



Central Water Commission
Upper Ganga Basin Organisation, Lucknow
Daily Flood Situation Report Cum Advisories
Date: 27 July, 2020

FSR No.35

Dated 27-07-2020

1. Weather forecast by IMD

I. SYNOPTIC SITUATION:

- The monsoon trough at mean sea level continues to run close to the foothills of Himalayas.
- ♦ The Western Disturbance as a cyclonic circulation over north Pakistan & neighbourhood extending upto 2.1 km above mean sea level persists. The trough from the above Western Disturbance to disturbance to Eastcentral Arabian Sea off Konkan coast has become less marked..
- ♦ The cyclonic circulation over Eastcentral Arabian Sea off Konkan coast has become less marked. The trough from the above system to southeast Uttar Pradesh has also become less marked.

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	0.1-10	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	0.1-10
		Phaphamau to Ballia	0.1-10	0.1-10	11-25
		Gomti	0.1-10	0.1-10	11-25
		Sai	0.1-10	0.1-10	0.1-10
		Upper Ganga	0.1-10	11-25	26-50
4	Ghaghra	Lower Ghaghra	11-25	11-25	11-25
		Middle Ghaghra	11-25	11-25	11-25
		Upper Ghaghra	11-25	11-25	26-50
5	Ramganga	Ramganga	0.1-10	11-25	11-25
6	Rapti	Rapti	0.1-10	11-25	11-25
7.	Sharda	Sharda	0.1-10	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	L	SCT	L	SCT	M	FWS
2	Bhagirathi	Bhagirathi	L	SCT	L	SCT	M	FWS
3	Ganga	Chhatnag to Mirzapur	VL	ISOL	L	SCT	L	SCT
		Narora to Phaphamau	VL	ISOL	L	ISOL	M	WS
		Phaphamau to Ballia	VL	ISOL	M	FWS	M	WS
		Gomti	VL	ISOL	L	SCT	M	FWS
		Sai	VL	ISOL	L	SCT	M	FWS
		Upper Ganga	L	SCT	M	SCT	M	WS
4	Ghaghra	Lower Ghaghra	L	SCT	M	WS	M	WS
		Middle Ghaghra	L	SCT	M	WS	M	WS
		Upper Ghaghra	M	SCT	M	WS	M	WS
5	Ramganga	Ramganga	M	ISOL	M	FWS	M	WS
6	Rapti	Rapti	M	SCT	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					H	ISOL
	Gomti						
	Sai						
	Upper Ganga					H	ISOL
Ghaghra	Lower Ghaghra			H	ISOL	H	ISOL
	Middle Ghaghra			H	ISOL	H	ISOL
	Upper Ghaghra			H	ISOL	H	ISOL
Ramganga	Ramganga			H	ISOL	H	ISOL
Rapti	Rapti	H	ISOL	H	ISOL	H	ISOL
Sharda	Sharda	H	ISOL	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					
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			

