



Central Water Commission
Upper Ganga Basin Organisation, Lucknow
Daily Flood Situation Report Cum Advisories
Date: 18 July, 2020

FSR No.26

Dated 18-07-2020

1. Weather forecast by IMD

I.SYNOPTIC SITUATION:

- The monsoon trough at mean sea level now passes through Ajmer, Morena, Fatehpur, Churk, Hazratganj, Shanti Niketan and thence eastwards to Tripura..
- A cyclonic circulation lies over south Rajasthan & neighbourhood and extends upto 0.9 km above mean sea level.

II.a) DETERMINISTIC FORECAST (QPF):

Sr. No.	BASIN NAME	SUBBASIN CODE/NAME	QPF (mm)		
			Day-1	Day-2	Day-3
1	Alaknanda	Alaknanda	11-25	11-25	11-25
2	Bhagirathi	Bhagirathi	0.1-10	0.1-10	11-25
3	Ganga	Chhatnag to Mirzapur	0.1-10	0.1-10	0.1-10
		Narora to Phaphamau	0.1-10	0.1-10	11-25
		Phaphamau to Ballia	0.1-10	0.1-10	0.1-10
		Gomti	0.1-10	0.1-10	11-25
		Sai	0.1-10	0.1-10	11-25
		Upper Ganga	0.1-10	11-25	26-50
4	Ghaghra	Lower Ghaghra	0.1-10	0.1-10	11-25
		Middle Ghaghra	0.1-10	11-25	26-50
		Upper Ghaghra	0.1-10	11-25	11-25
5	Ramganga	Ramganga	0.1-10	11-25	11-25
6	Rapti	Rapti	0.1-10	0.1-10	11-25
7.	Sharda	Sharda	11-25	11-25	26-50

II (b) DETERMINISTIC FORECAST (DISTRIBUTION)

	BASIN NAME	SUBBASIN CODE/NAME	INTENSITY (I) & SPATIAL DISTRIBUTION (D)					
			Day-1		Day-2		Day-3	
			I	D	I	D	I	D
1	Alaknanda	Alaknanda	M	SCT	L	ISOL	L	ISOL
2	Bhagirathi	Bhagirathi	M	SCT	L	ISOL	L	ISOL
3	Ganga	Chhatnag to Mirzapur	VL	ISOL	M	SCT	M	SCT
		Narora to Phaphamau	L	ISOL	M	SCT	M	FWS
		Phaphamau to Ballia	L	SCT	M	SCT	M	SCT
		Gomti	VL	ISOL	M	SCT	M	SCT
		Sai	VL	ISOL	M	SCT	M	SCT
		Upper Ganga	M	FWS	M	SCT	M	FWS
4	Ghaghra	Lower Ghaghra	L	SCT	M	FWS	M	SCT
		Middle Ghaghra	L	SCT	M	FWS	M	SCT
		Upper Ghaghra	M	FWS	M	FWS	M	SCT
5	Ramganga	Ramganga	M	SCT	L	SCT	M	FWS
6	Rapti	Rapti	L	SCT	M	FWS	M	SCT
7.	Sharda	Sharda	M	FWS	M	FWS	M	FWS

QPF in Ranges (mm)	UNLISTED	0	0.1-10	11-25	26-50	51-100	>100
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III. HEAVY RAINFALL WARNING:

NAME OF BASIN	NAME OF SUB- BASIN	Day-1		Day-2		Day-3	
		I	D	I	D	I	D
Alaknanda	Alaknanda	H	ISOL			H	ISOL
Bhagirathi	Bhagirathi	H	ISOL				
Ganga	Chhatnag to Mirzapur						
	Narora to Phaphamau						
	Phaphamau to Ballia						
	Gomti			H	ISOL	H	ISOL
	Sai			H	ISOL	H	ISOL
	Upper Ganga	H	ISOL				
Ghaghra	Lower Ghaghra						
	Middle Ghaghra			H	ISOL		
	Upper Ghaghra	H	ISOL	H	ISOL		
Ramganga	Ramganga	H	ISOL			H	ISOL
Rapti	Rapti					H	ISOL
Sharda	Sharda	H	ISOL	H	ISOL		

Spatial Distribution of Rainfall		
DRY	Dry	No Station reported rainfall
ISOL	One or two Places	25% or less number of stations recorded rainfall 2.5 mm
SCT	At a few Places	26%-50% number of stations recorded rainfall 2.5 mm
FWS	At many Places	51%-75% number of stations recorded rainfall 2.5 mm
WS	At most places	76%-100% number of stations recorded rainfall 2.5 mm

