

#### **India Meteorological Department**

## (Ministry of Earth Sciences)

**BULLETIN NO.: 12(BOB/05/2020)** 

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# Sub: Cyclonic Storm 'Burevi' over southwest Bay of Bengal (Cyclone Alert for South Tamilnadu and South Kerala coasts: Yellow Message)

The **Cyclonic Storm 'Burevi'** over southwest Bay of Bengal moved west-northwestwards with a speed of 12 kmph during past six hours and lay centered at 0230 hrs IST of today, the 02<sup>nd</sup> December 2020 over southwest Bay of Bengal near Lat. 8.2°N and Long. 83.9°E, about 300 km east-southeast of Trincomalee (Sri Lanka), 530 km east-southeast of Pamban (India) and 700 km nearly east of Kanniyakumari (India).

It is very likely to intensify further during next 06 hours. It is very likely to move west-northwestwards and cross Sri Lanka coast between latitude 7.5°N and 9.0°N, close to Trincomalee during evening/night of 2<sup>nd</sup> December as a Cyclonic Storm with a wind speed of 75-85 kmph gusting to 95 kmph. It is very likely to move nearly westwards thereafter, emerge into Gulf of Mannar and adjoining Comorin area on 3<sup>rd</sup> December morning. It would then move nearly west-southwestwards and cross south Tamilnadu coast between Kanniyakumari and Pamban around early morning of 4<sup>th</sup> December.

Forecast track and intensity are given below:

Date/Time(IST)	Position (Lat. ⁰N/ long. ⁰E)	Maximum sustained surface wind speed (Kmph)	Category of cyclonic disturbance
02.12.20/0230	8.2/83.9	65-75 gusting to 85	Cyclonic Storm
02.12.20/0530	8.3/83.4	70-80 gusting to 90	Cyclonic Storm
02.12.20/1130	8.5/82.6	75-85 gusting to 95	Cyclonic Storm
02.12.20/1730	8.7/81.3	75-85 gusting to 95	Cyclonic Storm
02.12.20/2330	8.8/80.7	70-80 gusting to 90	Cyclonic Storm
03.12.20/1130	8.8/79.7	70-80 gusting to 90	Cyclonic Storm
03.12.20/2330	8.7/78.7	70-80 gusting to 90	Cyclonic Storm
04.12.20/1130	8.4/77.5	65-75 gusting to 85	Cyclonic Storm

## Warnings:

# (i) Rainfall

- Heavy to very heavy rainfall at a few places with isolated Extremely heavy falls very likely over south Tamilnadu (Kanniyakumari, Tirunelveli, Thoothukudi, Tenkasi, Ramanathapuram and Sivagangai) on 2<sup>nd</sup> and 3<sup>rd</sup> December, 2020; over south Kerala (Thiruvananthapuram, Kollam, Pathanamthitta and Alappuzah) on 3<sup>rd</sup> December and isolated heavy to very heavy rainfall likely over south Tamilnadu on 2<sup>nd</sup> & 4<sup>th</sup> December 2020 and south Kerala on 3<sup>rd</sup> & 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 2<sup>nd</sup> & 3<sup>rd</sup> December, isolated heavy rainfall on 4<sup>th</sup> December.
- Heavy rainfall at isolated places very likely over south Coastal Andhra Pradesh on 2<sup>nd</sup> & 03<sup>rd</sup>
   December and over Lakshadweep on 03<sup>rd</sup> & 4<sup>th</sup> December, 2020.

<b>Sub-Divisions</b>	02 Dec 2020*	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 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 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 isolated places	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 many places with heavy to very heavy rainfall at isolated places	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	Rainfall at a few places
Lakshadweep	Rainfall at most places	Rainfall at most places with heavy to very falls at isolated places	Rainfall at most places with heavy to very falls at isolated places

## (ii) Wind warning

- Squally wind speed reaching 65-75 kmph gusting to 85 kmph very likely over southwest and adjoining Southeast Bay of Bengal during next 06 hours.
- It would gradually increase and becoming 70-80 kmph gusting to 90 kmph over southwest Bay of Bengal, along & off Sri Lanka coast from morning to night of 2<sup>nd</sup> December and decrease thereafter.
- Squally wind speed reaching 45-55 kmph gusting to 65 kmph very likely over Comorin Area, Gulf of Mannar and along and off south Tamilnadu coast (Kanniyakumari, Tirunelveli, Thoothukudi and Ramanathapuram districts) and south Kerala coast (Thiruvananthapuram, Kollam, Pathanamthitta and Alappuzah districts) from 2<sup>nd</sup> December forenoon. It will gradually increase becoming 55-65 kmph gusting to 75 kmph from 2<sup>nd</sup> December evening and 70-80 kmph gusting to 90 kmph from evening of 3<sup>rd</sup> December for subsequent 12 hours 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 from 3<sup>rd</sup> December morning for next 48 hours.

