



Central Water Commission  
Upper Ganga Basin Organisation, Lucknow  
Daily Flood Situation Report Cum Advisories  
Date: 29 AUGUST, 2020

FSR No.68

Dated 29-08-2020

**1. Weather forecast by IMD**

**I. SYNOPTIC SITUATION:**

- ♦ The **Well Marked Low Pressure Area** over north Coastal Odisha & neighbourhood now lies over north interior Odisha & adjoining Jharkhand with associated cyclonic circulation extending upto 7.6 km above mean sea level tilting southwestwards with height. It is very likely to move nearly westwards across Chhattisgarh & Madhya Pradesh gradually during next 3-4 days.
- ♦ The **monsoon trough** at mean sea level now passes through Bikaner, Ajmer, Guna, Jabalpur, Pendra Road, centre of Well Marked Low Pressure area over north interior Odisha & adjoining Jharkhand and thence east-south eastwards to northeast Bay of Bengal and extends upto 1.5 km above mean sea level.
- ♦ The **cyclonic circulation** over West Rajasthan & neighbourhood now lies over Southwest Rajasthan & neighbourhood at 2.1 km above mean sea level.

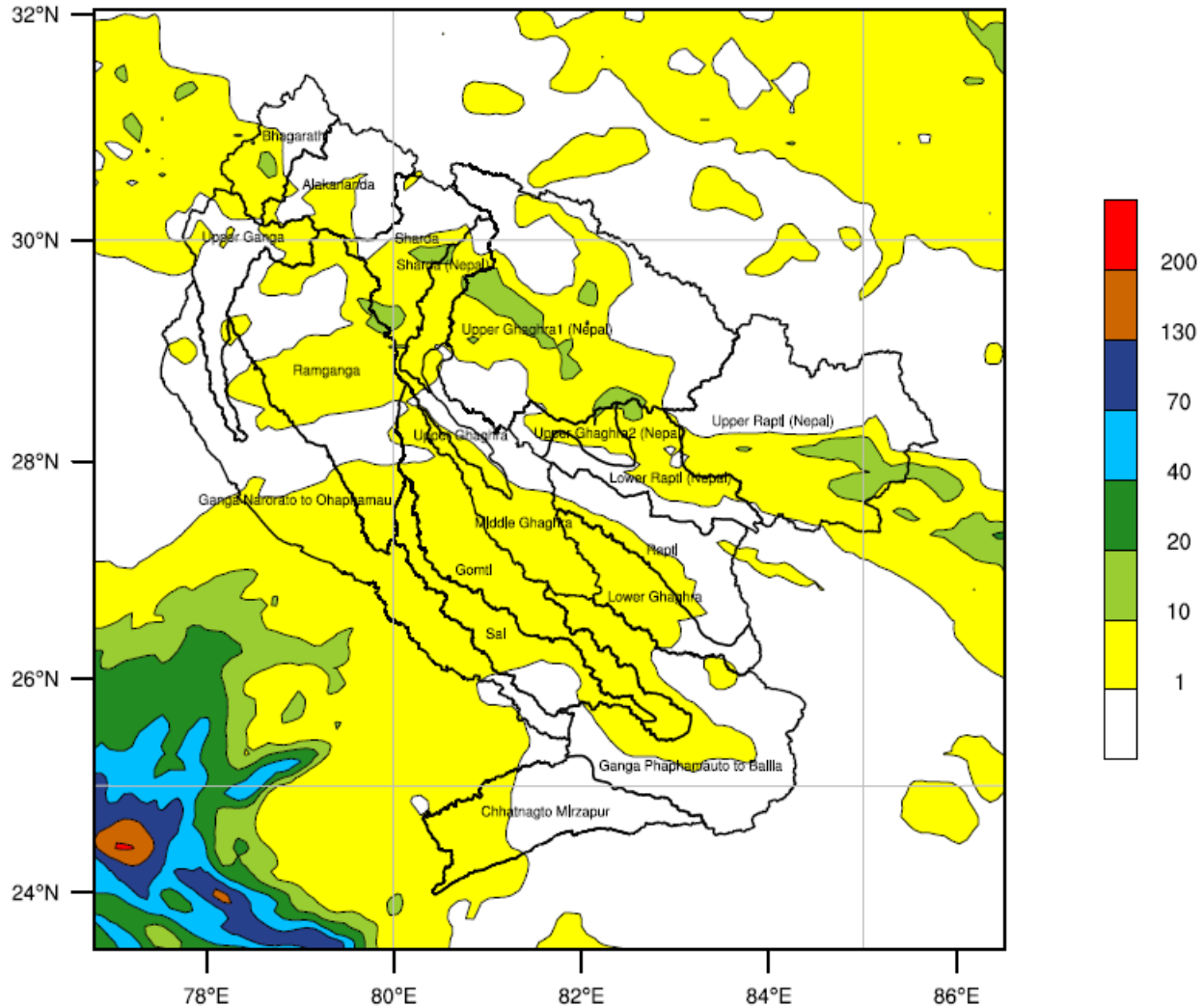
**II. a) DETERMINISTIC FORECAST (QPF):**

