



Central Water Commission
Daily Flood Situation Report cum Advisories
21-07-2019

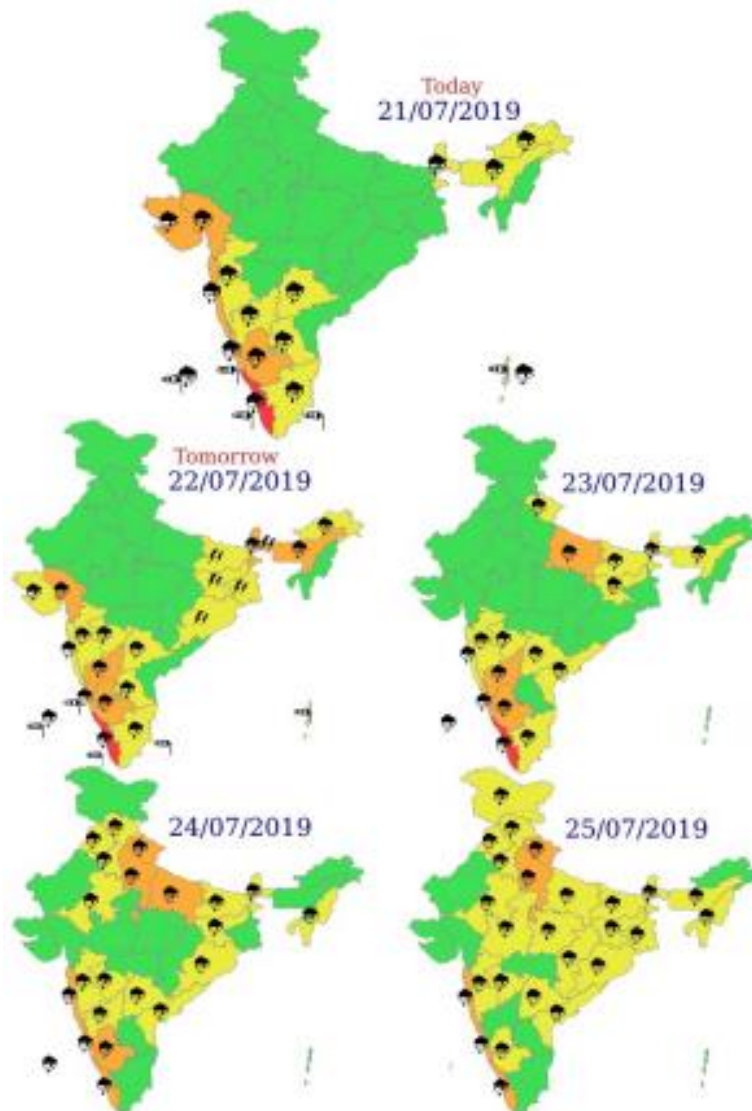
1.0 IMD information

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)
Vadakara (Kerala)	17
Kollur (Karnataka)	15
Akbarpur (Uttar Pradesh)	13
Kannad, Ahmednagar & Jamner (Maharashtra), Karkala & Agumbe (Karnataka)	12 each
Alipurduar & Falakata (West Bengal), Khed (Maharashtra), Siddapur (Karnataka)	11 each
Bazarhatnur (Telangana), Kottigehera & Hosanagara (Karnataka), Thalassery & Hosdurg (Kerala)	10 each
Rewari (Haryana), Ulhasnagar & Chalisgaon (Maharashtra), Mudibidre (Karnataka), Chinnakallar (Tamilnadu), Nancowrie (A & N Islands)	9 each
Dholabazar (Assam), Nizer, Surat & Ukai Dam (Gujarat), Tala, Nevasa (Maharashtra), Khanpur & Utnur (Telangana), Kundapur, Kota, Puttur & Bhagamandala (Karnataka), Idukki, Quilandy & Taliparamba (Kerala)	8 each
Udhampur (Jammu & Kashmir), Gangtok (Sikkim), Maranhat (Assam), Rajpipla, Songadh & Uchchhal (Gujarat), Miraj, Dhule, Nawapur, Girna Dam, Pachora, Yeola, Amalner, Dahigaon & Koyna (Maharashtra), Valparai & Sholaiyar (Tamilnadu), Kannur & Irikur (Kerala)	7 each

