and adjoining southeast and eastcentral Bay of Bengal during the same period.

The next bulletin will be issued at 1130 hrs IST of 06th January, 2019.

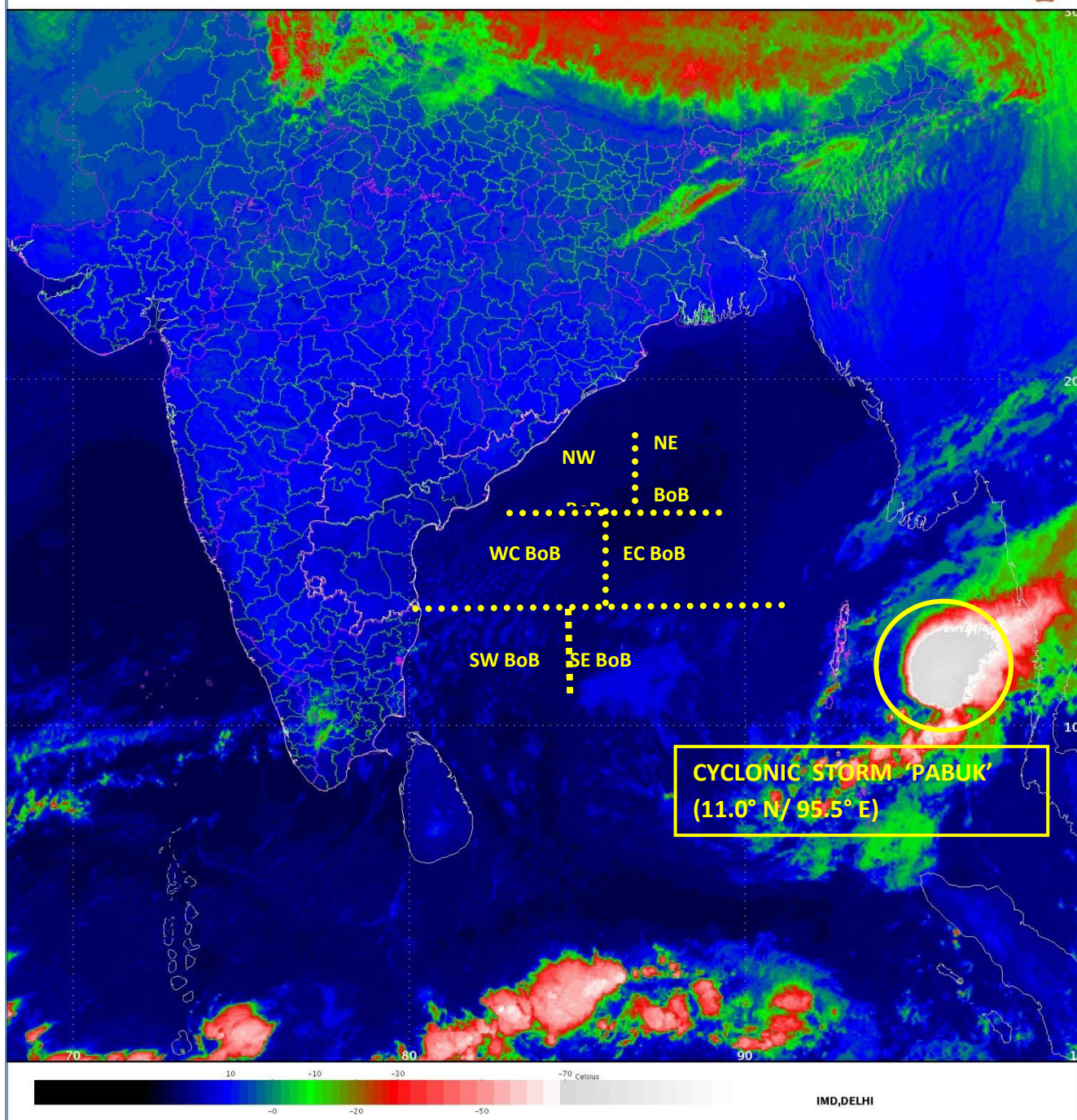
(Charan Singh)
Scientist-F, RSMC, New Delhi

Copy to: CRS, Pune/ ACWC Kolkata/ Chennai/ CWC Bhubaneswar/CWC Visakhapatnam/ MO Port Blair

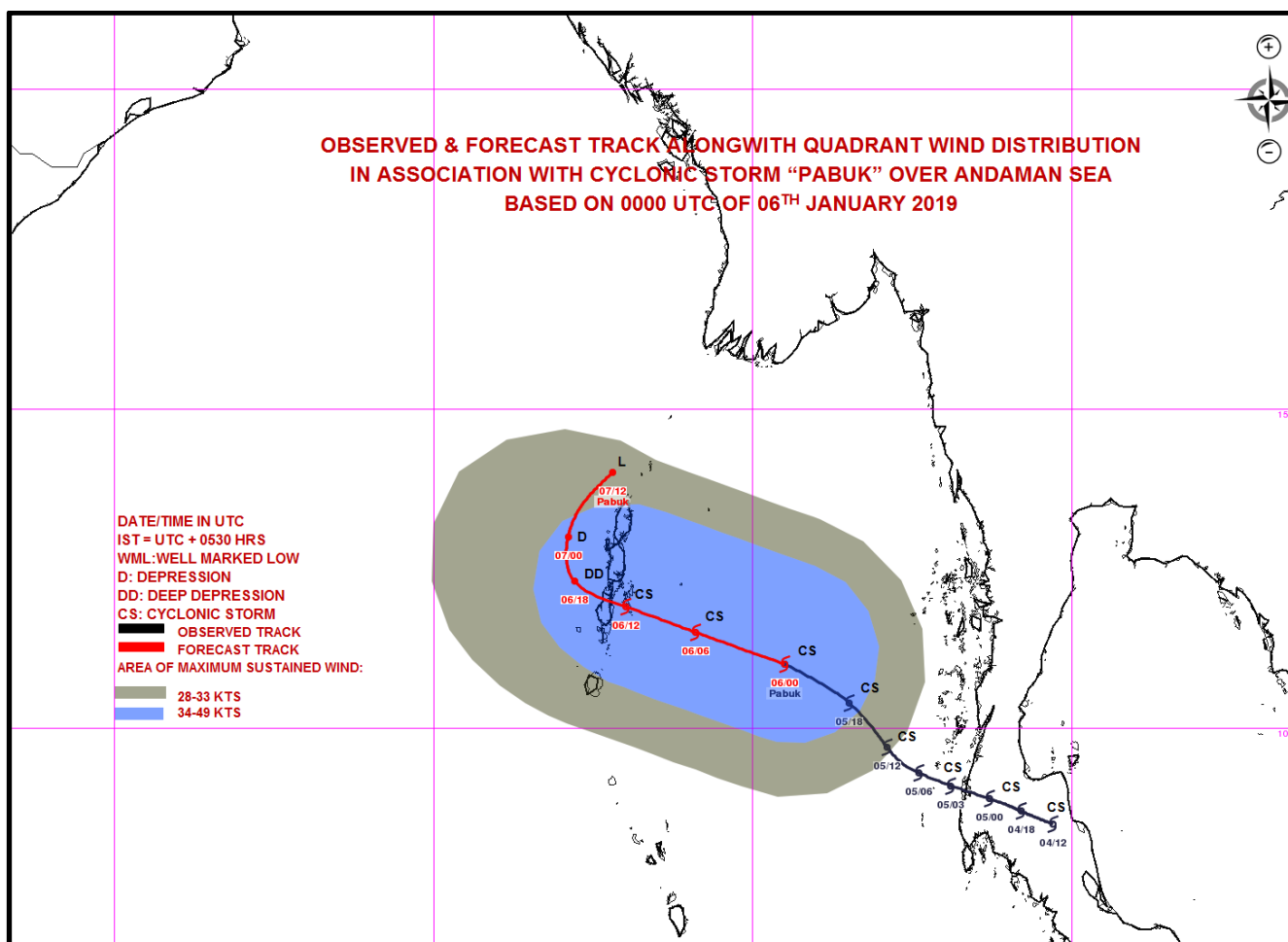
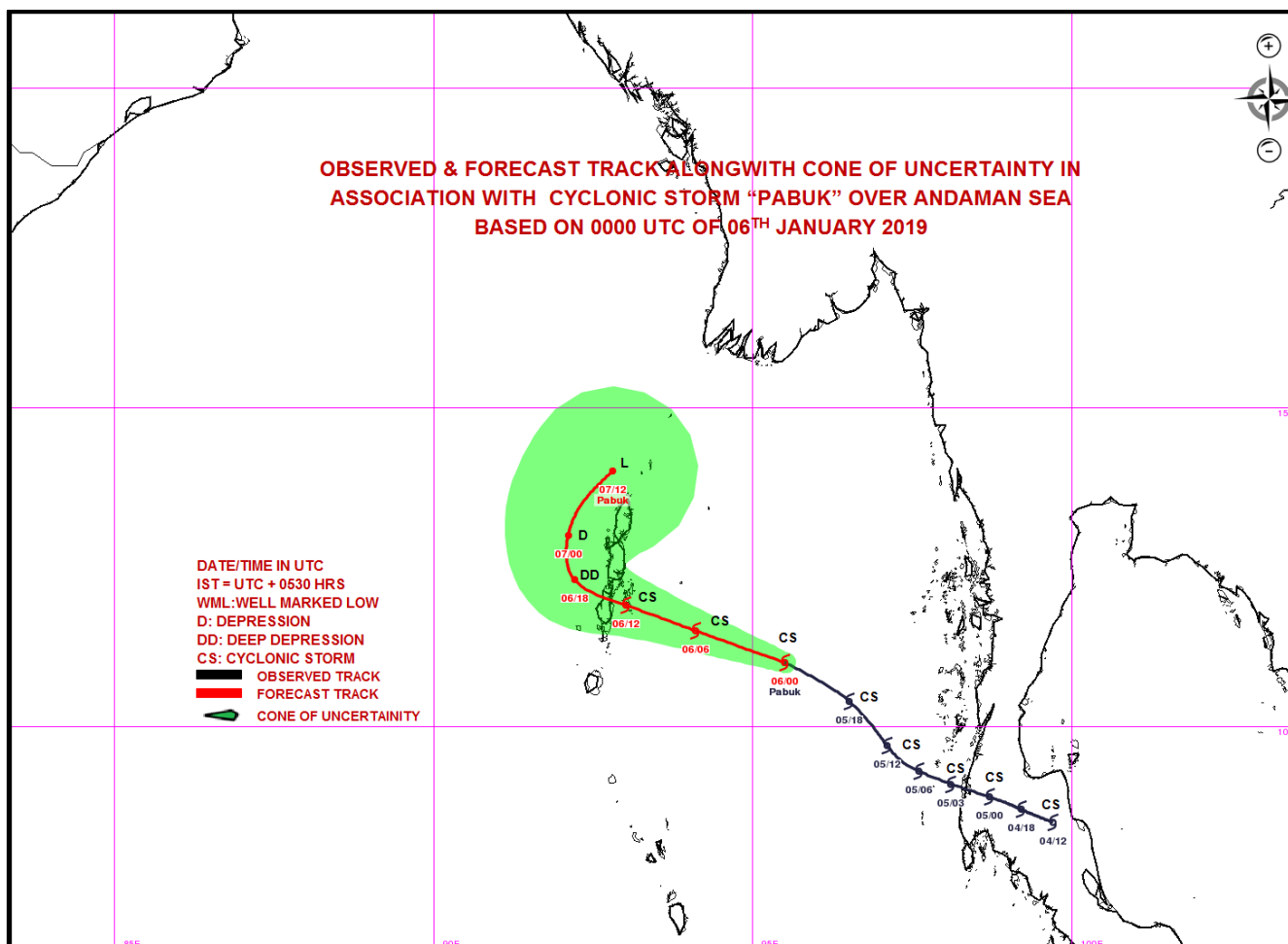
Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
Rainfall amount (mm): Heavy rain: 64.5 – 115.5, Very heavy rain: 115.6 – 204.4, Extremely heavy rain: 204.5 or more.

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

06-01-2019/00:30 GMT
06-01-2019/06:00 IST



Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
Rainfall amount (mm): Heavy rain: 64.5 – 115.5, Very heavy rain: 115.6 – 204.4, Extremely heavy rain: 204.5 or more.



Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
Rainfall amount (mm): Heavy rain: 64.5 – 115.5, Very heavy rain: 115.6 – 204.4, Extremely heavy rain: 204.5 or more.



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

BULLETIN NO. : 16 (BOB/01/2019)

TIME OF ISSUE: 1130 HOURS IST

DATED: 06.01.2019

FROM: INDIA METEOROLOGICAL DEPARTMENT (FAX NO. 24643965/24699216/24623220)

TO: CONTROL ROOM, NDM, MINISTRY OF HOME AFFAIRS (FAX.NO. 23093750)

CONTROL ROOM NDMA (FAX.NO. 26701729)

CABINET SECRETARIAT (FAX.NO.23012284, 23018638)

PS TO HON'BLE MINISTER FOR S & T AND EARTH SCIENCES (FAX NO.23316745)

SECRETARY, MOES, (FAX NO. 24629777)

H.Q. (INTEGRATED DEFENCE STAFF AND CDS) (FAX NO. 23005137/23005147)

DIRECTOR GENERAL, DOORDARSHAN (23385843)

DIRECTOR GENERAL, AIR (23421105, 23421219)

PIB MOES (FAX NO. 23389042)

UNI (FAX NO. 23355841)

D.G. NATIONAL DISASTER RESPONSE FORCE (NDRF) (FAX NO. 26105912)

DIRECTOR, PUNCTUALITY, INDIAN RAILWAYS (FAX NO. 23388503)

CHIEF SECRETARY, GOVT. OF ODISHA (FAX NO. 0674 -2536660)

CHIEF SECRETARY, ANDHRA PRADESH (FAX NO. 0863-2441029)

CHIEF SECRETARY, TAMIL NADU (FAX NO. 044-25672304)

CHIEF SECRETARY, ANDAMAN & NICOBAR ISLANDS (FAX NO. 03192- 232656)

CHIEF SECRETARY, WEST BENGAL (FAX NO. 033-22144328)

CHIEF SECRETARY, PUDUCHERRY (FAX NO. 0413-2337575)

Sub: Cyclonic Storm 'PABUK' over Andaman Sea:

The cyclonic storm '**PABUK**' over Andaman Sea & neighbourhood moved west-northwestwards with a speed of 26 kmph during past 06 hours. It lay centered at 0830 hours IST of today, the 06th January, 2019 over Andaman Sea near latitude 11.1°N and longitude 94.6°E, about 210 km east-southeast of Port Blair. Due to unfavourable conditions, the system is very likely to weaken into a deep depression during next 06 hours and further into a depression during subsequent 12 hours.

It is very likely to continue to move west-northwestwards and cross Andaman Islands by tonight as a deep depression with a wind speed of 55-65 kmph gusting to 75 kmph. Thereafter, it is very likely to move north-northwestwards and then recurve northeastwards towards Myanmar coast and weaken gradually.

Forecast track and intensity are given in the following table:

Date/Time(IST)	Position (Lat.°N/ long.°E)	Maximum sustained surface wind speed (Kmph)	Category of cyclonic disturbance
06.01.19/0830	11.1/94.6	60-70 gusting to 80	Cyclonic Storm
06.01.19/1130	11.3/94.1	55-65 gusting to 75	Deep Depression
06.01.19/1730	11.8/93.1	55-65 gusting to 75	Deep Depression
06.01.19/2330	12.3/92.2	50-60 gusting to 70	Deep Depression
07.01.19/0530	13.0/92.1	40-50 gusting to 60	Depression
07.01.19/1730	14.0/92.8	25-35 gusting to 45	Well marked low

Warnings:

(i) Heavy rainfall warning

Rainfall at most places with heavy to very heavy rainfall at a few places on today, the 6th January, 2019 and at heavy rainfall isolated places on 7th over Andaman Islands.

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

Rainfall amount (mm): Heavy rain: 64.5 – 115.5, Very heavy rain: 115.6 – 204.4, Extremely heavy rain: 204.5 or more.

(ii) Wind warning

- Gale wind speed reaching 60-70 kmph gusting to 80 kmph is likely to prevail over Andaman Sea during next three hours.
- It is very likely to gradually decrease thereafter becoming 55-65 kmph gusting to 75 kmph over southeast Bay of Bengal, Andaman Islands and adjoining Andaman Sea & eastcentral Bay of Bengal till today, the 6th January 2019 night and 40-50 kmph gusting to 60 kmph over eastcentral and adjoining southeast Bay of Bengal by 7th morning.
- Squally wind speed reaching 40-50 kmph gusting to 60 kmph is likely to prevail over Nicobar Islands till today, the 6th January 2019 night.

(iii) Sea condition

- The sea condition will be high over Andaman during next three hours.
- Thereafter, it will become very rough over southeast Bay of Bengal, around Andaman Islands & adjoining Andaman Sea and eastcentral Bay of Bengal till today, the 6th January 2019 night and rough to very rough over eastcentral and adjoining southeast Bay of Bengal by 7th morning and improve thereafter.
- The sea condition will be rough to very over Nicobar Islands till 6th night.

(iv) Damage Expected over Andaman Islands:

Minor damage to loose / unsecured structures and some breaches in Kutcha road due to flooding. Minor damage to Banana trees and near coastal agriculture due to salt spray. Damage to ripe paddy crops and minor damage to Kutcha embankments.

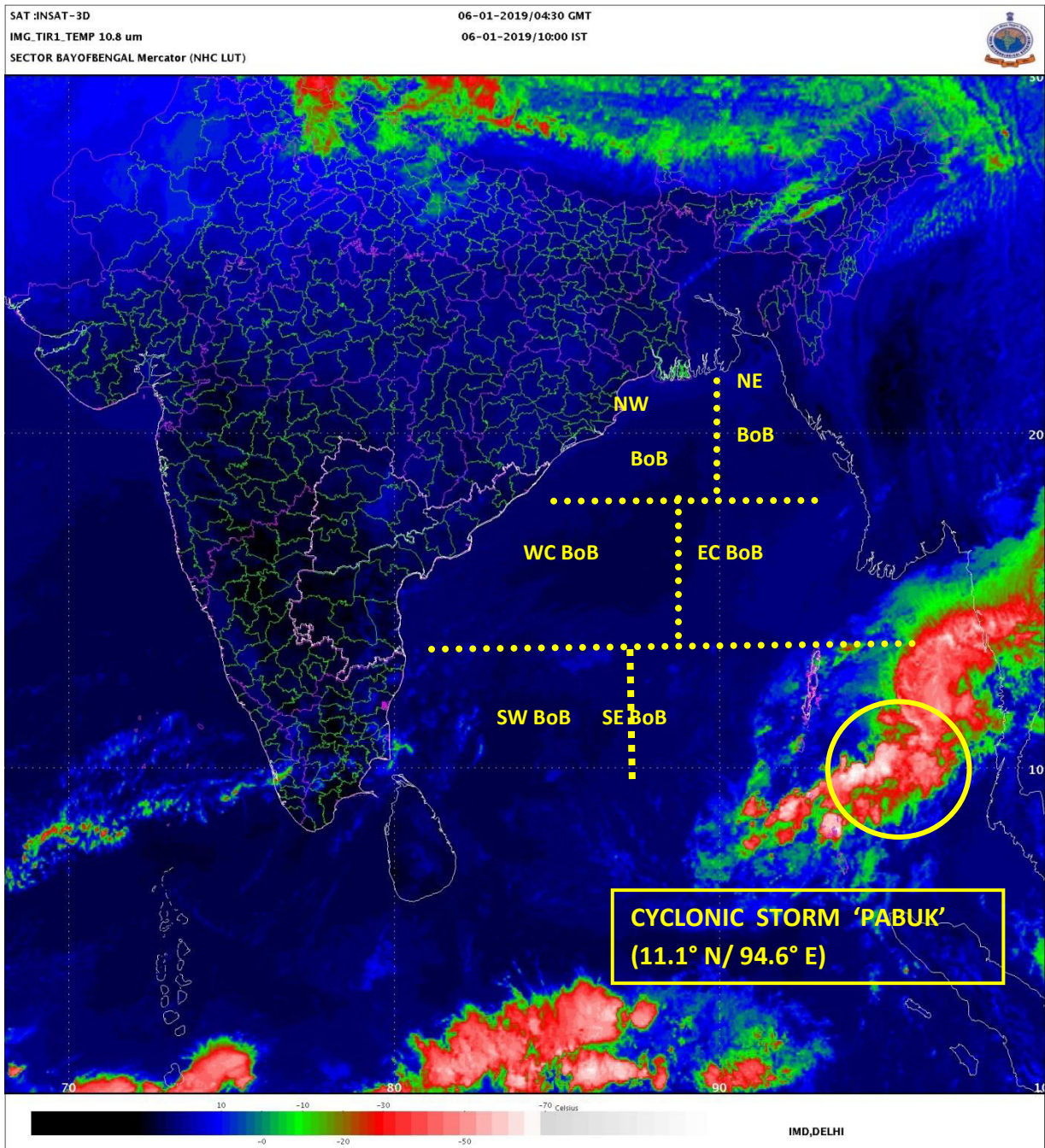
(v) Action suggested

- Total suspension of fishing operation over Andaman Sea and adjoining southeast and eastcentral Bay of Bengal till 7th January.
- Fishermen are advised not to venture into Andaman Sea and adjoining southeast and eastcentral Bay of Bengal during the same period.

