

Mid Atlantic Northeast Visibility Union (MANEVU)

AAPCA Fall Meeting
September 2023

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MANEVU Update

Who is MANEVU?

Class 1 Areas

Regional Haze Metrics

20% Worst Days

Northeast Progress

Template for Second Period
Progress Report

MANEVU Asks

Canadian Wildfire Impacts

Regional Planning Organizations



Mid Atlantic Northeast Visibility Union

- **Coordination**
- Northeast States for Coordinated Air Use Management (NESCAUM)
 - Executive Director- Paul Miller
- Ozone Transport Commission (OTC)
 - Executive Director- Paul Miller
- Mid Atlantic Northeast Visibility Union (MANEVU)
 - Executive Director- Paul Miller
- Mid-Atlantic Regional Air Management Association, Inc. (MARAMA)
 - Executive Director- Marc Cone

Mid Atlantic Northeast Visibility Union

- States- Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, Connecticut, New York, New Jersey, Pennsylvania, Maryland and Delaware
- Ongoing Technical Work
 - ✓ Inventories, Updating metrics data

Northeast Class 1 Areas



MAINE

- Acadia National Park
- Moosehorn Wilderness Area
 - Edmunds Unit
 - Baring Unit

NEW HAMPSHIRE

- Great Gulf Wilderness Area
- Presidential Range – Dry River Wilderness Area

VERMONT

- Lye Brook Wilderness

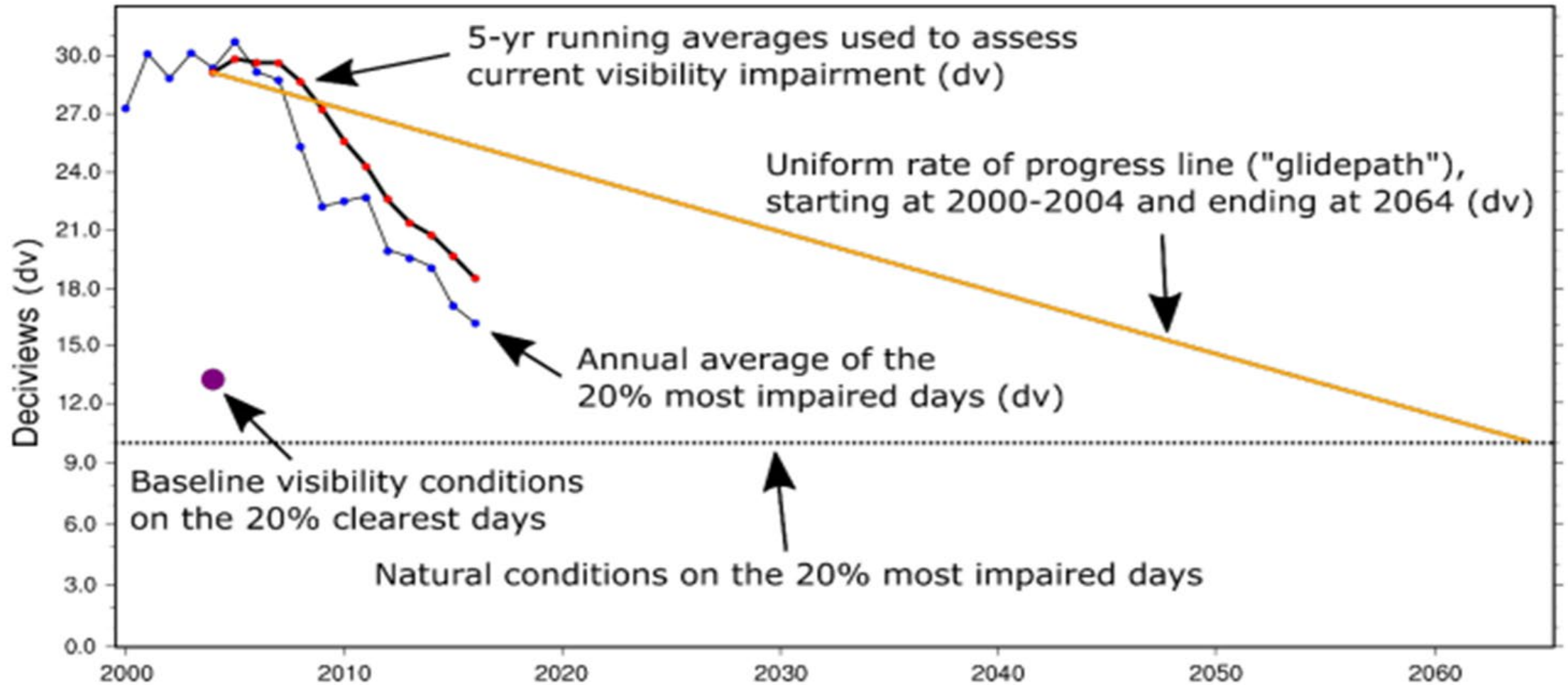
NEW JERSEY

- Brigantine Wilderness Area

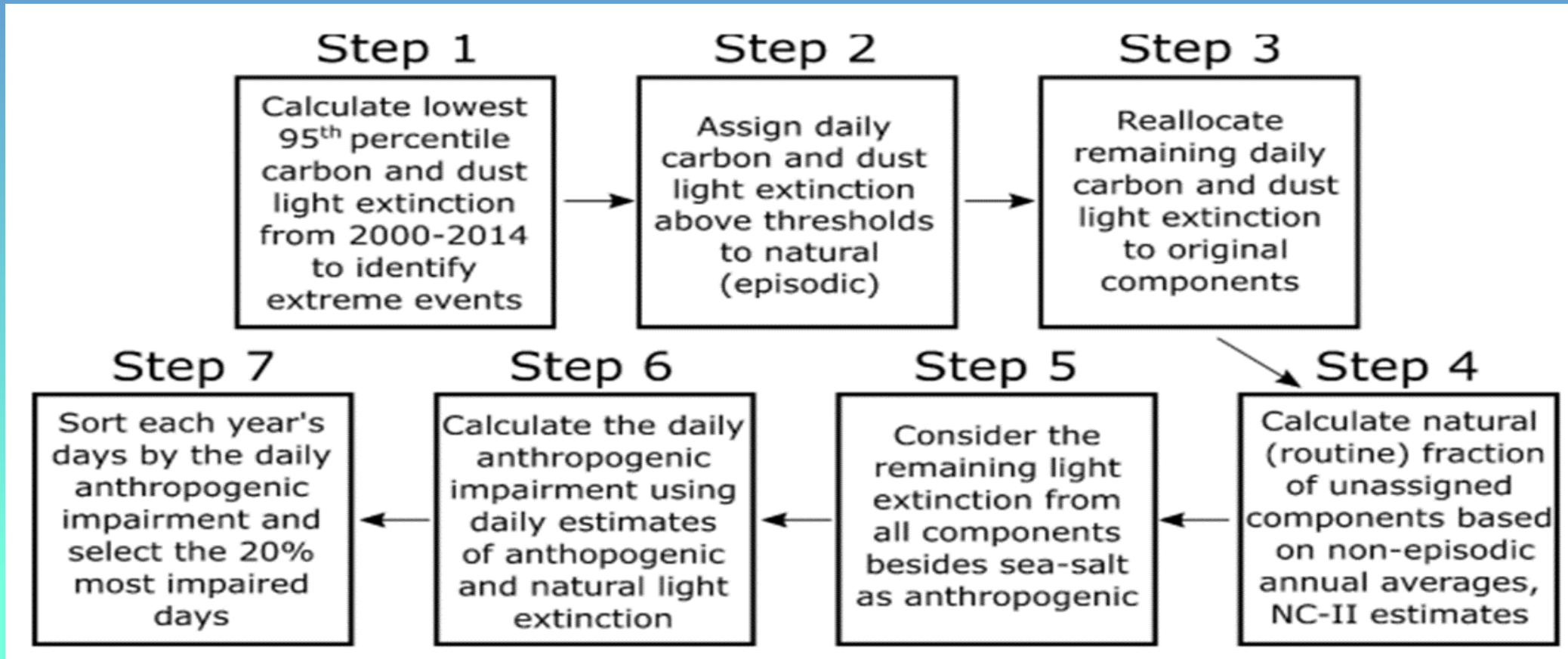
NEW BRUNSWICK CANADA

- Roosevelt Campobello International Park

Regional Haze Metrics

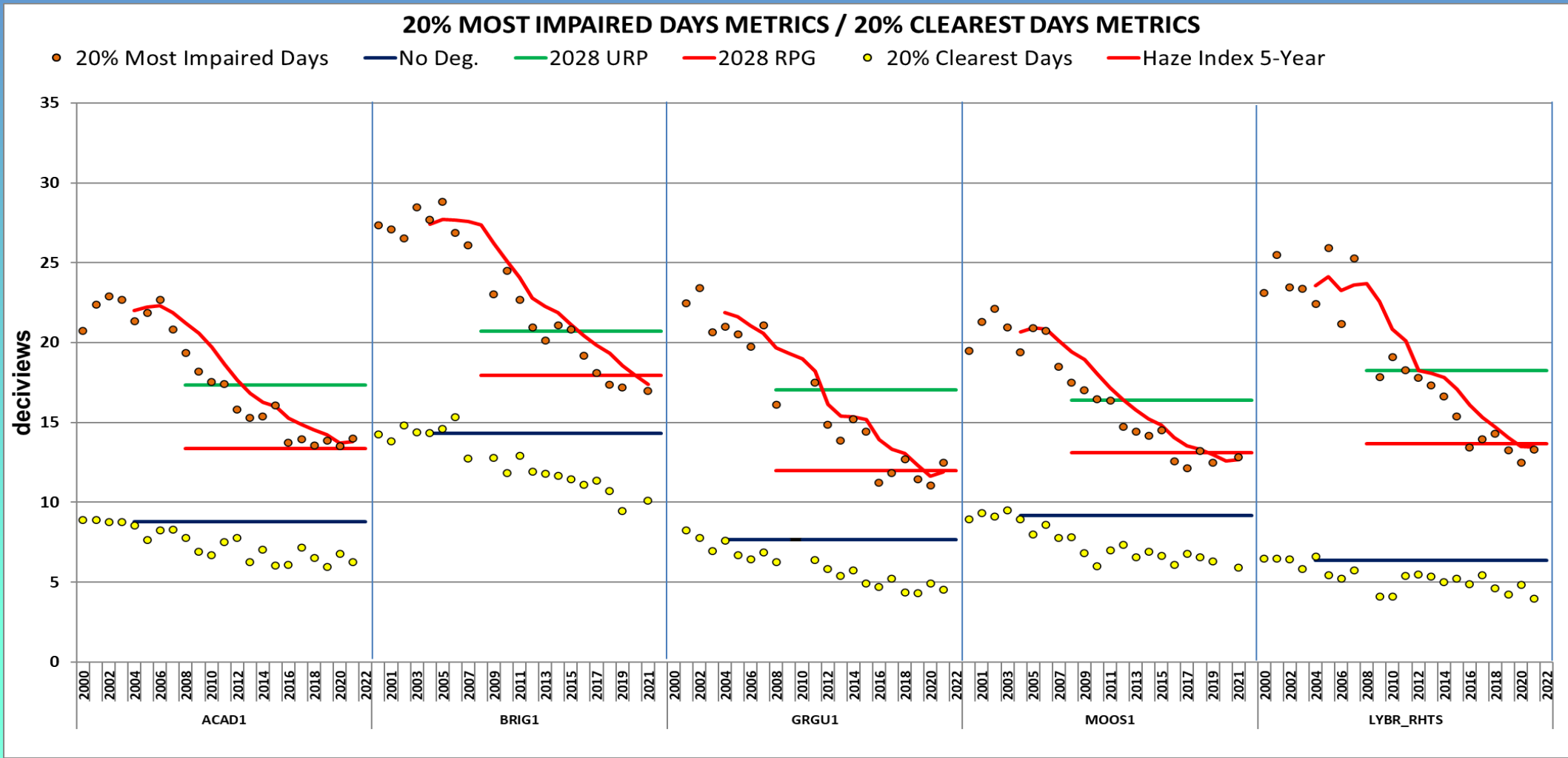


How are 20% most impaired days selected? Details for each step are in the December 20, 2018 guidance document (see link below).

