User Guide — Flood Results Dashboard

Purpose

This guide explains how to open and use the flood visualization dashboard.

This document is intended for:

- Decision makers
- Disaster management teams
- Stakeholders
- Non-technical users

If you need to run simulations → See RUNNING.md
If you need to install system → See INSTALL.md

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1. Accessing The Dashboard

If your IT / HPC team has already started the system:

Open browser and go to: http://localhost:5173

If you do not know the dashboard URL, contact your system operator.

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2. If Dashboard Is Not Running (Operator Section)

If you are responsible for starting services:

Step 1 — Start Map Server (GeoServer)

```
make geoserver-start
```

OR

```
bash build/geoserver_start.sh
```

Verify server:

```
curl -I http://localhost:8080/geoserver
```

Expected: 200 or 302 status.

Step 2 — Start Dashboard (React App)

```
source build/setup_tools_env.sh
cd anuga-viewer-app
npm run dev
```

Dashboard default URL: http://localhost:5173

3. Using The Dashboard

Layer Selection (Right Panel)

Max Depth Layer

Shows maximum water depth reached during simulation.

Use this for:

- Worst-case flood extent
- Risk assessment
- Planning evacuation zones

Time Series Layer

Shows flood evolution over time.

Use this for:

- Flood arrival time
- Flood progression analysis
- Emergency response timing

4. Time Slider

When Time Series layer is selected:

You will see a time slider.

You can:

- Drag to move through simulation time
- See flood growth or recession

Each step represents a simulation time interval.

5. Map Navigation

Zoom: Mouse wheel OR +/- buttons

Pan: Click and drag

Auto Center: Map automatically moves to selected dataset area.

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6. Understanding Flood Colors

Color	Depth	Meaning
Yellow	0.01 – 0.2 m	Minor water accumulation
Orange	0.5 – 1.0 m	Vehicle movement risky
Red	2.0 – 3.5 m	Dangerous for people
Dark Red	5.0 – 10 m+	Severe flooding, structural risk

No Color = Dry Area

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7. Common Questions

Map Is Blank

Check:

- Layer selected?
- Wait few seconds for loading
- Internet / network connectivity
- Contact operator if issue persists

Time Slider Not Working

Make sure: Time Series layer selected (not Max Depth)

Data Not Visible

Possible causes:

- Simulation not deployed to GeoServer
- GeoServer not running
- Network access blocked

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8. Good Practices

For best performance:

- Use Chrome or Edge browser
- Stable internet connection
- Avoid opening too many layers simultaneously

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9. When To Contact Support

Contact support if:

- Dashboard not opening
- Layers not loading after long wait
- Data appears corrupted or missing
- Access denied errors

Support Contact

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