Flood Intelligence: Brahmaputra

Quick user guide

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Open `https://flood-intelligence-1p9.pages.dev` on a phone or computer. No sign in, no key, free. Words in **bold** are what you do.

What the app gives you

Give the river stage at the gauges, and the app returns the **water surface elevation (WSE) at every node of the Brahmaputra** between them, from the BRACE model: a median and a 5 to 95% band (500 draws per node), in metres above EGM2008. It covers 3,388 nodes from Dibrugarh to Bahadurabad.

Gauges, upstream to downstream: Dibrugarh, Neamatighat, Guwahati, Goalpara, Dhubri, Bahadurabad. Tezpur is shown only as an observed check, never used as an input.

Example 1: start at Neamatighat

1. **Click Two gauges.**
2. **Select Neamatighat** as the upstream gauge. Guwahati is set as the downstream gauge automatically (Figure 1).
3. In each gauge box, **click Add Screenshot** and **choose the Flood Hub screenshot** of that gauge (Figure 2). Or **click Enter manually** and **type the Date and Stage (m)**.
4. **Check the values** the app read against the picture. The profile then opens by itself.

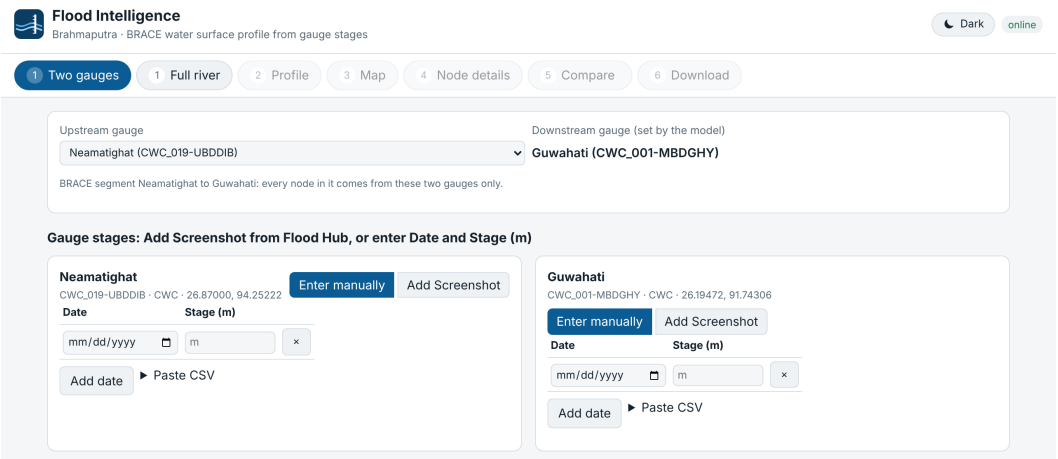
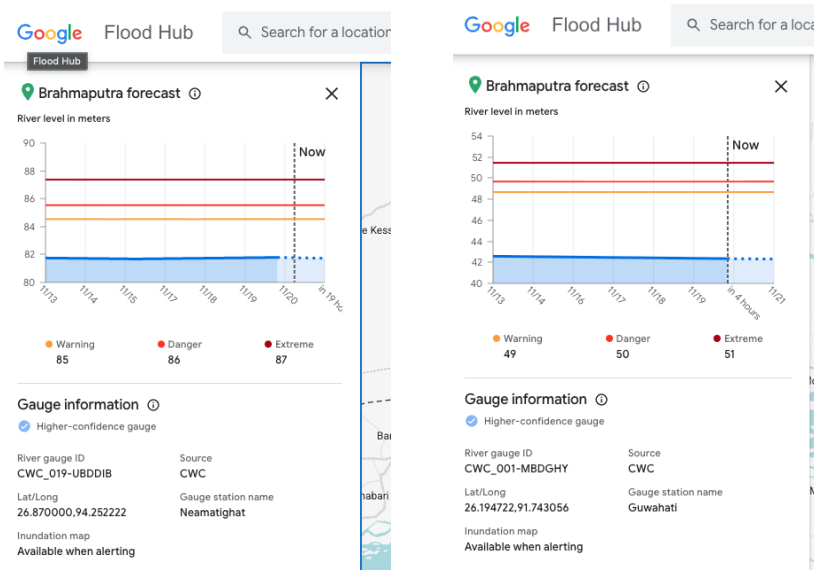


Figure 1: Neamatighat selected; Guwahati is filled in by the model.



