



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

FSR No.66

Dated 27-08-2020

1. Weather forecast by IMD

I. SYNOPTIC SITUATION:

- ♦ The Well-Marked Low Pressure Area over north interior Odisha & neighbourhood now lies over southwest Jharkhand & neighbourhood with the associated cyclonic circulation extending upto 7.6 km above mean level tilting southwestwards with height.
- ♦ The western end of the Monsoon Trough at mean sea level continues to run close to foothills of Himalayas and eastern end now passes through Bahraich, Varanasi, the centre of Well-Marked Low Pressure Area over southwest Jharkhand & neighbourhood, Digha and thence southeastwards to North Bay of Bengal.
- ♦ The cyclonic circulation over south Pakistan & neighbourhood now lies over southeast Pakistan & neighbourhood and extends between 3.1 & 5.8 km above mean sea level tilting southwestwards with height.
- ♦ The cyclonic circulation between 1.5 km and 2.1 km above mean sea level over northwest Rajasthan and adjoining areas of Haryana and Punjab has 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	11-25	11-25
2	Bhagirathi	Bhagirathi	0.1-10	0.1-10	0.1-10
3	Ganga	Chhatnag to Mirzapur	11-25	0.1-10	0.1-10
		Narora to Phaphamau	0.1-10	0.1-10	0.1-10
		Phaphamau to Ballia	11-25	0.1-10	0.1-10
		Gomti	0.1-10	0.1-10	0.1-10
		Sai	0.1-10	0.1-10	0.1-10
		Upper Ganga	0.1-10	11-25	0.1-10
4	Ghaghra	Lower Ghaghra	0.1-10	0.1-10	0.1-10
		Middle Ghaghra	0.1-10	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	0.1-10	0.1-10	0.1-10
7.	Sharda	Sharda	11-25	0.1-10	0.1-10