S. No.	BASIN NAME	SUBBASIN CODE/NAME	QPF (mm)		
			Day-1	Day-2	Day-3
1	Alaknanda (अलकनंदा)	Alaknanda (अलकनंदा)	0.1-10	0.1-10	0.1-10
2	Bhagirathi (भागीरथी)	Bhagirathi (भागीरथी)	0.1-10	0.1-10	0.1-10
3	Ganga (गंगा)	Chhatnag to Mirzapur (छतनाग से मिर्ज़ापुर)	0.1-10	0.1-10	0.1-10
		Narora to Phaphamau (नरोरा से फाफामऊ)	0.1-10	0.1-10	0.1-10
		Phaphamau to Ballia (फाफामऊ से बलिया)	0.1-10	0.1-10	0.1-10
		Gomti (गोमती)	0.1-10	0.1-10	0.1-10
		Sai (सई)	0.1-10	0.1-10	0.1-10
		Upper Ganga (उपरी गंगा)	0.1-10	0.1-10	0.1-10
4	Ghaghra (घाघरा)	Lower Ghaghra (निचली घाघरा)	0.1-10	0.1-10	0.1-10
		Middle Ghaghra (मध्य घाघरा)	0.1-10	0.1-10	0.1-10
		Upper Ghaghra (ऊपरी घाघरा)	0.1-10	0.1-10	0.1-10
5	Ramganga (रामगंगा)	Ramganga (रामगंगा)	0.1-10	0.1-10	0.1-10
6	Rapti (राप्ती)	Rapti (राप्ती)	0.1-10	0.1-10	0.1-10
7.	Sharda (शारदा)	Sharda (शारदा)	0.1-10	0.1-10	0.1-10

Init: 2020-08-29\_00:00:00  
 Valid: 2020-08-30\_03:00:00

## FLOOD MET OFFICE LUCKNOW

### IMD WRF Rainfall (mm) Forecast(24hr)



### Sub basin wise Average Rainfall Estimation

Alaknanda =	1 mm	Rapti =	1 mm
Bhagirathi =	3 mm	Sai =	2 mm
Chhatnagto Mirzapur =	1 mm	Sharda =	4 mm
Ganga Narorato Ohaphamau =	2 mm	Sharda (Nepal) =	3 mm
Ganga Phaphamauto Ballia =	1 mm	Upper Ganga =	1 mm
Gomti =	3 mm	Upper Ghaghra =	3 mm
Lower Ghaghara =	3 mm	Upper Ghaghra1 (Nepal) =	3 mm
Lower Rapti (Nepal) =	2 mm	Upper Ghaghra2 (Nepal) =	0 mm
Middle Ghaghara =	3 mm	Upper Rapti (Nepal) =	3 mm
Ramganga =	3 mm		

