



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

**Press Release
Date: 28th November, 2021
Time of Issue: 1330 hrs IST**

**Subject: i) Wet Spell over Gujarat, north Maharashtra and Northwest & adjoining Central India during 01st-03rd December with intense rainfall activity over Gujarat and north Konkan.
ii) Decrease in rainfall activity over Tamil Nadu from 29th November, 2021.
iii) A Low Pressure Area is likely to form over south Andaman Sea around 30th November.**

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

Weather Systems and warnings:

i) Wet Spell over Gujarat, north Maharashtra and Northwest & adjoining Central India during 01st-03rd December with intense rainfall activity over Gujarat and north Konkan

A fresh active Western Disturbance is likely to affect Northwest & adjoining Central India from the night of 30th November, 2021. Under the influence of this trough in mid-latitude westerlies at mid & upper tropospheric levels and its likely interaction with lower level trough in easterlies causing high moisture incursion:

- ✓ Scattered to fairly widespread rain/thunderstorm likely over Gujarat, north Maharashtra and adjoining areas of southwest Madhya Pradesh and south Rajasthan during 30th November-02nd December with peak rainfall activity on 01st Dec.
- ✓ Isolated heavy to very heavy rainfall likely over Gujarat State on 01st December and isolated heavy rainfall over Gujarat Region on 02nd December. Isolated heavy rainfall also likely over north Konkan on 01st December.
- ✓ Isolated to scattered rainfall accompanied with thunderstorm/lightning likely over West Madhya Pradesh, East Rajasthan, Haryana, West Uttar Pradesh during 01st-02nd with maximum activity on 02nd December.
- ✓ Scattered to fairly widespread rainfall/snowfall accompanied with isolated thunderstorm/lightning likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Uttarakhand and Himachal Pradesh during 01st-02nd with maximum activity on 02nd December.

ii) Decrease in rainfall activity over Tamil Nadu from 29th November, 2021

A cyclonic circulation lies over Comorin Area & adjoining Sri Lanka coasts in the lower levels and strong northeasterly winds are prevailing over Tamilnadu coast & south Coastal Andhra Pradesh at lower levels to the north of the circulation. The circulation is likely to emerge in the Arabian Sea on 29th November and move north-northwestwards thereafter. Under its influence:

- ✓ Light to moderate fairly widespread/widespread rainfall very likely over Tamilnadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep area and Scattered to fairly widespread rainfall over south Coastal Andhra Pradesh & Yanam, Rayalaseema during next 2 days and **significant decrease thereafter**.
- ✓ **Isolated heavy to very heavy rainfall** very likely over Tamilnadu, Puducherry & Karaikal during 28th-29th November and over south Coastal Andhra Pradesh and adjoining Rayalaseema on 28th November, 2021. **Isolated heavy rainfall** very likely over Kerala & Mahe during 28th-29th November. **(Annexure II)**.

iii) A Low Pressure Area is likely to form over south Andaman Sea around 30th November.

- ✓ A **Low Pressure Area** is likely to form over south Andaman Sea around 30th November, 2021. It is likely to become more marked and move west-northwestwards during subsequent 48 hours.
- ✓ Under its influence, **isolated heavy rainfall** likely over Andaman & Nicobar Islands during 30th November-02nd December and **isolated very heavy rainfall** on 01st December.
- ✓ Under its influence, rainfall likely to increase over North Coastal Andhra Pradesh and Odisha from the night of 03rd Dec 2021.

Sea Area Warning (Annexure III):

- **Squally wind** (speed reaching 40-50 kmph gusting to 60 kmph) very likely over Comorin area, Gulf of Mannar, Southwest & adjoining Westcentral Bay of Bengal along & off Tamilnadu-south Andhra Pradesh coasts on 28th November.
- **Squally weather** with maximum sustained wind speed reaching 40-50 gusting to 60 kmph is likely to prevail over Eastcentral Arabian Sea and along & off Karnataka-Goa coasts on 29th; over Eastcentral & adjoining Northeast Arabian Sea and along & off Karnataka-Maharashtra- south Gujarat coasts on 30th and over Northeast & adjoining Eastcentral Arabian Sea and along & off Gujarat-north Maharashtra coasts on 01st & 02nd December.
- **Squally weather** with maximum sustained wind speed reaching 40-50 gusting to 60 kmph is likely to prevail over south Andaman Sea on 29th; over south Andaman Sea and adjoining southeast Bay of Bengal on 30th. Squally wind, speed reaching 45-55 gusting to 65 kmph, over Southeast adjoining Eastcentral Bay of Bengal and Andaman Sea on 01st December and wind speed reaching 50-60 gusting to 70 kmph over Central & adjoining Southeast bay of Bengal.
- **Fishermen are advised not to venture into these areas.**

