



Central Water Commission
Daily Flood Situation Report cum Advisories
10-07-2019

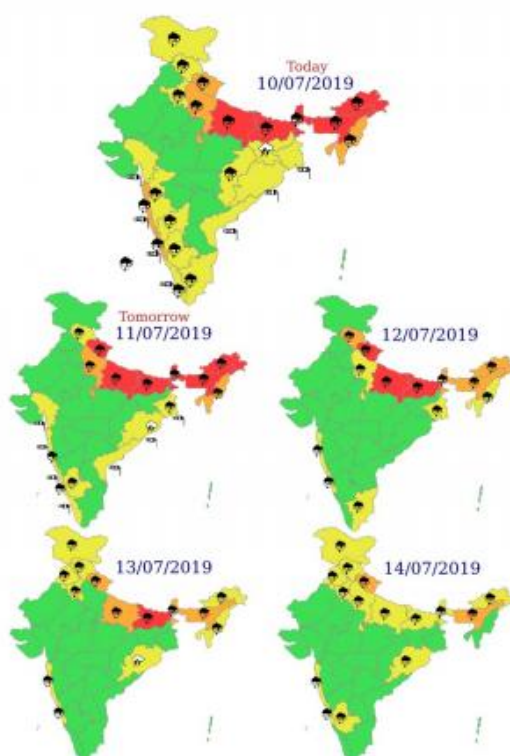
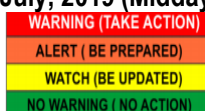
1.0 IMD information

1.1 Rainfall Situation

1.1.1 Amount of rainfall recorded at 0830 hours IST of today (10 cm or more) as per IMD

Name of Place (State)	Rainfall (in cm)
Sohra (Meghalaya)	39
Cherrapunji (Meghalaya)	26
Basti (UP)	24
Maudaha & Ayodhya (UP)	22 each
Bahraich & Trimohinighat (UP)	20 each
Shillong (Meghalaya), Sabroom (Tripura), Gharighat (UP)	19 each
Williamnagar (Meghalaya), Bansi (UP),	18 each
Kakrahi , Haraiya, Uska Bazaar & Birdghat (UP), Castle Rock (Karnataka)	17 each
Banda(UP)	16
Tamini (Maharashtra), Karkala (Karnataka), Chatia & Sikti (Bihar)	15 each
Barapani (Meghalaya), Fatehpur, Ramnagar (UP), Gersoppa (Karnataka)	14 each
Khliehriat (Meghalaya), Kottigehara, Kota & Shirali (Karnataka), Regoli & Hata (UP)	13 each
Chouldhowaghat & Baghmara (Assam), Faizabad, Khalilabad & Kakerdharighat (UP), Kumta (Karnataka), Gaganbawda, Dawdi & Ambone (Maharashtra), Darauli (Bihar)	12 each
Gorakhpur & Domeriaganj (UP), Mani, Londa, Manki & Linganamakki (Karnataka), Dungerwadi & Shirgaon (Maharashtra), North Lakhimpur, Beki- Mathanguri, Bongaigaon, Guwahati & Gossaigaon (Assam), Passighat (Arunachal Pradesh)	11 each
Mahabaleshwar (Maharashtra), Bhagalpur & Taibpur (Bihar), Patiala (Punjab), Barpeta & Dhemaji (Assam), Nongstoin (Meghalaya), Kollur, Gokarna & Kalasa (Karnataka)	10 each

1.1.2 Rainfall forecast for next 5 days issued on 10th July, 2019 (Midday) by IMD



2.0 CWC inferences
 2.1 Flood Situation
 2.1.1 Summary of Flood Situation as per CWC Flood Forecasting network

PART - I: LEVEL FORECAST		
S.No.	Flood Situations	Numbers of Forecasting Sites
A	Extreme Flood Situation: (Site (s) where the previous Highest Flood Level (HFL) is exceeded or equalled)	0
B	Severe Flood Situation: (Site (s) where water level is touching or exceeding the Danger Level but below Highest Flood Level (HFL))	8
C	Above Normal Flood Situation: (Site (s) where water level is touching or exceeding the Warning Level but below Danger Level)	16
Total number of sites above Warning Level (A+B+C)		24
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)		10