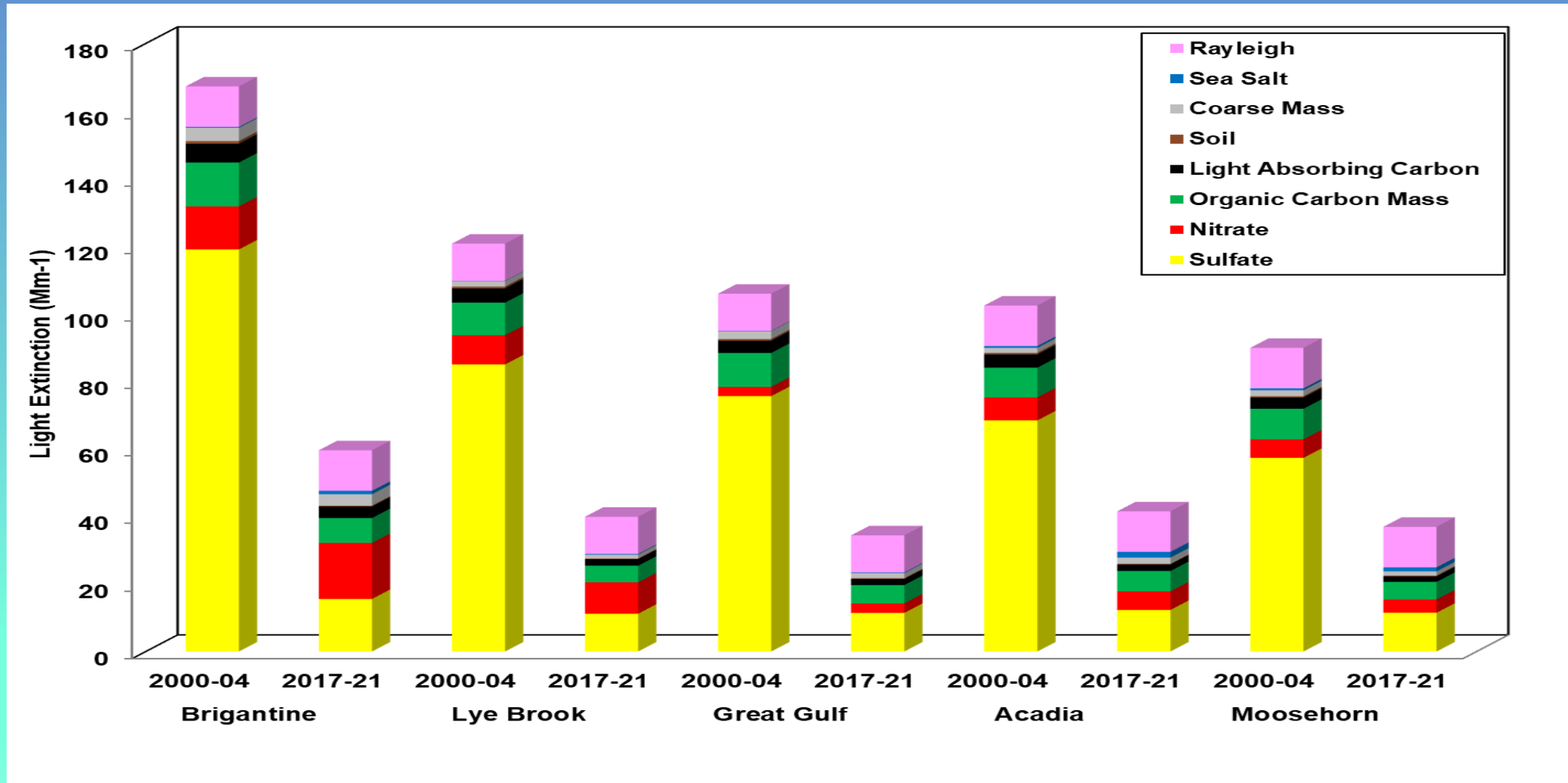


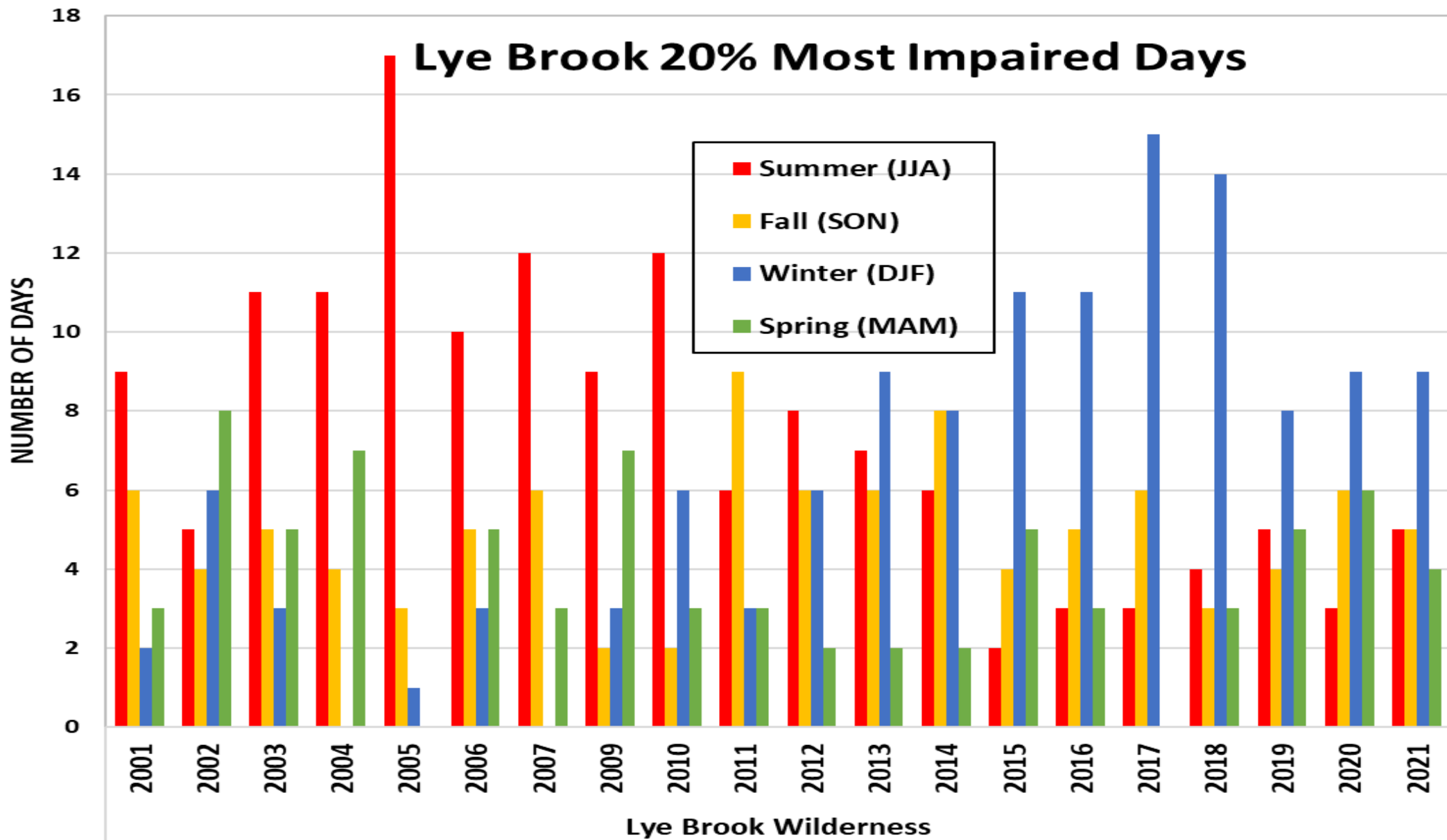
Daily anthropogenic visibility impairment (deciviews (dv)) = $10 \times \ln(\text{daily total light extinction}/10) - 10 \times \ln(\text{daily natural light extinction}/10)$