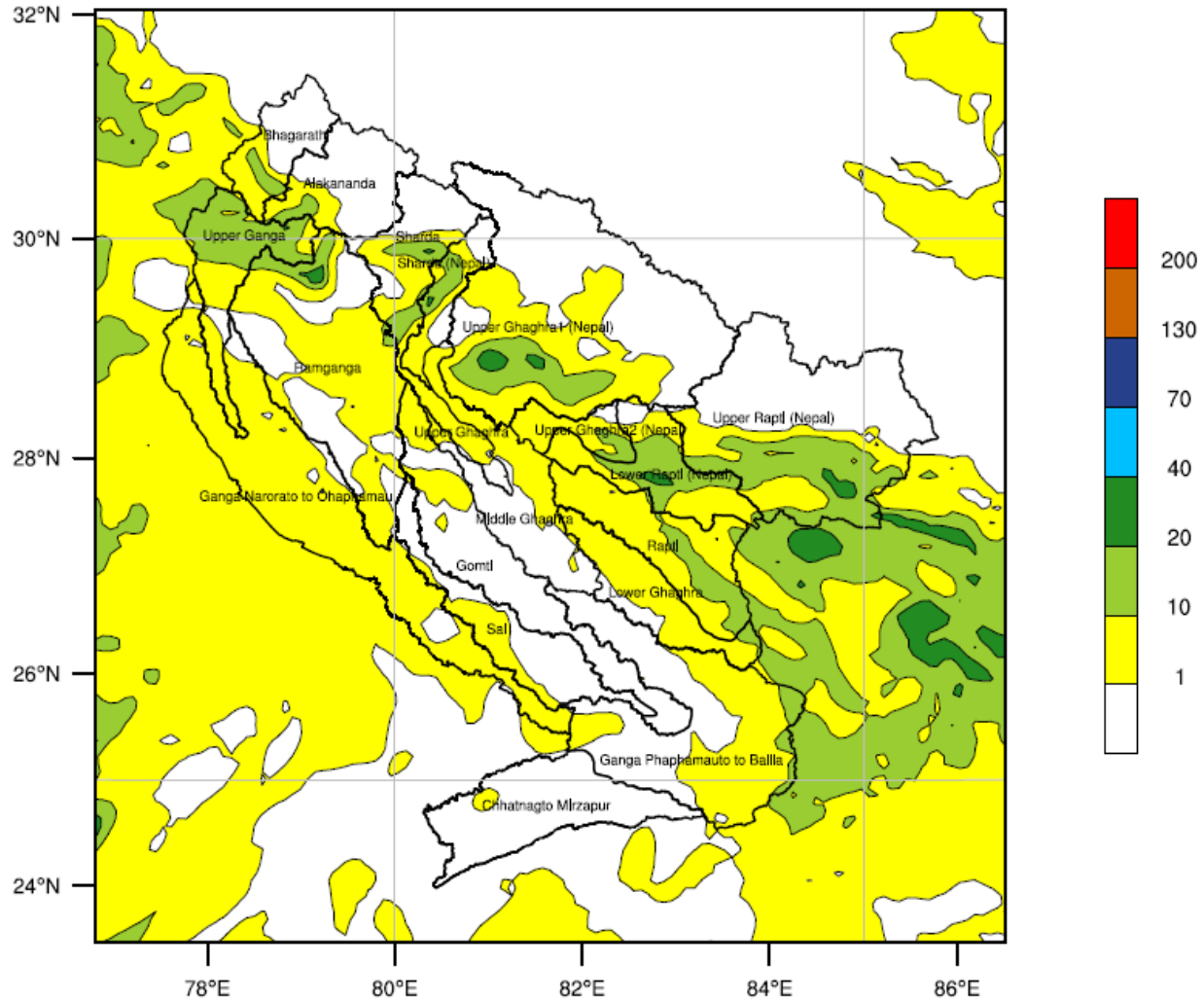
OUTPUT FROM WRF V3.6.1 MODEL

WE = 1001 ; SN = 945 ; Levels = 45 ; DIs = 9km ; Phys Opt = 16 ; PBL Opt = 2 ; Cu Opt = 5

Init: 2020-08-29\_00:00:00  
 Vald: 2020-08-31\_03:00:00

## FLOOD MET OFFICE LUCKNOW

### IMD WRF Rainfall (mm) Forecast(48hr)



### Sub basin wise Average Rainfall Estimation

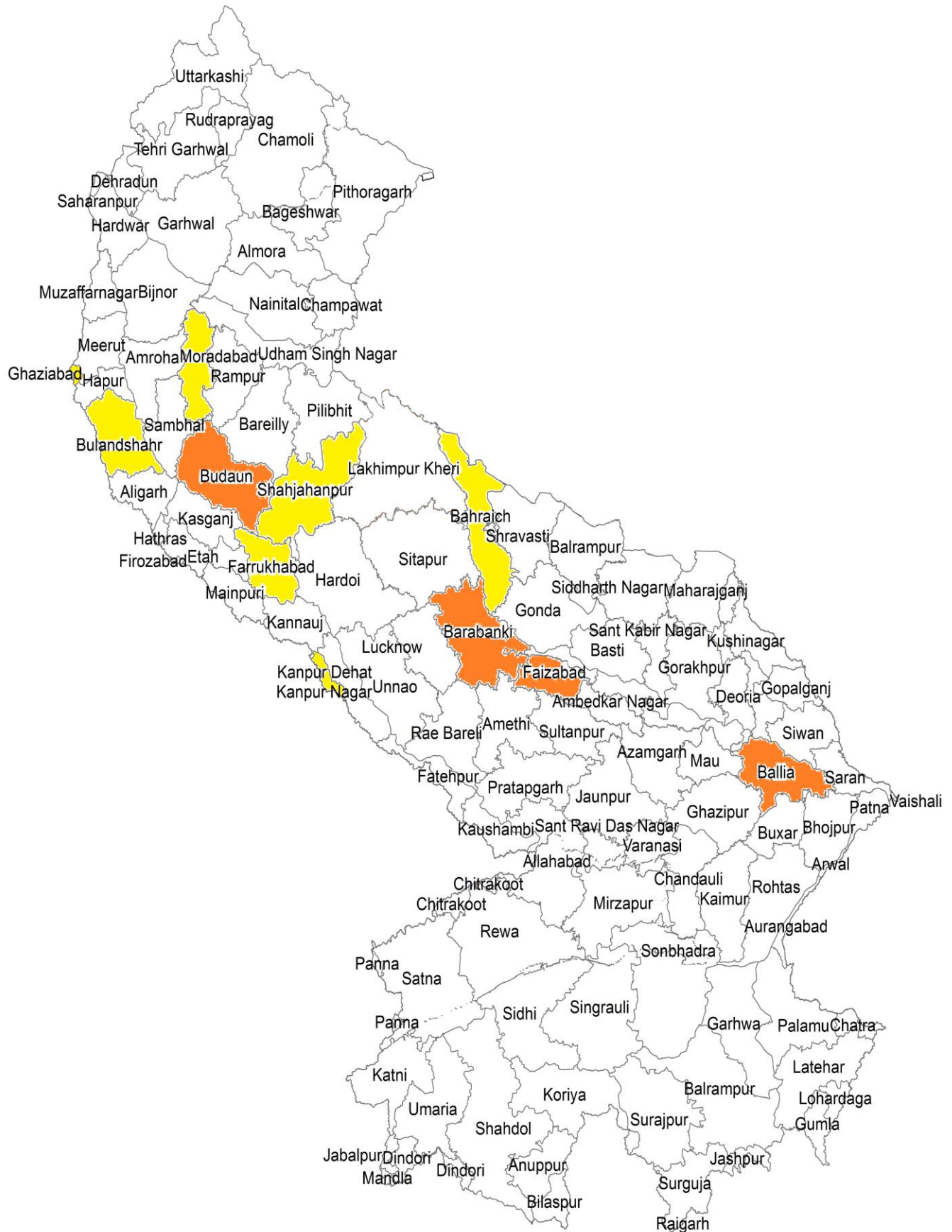
Alaknanda =	2 mm	Rapti =	7 mm
Bhagirathi =	3 mm	Sai =	1 mm
Chhatnagto Mirzapur =	0 mm	Sharda =	6 mm
Ganga Narorato Ohaphamau =	2 mm	Sharda (Nepal) =	4 mm
Ganga Phaphamauto Ballia =	2 mm	Upper Ganga =	9 mm
Gomti =	1 mm	Upper Ghaghra =	3 mm
Lower Ghaghara =	4 mm	Upper Ghaghra 1 (Nepal) =	6 mm
Lower Rapti (Nepal) =	9 mm	Upper Ghaghra 2 (Nepal) =	3 mm
Middle Ghaghara =	1 mm	Upper Rapti (Nepal) =	5 mm
Ramganga =	3 mm		