(a) Neamatighat (b) Guwahati

Figure 2: The kind of Google Flood Hub screenshot to add: the whole forecast panel, including *Gauge information*. Values after the *Now* line are forecast and are not used.

If you add the wrong gauge's screenshot, the app refuses it and tells you why (Figure 3). **Click Add Screenshot for Guwahati** and choose the right one.

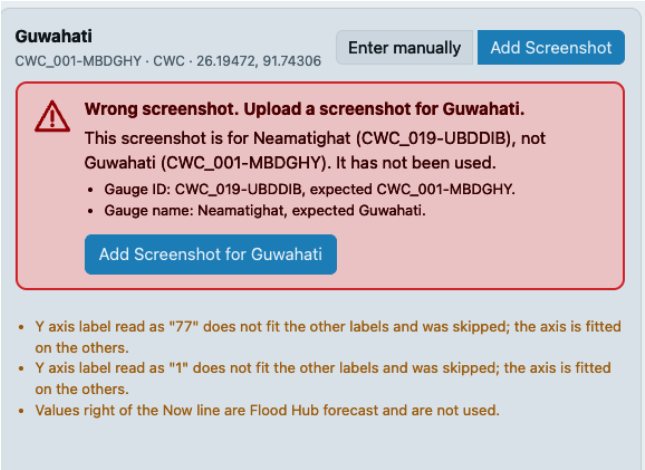


Figure 3: A Neamatighat screenshot put in the Guwahati box: gauge name and ID do not match, so nothing is used.

Read the profile

Select a Date at the top of the **Profile** tab. The dark line is the median, the grey band the 5 to 95% range, and the dashed yellow, orange and red lines are the indicative Warning, Danger and Extreme levels (Figure 4).

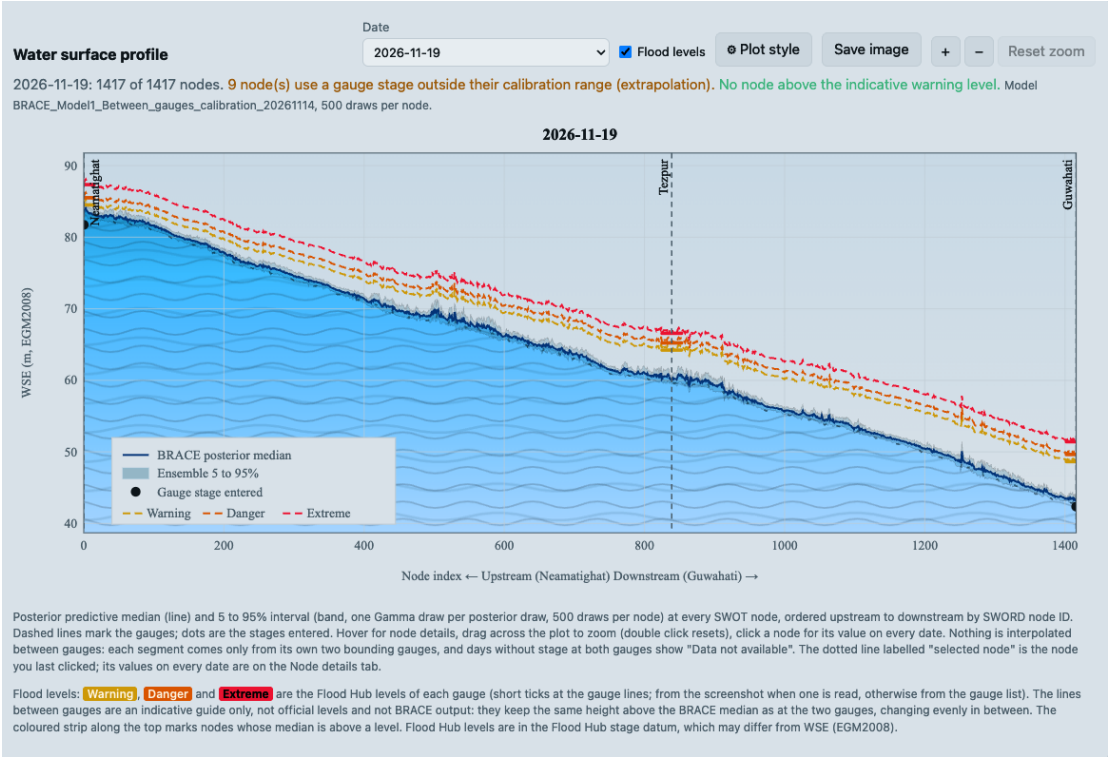


Figure 4: Neamatighat to Guwahati, 19 November 2026: 1,417 nodes, WSE in m (EGM2008).

