



Central Water Commission
Daily Flood Situation Report cum Advisories
16-07-2019

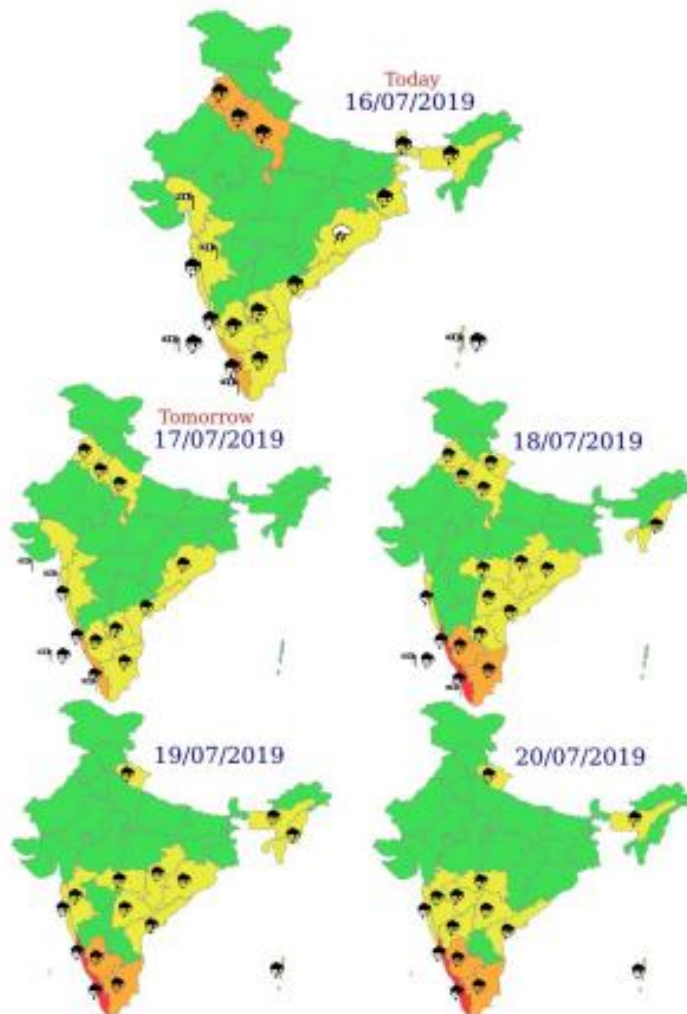
1.0 IMD information

1.1 Rainfall Situation

1.1.1 Amount of rainfall recorded at 0830 hours IST of today (7 cm or more) as per IMD

Name of Place (State)	Rainfall (in cm)
Buxaduar (West Bengal)	14
DRF, Goibergaon, Majbat (Assam)	13 each
Jhallong (West Bengal)	12
Chiplun (Maharashtra), Kannur (Kerala)	11 each
Tamulpur (Assam), A D Nagar (Tripura), Sangameshwar Devrukh & Koyna (N) (Maharashtra), Ponda (Goa), Tamaraipakkam (Tamilnadu)	10 each
Panbari (Assam), Passighat (Arunachal Pradesh), Cheerapunji & Sohra (Meghalaya). Patiala (Punjab), Car Nicobar (A & N Islands), Poladpur (Maharashtra)	9 each
Domohani, Diana (West Bengal), Taibpur (Bihar), Bhalukpong (Arunachal Pradesh), Jia-Bharali N T Road Crossing & Mushalpur (Assam), Gaganbavda (Maharashtra), Polur (Tamilnadu)	8 each
Govindapur NH5 Crossing (Odisha), Bagdogra (West Bengal), Galgalia (Bihar), Roing (Arunachal Pradesh), Ratnagiri & Lanja (Maharashtra) Agathi & Amini (Lakshadweep), Satyabama University & Arani (Tamilnadu)	7 each