1.1.2 Rainfall forecast for next 5 days issued on 21st 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))	19
C	Above Normal Flood Situation: (Site (s) where water level is touching or exceeding the Warning Level but below Danger Level)	15
D	Normal Flood Situation with Forecast: (Site (s) where water level is below Warning Level but Forecast Issued)	2
Total number of sites above Warning Level (A+B+C)		36
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)		5

2.1.2 Severe Flood Situation

(Site (s) where water level is equalled or exceeded Danger Level but below Highest Flood)						
River	District	Warning Level (m)	Danger Level (m)	Highest Flood Level (m)	Actual level	Forecasted Level
Station	State			Date	Trend	Trend
					Time	Date
						Time
Mahananda	Araria	46.0	47.3	49.4	47.49	47.5
Araria	Bihar				2017-08-14	Steady
					14:00	20:00:00
Bagmati	Sitamarhi	69.1	70.1	73.0	70.13	70.0
Dheng Bridge	Bihar				2017-08-13	Rising
					13:00	06:00:00
Kopili	Marigaon	55.0	56.0	58.09	56.17	56.15
Dharambul	Assam				2004-07-21	Falling
					13:00	21:00:00
Brahmaputra	Dhubri	27.62	28.62	30.36	29.59	29.48
Dhubri	Assam				1988-08-28	Falling
					13:00	21:00:00
Jiabharali	Sonitpur	76.0	77.0	78.5	77.08	77.22
NT Road Crossing Jia-Bharali	Assam				2007-07-26	Rising
					13:00	15:00:00
Brahmaputra	Jorhat	84.04	85.04	87.37	85.27	85.27
Neamatighat	Assam				1991-07-11	Steady
					12:00	09:00:00
Kosi	Khangaria	32.85	33.85	36.4	34.77	34.8
Baltara	Bihar				1987-08-15	Steady
					14:00	06:00:00
Bagmati	Muzaffarpur	47.68	48.68	50.01	48.95	49.0
Benibad	Bihar				2004-07-12	Steady
					14:00	06:00:00
Mahananda	Purnia	34.65	35.65	38.2	36.0	36.15
Dhengrghat	Bihar				2017-08-14	Rising
					14:00	06:00:00
Adhwara	Darbhanga	45.94	46.94	49.52	47.55	47.6
Eknight	Bihar					Rising
					14:00	06:00:00
Bagmati	Darbhanga	44.72	45.72	48.96	46.28	46.2
Hayaghat	Bihar				1987-08-14	Steady
					14:00	06:00:00
Kamia	Madhubani	66.75	67.75	71.35	67.86	67.85
Jainagar	Bihar					Falling
					14:00	16:00:00
Kamalabalan	Madhubani	49.0	50.0	53.01	50.08	50.0
Jhanyarpur	Bihar				2004-07-10	Steady
					14:00	16:00:00
Mahananda	Katihar	30.4	31.4	34.07	31.83	31.75
Jhawa	Bihar				2017-08-14	Steady
					14:00	22:00:00
Adhwara	Darbhanga	49.0	50.0	52.99	50.02	50.0
Kamtaul	Bihar				1987-08-12	Steady
					14:00	06:00:00
Burhi Gandak	Samastipur	41.63	42.63	46.35	43.69	43.95
Rosera	Bihar				1987-08-16	Rising
					14:00	10:00:00
Bagmati	Sitamarhi	52.73	53.73	58.15	55.4	55.45
Runisaidpur	Bihar				2017-08-14	Rising
					13:00	06:00:00
Burhi Gandak	Samastipur	45.02	46.02	49.38	46.35	46.47
Samastipur	Bihar				1987-08-15	Rising
					14:00	02:00:00
Burhi Gandak	Muzaffarpur	51.53	52.53	54.29	52.69	52.69
Sikandarpur (Muzaffarpur)	Bihar				1987-08-15	Steady
					13:00	06:00:00