OUTPUT FROM WRF V3.6.1 MODEL

WE = 1001 ; SN = 945 ; Levels = 45 ; Dls = 9km ; Phys Opt = 16 ; PBL Opt = 2 ; Cu Opt = 5

## 2. Summary of flood situation as per CWC flood forecasting network

## Flood Situation on 29 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 154.18m with falling trend which is 0.08m above its Danger Level of 154.10m and 1.14m 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 rising 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 106.256m with falling trend which is 0.186 m above its Danger Level of 106.07 m and 1.36m below its previous HFL of 107.616 m (2014-08-18).
4. River Ghagra at Ayodhya in FAIZABAD 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 92.89m with rising trend which is 0.16m above its Danger Level of 92.73 m and 1.12m below its previous HFL of 94.01 m (2009-10-11).
5. 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 162.46m with steady trend which is 0.46m above its Danger Level of 162.0 m and 0.33m 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 ( $\geq 50$  mm or more)

Name of Place (State)	Rainfall (in mm)
Nararo Barrage (U.P)	49.6
Banbasa Barrage (U.K)	67.0
Banbasa (U.K)	66.8

## 2.2 LEVEL FORECAST

LEVEL FORECAST		
S.No.	Flood Situations	No. of Forecasting Sites
A.	<b>Extreme Flood Situation:</b>	
	(Site (s) where the previous Highest Flood Level (HFL) is exceeded or equalized)	0
B.	<b>Severe Flood Situation :</b>	
	(Site(s) where water Level touching or exceeding the Danger Level but below Highest Flood Level(HFL)	05
C.	<b>Above Normal Flood Situation:</b>	
	(Site (s) where water level touching or exceeding the warning Level but below Danger Level)	05
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	198.61	0800	S	198.65	30.08.20	0800	R
Ganga	Fatehgarh	Farukhabad	U.P	137.6	136.60	138.14	2010	137.36	0800	F	137.42	30.08.20	0800	R
Ganga	Ankinghat	Kanpur Dehat	U.P	124.0	123.0	124.49	2010	123.22	0800	S	123.10	30.08.20	0800	F
Ram Ganga	Moradabad	Moradabad	U.P	190.60	189.60	192.88	2010	190.15	0800	R	190.08	29.08.20	2000	F
Ram Ganga	Dabri	Shahjahanpur	U.P	137.30	136.30	139.695	1983	136.49	0800	S	136.60	30.08.20	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	Turtipar	Ballia	U.P	64.01	63.01	66.00	1998	64.28	0800	S	64.35	30.08.20	0800	R
Ghaghra	Ayodhya	Faizabad	U.P	92.73	91.73	94.01	2009	92.87	0800	S	92.95	30.08.20	0800	R
Ghaghra	Elgin Bridge	Barabanki	U.P	106.07	105.07	107.616	2014	106.266	0800	S	106.15	30.08.20	0800	F
Ganga	Kachhla bridge	Budaun	U.P	161.00	162.00	162.79	2010	162.46	0800	S	162.52	30.08.20	0800	R
Ganga	Ballia	Ballia	U.P	57.615	56.615	60.39	2016	57.22	0800	R	57.70	30.08.20	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 29.08.2020

## 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	3256.80	30.08.20	0800	R
Sone	Bansagar Dam	Harda	M.P.		341.64				0800	R	2147.00	30.08.20	0800	R
Ghaghra	Katerniaghat	Bahraich	U.P.		138			3926.782	0800	S	3800.00	30.08. 20	0800	R

