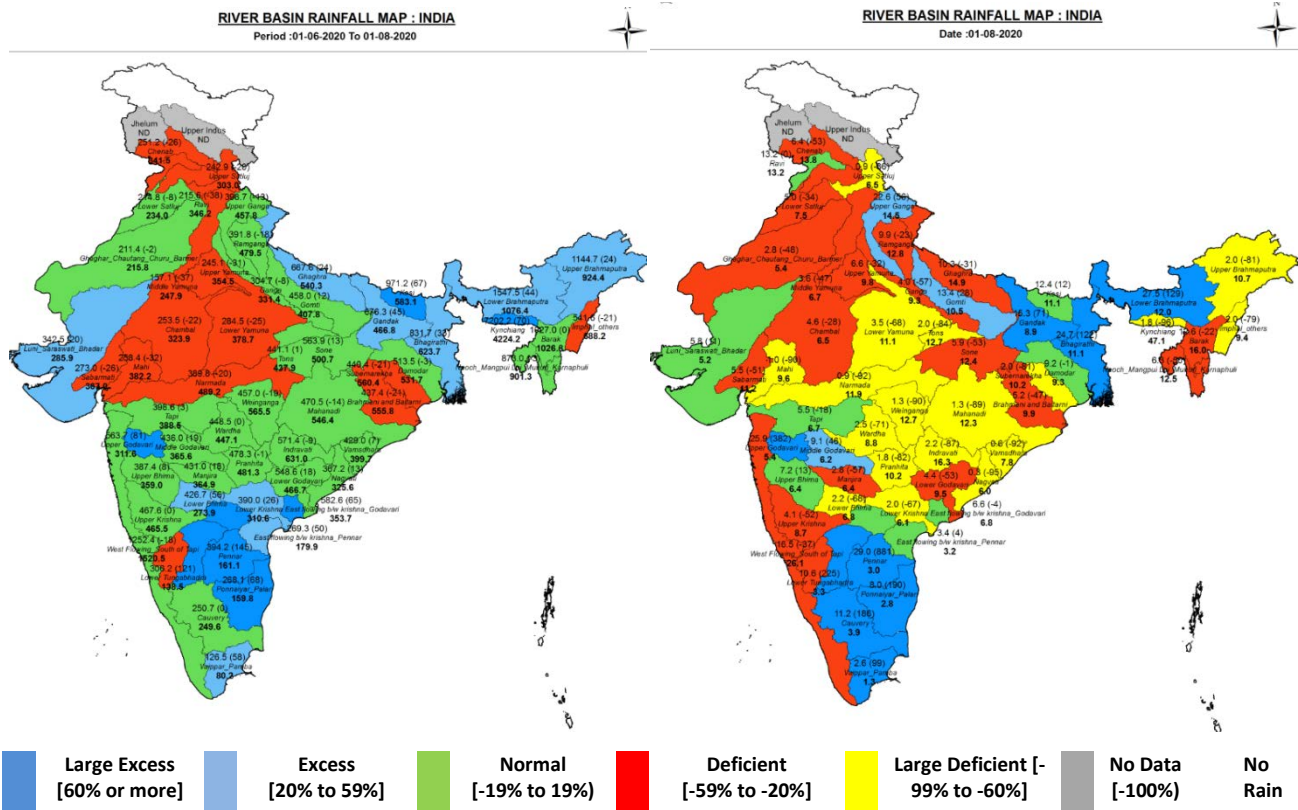




Central Water Commission  
Daily Flood Situation Report cum Advisories  
01-08-2020

