



**Government of India
Ministry of Earth Sciences
India Meteorological Department**

Press Release

Date: 30th November, 2021

Time of Issue: 1430 hrs IST

Subject: (i) Wet Spell accompanied with isolated thunderstorms & lightning over Gujarat, north Maharashtra and Northwest & adjoining Central India during 01st-03rd December.

ii) Likely emergence of a Low Pressure Area over Andaman Sea during next 12 hours and its intensification into a Cyclonic Storm over central Bay of Bengal around 3rd December 2021.

Significant Rainfall during past 24 hours recorded at 0830 hrs IST of today: (Annexure I.)

i) Wet Spell accompanied with isolated thunderstorms & lightning over Gujarat, north Maharashtra and Northwest & adjoining Central India during 01st-03rd December.

- **A Low Pressure Area is likely to form over Eastcentral Arabian sea off Maharashtra coast during next 24 hours.**
- **A trough at mean sea level runs from the above cyclonic circulation to north Maharashtra coast in the lower levels.**
- **A Western Disturbance lies as a trough in mid & upper tropospheric westerlies roughly along Long. 58°E to the north of Lat. 15°N.**

Due to interaction of above Western Disturbance with the trough in the lower level easterly, regions of West, Northwest & adjoining Central India likely to experience wet spell during 1-3 December.

Forecast and warnings:

- ✓ Fairly widespread to widespread rain/thunderstorm with isolated **heavy to very heavy rainfall** accompanied with **thunderstorms with lightning** at isolated places likely over Gujarat Region, north Madhya Maharashtra and north Konkan on 01st December and **isolated heavy rainfall** over Gujarat Region and north Madhya Maharashtra on 02nd December. **(Annexure II).**
- ✓ Isolated to scattered rainfall accompanied with **thunderstorm/lightning** likely over West Madhya Pradesh, East Rajasthan, Haryana, West Uttar Pradesh during 02nd & 03rd with maximum activity on 02nd December. **Isolated heavy rainfall** likely over southeast Rajasthan on 02nd December.
- ✓ Scattered to fairly widespread rainfall/snowfall accompanied with isolated thunderstorm/lightning likely over Uttarakhand and Himachal Pradesh during 02nd-03rd December with maximum activity on 02nd December. **Isolated heavy rainfall/snowfall** likely over Uttarakhand and Himachal Pradesh on 02nd December.

ii) Likely emergence of a Low Pressure Area over Andaman Sea during next 12 hours and its intensification into a Cyclonic Storm over central Bay of Bengal around 3rd December 2021.

- ✓ A low pressure lay over south Thailand & neighbourhood at 0830 hrs IST of today, the 30th November 2021. It is likely to emerge into Andaman Sea during next 12 hours. Thereafter it is likely to move west-northwestwards and concentrate into a Depression over southeast & adjoining east-central Bay of Bengal by 2nd December and intensify into a Cyclonic Storm over central parts of the Bay of Bengal during the subsequent 24 hours. Subsequently, it is likely to move northwestwards, intensify further and reach north Andhra Pradesh – Odisha coasts around 4th December morning.

Forecast and warnings:

Rainfall (Annexure II).

30th Nov.: Light to moderate rainfall at most places with **heavy to very heavy rainfall falls** at isolated places very likely over Andaman & Nicobar Islands.

1st Dec.: Light to moderate rainfall at most places with **heavy to very heavy rainfall at a few places & extremely heavy falls at isolated places** very likely over Andaman & Nicobar Islands.

2nd Dec.: Light to moderate rainfall at most places **with heavy rainfall** at isolated places very likely over Andaman & Nicobar Islands.

3rd Dec.: Light to moderate rainfall at many places with **heavy rainfall** at isolated places very likely to commence over north coastal Andhra Pradesh and south coastal Odisha from evening / night.

4th Dec.: Light to moderate rainfall at most places **with heavy to very heavy rainfall & extremely heavy falls** at isolated places very likely over **coastal Odisha** and heavy to very heavy rainfall at isolated places over adjoining interior districts of Odisha, coastal districts of West Bengal and north coastal Andhra Pradesh.