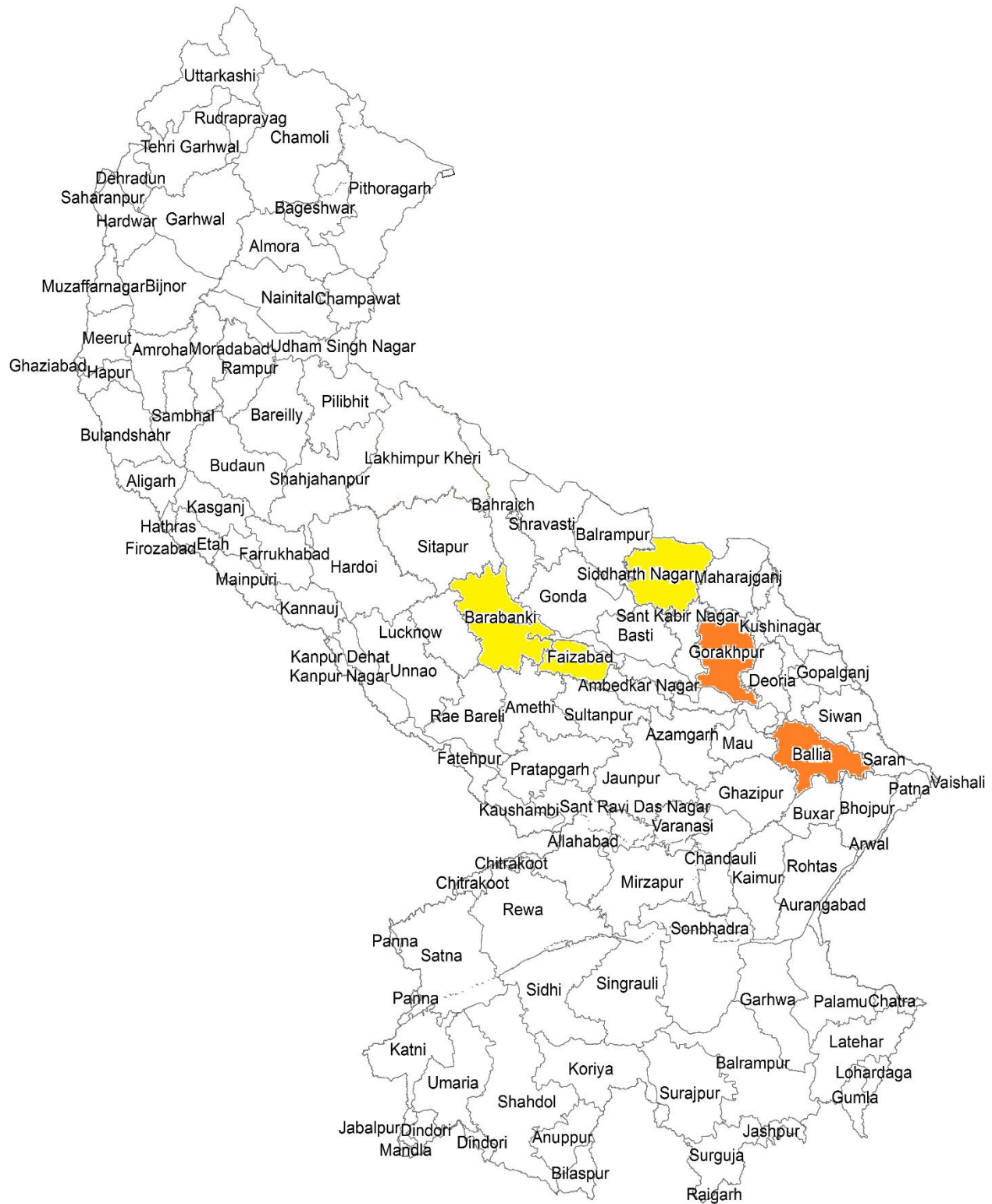
IV. PROBABILISTIC FORECAST

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						75-100						25-50	50-75			
2	Bhagirathi	Bhagirathi		75-100						75-100						25-50	50-75			
3	Ganga	Chhatnag to Mirzapur		75-100						75-100						75-100				
		Narora to Phaphamau		75-100						75-100						75-100	5-25			
		Phaphamau to Ballia		75-100						75-100						25-50	50-75			
		Gomti		75-100						75-100						25-50	50-75			
		Sai		75-100						75-100						25-50	50-75			
		Upper Ganga		75-100						25-50	50-75					75-100				
4	Ghaghra	Lower Ghaghra		25-50	50-75					25-50	50-75						25-50	50-75		
		Middle Ghaghra		25-50	50-75					25-50	50-75					25-50	50-75			
		Upper Ghaghra		25-50	50-75					25-50	50-75					25-50	50-75			
5	Ramganga	Ramganga		75-100						25-50	50-75					25-50	50-75			
6	Rapti	Rapti		75-100						25-50	50-75					25-50	50-75			
7	Sharda	Sharda		75-100						25-50	50-75						25-50	50-75		

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 27 JULY, 2020



1. 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 82.42m with Falling trend which is 0.02 m above its Danger Level of 82.44 m and 3.06 m below its previous HFL of 85.48 m (2017-08-15).
2. River Ghagra at Elginbridge in BARABANKI 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 106.076 m with Steady trend which is 0.01 m above its Danger Level of 106.07 m and 1.54 m below its previous HFL of 107.616 m (2014-08-18).
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 64.25m with Falling trend which is 0.24 m above its Danger Level of 64.01 m and 1.75 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 75.99 m with Falling trend which is 1.01 m above its Danger Level of 74.98 m and 1.55 m 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)
Banbasa Barrage (U.K)	57.0
Banbasa (U.K)	57.6
Bangapani (U.K)	152.6

