



Central Water Commission
Upper Ganga Basin Organisation, Lucknow
Daily Flood Situation Report Cum Advisories
Date: 28 July, 2020

FSR No.36

Dated 28-07-2020

1. Weather forecast by IMD

I. SYNOPTIC SITUATION:

- The monsoon trough at mean sea level continues to run close to the foothills of Himalayas.
- Yesterday's Western Disturbance as a cyclonic circulation over north Pakistan & neighbourhood extending upto 2.1 km above mean sea level has become less marked.
- The north-south trough from Bihar to north coastal Odisha persists and now extends upto 1.5 km above mean sea level.
- A cyclonic circulation lies over southwest Rajasthan between 2.1 km & 3.1 km above mean sea level.
- A trough in westerlies runs from Jammu Division to Northeast Arabian Sea off Pakistan coast at 1.5 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	0.1-10	11-25	0.1-10
2	Bhagirathi	Bhagirathi	0.1-10	11-25	0.1-10
3	Ganga	Chhatnag to Mirzapur	11-25	0.1-10	0.1-10
		Narora to Phaphamau	0.1-10	11-25	0.1-10
		Phaphamau to Ballia	11-25	11-25	11-25
		Gomti	11-25	11-25	11-25
		Sai	0.1-10	0.1-10	11-25
		Upper Ganga	11-25	11-25	0.1-10
4	Ghaghra	Lower Ghaghra	11-25	11-25	11-25
		Middle Ghaghra	11-25	11-25	11-25
		Upper Ghaghra	26-50	26-50	11-25
5	Ramganga	Ramganga	11-25	11-25	0.1-10

6	Rapti	Rapti	26-50	11-25	11-25
7.	Sharda	Sharda	11-25	11-25	11-25

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	L	SCT	M	WS	M	WS
2	Bhagirathi	Bhagirathi	L	SCT	M	WS	M	WS
3	Ganga	Chhatnag to Mirzapur	M	WS	L	FWS	L	FWS
		Narora to Phaphamau	L	SCT	L	SCT	L	SCT
		Phaphamau to Ballia	M	WS	M	WS	M	WS
		Gomti	M	WS	M	WS	M	WS
		Sai	L	SCT	M	FWS	M	FWS
		Upper Ganga	M	WS	M	WS	M	FWS
4	Ghaghra	Lower Ghaghra	M	WS	M	WS	M	WS
		Middle Ghaghra	M	WS	M	WS	M	WS
		Upper Ghaghra	M	WS	M	WS	M	WS
5	Ramganga	Ramganga	M	WS	M	WS	L	FWS
6	Rapti	Rapti	M	WS	M	WS	M	WS
7.	Sharda	Sharda	M	WS	M	WS	M	WS

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		
Bhagirathi	Bhagirathi			H	ISOL		
Ganga	Chhatnag to Mirzapur						
	Narora to Phaphamau						
	Phaphamau to Ballia	VH	ISOL	H	ISOL	H	ISOL
	Gomti						
	Sai						
	Upper Ganga	H	ISOL	VH	ISOL		
Ghaghra	Lower Ghaghra	H	ISOL	VH	ISOL	H	ISOL
	Middle Ghaghra	H	ISOL	VH	ISOL	H	ISOL
	Upper Ghaghra	H	ISOL	VH	ISOL		
Ramganga	Ramganga						
Rapti	Rapti	VH	ISOL	VH	ISOL	H	ISOL
Sharda	Sharda	VH	ISOL	VH	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

