



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

**Press Release**

**Date: 01<sup>th</sup> October, 2021**

**Time of Issue: 1430 hrs IST**

**Subject: (i) Withdrawal of southwest monsoon from some parts of northwest India from around 06<sup>th</sup> October 2021.**

**ii) Increase in rainfall activity over south Peninsular India from 01st October.**

**Rainfall Amount recorded** (from 0830 hours IST of yesterday to 0830 hours IST of today) (7 cm or more): Given at annexure.

**Withdrawal of southwest monsoon 2021:**

- Numerical Weather Prediction models consensus indicate, establishment of westerly & northwesterly winds at lower & middle tropospheric levels over northwest India and development of lower level anti-cyclonic circulation over the region from 5th Oct 2021. Under its influence, drastic reduction in moisture and absence of rainfall over extreme northwestern parts of India is very likely. **Thus conditions are very likely to be favourable for commencement of withdrawal of southwest monsoon from some parts of northwest India from around 6th October 2021.**

**Meteorological features:**

- The Cyclonic storm '**Shaheen**' over northeast Arabian Sea & neighbourhood moved west-northwestwards with a speed of about 20 kmph during past 06 hours and lay centred at 0830 hrs IST of today, the 1st October, 2021, over central parts of north Arabian Sea, near latitude 23.2°N and longitude 64.9 °E, about 440 km west-northwest of Devbhoomi Dwarka (Gujarat), about 490 km east-southeast of Chabahar Port (Iran) and 660 km east-southeast of Muscat (Oman). It is very likely to further intensify into a **Severe Cyclonic Storm** during the next 12 hours and move west-northwestwards skirting Makran coast during next 36 hours. Thereafter it is likely to re-curve west-southwestwards towards Gulf of Oman and weaken gradually. **The system is moving away from Indian coast.**
- A **Low Pressure Area** over southwest Bihar & neighbourhood and the associated cyclonic circulation extends upto 7.6 km above mean sea level.
- A cyclonic circulation lies over central parts of south Bay of Bengal and extends upto 3.1 km above mean sea level.
- The trough in easterly from above cyclonic circulation to Tamilnadu coasts and extends upto 3.1 km above mean sea level.

**Under the influence of the above systems:**

- ✓ Isolated **heavy to very heavy** falls very likely at isolated places over Bihar and Sub-Himalayan West Bengal & Sikkim on 1st, 2nd & 03rd and over southeast Uttar Pradesh on 01st & 02nd. **Heavy** rainfall also very likely at isolated places over Jharkhand and north Chhattisgarh on 01st October, 2021.
- ✓ Rainfall activity is likely to increase over south Peninsular India from today the 01st October onwards with **heavy to very heavy** falls at isolated places very likely over Tamilnadu, Kerala, Lakshadweep and south Interior Karnataka during 01st-05th October. Isolated **extremely heavy rain** also very likely over south Tamilnadu on 01st & 02nd October, 2021.

❖ **Fishermen Warning:**

- **Fishermen** are advised not to venture into northeast Arabian Sea and along & off Gujarat coast during next 12 hours and over north & adjoining central Arabian Sea along & off Pakistan-Makran coasts and Gulf of Oman till 4th October morning.

