



## India Meteorological Department

(Ministry of Earth Sciences)

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**Sub: Depression over southeast Bay and adjoining southwest Bay of Bengal & neighbourhood (Pre-Cyclone Watch for South Tamilnadu and South Kerala coasts)**

The **Depression** over southeast Bay of Bengal moved westwards with a speed of 7 kmph during past six hours and lay centered at 1730 hrs IST of today, the 30<sup>th</sup> November 2020 over southeast and adjoining southwest Bay of Bengal near Lat. 7.7° N and Long. 87.0°E, about 640 km east-southeast of Trincomalee (Sri Lanka) and 1040 km east of Kanniyakumari (India). It is very likely to intensify further into a Deep Depression during next 12 hours and into a cyclonic storm during subsequent 12 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. It is very like to move nearly westwards thereafter and emerge into Comorin area on 3<sup>rd</sup> December morning.

Forecast track and intensity are given below:

Date/Time(IST)	Position (Lat. °N/ long. °E)	Maximum sustained surface wind speed (Kmph)	Category of cyclonic disturbance
30.11.20/1730	7.7/87.0	45-55 gusting to 65	Depression
30.11.20/2330	7.8/86.6	50-60 gusting to 70	Deep Depression
01.12.20/0530	7.9/85.9	55-65 gusting to 75	Deep Depression
01.12.20/1130	8.1/85.3	60-70 gusting to 80	Cyclonic Storm
01.12.20/1730	8.2/84.6	65-75 gusting to 85	Cyclonic Storm
02.12.20/0530	8.4/83.2	70-80 gusting to 90	Cyclonic Storm
02.12.20/1730	8.6/81.7	75-85 gusting to 95	Cyclonic Storm
03.12.20/0530	8.4/80.0	60-70 gusting to 80	Cyclonic Storm
03.12.20/1730	8.2/79.0	70-80 gusting to 80	Cyclonic Storm

**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) 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 1<sup>st</sup> and 4<sup>th</sup> December 2020 and south Kerala on 2<sup>nd</sup> and 4<sup>th</sup> December, 2020.
- Heavy to very heavy rainfall at Isolated places very likely over north Tamilnadu, Puducherry, Mahe & Kariakal and north Kerala during 2<sup>nd</sup> and 3<sup>rd</sup> December, 2020 and isolated heavy rainfall on 1<sup>st</sup> and 4<sup>th</sup> December.
- Heavy rainfall at isolated places very likely over south Coastal Andhra Pradesh during 2<sup>nd</sup> & 03<sup>rd</sup> December and over Lakshadweep during 03<sup>rd</sup> and 4th December, 2020.

Sub-Divisions	30 Nov 2020*	01 Dec 2020*	02 Dec 2020*	03 Dec 2020*	04 Dec 2020*
South Tamilnadu	Rainfall at a few places	Rainfall at many places with 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 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 isolated places	Rainfall at a few places with heavy rainfall at isolated places	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 isolated places	Rainfall at many places with heavy rainfall at isolated places	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 isolated places	Rainfall at many places with heavy rainfall at isolated places	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 isolated places	Rainfall at isolated places	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 a few places	Rainfall at a few places	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

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 reaching 45-55 kmph gusting to 65 kmph very likely over central parts of South Bay of Bengal on 30<sup>th</sup> November.
- It would gradually increase becoming 55-65 kmph gusting to 75 kmph over southeast and adjoining southwest Bay of Bengal from 30<sup>th</sup> November night. It would gradually increase becoming gale wind speed reaching 70-80 kmph gusting to 90 kmph over southwest Bay of Bengal, along & off Sri Lanka coast from 2<sup>nd</sup> December morning for subsequent 24 hours.
- Squally wind speed reaching 45-55 kmph gusting to 65 kmph very likely over Comorin Area, Gulf of Mannar and south Tamilnadu-Kerala coasts from 2<sup>nd</sup> December forenoon. It will gradually increase becoming 55-65 kmph gusting to 75 kmph over Gulf of Mannar, along & off south Tamilnadu & Kerala coasts, over Comorin Area, Lakshadweep-Maldives area and adjoining southeast Arabian Sea from 3<sup>rd</sup> December morning for subsequent 48 hours.

## (iii) Sea condition

- Sea condition will be rough to very rough over southeast Bay of Bengal from 30<sup>th</sup> November to 1<sup>st</sup> December and very rough to high over southwest & adjoining southeast Bay of Bengal and along & off east Sri Lanka coast during 1<sup>st</sup> & 2<sup>nd</sup> December, and rough to very rough over Comorin Area, Gulf of Mannar & along & off south Tamilnadu-Kerala coasts from 2<sup>nd</sup> to 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 30<sup>th</sup> November to 4<sup>th</sup> December** over the areas as mentioned below.
- Fishermen are advised not to venture into southeast Bay of Bengal from 30<sup>th</sup> Nov to 1<sup>st</sup> Dec, southwest Bay of Bengal and along & off east Sri Lanka coast from **1<sup>st</sup> to 3<sup>rd</sup> December**; Comorin Area, Gulf of Mannar and south Tamilnadu-Kerala 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 by today.

**The next bulletin will be issued at 0230 hrs IST of 01 Dec , 2020.**

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

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

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.



