BARON WEATHER

NEW PRODUCT BRIEF

Baron Flood Finder

Flash Flood Intelligence. On Demand. At Scale.

THE CHALLENGE

Flash floods leave little time to act. Traditional flood modeling can take hours to produce results, and for organizations operating across vulnerable regions, that's time they don't have. Flood Finder closes the gap with AI-powered flash flood guidance in 5 to 10 minutes, so teams can act while a threat is still developing.

What Flood Finder Does

Flood Finder is an AI-powered flash flood intelligence solution that shows what floodwater will actually do on the ground. It combines live radar rainfall data and Baron's high-resolution weather forecasts with a physics-trained AI model. Rather than just mapping where flooding occurs, it defines water depth and momentum over time: how deep the water gets, how fast it moves, and which direction it flows. Guidance is delivered at the street and basin level while an event is still unfolding.

Run Flood Finder on Demand

Running Flood Finder is as simple as pushing a button. Select your basin or area and start a run. In 5 to 10 minutes, you'll have street-level flood guidance showing which roads, assets, and communities are at risk. As conditions change, run it again for an updated picture. There are no complex processes to manage and no waiting on scheduled model cycles.

Real-World Verification



Location
Google Street View

Observed Flooding
WDRB News

Flood Finder Results
Flood Simulation

What Flood Finder Delivers

- **Results in Minutes:** A full model run takes 5 to 10 minutes and produces a 12-hour forecast in 5-minute steps. Re-run it anytime as conditions evolve.
- **Beyond Flood Extent:** See water depth and momentum over time, including how fast floodwater moves and where it's headed.
- **Street-Level Detail:** Resolution is as fine as 10 meters anywhere in the world, built around the natural structure of water basins.
- **Easy Integration:** Industry-standard GeoTIFF output, available via API, drops into existing platforms, dashboards and workflows.
- **No Field Hardware:** No sensor networks, soil data or specialized infrastructure required. Flood Finder runs on radar and forecast data.
- **One Provider:** Baron delivers the radar, forecast model and flood model as one complete solution, or works alongside your existing infrastructure.

The Last Mile Advantage

Flood Finder is built for enterprise integration. Baron works with your team to configure delivery and output around your operational requirements, so Flood Finder fits how your organization works and reaches your end users in the format they need. Flood Finder is designed to get your data where it needs to go, whether that's an internal decision-support system, a customer-facing application or a field operations platform.

Industries and Use Cases

Emergency Management

Give emergency managers and public safety teams the lead time they need. Flood Finder delivers basin-level flood impact guidance within minutes, which means faster warning decisions, better resource pre-positioning, and a more coordinated response.

Utilities and Energy

Protect grid infrastructure, substations, and field crews from rapidly developing flood threats. Street-level detail on water depth and flow helps utility operators identify at-risk assets before conditions deteriorate, reducing outage risk and improving crew safety.

Transportation and Infrastructure

Road closures, rail disruptions, and bridge failures often follow flash flood events with little warning. Flood Finder shows transportation operators where flooding is likely to impact infrastructure, so they can reroute and respond before the water arrives.

Government and National Hydrology Agencies

Support national and regional flood warning programs with a scalable, on-demand modeling capability. Flood Finder can be deployed wherever terrain data exists. That makes it a strong complement to existing forecast operations, especially in regions with limited ground sensor coverage.

Insurance and Risk

Quantify flood exposure in near real time. With depth and momentum resolutions as fine as 10 meters, insurers and risk modelers get a level of localized detail not previously available from operational flood modeling.

Backed by Baron

Baron Weather brings more than 35 years of expertise in radar, high-resolution forecasting, and meteorological science. Flood Finder brings that expertise together in one end-to-end solution, from data ingestion to model output to delivery. The quality of flood guidance is only as good as the data going in, and Baron manages that quality end-to-end. There's no need to stitch together multiple vendors or manage complex data pipelines, so your team can focus on acting on the intelligence.

See Flood Finder in Action

Bring advanced flash flood intelligence into your organization. Whether you need API access, integration into existing platforms or a solution tailored to your end users, our team is ready to help you put Flood Finder to work.

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