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

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

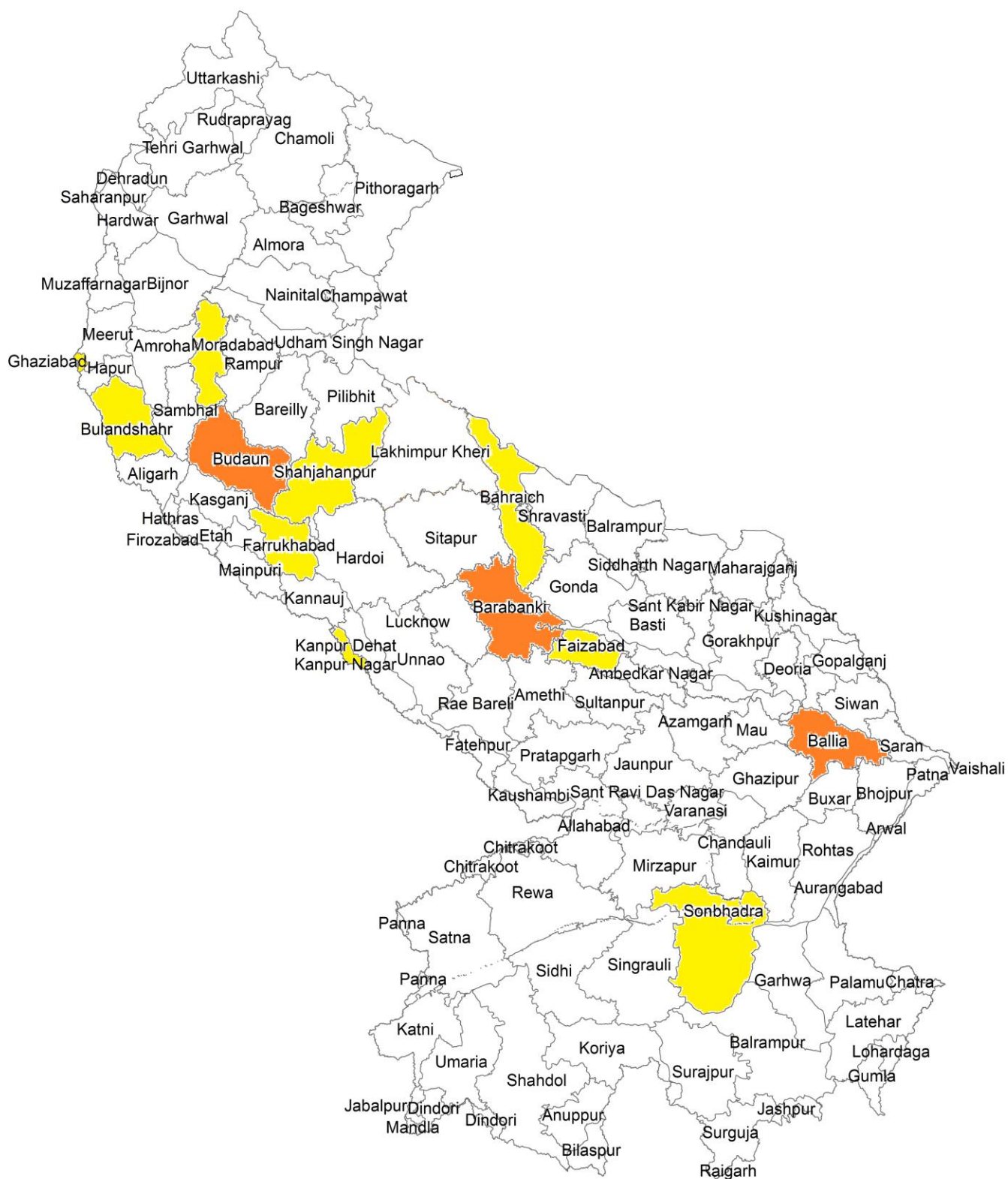
IV. PROBABILISTIC FORECAST

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		50-75	25-50					25-50	50-75					25-50	50-75			
2	Bhagirathi	Bhagirathi		75-100						75-100						75-100				
3	Ganga	Chhatnag to Mirzapur		25-50	50-75					75-100						75-100				
		Narora to Phaphamau		75-100						75-100						75-100				
		Phaphamau to Ballia		25-50	50-75					75-100						75-100				
		Gomti		75-100						75-100						75-100				
		Sai		75-100						75-100						75-100				
		Upper Ganga		75-100						25-50	50-75					75-100				
4	Ghaghra	Lower Ghaghra		75-100						75-100						75-100				
		Middle Ghaghra		75-100						75-100						75-100				
		Upper Ghaghra		25-50	50-75					75-100						75-100				
5	Ramganga	Ramganga		25-50	50-75					75-100						75-100				
6	Rapti	Rapti		75-100						75-100						75-100				
7.	Sharda	Sharda		25-50	50-75					75-100						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 27 AUGUST, 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 154.30m with steady trend which is 0.20m above its Danger Level of 154.10m and 1.02m below its previous HFL of 155.32 m (2014-07-21).
2. 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 64.29m with falling trend which is 0.28m above its Danger Level of 64.01 m and 1.71m below its previous HFL of 66.0 m (1998-08-28).
3. 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 106.086m with rising trend which is 0.016 m above its Danger Level of 106.07 m and 1.53m below its previous HFL of 107.616 m (2014-08-18).
4. River Ganga at Kachhlabridge in BUDAN district of Uttar Pradesh continues to flow in SEVERE SITUATION at 08:00 hrs today. At 08:00 hrs, it was flowing at a level of 162.19m with steady trend which is 0.19m above its Danger Level of 162.0 m and 0.m below its previous HFL of 162.79 m (2010-09-24).

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)
Mandala (R.J)	56.4
Bhinga (U.P)	98.2
Chandradeepghat (U.P)	69.0
Basti (U.P)	74.4
Sharda Nagar (U.P)	57.4

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)	03
C.	Above Normal Flood Situation:	
	(Site (s) where water level touching or exceeding the warning Level but below Danger Level)	07
Total Numbers of Sites above Warning Level (A+B+C)		10
INFLOW FORECAST		
Number of Sites for which inflow forecasts issued:		03
(Where inflow are equal or exceed the specified Threshold Limit for a particular reservoir/ barrage)		03