For more details refer:

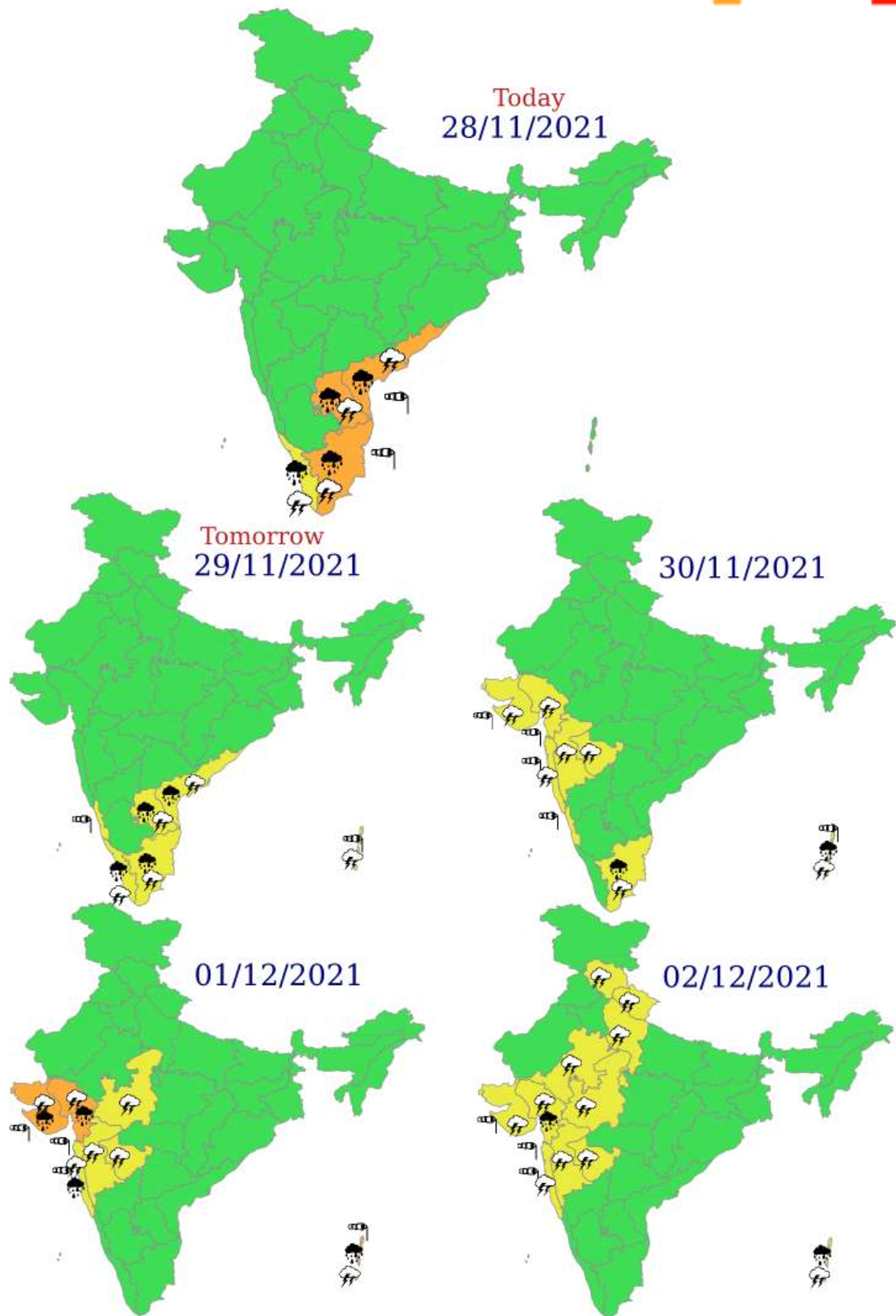
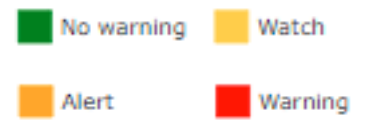
https://mausam.imd.gov.in/imd_latest/contents/subdivisionwise-warning.php

Annexure I

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

Tamilnadu, Puducherry & Karaikal: Ramanathapuram: Pamban-12, Mandapam-11; **Chengalpattu:** Mahabalipuram-11, Chengalpattu, Kelambakkam, Thirupporur-7 each; **Karaikal:** Karaikal-10; **Tiruvarur:** Nannilam-10; **Cuddalore:**Chidambaram-8, Parangipettai, K. M. koil-7 each; **Thanjavur:** Thanjavur-8, Manjalaru-7; **Mayiladuthudrai:** Sirkali-8 each.
Coastal Andhra Pradesh: Nellore: Atmakur-11, Nellore-9.