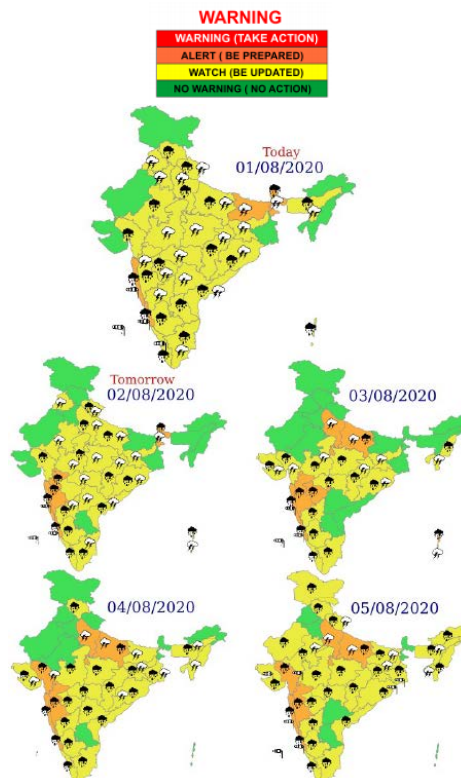
1.0 IMD information

1.1 Basin wise departure from normal of cumulative and daily rainfall



Notes: a) Small figures indicate actual rainfall (mm), while bold figures indicate Normal rainfall (mm)  
b) Percentage departures of rainfall are shown in brackets.

1.2 Rainfall forecast for next 5 days issued on 1<sup>st</sup> August 2020 (Midday) by IMD



## 2.0 CWC inferences

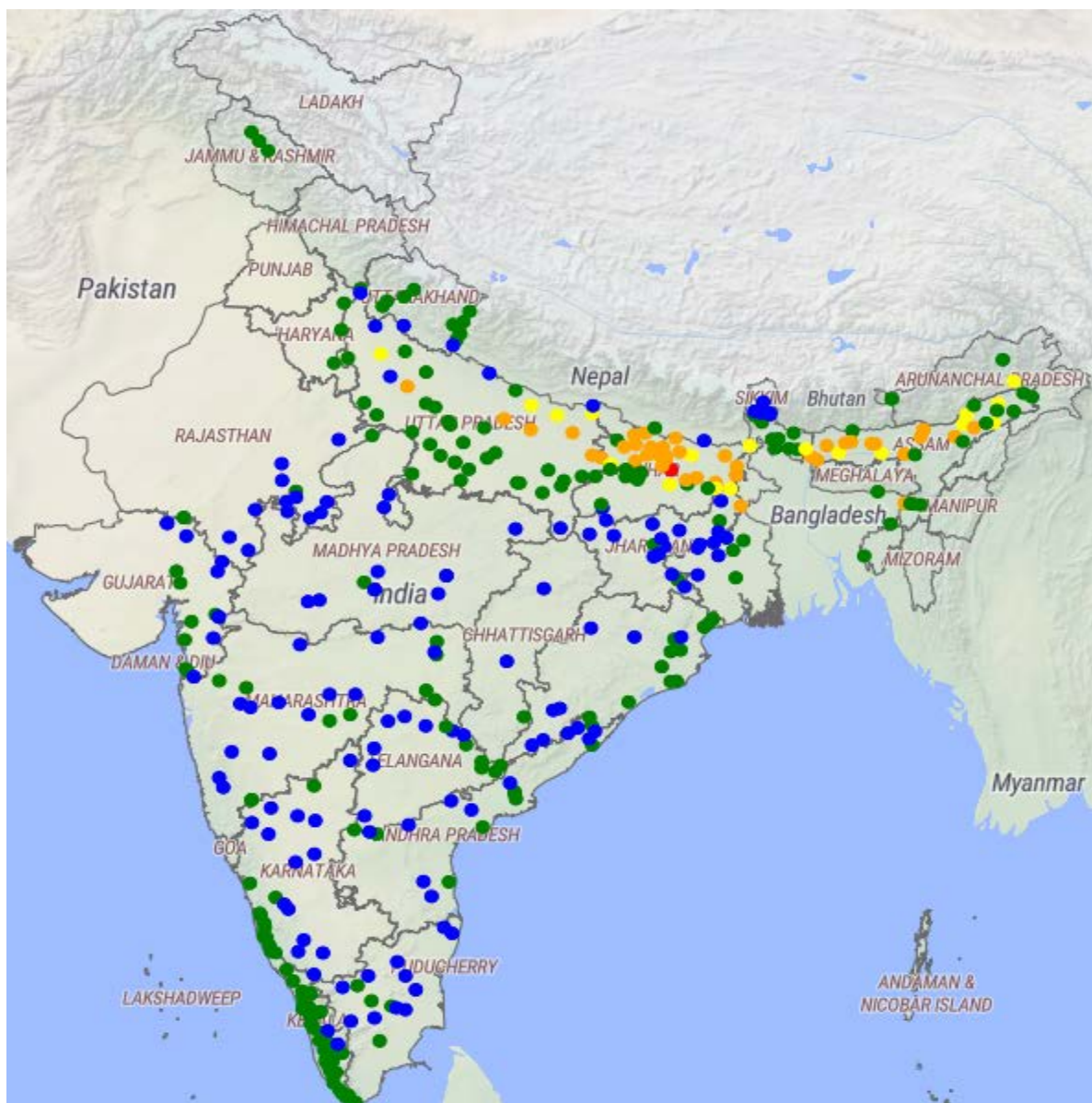
### 2.1 Flood Situation on 1<sup>st</sup> August 2020

