

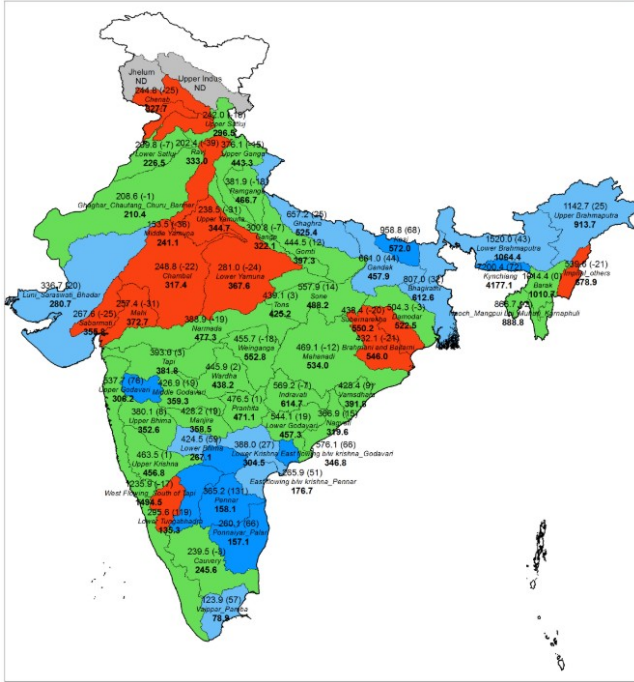


**Central Water Commission**  
**Daily Flood Situation Report cum Advisories**  
**31-07-2020**

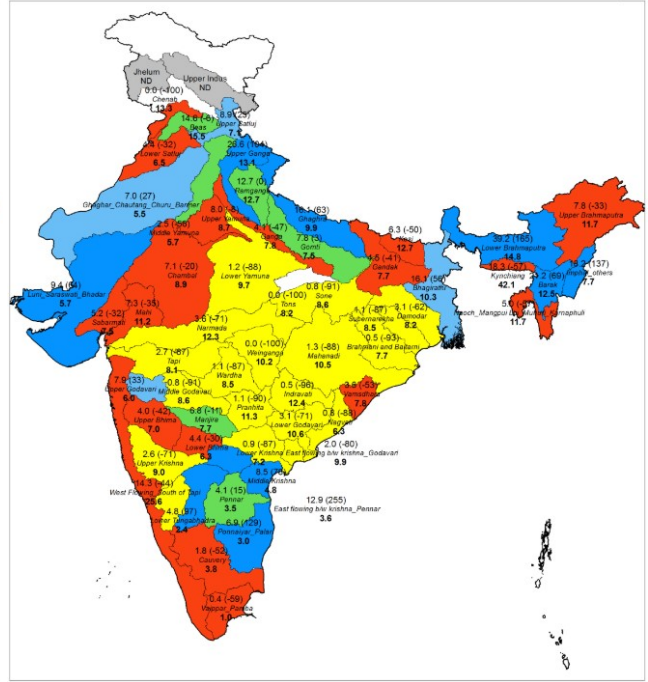
**1.0 IMD information**

**1.1 Basin wise departure from normal of cumulative and daily rainfall**

**RIVER BASIN RAINFALL MAP : INDIA**  
 Period :01-06-2020 To 31-07-2020



**RIVER BASIN RAINFALL MAP : INDIA**  
 Date :31-07-2020



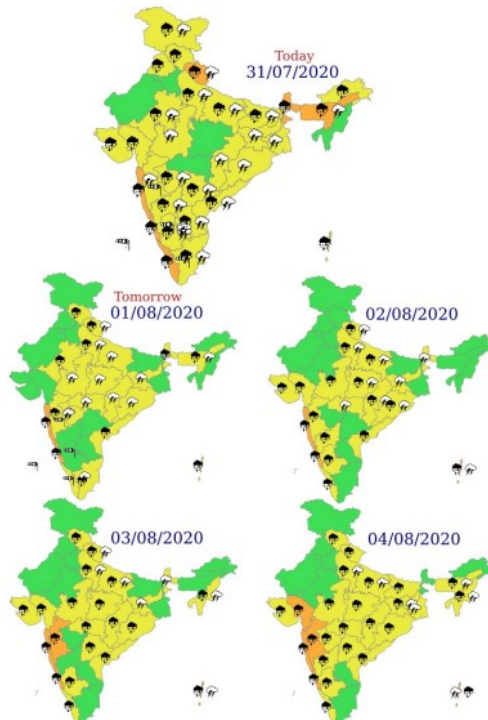
	<b>Large Excess</b> [60% or more]		<b>Excess</b> [20% to 59%]		<b>Normal</b> [-19% to 19%]		<b>Deficient</b> [-59% to -20%]		<b>Large Deficient [-</b> 99% to -60%]		<b>No Data</b> [-100%]		<b>No Rain</b>
