



Central Water Commission
Upper Ganga Basin Organisation, Lucknow
Daily Flood Situation Report Cum Advisories
Date: 20 July, 2020

FSR No.28

Dated 20-07-2020

1. Weather forecast by IMD

I. SYNOPTIC SITUATION:

- The monsoon trough at mean sea level now passes through Amritsar, Ludhiana, Meerut, Bareilly. Gorakhpur, Bhagalpur and eastern end lies close to the foothills of Himalayas .
- The cyclonic circulation over southwest Rajasthan & neighbourhood persists and seen at 3.6 km above mean sea level.
- The trough in mid-tropospheric westerlies with its axis at 7.6 km above mean sea level now runs roughly along Long.70°E to the north of Lat. 32°N.
- The cyclonic circulation over central Pakistan & neighbourhood merged with heat low.

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	0.1-10
2	Bhagirathi	Bhagirathi	0.1-10	0.1-10	0.1-10
3	Ganga	Chhatnag to Mirzapur	0.1-10	0.1-10	0.1-10
		Narora to Phaphamau	11-25	0.1-10	0.1-10
		Phaphamau to Ballia	0.1-10	0.1-10	0.1-10
		Gomti	0.1-10	11-25	0.1-10
		Sai	0.1-10	0.1-10	0.1-10
		Upper Ganga	11-25	0.1-10	0.1-10
4	Ghaghra	Lower Ghaghra	11-25	11-25	0.1-10
		Middle Ghaghra	11-25	0.1-10	0.1-10
		Upper Ghaghra	11-25	0.1-10	0.1-10
5	Ramganga	Ramganga	11-25	0.1-10	0.1-10
6	Rapti	Rapti	11-25	11-25	0.1-10

7.	Sharda	Sharda	11-25	0.1-10	0.1-10
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II (b) DETERMINISTIC FORECAST (DISTRIBUTION)

Sr. No.	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	FWS	M	FWS	M	SCT
2	Bhagirathi	Bhagirathi	M	FWS	M	FWS	M	SCT
3	Ganga	Chhatnag to Mirzapur	M	FWS	M	FWS	L	SCT
		Narora to Phaphamau	M	WS	M	FWS	L	SCT
		Phaphamau to Ballia	M	FWS	M	FWS	M	FWS
		Gomti	M	FWS	M	WS	L	SCT
		Sai	M	FWS	M	WS	L	SCT
		Upper Ganga	M	WS	M	WS	M	FWS
4	Ghaghra	Lower Ghaghra	M	WS	M	WS	M	FWS
		Middle Ghaghra	M	WS	M	WS	M	WS
		Upper Ghaghra	M	WS	M	WS	M	WS
5	Ramganga	Ramganga	M	WS	M	WS	M	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						
Bhagirathi	Bhagirathi						
Ganga	Chhatnag to Mirzapur						
	Narora to Phaphamau						
	Phaphamau to Ballia	H		H		H	
	Gomti			H			
	Sai						
	Upper Ganga	H	ISOL	H	ISOL		
Ghaghra	Lower Ghaghra	H	ISOL	H	ISOL		
	Middle Ghaghra	H	ISOL	H	ISOL	H	ISOL
	Upper Ghaghra	H	ISOL	H	ISOL		
Ramganga	Ramganga	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			