2.1.2 Severe Flood Situation

River Station	District State	Warning Level (m)	Danger Level (m)	Highest flood Level (m) Date	Actual level	Forecasted Level
					Trend Time	Trend Date
Beki	Barpeta	44.1	45.1	46.2 2000-08-04	45.5	45.4 Rising
Beki Road bridge	Assam				Rising 14:00	10/7/2019 18:00:00
Jlabharali	Sonitpur	76.0	77.0	78.5 2007-07-26	77.96	77.9 Steady
NT Road Crossing Jla-Bharali	Assam				Falling 14:00	10/7/2019 15:00:00
Brahmaputra	Jorhat	84.04	85.04	87.37 1991-07-11	86.21	86.14 Steady
Neamatighat	Assam				Steady 14:00	11/7/2019 09:00:00
Dhansiri (South)	Golaghat	76.42	77.42	80.16 2018-08-03	78.4	78.41 Steady
Numaligarh	Assam				Steady 14:00	10/7/2019 16:00:00
Puthimari	Kamrup	50.81	51.81	55.08 2008-08-31	52.22	52.05 Rising
Puthimari NH Rd Xing	Assam				Steady 14:00	10/7/2019 19:00:00
Dikhow	Sibsagar	91.4	92.4	94.23 2018-08-01	92.93	92.9 Steady
Sivasagar	Assam				Steady 14:00	10/7/2019 15:00:00
Brahmaputra	Sonitpur	64.23	65.23	66.59 1988-08-27	65.54	65.72 Steady
Tezpur	Assam				Rising 14:00	11/7/2019 09:00:00
Bagmati	Sitamarhi	52.73	53.73	58.15 2017-08-14	53.73	53.75 Falling
Runisaidpur	Bihar				Steady 13:00	11/7/2019 06:00:00

2.1.3

Above Normal

Site (s) where water level is equalled or exceeded Warning Level but Less than Danger Level						
River	District	Warning Level (m)	Danger Level (m)	Highest flood Level (m)	Actual level	Forecasted Level
					Trend	Trend
Station	State			Date	Time	Date
Bagmati	Sitamarhi	69.1	70.1	73.0	69.76	69.75
Dheng Bridge	Bihar				Falling	11/7/2019
				2017-08-13	13:00	06:00:00
Gandak	Gopalganj	61.22	62.22	64.1	62.2	62.2
Dumariaghat	Bihar				Steady	11/7/2019
				2017-08-17	13:00	06:00:00
Gaurang	Kokrajhar	41.85	42.85	43.6	42.59	42.35
Kokrajhar	Assam				Rising	10/7/2019
				2015-08-20	14:00	18:00:00
Mahananda	Kishangani	65.0	66.0	67.22	65.7	
Talbpur	Bihar				Rising	
					12:00	
Subansiri	Lakhimpur	81.53	82.53	86.21	82.21	82.06
Badatighat	Assam				Rising	11/7/2019
				1972-07-28	13:00	00:00:00
Brahmaputra	Dhubri	27.62	28.62	30.36	28.17	28.24
Dhubri	Assam				Rising	10/7/2019
				1988-08-28	14:00	21:00:00
Brahmaputra	Dibrugarh	104.7	105.7	106.48	104.96	104.9
Dibrugarh	Assam				Falling	10/7/2019
				1998-09-03	14:00	18:00:00
Brahmaputra	Goalpara	35.27	36.27	37.43	35.47	35.5
Goalpara	Assam				Rising	10/7/2019
				1954-07-31	14:00	18:00:00
Brahmaputra	Kamrup	48.68	49.68	51.46	48.93	49.2
Guwahati(D.C.Court)	Assam				Rising	11/7/2019
				2004-07-21	14:00	06:00:00
Pagladiya	Nalbari	51.75	52.75	55.45	52.12	52.07
Pagladiya N T Road Crossing	Assam				Falling	10/7/2019
				2004-07-08	14:00	18:00:00
Ranganadi	Lakhimpur	93.81	94.81	95.92	94.5	94.52
Ranganadi NT Road crossing	Assam				Falling	10/7/2019
				1979-07-02	14:00	15:00:00
Kosi	Khangaria	32.85	33.85	36.4	33.24	33.39
Baltara	Bihar				Steady	11/7/2019
				1987-08-15	12:00	06:00:00
Kamla	Madhubani	66.75	67.75	71.35	66.8	67.25
Jainagar	Bihar				Rising	10/7/2019
					13:00	16:00:00
Rapti	Balrampur *	103.62	104.62	105.54	103.77	104.45
Balrampur	Uttar Pradesh				Rising	11/7/2019
				2017-08-15	14:00	08:00:00
Gandak	Kushinagar *	95.0	96.0	97.5	95.03	95.06
Khadda	Uttar Pradesh				Rising	10/7/2019
				2002-07-23	13:00	15:00:00
Teesta	Jalpaiguri	85.65	85.95	89.3	85.73	85.8
DOMOHANI	West Bengal				Falling	10/7/2019
				1968-10-04	13:00	15:00:00