### **Advisory on Hydro Meteorological Situation Expected from 30-08-2020 to 31-08-2020**

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

अधिशालसीअभियंता

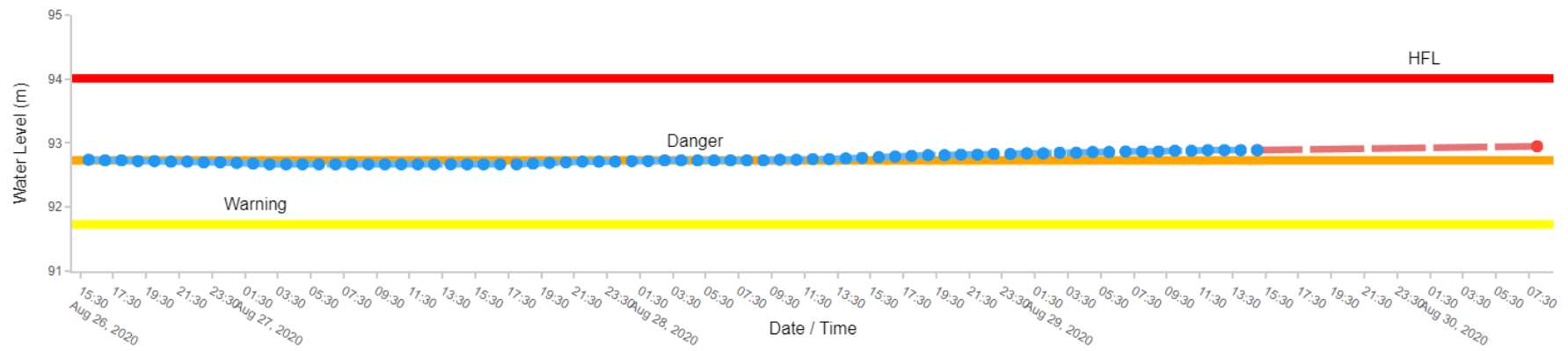
मध्य गंगा मण्डल -1 लखनऊ

# Hydrograph view of - Ayodhya



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

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

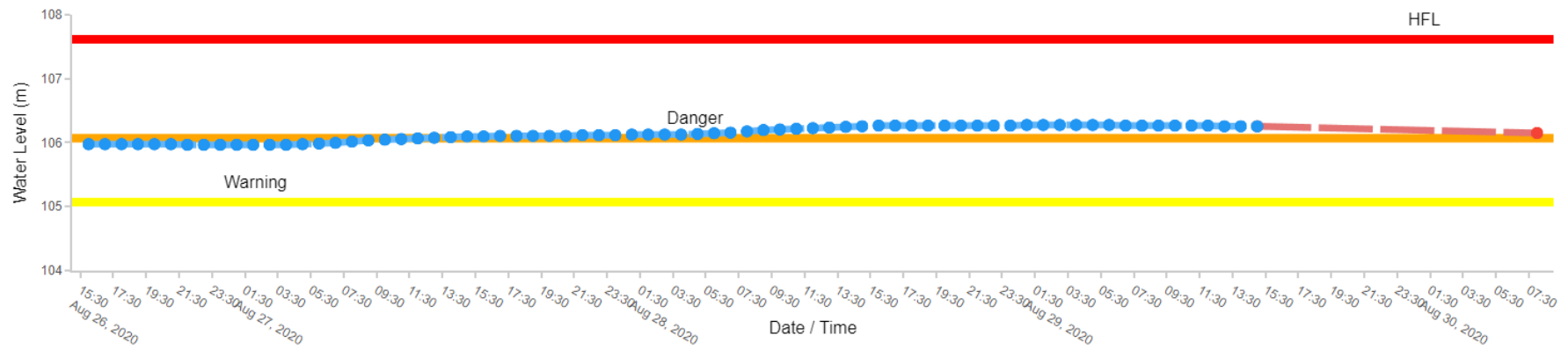


# Hydrograph view of - Elginbridge



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

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

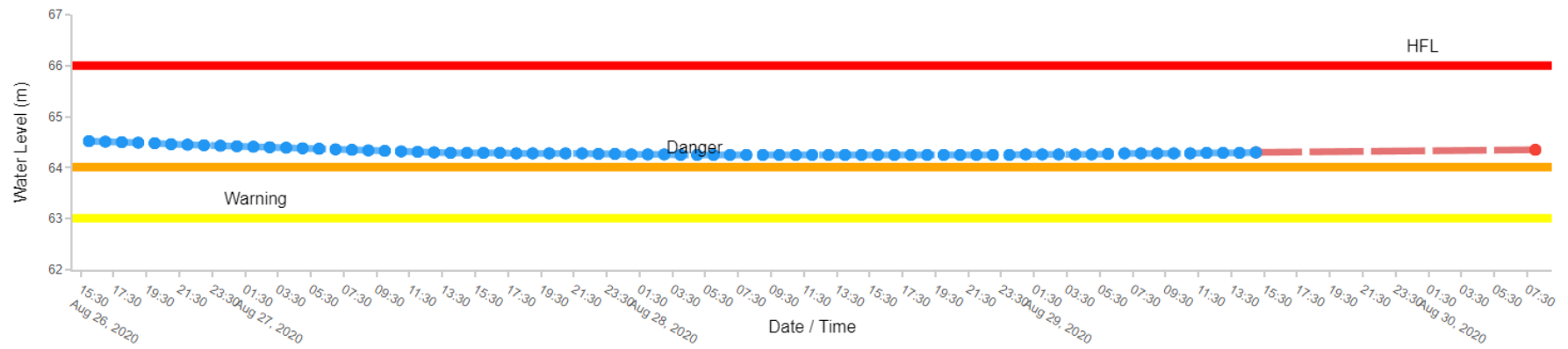