5th Dec.: Light to moderate rainfall at most places with **heavy to very heavy rainfall** at isolated places likely over West Bengal and adjoining north coastal Odisha.

It is likely that the north eastern states would also experience enhanced rainfall activity on 5th & 6th December, with isolated heavy to very heavy rainfall owing to the likely northeastward movement of the remnant of the system during the same period.

Wind warning (Annexure III)

Squally wind speed reaching 40-50 kmph gusting to 60 kmph likely to prevail over Andaman Sea, today 30th November. It would increase gradually becoming 45-55 kmph gusting to 65 kmph over Andaman Sea, Andaman & Nicobar Islands and adjoining southeast Bay of Bengal, tomorrow, the 1st December.

It would further increase to wind speed reaching 50-60 kmph gusting to 70 kmph over southeast & adjoining east-central Bay of Bengal, Andaman & Nicobar Islands & Andaman Sea on 2nd December.

Gale winds speed reaching 65-75 kmph gusting to 85 kmph likely to prevail over central Bay of Bengal from the early morning of 3rd December and gradually increase becoming 90-100 kmph gusting to 110 kmph over northwest & adjoining west-central Bay of Bengal from the morning of 4th December for the subsequent 24 hours.

Squally wind speed reaching 45-55 kmph gusting to 65 kmph likely to commence along & off North Andhra Pradesh – Odisha coast from the mid-night of 3rd December and increase gradually becoming 70-80 kmph gusting to 90 kmph from 4th Afternoon, for the subsequent 12 hours. Squally wind speed reaching 45-55 kmph gusting to 65 kmph also likely to commence along & off West Bengal coast from 4th December morning and become Gale wind speed reaching 60-70 kmph gusting to 80 kmph from the evening of 4th December for the subsequent 12 hours.

Sea condition

Sea condition will be rough to very rough over Andaman Sea, today 30th November, over Andaman Sea, along & off Andaman & Nicobar Islands and adjoining southeast Bay of Bengal, tomorrow, the 1st December.

Sea condition would become very rough to High over southeast & adjoining east-central Bay of Bengal, Andaman & Nicobar Islands & Andaman Sea on 2nd December.

Sea condition would be High over central Bay of Bengal and High to very High over west-central & adjoining northwest Bay of Bengal from the early morning of 4th December for the subsequent 24 hours.

Sea condition will be rough to very rough over along & off North Andhra Pradesh – Odisha coast from the mid-night of 3rd December and become High to very High from 4th Afternoon, for the subsequent 12 hours. It will be very rough to High along & off West Bengal coast from 4th morning and High to very High from the same evening for the subsequent 12 hours.

Fishermen Warning (in association with the likely formation of the system) (Annexure III)

Fishermen are advised not to venture into Andaman Sea during 30th November – 2nd December 2021, over southeast & adjoining east-central Bay of Bengal on 2nd & 3rd December, over west-central & adjoining northwest Bay of Bengal and along & off north Andhra Pradesh - Odisha- West Bengal coasts during 3rd - 5th December 2021.

Fishermen out at Sea are advised to return to coast by the morning of 2nd December 2021.

Advisory to along & off shore Installations

The off-shore & alongshore operations along north Andhra Pradesh, Odisha & West Bengal coasts are advised to be judiciously regulated on 3rd December and to be suspended on 4th December 2021, to ensure safety of life & property.

For more details refer:

https://mausam.imd.gov.in/imd_latest/contents/subdivisionwise-warning.php

https://rsmcnewdelhi.imd.gov.in/uploads/archive/1/1_e71398_SPECIAL%20MESSAG E%20dated%2030-11-21.pdf

EXPECTED IMPACT & ACTION SUGGESTED due to;

- I. **Isolated Extremely Heavy Rainfall** over Andaman & Nicobar Islands on 01st December and over coastal Odisha on 04th December;
- II. **Very Heavy Rainfall** over Andaman & Nicobar Islands on 30th Nov; over Gujarat Region, north Madhya Maharashtra & north Konkan on 02nd December, over Gangetic West Bengal on 04th December; over north Coastal Andhra Pradesh on 03rd & 04th December, 2021.