2.1.4 Reservoir

Name of River	Flood Forecasting Site	District	State	FRL (m)	MWL (m)	Actual Level			Forecast			
						Level (m)	Time	Trend	Average Inflow (Cumec)	Trend	Date	Time
Krishna	Hipparagi Barrage	Bijapur	Karnataka	531.4	531.4	521.2507	08:00	Rising	2300.0	Steady	11/7/2019	08:00:00
Koyna	Koyna Dam	Satara	Maharashtra	650.85		635.13007	08:00	Rising	1000.0	Steady	11/7/2019	08:00:00
Tungabhadra	Singatalur Barrage	Gadag	Karnataka	507.0		506.8	08:00	Steady	425.0	Falling	10/7/2019	20:00:00
Bhadra	Bhadra Dam	Chikmagalur	Karnataka	657.75	657.75	640.89075	08:00	Rising	350.0	Rising	11/7/2019	08:00:00
Krishna	Almati Dam	Bijapur	Karnataka	519.6	519.6	513.96	12:00	Rising	3000.0	Steady	11/7/2019	08:00:00
Hemavathi	Hemavathi Dam	Hassan	Karnataka	890.63		878.09827	08:00	Rising	370.0	Rising	11/7/2019	08:00:00
Kabini	Kabini Dam	Mysore	Karnataka	696.16		690.60974	08:00	Rising	210.0	Steady	11/7/2019	08:00:00
Cauvery	Krishna Raja Sagar	Mandya	Karnataka	752.49		740.6943	08:00	Rising	205.0	Steady	11/7/2019	08:00:00
Tungabhadra	Tungabhadra Dam	Bellary	Karnataka	497.74	497.74	481.70288	12:00	Rising	425.0	Falling	10/7/2019	20:00:00
Tunga	Upper Tunga Project	Shimoga	Karnataka	588.24	588.24	588.2396	08:00	Steady	650.0	Rising	11/7/2019	08:00:00

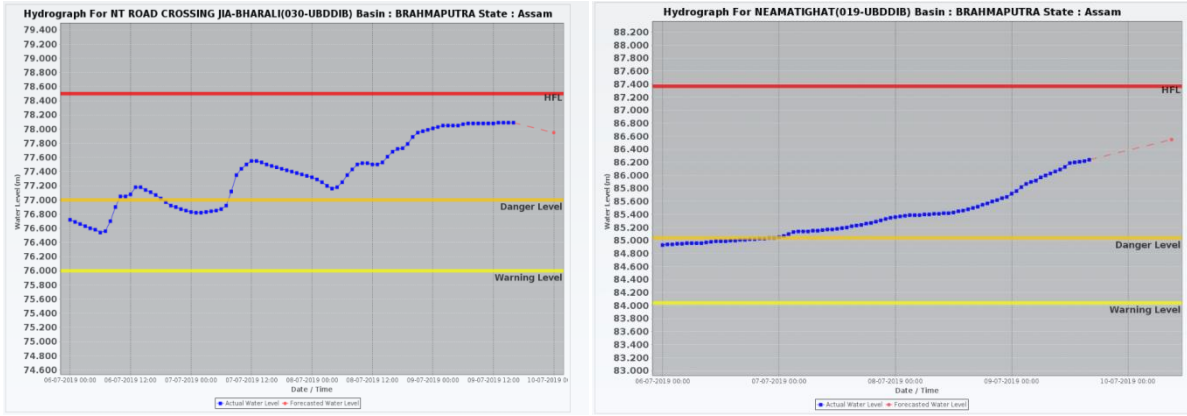
2.2 Flood Situation as per actual/ forecasted rainfall situation

