

## **India Meteorological Department**

### (Ministry of Earth Sciences)

**BULLETIN NO. : 24 (BOB/05/2020)** 

TIME OF ISSUE: 1600 HOURS IST DATED: 03.12.2020

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, 2436 3260)

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

CHIEF SECRETARY, KARNATAKA (FAX NO. 080-22256360, 22258913)

CHIEF SECRETARY, KERALA (FAX NO. 0471-233315)

CHIEF SECRETARY, LAKSHADWEEP ISLANDS (FAX NO. 04896-262184)

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

CHIEF SECRETARY, ANDHRA PRADESH (FAX NO. 0863-2441029, 08645-246600)

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

CHIEF SECRETARY, PUDUCHERRY (FAX NO. 0413-2337575, 2334145)

Sub: Cyclonic Storm 'Burevi' over Gulf of Mannar

(Cyclone Warning for South Tamilnadu and South Kerala coasts: Red Message)

The **Cyclonic Storm 'Burevi'** over Gulf of Mannar moved westwards with a speed of 16 kmph during past six hours and lay centered at 1430 hrs IST of  $03^{rd}$  December over the same region near Lat. 9.2°N and Long. 79.3°E, close to Pamban (India) about 70 km west-northwest of Mannar, and 230 km east-northeast of Kanniyakumari (India). **The associated wind speed is about 70-80 gusting to 90 kmph.** 

The cyclonic storm 'Burevi' would move across Pamban area during next 3 hours. It would than move west-southwestwards and cross south Tamilnadu coast between Pamban and Kanniyakumari during 3<sup>rd</sup> December night and 4<sup>th</sup> December early hours as a Cyclonic Storm with wind speed of 70-80 gusting to 90 kmph. Thus, its impact would continue over Ramanathapuram and Thoothukudi districts and gradually over Tirunelveli and Kanniyakumari districts of south Tamilnadu and adjoining districts of south Kerala till early hours of 4<sup>th</sup> December.

#### Forecast track and intensity are given below:

Date/Time(IST)	Position (Lat. <sup>0</sup> N/ long. <sup>0</sup> E)	Maximum sustained surface wind speed (Kmph)	Category of cyclonic disturbance
03.12.20/1430	9.2/79.3	70-80 gusting to 90	Cyclonic Storm
03.12.20/1730	9.2/79.1	70-80 gusting to 90	Cyclonic Storm
03.12.20/2330	9.0/78.5	70-80 gusting to 90	Cyclonic Storm
04.12.20/0530	8.9/78.0	60-70 gusting to 80	Cyclonic Storm
04.12.20/1130	8.8/77.4	50-60 gusting to 70	Deep Depression
04.12.20/2330	8.7/76.3	40-50 gusting to 60	Depression

# Warnings:

# (i) Rainfall

- Heavy to very heavy rainfall at a few places with isolated Extremely heavy falls very likely over south Tamilnadu (Ramanathapuram, Thoothukudi, Tirunelveli, Kanniyakumari, Tenkasi, Virudhunagar, Theni, Madurai and Sivagangai districts) and over south Kerala (Thiruvananthapuram, Kollam, Pathanamthitta, Idukki and Alappuzah) on 3<sup>rd</sup> December and isolated heavy to very heavy rainfall likely over south Tamilnadu and south Kerala on 4<sup>th</sup> December, 2020.
- Heavy to very heavy rainfall at isolated places very likely over north Tamilnadu, Puducherry, Mahe
   & Karaikal and north Kerala on 3<sup>rd</sup> December, isolated heavy rainfall on 4th December.
- Heavy rainfall at isolated places very likely over south Coastal Andhra Pradesh and Lakshadweep on 3<sup>rd</sup> & 04<sup>th</sup> December.

Sub-Divisions	03 Dec 2020*	04 Dec 2020*	
South Tamilnadu	Rainfall at most places with heavy to very heavy rainfall at few places and extremely heavy fall at isolated places	Rainfall at many places with heavy to very heavy rainfall at isolated places	
North Tamilnadu, Puducherry & Karaikal	Rainfall at many places with heavy to very heavy rainfall at isolated places	Rainfall at many places with heavy fall at isolated places	
South Kerala	Rainfall at most places with heavy to very heavy rainfall at few places and extremely heavy fall at isolated places	Rainfall at many places with heavy to very heavy rainfall at isolated places	
North Kerala & Mahe	Rainfall at most places with heavy to very heavy rainfall at isolated places	Rainfall at a few places with heavy fall at isolated places	
South Coastal Andhra Pradesh	Rainfall at a few places with heavy rainfall at isolated places	Rainfall at a few places with heavy rainfall at isolated places	
Lakshadweep	Rainfall at many places	Rainfall at most places with heavy to very falls at isolated places	

# (ii) Wind warning

- Gale wind speed reaching 70-80 kmph gusting to 90 kmph is very likely during next 24 hours along and off south Tamilnadu coast (Ramanathapuram, Thoothukudi, Tirunelveli and Kanniyakumari districts) and 55-65 kmph gusting to 75 kmph prevails along & off south Kerala coast (Thiruvananthapuram, Kollam, Pathanamthitta and Alappuzah districts) and decrease thereafter.
- Squally wind speed reaching 45-55 kmph gusting to 65 kmph very likely over Lakshadweep-Maldives area and adjoining southeast Arabian Sea on 3<sup>rd</sup> and 4<sup>th</sup> December.

