AQUARIUS
TIME-SERIES™ SOFTWARE

Water Data Management Solutions

Faster Analysis.
Better Decisions.

www.aquaticinformatics.com

Efficient, Accurate, & Defensible Water Data Management

AQUARIUS is the leading software for water time series data management. The world's most advanced environmental monitoring agencies trust AQUARIUS to achieve higher data integrity, defensibility, and timeliness. Its simple design delivers the latest hydrological science and techniques in an intuitive interface. AQUARIUS allows water resource managers to correct and quality control time series data, build better rating curves, and derive and publish hydrological data in real-time to meet stakeholder expectations.

QA/QC Your Data in Real-Time

Data consumers want real-time data they can trust. AQUARIUS has a unique portfolio of features for real-time sanity checking, error detection, data cleaning, data flagging, automatic bias corrections and rating shift management. Automated procedures eliminate the majority of the tedious manual data workup processes.

- ✔ Automate QA/QC to produce real-time data end-users can trust
- ✔ Spend time on high value analysis by automating low level data cleaning
- ✔ Get timely email warnings of hydrological events & station health issues

Defend Your Data Easily

AQUARIUS automatically builds a data processing, correction, and editing log, providing the transparency you need to defend your data. The audit log tracks all corrections, metadata, notes, and remarks for time series data. You can review a log to quickly find who performed what, when, and why.
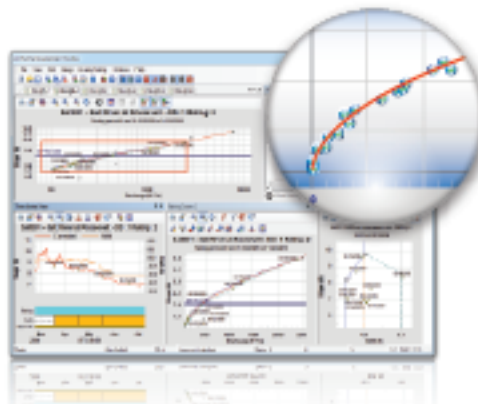
- ✔ Maintain a permanent record of all your original data
- ✔ Lock down data approval & workflow control
- ✔ Apply data grades (quality codes) to time series data

Build Better Rating Curves

The AQUARIUS rating development tool is engineered to support the latest global standards set by the USGS, ISO, WMO, and OGC. It is used by national agencies like the USGS to efficiently develop accurate and legally defensible ratings and ensure the highest confidence in their calculations of flow.

- ✔ Visualize gauging measurements from AquaCalc, ADCP, & more
- ✔ Focus on hydrologic & hydraulic relations, not curve fitting
- ✔ Shift ratings to account for conditions like scour, fill, weeds, & ice

Import & Centralize Your Environmental Data

AQUARIUS enables water resource managers to centralize vast amounts of hydrologic time series data, discrete measurement data, and complex river gauging measurements from various sources. AQUARIUS makes it easy to integrate, import, and enter data quickly, so you can effectively manage all your environmental information in one place.
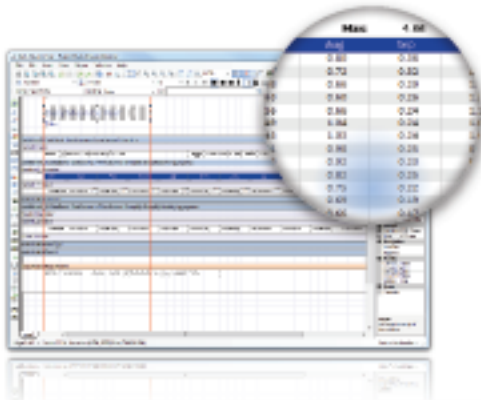
- ✔ Import data logger files such as Sutron, PDAS, Vedas, YSI, Text, & CSV
- ✔ Import gauging measurements such as Flowtracker, ADCP, & AquaCalc
- ✔ Automate data imports & integrate with telemetry like GOES

Apply Complex Calculations & Models in Real-Time

A powerful set of processing tools automate workflows and streamline data production. For example, AQUARIUS can mix data input sources, build sophisticated multi-input models, run rating curves, calculate daily aggregates, and automate notifications and publishing in real-time.

- ✔ Combine data from multiple inputs like GOES Satellite & radio telemetry
- ✔ Derive data via ratings & custom calculations or scripts automatically
- ✔ Statistically derive one time series from another, such as daily averages or totals from 15 minute data

Customize Your Reports & Publish to the Web

AQUARIUS allows you to publish your data based on an extensive list of industry standard report templates. You can also use the integrated report template builder to customize and create your own reports. Reports can be run ad hoc or on a schedule.

- ✔ Quickly turn raw hydrometric data into publication-ready reports
- ✔ Generate customized report templates
- ✔ Deliver on the water information requirements of your end users

Deploy Successfully with Unmatched Services & Support

Comprehensive deployment, training, and support resources guarantee a smooth transition. A team of experts help migrate data from legacy systems and integrate AQUARIUS with existing systems. Users get access to the best training resources and customer service in the industry.

- ✔ Ensure 100% adoption with on-site training, live webinars, & online videos
- ✔ Get unlimited telephone access to experienced support desk personnel
- ✔ Get support with data migration from legacy in-house or commercial systems

AQUARIUS is the Preferred Solution for Hydrometric Data Management - It is Software You Can Trust

Water Survey of Canada - 2,400 Stations

AQUARIUS is used to centralize and manage data from over 2,400 stream gages across 28 field offices. WSC is leading the way in the end-to-end re-design and re-engineering of its processes, products, and services and is using AQUARIUS for effective real-time, continuous data production. Over 200 WSC hydrographers rely on AQUARIUS as their hydrometric data production and management platform.

US Geological Survey - 8,000 Stream Gages

The USGS chose AQUARIUS for use by 3000 employees of the Water Resources Division to more efficiently manage water time series data nationally. By moving to the most modern commercial environmental time series data management platform, the USGS will increase data consistency, comparability, and reliability. Since 2005, the USGS has relied on AQUARIUS to correct time series data and develop accurate rating curves, saving $3M annually through increased efficiencies (USGS National Streamflow Information Program Fact sheet 2007). By utilizing the full AQUARIUS system, the USGS anticipates dramatically increasing their time series data management efficiency.

Hundreds of national agencies, state, regional and local water authorities, hydropower operators, mining companies, consulting organizations, and academic groups around the world trust AQUARIUS Software. Thousands of hydrologists and scientists rely on AQUARIUS every day.

View an AQUARIUS Demo Video Online
www.aquaticinformatics.com