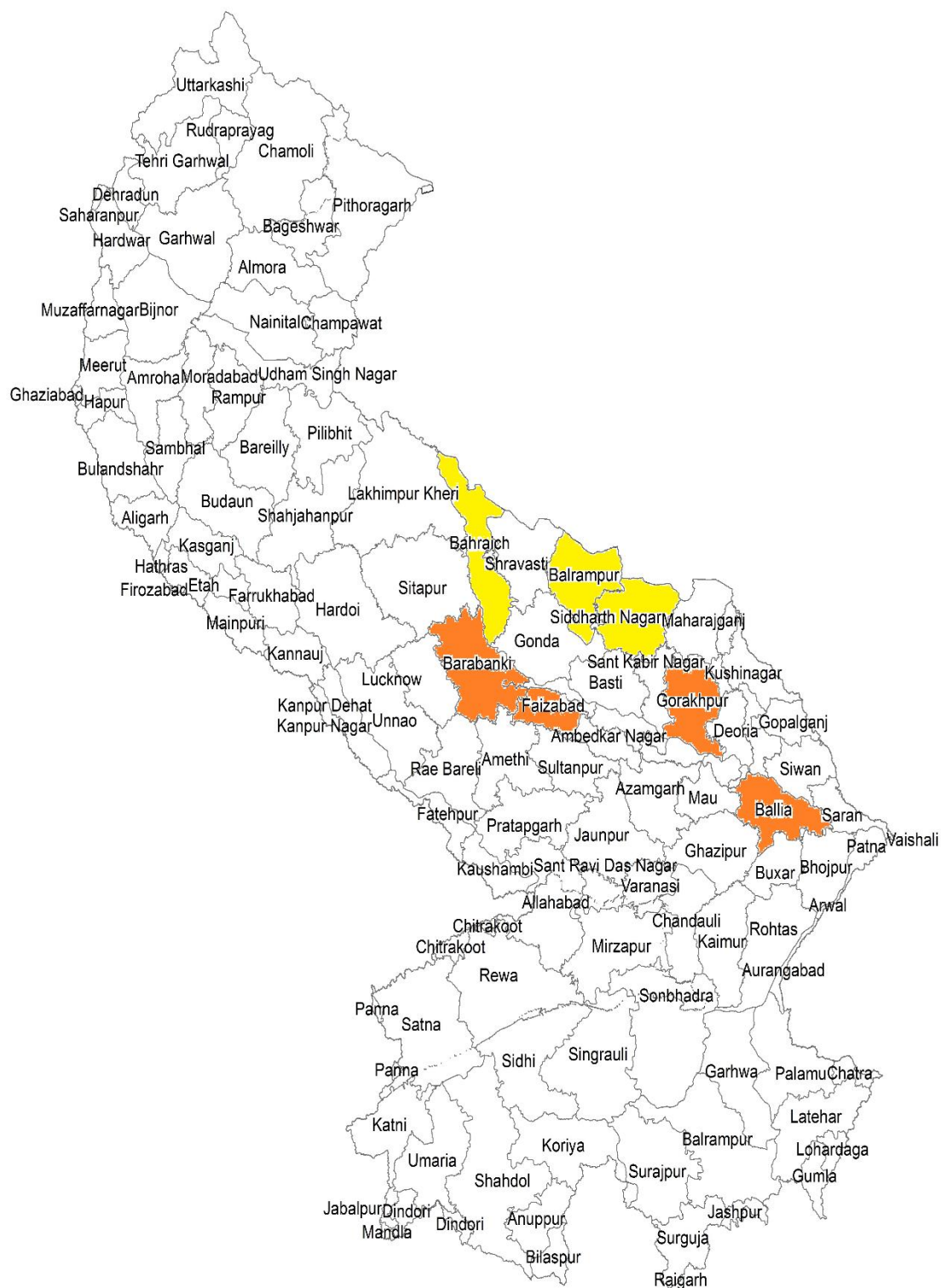
IV. PROBABILISTIC FORECAST

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

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 20 JULY, 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)
Jaunpur (U.P)	59.5
Motipur (U.P)	74.6
Chauhaanpatti (U.P)	166.4
Turtipar (U.P)	52.6
Birdghat (U.P)	54.4
Chandradeepghat (U.P)	106.0
Hetimpur (U.P)	90.8
Salempur (U.P)	58.0
Khadda (U.P)	60.6
Dumarighat (U.P)	91.2
Muhchurwaghat (U.P)	60.8
Gharighat (U.P)	49.0
Balmiki Nagar (B.R)	48.2
Bangapani (U.K)	99.8
Chisapani (Nepal)	65.6

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)	0
C.	Above Normal Flood Situation:	
	(Site (s) where water level touching or exceeding the warning Level but below Danger Level)	6
Total Numbers of Sites above Warning Level (A+B+C)		6
INFLOW FORECAST		
Number of Sites for which inflow forecasts issued:		1
(Where inflow are equal or exceed the specified Threshold Limit for a particular reservoir/ barrage)		1

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	Balrampur	Balrampur	U.P	104.62	103.62	105.54	2015	103.97	0800	S	103.85	21.07.20	0800	F
Rapti	Bansi	Siddharth nagar	U.P	84.9	83.9	85.88	2017	84.03	0800	R	84.42	21.07.20	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	106.426	0800	R	106.52	21.07. 20	0800	R
Rapti	Birdghat	Gorakhpur	U.P	74.98	73.98	77.54	1998	75.16	0800	S	75.32	21.07.20	0800	R
Ghaghra	Turtipar	Baliya	U.P	64.01	63.01	66.00	1998	64.02	0800	R	64.25	21.07.20	0800	R
Ghaghra	Ayodhya	Faizabad	U.P	92.73	91.73	94.01	2009	92.55	0800	R	92.92	21.07.20	0800	R