30-11-2020/(1845 to 1911) IST



Depression over southeast Bay of Bengal  
(7.7°N and 87.0°E)

NWB NEB

WCB ECB

NAS

COM SWS

28°N 26°N 24°N 22°N 20°N 18°N 16°N 14°N 12°N 10°N 8°N 6°N 4°N 2°N 0°N

74°E 76°E 78°E 80°E 82°E 84°E 86°E 88°E 90°E 92°E 94°E 96°E 98°E 100°E

IMD,DELHI



-70

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





**OBSERVED AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINTY OF DEPRESSION OVER SOUTHEAST AND ADJOINING SOUTHWEST BAY OF BENGAL BASED ON 1200 UTC OF 30<sup>TH</sup> NOVEMBER,**



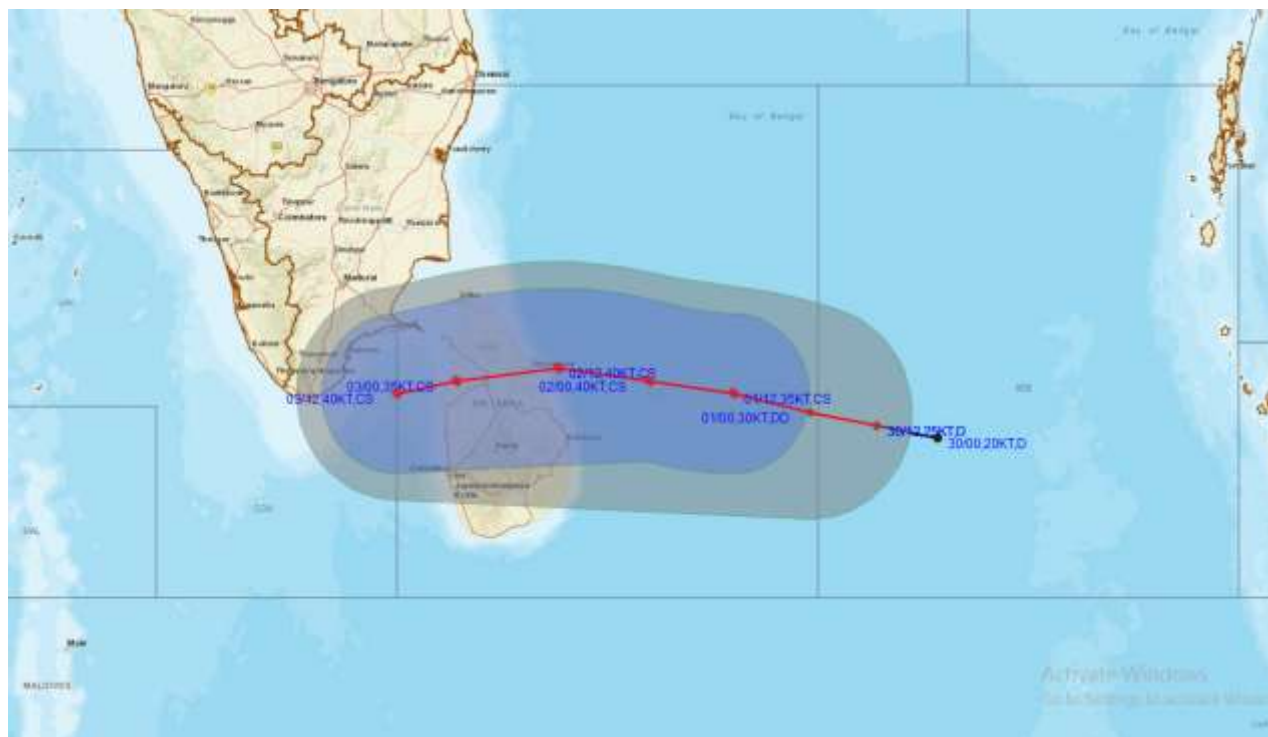
DATE/TIME IN UTC  
IST=UTC + 0530  
L: LOW PRESSURE AREA  
WML: WELL MARKED LOW PRESSURE AREA  
D: DEPRESSION (17-27 KT)  
DD: DEEP DEPRESSION (28-33 KT)  
CS: CYCLONIC STORM (34-47 KT)  
SCS: SEVERE CYCLONIC STORM (48-63KT)  
VSCS: VERY SEVERE CYCLONIC STORM (64-89 KT)  
ESCS: EXTREMELY SEVERE CYCLONIC STORM (90-119 KT)  
SuCS: SUPER CYCLONIC STORM ( $\geq$  120 KT)

● LESS THAN 34 KT  
⤵ 34-47 KT  
⤵  $\geq$  48 KT  
— OBSERVED TRACK  
— FORECAST TRACK  
▲ CONE OF UNCERTAINTY

Spatial rainfall distribution: Isolated:  $\leq 25\%$ , 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 AND FORECAST TRACK ALONGWITH QUADRANT WIND DISTRIBUTION OF DEPRESSION OVER SOUTHEAST AND ADJOINING SOUTHWEST BAY OF BENGAL BASED ON 1200 UTC OF 30<sup>TH</sup> NOVEMBER, 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 (48-63 KT)  
 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  
 ○ 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)  
 ■ ≥ 64 KT (≥ 118 KMPH)

## **IMPACT OVER 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

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.