IMD has forecasted heavy to very heavy rainfall with isolated extremely heavy rainfall in Bihar between 11th and 14th July, in Assam and Meghalaya, Arunachal Pradesh, Sub-Himalayan West Bengal & Sikkim, Eastern UP, Uttarakhand on 12th and 13th July 2019. Heavy to very heavy rainfall over Konkan, Goa & Coastal Karnataka, Uttarakhand and Western UP has been forecasted on 11th July 2019, in Himachal Pradesh on 13th July 2019 and Uttarakhand on 14th and 15th July 2019. Due to this warning, there is likelihood of rise in Water Levels in various river basins and the likely impact of these rains as inferred from rainfall runoff model run for 3 days advisory forecast is detailed as under:

Krishna Basin	Due to Heavy rains in Source regions of Krishna, Bhima and Tungabhadra rivers in Maharashtra & Karnataka, there is rise in water level of river Krishna, Bhima & Tungabhadra in the districts of Satara, Pune, Sangli and Kolhapur in Maharashtra and in Vijayapura, Bagalkote, Shivamogga, Chikmagalur, Ballari districts of Karnataka. The inflows into reservoirs have increased considerably and are likely to continue for another 48 hours and then reduce. However, the level are much below Full Reservoir Levels (FRL)
Konkan & Goa	West Flowing Rivers in the districts of Palghar, Thane, Raigad, Ratnagiri and Sindhudurg are likely to have flood like situation in view of the above forecast. There may be chances of Urban Flooding due to drainage congestion and water logging in urban areas of Mumbai and its suburbs for another 24 hours and then reduce.
Ganga Basin	In view of the rainfall forecast along foot hills of Uttarakhand, Himachal Pradesh, UP, Bihar as well as in catchment areas of Northern Tributaries of Ganga in Nepal, here is likely to be rapid rise in water levels in rivers such as Alaknanda, Bhagirathi, Yamuna in upper reaches, Ramganga, Ghaghra, Rapti, Sharda, Gandak, Kosi, Bagmati, Burhi Gandak, Kamla Balan, Mahananda in UP and Bihar.
Brahmaputra Basin	In view of the rainfall forecast in Arunachal Pradesh, Assam & Meghalaya, there is likely to be further increase in Water Levels in the river Brahmaputra and its tributaries such as Siang, Lohit, Buridehing, Desang, Debang, Dikhow, Subansiri, Jia-Bharali, Dhansiri (S), Kopili, Pagladiya, Puthimari, Beki, Manas, Aie, Champamati, Gaurang, Sankosh, Teesta, Raidak, Torsa, Jaldhaka in Arunachal Pradesh, Assam, Northern Districts of West Bengal

