



GaiaXus

Water quality monitoring systems
for citizen science & education

January at GaiaXus



Tracking Road Salt Pollution—Even Under Ice!

When a winter storm was in the forecast, we knew we wouldn't be able to reach the creek safely to take manual readings. So, we deployed one of our **Water Guardian** sensors 100 meters downstream from a busy road. Our goal? To detect salt pollution as **spikes in conductivity** and analyze its correlation with **turbidity and water temperature**.

Flawless Data Collection—Even Under Ice

Roads were hazardous for days, but our sensor kept working **flawlessly recording** data every 5 minutes for **40 continuous hours**, even under **2 inches of**

ice! Once we retrieved the sensor, the data told an important story:

✓ **Our sensors are built to last**—even in extreme winter conditions.

✓ **Salt pollution is transient**—it spikes as snowmelt washes road brine into the creek, then quickly dilutes.

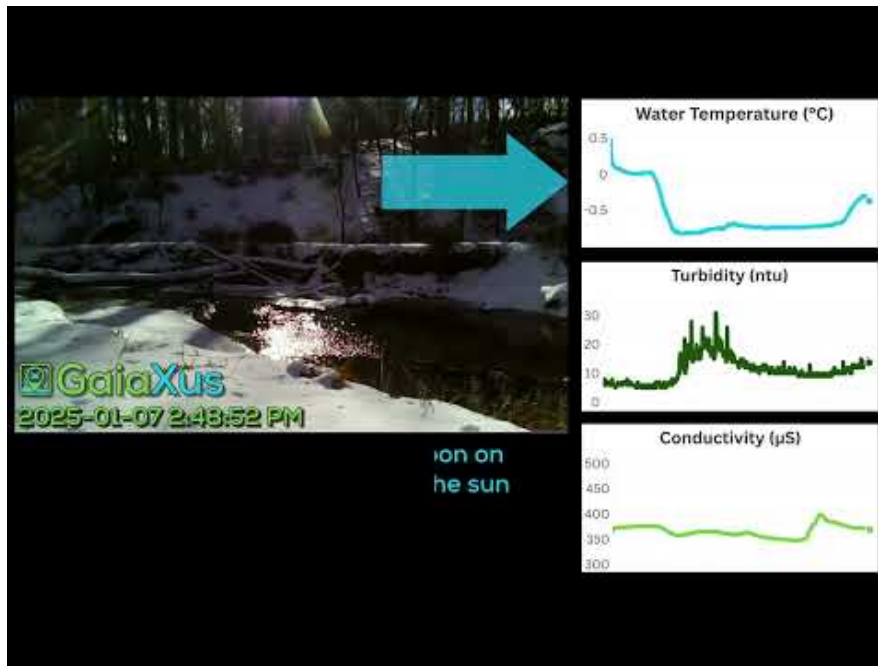
✓ **Single-point readings miss the big picture**—had we only measured before and after the storm, we wouldn't have captured the full impact.

Affordable Science for Everyone

Until now, tracking salt pollution requires expensive sondes or data loggers—equipment far beyond the budgets of many schools and citizen science groups. But our **low-cost, Water Guardian** has proven its **accuracy, reliability and versatility**, making real-time environmental monitoring **accessible to citizen scientists and schools everywhere**.

 Check out the full [data report here!](#)

Want to join the movement? Contact us to learn how you can **monitor your local waterway** with our easy-to-use, affordable technology.



A Quick Personal Note

January brought uncertainty and challenges for those working in education and environmental science. But our mission remains the same: **we must work together to protect our environment.**

Here's How We're Taking Action:

- ✓ **Doubling down on innovation**—we're committed to building the most accurate and accessible environmental technology.
- ✓ **Supporting science and education at all levels**—from citizen science and academic research to schools and communities, both nationally and globally.
- ✓ **Making monitoring more accessible**—citizen science groups with fewer than 10 members and **Title 1 schools in the U.S.** receive a **25% discount.**

Lets get out there and make the world a better place.

Dietrich Ruehlmann, GaiaXus



Interested in bringing GaiaXus to your event,
classroom, or community? We would love to hear from you!

Get in touch



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