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
Ganga	Garhmukteshwar	Ghaziabad	U.P	199.33	198.33	199.9	2010	198.58	0800	R	198.70	28.08.20	0800	R
Ganga	Fatehgarh	Farukhabad	U.P	137.6	136.60	138.14	2010	137.53	0800	F	137.45	28.08.20	0800	F
Ganga	Ankinghat	Kanpur Dehat	U.P	124.0	123.0	124.49	2010	123.26	0800	R	123.30	28.08.20	0800	R
Ganga	Ballia	Ballia	U.P	57.615	56.615	60.39	2016	56.64	0800	R	56.88	28.08.20	0800	R
Ram Ganga	Moradabad	Moradabad	U.P	190.60	189.60	192.88	2010	190.09	0800	F	190.00	27.08.20	2000	F
Ram Ganga	Dabri	Shahjahanpur	U.P	137.30	136.30	139.695	1983	136.30	0800	R	136.40	28.08.20	0800	R
Ghaghra	Ayodhya	Faizabad	U.P	92.73	91.73	94.01	2009	92.67	0800	S	92.65	28.08.20	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
Ghaghra	Turtipar	Ballia	U.P	64.01	63.01	66.00	1998	64.35	0800	F	64.20	28.08.20	0800	F
Ganga	Kachhla bridge	Budaun	U.P	161.00	162.00	162.79	2010	162.19	0800	S	162.35	28.08.20	0800	R
Ghaghra	Elgin Bridge	Barabanki	U.P	106.07	105.07	107.616	2014	106.016	0800	R	106.20	28.08.20	0800	R

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 27.08.2020

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
Sharda	Narora Barrage	Bulandshahr	U.P					2988.60	0800	S	3681.60	28.08.20	0800	R
Rihand	Rihand Dam	Sonbhadra	U.P.		265.18				0800	R	1296.00	28.08.20	0800	R
Ghaghra	Katerniaghat	Bahraich	U.P.		138			3759.231	0800	R	3700.00	28.08. 20	0800	R

Advisory on Hydro Meteorological Situation Expected from 28-08-2020 to 29-08-2020

As per rainfall pattern given in section II, Alaknanda, Bhagirathi & Ganga rivers are expected to receive light to moderate rain at scattered areas in next 48 hrs. Ghaghra, Ramganga, Sharda & Rapti river basins are expected to receive light to moderate rain at scattered to widespread areas in next 48 hours. Water level at most of CWC stations are expected to 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 Ganga, Ghaghra, Rapti & Sharda river basins.