#### (iii) Storm Surge:

 Storm surge of about 1.0 m height above astronomical tide is very likely to inundate low lying areas of south coastal Tamilnadu (Ramanathapuram, Thoothukudi, Tirunelveli and Kanniyakumari districts) during the time of landfall and northwest Sri Lanka coast during next 06 hours.

# (iii) Sea condition

- Sea condition is very rough to high over Gulf of Mannar, along & off south Tamilnadu, west Sri Lanka coast and rough to very rough over Comorin Area, adjoining southeast Arabian Sea and along & off Kerala coast on 3<sup>rd</sup> and 4<sup>th</sup> December.
- Sea condition is very rough to high over southwest Bay of Bengal and along & off north east Sri Lanka coast and the same will continue till mid-night of 3<sup>rd</sup> December and gradually improve thereafter.
- Sea condition will be rough to very rough over Lakshadweep-Maldives area and adjoining southeast Arabian Sea during 3<sup>rd</sup> to 5<sup>th</sup> December.

# (iv) Damage expected over south Tamilnadu (Kanniyakumari, Tirunelveli, Thoothukudi and Ramanathapuram districts) and south Kerala (Thiruvananthapuram, Kollam, Pathanamthitta and Alappuzah districts)

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

# (v) Fishermen warning and Action suggested

- Total suspension of fishing operation during 3rd to 5th December over the areas as mentioned below.
- Fishermen are advised not to venture into southwest Bay of Bengal and along & off east Sri Lanka coast on 3rd December; Comorin Area, Gulf of Mannar and south Tamilnadu-Kerala and west Sri Lanka coasts from 3rd to 4th December, over Lakshadweep-Maldives area & adjoining southeast Arabian Sea from 3rd to 5th December.

The next bulletin will be issued at 1930 hrs IST of 3<sup>rd</sup> December, 2020.

(R. K. Jenamani) Scientist-F, RSMC, New Delhi

Copy to: ACWC Kolkata/Chennai/CWC Bhubaneswar/CWC Visakhapatnam/CWC Thiruvanathapuram