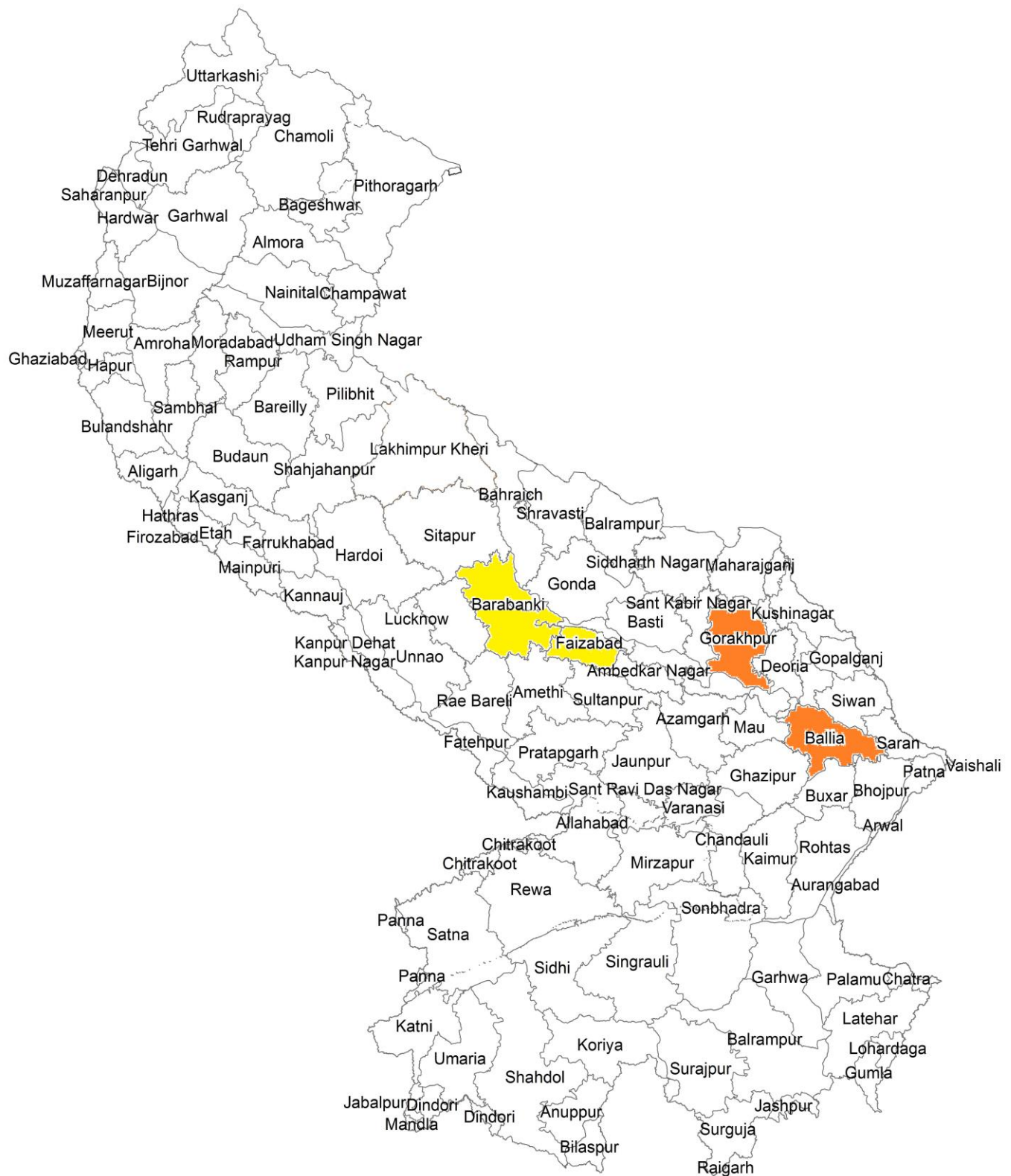
Intensity of Rainfall					
M.Dry	NIL	0 cm	VL	Very Light Rainfall	Trace
L	Light Rainfall	Upto 1 cm	M	Moderate rainfall	02-06 cm
H	Heavy rainfall	07-11 cm	VH	Very Heavy rainfall	12-20 cm
EH	Extremely Heavy rainfall	21 cm or More			
ExH	Exceptionally Heavy Rainfall	When the amount is a value near about 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		75-100	5-25						75-100	5-25				75-100				
2	Bhagirathi	Bhagirathi		75-100	5-25						75-100	5-25				75-100				
3	Ganga	Chhatnag to Mirzapur		25-50	50-75					75-100						75-100				
		Narora to Phaphamau		75-100						25-50	50-75					75-100				
		Phaphamau to Ballia			50-75	25-50				25-50	50-75					25-50	50-75			
		Gomti		5-25	75-100					25-50	50-75					25-50	50-75			
		Sai		75-100	5-25					75-100	5-25					25-50	50-75			
		Upper Ganga		25-50	50-75					25-50	50-75					75-100	5-25			
4	Ghaghra	Lower Ghaghra			75-100	5-25					50-75	25-50				25-50	50-75			
		Middle Ghaghra			75-100	5-25					50-75	25-50				25-50	50-75			
		Upper Ghaghra			25-50	50-75					25-50	50-75				25-50	50-75			
5	Ramganga	Ramganga		5-25	75-100					5-25	75-100					75-100				
6	Rapti	Rapti			25-50	50-75					50-75	25-50					50-75	25-50		
7.	Sharda	Sharda			50-75	25-50					50-75	25-50					50-75	25-50		