अधिशसीअभियंता

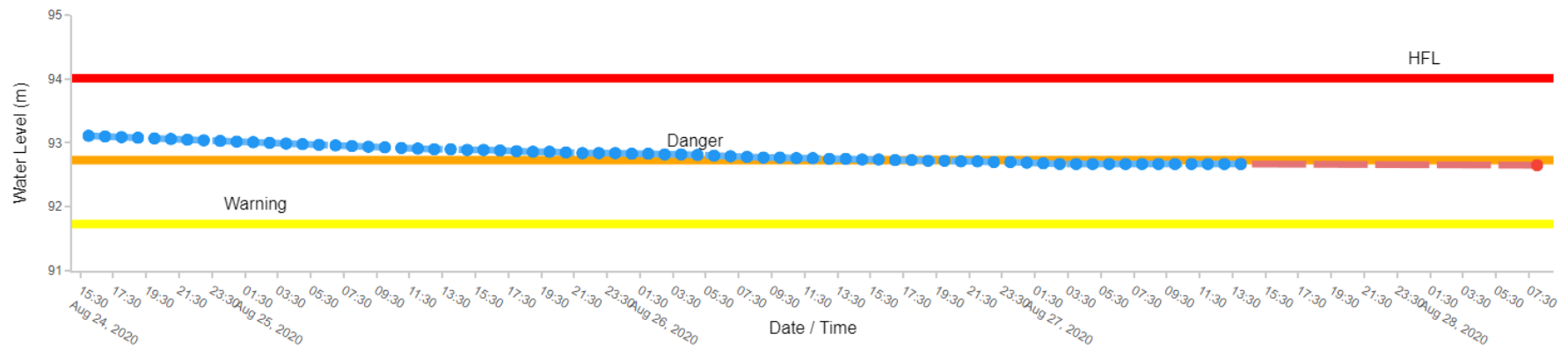
मध्य गंगा मण्डल -1 लखनऊ

Hydrograph view of - Ayodhya



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

● Forecasted Water Level
 ● Measured Water Level

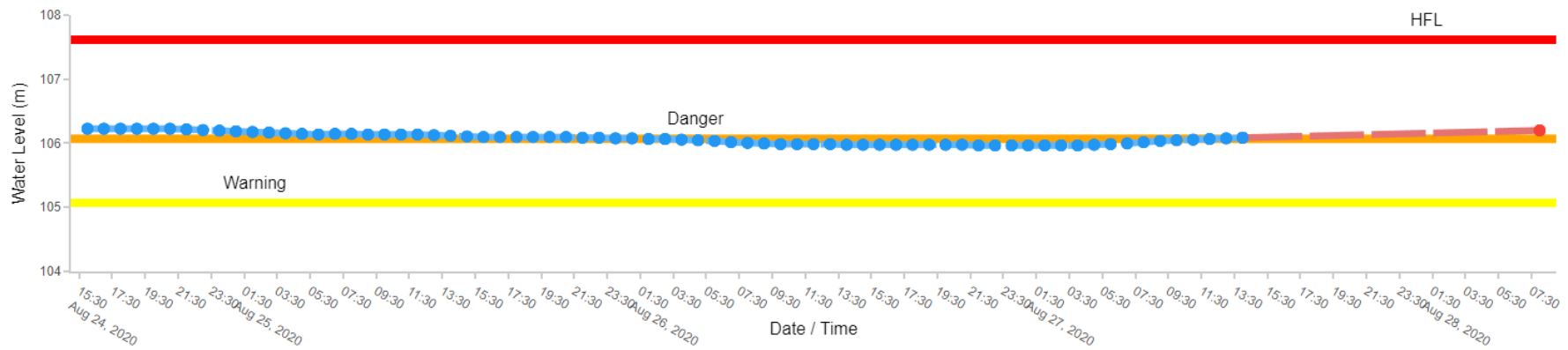


Hydrograph view of - Elginbridge



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

● Forecasted Water Level
 ● Measured Water Level

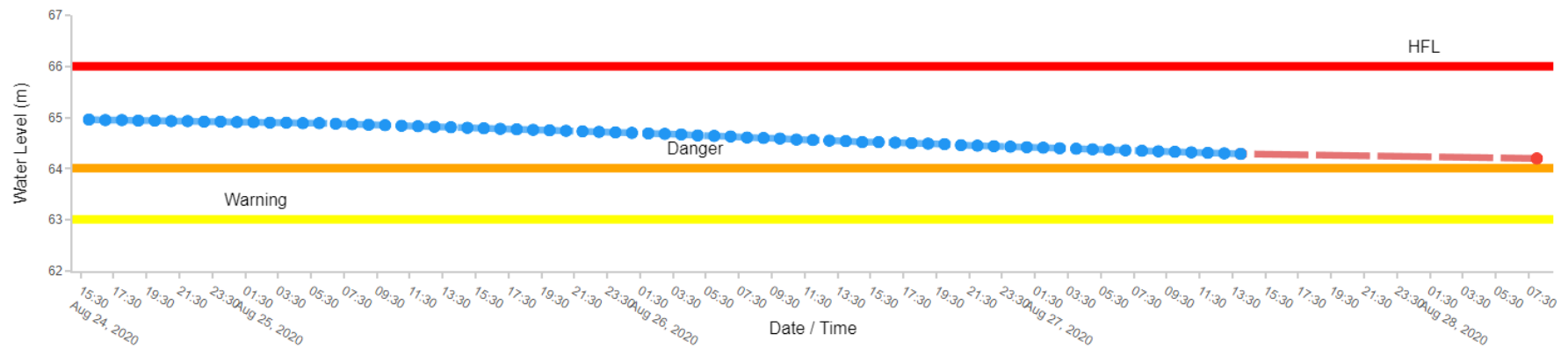


Hydrograph view of - Turtipar



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

● Forecasted Water Level
 ● Measured Water Level