A. Impact Expected

- Localized Flooding of roads, inundation and water logging in low lying areas and closure of underpasses mainly in urban areas of the affected region.
- Occasional reduction in visibility due to heavy rainfall.
- Disruption of traffic in major cities due to water logging in roads leading to increased travel time.
- Minor damage to kutcha roads.
- Possibilities of damage to vulnerable structure.
- Localized Landslides/Mudslides
- Damage to horticulture and standing crops in some areas due to inundation.
- It may lead to riverine flooding in some river catchments (for riverine flooding please visit Web page of CWC)

B. Action Suggested

- Check for traffic congestion on your route before leaving for your destination.
- Follow any traffic advisories that are issued in this regard.
- Avoid going to areas that face the water logging problems often.
- Avoid staying in vulnerable structure.
- Harvest the ripen crops like Paddy & Horticultural crops and also secure the harvested crops securely from the damage due to rain and strong winds.

Annexure I

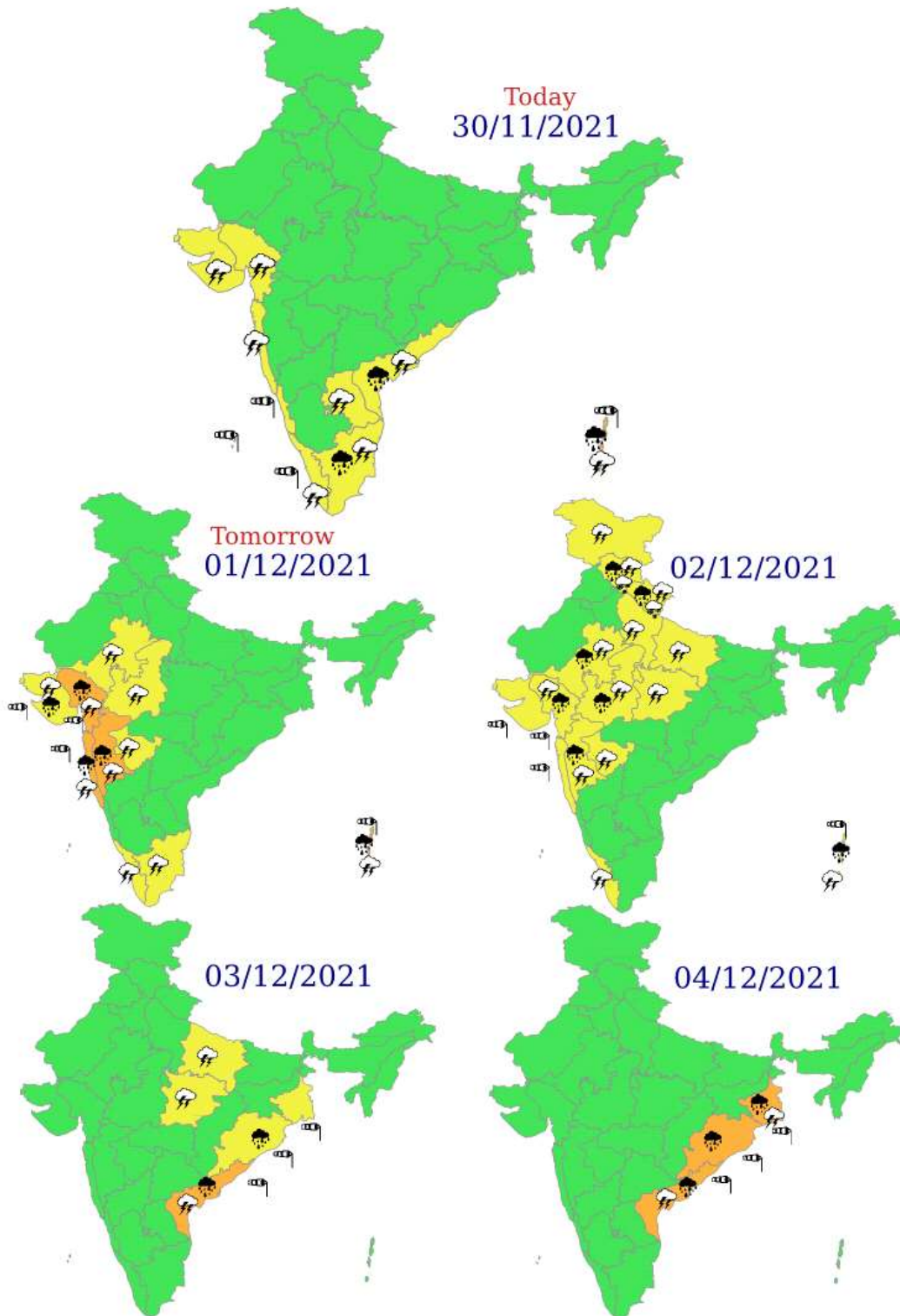
Significant amount of Rainfall (from 0830 hrs IST of yesterday to 0830 hours IST of today) (7 cm or more):