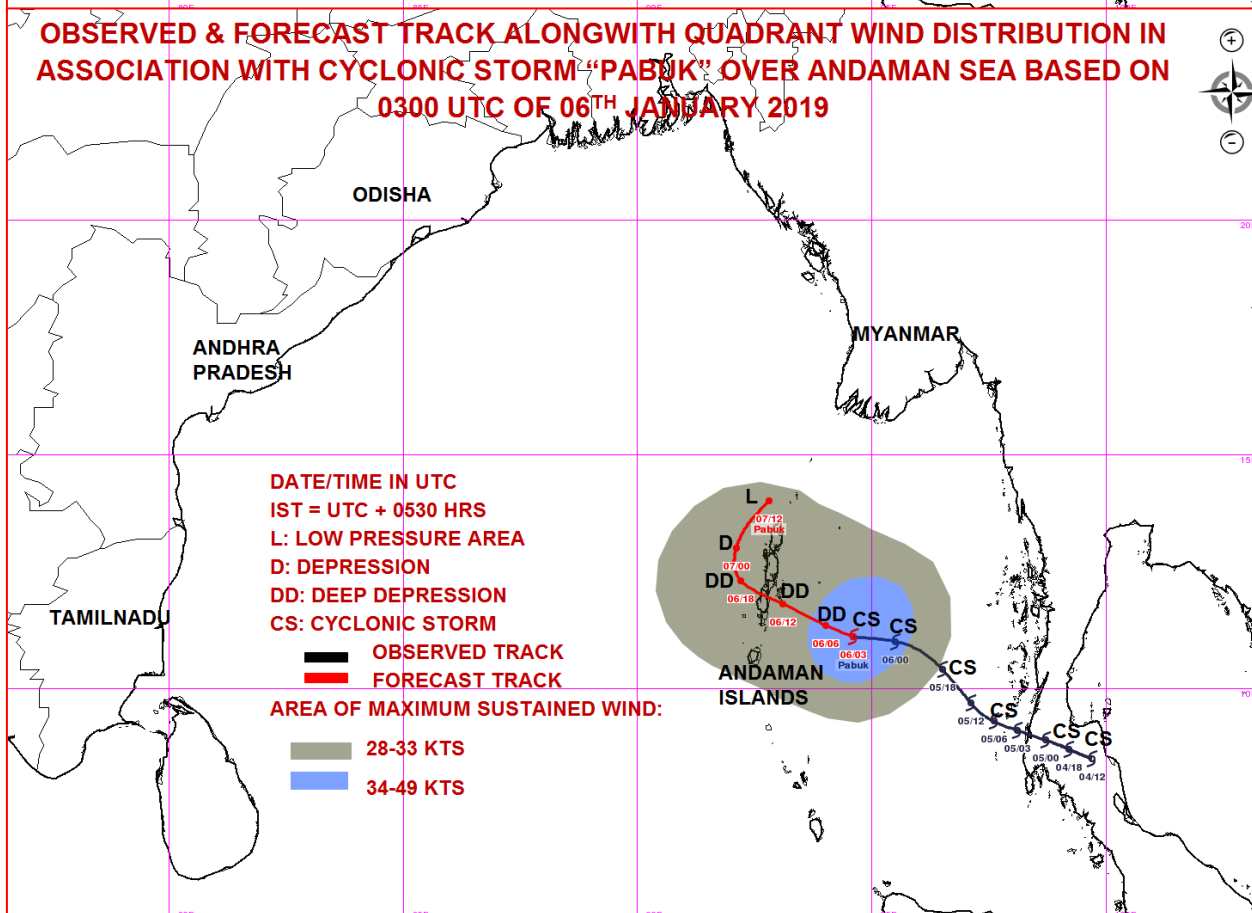
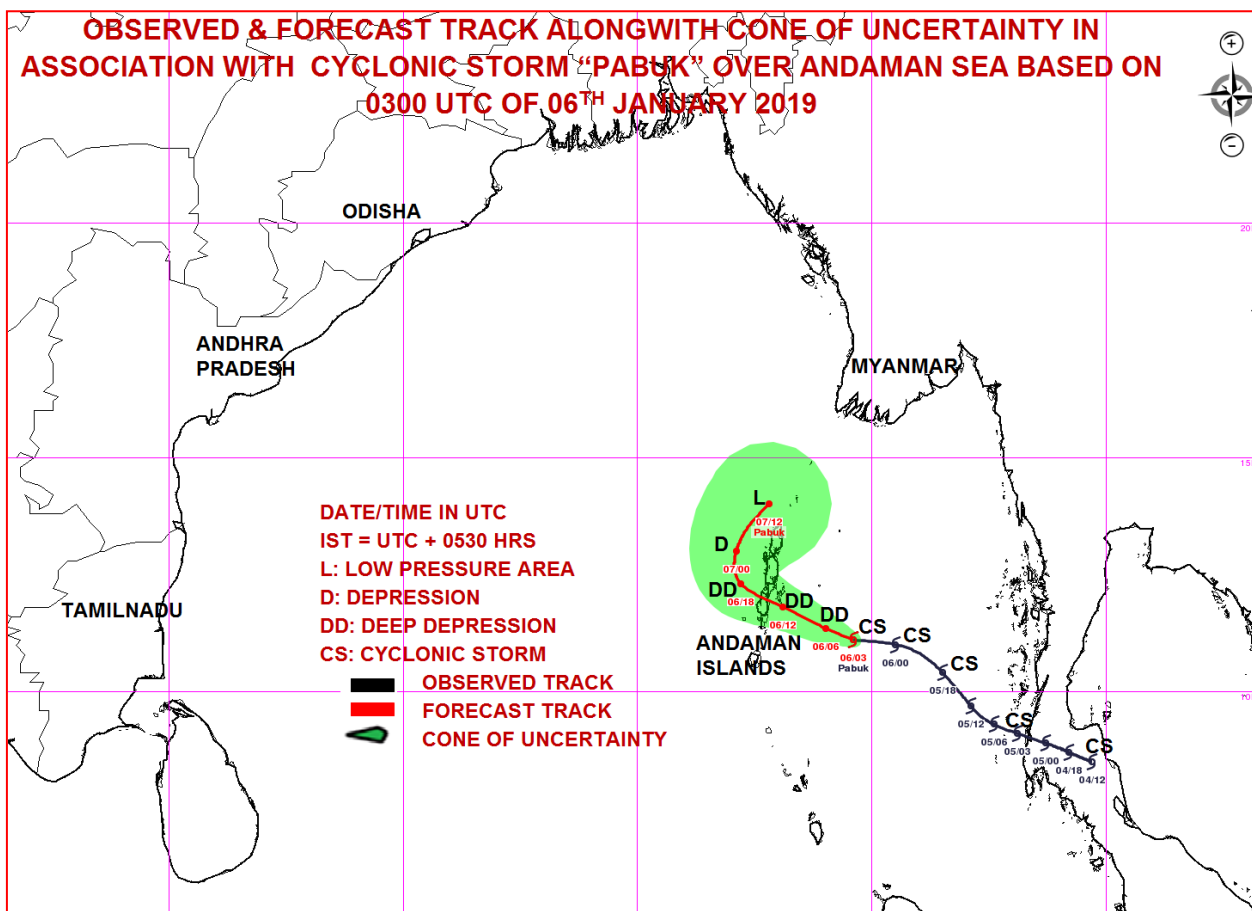
The next bulletin will be issued at 1430 hrs IST of 06th January, 2019.

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

Copy to: CRS, Pune/ ACWC Kolkata/ Chennai/ CWC Bhubaneswar/CWC Visakhapatnam/ MO Port Blair



Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
Rainfall amount (mm): Heavy rain: 64.5 – 115.5, Very heavy rain: 115.6 – 204.4, Extremely heavy rain: 204.5 or more.



Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
Rainfall amount (mm): Heavy rain: 64.5 – 115.5, Very heavy rain: 115.6 – 204.4, Extremely heavy rain: 204.5 or more.



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

BULLETIN NO. : 17 (BOB/01/2019)

TIME OF ISSUE: 1330 HOURS IST

DATED: 06.01.2019

FROM: INDIA METEOROLOGICAL DEPARTMENT (FAX NO. 24643965/24699216/24623220)

TO: CONTROL ROOM, NDM, MINISTRY OF HOME AFFAIRS (FAX.NO. 23093750)

CONTROL ROOM NDMA (FAX.NO. 26701729)

CABINET SECRETARIAT (FAX.NO.23012284, 23018638)

PS TO HON'BLE MINISTER FOR S & T AND EARTH SCIENCES (FAX NO.23316745)

SECRETARY, MOES, (FAX NO. 24629777)

H.Q. (INTEGRATED DEFENCE STAFF AND CDS) (FAX NO. 23005137/23005147)

DIRECTOR GENERAL, DOORDARSHAN (23385843)

DIRECTOR GENERAL, AIR (23421105, 23421219)

PIB MOES (FAX NO. 23389042)

UNI (FAX NO. 23355841)

D.G. NATIONAL DISASTER RESPONSE FORCE (NDRF) (FAX NO. 26105912)

DIRECTOR, PUNCTUALITY, INDIAN RAILWAYS (FAX NO. 23388503)

CHIEF SECRETARY, GOVT. OF ODISHA (FAX NO. 0674 -2536660)

CHIEF SECRETARY, ANDHRA PRADESH (FAX NO. 0863-2441029)

CHIEF SECRETARY, TAMIL NADU (FAX NO. 044-25672304)

CHIEF SECRETARY, ANDAMAN & NICOBAR ISLANDS (FAX NO. 03192- 232656)

CHIEF SECRETARY, WEST BENGAL (FAX NO. 033-22144328)

CHIEF SECRETARY, PUDUCHERRY (FAX NO. 0413-2337575)

Sub: Cyclonic Storm 'PABUK' weakened into deep depression over Andaman Sea:

The cyclonic storm '**PABUK**' over Andaman Sea moved west-northwestwards with a speed of 27 kmph during past 06 hours and weakened into a deep depression. It lay centered at 1130 hours IST of today, the 06th January, 2019 over Andaman Sea near latitude 11.2°N and longitude 94.0°E, about 150 km east-southeast of Port Blair. The system is very likely to weaken further into a depression during next 24 hours.

It is very likely to continue to move west-northwestwards and cross Andaman Islands by late evening/tonight as a deep depression with a wind speed of 55-65 kmph gusting to 75 kmph. Thereafter, it is very likely to move north-northwestwards and then recurve northeastwards towards Myanmar coast and weaken gradually.

Forecast track and intensity are given in the following table:

Date/Time(IST)	Position (Lat.°N/ long.°E)	Maximum sustained surface wind speed (Kmph)	Category of cyclonic disturbance
06.01.19/1130	11.2/94.0	55-65 gusting to 75	Deep Depression
06.01.19/1730	11.7/93.1	55-65 gusting to 75	Deep Depression
06.01.19/2330	12.3/92.2	50-60 gusting to 70	Deep Depression
07.01.19/0530	13.0/92.1	40-50 gusting to 60	Depression
07.01.19/1130	13.5/92.4	35-45 gusting to 55	Depression
07.01.19/1730	14.0/92.8	25-35 gusting to 45	Well marked low

Warnings:

(i) Heavy rainfall warning

Rainfall at most places with heavy to very heavy rainfall at a few places on today, the 6th January, 2019 over Andaman & Nicobar Islands and at heavy rainfall isolated places on 7th over Andaman Islands.

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

Rainfall amount (mm): Heavy rain: 64.5 – 115.5, Very heavy rain: 115.6 – 204.4, Extremely heavy rain: 204.5 or more.

(ii) Wind warning

- Squally wind speed 55-65 kmph gusting to 75 kmph very likely to prevail over southeast Bay of Bengal, Andaman Islands and adjoining Andaman Sea & eastcentral Bay of Bengal till today, the 6th January 2019 night and 40-50 kmph gusting to 60 kmph over eastcentral and adjoining southeast Bay of Bengal by 7th morning.
- Squally wind speed reaching 40-50 kmph gusting to 60 kmph is likely to prevail over Nicobar Islands till today, the 6th January 2019 night.

(iii) Sea condition

- Sea conditions very likely to be very rough over southeast Bay of Bengal, around Andaman Islands & adjoining Andaman Sea and eastcentral Bay of Bengal till today, the 6th January 2019 night and rough to very rough over eastcentral and adjoining southeast Bay of Bengal by 7th morning and improve thereafter.
- The sea condition will be rough to very rough around Nicobar Islands till 6th night.

(iv) Damage Expected over Andaman Islands:

Minor damage to loose/unsecured structures and some breaches in Kutcha road due to flooding. Minor damage to Banana trees and near coastal agriculture due to salt spray. Damage to ripe paddy crops and minor damage to Kutcha embankments.

(v) Action suggested

- Total suspension of fishing operation over Andaman Sea and adjoining southeast and eastcentral Bay of Bengal till 7th January.
- Fishermen are advised not to venture into Andaman Sea and adjoining southeast and eastcentral Bay of Bengal during the same period.

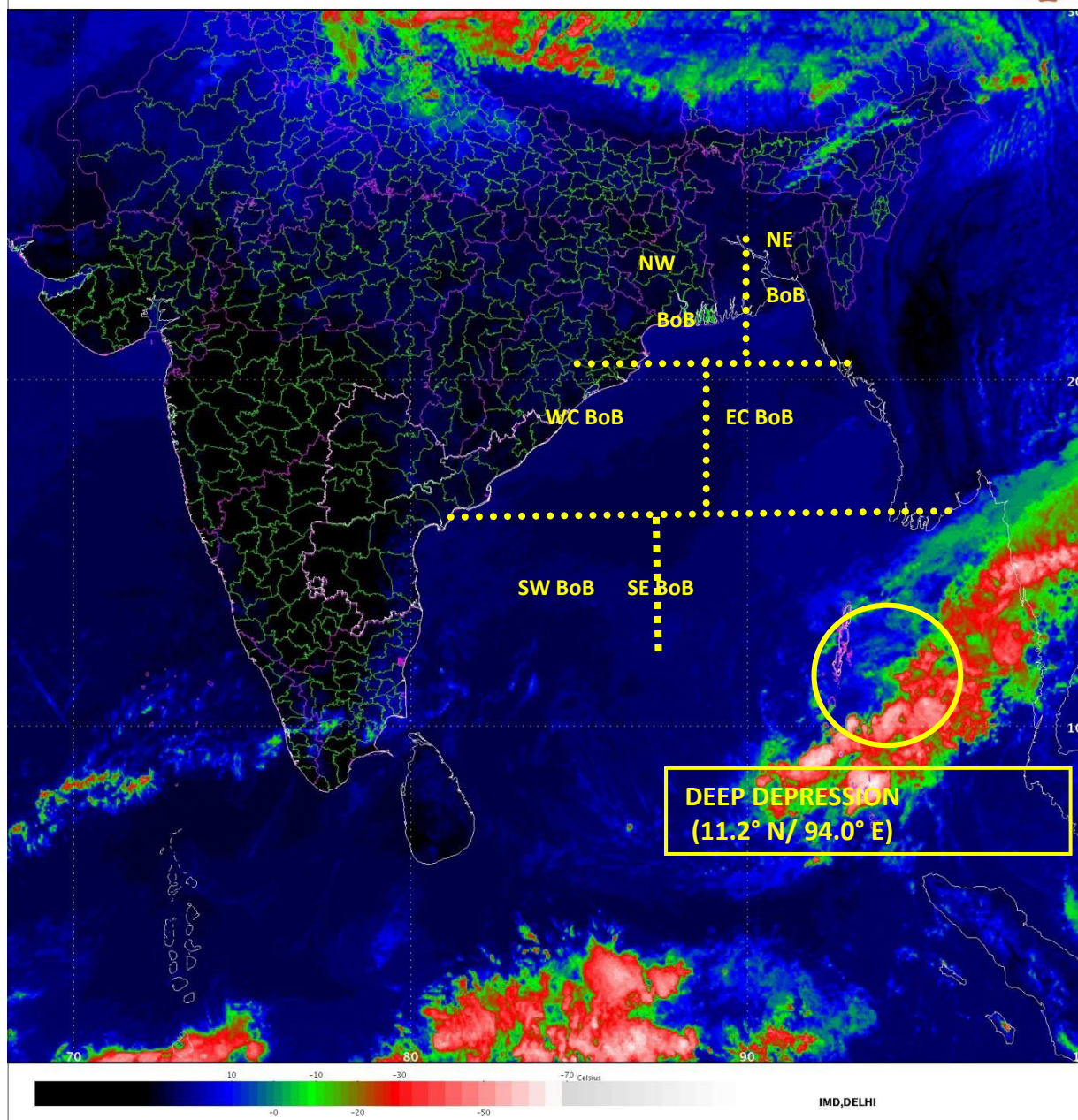
The next bulletin will be issued at 1730 hrs IST of 06th January, 2019.

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

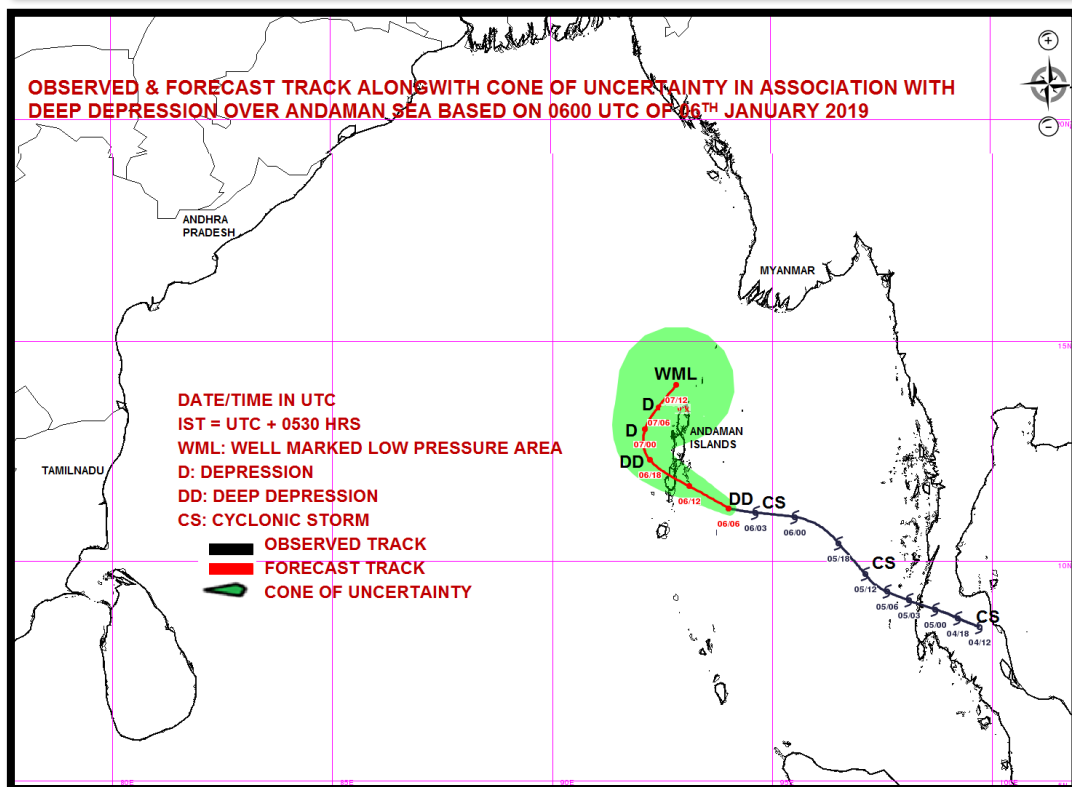
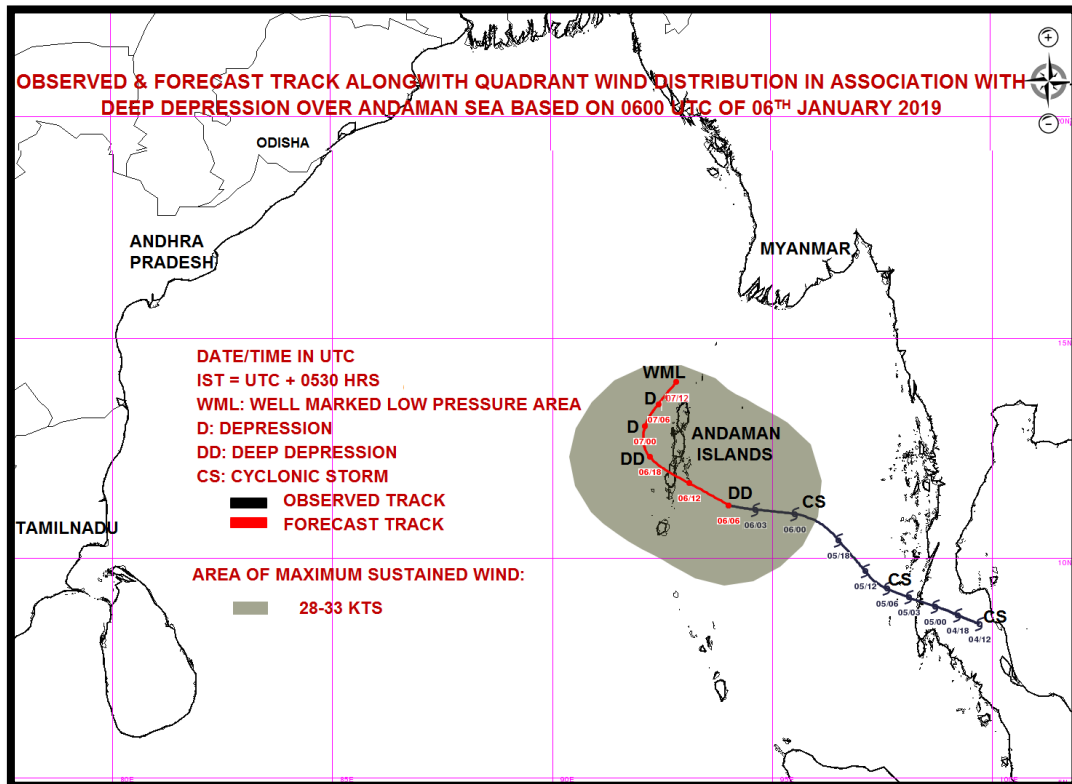
Copy to: CRS, Pune/ ACWC Kolkata/ Chennai/ CWC Bhubaneswar/CWC Visakhapatnam/ MO Port Blair

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

06-01-2019/06:30 GMT
06-01-2019/12:00 IST



Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
Rainfall amount (mm): Heavy rain: 64.5 – 115.5, Very heavy rain: 115.6 – 204.4, Extremely heavy rain: 204.5 or more.



Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
Rainfall amount (mm): Heavy rain: 64.5 – 115.5, Very heavy rain: 115.6 – 204.4, Extremely heavy rain: 204.5 or more.



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

BULLETIN NO. : 18 (BOB/01/2019)

TIME OF ISSUE: 1630 HOURS IST

DATED: 06.01.2019

FROM: INDIA METEOROLOGICAL DEPARTMENT (FAX NO. 24643965/24699216/24623220)

TO: CONTROL ROOM, NDM, MINISTRY OF HOME AFFAIRS (FAX.NO. 23093750)

CONTROL ROOM NDMA (FAX.NO. 26701729)

CABINET SECRETARIAT (FAX.NO.23012284, 23018638)

PS TO HON'BLE MINISTER FOR S & T AND EARTH SCIENCES (FAX NO.23316745)

SECRETARY, MOES, (FAX NO. 24629777)

H.Q. (INTEGRATED DEFENCE STAFF AND CDS) (FAX NO. 23005137/23005147)

DIRECTOR GENERAL, DOORDARSHAN (23385843)

DIRECTOR GENERAL, AIR (23421105, 23421219)

PIB MOES (FAX NO. 23389042)

UNI (FAX NO. 23355841)

D.G. NATIONAL DISASTER RESPONSE FORCE (NDRF) (FAX NO. 26105912)

DIRECTOR, PUNCTUALITY, INDIAN RAILWAYS (FAX NO. 23388503)

CHIEF SECRETARY, GOVT. OF ODISHA (FAX NO. 0674 -2536660)

CHIEF SECRETARY, ANDHRA PRADESH (FAX NO. 0863-2441029)

CHIEF SECRETARY, TAMIL NADU (FAX NO. 044-25672304)

CHIEF SECRETARY, ANDAMAN & NICOBAR ISLANDS (FAX NO. 03192- 232656)

CHIEF SECRETARY, WEST BENGAL (FAX NO. 033-22144328)

CHIEF SECRETARY, PUDUCHERRY (FAX NO. 0413-2337575)

Sub: Deep depression over Andaman Sea:

The deep depression over Andaman Sea moved west-northwestwards with a speed of 24 kmph during past 06 hours and lay centered at 1430 hours IST of today, the 06th January, 2019 over Andaman Sea near latitude 11.4°N and longitude 93.3°E, about 70 km east-southeast of Port Blair. The system is very likely to weaken into a depression during next 12 hours.

It is very likely to continue to move west-northwestwards and cross Andaman Islands by late evening as a deep depression with a wind speed of 55-65 kmph gusting to 75 kmph. Thereafter, it is very likely to move north-northwestwards and then recurve northeastwards towards Myanmar coast and weaken gradually.

Forecast track and intensity are given in the following table:

Date/Time(IST)	Position (Lat.°N/ long.°E)	Maximum sustained surface wind speed (Kmph)	Category of cyclonic disturbance
06.01.19/1430	11.4/93.3	55-65 gusting to 75	Deep Depression
06.01.19/1730	11.7/92.9	55-65 gusting to 75	Deep Depression
06.01.19/2330	12.3/92.2	50-60 gusting to 70	Deep Depression
07.01.19/0530	13.0/92.1	40-50 gusting to 60	Depression
07.01.19/1130	13.5/92.4	35-45 gusting to 55	Depression
07.01.19/1730	14.0/92.8	25-35 gusting to 45	Well marked low

Warnings:

(i) Heavy rainfall warning

Rainfall at most places with heavy to very heavy rainfall at a few places on today, the 6th January, 2019 over Andaman & Nicobar Islands and at heavy rainfall isolated places on 7th over Andaman Islands.

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

Rainfall amount (mm): Heavy rain: 64.5 – 115.5, Very heavy rain: 115.6 – 204.4, Extremely heavy rain: 204.5 or more.

(ii) Wind warning

- Squally wind speed 55-65 kmph gusting to 75 kmph very likely to prevail over southeast Bay of Bengal, Andaman Islands and adjoining Andaman Sea & eastcentral Bay of Bengal till today, the 6th January 2019 night and 40-50 kmph gusting to 60 kmph over eastcentral and adjoining southeast Bay of Bengal by 7th morning.
- Squally wind speed reaching 40-50 kmph gusting to 60 kmph is likely to prevail over Nicobar Islands till today, the 6th January 2019 night.

(iii) Sea condition

- Sea conditions very likely to be very rough over southeast Bay of Bengal, around Andaman Islands & adjoining Andaman Sea and eastcentral Bay of Bengal till today, the 6th January 2019 night and rough to very rough over eastcentral and adjoining southeast Bay of Bengal by 7th morning and improve thereafter.
- The sea condition will be rough to very rough around Nicobar Islands till 6th night.

(iv) Damage Expected over Andaman Islands:

Minor damage to loose/unsecured structures and some breaches in Kutcha road due to flooding. Minor damage to Banana trees and near coastal agriculture due to salt spray. Damage to ripe paddy crops and minor damage to Kutcha embankments.

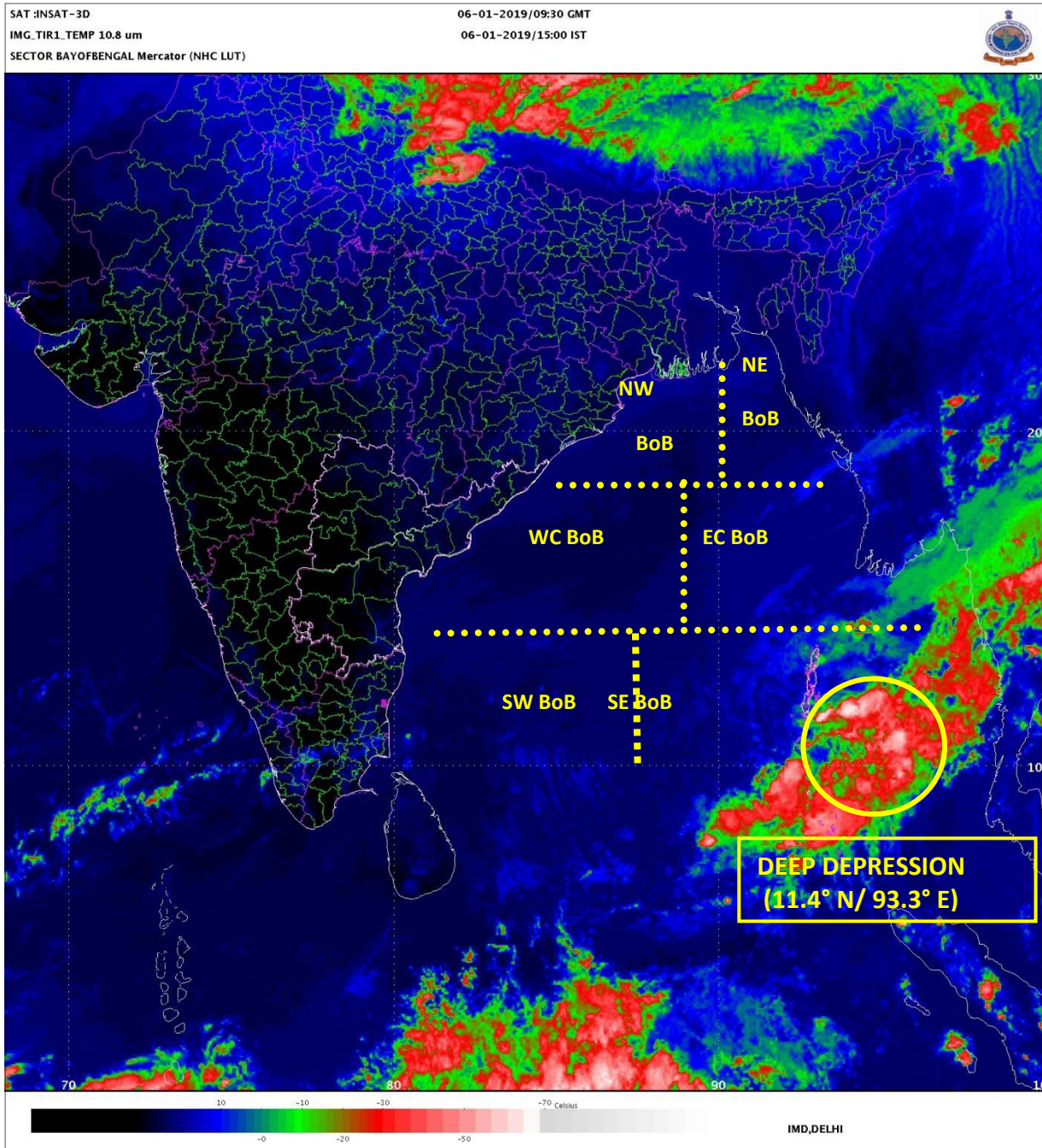
(v) Action suggested

- Total suspension of fishing operation over Andaman Sea and adjoining southeast and eastcentral Bay of Bengal till 7th January.
- Fishermen are advised not to venture into Andaman Sea and adjoining southeast and eastcentral Bay of Bengal during the same period.

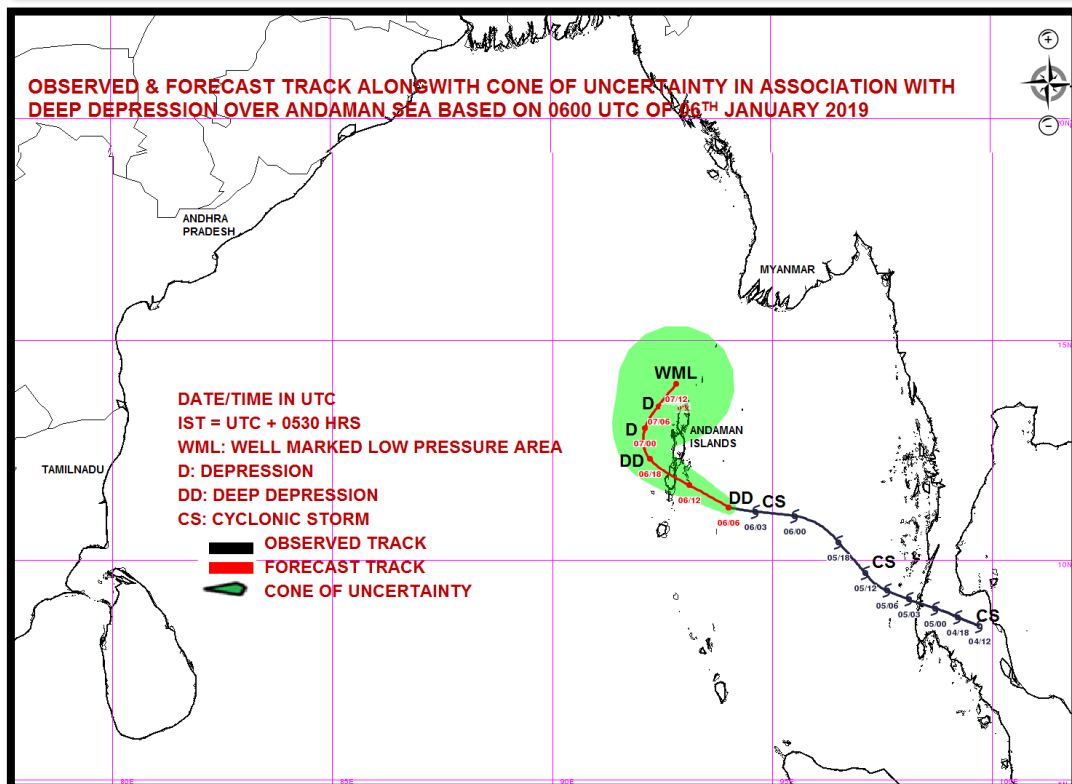
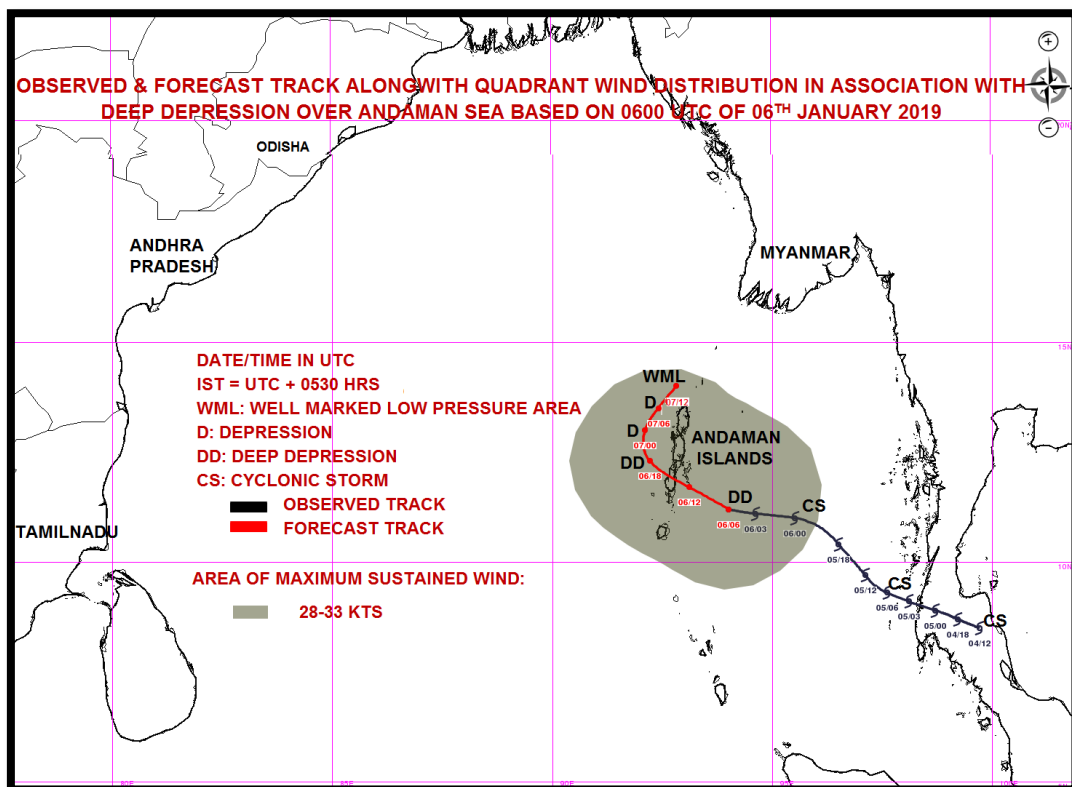
The next bulletin will be issued at 2030 hrs IST of 06th January, 2019.

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

Copy to: CRS, Pune/ ACWC Kolkata/ Chennai/ CWC Bhubaneswar/CWC Visakhapatnam/ MO Port Blair



Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
Rainfall amount (mm): Heavy rain: 64.5 – 115.5, Very heavy rain: 115.6 – 204.4, Extremely heavy rain: 204.5 or more.



Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
Rainfall amount (mm): Heavy rain: 64.5 – 115.5, Very heavy rain: 115.6 – 204.4, Extremely heavy rain: 204.5 or more.



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

BULLETIN NO. : 19 (BOB/01/2019)

TIME OF ISSUE: 2000 HOURS IST

DATED: 06.01.2019

FROM: INDIA METEOROLOGICAL DEPARTMENT (FAX NO. 24643965/24699216/24623220)

TO: CONTROL ROOM, NDM, MINISTRY OF HOME AFFAIRS (FAX.NO. 23093750)

CONTROL ROOM NDMA (FAX.NO. 26701729)

CABINET SECRETARIAT (FAX.NO.23012284, 23018638)

PS TO HON'BLE MINISTER FOR S & T AND EARTH SCIENCES (FAX NO.23316745)

SECRETARY, MOES, (FAX NO. 24629777)

H.Q. (INTEGRATED DEFENCE STAFF AND CDS) (FAX NO. 23005137/23005147)

DIRECTOR GENERAL, DOORDARSHAN (23385843)

DIRECTOR GENERAL, AIR (23421105, 23421219)

PIB MOES (FAX NO. 23389042)

UNI (FAX NO. 23355841)

D.G. NATIONAL DISASTER RESPONSE FORCE (NDRF) (FAX NO. 26105912)

DIRECTOR, PUNCTUALITY, INDIAN RAILWAYS (FAX NO. 23388503)

CHIEF SECRETARY, GOVT. OF ODISHA (FAX NO. 0674 -2536660)

CHIEF SECRETARY, ANDHRA PRADESH (FAX NO. 0863-2441029)

CHIEF SECRETARY, TAMIL NADU (FAX NO. 044-25672304)

CHIEF SECRETARY, ANDAMAN & NICOBAR ISLANDS (FAX NO. 03192- 232656)

CHIEF SECRETARY, WEST BENGAL (FAX NO. 033-22144328)

CHIEF SECRETARY, PUDUCHERRY (FAX NO. 0413-2337575)

Sub: Deep depression is crossing Andaman Islands:

The deep depression over Andaman Sea moved further west-northwestwards with a speed of 21 kmph during past 06 hours and lay centered at 1730 hours IST of today, the 06th January, 2019 over Andaman Sea near latitude 11.5°N and longitude 92.9°E, about 25 km southeast of Port Blair.

Latest observations indicate that the system is crossing Andaman Islands as a deep depression with a wind speed of 55-65 kmph gusting to 75 kmph close to Port Blair. Entire process of crossing the Andaman Islands will take about two hours. The system is very likely to weaken into a depression during next 12 hours. It is very likely to move north-northwestwards and then recurve northeastwards towards Myanmar coast and weaken gradually.

Forecast track and intensity are given in the following table:

Date/Time(IST)	Position (Lat.°N/ long.°E)	Maximum sustained surface wind speed (Kmph)	Category of cyclonic disturbance
06.01.19/1730	11.5/92.9	55-65 gusting to 75	Deep Depression
06.01.19/2330	12.3/92.2	50-60 gusting to 70	Deep Depression
07.01.19/0530	13.0/92.1	40-50 gusting to 60	Depression
07.01.19/1130	13.5/92.4	35-45 gusting to 55	Depression
07.01.19/1730	14.0/92.8	25-35 gusting to 45	Well marked low

Warnings:

(i) Heavy rainfall warning

Rainfall at most places with heavy to very heavy rainfall at a few places on today, the 6th January, 2019 over Andaman & Nicobar Islands and at heavy rainfall isolated places on 7th over Andaman Islands.

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

Rainfall amount (mm): Heavy rain: 64.5 – 115.5, Very heavy rain: 115.6 – 204.4, Extremely heavy rain: 204.5 or more.

(ii) Wind warning

- Squally wind speed 55-65 kmph gusting to 75 kmph very likely to prevail over southeast Bay of Bengal, Andaman Islands and adjoining Andaman Sea & eastcentral Bay of Bengal till today, the 6th January 2019 night and 40-50 kmph gusting to 60 kmph over eastcentral and adjoining southeast Bay of Bengal by 7th morning.
- Squally wind speed reaching 40-50 kmph gusting to 60 kmph is likely to prevail over Nicobar Islands till today, the 6th January 2019 night.

(iii) Sea condition

- Sea conditions very likely to be very rough over southeast Bay of Bengal, around Andaman Islands & adjoining Andaman Sea and eastcentral Bay of Bengal till today, the 6th January 2019 night and rough to very rough over eastcentral and adjoining southeast Bay of Bengal by 7th morning and improve thereafter.
- The sea condition will be rough to very rough around Nicobar Islands till 6th night.

(iv) Damage Expected over Andaman Islands:

Minor damage to loose/unsecured structures and some breaches in Kutcha road due to flooding. Minor damage to Banana trees and near coastal agriculture due to salt spray. Damage to ripe paddy crops and minor damage to Kutcha embankments.

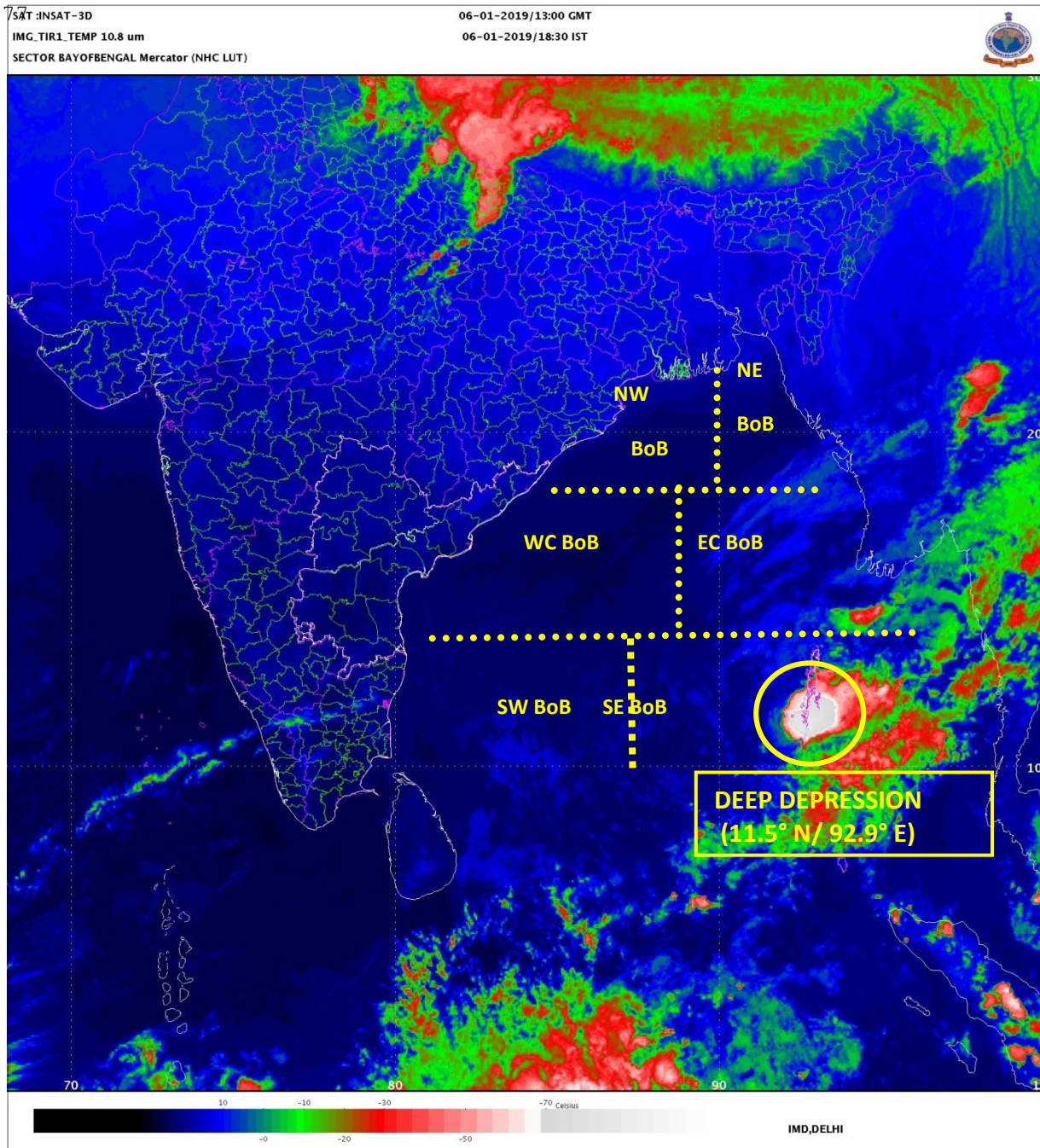
(v) Action suggested

- Total suspension of fishing operation over Andaman Sea and adjoining southeast and eastcentral Bay of Bengal till 7th January.
- Fishermen are advised not to venture into Andaman Sea and adjoining southeast and eastcentral Bay of Bengal during the same period.