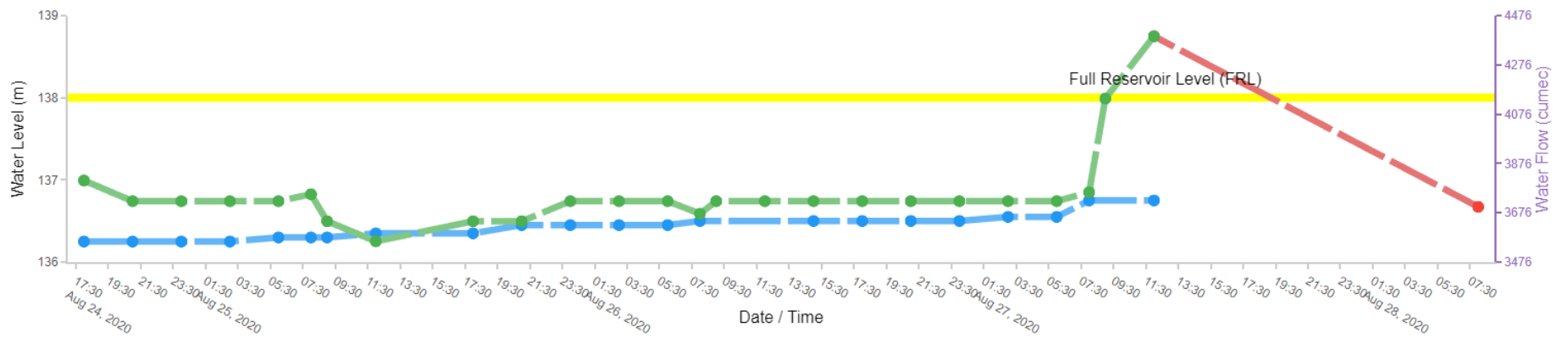


Hydrograph view of - Katerniaghat Barrage



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

Measured Water Level
Forecasted Water Flow
Inflow

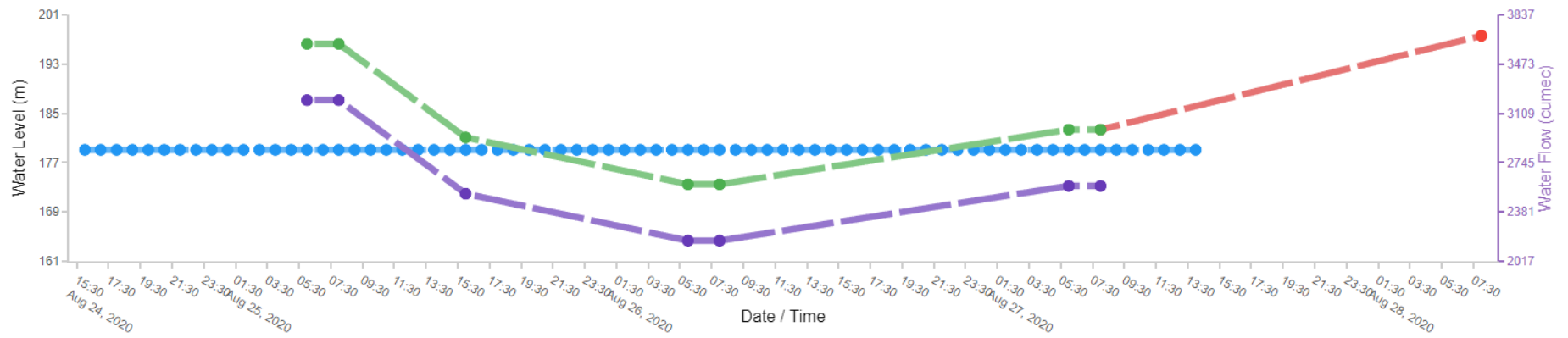


Hydrograph view of - NARORA Barrage



District	Basin	River	Division
BULANDSHAHR	Ganga	Ganga	Middle Ganga Division-II(MGD-II), Lucknow

Measured Water Level
Forecasted Water Flow
Inflow
Canal Outflow

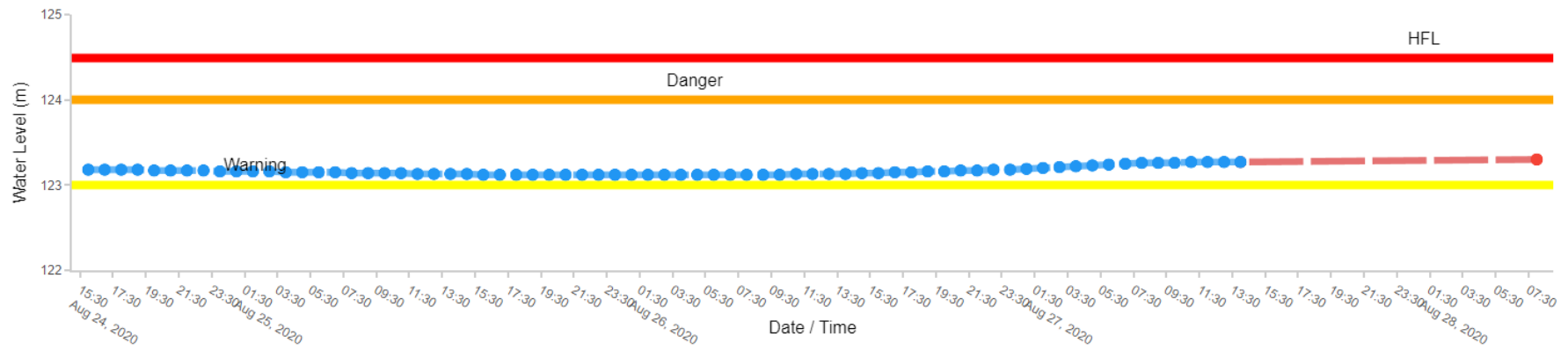


Hydrograph view of - Ankinghat



District	Basin	River	Division
KANPUR DEHAT	Ganga	Ganga	Middle Ganga Division-II(MGD-II), Lucknow