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

[illegible]

Note - No Station in this situation Dated 20.07.2020

2.6 Inflow Forecast

[illegible]

Advisory on Hydro Meteorological Situation Expected from 21-07-2020 to 22-07-2020

As per rainfall pattern given in section II, Alaknanda, Bhagirathi, Ganga rivers are expected to receive heavy rain at isolated area in next 48 hrs. Ghaghra Ramganga, Sharda & Rapti river basin received heavy 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.

अधिशालीअभियंता

मध्य गंगा मण्डल -1 लखनऊ

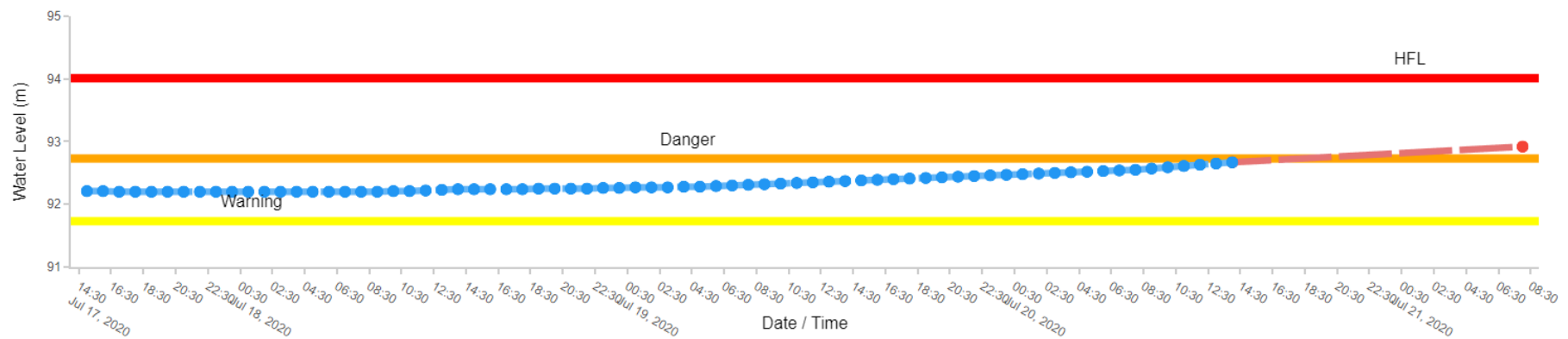