1.1.2 Rainfall forecast for next 5 days issued on 16th 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

FLOOD SITUATION SUMMARY		
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))	30
C	Above Normal Flood Situation: (Site (s) where water level is touching or exceeding the Warning Level but below Danger Level)	26
Total number of sites above Warning Level (A+B+C)		56
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)		2

2.1.2 Severe Flood Situation

(Site (s) where water level is equalled or exceeded Danger Level but below Highest Flood Level (HFL))						
River	District	Warning Level (m)	Danger Level (m)	Highest flood Level (m)	Actual level	Forecasted Level
					Trend	Trend
Station	State			Date	Time	Date
Mahananda	Araria	46.0	47.3	49.4	48.31	48.25
Araria	Bihar			2017-08-14	Falling	16/7/2019
					15:00	20:00:00
Bagmati	Sitamarhi	69.1	70.1	73.0	71.1	70.9
Dheng Bridge	Bihar			2017-08-13	Steady	17/7/2019
					15:00	06:00:00
Gandak	Gopalganj	61.22	62.22	64.1	62.34	62.45
Dumariaghat	Bihar			2017-08-17	Rising	17/7/2019
					15:00	06:00:00
Barak	Cachar	15.85	16.85	18.48	17.02	
Badarpurghat	Assam			2007-09-11	Falling	
					16:00	
Beki	Barpeta	44.1	45.1	46.2	45.4	45.4
Beki Road bridge	Assam			2000-08-04	Falling	16/7/2019
					16:00	18:00:00
Kopili	Marigaon	55.0	56.0	58.09	56.73	56.72
Dharamtul	Assam			2004-07-21	Rising	16/7/2019
					15:00	21:00:00
Brahmaputra	Dhubri	27.62	28.62	30.36	30.17	30.2
Dhubri	Assam			1988-08-28	Steady	16/7/2019
					16:00	21:00:00
Brahmaputra	Goalpara	35.27	36.27	37.43	37.31	37.42
Goalpara	Assam			1954-07-31	Steady	17/7/2019
					16:00	06:00:00
Brahmaputra	Kamrup	48.68	49.68	51.46	51.23	51.25
Guwahati(D.C.Court)	Assam			2004-07-21	Rising	17/7/2019
					16:00	06:00:00
Kopili	Nagaon	59.5	60.5	61.79	60.72	60.5
Kampur	Assam			2004-07-20	Falling	17/7/2019
					15:00	09:00:00
Kushiyara	Karimganj	13.94	14.94	16.57	15.75	15.72
Karimganj	Assam			2010-06-10	Falling	16/7/2019
					16:00	18:00:00
Katakhal	Hallakandi	19.27	20.27	22.73	21.83	21.69
Matizuri	Assam			2007-09-10	Falling	16/7/2019
					16:00	18:00:00
Jlabharali	Sonitpur	76.0	77.0	78.5	77.69	77.52
NT Road Crossing Jia-Bharali	Assam			2007-07-26	Falling	17/7/2019
					15:00	00:00:00
Brahmaputra	Jorhat	84.04	85.04	87.37	86.28	86.22
Neamatighat	Assam			1991-07-11	Steady	17/7/2019
					15:00	09:00:00