—●— Forecasted Water Level
 —●— Measured Water Level

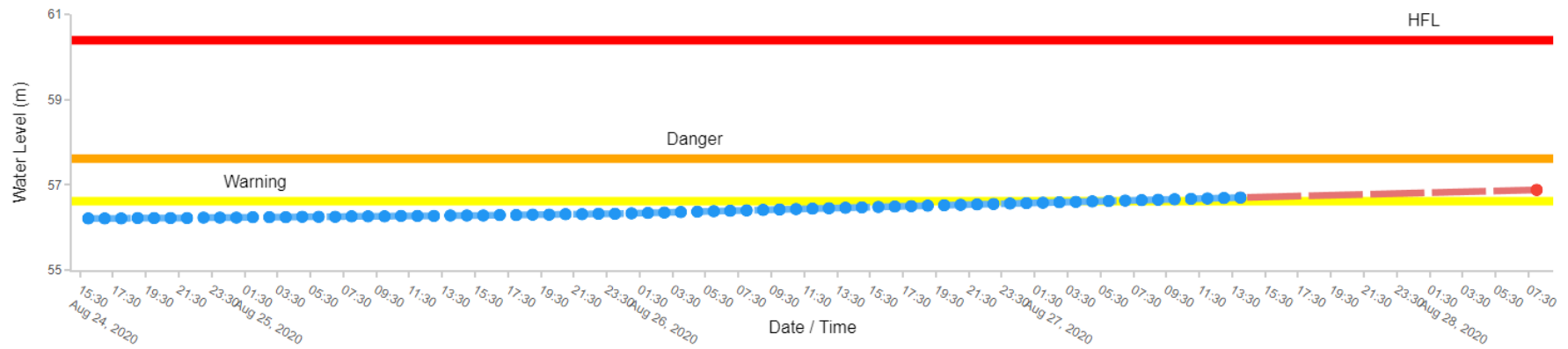


Hydrograph view of - BALLIA



District	Basin	River	Division
BALLIA	Ganga	Ganga	Middle Ganga Division-III(MGD-III), Varanasi

—●— Forecasted Water Level
 —●— Measured Water Level

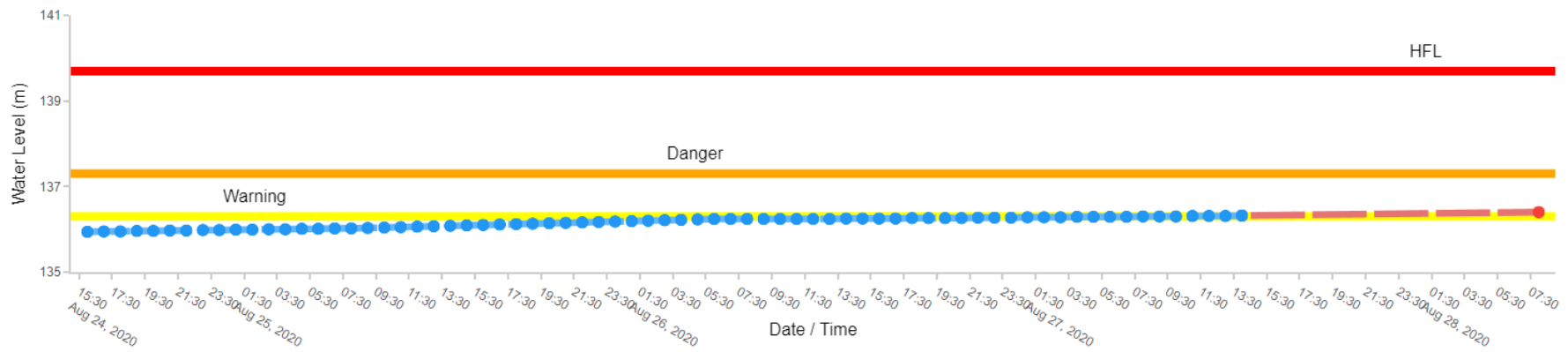


Hydrograph view of - Dabri



District	Basin	River	Division
SHAHJAHANPUR	Ganga	Ramganga	Middle Ganga Division-II(MGD-II), Lucknow