--	--------------------------------------	--	-------------------------------	--	--------------------------------	--	------------------------------------	--	---	--	---------------------------	--	----------------

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 31<sup>st</sup> July 2020 (Midday) by IMD**

**WARNING**

	<b>WARNING (TAKE ACTION)</b>
	<b>ALERT (BE PREPARED)</b>
	<b>WATCH (BE UPDATED)</b>
	<b>NO WARNING (NO ACTION)</b>



## 2.0 CWC inferences

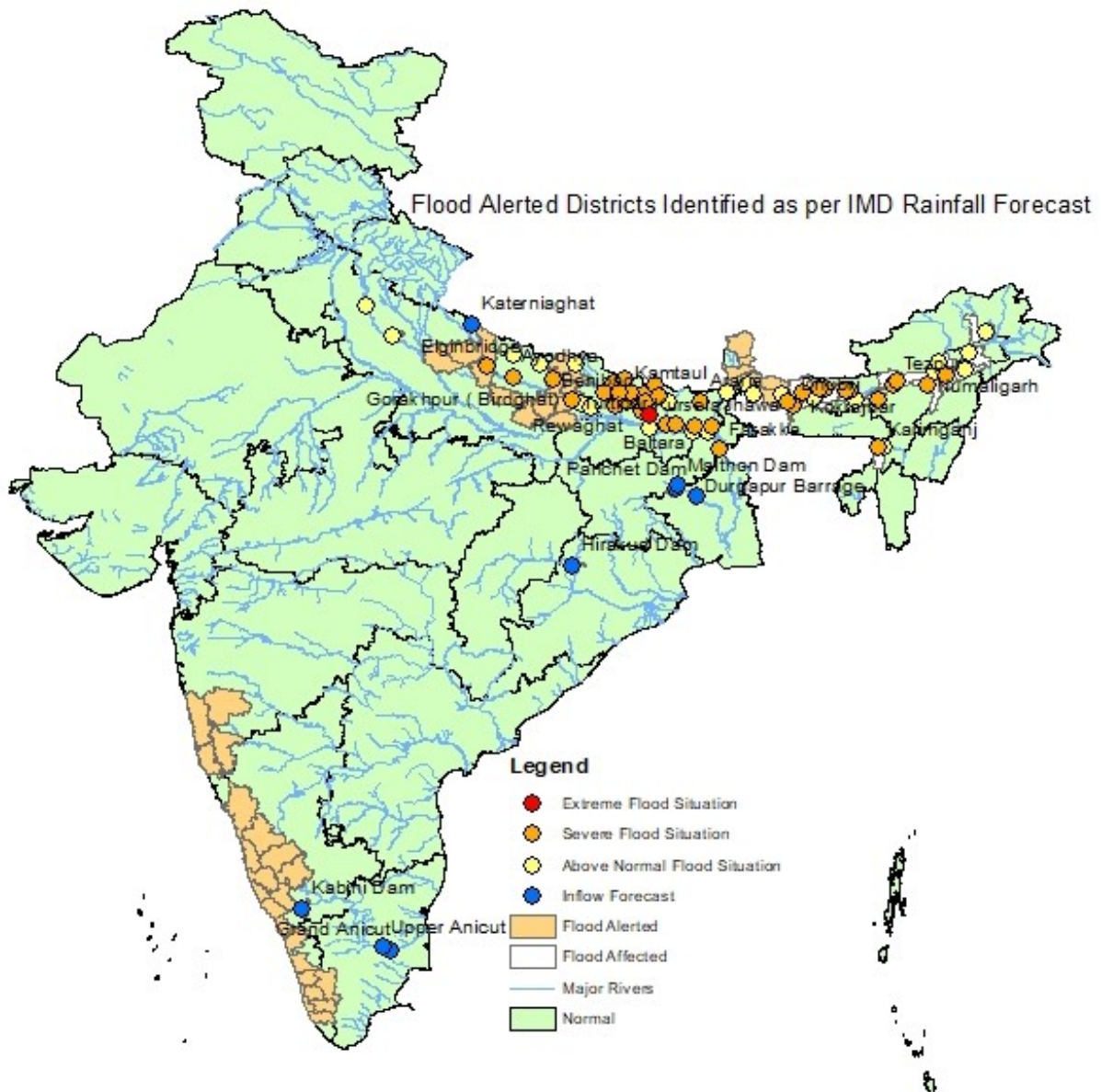
### 2.1 Flood Situation on 31<sup>st</sup> July 2020

