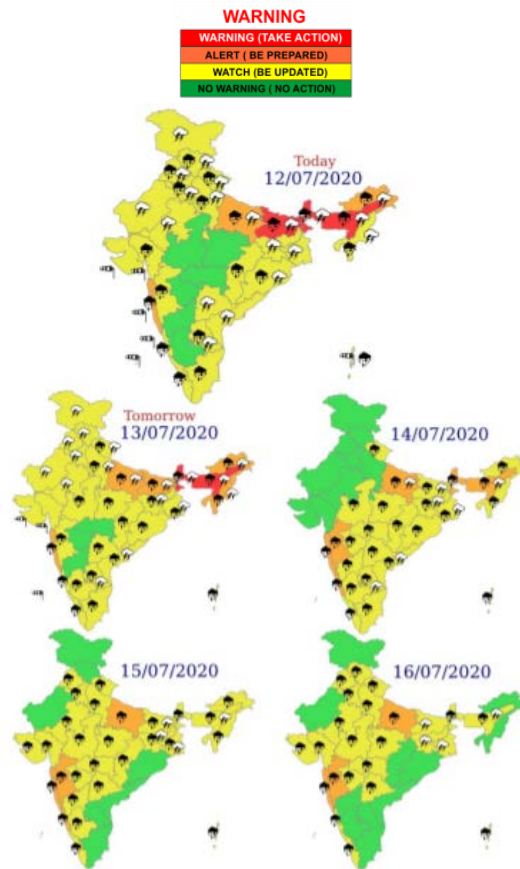


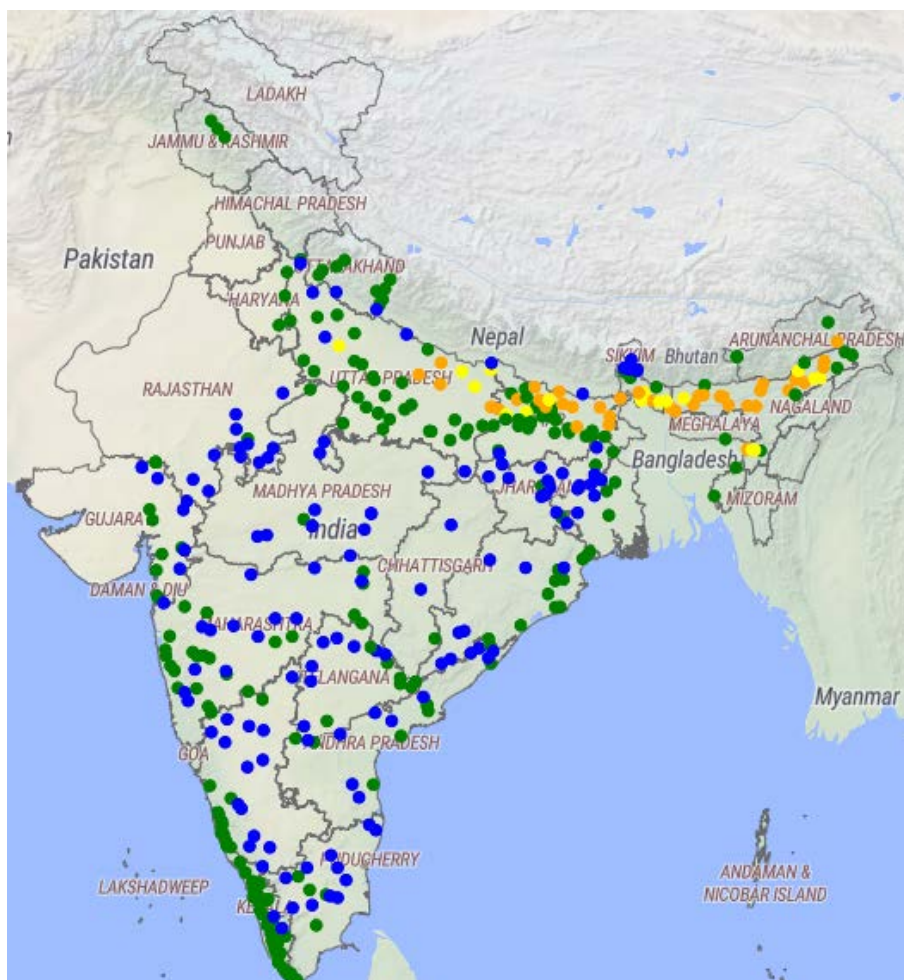


1.2 Rainfall forecast for next 5 days issued on 12<sup>th</sup> July 2020 (Midday) by IMD



2.0 CWC inferences

2.1 Flood Situation on 12<sup>th</sup> July 2020



### 2.1.1 Summary of Flood Situation as per CWC Flood Forecasting Network

On 12<sup>th</sup> July 2020, 37 stations (1 in Arunachal Pradesh, 18 in Assam, 1 in West Bengal, 13 in Bihar and 4 in Uttar Pradesh) are flowing in Severe Flood Situation and 18 stations (6 in Assam, 3 in Bihar, 4 in Uttar Pradesh and 5 in West Bengal) are flowing in Above Normal Flood Situation. Inflow Forecast has been issued for 14 Barrages and Dams (6 in Karnataka, 3 in Jharkhand, 2 in Tamilnadu, 1 in Odisha, 1 in West Bengal and 1 in Uttar Pradesh).