Coastal Andhra Pradesh: Nellore: Seetharamapuram-11, Vinjamur-9; Prakasam: Veligandla-10

Rayalseema: YSR: Porumamilla-9

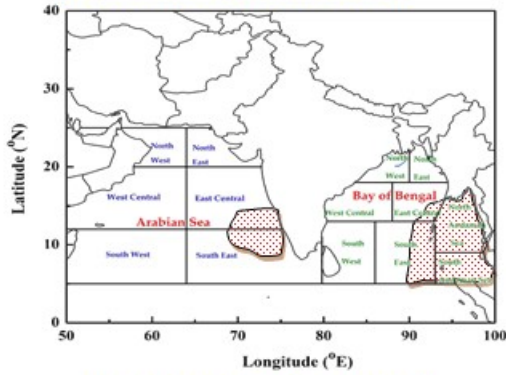
Tamilnadu, Puducherry & Karaikal: Theni: Veerapandi-12; **Sivaganga:** Tirupuvanam-10; **Tirunelveli:** Ambasamudram, Manimutharu-8 each, Papanasam-9; **Toothukudi:** Kayalpattinam-9; **Kancheepuram:** Uthiramerur-9; **Ramanathapuram:** Mandapam, Paramakudi-8 each, Rameswaram-7; **Tenkasi:** Ayikudi-8; **Virudhunagar:** Kovilankulam, Sivakasi-7 each, **Madurai:** Madurai Airport-7.

(Annexure II)

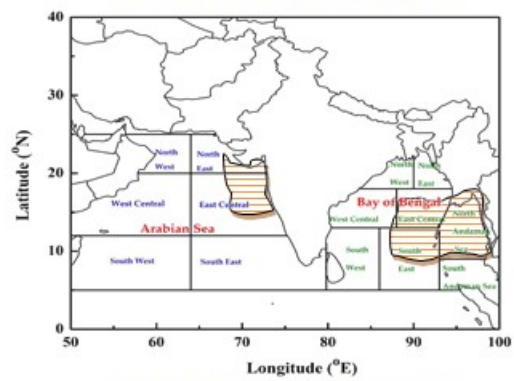


INDIA METEOROLOGICAL DEPARTMENT
FISHERMAN WARNING FOR BAY OF BENGAL AND ARABIAN SEA

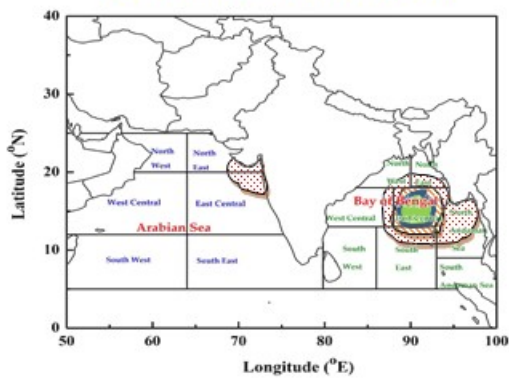
DAY-1: 30.11.2021/0600 UTC TO 01.12.2021/0600 UTC