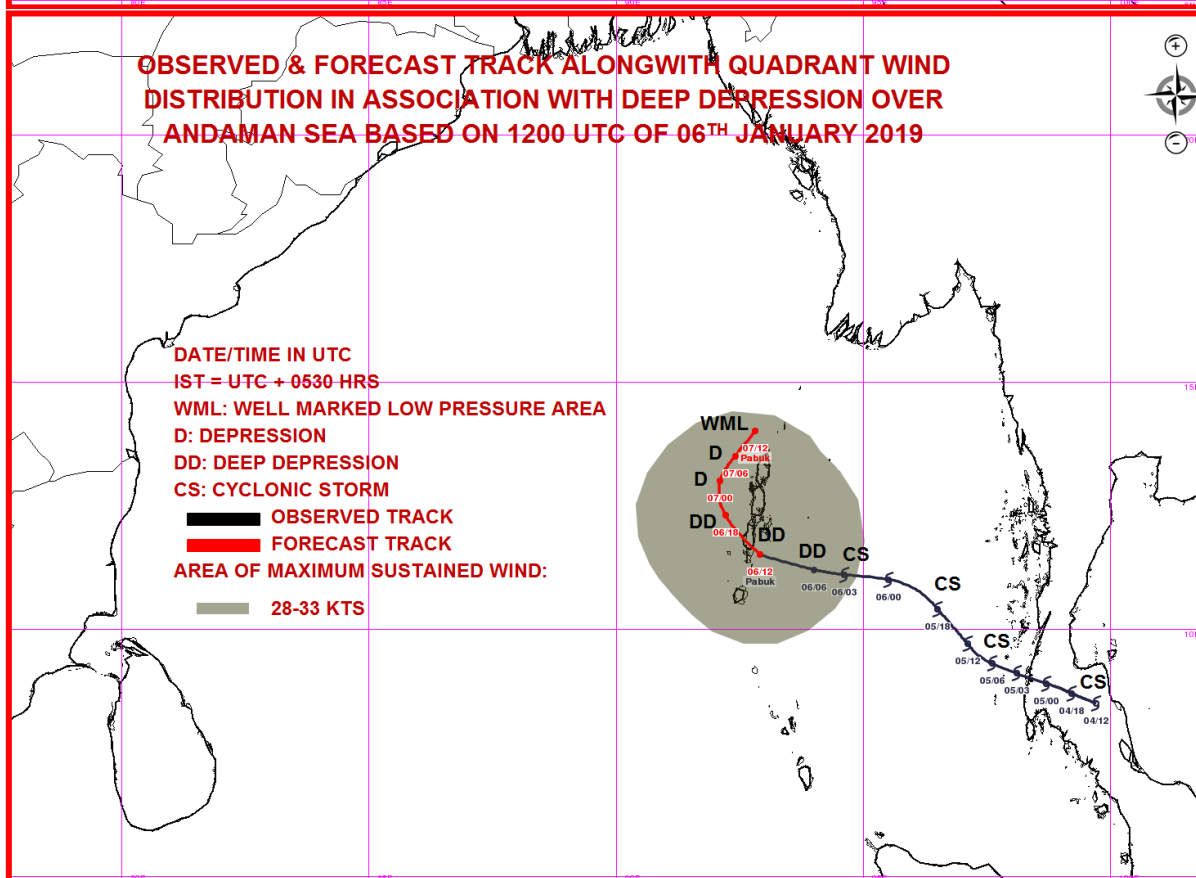
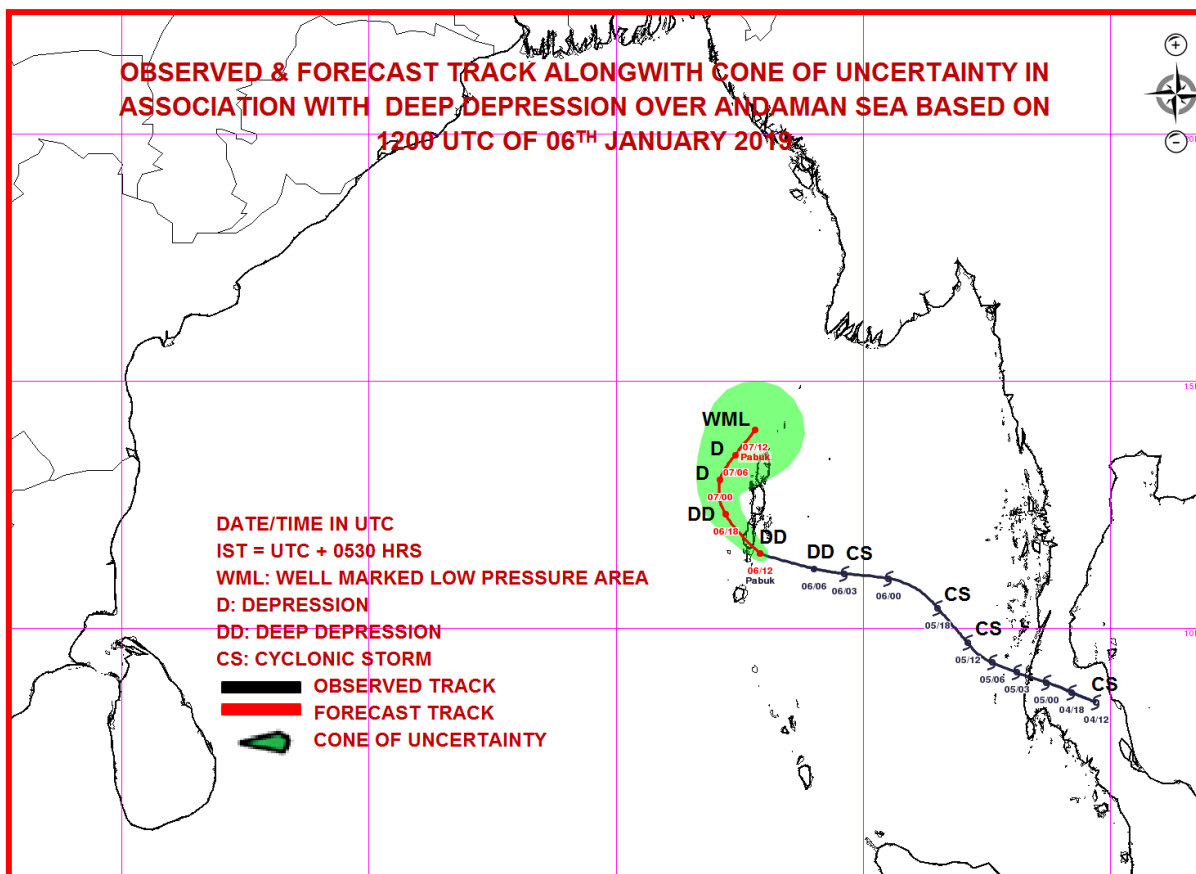
The next bulletin will be issued at 2330 hrs IST of 06th January, 2019.

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

Copy to: CRS, Pune/ ACWC Kolkata/ Chennai/ CWC Bhubaneswar/CWC Visakhapatnam/ MO Port Blair



Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
Rainfall amount (mm): Heavy rain: 64.5 – 115.5, Very heavy rain: 115.6 – 204.4, Extremely heavy rain: 204.5 or more.



Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
Rainfall amount (mm): Heavy rain: 64.5 – 115.5, Very heavy rain: 115.6 – 204.4, Extremely heavy rain: 204.5 or more.



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

BULLETIN NO. : 20 (BOB/01/2019)

TIME OF ISSUE: 2200 HOURS IST

DATED: 06.01.2019

FROM: INDIA METEOROLOGICAL DEPARTMENT (FAX NO. 24643965/24699216/24623220)

TO: CONTROL ROOM, NDM, MINISTRY OF HOME AFFAIRS (FAX.NO. 23093750)

CONTROL ROOM NDMA (FAX.NO. 26701729)

CABINET SECRETARIAT (FAX.NO.23012284, 23018638)

PS TO HON'BLE MINISTER FOR S & T AND EARTH SCIENCES (FAX NO.23316745)

SECRETARY, MOES, (FAX NO. 24629777)

H.Q. (INTEGRATED DEFENCE STAFF AND CDS) (FAX NO. 23005137/23005147)

DIRECTOR GENERAL, DOORDARSHAN (23385843)

DIRECTOR GENERAL, AIR (23421105, 23421219)

PIB MOES (FAX NO. 23389042)

UNI (FAX NO. 23355841)

D.G. NATIONAL DISASTER RESPONSE FORCE (NDRF) (FAX NO. 26105912)

DIRECTOR, PUNCTUALITY, INDIAN RAILWAYS (FAX NO. 23388503)

CHIEF SECRETARY, GOVT. OF ODISHA (FAX NO. 0674 -2536660)

CHIEF SECRETARY, ANDHRA PRADESH (FAX NO. 0863-2441029)

CHIEF SECRETARY, TAMIL NADU (FAX NO. 044-25672304)

CHIEF SECRETARY, ANDAMAN & NICOBAR ISLANDS (FAX NO. 03192- 232656)

CHIEF SECRETARY, WEST BENGAL (FAX NO. 033-22144328)

CHIEF SECRETARY, PUDUCHERRY (FAX NO. 0413-2337575)

Sub: Deep depression crossed Andaman Islands close to Port Blair:

The deep depression over Andaman Sea moved further west-northwestwards with a speed of 13 kmph during past 06 hours, crossed Andaman Islands as a deep depression with a wind speed of 55-65 kmph gusting to 75 kmph near latitude 11.6°N and longitude 92.7°E, close to south of Port Blair between 1830 and 2030 hours IST of today, the 06th January, 2019. It lay centered at 2030 hours IST of today, the 06th January, 2019 over Southeast Bay of Bengal near latitude 11.6°N and longitude 92.6°E, about 15 km southwest of Port Blair. The system is very likely to weaken into a depression during next 12 hours. It is very likely to move northwestwards for some more time and then recurve northeastwards towards Myanmar coast and weaken gradually.

Forecast track and intensity are given in the following table:

Date/Time(IST)	Position (Lat.°N/ long. °E)	Maximum sustained surface wind speed (Kmph)	Category of cyclonic disturbance
06.01.19/2030	11.6/92.6	55-65 gusting to 75	Deep Depression
06.01.19/2330	12.3/92.2	50-60 gusting to 70	Deep Depression
07.01.19/0530	13.0/92.1	40-50 gusting to 60	Depression
07.01.19/1130	13.5/92.4	35-45 gusting to 55	Depression
07.01.19/1730	14.0/92.8	25-35 gusting to 45	Well marked low

Warnings:

(i) Heavy rainfall warning

Rainfall at most places with heavy to very heavy rainfall at a few places over Andaman Islands & isolated heavy over Nicobar Islands on today, the 6th January, 2019 and at heavy rainfall isolated places on 7th over Andaman Islands.

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

Rainfall amount (mm): Heavy rain: 64.5 – 115.5, Very heavy rain: 115.6 – 204.4, Extremely heavy rain: 204.5 or more.

(ii) Wind warning

- Squally wind speed 55-65 kmph gusting to 75 kmph very likely to prevail over southeast Bay of Bengal, Andaman Islands and adjoining Andaman Sea & eastcentral Bay of Bengal till today, the 6th January 2019 night and 40-50 kmph gusting to 60 kmph over eastcentral and adjoining southeast Bay of Bengal by 7th morning.
- Squally wind speed reaching 40-50 kmph gusting to 60 kmph is likely to prevail over Nicobar Islands till today, the 6th January 2019 night.

(iii) Sea condition

- Sea conditions very likely to be very rough over southeast Bay of Bengal, around Andaman Islands & adjoining Andaman Sea and eastcentral Bay of Bengal till today, the 6th January 2019 night and rough to very rough over eastcentral and adjoining southeast Bay of Bengal by 7th morning and improve thereafter.
- The sea condition will be rough to very rough around Nicobar Islands till 6th night.

(iv) Damage Expected over Andaman Islands:

Minor damage to loose/unsecured structures and some breaches in Kutcha road due to flooding. Minor damage to Banana trees and near coastal agriculture due to salt spray. Damage to ripe paddy crops and minor damage to Kutcha embankments.

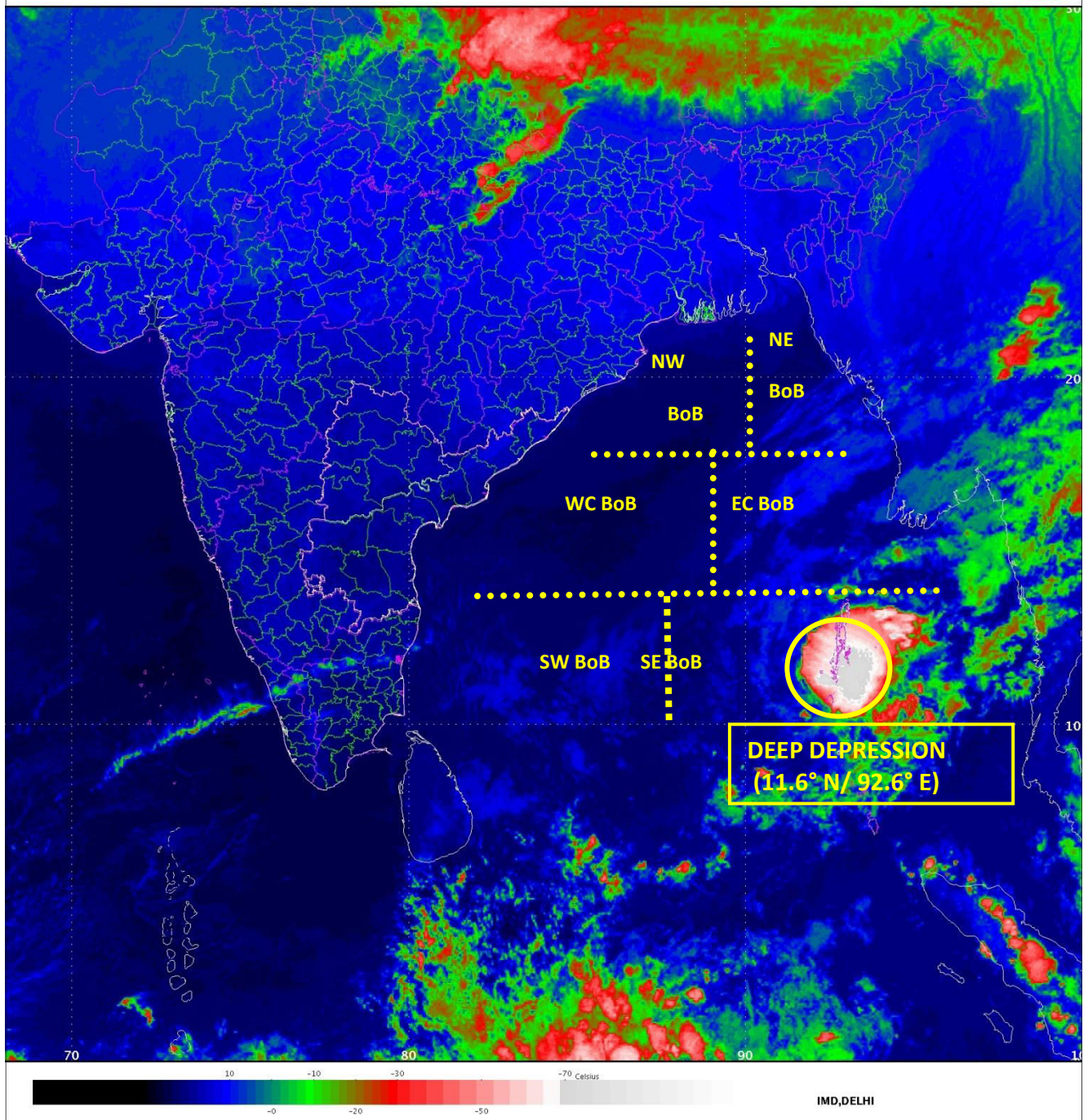
(v) Action suggested

- Total suspension of fishing operation over Andaman Sea and adjoining southeast and eastcentral Bay of Bengal till 7th January.
- Fishermen are advised not to venture into Andaman Sea and adjoining southeast and eastcentral Bay of Bengal during the same period.

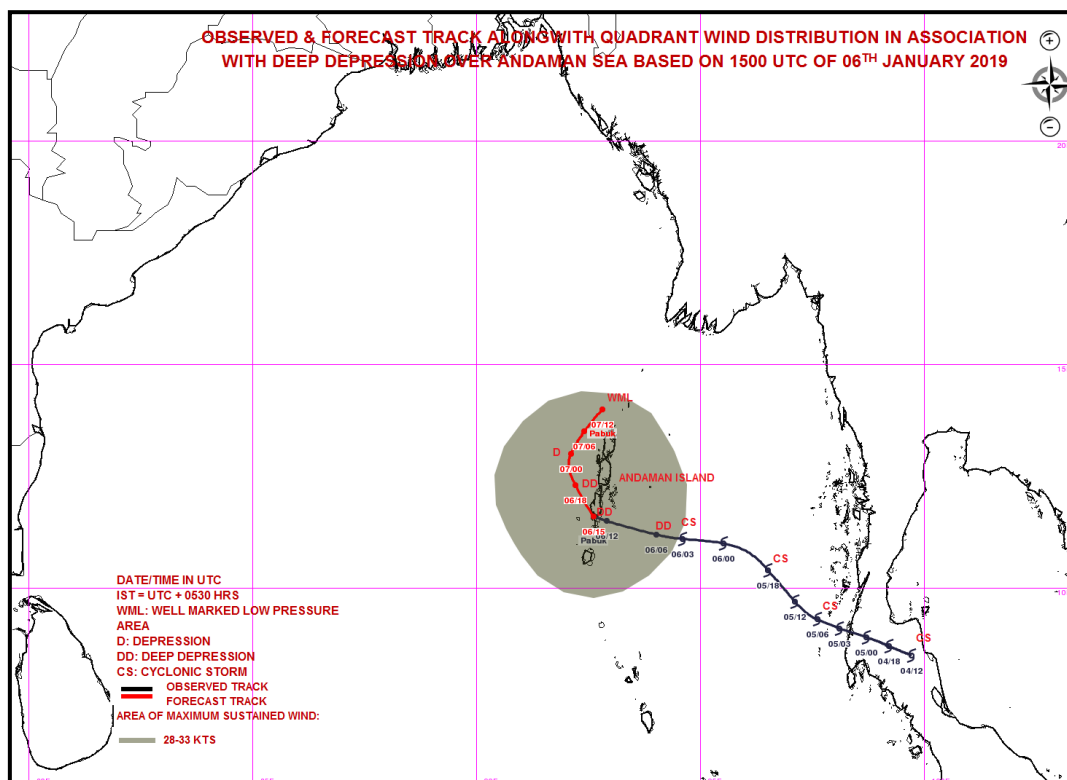
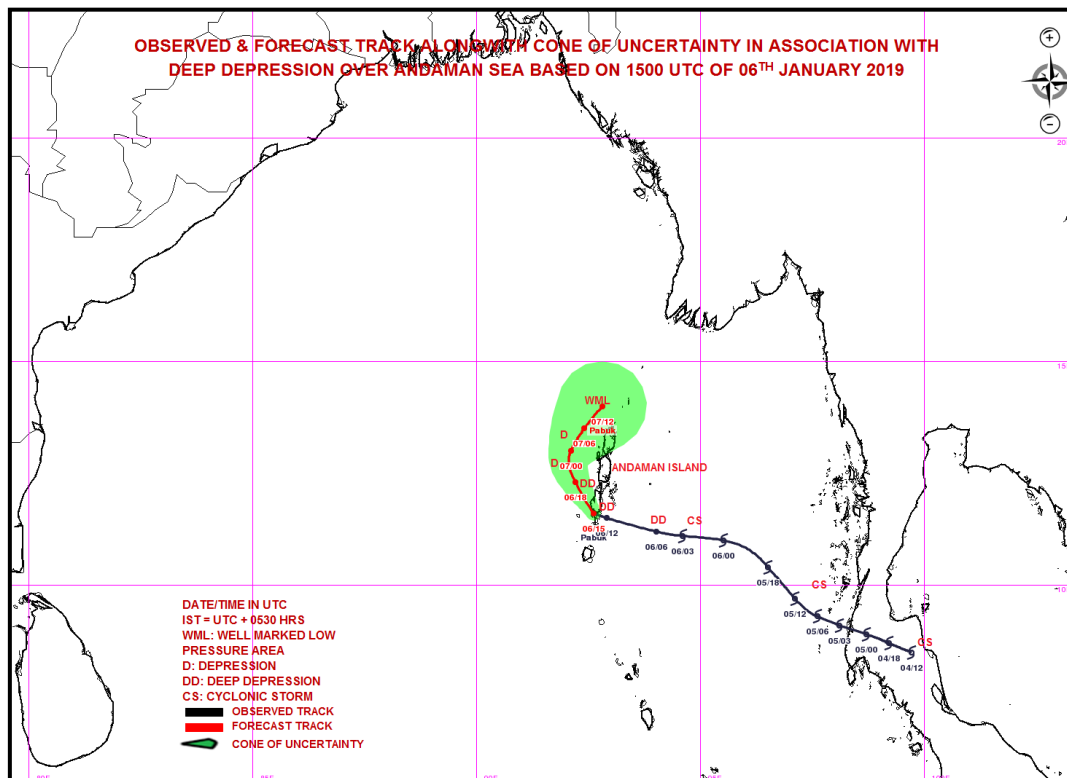
The next bulletin will be issued at 0230 hrs IST of 07th January, 2019.