Dhansiri (South)	Golaghat			80.16	78.27	
Numaligarh	Assam	76.42	77.42	2018-08-03	Falling 15:00	
Pagladiya	Nalbari			55.45	52.85	52.8 Falling
Pagladiya N T Road Crossing	Assam	51.75	52.75	2004-07-08	Steady 16:00	16/7/2019 18:00:00
Puthimari	Kamrup			55.08	53.65	53.5 Falling
Puthimari NH Rd Xing	Assam	50.81	51.81	2008-08-31	Rising 16:00	16/7/2019 19:00:00
Brahmaputra	Sonitpur			66.59	66.16	65.95 Falling
Tezpur	Assam	64.23	65.23	1988-08-27	Falling 15:00	17/7/2019 09:00:00
Kosi	Khangaria			36.4	35.58	35.67 Rising
Baltara	Bihar	32.85	33.85	1987-08-15	Rising 15:00	17/7/2019 06:00:00
Kosi	Supaul *			49.24	48.27	47.7 Falling
Basua	Bihar	46.75	47.75	2017-08-13	Falling 15:00	16/7/2019 22:00:00
Bagmati	Muzaffarpur			50.01	49.1	49.0 Falling
Benibad	Bihar	47.68	48.68	2004-07-12	Steady 15:00	17/7/2019 06:00:00
Mahananda	Purnia			38.2	37.01	37.01 Steady
Dhengraghat	Bihar	34.65	35.65	2017-08-14	Steady 15:00	17/7/2019 06:00:00
Adhwara	Darbhanga			49.52	47.0	47.4 Steady
Ekmighat	Bihar	45.94	46.94		Steady 15:00	17/7/2019 06:00:00
Kamla	Madhubani			71.35	68.72	68.2 Falling
Jainagar	Bihar	66.75	67.75		Falling 15:00	16/7/2019 22:00:00
Kamalabalan	Madhubani			53.01	51.56	51.3 Falling
Jhanjharpur	Bihar	49.0	50.0	2004-07-10	Falling 15:00	16/7/2019 22:00:00
Mahananda	Katihar			34.07	32.93	33.0 Steady
Jhawa	Bihar	30.4	31.4	2017-08-14	Rising 15:00	16/7/2019 22:00:00
Adhwara	Darbhanga			52.99	51.6	51.55 Steady
Kamtaul	Bihar	49.0	50.0	1987-08-12	Steady 15:00	17/7/2019 06:00:00
Burhi Gandak	Purba Champaran			67.09	63.4	63.5 Falling
Lalbegiaghat	Bihar	62.2	63.2	1975-07-30	Rising 15:00	17/7/2019 06:00:00
Bagmati	Sitamarhi			58.15	56.69	56.65 Falling
Runisaidpur	Bihar	52.73	53.73	2017-08-14	Steady 15:00	17/7/2019 06:00:00
Rapti	Balrampur *			105.54	104.97	104.65 Falling
Balrampur	Uttar Pradesh	103.62	104.62	2017-08-15	Steady 16:00	17/7/2019 08:00:00

2.1.3 Above Normal

Site (s) where water level is equalled or exceeded Warning Level but Less than Danger Level						
River Station	District State	Warning Level (m)	Danger Level (m)	Highest flood Level (m)	Actual level	Forecasted Level
				Date	Trend Time	Trend Date
Burhi Gandak	Purba Champaran	58.62	59.62	61.17	58.72	58.78 Steady
Ahirwalla	Bihar			Rising 15:00	17/7/2019 06:00:00	
Ganga	Budaun	161.0	162.0	162.79	161.24	161.38 Rising
Kachhlabridge	Uttar Pradesh			2010-09-24	Rising 16:00	17/7/2019 00:00:00
Gaurang	Kokrajhar	41.85	42.85	43.6	42.25	42.16 Falling
Kokrajhar	Assam			2015-08-20	Falling 16:00	16/7/2019 18:00:00
Adhwara	Sitamarhi	80.85	81.85	83.0	81.66	81.4 Falling
Sonbarsa	Bihar			Falling 15:00	17/7/2019 06:00:00	
Mahananda	Kishangani	65.0	66.0	67.22	65.96	66.15 Steady
Taibpur	Bihar			Rising 13:00	16/7/2019 20:00:00	
Siang	East Siang	152.96	153.96	157.54	153.49	
Passighat	Arunachal Pradesh			2000-06-11	Falling 15:00	
Barak	Cachar	18.83	19.83	21.84	19.14	19.11 Falling
Annapurnaghat	Assam			1989-08-01	Falling 16:00	16/7/2019 19:00:00
Subansiri	Lakhimpur	81.53	82.53	86.21	82.5	82.36 Falling
Badatighat	Assam			1972-07-28	Falling 15:00	17/7/2019 00:00:00
Buridehing	Dibrugarh	101.11	102.11	104.16	101.47	101.15 Falling
Chenimari (Khowang)	Assam			2015-09-02	Falling 15:00	17/7/2019 06:00:00
Brahmaputra	Dibrugarh	104.7	105.7	106.48	105.12	105.16 Steady
Dibrugarh	Assam			1998-09-03	Falling 15:00	16/7/2019 18:00:00
Sankosh	Dhubri	28.94	29.94	30.95	29.89	29.85 Falling
Golokganj	Assam			2007-09-08	Falling 13:00	16/7/2019 18:00:00
Manas	Barpeta	47.81	48.42	50.08	48.19	48.21 Rising
Manas N H Crossing	Assam			1984-09-15	Rising 16:00	16/7/2019 18:00:00
Ranganadi	Lakhimpur	93.81	94.81	95.92	93.87	93.82 Falling
Ranganadi NT Road crossing	Assam			1979-07-02	Steady 15:00	16/7/2019 18:00:00
Ghagra	Siwan	59.82	60.82	61.74	60.28	60.23 Steady
Darauli	Bihar			1998-08-29	Steady 15:00	17/7/2019 08:00:00