On 1<sup>st</sup> August 2020, 1 Station in Bihar is flowing in Extreme Flood Situation, 37 Stations (9 in Assam, 22 in Bihar, 5 in Uttar Pradesh and 1 in West Bengal) are flowing in Severe Flood Situation and 23 stations (9 in Assam, 5 in Bihar, 4 in Uttar Pradesh, 3 in West Bengal and 1 each in Arunachal Pradesh and Jharkhand) are flowing in Above Normal Flood Situation. Inflow Forecast has been issued for 8 Barrages and Dams (2 in Tamil Nadu, 2 in Jharkhand, 2 in UP and 1 each in West Bengal and Karnataka).

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>1</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>23</b>
Total number of sites above Warning Level ( A+B+C)		<b>61</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>8</b>

Details can be seen in link : <http://cwc.gov.in/sites/default/files/cfrcwcdfb01082020.pdf>

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



## 2.2 CWC Advisories

- The western part of the monsoon trough is in its near normal position. However, eastern part continues to be situated to the north of normal position. The east-west shear zone in the mid-levels has shifted slightly northwards since yesterday. Lower level westerlies along the west coast has further strengthened.
- Remnant of a low-pressure system from the east is likely to emerge into north Bay of Bengal and under its influence, a Low-Pressure Area is likely to form over north Bay of Bengal around 04<sup>th</sup> August. As a consequence of enhanced north-south pressure gradient, the monsoon flow is likely to strengthen further from 03<sup>rd</sup> August.

Under the above scenario, the following significant weather is very likely:

- Widespread rainfall with isolated heavy to very heavy falls over Konkan & Goa, Coastal Karnataka & adjoining ghat districts of South Interior Karnataka and isolated heavy falls over Kerala on 01<sup>st</sup> & 02<sup>nd</sup> August. The Intensity would further increase from 03<sup>rd</sup> August when Konkan & Goa is likely to experience heavy to very heavy falls at a few places with extremely heavy falls at isolated places during 03<sup>rd</sup> - 05<sup>th</sup> August. Similar increase is likely over parts of Madhya Maharashtra including the ghat areas during 04<sup>th</sup> - 05<sup>th</sup> August. Heavy to very heavy falls at a few places likely over Coastal Karnataka and at isolated places over Kerala during 03<sup>rd</sup> - 05<sup>th</sup> August.
- Widespread rainfall with isolated heavy to very heavy falls is likely over Odisha and Chhattisgarh and heavy falls over Jharkhand and Gangetic West Bengal mainly during 04<sup>th</sup> & 05<sup>th</sup> August.
- Madhya Pradesh and Gujarat are also likely to experience gradual increase in intensity & spatial distribution of rainfall during 03<sup>rd</sup> - 05<sup>th</sup> August.
- Andaman Islands are likely to experience thunder squalls accompanied with heavy to very heavy falls during 01<sup>st</sup> - 03<sup>rd</sup> August.