(Ananda Kumar Das)
Scientist-E, RSMC, New Delhi

Copy to: CRS, Pune/ ACWC Kolkata/ Chennai/ CWC Bhubaneswar/CWC Visakhapatnam/ MO Port Blair



Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
Rainfall amount (mm): Heavy rain: 64.5 – 115.5, Very heavy rain: 115.6 – 204.4, Extremely heavy rain: 204.5 or more.



Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
Rainfall amount (mm): Heavy rain: 64.5 – 115.5, Very heavy rain: 115.6 – 204.4, Extremely heavy rain: 204.5 or more.



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

BULLETIN NO. : 21 (BOB/01/2019)

TIME OF ISSUE: 0130 HOURS IST

DATED: 07.01.2019

FROM: INDIA METEOROLOGICAL DEPARTMENT (FAX NO. 24643965/24699216/24623220)

TO: CONTROL ROOM, NDM, MINISTRY OF HOME AFFAIRS (FAX.NO. 23093750)

CONTROL ROOM NDMA (FAX.NO. 26701729)

CABINET SECRETARIAT (FAX.NO.23012284, 23018638)

PS TO HON'BLE MINISTER FOR S & T AND EARTH SCIENCES (FAX NO.23316745)

SECRETARY, MOES, (FAX NO. 24629777)

H.Q. (INTEGRATED DEFENCE STAFF AND CDS) (FAX NO. 23005137/23005147)

DIRECTOR GENERAL, DOORDARSHAN (23385843)

DIRECTOR GENERAL, AIR (23421105, 23421219)

PIB MOES (FAX NO. 23389042)

UNI (FAX NO. 23355841)

D.G. NATIONAL DISASTER RESPONSE FORCE (NDRF) (FAX NO. 26105912)

DIRECTOR, PUNCTUALITY, INDIAN RAILWAYS (FAX NO. 23388503)

CHIEF SECRETARY, GOVT. OF ODISHA (FAX NO. 0674 -2536660)

CHIEF SECRETARY, ANDHRA PRADESH (FAX NO. 0863-2441029)

CHIEF SECRETARY, TAMIL NADU (FAX NO. 044-25672304)

CHIEF SECRETARY, ANDAMAN & NICOBAR ISLANDS (FAX NO. 03192- 232656)

CHIEF SECRETARY, WEST BENGAL (FAX NO. 033-22144328)

CHIEF SECRETARY, PUDUCHERRY (FAX NO. 0413-2337575)

Sub: Deep depression over Southeast Bay of Bengal near Andaman Islands:

The deep depression over Southeast Bay of Bengal moved further northwestwards with a speed of 15 kmph during past 06 hours and lay centered at 2330 hours IST of 06th January, 2019 over Southeast Bay of Bengal close to Andaman Islands near latitude 12.0°N and longitude 92.2°E, about 65 km west-northwest of Port Blair. The system is very likely to weaken into a depression during next 12 hours. It is very likely to move northwestwards for some more time and then recurve northeastwards towards Myanmar coast and weaken gradually.

Forecast track and intensity are given in the following table:

Date/Time(IST)	Position (Lat. °N/ long. °E)	Maximum sustained surface wind speed (Kmph)	Category of cyclonic disturbance
06.01.19/2330	12.0/92.2	50-60 gusting to 70	Deep Depression
07.01.19/0530	12.6/92.0	50-60 gusting to 70	Deep Depression
07.01.19/1130	13.2/92.1	35-45 gusting to 55	Depression
07.01.19/1730	13.7/92.4	25-35 gusting to 45	Well marked low

Warnings:

(i) Heavy rainfall warning

Rainfall at most places with heavy to very heavy rainfall at a few places over Andaman Islands & isolated heavy over Nicobar Islands on 6th January, 2019 and at heavy rainfall isolated places on 7th January over Andaman Islands.

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

Rainfall amount (mm): Heavy rain: 64.5 – 115.5, Very heavy rain: 115.6 – 204.4, Extremely heavy rain: 204.5 or more.

(ii) Wind warning

Squally wind speed 55-65 kmph gusting to 75 kmph very likely to prevail over southeast Bay of Bengal, Andaman Islands and adjoining Andaman Sea & eastcentral Bay of Bengal till early morning of 7th January, 2019 and 40-50 kmph gusting to 60 kmph over eastcentral and adjoining southeast Bay of Bengal during next 12 hours.

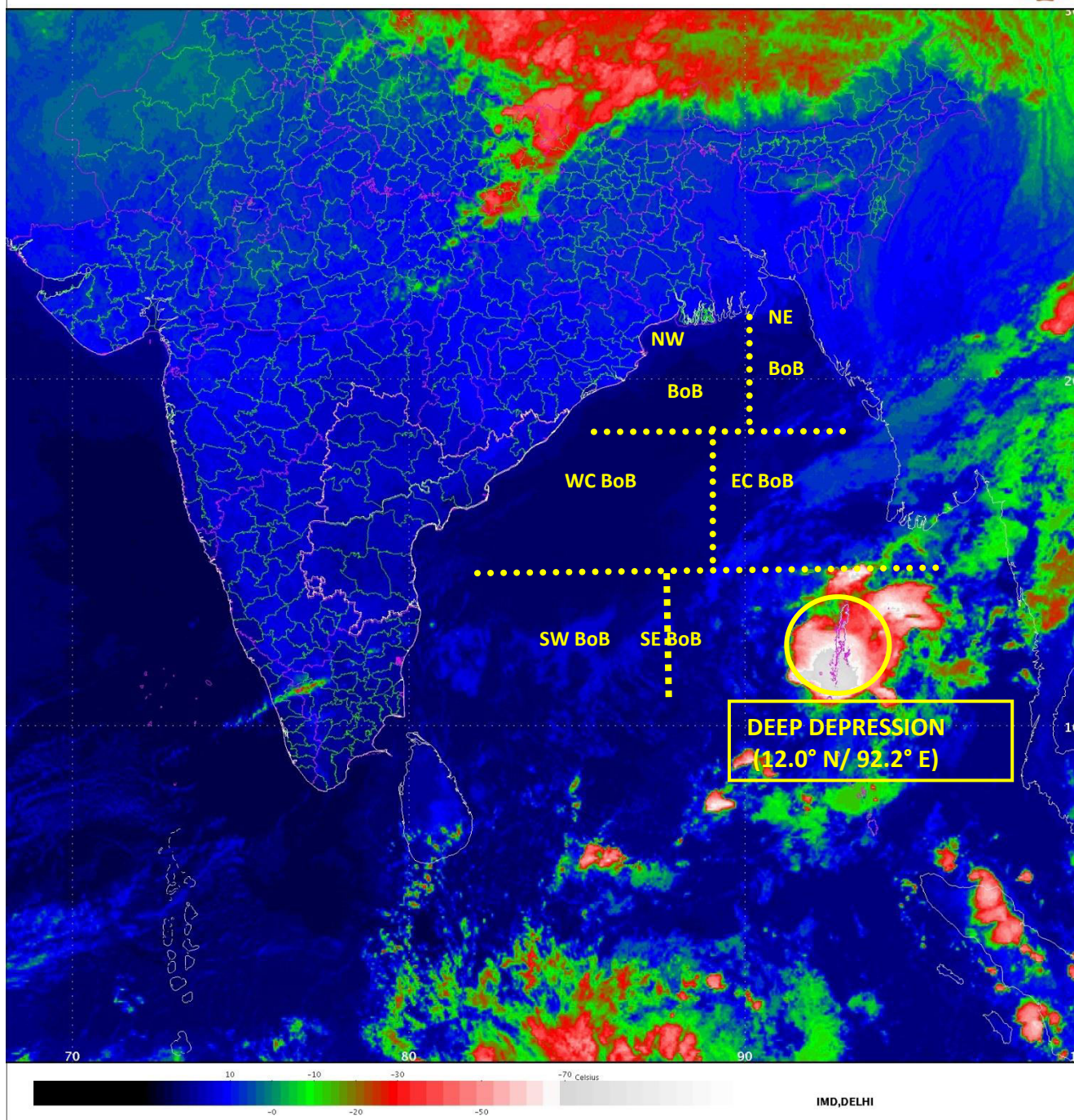
(iii) Sea condition

Sea conditions very likely to be very rough over southeast Bay of Bengal, around Andaman Islands and eastcentral Bay of Bengal till early morning of 7th January 2019 and rough to very rough over eastcentral and adjoining southeast Bay of Bengal during next 12 hours and improve thereafter.

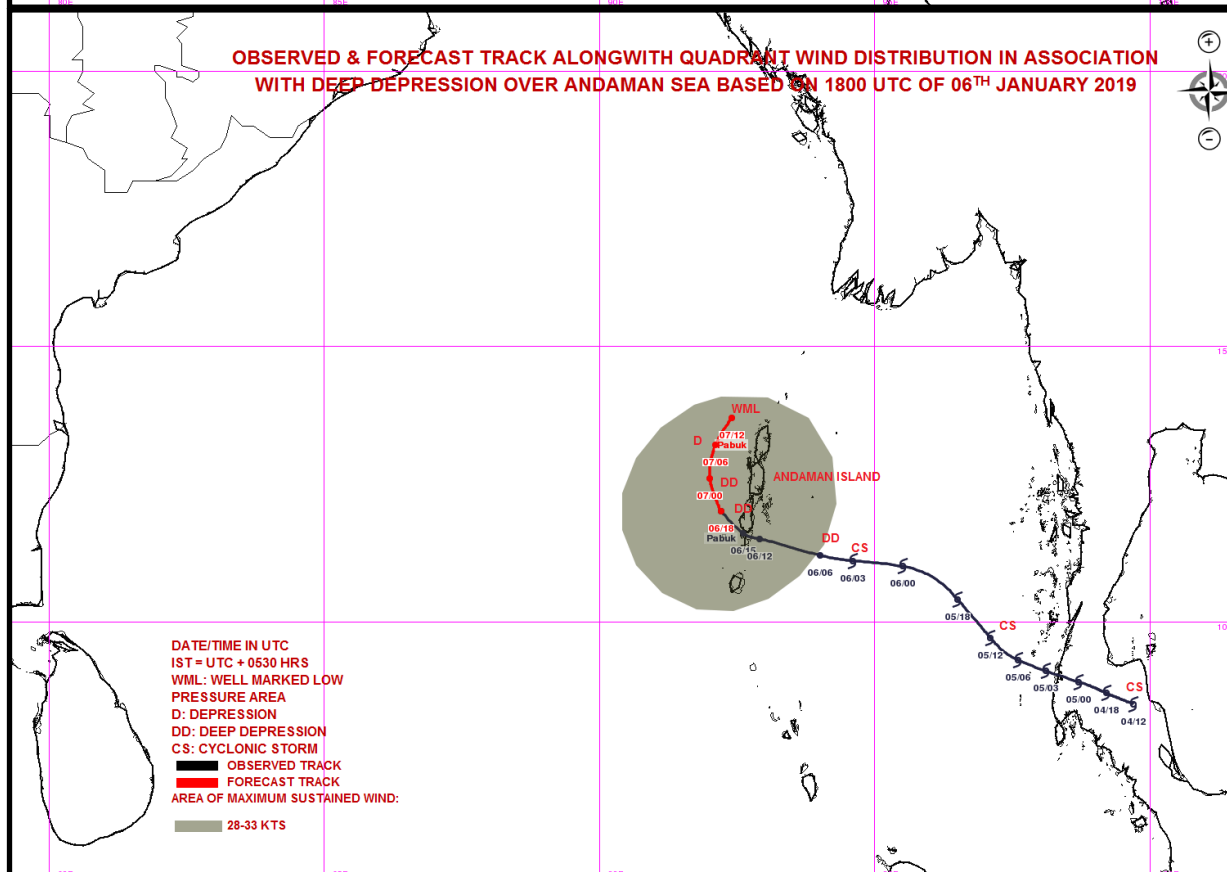
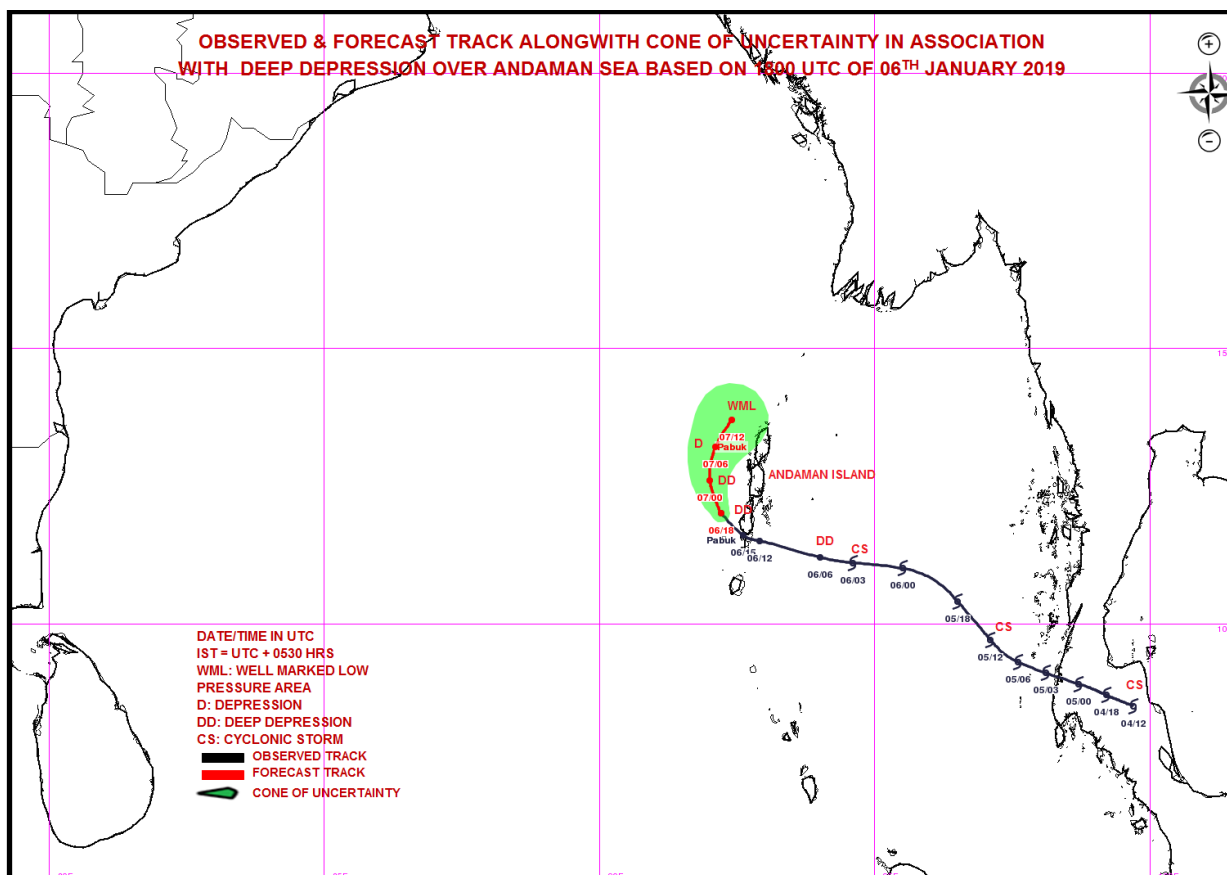
The next bulletin will be issued at 0830 hrs IST of 07th January, 2019.

(Ananda Kumar Das)
Scientist-E, RSMC, New Delhi

Copy to: CRS, Pune/ ACWC Kolkata/ Chennai/ CWC Bhubaneswar/CWC Visakhapatnam/ MO Port Blair



Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
 Rainfall amount (mm): Heavy rain: 64.5 – 115.5, Very heavy rain: 115.6 – 204.4, Extremely heavy rain: 204.5 or more.



Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
Rainfall amount (mm): Heavy rain: 64.5 – 115.5, Very heavy rain: 115.6 – 204.4, Extremely heavy rain: 204.5 or more.



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

BULLETIN NO. : 22 (BOB/01/2019)

TIME OF ISSUE: 0830 HOURS IST

DATED: 07.01.2019

FROM: INDIA METEOROLOGICAL DEPARTMENT (FAX NO. 24643965/24699216/24623220)

TO: CONTROL ROOM, NDM, MINISTRY OF HOME AFFAIRS (FAX.NO. 23093750)

CONTROL ROOM NDMA (FAX.NO. 26701729)

CABINET SECRETARIAT (FAX.NO.23012284, 23018638)

PS TO HON'BLE MINISTER FOR S & T AND EARTH SCIENCES (FAX NO.23316745)

SECRETARY, MOES, (FAX NO. 24629777)

H.Q. (INTEGRATED DEFENCE STAFF AND CDS) (FAX NO. 23005137/23005147)

DIRECTOR GENERAL, DOORDARSHAN (23385843)

DIRECTOR GENERAL, AIR (23421105, 23421219)

PIB MOES (FAX NO. 23389042)

UNI (FAX NO. 23355841)

D.G. NATIONAL DISASTER RESPONSE FORCE (NDRF) (FAX NO. 26105912)

DIRECTOR, PUNCTUALITY, INDIAN RAILWAYS (FAX NO. 23388503)

CHIEF SECRETARY, GOVT. OF ODISHA (FAX NO. 0674 -2536660)

CHIEF SECRETARY, ANDHRA PRADESH (FAX NO. 0863-2441029)

CHIEF SECRETARY, TAMIL NADU (FAX NO. 044-25672304)

CHIEF SECRETARY, ANDAMAN & NICOBAR ISLANDS (FAX NO. 03192- 232656)

CHIEF SECRETARY, WEST BENGAL (FAX NO. 033-22144328)

CHIEF SECRETARY, PUDUCHERRY (FAX NO. 0413-2337575)

Sub: Depression over Southeast and Eastcentral Bay of Bengal near Andaman Islands:

The deep depression over Southeast Bay of Bengal moved nearly northwards with a speed of 12 kmph during past 06 hours; weakened into a depression and lay centered at 0530 hours IST of 07th January, 2019 over Southeast Bay of Bengal and adjoining Eastcentral Bay of Bengal near Andaman Islands near latitude 12.6°N and longitude 92.0°E, about 130 km northwest of Port Blair. It is very likely to move northwards for some more time and then recurve northeastwards towards Myanmar coast. It is likely to weaken further into a well marked low pressure area during next 12 hours.

Forecast track and intensity are given in the following table:

Date/Time(IST)	Position (Lat.°N/ long.°E)	Maximum sustained surface wind speed (Kmph)	Category of cyclonic disturbance
07.01.19/0530	12.6/92.0	45-55 gusting to 65	Depression
07.01.19/1130	13.0/92.1	40-50 gusting to 60	Depression
07.01.19/1730	13.7/92.4	25-35 gusting to 45	Well marked low

Warnings:

(i) Heavy rainfall warning

Rainfall at most places with heavy to very heavy rainfall very likely at isolated places over Andaman Islands during next 24 hours.

(ii) Wind warning

Squally wind speed reaching 45-55 kmph gusting to 65 kmph is very likely to prevail over southeast Bay of Bengal, Andaman Islands and adjoining Andaman Sea & eastcentral Bay of Bengal during next 06 hours and 40-50 kmph gusting to 60 kmph over eastcentral Bay of Bengal and adjoining Andaman Sea during subsequent 12 hours.

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

Rainfall amount (mm): Heavy rain: 64.5 – 115.5, Very heavy rain: 115.6 – 204.4, Extremely heavy rain: 204.5 or more.

(iii) **Sea condition**

Sea conditions is very likely to be rough to very rough over southeast Bay of Bengal, around Andaman Islands during next 12 hours and rough to very rough over eastcentral Bay of Bengal and adjoining Andaman Sea during next 24 hours.