● Forecasted Water Level
 ● Measured Water Level

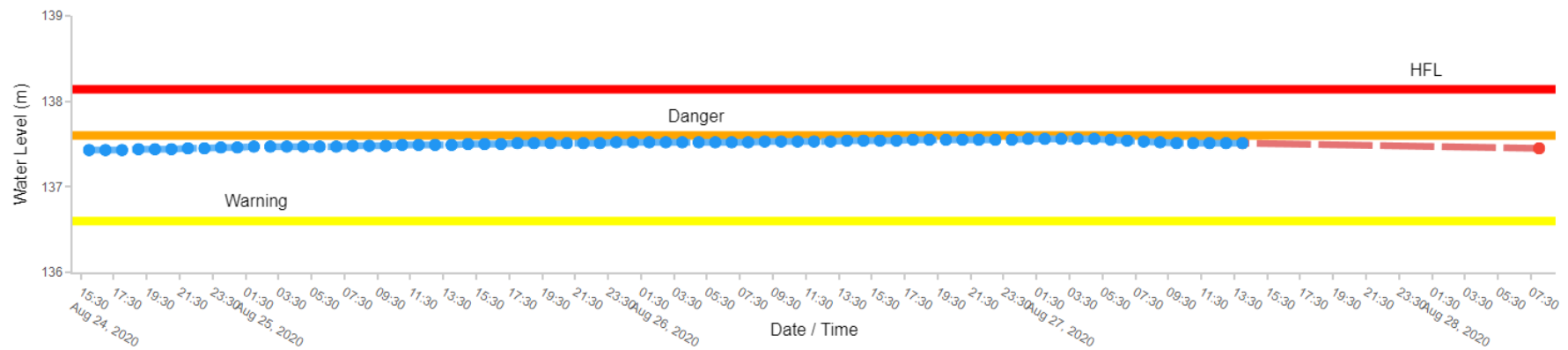


Hydrograph view of - Fatehgarh



District	Basin	River	Division
FARRUKHABAD	Ganga	Ganga	Middle Ganga Division-II(MGD-II), Lucknow

—●— Forecasted Water Level
 —●— Measured Water Level

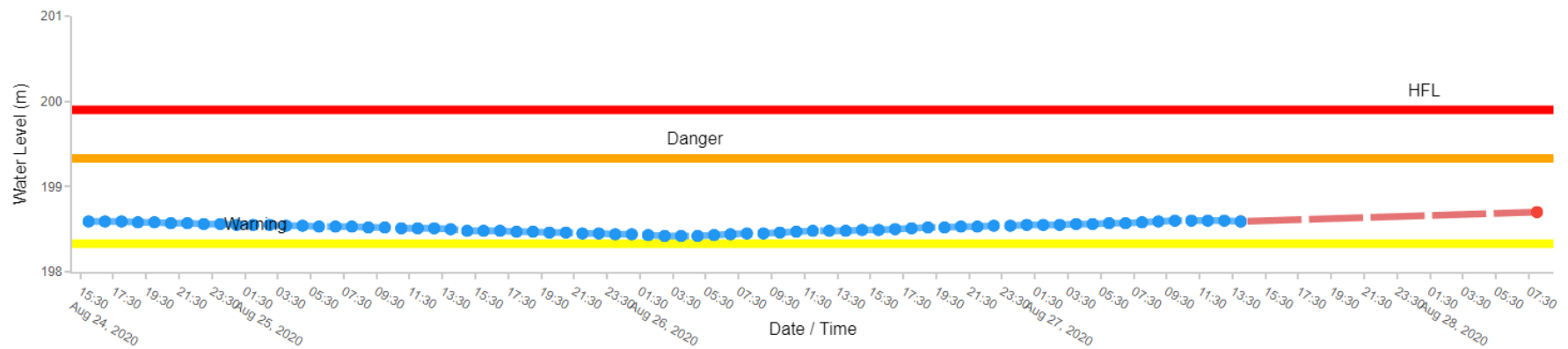


Hydrograph view of - Garhmukteshwar



District	Basin	River	Division
GHAZIABAD	Ganga	Ganga	Middle Ganga Division-II(MGD-II), Lucknow