# Hydrograph view of - Turtipar



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

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

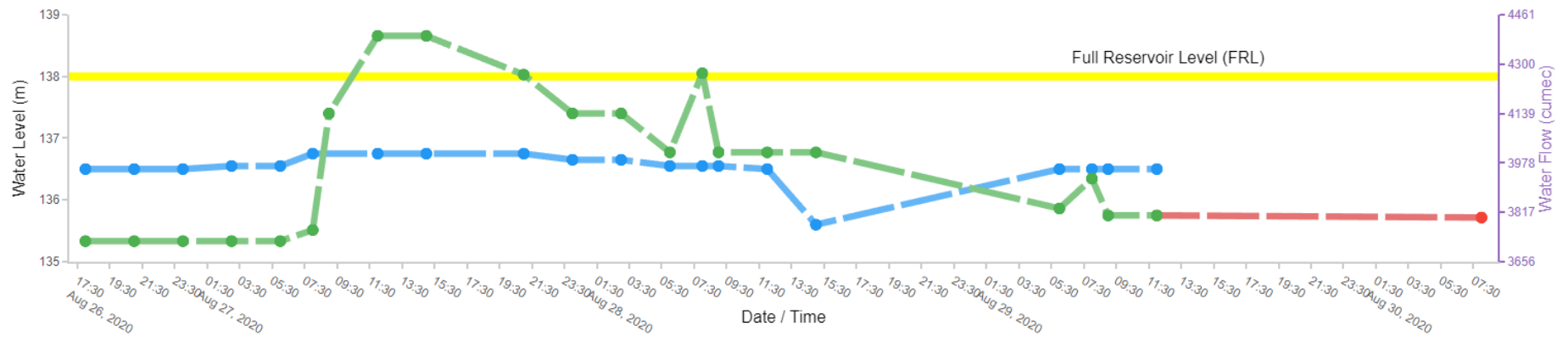


# Hydrograph view of - Katerniaghat Barrage



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

● Measured Water Level
● Forecasted Water Flow
● Inflow

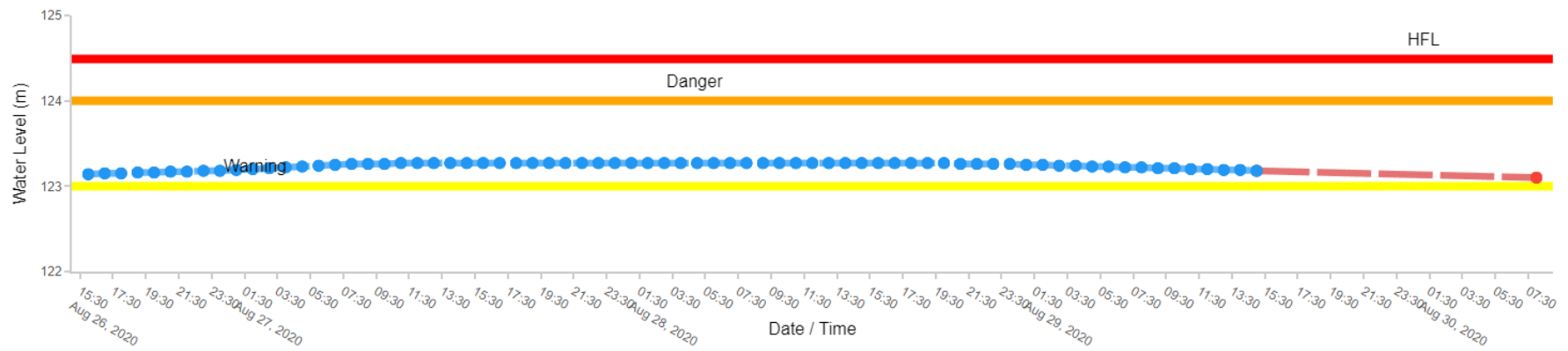


# Hydrograph view of - Ankinghat



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

● Forecasted Water Level
 ● Measured Water Level

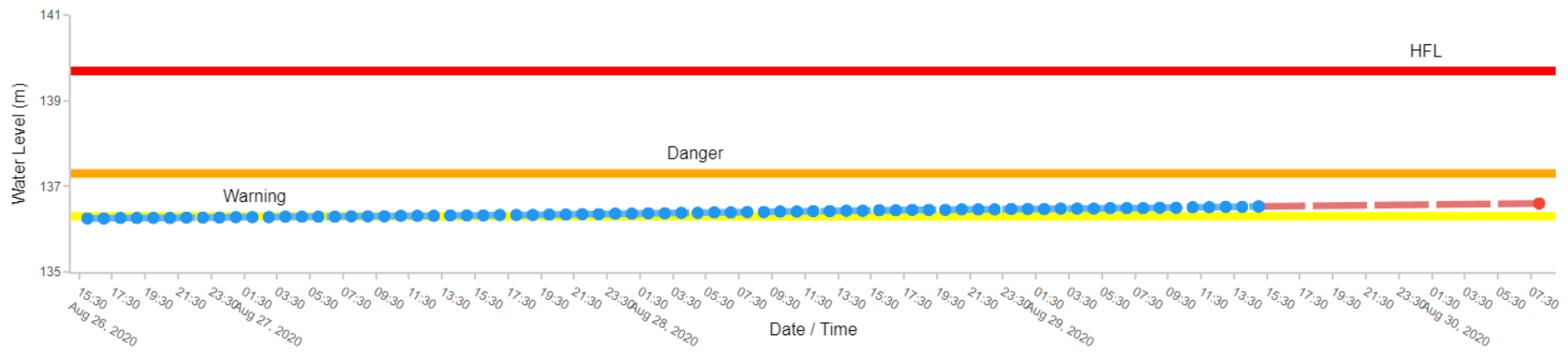


# Hydrograph view of - Dabri



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

● Forecasted Water Level