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)	3
Total Numbers of Sites above Warning Level (A+B+C)		5
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
Rapti	Bansi	Siddharth nagar	U.P	84.9	83.9	85.88	2017	84.21	0800	F	83.95	28.07.20	0800	F
Ghaghra	Ayodhya	Faizabad	U.P	92.73	91.73	94.01	2009	92.40	0800	F	92.25	28.07.20	0800	F
Ghaghra	Elgin Bridge	Barabanki	U.P.	106.07	105.07	107.616	2014	106.076	0800	S	105.95	28.07. 20	0800	F

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	76.005	0800	S	75.80	28.07.20	0800	F
Ghaghra	Turtipar	Baliya	U.P	64.01	63.01	66.00	1998	64.30	0800	F	64.10	28.07.20	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 27.07.2020

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 27.07.2020

Advisory on Hydro Meteorological Situation Expected from 28-07-2020 to 29-07-2020

As per rainfall pattern given in section II, Alaknanda, Bhagirathi rivers are expected to receive light rain at scattered Ganga river is expected to receive very light to light rain at isolated areas in next 48 hrs. Ghaghra Ramganga, Sharda & Rapti river basin are expected to receive moderate to heavy rain at isolated to widespread places in next 48 hours. Water level at most of CWC stations are expected to fall / steady 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 not expected in most of river basins.