Intensity of Rainfall					
MDRY	NIL	0 cm	VL	Very Light Rainfall	Trace
L	Light Rainfall	Upto 1 cm	M	Moderate rainfall	02-06 cm
H	Heavy rainfall	07-11 cm	VH	Very Heavy rainfall	12-20 cm
EH	Extremely Heavy rainfall	21 cm or More			
ExH	Exceptionally Heavy Rainfall	When the amount is a value near about the highest recorded rainfall at or near the station for the month or season. However, this term will be used only when the actual rainfall amount exceeds 12 cm			

IV. PROBABILISTIC FORECAST

S. No.	BASIN NAME	SUBBASIN CODE/NAME	Day-1						Day-2						Day-3					
			0 mm	0.1-10 mm	11-25 mm	26-50 mm	51-100 mm	>100 mm	0 mm	0.1-10 mm	11-25 mm	26-50 mm	51-100 mm	>100 mm	0 mm	0.1-10 mm	11-25 mm	26-50 mm	51-100 mm	>100 mm
1	Alaknanda	Alaknanda		25-50	50-75	5-25				50-75	25-50					50-75	25-50			
2	Bhagirathi	Bhagirathi			50-75					50-75	25-50					50-75	25-50			
3	Ganga	Chhatnag to Mirzapur		75-100	5-25					25-50	50-75	5-25				25-50	50-75	5-25		
		Narora to Phaphamau		75-100	5-25					25-50	50-75	5-25					25-50	50-75	5-25	
		Phaphamau to Ballia		75-100	5-25					25-50	50-75	5-25				25-50	50-75	5-25		
		Gomti		75-100	5-25					25-50	50-75	5-25				25-50	50-75	5-25		
		Sai		75-100	5-25					25-50	50-75	5-25				25-50	50-75	5-25		
		Upper Ganga			25-50	50-75	5-25			25-50	50-75	5-25					25-50	50-75	5-25	
4	Ghaghra	Lower Ghaghra		50-75	25-50						25-50	50-75	5-25			25-50	50-75	5-25		
		Middle Ghaghra		50-75	25-50						25-50	50-75	5-25			25-50	50-75	5-25		
		Upper Ghaghra		25-50	50-75	5-25					25-50	50-75	5-25			25-50	50-75	5-25		
5	Ramganga	Ramganga		25-50	50-75	5-25				25-50	50-75	5-25					25-50	50-75	5-25	
6	Rapti	Rapti		50-75	25-50						25-50	50-75	5-25			25-50	50-75	5-25		
7.	Sharda	Sharda		25-50	50-75	5-25					25-50	50-75	5-25				25-50	50-75	5-25	

Probability of occurrence (%)	0-5	5-25	25-50	50-75	75-100
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2. Summary of flood situation as per CWC flood forecasting network

Flood Situation on 18JULY, 2020



2.1 Rainfall Situation

Amount of rainfall recorded at 8:30 hours IST of today (≥ 50 mm or more)

Name of Place (State)	Rainfall (in mm)
Chisapani (Nepal)	64.8
Bangapani (U.K)	169.4
Thal (U.K)	85.2

2.2 LEVEL FORECAST

LEVEL FORECAST		
S.No.	Flood Situations	No. of Forecasting Sites
A.	Extreme Flood Situation:	
	(Site (s) where the previous Highest Flood Level (HFL) is exceeded or equalized)	0
B.	Severe Flood Situation :	
	(Site(s) where water Level touching or exceeding the Danger Level but below Highest Flood Level(HFL)	2
C.	Above Normal Flood Situation:	
	(Site (s) where water level touching or exceeding the warning Level but below Danger Level)	2
Total Numbers of Sites above Warning Level (A+B+C)		4
INFLOW FORECAST		
Number of Sites for which inflow forecasts issued:		0
(Where inflow are equal or exceed the specified Threshold Limit for a particular reservoir/ barrage)		0