● Forecasted Water Level
 ● Measured Water Level

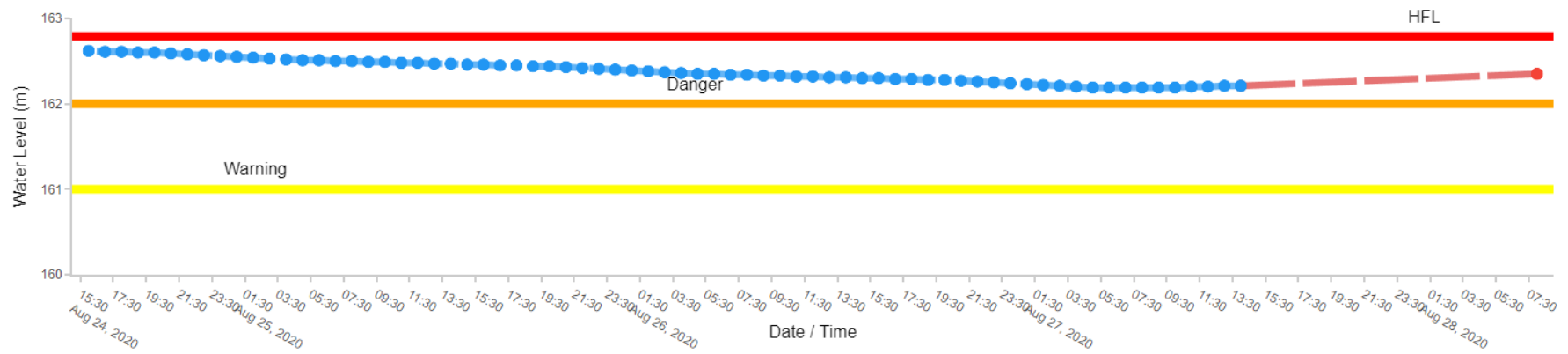


Hydrograph view of - Kachhlabridge



District	Basin	River	Division
BUDAUN	Ganga	Ganga	Middle Ganga Division-II(MGD-II), Lucknow

—●— Forecasted Water Level
 —●— Measured Water Level

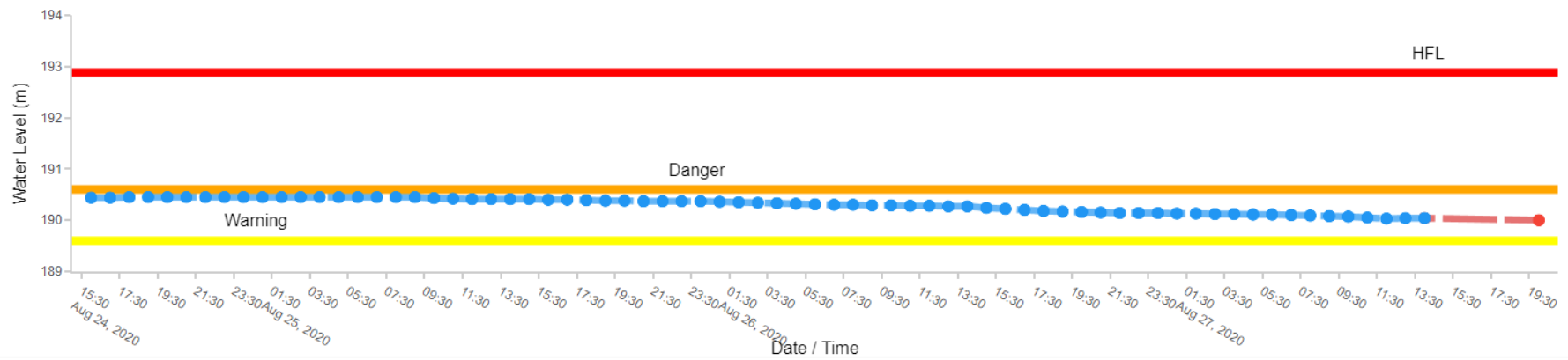


Hydrograph view of - Moradabad



District	Basin	River	Division
MORADABAD	Ganga	Ramganga	Middle Ganga Division-II(MGD-II), Lucknow

● Forecasted Water Level
 ● Measured Water Level



Hydrograph view of - RIHAND DAM



District	Basin	River	Division
VARANASI	Ganga	Rihand	Middle Ganga Division-III(MGD-III), Varanasi

Measured Water Level Forecasted Water Flow