 ● Measured Water Level



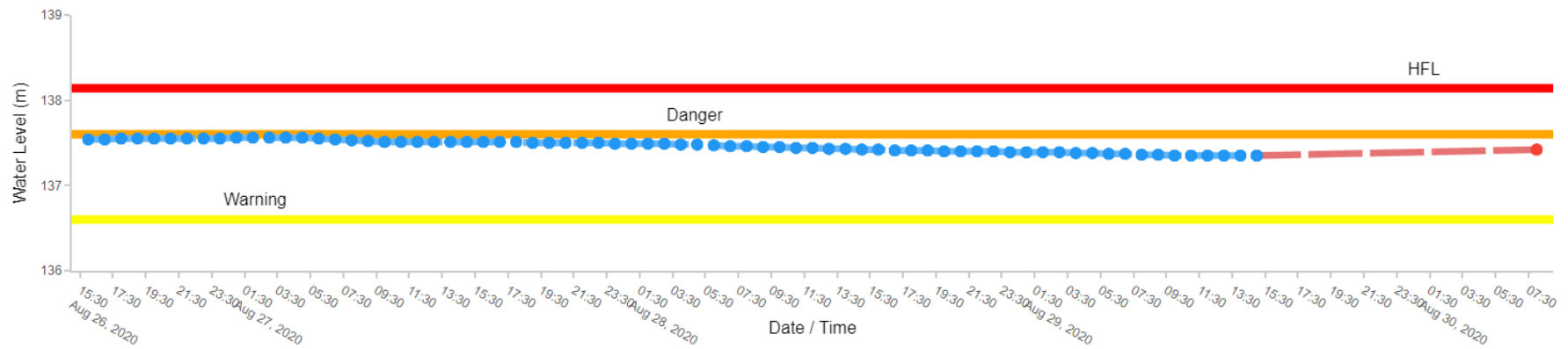


# Hydrograph view of - Fatehgarh



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

● Forecasted Water Level
 ● Measured Water Level

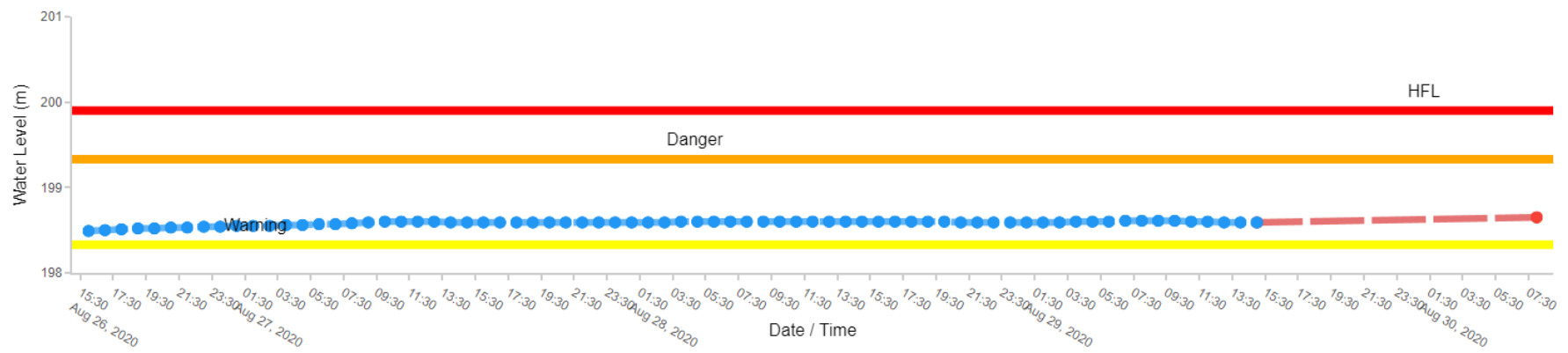


# Hydrograph view of - Garhmukteshwar



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

● Forecasted Water Level
 ● Measured Water Level

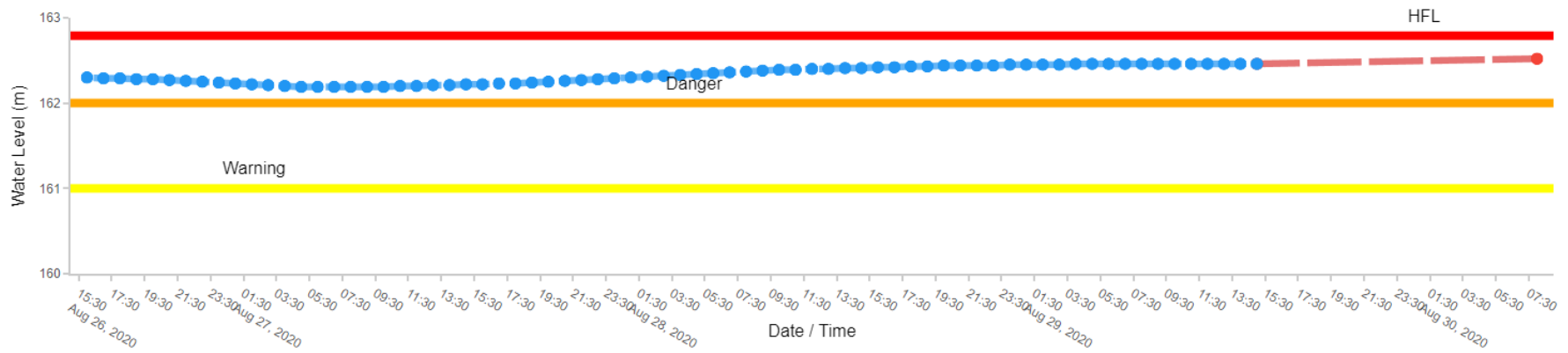


# Hydrograph view of - Kachhlabridge



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

● Forecasted Water Level
 ● Measured Water Level

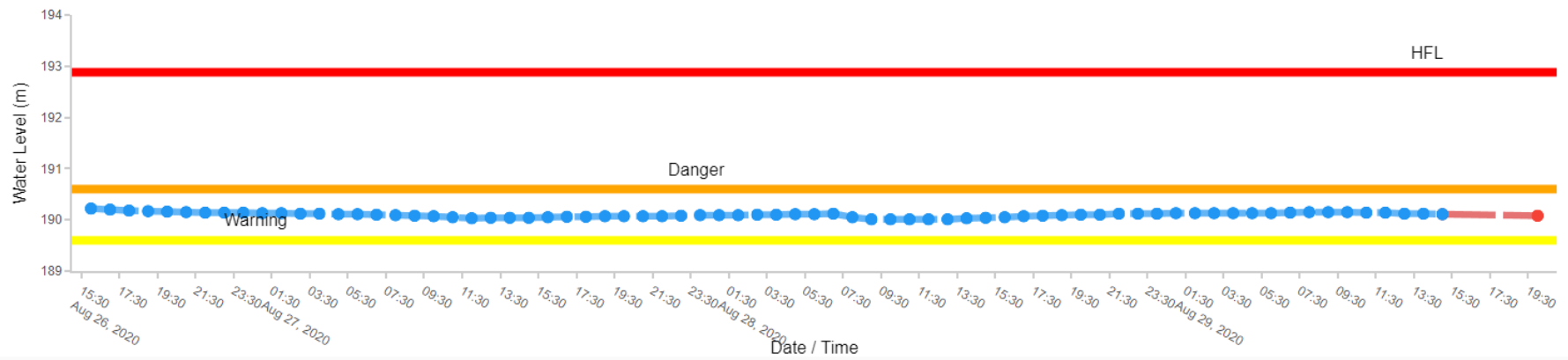