2.3 Above Normal (Water Level touching or exceeding the warning Level but below Danger Level)

Name of river	Flood Forecasting Sites	District	State	Danger Level(m)	Warning Level (m)	Previous Highest		Actual Level			Forecast			
						Level (m)	Date	Level (m)	Time	Trend	Level (m)	Date	Time	Trend
Ghaghra	Turtipar	Baliya	U.P	64.01	63.01	66.00	1998	63.83	0800	S	63.78	19.07.20	0800	F
Ghaghra	Ayodhya	Faizabad	U.P	92.73	91.73	94.01	2009	92.20	0800	S	92.30	19.07.20	0800	R

2.4 Severe Flood Situation (Water Level touching or exceeding the Danger Level but below Highest Flood Level (HFL))

Name of river	Flood Forecasting Sites	District	State	Danger Level(m)	Warning Level (m)	Previous Highest		Actual Level			Forecast			
						Level(m)	Date	Level(m)	Time	Trend	Level (m)	Date	Time	Trend
Ghaghra	Elgin Bridge	Barabanki	U.P.	106.07	105.07	107.616	2014	105.926	0800	R	106.15	19.07. 20	0800	R
Rapti	Birdghat	Gorakhpur	U.P	74.98	73.98	77.54	1998	75.39	0800	F	75.20	19.07.20	0800	F

2.5 Extreme Flood Situation (Water Level exceeded or equalized Highest Flood Level (HFL))

Name of river	Flood Forecasting Sites	District	State	Danger Level(m)	Warning Level (m)	Previous Highest		Actual Level			Forecast			
						Level(m)	Date	Level(m)	Time	Trend	Level (m)	Date	Time	Trend

Note - No Station in this situation Dated 18.07.2020

2.6 Inflow Forecast

Name of river	Flood Forecasting Sites	District	State	HFL(m)	FRL(m)	Previous Highest		Actual Level			Forecast			
						Discharge (Q)	Date	Discharge (Q)	Time	Trend	D (Q)	Date	Time	Trend

Note - No Station in this situation Dated 18.07.2020

Advisory on Hydro Meteorological Situation Expected from 19-07-2020 to 20-07-2020

As per rainfall pattern given in section II, Alaknanda, Bhagirathi, Ganga rivers are expected to receive light rain at isolated area in next 48 hrs. GhaghraRamganga, Sharda&Rapti river basin received light to moderate rain at isolated places in next 48 hours. Water level at most of CWC station is expected to rise in next 48 hours. From the given QPF, above normal flood like situation is expected in most of river basins. Level forecast will be issued if the level of river at stations is likely to touch or cross warning level.

अधिशालसीअभियंता

मध्य गंगा मण्डल -1 लखनऊ

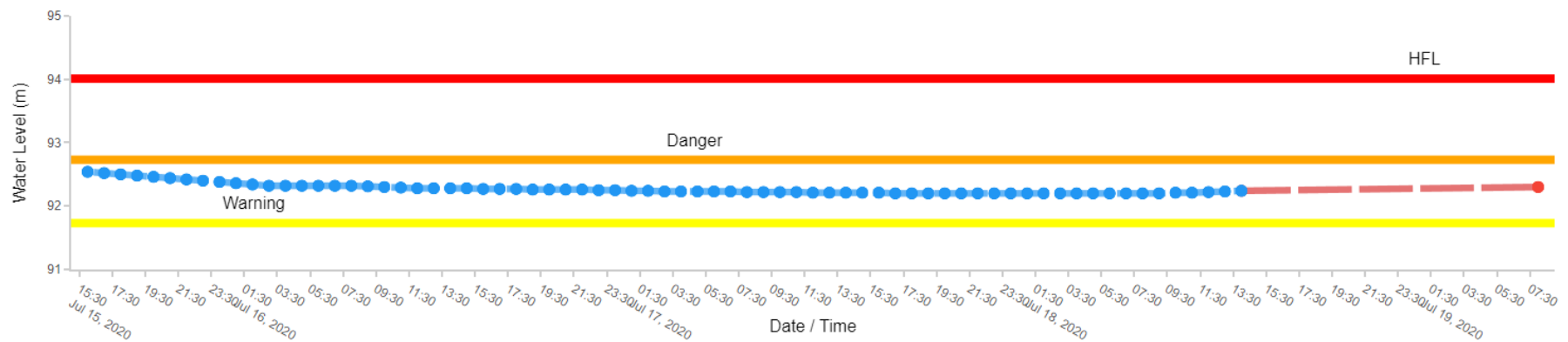


Hydrograph view of - Ayodhya



District	Basin	River	Division
FAIZABAD	Ganga	Ghagra	Middle Ganga Division-I(MGD-I), Lucknow