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

### 2.2.1 Ghat Areas along West Coast

#### **Maharashtra, Goa & South Gujarat including Daman and Dardra Nagar Haveli**

Widespread rainfall with isolated extremely heavy rain and heavy to very heavy fall at few places are likely over Konkan & Goa and Ghat areas of Madhya Maharashtra and South Gujarat regions during 01<sup>st</sup> – 05<sup>th</sup> August, 2020.

Due to forecasted heavy to very heavy rain in Coastal Districts and in Western Ghat areas of Maharashtra, there is likelihood of rapid rise in water levels in many of the West Flowing Rivers between Tapi and Tadri including Damanganga during the next 3-4 days. Rivers Godavari, Krishna and their tributaries near their source regions are also likely to rise rapidly in association with the forecasted rainfall. Most of the reservoirs in these basins are having storage between 10 to 50% with some of the small dams having around 70% storage. Due to forecasted rainfall for next 4-5 days, there is chance of rise in inflows into most of these dams. Watch is to be maintained in some of the small dams which are already filled upto more than 70% of its capacity. **Major Dams such as Koyna (46%), Warna (58%), Doodhganga (65%) shall monitor the intensity of rainfall and inflows using the short-range inflow forecasts provided by CWC and decide on release as per Standard Operating Procedure and Rule Curves.**

Due to sudden increase in water levels in association with predicted rainfall there may be chances of spillage from small dams along west coast on West Flowing Rivers. Further the increased level may also submerge some of the low level bridges and railway tracks along the rivers. Close Watch has to be maintained along these bridges along National Highways and Railway Bridges to avoid any incidents.

There is likelihood of Urban Flooding like situation in Mumbai and its suburban areas due to forecasted rainfall for the next 3 - 4 days with increasing intensity from 3<sup>rd</sup> to 5<sup>th</sup> August.

#### **Karnataka & Kerala**

There is likely rise in levels of West Flowing Rivers in Uttara Kannada, Udupi and Dakshina Kannada Districts. Rivers in Shivamogga, Chikmagalur, Hassan & Kodagu Districts are also likely to rise and close watch is to be maintained.

**Harangi Dam in Cauvery Basin of Kodagu District is filled upto 93% of its full capacity. Similarly, Upper Tunga Project (Gajanur Dam) is at 100% of its capacity and Kabini Dam is filled upto 80% of its full capacity.**

**It is advised that close watch has to be maintained for increased inflows likely during the next 3 - 4 days in view of the heavy rainfall warning. Releases from any of these reservoirs may be done as per rule curve and standard operating procedure.**

Heavy rainfall has been forecasted in all Districts of Kerala during the next 4 - 5 days. Due to forecasted rainfall, river levels are likely to rise again depending on the intensity of rainfall. There may be some increase in inflows in some of the reservoirs. However, most of the reservoirs in Kerala are having storage around 30 to 60% of their full capacity, the present spell of rainfall will aid in increasing the storage of various dams and no spillage is expected.

### 2.2.2 Bihar, Jharkhand and Gangetic West Bengal

**Flood Forecasting Station on River Burhi Gandak at Rosera in Samastipur District of Bihar is flowing in Extreme**

**Flood Situation and has stabilised at 46.5 m for the past 6 hours, it is expected to fall to 46.37 by 1000 hrs on 2<sup>nd</sup> August 2020.** Besides this two other Flood Monitoring Stations one each on River Burhi Gandak at Sakra in Muzaffarpur District and on River Adhwara Group at Bishunpur in Darbhanga District continues to flow in Extreme Flood Situation with almost steady trend. This is also likely to remain steady for the next 2 - 3 days before falling very slowly.