(Annexure II)



EXPECTED IMPACT & ACTION SUGGESTED due to Isolated Very Heavy Rainfall over Tamilnadu, Puducherry & Karaikal during 28th-29th November and over south Coastal Andhra Pradesh and Rayalaseema on 28th November and over Gujarat State on 01st December, 2021.

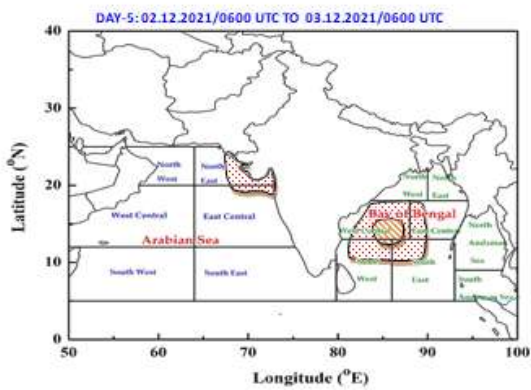
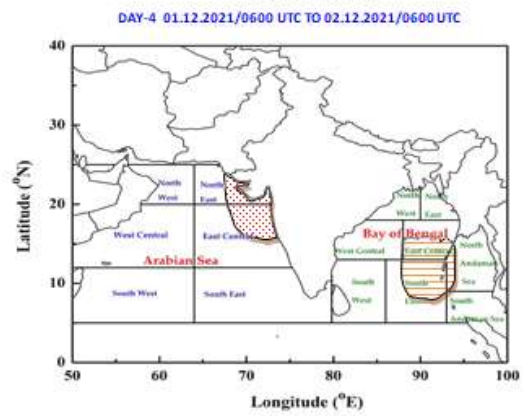
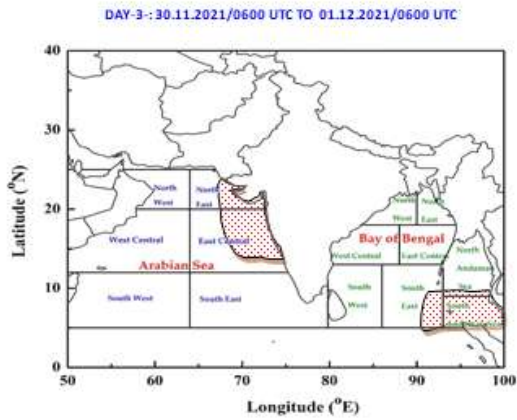
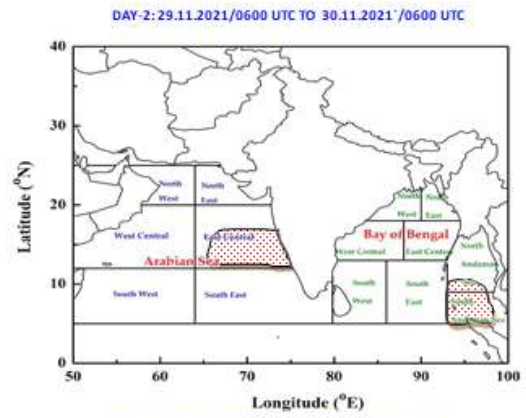
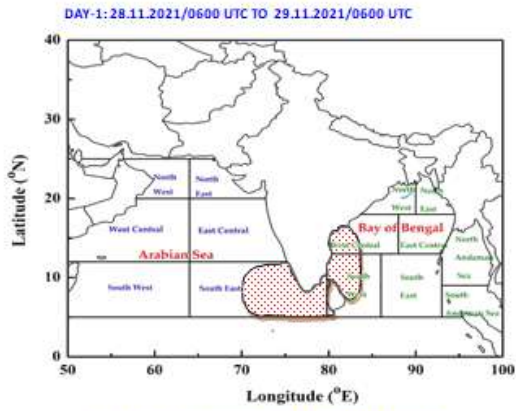
A. Impact Expected

- Localized Flooding of roads, inundation and water logging in low lying areas and closure of underpasses mainly in urban areas of the above 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.

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



AREA UNDER FISHERMEN WARNING

- 40-50 KMPH G TO 60 KMPH (SQ.WEATHER)
- 45-55 KMPH GUSTING TO 65 KMPH (SQ. WEATHER)
- 50-60 KMPH G TO 70 KMPH (SQ/ WEATHER)

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) |



| 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 |