Ghagra	Siwan			58.01	56.41	56.41	Steady		
Gangpur Siswan	Bihar	56.04	57.04	1983-09-18	Steady	17/7/2019	15:00	04:00:00	
Bagmati	Darbhanga			48.96	44.95	45.8	Rising		
Hayaghat	Bihar	44.72	45.72	1987-08-14	Rising	17/7/2019	15:00	06:00:00	
Burhi Gandak	Muzaffarpur			54.29	51.99	52.2	Steady		
Sikandarpur (Muzzafarpur)	Bihar	51.53	52.53	1987-08-15	Rising	17/7/2019	15:00	06:00:00	
Ghagra	Faizabad			94.01	92.27	92.2	Falling		
Ayodhya	Uttar Pradesh	91.73	92.73	2009-10-11	Falling	17/7/2019	16:00	08:00:00	
Rapti	Sidharthnagar			85.88	84.11	84.15	Rising		
Bansi	Uttar Pradesh	83.9	84.9	2017-08-20	Steady	17/7/2019	16:00	08:00:00	
Ghagra	Bara Banki			107.616	105.68	105.5	Falling		
Elginbridge	Uttar Pradesh	105.07	106.07	2014-08-16	Falling	17/7/2019	16:00	08:00:00	
Gandak	Kushinagar *			97.5	95.07	95.13	Rising		
Khadda	Uttar Pradesh	95.0	96.0	2002-07-23	Falling	16/7/2019	15:00	22:00:00	
Ghagra	Ballia			66.0	63.89	63.95	Rising		
Turtipar	Uttar Pradesh	63.01	64.01	1998-08-28	Steady	17/7/2019	16:00	08:00:00	
Teesta	Jalpaiguri			89.3	85.78	85.75	Falling		
DOMOHANI	West Bengal	85.65	85.95	1968-10-04	Steady	16/7/2019	13:00	21:00:00	
Torsa	Koch Bihar			41.46	39.9	39.88	Rising		
Ghugumari	West Bengal	39.8	40.41	2000-08-03	Rising	16/7/2019	13:00	19:00:00	
Jaldhaka	Jalpaiguri			82.33	80.03				
Jaldhaka NH-31	West Bengal	80.0	80.9	1972-07-28	Steady		13:00		
Raidak-I	Koch Bihar			36.5	34.8	34.8	Falling		
Tufanganj	West Bengal	34.22	35.3	2017-08-12	Falling	16/7/2019	13:00	18:00:00	

2.1.4 Reservoir

Reservoir/Barrage receiving Inflow more than the Threshold limit												
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	520.04974	08:00	Falling	1450.0	Falling	17/7/2019	08:00:00
Krishna	Almatti Dam	Bijapur	Karnataka	519.6	519.6	518.19	12:00	Rising	1600.0	Falling	17/7/2019	08:00:00