Heavy rainfall is likely to occur over Bihar at isolated places in the all the Northern Districts of Bihar and over Sub-Himalayan West Bengal & Sikkim during next 24 hours and then reduce significantly. River levels in most of the north bank tributaries of Ganga are likely to continue in Severe to Extreme Flood Situation with slow falling trend for next 3 - 4 days.

River Parman in Araria District, Mahananda in Katihar & Purnia Districts, River Kosi in Khagaria & Katihar Districts, River Adhwara in Darbhanga District, River Bagmati in Darbhanga, Sitamarhi and Muzaffarpur Districts, Rivers Kamla & Kamlabalan in Madhubani District, River Burhi Gandak in Purbi Champaran, Muzaffarpur, Samastipur & Khagaria Districts, and River Gandak in Gopalganj & Muzaffarpur Districts, River Ghaghra at Siwan District are flowing in Severe Flood Situation. Above rivers are flowing in Above Normal flood situation in many of the downstream location.

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

There has been a significant reduction in rainfall in the last 24 hours. River Brahmaputra is flowing in Above Normal to Severe Flood Situation with steady/falling trend all along the course from Dibrugarh to Dhubri and the levels are expected to fall slowly.

Rivers Jia-Bharali in Sonitpur District, Dhansiri (South) in Golaghat District Kopili in Morigaon District, Beki & Manas in Barpeta District in Brahmaputra Basin are flowing in Severe Flood Situation. As there is likelihood of further reduction in rainfall due to shift of the monsoon trough to its normal position, the river levels are expected to fall during the next 2 - 3 days.

### **2.2.4 Uttarakhand & Uttar Pradesh**

Due to ongoing heavy to very heavy rain in parts of Uttarakhand and Uttar Pradesh and the forecasted rainfall in the next 2 - 3 days, there is chance of rise in water levels in Alaknanda, Mandakini, Bhagirathi, Ramganga, Ganga, Sharda, Sarju, Ghaghra, Rapti rivers. Due to ongoing rainfall along the foot hills of Himalayas, River Ghaghra in Barabanki, Ayodhya & Ballia Districts and River Rapti in Gorakhpur District are flowing in Severe Flood Situation with rising/steady trend. Since rainfall is likely to continue, the rivers are likely to continue flowing in Above Normal to Severe Flood Situation. River Ganga is flowing in Severe Flood Situation in Badaun District and in Above Normal Flood Situation in Ghaziabad District.

### **Impact Based Actions**

Strict vigil is to be maintained in all the above States & Districts for next 4-5 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. Submergence of low-level cause ways along rivers and railway tracks along flashy rivers is to be monitored closely especially along western ghat areas. All district administrations can take effective measures taking into account the prevailing Covid19 situation in relief camps being set up in these districts.

## **3. Flood Affected Districts**

**Assam:** Jorhat, Golaghat, Sonitpur, Morigaon, Barpeta, Kokrajhar, Baksa, Dhubri  
**Bihar:** Araria, Purnia, Katihar, Madhubani, Darbhanga, Muzaffarpur, Purba Champaran, Khagaria, Sitamarhi, Gopalganj, Samastipur, Bhagalpur.  
**Uttar Pradesh:** Barabanki, Ayodhya, Gorakhpur, Ballia, Badaun

## **4. Flood Alerted Districts**

**Uttarakhand:** Districts along rivers Alaknanda, Bhagirathi, Ramganga, Sharda, Sarju.  
**Maharashtra:** Districts of Palghar, Thane, Raigad, Ratnagiri, Sindhudurg, Nasik, Pune, Satara, Kolhapur  
**Karnataka:** Districts along West Flowing Rivers in Uttara Kannada, Dakshina Kannada, Udupi and Shivamogga.  
**Kerala:** Districts along river Periyar, Bharathapuzha, Pamba, Kabini, Valapatnam.