PART - I: LEVEL FORECAST		
S.No.	Flood Situations	Numbers of Forecasting Sites
<b>A</b>	Extreme Flood Situation: (Site (s) where the previous Highest Flood Level (HFL) is exceeded or equalled)	<b>0</b>
<b>B</b>	Severe Flood Situation: (Site (s) where water level is touching or exceeding the Danger Level but below Highest Flood Level (HFL))	<b>37</b>
<b>C</b>	Above Normal Flood Situation: (Site (s) where water level is touching or exceeding the Warning Level but below Danger Level)	<b>18</b>
Total number of sites above Warning Level ( A+B+C)		<b>55</b>
PART - II: INFLOW FORECAST		
Number of sites for which inflow forecasts issued: (Where Inflows are equal or exceed the specified Threshold Limit for a particular reservoir / barrage)		<b>14</b>

Details can be seen in link [http://cwc.gov.in/sites/default/files/dfb202011-07-2020\\_4.pdf](http://cwc.gov.in/sites/default/files/dfb202011-07-2020_4.pdf)

## 2.2 CWC Advisories

- The western end of monsoon trough at mean sea level passes through Ganganagar, Delhi and Bareilly; while eastern end continues to run close to foothills of the Himalayas. A cyclonic circulation lies over East Bihar & neighbourhood at mid & upper tropospheric levels. In addition, the convergence of southwesterly/ southerly winds from Bay of Bengal in the lower tropospheric levels very likely to continue over northeast & adjoining east India during next 2 days.
- As a result, widespread rainfall activity with isolated heavy to very heavy falls most likely to continue over northeast India, West Bengal & Sikkim, Bihar & adjoining East Uttar Pradesh during next 5 days. Isolated extremely heavy falls also very likely over Bihar and Assam & Meghalaya on today, the 12<sup>th</sup> July and over Sub-Himalayan West Bengal & Sikkim on 12<sup>th</sup> & 13<sup>th</sup> July, 2020. Intensity of rainfall over these regions is likely to reduce gradually thereafter.
- Intense thunderstorm & lightning potential zone: Moderate to severe thunderstorm & lightning very likely over Uttar Pradesh and Bihar during next 12 hours.

Based on the above rainfall forecast the following advisories are issued by CWC for various States:

### 2.2.1 North Eastern States, Sub-Himalayan West Bengal & Sikkim

#### Arunachal Pradesh

Rainfall over Arunachal Pradesh has reduced significantly due to which River Siang at Passighat has started falling but is continuing to flow in Severe Flood Situation. It is likely to fall further slowly.

#### Assam

##### Brahmaputra

River Brahmaputra is in spate all along its course from Dibrugarh to Dhubri. Station wise situation based on 0800 hrs level of today is as under:

**Dibrugarh (Dibrugarh District):** River has started falling slowly after attaining its peak today early morning. It is likely to fall further below Danger Level by tomorrow morning.

**Neamatighat (Jorhat District):** River is steady around 0.02 m below the Highest Flood Level (HFL). This may be the peak of the flood wave and then it may start falling slowly.

**Tezpur (Sonitpur District):** River is rising and is flowing 0.96 m above its Danger Level of 65.23 m and is likely to flow around 1.21 m above Danger Level by tomorrow morning 0900 hrs when it will be within 0.15 m of its HFL of 66.59 m. Since Neamatighat is attained its peak further rise is not likely and the river may not touch HFL.

**Guwahati (Kamrup Metropolitan District):** River is rising and is flowing 0.12 m above its Danger Level of 49.68 m. There is likelihood of rise in Water Level for 1 more day. It is likely to rise to about 0.62 m above Danger Level by tomorrow morning and attain its peak by 13<sup>th</sup> July evening.

**Goalpara (Goalpara District):** River is rising and is flowing 0.04 m above its Danger Level of 36.27 m. It is likely to rise till 14<sup>th</sup> July and attain its peak by 14<sup>th</sup> July evening.

**Dhubri (Dhubri District):** River is rising and is flowing in Severe Flood Situation. There is likelihood of rise in Water Level for next 3 days. It is flowing 0.62 m above its Danger Level of 28.62 m. It may attain its peak by 15<sup>th</sup> July morning.