On 31<sup>st</sup> July 2020, 1 Station in Bihar is flowing in Extreme Flood Situation. 38 Stations (20 in Bihar, 13 in Assam, 4 in Uttar Pradesh and 1 in West Bengal) are flowing in Severe Flood Situation and 23 stations (7 in Assam, 6 in Bihar, 5 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 and 1 each in Uttar Pradesh, West Bengal, Odisha 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>38</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>62</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/dfb202031-07-2020\\_5.pdf](http://cwc.gov.in/sites/default/files/dfb202031-07-2020_5.pdf)

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



## 2.2 CWC Advisories

- The western end of the monsoon trough lies south of its normal position, however its eastern end is still to the north of its normal position. Convergence of lower level winds from Arabian Sea over Western Himalayan Region is very likely to continue during next 2 days. A cyclonic circulation lies over Punjab & neighbourhood at lower tropospheric levels. Under the influence of these meteorological conditions, widespread rainfall with isolated heavy falls very likely over Jammu Division, Himachal Pradesh, Uttarakhand and Punjab, Bihar, Sub-Himalayan West Bengal & Sikkim, Andaman & Nicobar Islands and Gujarat State during next 2 days.
- Due to convergence of strong lower level winds over the west coast, widespread rainfall with isolated heavy to very heavy falls are most likely along the west coast during next 5 days. Extremely heavy rainfall also likely over Konkan & Goa on 4th August, 2020.
- Under the likely formation of Low pressure area over North Bay of Bengal on 4<sup>th</sup> August, 2020, rainfall intensity & distribution is likely to increase over east India with isolated heavy to very heavy falls from 4<sup>th</sup> August onwards.

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

### 2.2.1 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 with slow rising trend, it is expected to rise for another 12 hours and then slowly stabilize.** 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 2 days. 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, River Ganga in Bhagalpur District and River Gandak in Gopalganj District are flowing in Severe Flood Situation. Above rivers are flowing in Above Normal flood situation in many of the downstream location.

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

Widespread rainfall with isolated heavy to very heavy rainfall is likely to occur over Sub-Himalayan West Bengal & Sikkim during next 24 hours and reduce thereafter. Due to this, the river levels are likely to continue in Above Normal to Severe Flood Situation for another 1-2 days.

River Brahmaputra is flowing in Above Normal to Severe Flood Situation with steady/falling trend all along the course from Dibrugarh to Dhubri the levels are expected to fall slowly.