## (iii) Sea condition

- Sea conditions is very rough to high over southwest and adjoining Southeast Bay of Bengal during next 06 hours and gradually improve thereafter over Southeast Bay of Bengal.
- Sea conditions is very rough to high over southwest Bay of Bengal and along & off east Sri Lanka coast and the same will continue till night of 2<sup>nd</sup> December and gradually improve thereafter.
- It will be rough to very rough over Comorin Area, Gulf of Mannar & along & off south Tamilnadu-Kerala and west Sri Lanka coast on 2<sup>nd</sup> and very rough to high on 3<sup>rd</sup> and 4<sup>th</sup> December.
- Sea condition will be rough to very rough over Lakshadweep-Maldives area and adjoining southeast Arabian Sea during 3<sup>rd</sup> – 4<sup>th</sup> December.

#### (iv) Fishermen warning

- Total suspension of fishing operation during 2<sup>nd</sup> to 4<sup>th</sup> December over the areas as mentioned below.
- Fishermen are advised not to venture into southeast Bay of Bengal during 06 hours, southwest Bay of Bengal and along & off east Sri Lanka coast from 2<sup>nd</sup> to 3<sup>rd</sup> December; Comorin Area, Gulf of Mannar and south Tamilnadu-Kerala and west Sri Lanka coasts from 2<sup>nd</sup> to 4<sup>th</sup> December, over Lakshadweep-Maldives area & adjoining southeast Arabian Sea from 3<sup>rd</sup> to 4<sup>th</sup> December.
- Fishermen out at Sea are advised to return to the coast.

The next bulletin will be issued at 0830 hrs IST of 2<sup>nd</sup> December, 2020.

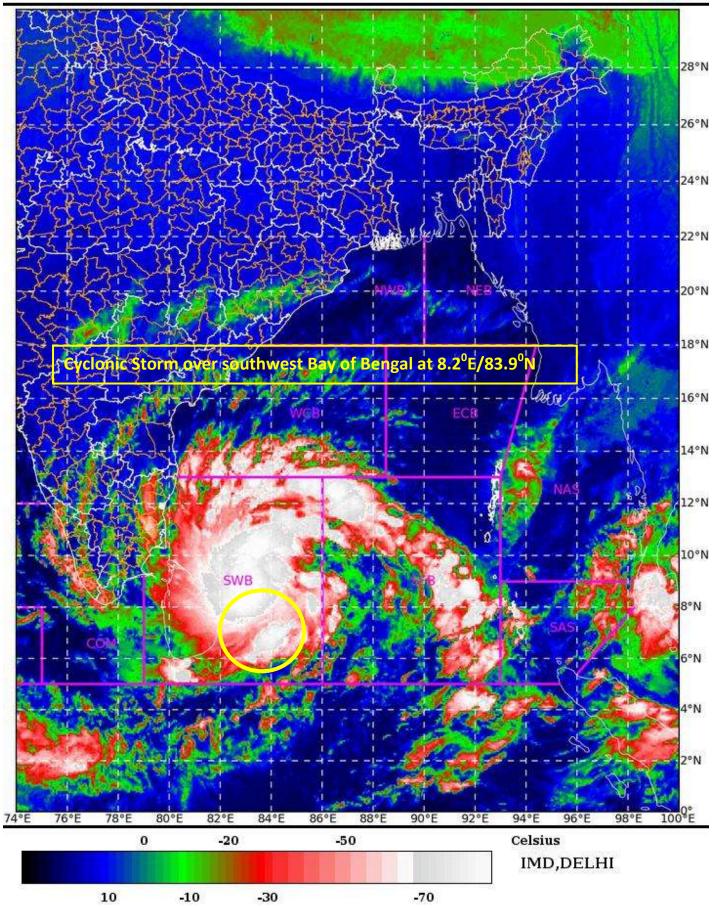
(D. R. Pattanaik) Scientist-F, RSMC, New Delhi

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

SAT : INSAT-3D IMG IMG\_TIR1\_TEMP 10.8 um 01-12-2020/(2300 to 2326) GMT 02-12-2020/(0430 to 0456) IST

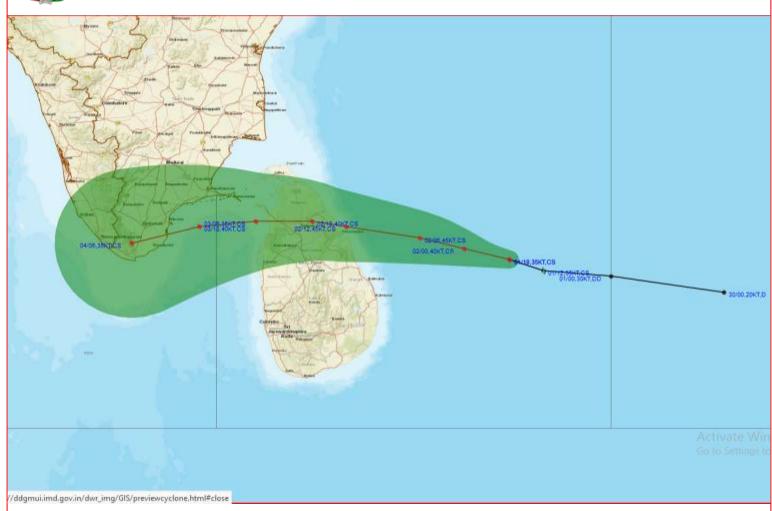


L1C Mercator





OBSERVED AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINITY OF CYCLONIC STORM "BUREVI" OVER SOUTHWEST BAY OF BENGAL BASED ON 1800 UTC OF 1st DECEMBER, 2020.