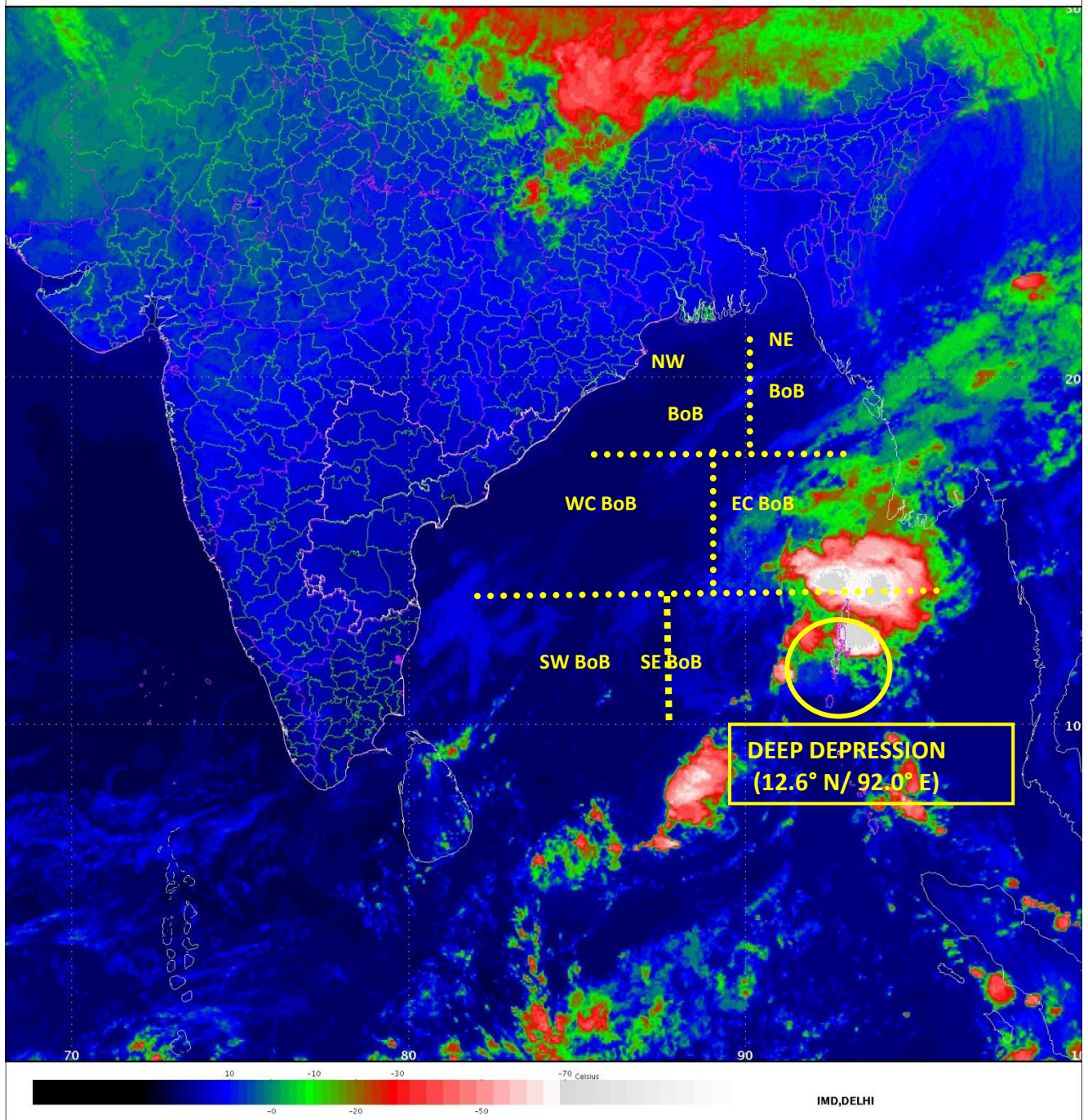
(iv) **Action suggested**

Fishermen are advised not to venture into eastcentral Bay of Bengal, north Andaman Sea and adjoining southeast Bay of Bengal during next 24 hours.

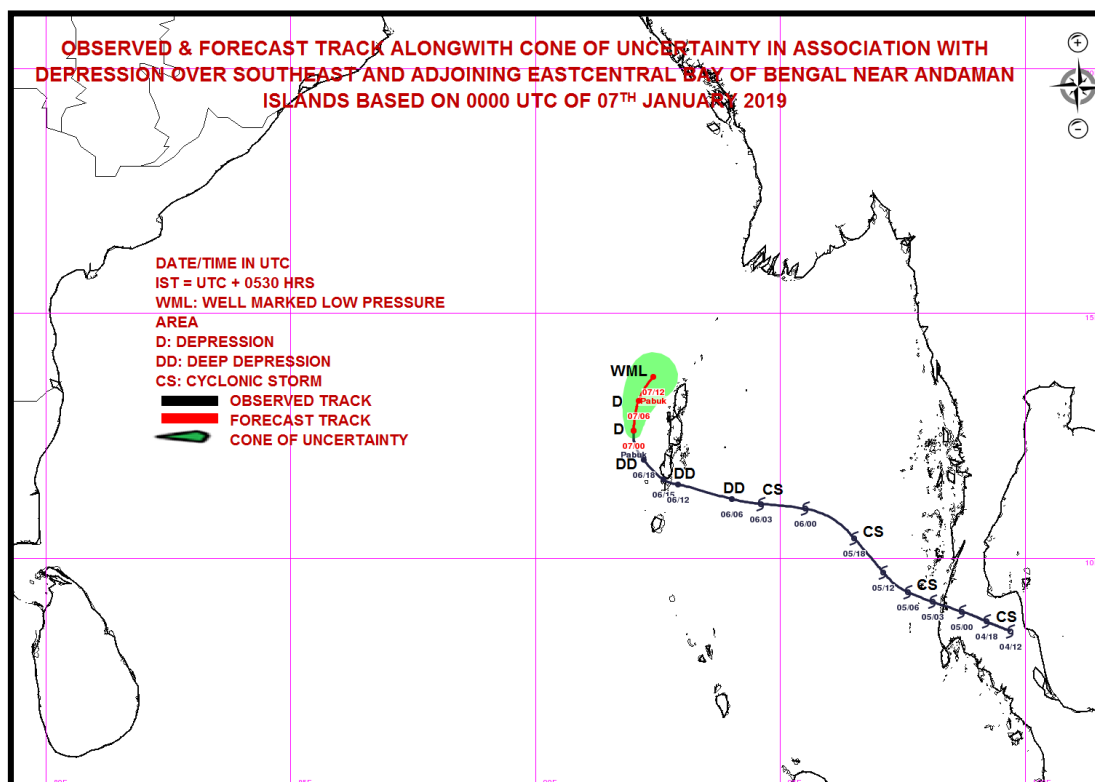
The next bulletin will be issued at 1130 hrs IST of 07th January, 2019.

(Ananda Kumar Das)
Scientist-E, RSMC, New Delhi

Copy to: CRS, Pune/ ACWC Kolkata/ Chennai/ CWC Bhubaneswar/CWC Visakhapatnam/ MO Port Blair



Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
Rainfall amount (mm): Heavy rain: 64.5 – 115.5, Very heavy rain: 115.6 – 204.4, Extremely heavy rain: 204.5 or more.



Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
Rainfall amount (mm): Heavy rain: 64.5 – 115.5, Very heavy rain: 115.6 – 204.4, Extremely heavy rain: 204.5 or more.



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

BULLETIN NO. : 23 (BOB/01/2019)

TIME OF ISSUE: 1130 HOURS IST

DATED: 07.01.2019

FROM: INDIA METEOROLOGICAL DEPARTMENT (FAX NO. 24643965/24699216/24623220)

TO: CONTROL ROOM, NDM, MINISTRY OF HOME AFFAIRS (FAX.NO. 23093750)
CONTROL ROOM NDMA (FAX.NO. 26701729)
CABINET SECRETARIAT (FAX.NO.23012284, 23018638)
PS TO HON'BLE MINISTER FOR S & T AND EARTH SCIENCES (FAX NO.23316745)
SECRETARY, MOES, (FAX NO. 24629777)
H.Q. (INTEGRATED DEFENCE STAFF AND CDS) (FAX NO. 23005137/23005147)
DIRECTOR GENERAL, DOORDARSHAN (23385843)
DIRECTOR GENERAL, AIR (23421105, 23421219)
PIB MOES (FAX NO. 23389042)
UNI (FAX NO. 23355841)
D.G. NATIONAL DISASTER RESPONSE FORCE (NDRF) (FAX NO. 26105912)
DIRECTOR, PUNCTUALITY, INDIAN RAILWAYS (FAX NO. 23388503)
CHIEF SECRETARY, GOVT. OF ODISHA (FAX NO. 0674 -2536660)
CHIEF SECRETARY, ANDHRA PRADESH (FAX NO. 0863-2441029)
CHIEF SECRETARY, TAMIL NADU (FAX NO. 044-25672304)
CHIEF SECRETARY, ANDAMAN & NICOBAR ISLANDS (FAX NO. 03192- 232656)
CHIEF SECRETARY, WEST BENGAL (FAX NO. 033-22144328)
CHIEF SECRETARY, PUDUCHERRY (FAX NO. 0413-2337575)

Sub: Depression over Southeast and Eastcentral Bay of Bengal near Andaman Islands:

The depression over Southeast Bay of Bengal and adjoining Eastcentral Bay of Bengal near Andaman Islands moved nearly northwards with a speed of 15 kmph during past 06 hours; and lay centered at 0830 hours IST of 07th January, 2019 near latitude 12.8°N and longitude 92.0°E, about 150 km north-northwest of Port Blair. It is very likely to move northwards for some more time and then recurve northeastwards towards Myanmar coast. It is likely to weaken into a well marked low pressure area during next 12 hours.

Forecast track and intensity are given in the following table:

Date/Time(IST)	Position (Lat.°N/ long.°E)	Maximum sustained surface wind speed (Kmph)	Category of cyclonic disturbance
07.01.19/0830	12.8/92.0	45-55 gusting to 65	Depression
07.01.19/1130	13.0/92.1	40-50 gusting to 60	Depression
07.01.19/1730	13.7/92.4	25-35 gusting to 45	Well marked low

Warnings:

(i) Heavy rainfall warning

Rainfall at most places with heavy rainfall very likely at isolated places over Andaman Islands during next 24 hours.

(ii) Wind warning

Squally wind speed reaching 45-55 kmph gusting to 65 kmph is very likely to prevail over southeast Bay of Bengal, Andaman Islands and adjoining Andaman Sea & eastcentral Bay of Bengal during next 06 hours and 40-50 kmph gusting to 60 kmph over eastcentral Bay of Bengal and adjoining Andaman Sea during subsequent 06 hours.

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

Rainfall amount (mm): Heavy rain: 64.5 – 115.5, Very heavy rain: 115.6 – 204.4, Extremely heavy rain: 204.5 or more.

(iii) **Sea condition**

Sea conditions is very likely to be rough to very rough over southeast Bay of Bengal, around Andaman Islands during next 06 hours and rough to very rough over eastcentral Bay of Bengal and adjoining Andaman Sea during next 12 hours.

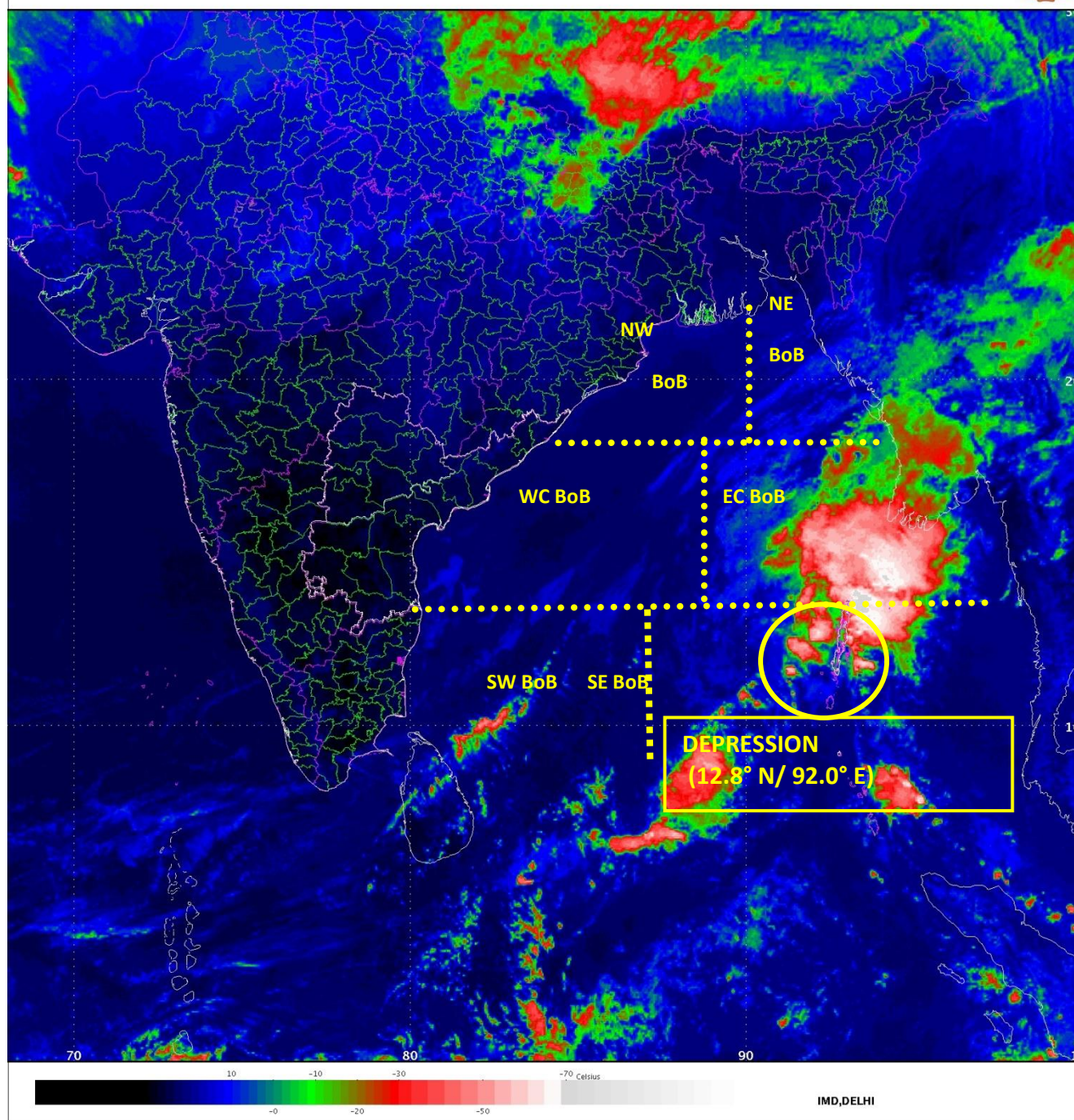
(iv) **Action suggested**

Fishermen are advised not to venture into eastcentral Bay of Bengal, north Andaman Sea and adjoining southeast Bay of Bengal during next 12 hours.

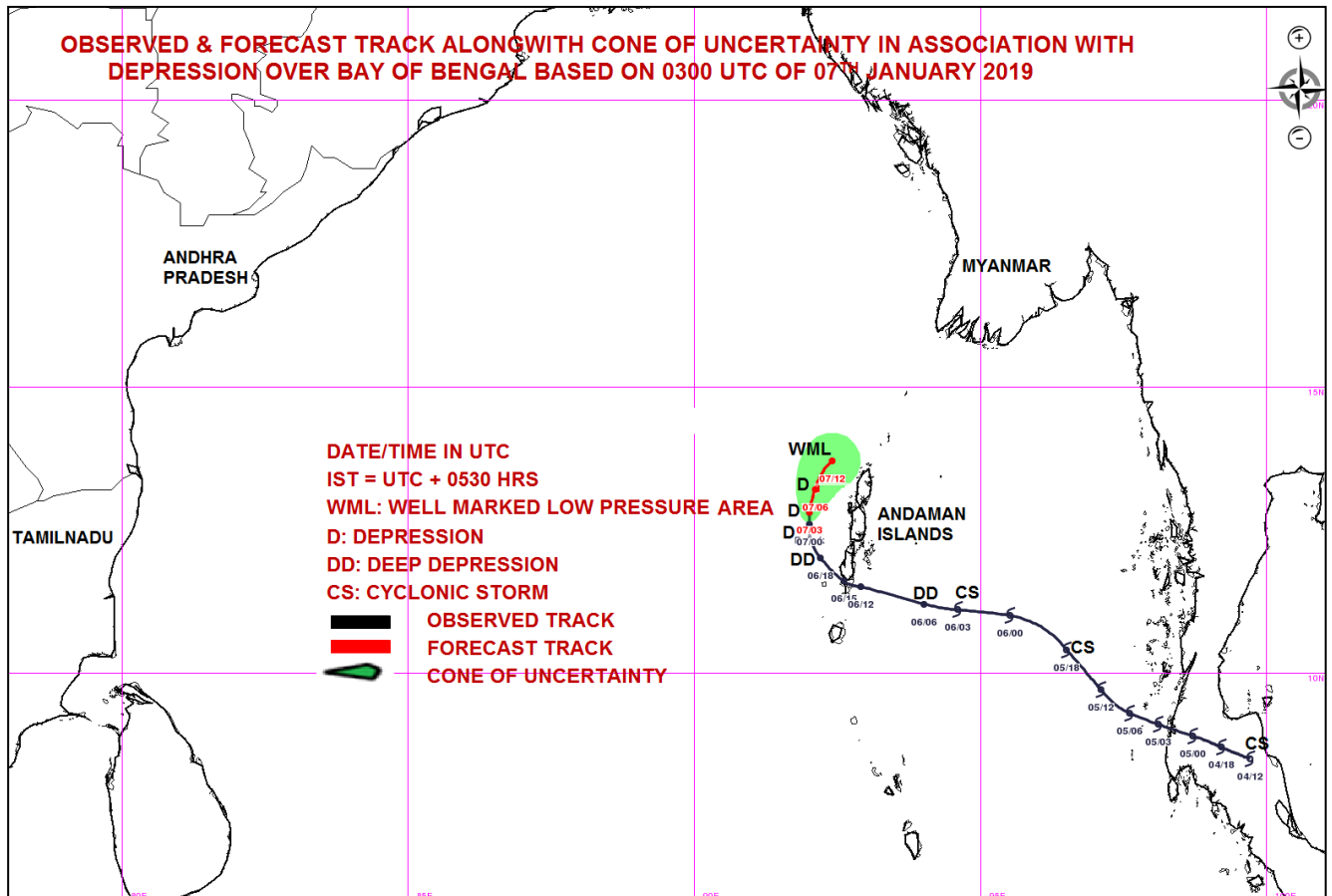
The next bulletin will be issued at 1430 hrs IST of 07th January, 2019.

(Neetha K Gopal)
Scientist-E, RSMC, New Delhi

Copy to: CRS, Pune/ ACWC Kolkata/ Chennai/ CWC Bhubaneswar/CWC Visakhapatnam/ MO Port Blair



Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
Rainfall amount (mm): Heavy rain: 64.5 – 115.5, Very heavy rain: 115.6 – 204.4, Extremely heavy rain: 204.5 or more.



Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
Rainfall amount (mm): Heavy rain: 64.5 – 115.5, Very heavy rain: 115.6 – 204.4, Extremely heavy rain: 204.5 or more.



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

BULLETIN NO. : 24 (BOB/01/2019)

TIME OF ISSUE: 1340 HOURS IST

DATED: 07.01.2019

FROM: INDIA METEOROLOGICAL DEPARTMENT (FAX NO. 24643965/24699216/24623220)

TO: CONTROL ROOM, NDM, MINISTRY OF HOME AFFAIRS (FAX.NO. 23093750)

CONTROL ROOM NDMA (FAX.NO. 26701729)

CABINET SECRETARIAT (FAX.NO.23012284, 23018638)

PS TO HON'BLE MINISTER FOR S & T AND EARTH SCIENCES (FAX NO.23316745)

SECRETARY, MOES, (FAX NO. 24629777)

H.Q. (INTEGRATED DEFENCE STAFF AND CDS) (FAX NO. 23005137/23005147)

DIRECTOR GENERAL, DOORDARSHAN (23385843)

DIRECTOR GENERAL, AIR (23421105, 23421219)

PIB MOES (FAX NO. 23389042)

UNI (FAX NO. 23355841)

D.G. NATIONAL DISASTER RESPONSE FORCE (NDRF) (FAX NO. 26105912)

DIRECTOR, PUNCTUALITY, INDIAN RAILWAYS (FAX NO. 23388503)

CHIEF SECRETARY, GOVT. OF ODISHA (FAX NO. 0674 -2536660)

CHIEF SECRETARY, ANDHRA PRADESH (FAX NO. 0863-2441029)

CHIEF SECRETARY, TAMIL NADU (FAX NO. 044-25672304)

CHIEF SECRETARY, ANDAMAN & NICOBAR ISLANDS (FAX NO. 03192- 232656)

CHIEF SECRETARY, WEST BENGAL (FAX NO. 033-22144328)

CHIEF SECRETARY, PUDUCHERRY (FAX NO. 0413-2337575)

Sub: Depression over Southeast and Eastcentral Bay of Bengal near Andaman Islands:

The depression over Southeast Bay of Bengal and adjoining Eastcentral Bay of Bengal near Andaman Islands remained practically stationery during past 06 hours; and lay centered at 1130 hours IST of 07th January, 2019 near latitude 12.8°N and longitude 92.0°E, about 150 km north-northwest of Port Blair. It is very likely to recurve northeastwards towards Myanmar coast. It is likely to weaken into a well marked low pressure area during next 12 hours.

Forecast track and intensity are given in the following table:

Date/Time(IST)	Position (Lat.°N/ long.°E)	Maximum sustained surface wind speed (Kmph)	Category of cyclonic disturbance
07.01.19/1130	12.8/92.0	40-50 gusting to 60	Depression
07.01.19/1730	13.0/92.1	25-35 gusting to 45	Well marked low
07.01.19/2330	13.7/92.4	20-30 gusting to 40	Well marked low

Warnings:

(i) Heavy rainfall warning

Rainfall at most places with heavy rainfall very likely at isolated places over Andaman Islands during next 24 hours.

(ii) Wind warning

Squally wind speed reaching 40-50 kmph gusting to 60 kmph is very likely to prevail over southeast Bay of Bengal, Andaman Islands and adjoining Andaman Sea & eastcentral Bay of Bengal during next 06 hours and 25-35 kmph gusting to 45 kmph over eastcentral Bay of Bengal and adjoining Andaman Sea during subsequent 06 hours.

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

Rainfall amount (mm): Heavy rain: 64.5 – 115.5, Very heavy rain: 115.6 – 204.4, Extremely heavy rain: 204.5 or more.