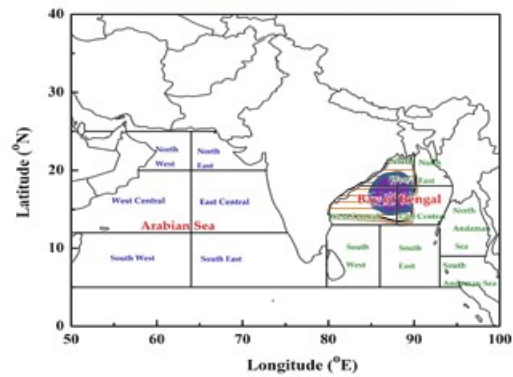
DAY-2: 01.12.2021/0600 UTC TO 02.12.2021/0600 UTC



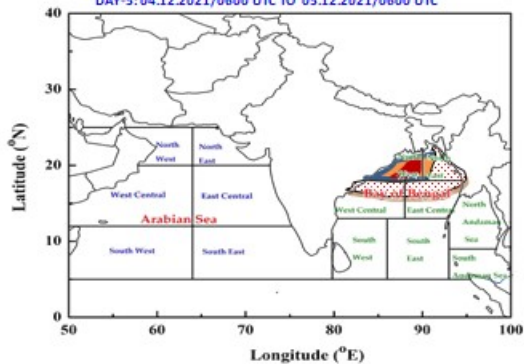
DAY-3: 02.12.2021/0600 UTC TO 03.12.2021/0600 UTC



DAY-4: 03.12.2021/0600 UTC TO 04.12.2021/0600 UTC



DAY-5: 04.12.2021/0600 UTC TO 05.12.2021/0600 UTC



AREA UNDER FISHERMEN WARNING

-  40-50 KMPH G TO 60 KMPH (SQ.WEATHER)
-  45-55 KMPH GUSTING TO 65 KMPH
-  50-60 KMPH G TO 70 KMPH
-  60-70 KMPH G TO 80 KMPH
-  65-75 KMPH G TO 85 KMPH
-  70-80 KMPH G TO 90 KMPH
-  90-100 KMPH G TO 110 KMPH

Legends:

Heavy Rain: 64.5 to 115.5 mm; **Very Heavy Rain:** 115.6 to 204.4 mm; **Extremely Heavy Rain:** >204.4 mm.

Region wise classification of meteorological Sub-Divisions:

- 1) **Northwest India:** Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad; Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi; West Uttar Pradesh, East Uttar Pradesh, West Rajasthan and East Rajasthan.
- 2) **Central India:** West Madhya Pradesh, East Madhya Pradesh, Vidarbha and Chhattisgarh.
- 3) **East India:** Bihar, Jharkhand, Sub-Himalayan West Bengal & Sikkim; Gangetic West Bengal, Odisha and Andaman & Nicobar Islands.
- 4) **Northeast India:** Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.
- 5) **West India:** Gujarat Region, Saurashtra & Kutch, Konkan & Goa, Madhya Maharashtra and Marathwada.
- 6) **South India:** Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Coastal Karnataka, North Interior Karnataka, South Interior Karnataka, Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal and Lakshadweep.

SPATIAL DISTRIBUTION (% of Stations reporting)			
% Stations	Category	% Stations	Category
76-100	Widespread (WS/ Most Places)	26-50	Scattered (SCT/ A Few Places)
51-75	Fairly Widespread (FWS/ Many Places)	1-25	Isolated (ISOL)



Heavy Rain



Strong Winds



Thunderstorm with Lightning

WARNING

WARNING (TAKE ACTION)

ALERT (BE PREPARED)

WATCH (BE UPDATED)

NO WARNING (NO ACTION)

Probabilistic Forecast

Terms	Probability of Occurrence (%)
Unlikely	< 25
Likely	25 - 50
Very Likely	50 - 75
Most Likely	> 75