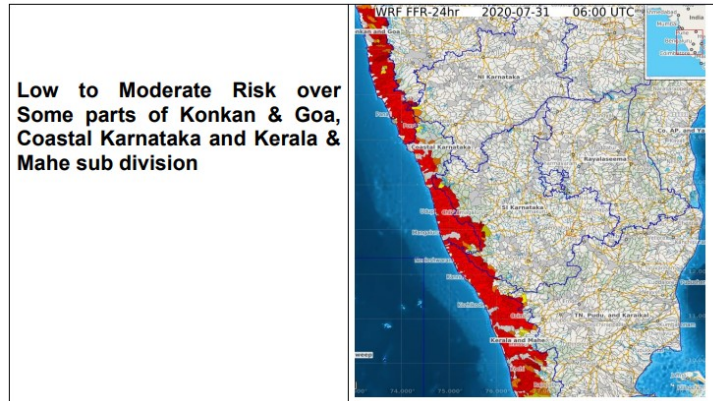
Rivers Jia-Bharali in Sonitpur District, Dhansiri (South) in Golaghat District, Kopili in Morigaon District, Puthimari in Baksa District, Beki in Barpeta District and Gaurang in Kokrajhar District, in Brahmaputra Basin are flowing in Severe Flood Situation. River Kushiyara in Karimganj District in Barak Basin is also flowing in Severe Flood Situation with falling trend. As there is likelihood of significant reduction in rainfall due to shift of the monsoon trough to its normal position, the river levels are expected to fall during the next 3-4 days.

### 2.2.3 Himachal Pradesh, 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 trend.

### 2.2.4 Kerala

Heavy to very heavy rainfall has been forecasted in the Districts of Kollam, Alappuzha, Kottayam, Ernakulam, Idukki, Malappuram, Kozhikode and Wynad in Kerala during the next 24 hours and heavy rainfall in all Districts of Kerala during the next 4 days. River Manimala at Kalloopara in Pathanamthitta District of Kerala and River Achankovil at Thumpamon in Pathanamthitta district have fallen to Normal. However, 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. Further the Flash Flood Guidance issued by IMD indicates that Low to Moderate Risk over some parts of Kerala & Mahe during the next 24 hours. The area of concern is given in the map below for all the three regions where flash flood guidance has been issued.



### 2.2.5 Maharashtra, Goa & Karnataka

Widespread rainfall with isolated heavy to very heavy falls are likely over Konkan & Goa and Ghat areas of Madhya Maharashtra during 01<sup>st</sup> - 03<sup>rd</sup> August, 2020.

Due to forecasted heavy to very heavy rain in Coastal Districts and in Western Ghat areas of Karnataka for next 3-4 days, there is likely rise in levels of Rivers in Shivamogga, Chikmagalur, Hassan & Kodagu Districts 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.**

**Present level at Harangi Dam is at 870.87 m today compared to its FRL of 871.42 m. Dam authority is releasing on an average 1575 cusecs as on today morning. 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.**

**Presently, the reservoir level at Upper Tunga Project (Gajanur Dam) in Shivamogga District of Karnataka is at 588.24 m which is its FRL. Due to rainfall forecast in its upper catchment for next 3-4 days, releases should be accordingly increased.**

Presently, the river level at Kabini Dam in Mysuru District of Karnataka is 694.13 m compared to its FRL of 696.16 m. Since there is forecast of heavy to very heavy rain in Wynad District of Kerala, the inflows into Kabini Dam are likely to rise. Necessary precautions may be taken for releases from dam after informing all downstream areas in Karnataka and lower riparian States.

#### Impact Based Actions

Strict vigil is to be maintained in all the above States & Districts for next 2-3 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 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,

### 4. Flood Alerted Districts

- Uttarakhand:** Districts along rivers Alaknanda, Bhagirathi, Ramganga, Sharda, Sarju.  
**Karnataka:** Districts along West Flowing Rivers in Uttara Kannada, Dakshina Kannada, Udupi and Shivamogga.  
**Kerala:** Districts of Pathanamthitta, Idukki, Kottayam and Ernakulam Districts.  
**Maharashtra:** Districts of Ratnagiri and Sindhudurg.