(iii) **Sea condition**

Sea condition is very likely to be rough over southeast Bay of Bengal, around Andaman Islands during next 06 hours and rough to moderate over eastcentral Bay of Bengal and adjoining Andaman Sea during next 12 hours.

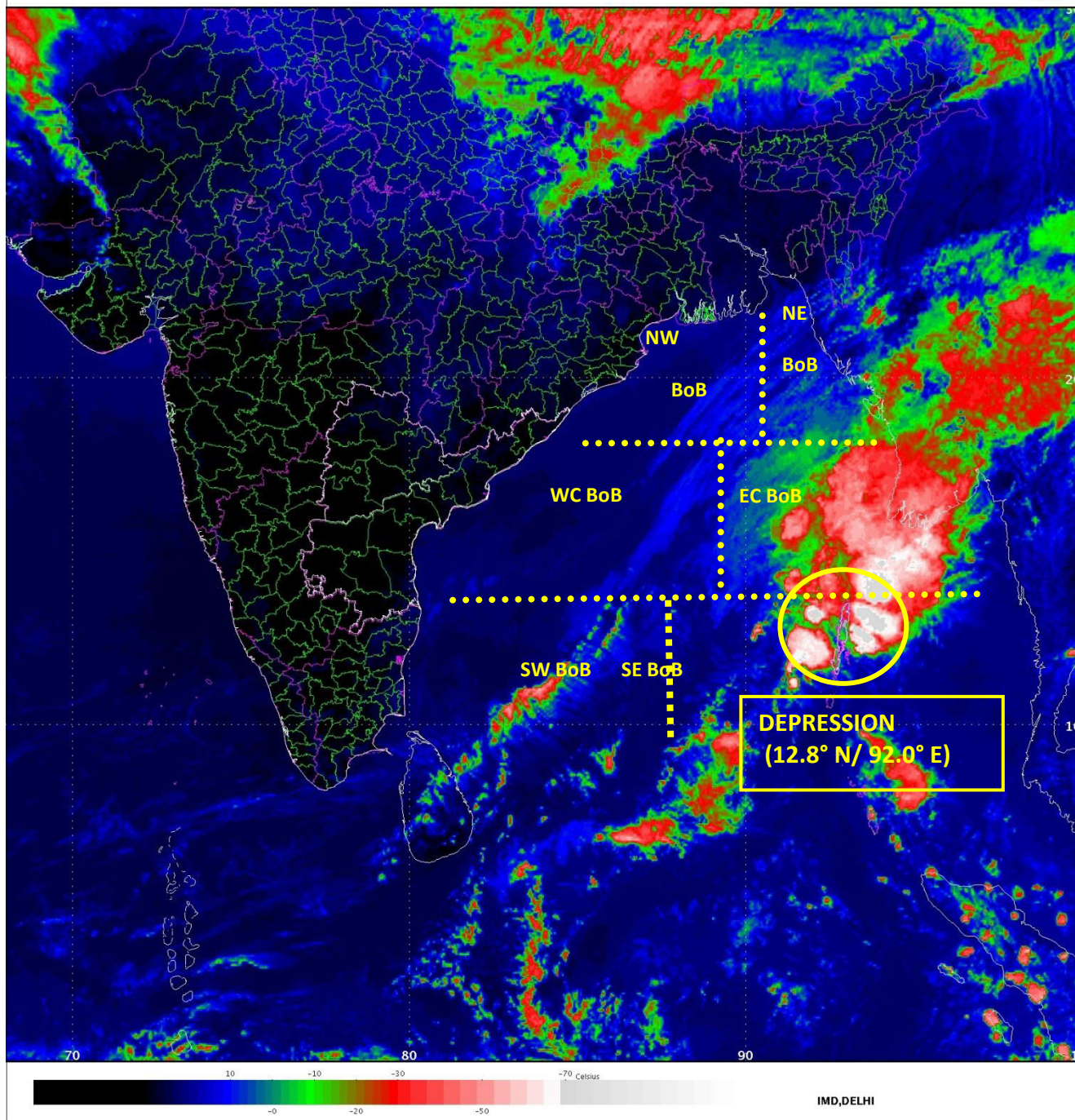
(iv) **Action suggested**

Fishermen are advised not to venture into eastcentral Bay of Bengal, north Andaman Sea and adjoining southeast Bay of Bengal during next 12 hours.

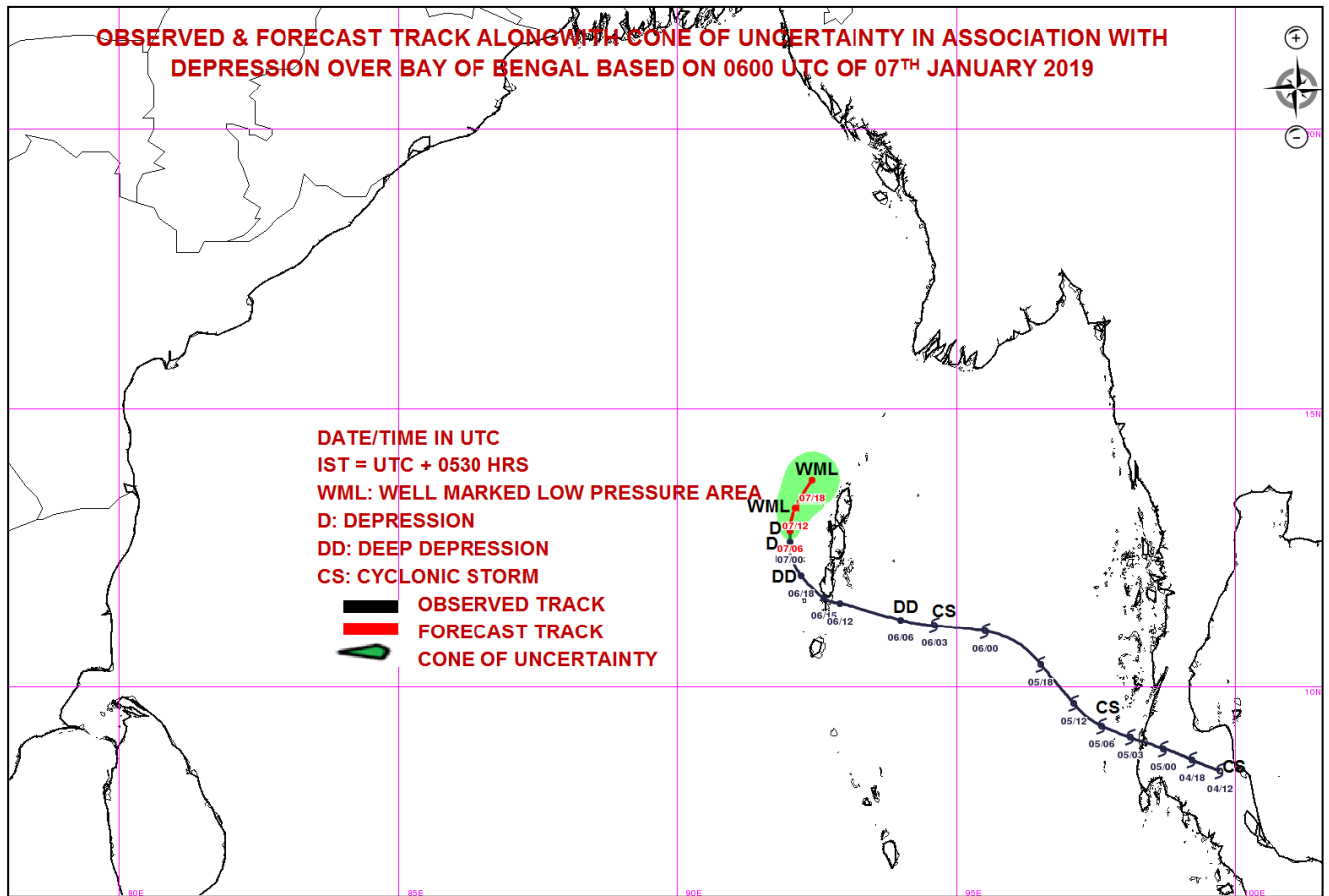
The next bulletin will be issued at 2030 hrs IST of 07th January, 2019.

(Neetha K Gopal)
Scientist-E, RSMC, New Delhi

Copy to: CRS, Pune/ ACWC Kolkata/ Chennai/ CWC Bhubaneswar/CWC Visakhapatnam/ MO Port Blair



Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
 Rainfall amount (mm): Heavy rain: 64.5 – 115.5, Very heavy rain: 115.6 – 204.4, Extremely heavy rain: 204.5 or more.



Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
Rainfall amount (mm): Heavy rain: 64.5 – 115.5, Very heavy rain: 115.6 – 204.4, Extremely heavy rain: 204.5 or more.



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

BULLETIN NO. : 25 (BOB/01/2019)

TIME OF ISSUE: 2000 HOURS IST

DATED: 07.01.2019

FROM: INDIA METEOROLOGICAL DEPARTMENT (FAX NO. 24643965/24699216/24623220)

TO: CONTROL ROOM, NDM, MINISTRY OF HOME AFFAIRS (FAX.NO. 23093750)

CONTROL ROOM NDMA (FAX.NO. 26701729)

CABINET SECRETARIAT (FAX.NO.23012284, 23018638)

PS TO HON'BLE MINISTER FOR S & T AND EARTH SCIENCES (FAX NO.23316745)

SECRETARY, MOES, (FAX NO. 24629777)

H.Q. (INTEGRATED DEFENCE STAFF AND CDS) (FAX NO. 23005137/23005147)

DIRECTOR GENERAL, DOORDARSHAN (23385843)

DIRECTOR GENERAL, AIR (23421105, 23421219)

PIB MOES (FAX NO. 23389042)

UNI (FAX NO. 23355841)

D.G. NATIONAL DISASTER RESPONSE FORCE (NDRF) (FAX NO. 26105912)

DIRECTOR, PUNCTUALITY, INDIAN RAILWAYS (FAX NO. 23388503)

CHIEF SECRETARY, GOVT. OF ODISHA (FAX NO. 0674 -2536660)

CHIEF SECRETARY, ANDHRA PRADESH (FAX NO. 0863-2441029)

CHIEF SECRETARY, TAMIL NADU (FAX NO. 044-25672304)

CHIEF SECRETARY, ANDAMAN & NICOBAR ISLANDS (FAX NO. 03192- 232656)

CHIEF SECRETARY, WEST BENGAL (FAX NO. 033-22144328)

CHIEF SECRETARY, PUDUCHERRY (FAX NO. 0413-2337575)

Sub: Depression over Eastcentral and adjoining Southeast Bay of Bengal near Andaman Islands:

The depression over Southeast and adjoining Eastcentral Bay of Bengal moved northwards during past 06 hours; with a speed of 05 kmph and lay centered at 1730 hours IST of 07th January, 2019 over Eastcentral and adjoining Southeast Bay of Bengal near Andaman Islands near latitude 13.1°N and longitude 92.0°E, about 170 km north-northwest of Port Blair. It is very likely to continue to move northwards for some more time and recurve northeastwards towards Myanmar coast thereafter. It is likely to weaken into a well marked low pressure area during next 12 hours.

Forecast track and intensity are given in the following table:

Date/Time (IST)	Position (Lat.°N/ long.°E)	Maximum sustained surface wind speed (Kmph)	Category of cyclonic disturbance
07.01.19/1730	13.1/92.0	40-50 gusting to 60	Depression
07.01.19/2330	13.4/92.1	40-50 gusting to 60	Depression
08.01.19/0530	13.7/92.3	35-45 gusting to 55	Depression

Warnings:

(i) Heavy rainfall warning

Rainfall at most places with heavy rainfall at isolated places very likely over Andaman Islands during next 12 hours.

(ii) Wind warning

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

Rainfall amount (mm): Heavy rain: 64.5 – 115.5, Very heavy rain: 115.6 – 204.4, Extremely heavy rain: 204.5 or more.

Squally wind speed reaching 40-50 kmph gusting to 60 kmph is very likely to prevail over eastcentral Bay of Bengal, Andaman Islands and adjoining Andaman Sea & southeast Bay of Bengal during next 12 hours. It is likely to become 35-45 kmph gusting to 55 kmph from the morning of 08th January, 2019 and decrease further thereafter.

(iii) **Sea condition**

Sea condition is very likely to be rough to very rough over eastcentral and adjoining southeast Bay of Bengal, around Andaman Islands during next 12 hours and will be rough during subsequent 12 hours.

(iv) **Fishermen warning**

Fishermen are advised not to venture into eastcentral Bay of Bengal, north Andaman Sea and adjoining southeast Bay of Bengal during next 18 hours.

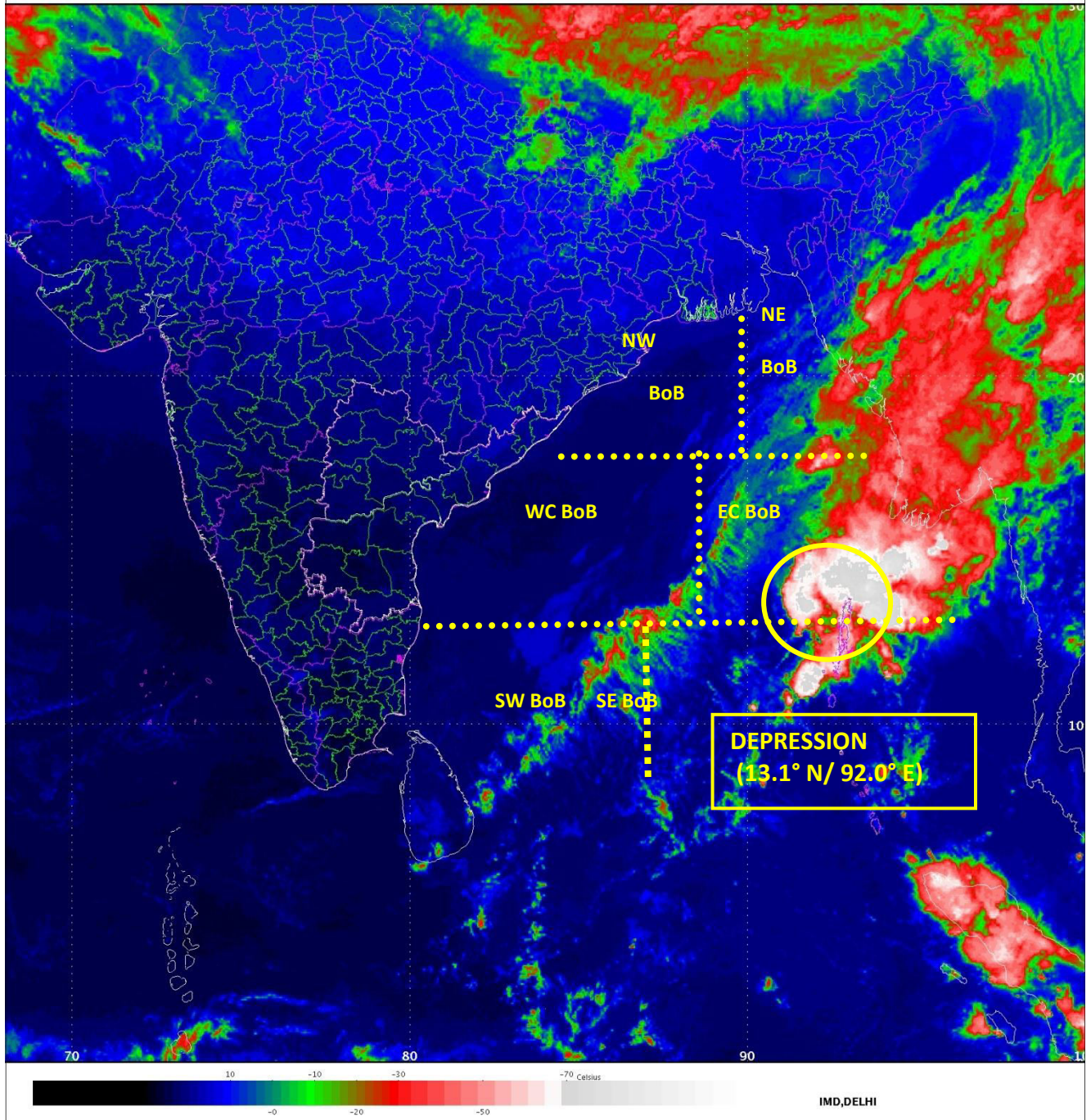
The next bulletin will be issued at 0230 hrs IST of 08th January, 2019.

(Neetha K Gopal)
Scientist-E, RSMC, New Delhi

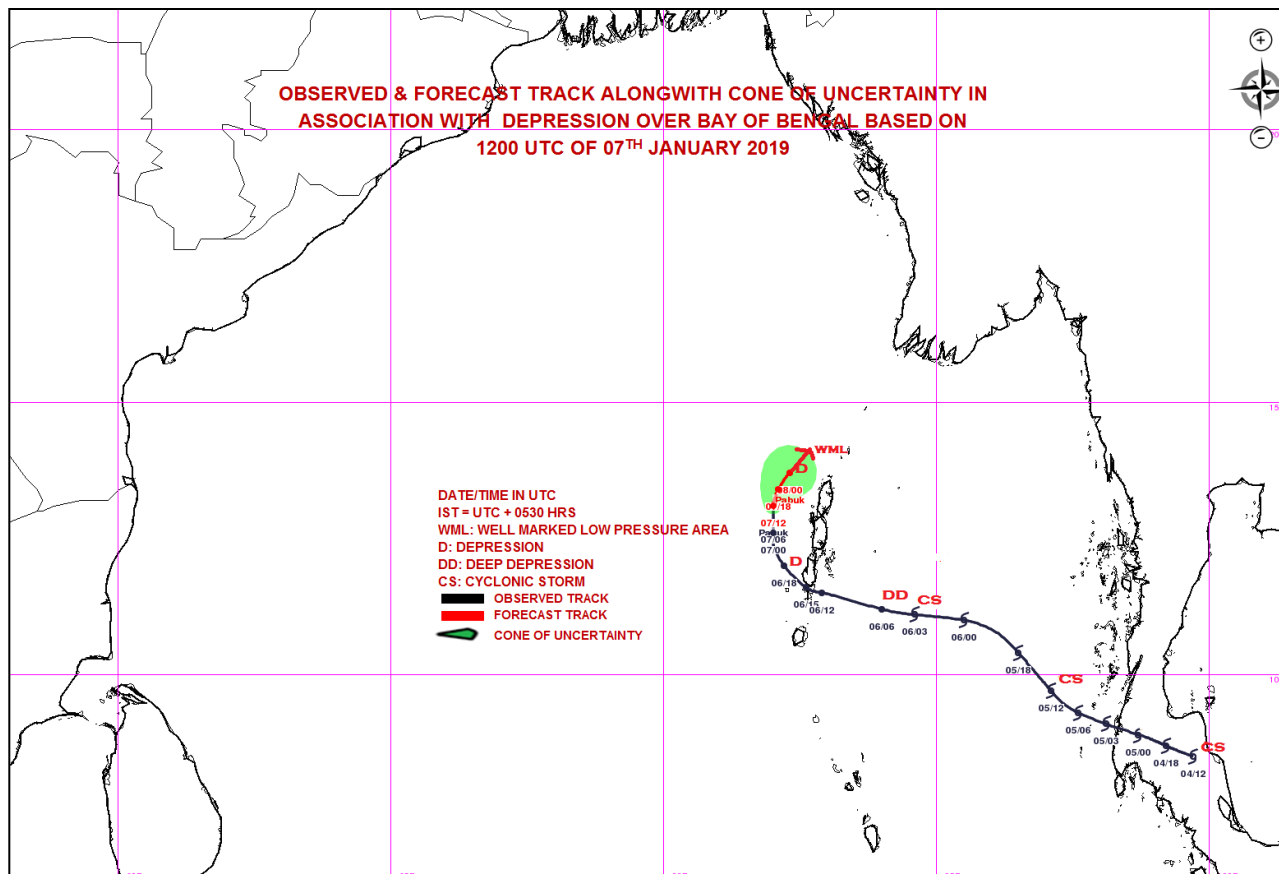
Copy to: CRS, Pune/ ACWC Kolkata/ Chennai/ CWC Bhubaneswar/CWC Visakhapatnam/ MO Port Blair

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

07-01-2019/12:00 GMT
07-01-2019/17:30 IST



Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
Rainfall amount (mm): Heavy rain: 64.5 – 115.5, Very heavy rain: 115.6 – 204.4, Extremely heavy rain: 204.5 or more.



Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
Rainfall amount (mm): Heavy rain: 64.5 – 115.5, Very heavy rain: 115.6 – 204.4, Extremely heavy rain: 204.5 or more.



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

BULLETIN NO. : 26 (BOB/01/2019)

TIME OF ISSUE: 0100 HOURS IST

DATED: 08.01.2019

FROM: INDIA METEOROLOGICAL DEPARTMENT (FAX NO. 24643965/24699216/24623220)

**TO: CONTROL ROOM, NDM, MINISTRY OF HOME AFFAIRS (FAX.NO. 23093750)
CONTROL ROOM NDMA (FAX.NO. 26701729)
CABINET SECRETARIAT (FAX.NO.23012284, 23018638)
PS TO HON'BLE MINISTER FOR S & T AND EARTH SCIENCES (FAX NO.23316745)
SECRETARY, MOES, (FAX NO. 24629777)
H.Q. (INTEGRATED DEFENCE STAFF AND CDS) (FAX NO. 23005137/23005147)
DIRECTOR GENERAL, DOORDARSHAN (23385843)
DIRECTOR GENERAL, AIR (23421105, 23421219)
PIB MOES (FAX NO. 23389042)
UNI (FAX NO. 23355841)
D.G. NATIONAL DISASTER RESPONSE FORCE (NDRF) (FAX NO. 26105912)
DIRECTOR, PUNCTUALITY, INDIAN RAILWAYS (FAX NO. 23388503)
CHIEF SECRETARY, GOVT. OF ODISHA (FAX NO. 0674 -2536660)
CHIEF SECRETARY, ANDHRA PRADESH (FAX NO. 0863-2441029)
CHIEF SECRETARY, TAMIL NADU (FAX NO. 044-25672304)
CHIEF SECRETARY, ANDAMAN & NICOBAR ISLANDS (FAX NO. 03192- 232656)
CHIEF SECRETARY, WEST BENGAL (FAX NO. 033-22144328)
CHIEF SECRETARY, PUDUCHERRY (FAX NO. 0413-2337575)**

Sub: Depression over Eastcentral and adjoining Southeast Bay of Bengal near Andaman Islands:

The Depression over Eastcentral and adjoining Southeast Bay of Bengal near Andaman Islands remained practically stationary during past 06 hours and lay centered at 2330 hours IST of yesterday, the 07th January, 2019 over Eastcentral and adjoining Southeast Bay of Bengal near Andaman Islands near latitude 13.1°N and longitude 92.0°E, about 170 km north-northwest of Port Blair. It is very likely to move northwards for some time and recurve northeastwards towards Myanmar coast thereafter. It is likely to weaken into a Well Marked Low Pressure Area during next 12 hours.