Hydrograph view of - Ayodhya



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

Forecasted Water Level Measured Water Level



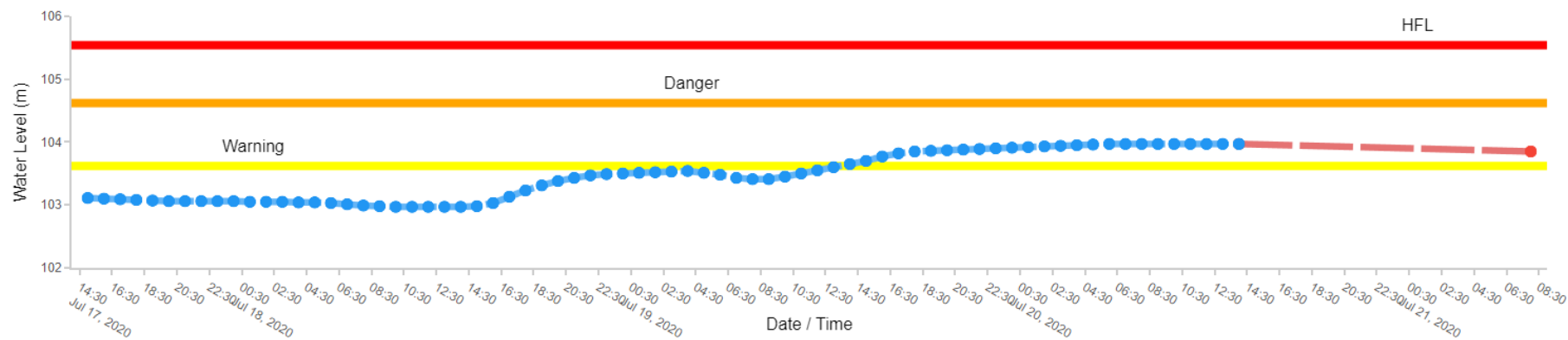


Hydrograph view of - Balrampur



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

Forecasted Water Level Measured Water Level



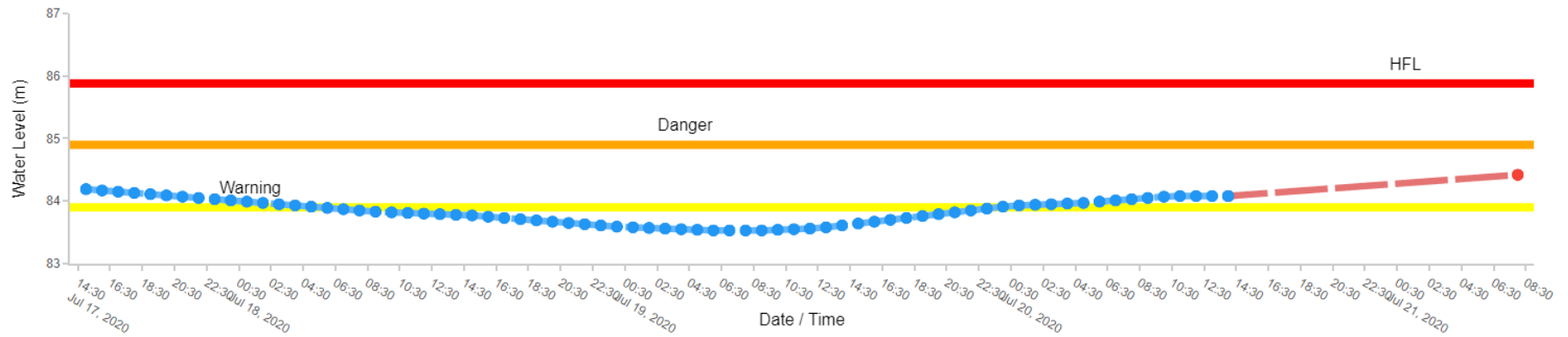


Hydrograph view of - Bansi



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

Forecasted Water Level Measured Water Level



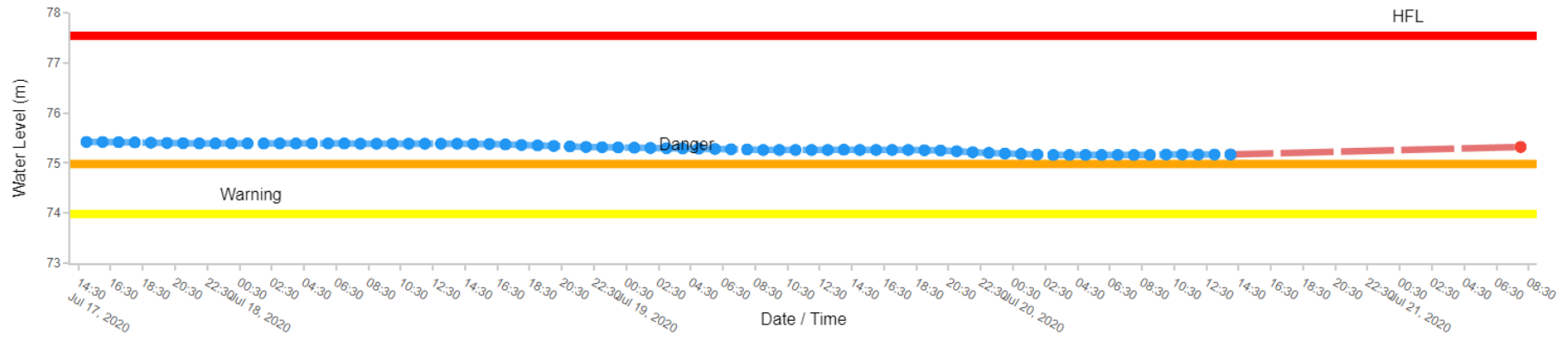


Hydrograph view of - Birdghat