2.2 Flood Situation as per actual/ forecasted rainfall situation

IMD has forecasted Heavy to Very Heavy rain at a few places with isolated Extremely Heavy rainfall in Kerala & Mahe Division of Puducherry and Coastal Karnataka from 19th to 21st July and advisory for the same rainfall to continue on 22nd and 23rd July also. Heavy to very heavy rainfall in Punjab, Haryana, Chandigarh & Delhi on 17th and then slowly reduce by 20th July 2019. Heavy to very heavy rain has been forecasted for Kerala and Mahe on 17th and 18th July, South Interior Karnataka and Ghat areas of Tamilnadu during 19th to 21st July 2019. There is general forecast for increase of rainfall in Southern Peninsular India and over Odisha and Chhattisgarh from tomorrow onwards.

2.2.1 Assam

Most of the Rivers in Brahmaputra & Baraka Basin are flowing in Severe Flood Situation in Arunachal Pradesh, Assam, Sub-Himalayan West Bengal. Tributaries of Brahmaputra have started falling and Main River Brahmaputra is in Steady Condition from Guwahati to Dhubri. The situation is likely to continue for another 2-3 days and then slowly recede as the rainfall activity has been forecasted to reduce.

2.2.2 Bihar

Rivers Bagmati, Adhwara Group, Kamla Balan, Kosi and Mahananda continue in Severe Flood Situation. Severe Flood Situation is likely to continue for another 2-3 days and then slowly recede as rainfall activity has been forecasted to reduce.

2.2.3 Kerala,

Due to the rainfall predicted, there is likelihood of rapid rise in Water Levels in rivers in Kerala in the basins Periyar, Chalakudi, Bharathapuzha, Valapatnam and Kabini in the districts of Idukki, Ernakulam, Thrissur, Palakkad, Malapuram, Wynadu and Kannur. Since most of the dams in these rivers are having very low storage, the rainfall in the catchment upstream of these dams will help improve the storage levels of the reservoirs. However, in the downstream of the dams in the river due to precipitation from free catchment, there is likelihood of rapid rise in Water Levels for which necessary precautions have to be taken.