2.1.3 Above Normal

Site (s) where water level is equalled or exceeded Warning Level but Less than Danger						
River Station	District State	Warning Level (m)	Danger Level (m)	Highest flood Level (m)	Actual level	Forecasted Level
				Date	Trend Time	Trend Date Time
Burhi Gandak	Purba Champaran	58.62	59.62	61.17	58.94	58.85 Falling
Ahirwalla	Bihar				Steady 12:00	22/7/2019 06:00:00
Gandak	Gopalganj	61.22	62.22	64.1	61.48	61.48 Steady
Dumariaghat	Bihar				2017-08-17 13:00	22/7/2019 06:00:00
Ganga	Budaun	161.0	162.0	162.79	161.11	160.98 Falling
Kachhiabridge	Uttar Pradesh				2010-09-24 12:00	22/7/2019 00:00:00
Adhwara	Sitamarhi	80.85	81.85	83.0	80.9	80.65 Steady
Sonbarsa	Bihar				Falling 14:00	22/7/2019 06:00:00
Mahananda	Kishanganj	65.0	66.0	67.22	65.42	65.4 Steady
Taibpur	Bihar				Rising 14:00	21/7/2019 20:00:00
Beki	Barpeta	44.1	45.1	46.2	44.77	44.78 Rising
Beki Road bridge	Assam				2000-08-04 13:00	21/7/2019 18:00:00
Brahmaputra	Goalpara	35.27	36.27	37.43	36.1	35.9 Falling
Goalpara	Assam				1954-07-31 14:00	22/7/2019 06:00:00
Kushiyara	Karimganj	13.94	14.94	16.57	14.35	14.4 Rising
Karimganj	Assam				2010-06-10 13:00	21/7/2019 18:00:00
Dhansiri (South)	Golaghat	76.42	77.42	80.16	76.63	76.64 Steady
Numailgarh	Assam				2018-08-03 12:00	21/7/2019 16:00:00
Puthimari	Kamrup	50.81	51.81	55.08	51.36	51.35 Falling
Puthimari NH Rd Xing	Assam				2008-08-31 14:00	21/7/2019 19:00:00
Brahmaputra	Sonitpur	64.23	65.23	66.59	64.71	64.7 Steady
Tezpur	Assam				1988-08-27 13:00	22/7/2019 09:00:00
Burhi Gandak	Purba Champaran	62.2	63.2	67.09	63.12	62.9 Steady
Lalbegiaghat	Bihar				1975-07-30 12:00	22/7/2019 06:00:00
Ghagra	Balla	63.01	64.01	66.0	63.26	63.17 Falling
Turtipar	Uttar Pradesh				1998-08-28 13:00	22/7/2019 08:00:00
Ganga	Murshidabad	21.25	22.25	25.14	21.36	21.41 Falling
Farakka(FF)	West Bengal				1998-09-07 12:00	21/7/2019 20:00:00
Teesta	Jalpaiguri	85.65	85.95	89.3	85.66	85.6 Falling
DOMOHANI	West Bengal				1968-10-04 14:00	21/7/2019 18:00:00
Brahmaputra	Kamrup	48.68	49.68	51.46	48.67	48.5 Falling
Guwahati(D.C.Court)	Assam				2004-07-21 14:00	22/7/2019 06:00:00

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
Periyar	Edamattayar Dam	Emakulam	Kerala	169.0		129.83	10.00	Rising	200.0	Falling	22/7/2019	06:00:00
Periyar	Idukki Dam	Idukki	Kerala	732.43		704.03	10.00	Rising	300.0	Steady	22/7/2019	06:00:00
Bhadra	Bhadra Dam	Chikmagalur	Karnataka	657.75	657.75	642.8232	08.00	Rising	130.0	Steady	22/7/2019	08:00:00
Kabini	Kabini Dam	Mysore	Karnataka	696.16		692.0484	08.00	Rising	240.0	Steady	22/7/2019	08:00:00
Tunga	Upper Tunga Project	Shimoga	Karnataka	588.24	588.24	588.2396	08.00	Steady	370.0	Rising	22/7/2019	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 from 22nd to 24th July and slow reduction after 25th July. Heavy to Very Heavy rainfall at isolated places has been forecasted in Karnataka from 22nd to 24th July. Heavy to Very Heavy rain at isolated places has been forecasted in Gujarat region, Konkan & Goa and Madhya Maharashtra. Slow increase in rainfall has been predicted for Himachal Pradesh, Uttarakhand, Uttar Pradesh, Madhya Pradesh, Assam, Meghalaya and Arunachal Pradesh from 22nd July 2019 onwards.