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

Forecasted Water Level Measured Water Level





Current Flood Forecast

Site

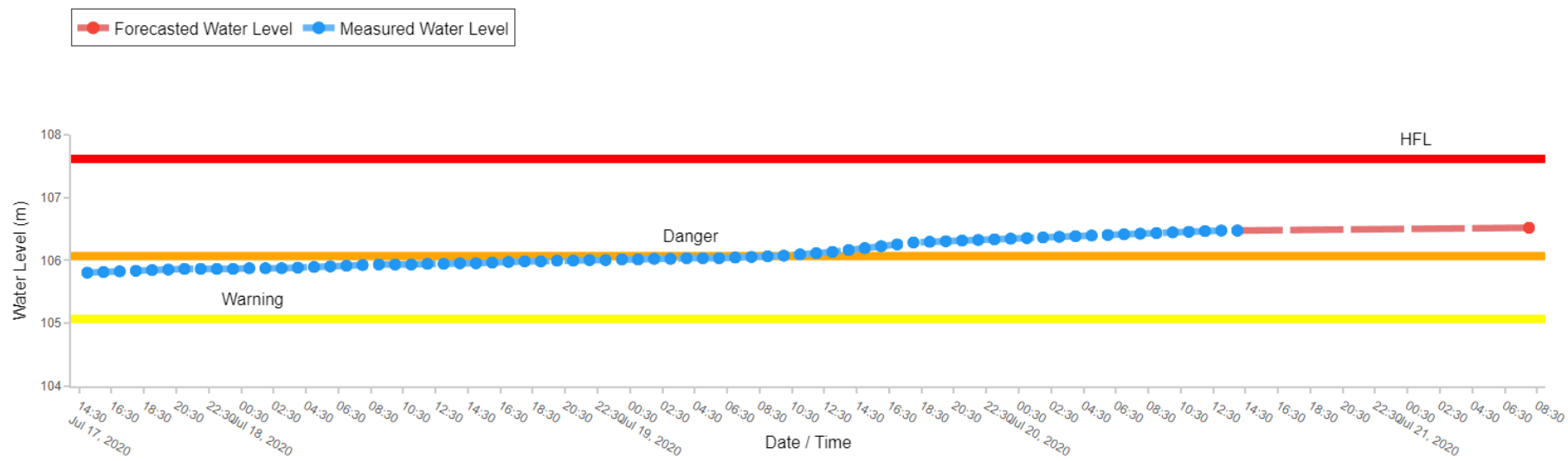
Hydrograph



Hydrograph view of - Elginbridge



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



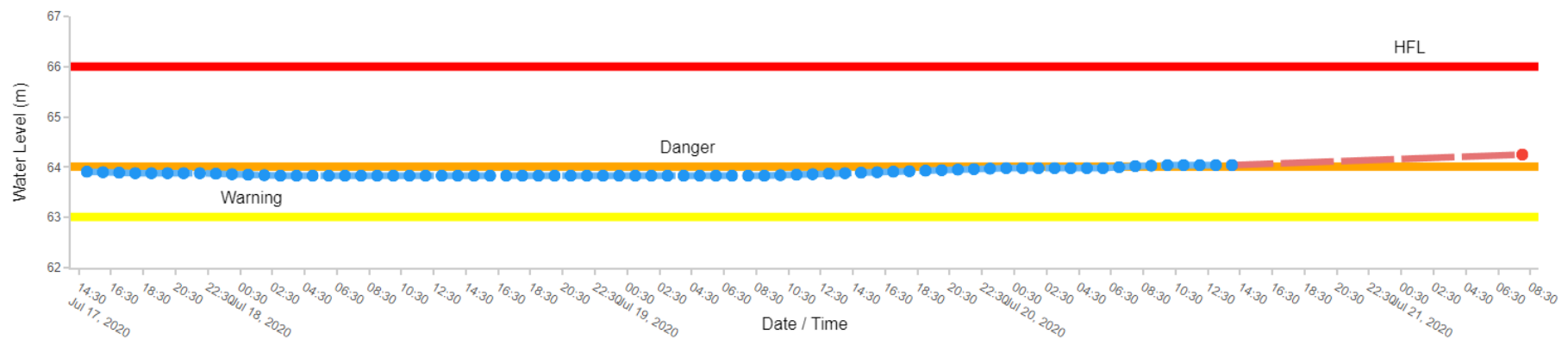


Hydrograph view of - Turtipar



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

Forecasted Water Level Measured Water Level





Hydrograph view of - Katarniaghat Barrage



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

