



## Water quality monitors for citizen scientists, students, and educators

Engaged citizens are increasingly monitoring water quality in rivers, lakes, oceans, and streams, delivering essential data to understand ecosystems, track weather impacts, and protect natural resources.



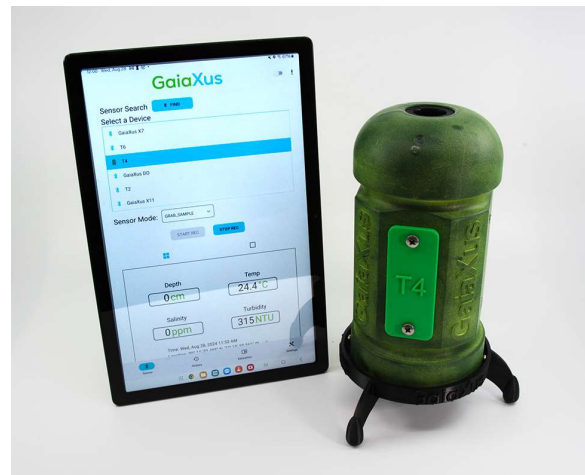
The GaiaXus system provides a modern, connected, and affordable solution that ensures accurate, reliable monitoring—empowering community programs, organizations, and individuals in their environmental efforts

### .Advantage

At its core, the GaiaXus Water Guardian sonde is a lightweight, portable sensor that measures water temperature, depth, nephelometry, turbidity, and conductivity/salinity. This rechargeable

sonde can be deployed to depths of 30 feet (10 meters), used as a buoy, for grab samples, or towed behind a slow-moving watercraft, collecting GPS-tagged data along the way.

The Water Guardian seamlessly connects to its companion mobile app, where data is visualized, contextualized, and integrated into community projects, educational programs, and lesson plans.

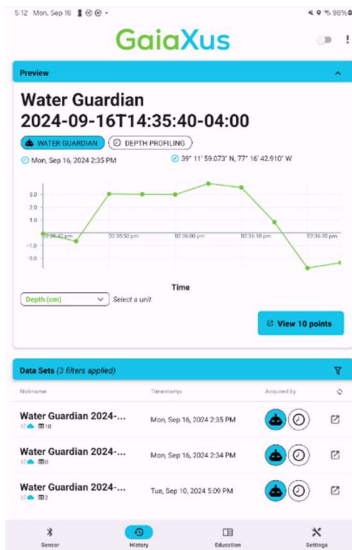


Online, the GaiaXus system connects to a secure AWS cloud where data is stored, shared, and mapped using the GIS standard tool, ArcGIS. Its open data architecture enables easy downloads of raw files and supports the development of offline lesson plans for community engagement and education.

The GaiaXus system is specifically designed for participatory science by stressing affordability, robustness and

ease of use without compromising accuracy and connectivity.

## Technology



The GaiaXus sonde is compact at just 0.88 lb (400 g) and operates wirelessly for both charging and data transfer. All sensors are housed within a central water channel, simplifying calibration and reducing costs. The durable casing is made from 100% recycled, impact-resistant Nylon for reliable use in challenging environments.

## Application

The GaiaXus system is designed for versatile deployment across various



environments and study areas. For shore-bound sampling, the sonde can be lowered from docks, bridges, or boats to depths of up to 30 ft (10 m) on a standard line, an expensive and heavy cable is not

required. The sonde can be left unattended to capture data during extreme weather, diurnal, or tidal events.

With GPS-coded data, the sonde can also be towed behind a kayak to record data along a river or lake, allowing seamless, one-handed water column analysis.



All data is transferred to the GaiaXus cloud for easy access, download, and analysis. The GaiaXus portal enables team


leaders to create customized, context-rich educational materials and information, broadening system use across grades, courses, and programs with translation and accessibility features.

## Contact us!



Contact us to find out if our systems can help you with your monitoring projects or in your classroom.

See you by the creek!

 @gaiaxus  
[info@gaiaxus.com](mailto:info@gaiaxus.com)  
<https://gaiaxus.com>