## Hydrograph view of - Moradabad



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

● Forecasted Water Level
 ● Measured Water Level

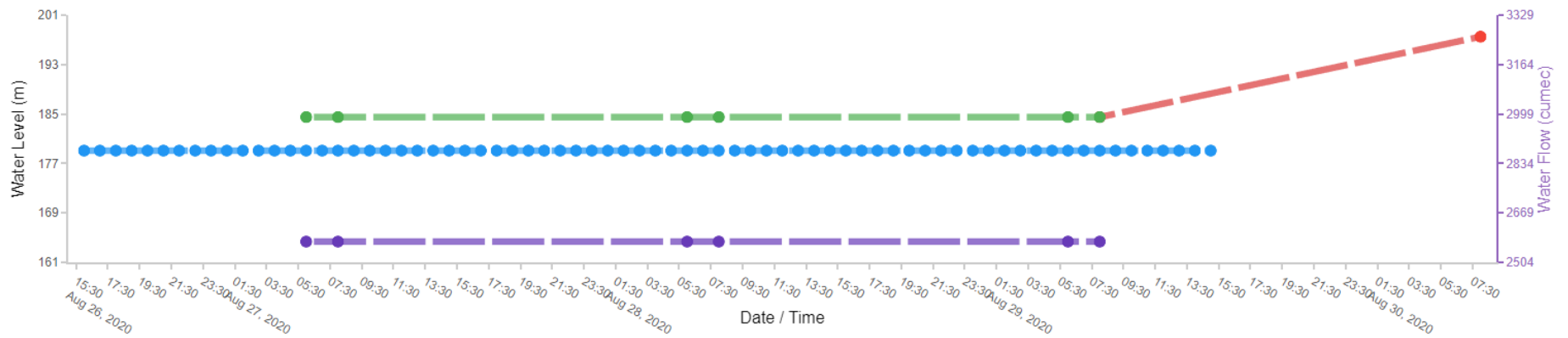


# Hydrograph view of - NARORA Barrage



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

Measured Water Level
Forecasted Water Flow
Inflow
Canal Outflow

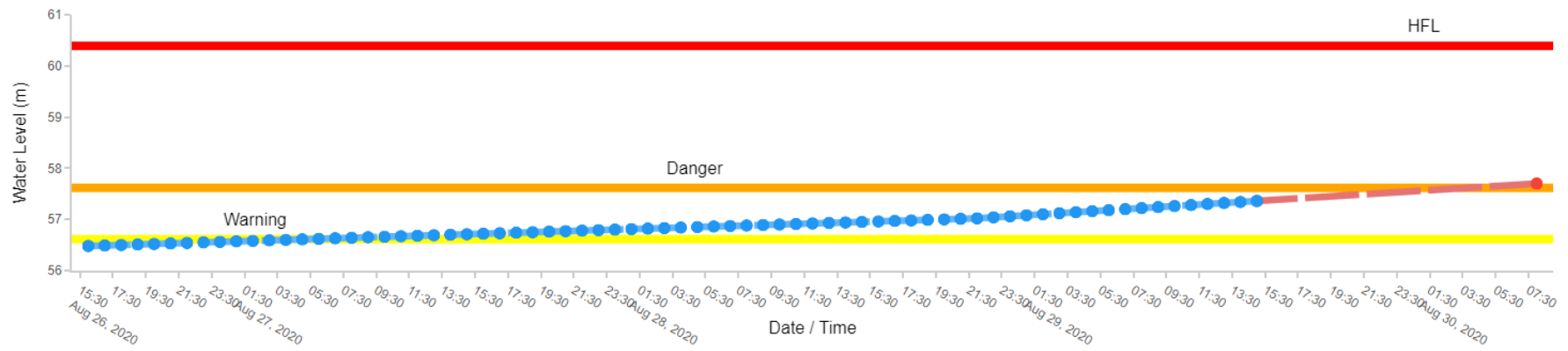


# Hydrograph view of - BALLIA



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

● Forecasted Water Level
 ● Measured Water Level



Hydrograph view of - Bansagar Dam



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

Measured Water Level Forecasted Water Flow