Probability of occurrence (%)	0-5	5-25	25-50	50-75	75-100
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Flood Situation on 28 JULY, 2020



1. River Sarda at Paliakalan in KHERI district of Uttar Pradesh continues to flow in SEVERE SITUATION at 14:00 hrs today. At 14:00 hrs, it was flowing at a level of 154.22 m with Steady trend which is 0.12 m above its Danger Level of 154.1 m and 1.1 m below its previous HFL of 155.32 m (2014-07-21).
2. River Rohin at Trimohinighat in MAHRAJGANJ district of Uttar Pradesh continues to flow in SEVERE SITUATION at 14:00 hrs. today. At 14:00 hrs., it was flowing at a level of 82.94m with steady trend which is 0.50 m above its Danger Level of 82.44 m and 2.54 m below its previous HFL of 85.48 m (2017-08-15).
3. River Ghagra at Turtipar in BALLIA district of Uttar Pradesh continues to flow in SEVERE SITUATION at 14:00 hrs today. At 14:00 hrs, it was flowing at a level of 64.17m with Raising trend which is 0.16m above its Danger Level of 64.01 m and 1.83 m below its previous HFL of 66.0 m (1998-08-28).
4. River Rapti at Birdghat in GORAKHPUR district of Uttar Pradesh continues to flow in SEVERE SITUATION at 14:00 hrs today. At 14:00 hrs, it was flowing at a level of 75.9 m with Falling trend which is 0.92 m above its Danger Level of 74.98 m and 1.64m below its previous HFL of 77.54 m (1998-08-23).

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)
Jaunpur (U.P)	54.0
Gola Bazar (U.P)	60.2
Birdghat (U.P)	80.4
Hetimpur (U.P)	96.4
Haridwar (U.K)	117.2
Bangapani (U.K)	161.8
Valmiki Nagar (B.R)	103.4
Chisapani (Nepal)	148.4

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	Ayodhya	Faizabad	U.P	92.73	91.73	94.01	2009	92.39	0800	S	92.30	29.07.20	0800	F
Ghaghra	Elgin Bridge	Barabanki	U.P.	106.07	105.07	107.616	2014	106.066	0800	F	106.00	29.07.20	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
Rapti	Birdghat	Gorakhpur	U.P	74.98	73.98	77.54	1998	75.94	0800	R	75.82	29.07.20	0800	F
Ghaghra	Turtipar	Baliya	U.P	64.01	63.01	66.00	1998	64.17	0800	S	64.10	29.07.20	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 is in this situation Dated 28.07.2020

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 is in this situation Dated 28.07.2020

Advisory on Hydro Meteorological Situation Expected from 29-07-2020 to 30-07-2020

As per rainfall pattern given in section II, Alaknanda, Bhagirathi, Ganga rivers are expected to receive moderate to heavy rain at scattered to widespread areas in next 48 hrs. Ghaghra Ramganga, Sharda & Rapti river basin are expected to receive moderate to very heavy rain at isolated to widespread places in next 48 hours. Water level at most of CWC stations are expected to steady/raise in next 48 hours. Level forecast will be issued if the level of river at stations are likely to touch or cross warning level. From the given QPF, above normal flood like situation is expected in most of river basins.