Hover over the line to see one node (Figure 5). On 19 November 2026, node 45259500040241 (index 840, near Tezpur) has a median of **60.07 m** and a 5 to 95% range of **59.57 to 60.59 m** (EGM2008), 4.13 m below the indicative Warning level.
Drag across the plot to zoom; **double click** to reset.
An orange note such as "9 node(s) use a gauge stage outside their calibration range" means those nodes are extrapolated: treat them with care.

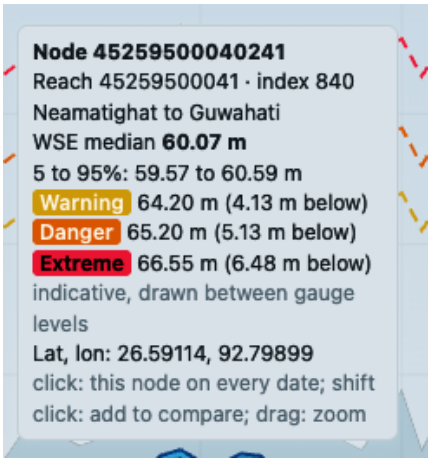
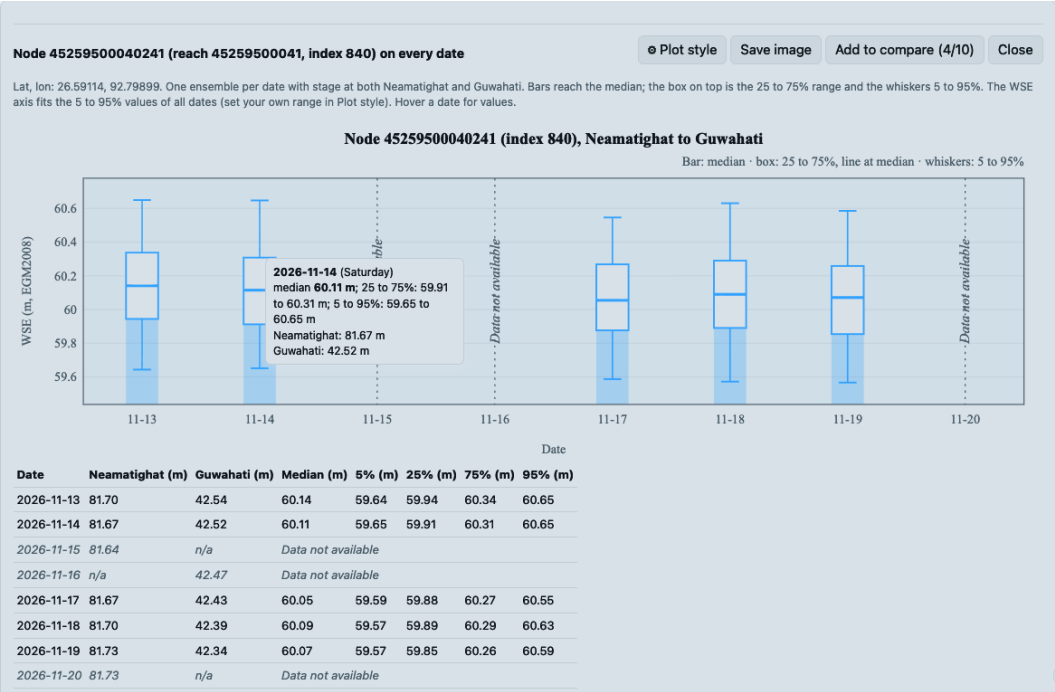


Figure 5: Hover card.

One node on every date

Click a node on the profile or the map. The **Node details** tab shows that node on every date (Figure 6). A date without stage at both gauges says *Data not available*; nothing is guessed.