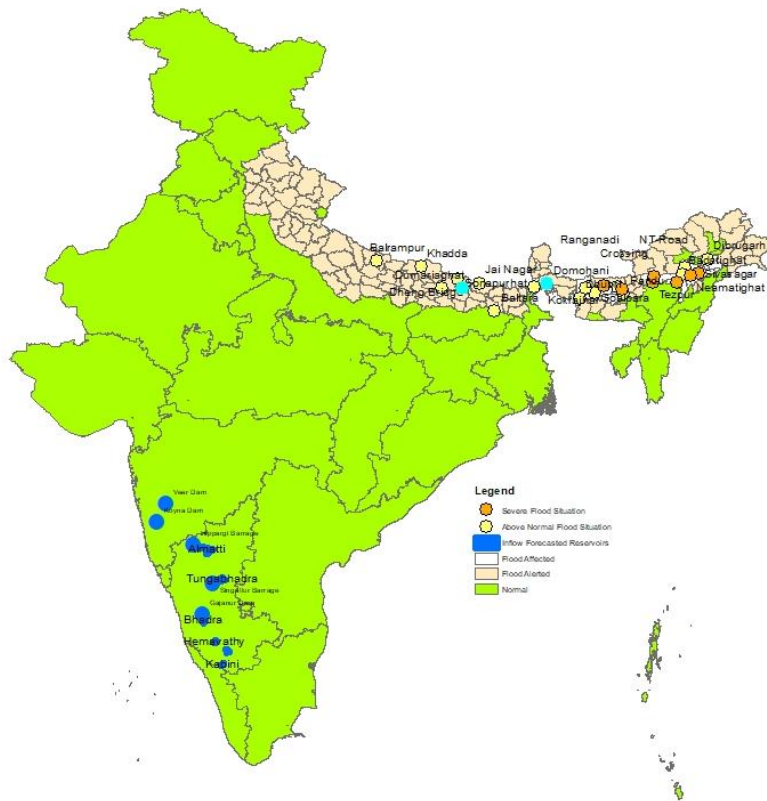
Most of the Rivers in Brahmaputra Basin have started rising. The likelihood of continuing rainfall for next 3 to 4 days in Arunachal Pradesh, Assam, Meghalaya and West Bengal, **indicates Severe to Extreme Floods in main Brahmaputra and its tributaries such as Siang, Lohit, Dikhow, Buridehing, Desang, Subansiri, Jia- Bharali, Dhansiri (South & North), Kopili, Puthimari, Pagladiya, Beki, Manas, Aie, Champamati, Gaurang, Sankosh, Torsa, Raidak, Teesta, Jaldhaka during the next one week. Necessary Precautions have to be taken and Disaster Management teams have to be placed well in advance in affected river locations.** Some of the rivers are

already flowing well above Danger Level as indicated in the hydrographs below:



Most of the Rivers in Ganga Basin have started rising. The likelihood of continuing rainfall for next 3 to 4 days in HP, Uttarakhand, UP, Bihar and in Terai region of Nepal indicates **Severe to Extreme Floods in tributaries such as Yamuna, Bhagirathi, Alaknanda, Ram Ganga, Sharda, Sarju, Ghaghra, Rapti, Gandak, Burhi Gandak, Bagmati, Adhwara Group, Kamla Balan, Kosi and Mahananda** during the next one week. Necessary Precautions have to be taken and Disaster Management teams of the respective States have to be placed well in advance in affected river locations. Inflows into Sharda Barrage, Katerniaghat Barrage in UP as well as Kosi and Gandak Barrages in Bihar are likely to rise in view of the rainfall forecast.

Map showing Flood Situation on 10.07.2019 and the Districts Alerted for next 5 days



Flood Alerted marked as per IMD Rainfall Forecast for the next 5 days in various river basins

Flood Alerted Districts for next 5 days include:

- Uttar Pradesh:** Districts covering rivers Yamuna, Ghaghra, Rapti, Sharda, Gandak
- Uttarakhand:** Districts covering rivers Bhagirathi, Alaknanda, Yamuna, Ramganga, Sharda, Sarju
- Bihar:** Districts covering Gandak, Burhi Gandak, Bagmati, Adhwara Group, Kamla Balan, Kosi, Mahananda
- Assam:** Districts covering major tributaries of Brahmaputra as well as main Brahmaputra
- Arunachal Pradesh:** Districts covering river Siang, Lohit, Kameng
- West Bengal & Sikkim:** Jalpaiguri, Coochbehar, Maldah East, West and South Districts of Sikkim