अधिशसीअभियंता

मध्य गंगा मण्डल -1 लखनऊ

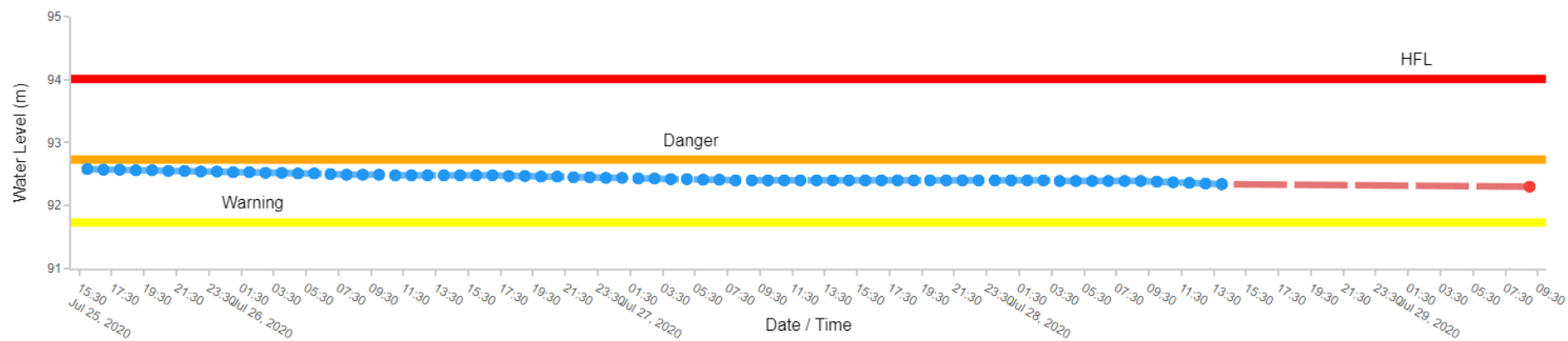


Hydrograph view of - Ayodhya



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

Forecasted Water Level Measured Water Level



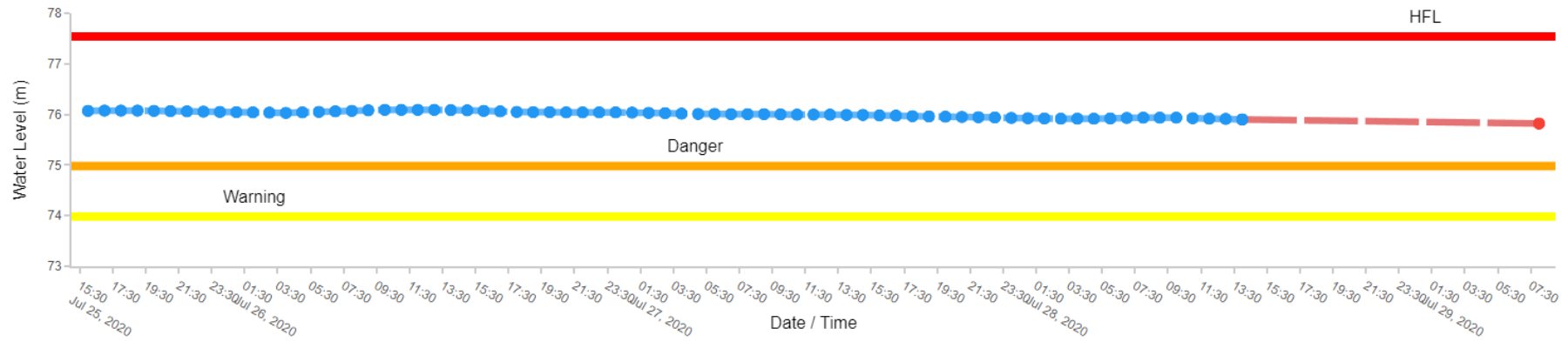


Hydrograph view of - Birdghat



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

Forecasted Water Level Measured Water Level



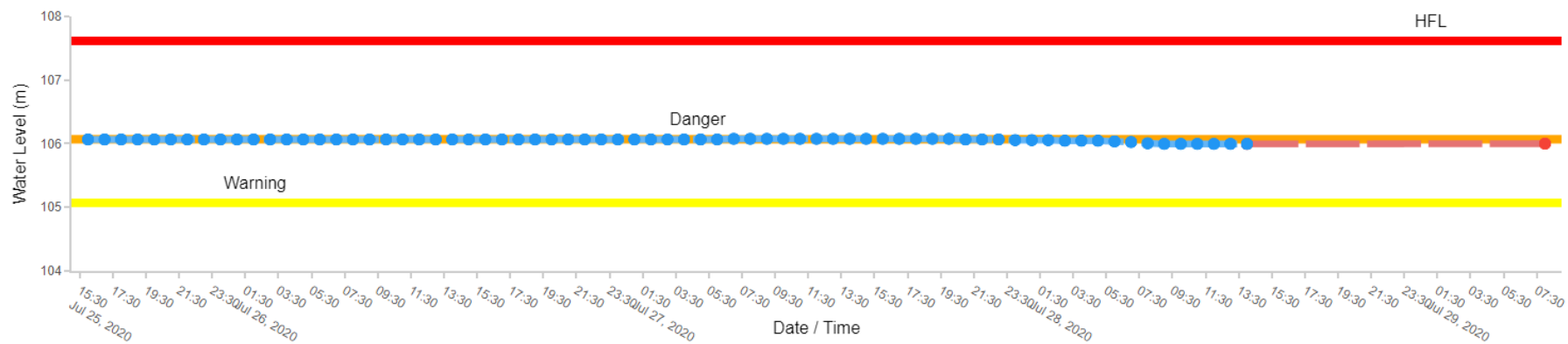


Hydrograph view of - Elginbridge



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