SAT : INSAT-3D IMG IMG\_TIR1\_TEMP 10.8 um

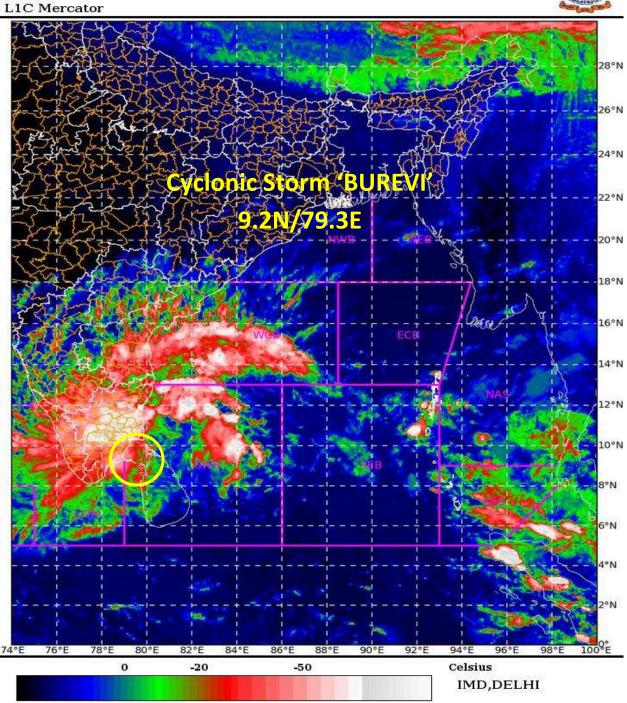
10

-10

-30

03-12-2020/(0930 to 0956) GMT 03-12-2020/(1500 to 1526) IST

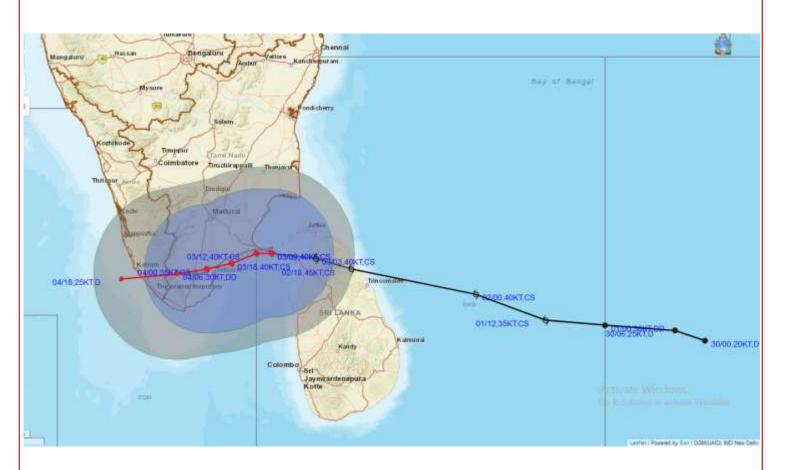




-70



OBSERVED AND FORECAST TRACK ALONGWITH QUADRANT WIND DISTRIBUTION OF CYCLONIC STORM "BUREVI" OVER SRI LANKA BASED ON 0900 UTC OF 3rd DECEMBER, 2020.



DATE/TIME IN UTC IST=UTC + 0530

L: LOW PRESSURE AREA

WML: WELL MARKED LOW PRESSURE AREA

D: DEPRESSION (17-27 KT)

DD: DEEP DEPRESSION (28-33 KT)

CS: CYCLONIC STORM (34-47 KT)

SCS: SEVERE CYCLONIC STORM (48-63KT)
VSCS: VERY SEVERE CYCLONIC STORM (64-89 KT)

ESCS: EXTREMELY SEVERE CYCLONIC STORM (90-119 KT)

Sucs: SUPER CYCLONIC STORM (2 120 KT)

LESS THAN 34 KT

6 34.47 KT

≥ 48 KT

OBSERVED TRACK
 FORECAST TRACK

CONE OF UNCERTAINTY

AREA OF MAXIMUM SUSTAINED WIND SPEED:

28-33 KT (52-61 KMPH)

34.49 KT (62.91 KMPH) 50.63 KT (92.117 KMPH)

— 50-63 KT (92-117 KMPH — ≥ 64 KT (≥118 KMPH)

#### IMPACT OVER THE SEA

INIT ACT OVER THE SEA				
MSW (knot/kmph)	Impact	Action  Total suspension of fishing operations		
28-33 (52-61)	Very rough seas			
34-49 (62-91)	High to very high seas	Total suspension of fishing operations		
50-63 (92-117)	Very high seas	Total suspension of fishing operations		
≥ 64 (≥118)	Phenomenal	Total suspension of fishing operations		



OBSERVED AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINITY OF CYCLONIC STORM "BUREVI" OVER SRI LANKA BASED ON 0900 UTC OF 3rd DECEMBER, 2020.





L: LOW PRESSURE AREA

WML: WELL MARKED LOW PRESSURE AREA

D: DEPRESSION (17-27 KT)

DD: DEEP DEPRESSION (28-33 KT) CS: CYCLONIC STORM (34-47 KT)

SCS: SEVERE CYCLONIC STORM (48-63KT)

VSCS: VERY SEVERE CYCLONIC STORM (64-89 KT)

ESCS: EXTREMELY SEVERE CYCLONIC STORM (90-119 KT)

Sucs: SUPER CYCLONIC STORM @ 120 KT)



# Storm Surge Forecast by INCOIS Model based on 0300 UTC of 3rd December

MANDAL/TALUK	DISTRICT	STATE / UNION TERRITORY	NEAREST PLACE OF HABITATION	STORM SURGE (m)	EXPECTED INUNDATION EXTENT (km)
Tiruvadanai	Ramanathapuram	Tamil Nadu	Marungur	0.8-1.3	Upto 0.69
Ramanathapuram	Ramanathapuram	Tamil Nadu	Pathanendal	0.2-1.1	Upto 0.47
Tirutturaippundi	Nagappattinam	Tamil Nadu	Pointkalimere R.F.	0.7-1.0	Upto 0.20
Arantangi	Pudukkottai	Tamil Nadu	Enadi	0.4-0.8	Upto 0.39
Peravurani	Thanjavur	Tamil Nadu	Sendalaivayal	0.6-0.6	Nil
Ottapidaram	Thoothukkudi	Tamil Nadu	Pattanamarudur	0.5-0.6	Upto 0.14
Pattukkottai	Thanjavur	Tamil Nadu	Palanjur	0.4-0.5	Upto 0.18
Tuticorin	Thoothukkudi	Tamil Nadu	Mappilaiurani	0.2-0.5	Upto 1.9
Vil <mark>attiku</mark> lam	Thoothukkudi	Tamil Nadu	Vaippar	0.4-0.5	Nil