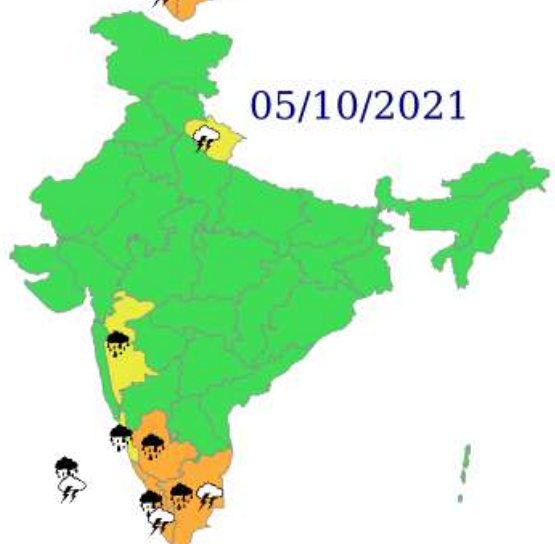
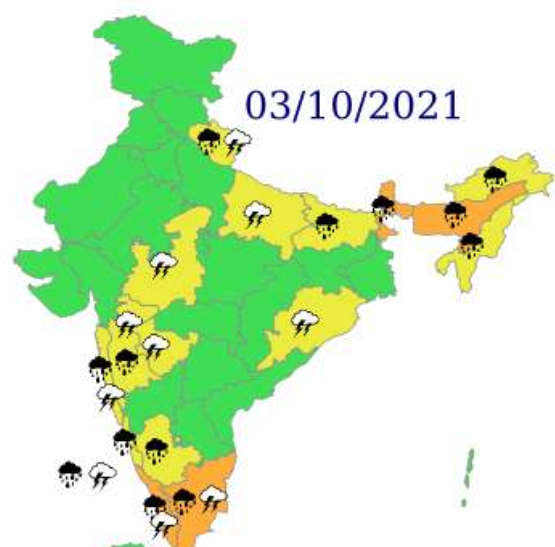
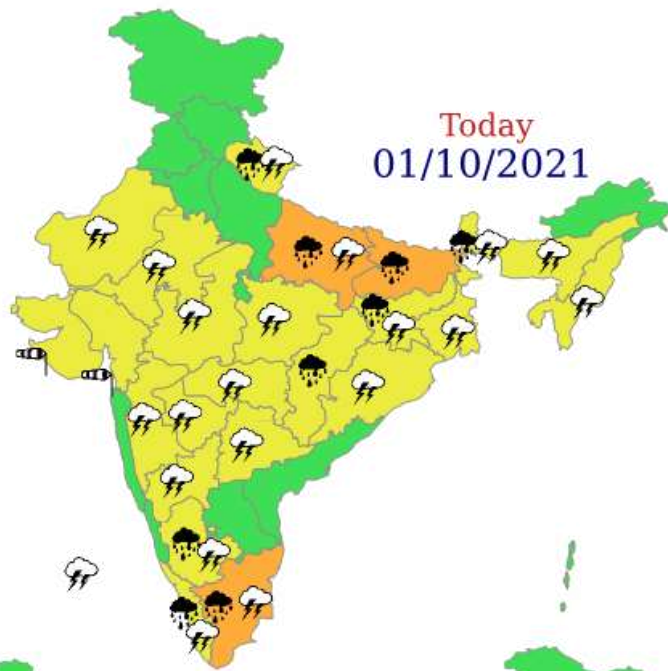
❖ **Wind Warning, Sea Conditions:**

**For details of Wind Warning, Sea Conditions refer**

[https://rsmcnewdelhi.imd.gov.in/uploads/archive/1/1\\_aa5909\\_2.%20National\\_Bulletin\\_2021\\_0930\\_0300UTC.pdf](https://rsmcnewdelhi.imd.gov.in/uploads/archive/1/1_aa5909_2.%20National_Bulletin_2021_0930_0300UTC.pdf)

**For detailed forecast and warning refer:**

[https://mausam.imd.gov.in/imd\\_latest/contents/all\\_india\\_forecast\\_bulletin.php](https://mausam.imd.gov.in/imd_latest/contents/all_india_forecast_bulletin.php)



**EXPECTED IMPACT & ACTION SUGGESTED due to Extremely/Very Heavy Rainfall** over Bihar on 1<sup>st</sup> & 02<sup>nd</sup>; over Sub-Himalayan west Bengal & Sikkim on 2<sup>nd</sup> & 3<sup>rd</sup>, over southeast Uttar Pradesh on 1<sup>st</sup>, over Kerala during 3<sup>rd</sup>-5<sup>th</sup>, over south Interior Karnataka on 4<sup>th</sup> & 5<sup>th</sup> and over Tamilnadu during 1<sup>st</sup>-5<sup>th</sup> October 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 kutchha roads.
- Possibilities of damage to vulnerable structure.
- Localized 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.

## 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.

<b>SPATIAL DISTRIBUTION</b> (% 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

**24-hour accumulated rainfall (7 cm or more) realised over the country:**

**Tamilnadu, Puducherry & karaikal:** Pudukkottai-19; Sivaganga, Madurai-12 each; Dindigul, Trichy-11 each, Erode-10, Namakkal-9, Karur, Nilgiri and Ramanathapuram-6 each.

**Saurashtra & Kutch:** Dwarka-11, Jamnagar, Kutch and Sundernagar-6 each.

**East Madhya Pradesh:** Seoni-11.

**Coastal Andhra Pradesh & Yanam:** Vijaywada-7.

**West Rajasthan:** Nagaur-7.

**East Rajasthan:** Sawai Madhopur-7, Tonk-6, Kota-5.

**West Madhya Pradesh:** Betul and Mandsaur-7 each; Hoshangabad and Shivpuri-6 each, Sehore-5.

**Odisha:** Sundernagar-7 and Angul-6.

**Himachal Pradesh:** Kangra-6.