Date	Neamatighat (m)	Guwahati (m)	Median (m)	5% (m)	25% (m)	75% (m)	95% (m)
2026-11-13	81.70	42.54	60.14	59.64	59.94	60.34	60.65
2026-11-14	81.67	42.52	60.11	59.65	59.91	60.31	60.65
2026-11-15	*81.64*	*n/a*	*Data not available*				
2026-11-16	*n/a*	*42.47*	*Data not available*				
2026-11-17	81.67	42.43	60.05	59.59	59.88	60.27	60.55
2026-11-18	81.70	42.39	60.09	59.57	59.89	60.29	60.63
2026-11-19	81.73	42.34	60.07	59.57	59.85	60.26	60.59
2026-11-20	*81.73*	*n/a*	*Data not available*				

Figure 6: Node index 840: bar to the median, box 25 to 75%, whiskers 5 to 95% (m, EGM2008).

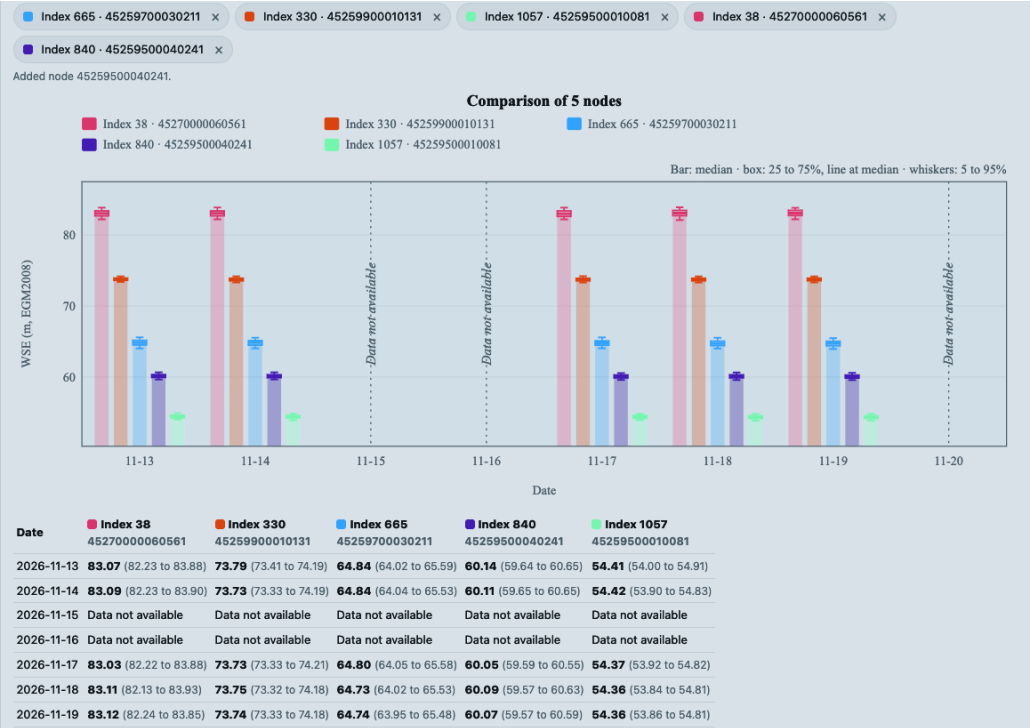
Map and compare

Click Map to see every node coloured by its median on the chosen date (Figure 7). **Click Satellite or Streets** to change the background. The map needs internet.



Figure 7: River map, Neamatighat (81.73 m) to Guwahati (42.34 m), 19 November 2026.

To compare places, **click Add to compare** on a node, or **click Compare**, **type a node index or Node ID** and **click Add**. Up to 10 nodes fit on one chart (Figure 8).



