



CMC Updates

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COVID-19 Updates

- Monitoring has continued!
- Trainings shifted to virtual formats where possible
 - Live webinars, static training videos, one-on-one virtual demonstrations, small group in person demonstrations
- Volunteerism is increasing



Chesapeake Data Explorer

531,368 Data points

2,745 stations

7 Bay jurisdictions

110 Organizations

<https://www.cmc.vims.edu>

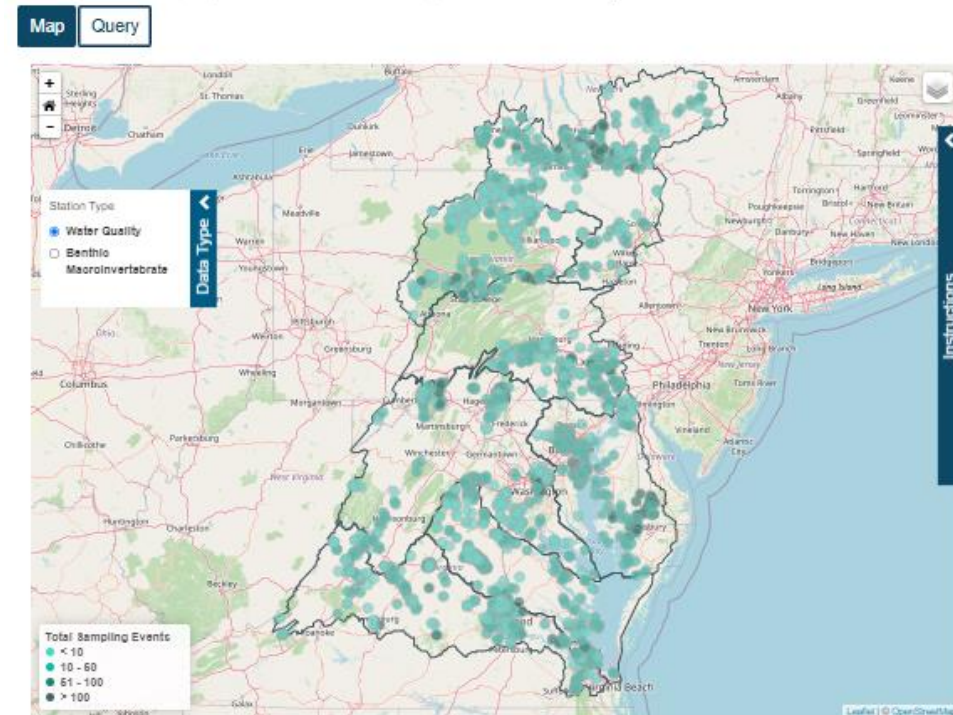
Welcome to the Chesapeake Data Explorer!

The Chesapeake Data Explorer is a tool for storing and sharing data collected by a network of water quality and benthic macroinvertebrate monitors working with the [Chesapeake Monitoring Cooperative](#). These data are publicly accessible and are shared directly with the Chesapeake Bay Program and other data users.

Data are identified by method and quality assurance level using the [CMC tiered framework](#) and are owned by the data provider(s) and not the Chesapeake Monitoring Cooperative. Data users are:

- Responsible for [properly citing](#) the original data provider. Contact information for data providers can be found [HERE](#).
- Responsible for using provided data in a manner consistent to the quality assurance of the provided data.

Use the **Map tab** to view Water Quality or Benthic Macroinvertebrate data throughout the watershed. Use the **Query tab** to download data and metadata files.



Database Statistics

The summary statistics below provide an overview of the current scope of the Data Explorer.