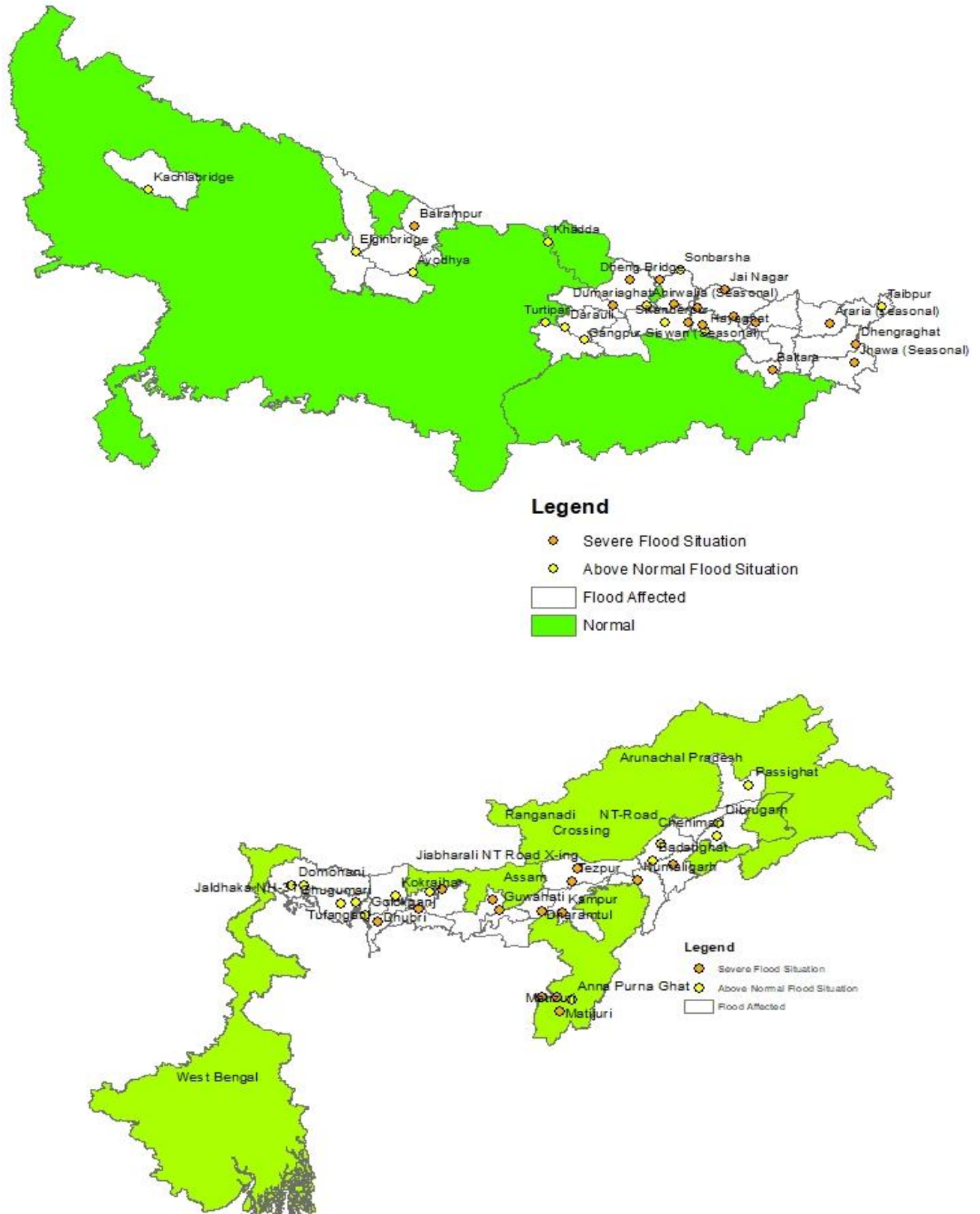
2.2.4 Karnataka

Due to the rainfall predicted, there is likelihood of rapid rise in Water Levels in rivers in Karnataka in the basins of Cauvery, Tunga, Bhadra and West Flowing rivers such as Netravathi in the districts of Kodagu, Chikmagalur, Hassana, Shivamogga, Dakshina Kannada, Udupi and Uttara Kannada. Since most of the dams in these rivers are having very low storage, the rainfall in the catchment upstream of these dams will help improve the storage levels of the reservoirs. However, in the downstream of dam in the river due to precipitation from free catchment, there is likelihood of rapid rise in Water Levels for which necessary precautions have to be taken.

2.2.5 Tamilnadu

Due to the rainfall predicted, there is likelihood of rapid rise in Water Levels in rivers in Hilly regions of Coimbatore, Nilgiris, Theni, Dindigul, Tirunelveli and Kanyakumari in the basins of Bhavani, Amaravathy, Moyar, Vaigai, and Tamraparini. Since most of the dams in these rivers are having very low storage, the rainfall in the catchment upstream of these dams will help improve the storage levels of the reservoirs.

Map showing Flood Situation in UP & Bihar and Brahmaputra & Barak Basin on 15.07.2019



Flood Affected Districts include:

- Bihar:** Araria, Sitamarhi, Gopalganj, Kishanganj, Purnia, Madhubani, Katihar, Muzaffarpur.
- Assam:** Dibrugarh, Lakhimpur, Jorhat, Golaghat, Sonitpur, Nagaon, Morigaon, Kamrup, Barpeta, Goalpara, Dhubri, Cachar, Hailakhandi, Karimganj
- Arunachal Pradesh:** East Siang
- West Bengal & Sikkim:** Jalpaiguri, Coochbehar, Maldah
- Uttar Pradesh:** Barabanki, Faizabad, Balrampur, Kushalnagar, Ballia, Budaun