#### Mid-Atlantic Regional Air Management Association

# Overview & Updates

AAPCA Spring Meeting May 1, 2025

Marc A. R. Cone (MARC), P.E. Executive Director



#### Our Members

- Allegheny County
- Delaware
- District of Columbia
- Maryland
- New Jersey

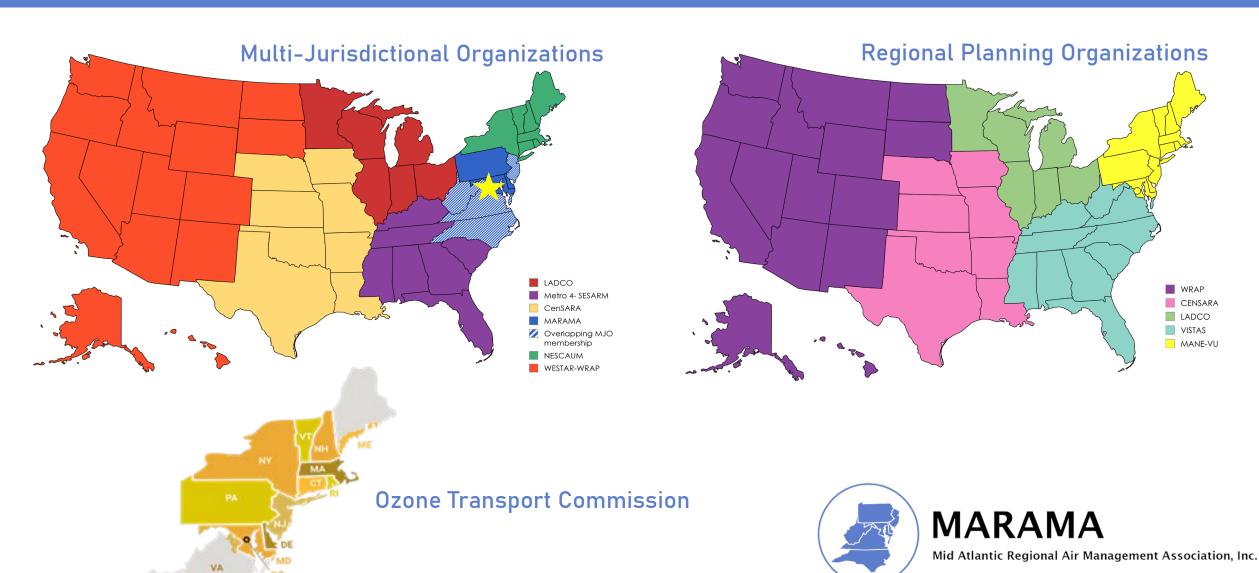
- North Carolina
- Pennsylvania
- Philadelphia
- Virginia
- West Virginia

MARAMA also provides technical support to the Ozone Transport Commission (OTC) and we are a member of the Mid-Atlantic Northeast Visibility Union (MANEVU)





#### Geographic Coverage of MARAMA & Our Partners



#### Mission and Priorities

- Training: Virtual, In-Person and Hybrid Events
- Technical Support Inventory Development
- Coordination and Collaboration
- Benefits of Beyond Our Borders





#### Our Primary Regional Air Quality Challenge

- Ozone attainment
- Areas of particular concern:
  - I-95 Corridor
  - DC-Baltimore-Philadelphia
  - Northern New Jersey
  - New York City
  - Coast of Connecticut
- Exacerbating factor: Wildfires



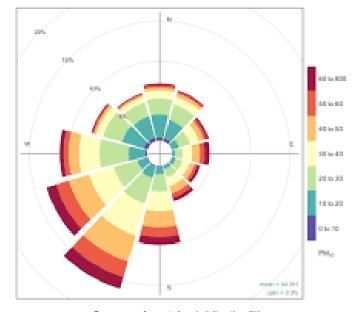


#### **Inventory Collaboration**

- Critical for Ozone, Regional Haze and PM<sub>2.5</sub> SIP Development
- Dr. Susan McCusker (MARAMA) manages several inventory workgroups
- MARAMA also continues to update our inventory tools to provide EPA and SLTs the best data possible for planning purposes

#### Enhancing Air Quality Analysis with R

- Coordinating R trainings
  - 2019: Introductory training webinars, 2020 w/WESTAR
  - 2023: R-based Exceptional Event Training w/ WESTAR
  - 2024: Basic R Training Series
  - 2025 (upcoming): Advanced R Training Series
- Facilitating ongoing MARAMA R-Exchange Workgroup
  - Co-led by Min Zhong (PA DEP), Jessica Munyan (NJDEP), & Jesse Carpentier (MARAMA)
- Fostering the continued development and sharing of powerful R-based tools, including those that support EE demos
  - Ozone predictive tool (by Min Zhong, PA DEP) winner of AAPCA Best Practices Award!