Current Tier 3 Groups

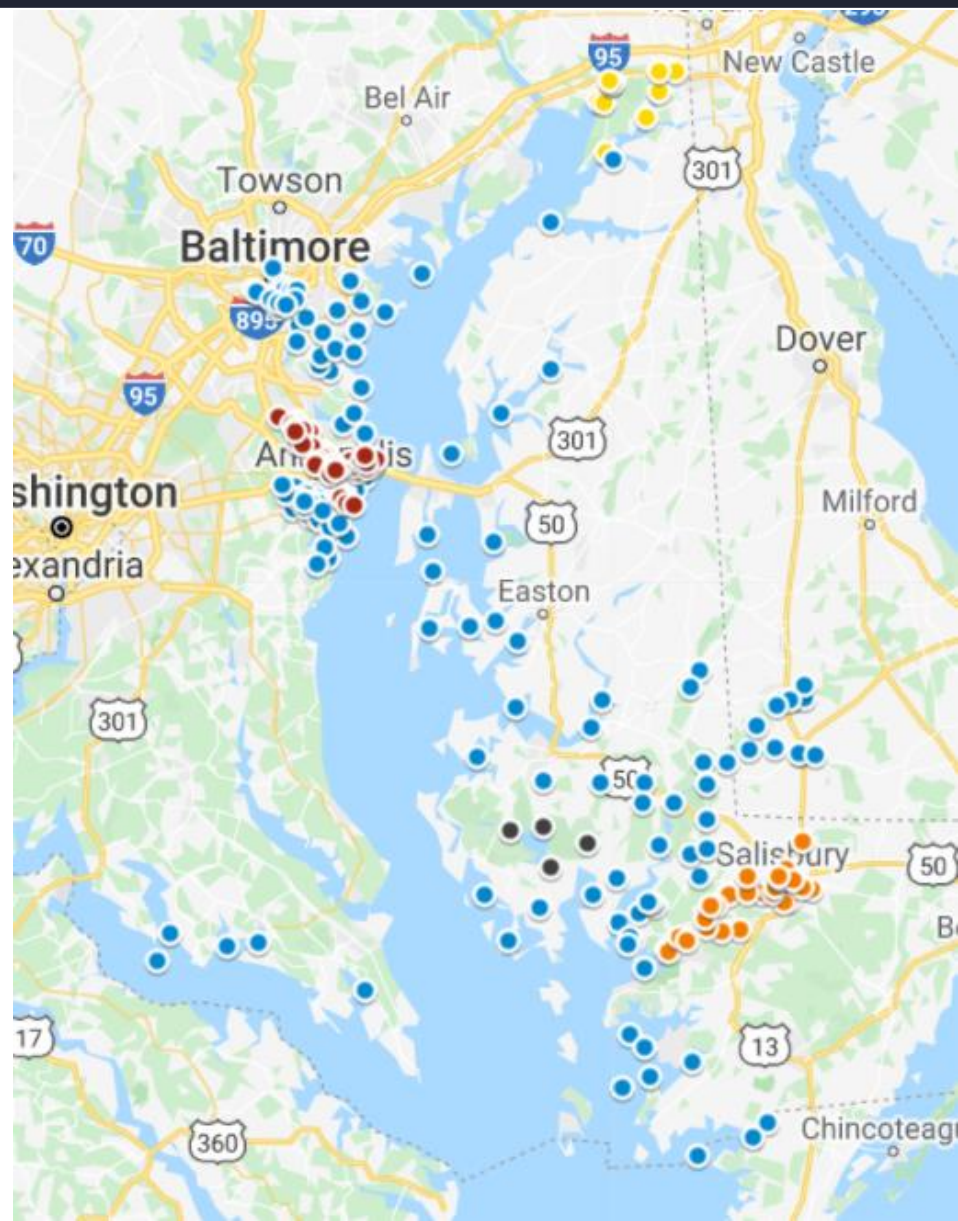
- Nanticoke Watershed Alliance -2020 QAPP
- Blue Water Baltimore – 2021 QAPP
- Arundel Rivers Federation – 2021 QAPP
- MDE Shellfish – 2019 QAPP

Upcoming Tier 3 Groups

- Anne Arundel Community College
 - Lab (bacteria, TSS, Chl a, Nutrients) and field monitoring (surface and bottom measurements)
 - Draft QAPP almost complete
- Severn River Association
 - Field monitoring only (depth profiles)
 - Starting a draft QAPP now

Potential Tier 3 Groups

- Blue dots are current T3 Groups
- Yellow – ENERWA
- Red – SRA
- Black – Blackwater
- Orange - Wicomico



QAPP Calibration Updates

| Parameter | Equipment | Calibration Standard | Acceptable Range |
|-----------------------------|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| Conductivity (TDS/salinity) | Probe | It is preferred to do a two-point calibration bracketing the average conductivity field value range. A one-point calibration within the typical conductivity field value range is acceptable. | +/- 5% of the standard |
| Dissolved Oxygen | Probe | 100% saturation | +/- 0.3 mg/L 95%-105% |
| pH | Probe | It is preferred to do a two-point calibration bracketing the pH field value, always using pH 7 buffer (either 7 and 10 OR 7 and 4). If the pH field value is outside of the calibration bracket, the post-sample check should be completed with the third buffer solution. | +/- 0.20 of standard |
| Temperature | Thermometer | Verification against a standard NIST thermometer in cold (0-4°C), room temp (18-22°C) and warm (30-35°C) water. | +/- 0.20 °C |