Forecasted Water Level Measured Water Level



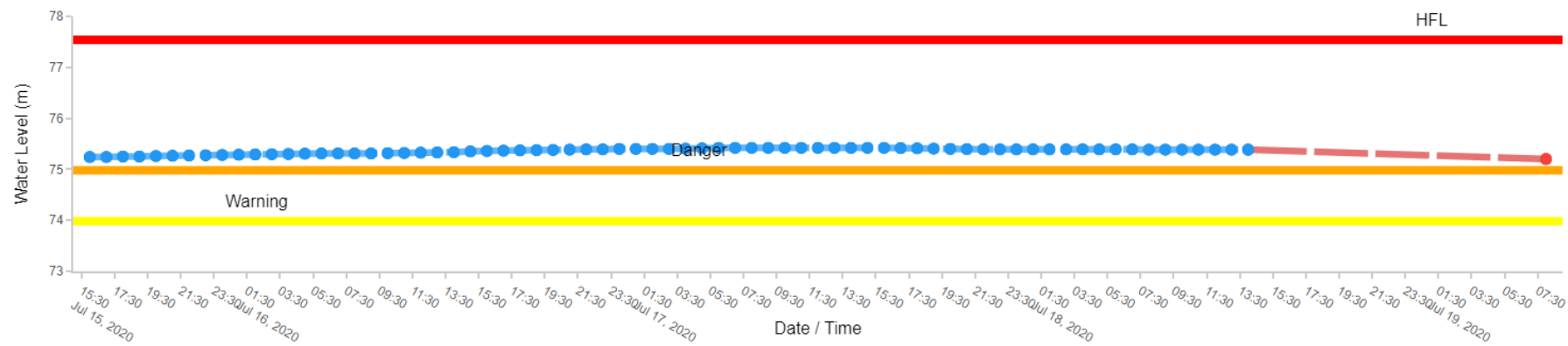


Hydrograph view of - Birdghat



District	Basin	River	Division
GORAKHPUR	Ganga	Rapti	Middle Ganga Division-I(MGD-I), Lucknow

Forecasted Water Level Measured Water Level



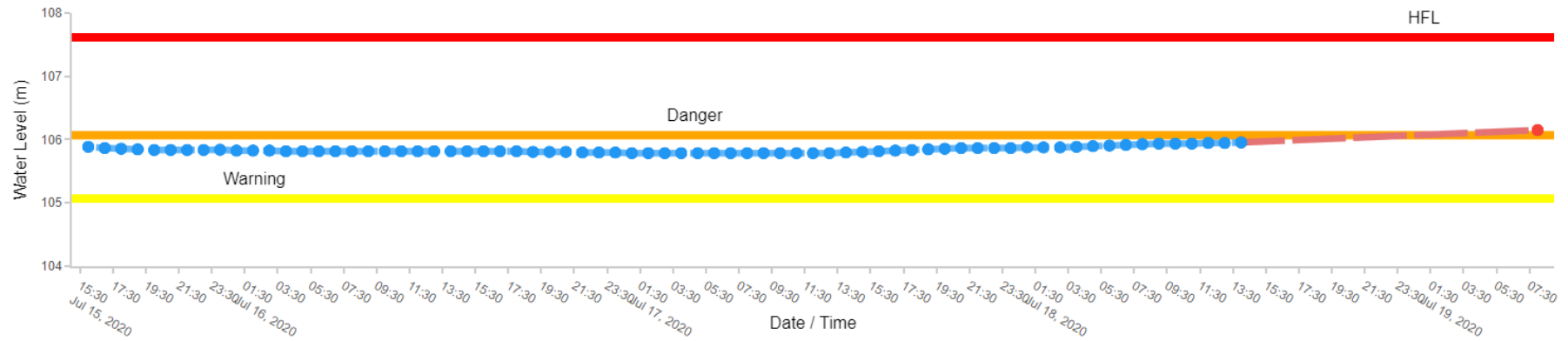


Hydrograph view of - Elginbridge



District	Basin	River	Division
BARABANKI	Ganga	Ghagra	Middle Ganga Division-I(MGD-I), Lucknow

Forecasted Water Level Measured Water Level





Hydrograph view of - Turtipar



District	Basin	River	Division
BALLIA	Ganga	Ghagra	Middle Ganga Division-I(MGD-I), Lucknow

Forecasted Water Level Measured Water Level