DATE/TIME IN UTC IST=UTC + 0530

L: LOW PRESSURE AREA

WML: WELL MARKED LOW PRESSURE AREA

D: DEPRESSION (17-27 KT)

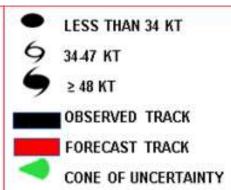
DD: DEEP DEPRESSION (28-33 KT) CS: CYCLONIC STORM (34-47 KT)

SCS: SEVERE CYCLONIC STORM (48-63KT)

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

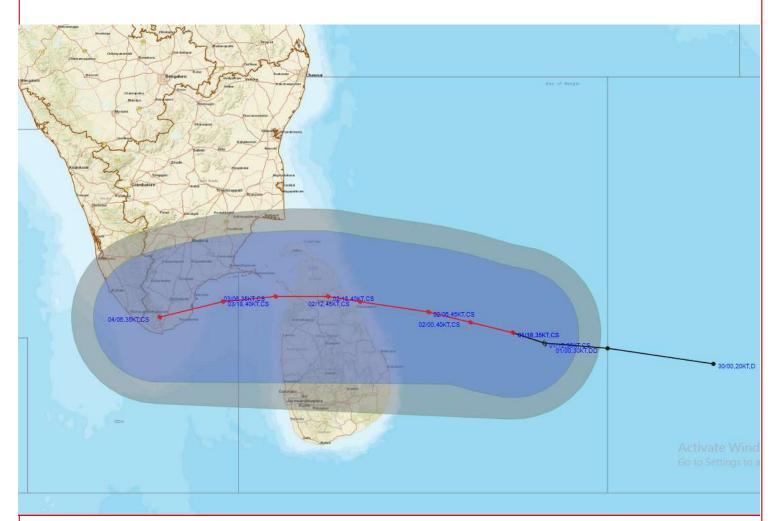
ESCS: EXTREMELY SEVERE CYCLONIC STORM (90-119 KT)

Sucs: SUPER CYCLONIC STORM (2 120 KT)





OBSERVED AND FORECAST TRACK ALONGWITH QUADRANT WIND DISTRIBUTION OF CYCLONIC STORM "BUREVI" OVER SOUTHWEST BAY OF BENGAL BASED ON 1800 UTC OF 1st 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 @ 120 KT)

•	LESS THAN 34 KT
6	34.47 KT
6	≥ 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)
	≥ 64 KT (≥118 KMPH)

	IMPACT O	VER THE SEA		
MSW (knot/kmph) Impact Action				
28-33 (52-61)	Very rough seas	Total suspension of fishing operations		
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		

## STORM SURGE HEIGHT INFORMATION:

\* The below listed surge heights are over and above astronomical tide.

MANDAL/TALUK	DISTRICT	STATE / UNION TERRITORY	NEAREST PLACE OF HABITATION	STORM SURGE (m)	EXPECTED INUNDATION EXTENT (km)
Arantangi	Pudukkottai	Tamil Nadu	Manamelkudi	0.2-0.3	Nil
Peravurani	Thanjavur	Tamil Nadu	Adaikkathevan	0.2-0.3	Nil
Ramanathapuram	Ramanathapuram	Tamil Nadu	Devipattinam	0.2-0.6	Upto 0.57
Tiruvadanai	Ramanathapuram	Tamil Nadu	Vattanam	0.3-0.5	Upto 0.12

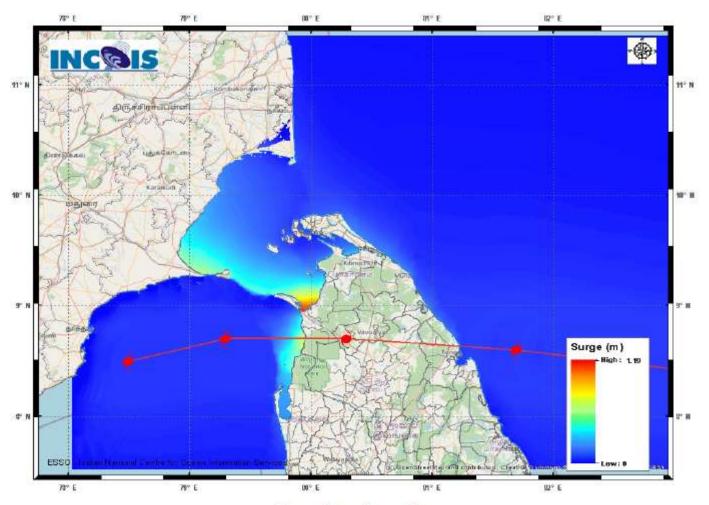


Figure:Storm Surge Map

Storm Surge Forecast by INCOIS Model