अधिशालीअभियंता

मध्य गंगा मण्डल -1 लखनऊ

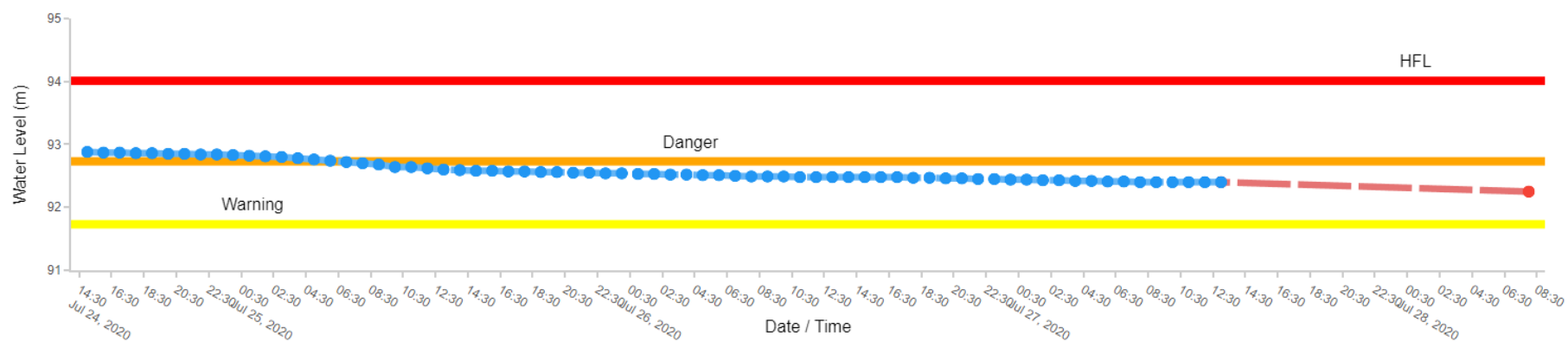


Hydrograph view of - Ayodhya



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

Forecasted Water Level Measured Water Level



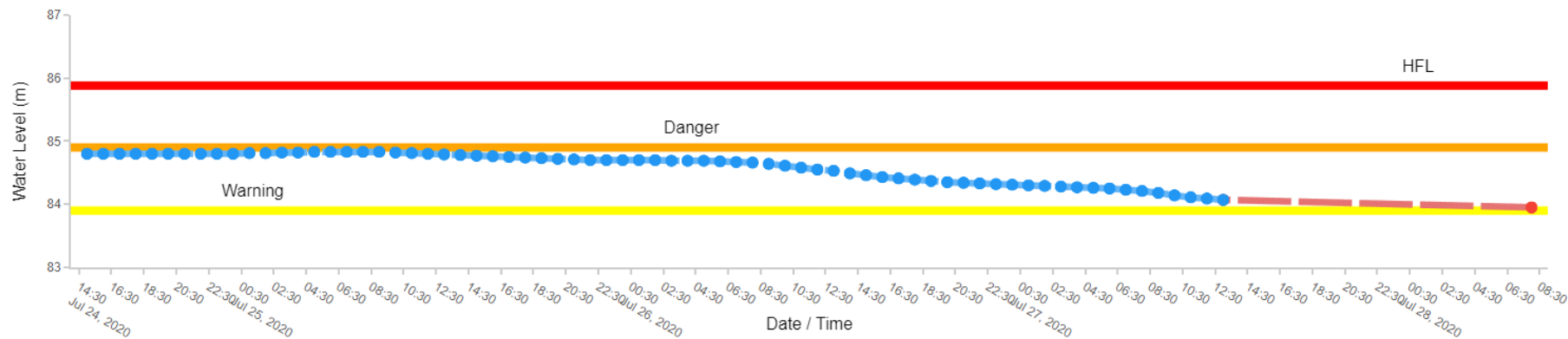


Hydrograph view of - Bansi



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

Forecasted Water Level Measured Water Level



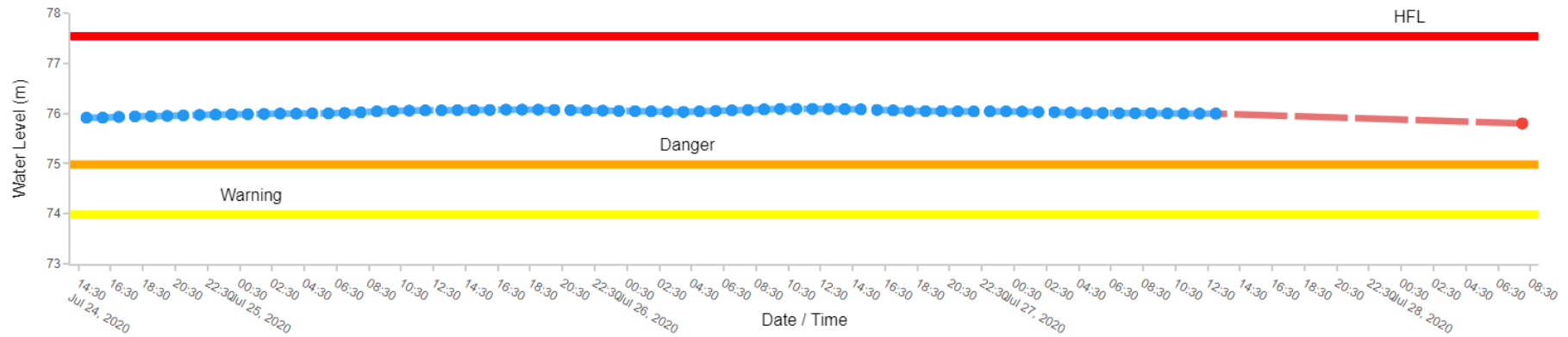


Hydrograph view of - Birdghat



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

Forecasted Water Level Measured Water Level



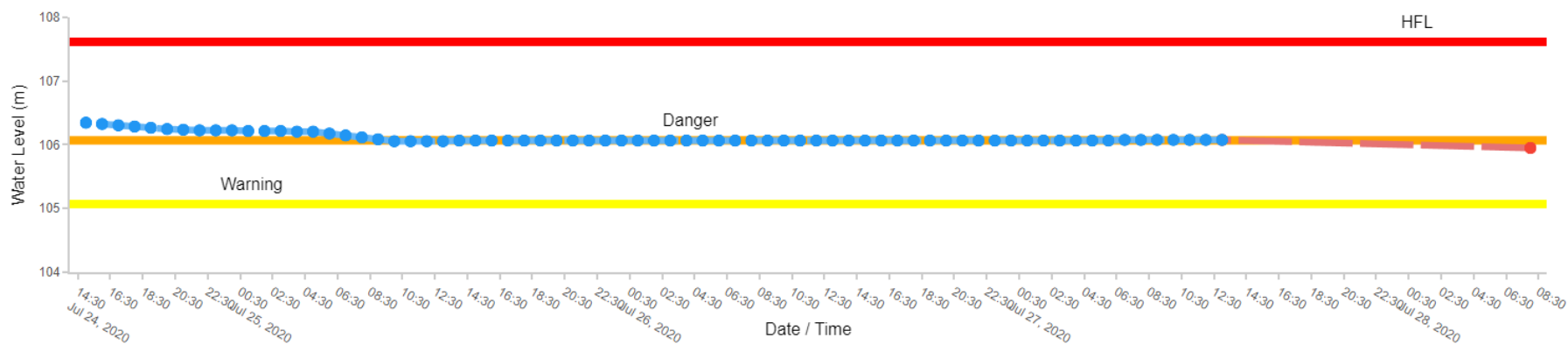


Hydrograph view of - Elginbridge



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