2.2.1 Assam

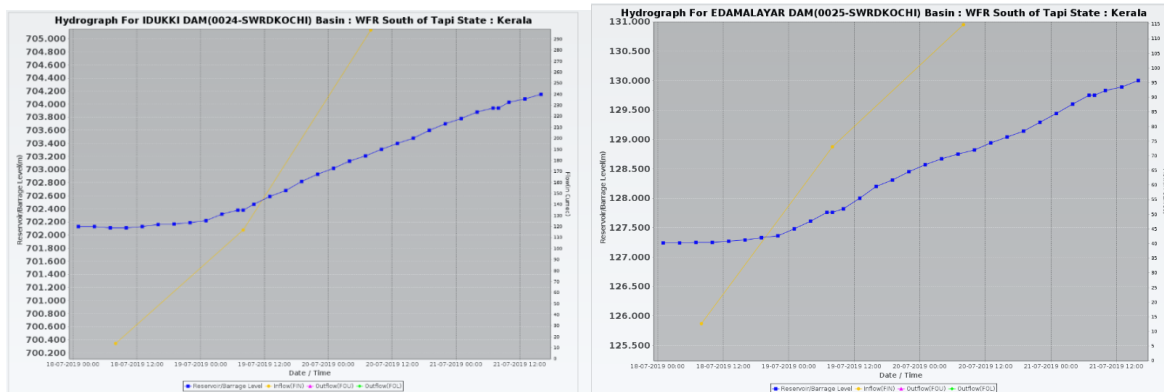
There has been significant fall in river levels in most of the river in Brahmaputra and Barak Basin. Since no rain is predicted for next 3 days, the falling level is likely to continue for another 3-4 days.

2.2.2 Bihar

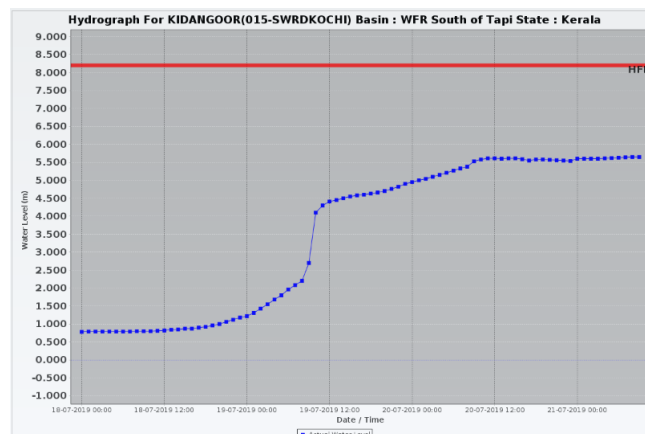
Rivers Gandak, Burhi Gandak, Bagmati, Adhwara Group, Kamla Balan, Kosi and Mahananda continue in Severe to Above Normal Flood Situation with falling trend. This is likely to continue for another 2-3 days and then slowly recede as no rainfall activity has been forecasted.

2.2.3 Kerala

Due to the ongoing rainfall for the past two days, many of the rivers have risen significantly during the last 48 hours. Inflows into Idukki and Edamalayar Dams in Periyar Basin have also increased. Hydrographs of the two dams are enclosed.



There is likelihood of rapid rise in Water Levels in rivers in Kerala in the basins Pamba, Periyar, Chalakudi, Bharathapuzha, Valapatnam and Kabini in the districts of Idukki, Pattanamthitta, Ernakulam, Thrissur, Palakkad, Malappuram, Wynad 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 to 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. As per the latest trends, it is seen that River Meenachil at Kidangoor in Kottayam District has started rising due to ongoing rainfall activity. Hydrograph is attached.



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, Chikmagaluru, 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. If rainfall is continuing for such intensity in these districts and in their catchment areas in Kerala then dams in Bhavani and Amaravathy may fill up fast. Accordingly project authorities should take precaution.

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
Uttar Pradesh: Barabanki, Faizabad, Balrampur, Kushinagar, Ballia, Badaun.

Flood Alerted for next 5 days

Kerala: Idukki, Ernakulam, Thrissur, Palakkad, Wynad, Kannur, Kasaragod
Karnataka: Chikmagaluru, Hassana, Kodagu, Shivamogga, Dakshina Kannada, Udupi and Uttara Kannada
Tamilnadu: Nilgiris, Coimbatore, Theni, Dindigul, Tirunelveli and Kanyakumari