## **Tributaries of Brahmaputra**

Rivers Buridehing in Dibrugarh District, Desang in Sibsagar District, Jia-Bharali in Sonitpur District, Kopili in Nagaon & Morigaon District, Puthimari in Baksa & Kamrup (Rural) Districts, Pagladiya in Baksa & Nalbari Districts, Beki & Manas in Districts of Chirang, Barpeta & Bongaigaon, Gaurang in the District of Kokrajhar and Sankosh in Dhubri District are flowing in Severe Flood Situation with slow falling or steady trend. Since rainfall is likely to reduce significantly all along the basin, there is likelihood of continuous fall in level.

## **West Bengal**

Due to extremely heavy rain in its catchment areas, River Teesta continues to flow in Severe Flood Situation at Domohani Road Bridge in Jalpaiguri District and its tributaries Jaldhaka, Torsa and Raidak are flowing in Above Normal to Severe Flood Situation. Since rainfall is likely to continue on 12<sup>th</sup> and 13<sup>th</sup> July, the rivers may continue to flow in Above Normal to Severe Flood Situation for another 2 days.

### **2.2.2 Uttar Pradesh, Uttarakhand and Bihar**

There is likely Heavy to Very Heavy with isolated extremely heavy rainfall in North Bihar, East & West Uttar Pradesh and Uttarakhand from 11<sup>th</sup> to 12<sup>th</sup> July 2020.

## **Bihar**

Rivers Mahananda, Parman, Bagmati, Kosi, Kamla, Kamlabalan, Ghaghra and Gandak are flowing in Severe Flood Situation in the Districts of Araria, Sitamarhi, Kishanganj, Khagaria, Muzaffarpur, Siwan and Madhubani Districts. Since rainfall has been forecasted to continue on 12<sup>th</sup> July, the rivers are likely to continue in Severe Flood Situation for another 3-4 days.

## **Uttar Pradesh**

Rivers Ghaghra and Rapti in Barabanki, Ayodhya, Ballia and Balrampur Districts are flowing in Severe Flood Situation. Since rainfall has been forecasted to continue on 12<sup>th</sup> July, the rivers are likely to continue in Severe Flood Situation for another 3-4 days.

## **Impact Based Actions**

Strict vigil is to be maintained in all the above Districts for next 3-4 days. Breaches in Embankment if any may aggravate further flood like situation which should be monitored and all efforts to fill any such breaches should be done at the earliest. Maximum vigil has to be maintained along the rail and road tracks and bridges on these rivers and regulate traffic suitably to avoid any incident. All district administrations can take effective measures taking into account the prevailing Covid 19 situation in relief camps being set up in these districts.

### **2.2.3 Karnataka & Maharashtra**

Heavy to very Heavy rainfall is likely to continue in Coastal Districts of Karnataka, Konkan & Goa and in Western Ghats area of Interior Karnataka and Madhya Maharashtra for next 5 days, many of the rivers are likely to rise. Almatti Dam on river Krishna in Vijayapura District is presently getting reduced inflows as the effect of rainfall in Madhya Maharashtra has reduced. However, since intensity of rainfall is likely to rise from 13<sup>th</sup> July onwards, there is likelihood of increase in inflows likely during the next 5 days. Reservoir Operation as per latest rule curves may have to be continued as is being done presently to avoid any downstream flooding and upstream submergence. As on date Almatti Dam is having a storage of 72% and Narayanpur Dam is having a storage of 84%. The excess inflows likely to be received due to forecasted rainfall should accordingly be regulated and released as per rule curves of both the dams.

Maximum Vigil is to be maintained along these river banks. Concerned Authorities in these States have to maintain strict vigil along railway track and Highways and regulate traffic along bridges to avoid any incidents due to submergence or washing out of bridges.

## **3. Flood Affected Districts**

<b>Arunachal Pradesh:</b>	East Siang, East & West Kameng, Changlang, Lohit, Inner Dibang
<b>Assam:</b>	Barpeta, Bongaigaon, Dhubri, Dibrugarh, Sonitpur, Sibsagar, Jorhat, Baksa, Chirang, Kamrup, Nagaon
<b>Bihar:</b>	Gopalganj, Khagaria, Madhubani, Sitamarhi, Kishanganj, Muzaffarpur, Siwan
<b>Uttar Pradesh:</b>	Barabanki, Ballia, Balrampur, Ballia

## **4. Flood Alerted Districts**

<b>Assam:</b>	Districts along the Brahmaputra and its Tributaries
<b>West Bengal:</b>	Coochbehar, Alipurduar, Jalpaiguri
<b>Sikkim:</b>	Districts along Teesta
<b>Bihar:</b>	Districts along North Bank Tributaries of Ganga
<b>Uttar Pradesh:</b>	Districts along Ghaghra and Rapti & their tributaries
<b>Maharashtra:</b>	Districts along river reaches of West Flowing Rivers and Krishna and its tributaries
<b>Karnataka:</b>	Districts along West Flowing Rivers and along Krishna upto Almatti Dam.