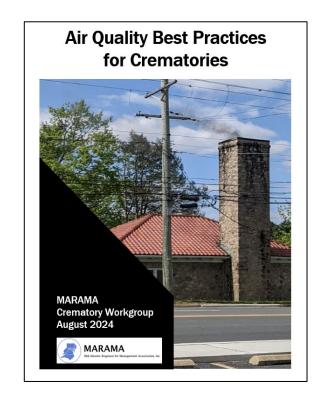


Frequency of counts by wind direction (%)



#### Crematory Workgroup

- Led by MARAMA's Alex Garsteck
- Minor Sources Big Headaches
- Agencies from MARAMA, Metro4/SESARM, and NESCAUM shared their experiences
- Interesting conversations....
- Creating a Best Practices Document that covers Permitting, Compliance, and Emission Factors





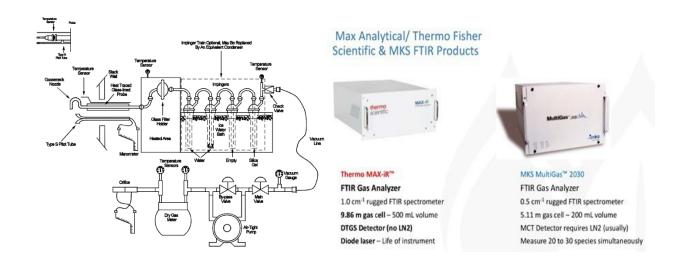
#### Recent Permit Training

- MARAMA-Metro4/SESARM Collaboration
  - PSD/NSR/Title V Permitting
  - Providence Engineering
  - Regulatory, Consultant and Source Perspectives Provided
- MARAMA has also provided Technical Writing Classes to support permitting as well as planning staff



### Stack Testing Training

- PA DEP requested Methods 1-5, and FTIR Methods 318, 320 and 321. Led by MARAMA's resident stack tester Alex Garsteck
- Montrose Air Quality Services
- Hands-on two day in-person class

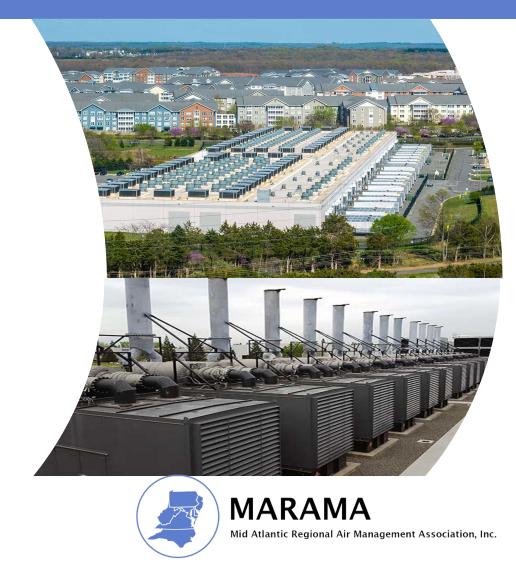






#### Webinars on Emerging Issues

- Dec 2024: Electric Grid Operations and Air Quality
- Mar-Apr 2025: Data Centers and Air Quality Series
  - 1. Introduction to Data Centers
  - 2. Permitting Challenges and Pathways
  - 3. Compliance and Enforcement
  - 4. Impacts on the Grid and Modeling Considerations



### MJO Joint Meetings

- May 2023 held a joint MARAMA/NESCAUM meeting which preceded an OTC air directors meeting
- December 2023 MARAMA Monitoring workshop in Pittsburgh included our neighbors from Ohio.
- November 2024 MARAMA Monitoring Workshop in conjunction with the Metro 4/SESARM Region 4 meeting in Richmond, VA



### Upcoming MARAMA Workshops

- July 28-30: Landfill Workshop Wilmington, Delaware- Hybrid for classroom and the event will finish with a landfill site visit.
- December 8-11: Monitoring Workshop Hybrid Event- more to come...
- Considering a permitting and compliance workshop in 2026





### Regional Haze Regulatory Changes

- 2024 Regional Haze Regulatory Proposals
- MARAMA and MANEVU agencies are in favor of extending the third planning period.
- MJOs and agencies all look forward to working with EPA on the future considerations to the Regional Haze regulations





### MJOs Supporting Federal Goals

Goal: Clean Air and Making the US the AI Capitol of the World

- MARAMA drives efficient and effective strategies for clean air through:
  - Agency Inventory Collaborations
  - Exceptional Event Demonstration Tool Collaborations
  - Sharing Data Center Permitting and Compliance Challenges
  - Enhanced Permit Training
  - Facilitating the sharing of agency experiences

### MJOs Supporting Federal Goals (cont.)

Goal: Delivering lower cost energy and bringing back manufacturing

- Energy demands will be increasing significantly with data centers and manufacturing
- Timely permitting for new sources is imperative
- Combustion turbine deliveries for low-cost energy production will create short term challenges
- Grid management, cross-agency coordination with utility commissions, and innovation will be needed to deliver lower cost energy solutions in the short term

### MJOs Supporting Federal Goals (cont.)

Goal: Cooperative Federalism and Permitting Reform

- Cooperative Federalism is needed for Inventories, Exceptional Event Demonstrations, and SIP Development
- Cooperative Federalism is also needed for permitting reform
- MJOs and agencies are ready to share their perspectives
- Ultimately, we all want to be good stewards of air quality and we need the tools to make that happen



## Thank you!