Warnings:

(i) Heavy rainfall warning

Rainfall at most places with heavy rainfall at isolated places during next 06 hours and light to moderate rainfall at many places during subsequent 12 hours very likely over Andaman Islands.

(ii) Wind warning

Squally wind speed reaching 40-50 kmph gusting to 60 kmph is very likely to prevail over Eastcentral Bay of Bengal, Andaman Islands and adjoining Andaman Sea & Southeast Bay of Bengal during next 06 hours. It is likely to become 35-45 kmph gusting to 55 kmph from the morning of today, the 08th January, 2019 and decrease further thereafter.

(iii) Sea condition

Sea condition is very likely to be rough to very rough over eastcentral and adjoining southeast Bay of Bengal, around Andaman Islands during next 12 hours and will be rough during subsequent 12 hours.

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

Rainfall amount (mm): Heavy rain: 64.5 – 115.5, Very heavy rain: 115.6 – 204.4, Extremely heavy rain: 204.5 or more.

(iii) **Fishermen warning**

Fishermen are advised not to venture into Eastcentral Bay of Bengal, north Andaman Sea and adjoining Southeast Bay of Bengal during next 18 hours.

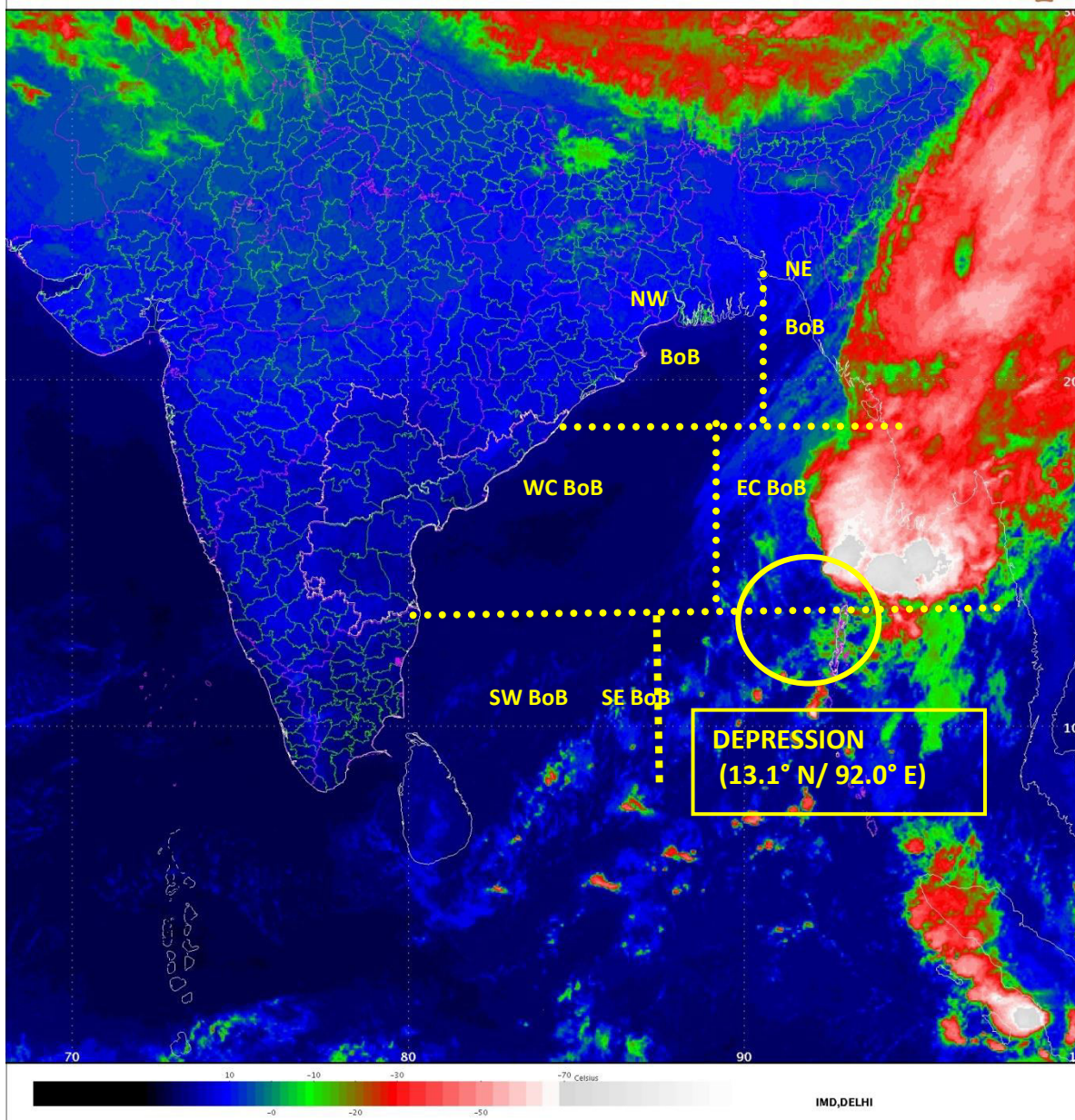
The next bulletin will be issued at 0830 hrs IST of today, the 08th January, 2019.

(V R Durai)
Scientist-E, RSMC, New Delhi

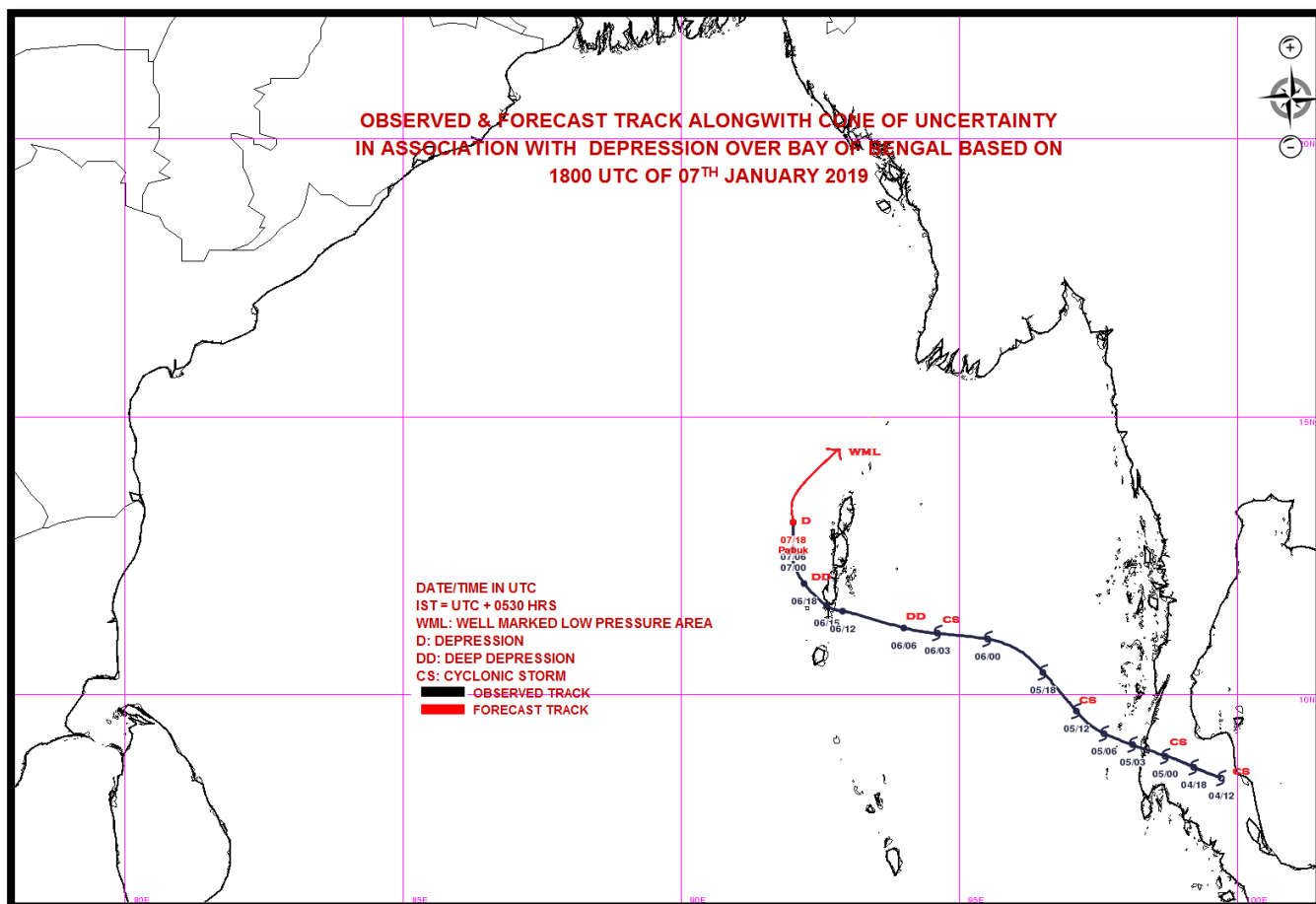
Copy to: CRS, Pune/ ACWC Kolkata/ Chennai/ CWC Bhubaneswar/CWC Visakhapatnam/ MO Port Blair

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

07-01-2019/18:00 GMT
07-01-2019/23:30 IST



Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
Rainfall amount (mm): Heavy rain: 64.5 – 115.5, Very heavy rain: 115.6 – 204.4, Extremely heavy rain: 204.5 or more.



Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
Rainfall amount (mm): Heavy rain: 64.5 – 115.5, Very heavy rain: 115.6 – 204.4, Extremely heavy rain: 204.5 or more.



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

BULLETIN NO. : 27 (BOB/01/2019)

TIME OF ISSUE: 0730 HOURS IST

DATED: 08.01.2019

FROM: INDIA METEOROLOGICAL DEPARTMENT (FAX NO. 24643965/24699216/24623220)

TO: CONTROL ROOM, NDM, MINISTRY OF HOME AFFAIRS (FAX.NO. 23093750)

CONTROL ROOM NDMA (FAX.NO. 26701729)

CABINET SECRETARIAT (FAX.NO.23012284, 23018638)

PS TO HON'BLE MINISTER FOR S & T AND EARTH SCIENCES (FAX NO.23316745)

SECRETARY, MOES, (FAX NO. 24629777)

H.Q. (INTEGRATED DEFENCE STAFF AND CDS) (FAX NO. 23005137/23005147)

DIRECTOR GENERAL, DOORDARSHAN (23385843)

DIRECTOR GENERAL, AIR (23421105, 23421219)

PIB MOES (FAX NO. 23389042)

UNI (FAX NO. 23355841)

D.G. NATIONAL DISASTER RESPONSE FORCE (NDRF) (FAX NO. 26105912)

DIRECTOR, PUNCTUALITY, INDIAN RAILWAYS (FAX NO. 23388503)

CHIEF SECRETARY, GOVT. OF ODISHA (FAX NO. 0674 -2536660)

CHIEF SECRETARY, ANDHRA PRADESH (FAX NO. 0863-2441029)

CHIEF SECRETARY, TAMIL NADU (FAX NO. 044-25672304)

CHIEF SECRETARY, ANDAMAN & NICOBAR ISLANDS (FAX NO. 03192- 232656)

CHIEF SECRETARY, WEST BENGAL (FAX NO. 033-22144328)

CHIEF SECRETARY, PUDUCHERRY (FAX NO. 0413-2337575)

Sub: Depression over Eastcentral and adjoining Southeast Bay of Bengal near Andaman Islands weakened in to a Well Marked Low Pressure Area

The Depression over Eastcentral and adjoining Southeast Bay of Bengal moved northeastwards during past 6 hours and weakened into a well marked low pressure area over eastcentral Bay of Bengal & adjoining north Andaman Sea and Myanmar coast at 0530 hours IST of today, the 08th January, 2019. It is very likely to move further northeastwards and weaken into a Low Pressure Area during next 12 hours.

Warnings:

(i) **Heavy rainfall warning:** No Heavy Rainfall likely over Andaman Islands.

(ii) Wind warning

Strong wind speed reaching 30-40 kmph gusting to 50 kmph is very likely to prevail over eastcentral Bay of Bengal, north Andaman Sea and along & off Myanmar coast during next 12 hours.

(iii) Sea condition

Sea condition is very likely to be rough over eastcentral Bay of Bengal & adjoining north Andaman Sea and off Myanmar coast during 12 hours.

(iv) Fishermen warning

Fishermen are advised not to venture into Eastcentral Bay of Bengal, north Andaman Sea and along & off Myanmar coast during next 12 hours.

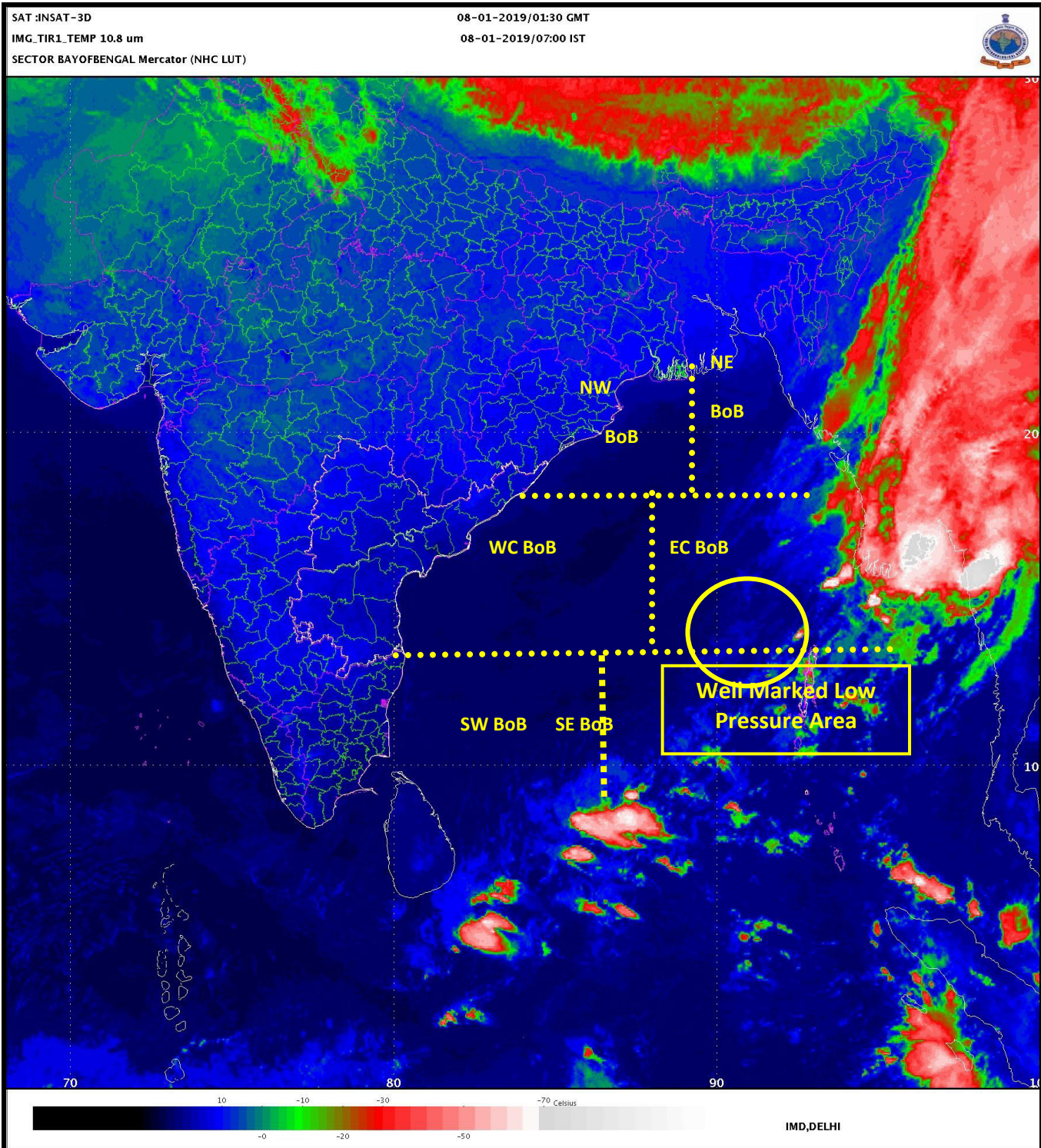
This is the last bulletin for this system. For further update kindly visit IMD NWFC Bulletin (<http://imd.gov.in/pages/allindiawxfgbulletin.php>)

**(Charan Singh)
Scientist-F, RSMC, New Delhi**

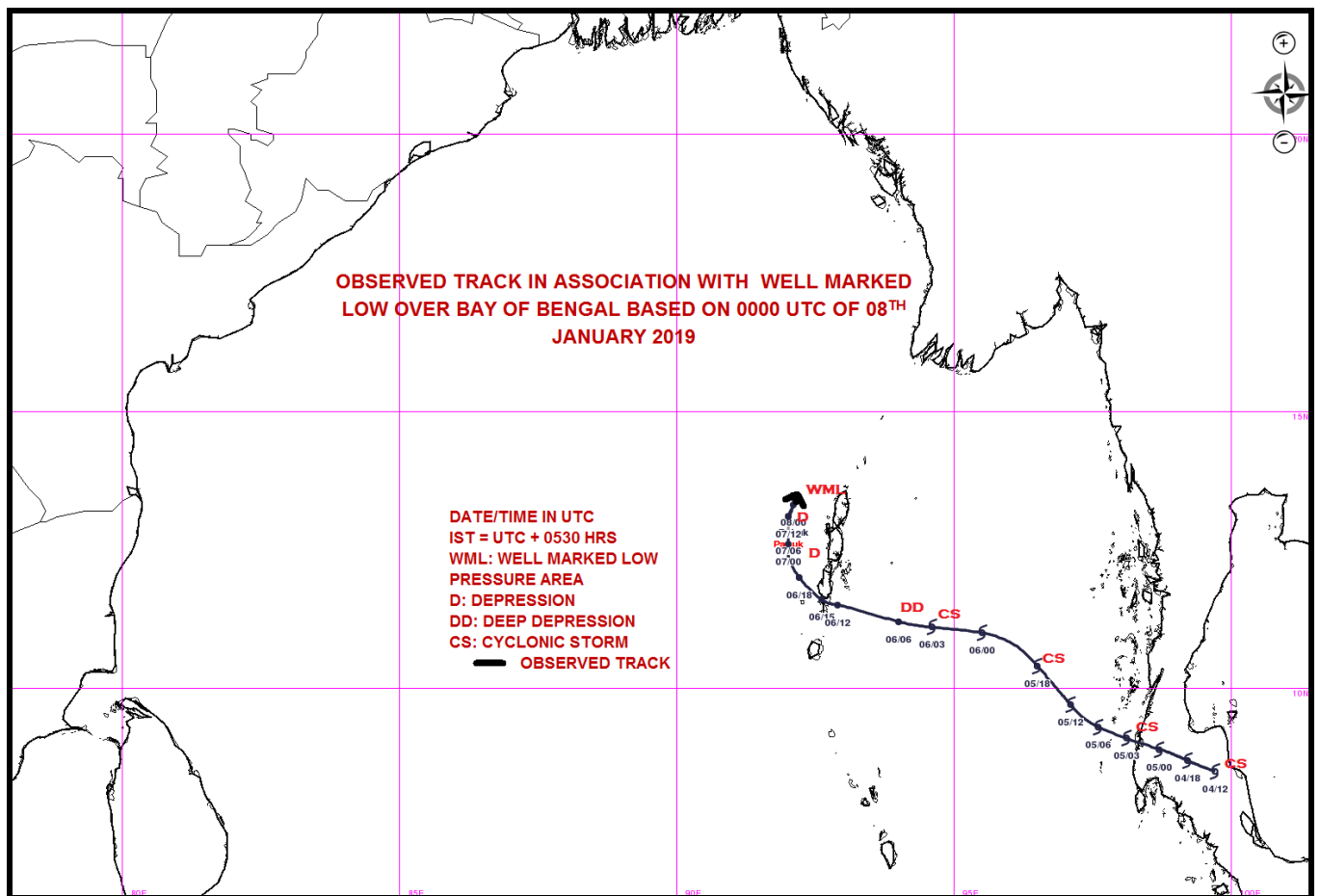
Copy to: CRS, Pune/ ACWC Kolkata/ Chennai/ CWC Bhubaneswar/CWC Visakhapatnam/ MO Port Blair

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

Rainfall amount (mm): Heavy rain: 64.5 – 115.5, Very heavy rain: 115.6 – 204.4, Extremely heavy rain: 204.5 or more.



Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
Rainfall amount (mm): Heavy rain: 64.5 – 115.5, Very heavy rain: 115.6 – 204.4, Extremely heavy rain: 204.5 or more.



Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
Rainfall amount (mm): Heavy rain: 64.5 – 115.5, Very heavy rain: 115.6 – 204.4, Extremely heavy rain: 204.5 or more.