Date	Index 38 45270000060561	Index 330 45259900010131	Index 665 45259700030211	Index 840 45259500040241	Index 1057 45259500010081
2026-11-13	**83.07** (82.23 to 83.88)	**73.79** (73.41 to 74.19)	**64.84** (64.02 to 65.59)	**60.14** (59.64 to 60.65)	**54.41** (54.00 to 54.91)
2026-11-14	**83.09** (82.23 to 83.90)	**73.73** (73.33 to 74.19)	**64.84** (64.04 to 65.53)	**60.11** (59.65 to 60.65)	**54.42** (53.90 to 54.83)
2026-11-15	Data not available	Data not available	Data not available	Data not available	Data not available
2026-11-16	Data not available	Data not available	Data not available	Data not available	Data not available
2026-11-17	**83.03** (82.22 to 83.88)	**73.73** (73.33 to 74.21)	**64.80** (64.05 to 65.58)	**60.05** (59.59 to 60.55)	**54.37** (53.92 to 54.82)
2026-11-18	**83.11** (82.13 to 83.93)	**73.75** (73.32 to 74.18)	**64.73** (64.02 to 65.53)	**60.09** (59.57 to 60.63)	**54.36** (53.84 to 54.81)
2026-11-19	**83.12** (82.24 to 83.85)	**73.74** (73.33 to 74.18)	**64.74** (63.95 to 65.48)	**60.07** (59.57 to 60.59)	**54.36** (53.86 to 54.81)

Figure 8: Five nodes compared; the table gives the median and, in brackets, the 5 to 95% range (m, EGM2008).

Example 2: the whole river

1. **Click Full river.**
2. **Add a screenshot or type the stage** for all six gauges, for the **same date**. Bahadurabad has no Flood Hub ID: **type its stage**.
3. Optionally **add Tezpur** to see an observed check point.
4. The profile opens for the whole river: 3,388 nodes in 5 segments (Figure 9).

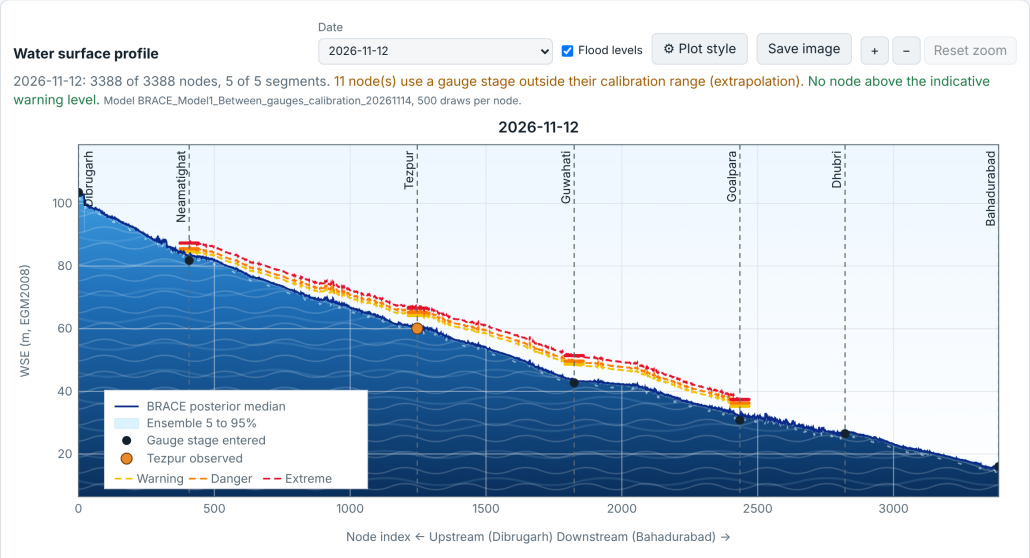


Figure 9: Whole river, Dibrugarh to Bahadurabad, 12 November 2026 (m, EGM2008). Orange dot: Tezpur observed. Dibrugarh (103.50 m), Dhubri (26.50 m) and Bahadurabad (16.00 m) are example values only.

Save your results

Click Download for a CSV (every node with Lat, Lon, median, 5% and 95%), the profile picture (PNG or SVG), or your readings. Every chart also has **Save image**.

> **Good to know.** Model WSE is in metres above EGM2008; Flood Hub stages and flood levels use the Flood Hub datum, which may differ, and the level lines between gauges are a guide only. Screenshots are read on your device; nothing is uploaded. After the first visit the app works offline (except the map). **Click Dark** to switch theme.

Flood Hub data: Google, CC BY 4.0. Map: OpenStreetMap contributors; Sentinel-2 cloudless 2020 by EOX; terrain tiles from AWS Open Data.