Progress Through 2021 Data

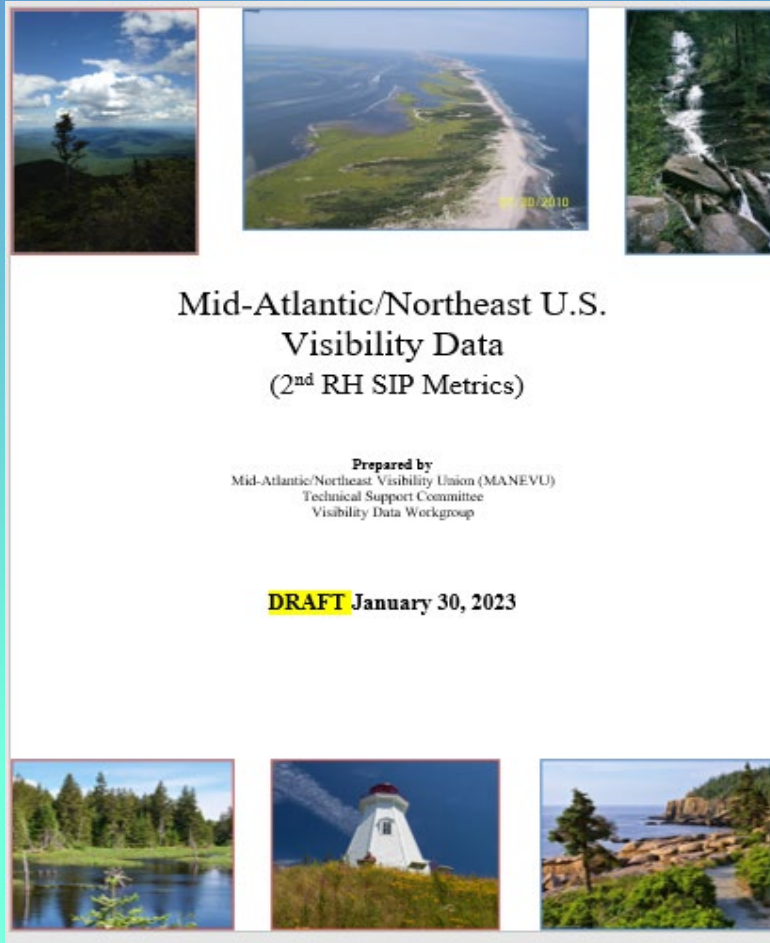


20% Most Impaired Day Analysis: Base 2000-2004 vs. 2017-2021





2021 Visibility Metrics Report and Regional Haze Progress Report Template



Proposed Template Timeline:

Review by full TSC by mid-September

Provide to Air Directors: finalize in Oct.

**Progress Report due to EPA
January 31, 2025**

**Visibility Metrics Report posted
on MANEVU website**

**Begin review of 2022 IMPROVE
Data end of 2023**

State Consultations 40 CFR 51.308 (d)(1)(iv)

- Requires states with Class 1 areas to develop Reasonable Progress Goals in consultation with any state that may reasonably cause or contribute to visibility impairment in the Class I areas.
- When disagreements arise, the Administrator will take this into account when determining whether the goal for visibility improvement provides reasonable progress towards natural visibility conditions
- MANEVU, for the first period, met with states; for the second period, the States issued Asks for inside, outside and of EPA.

Draft MANEVU Asks Under Consideration

Within and Upwind of MANEVU Region

- NOx limits on ICI boilers?
- Non-EGU sources?
- NOx emissions in the winter
- Lower sulfur Nos. 4 and 6 fuel oil
- Complete previous Asks not already done

US EPA

- Diesel anti-tampering enforcement
- Residential Wood Heater certification program fixes
- Aftermarket catalysts
- Residential Wood Heater certification program fixes
- Complete previous Asks not already done
- New threshold metric for 4-factor analysis?

Modeling Efforts

- Regional Haze Planning Period 3 Due 2028?
- Planning organizations are starting to plan now
- Is there an opportunity to work towards a cooperative and consistent modeling approach amongst the planning organizations?
- Will that approach save resources?

Canadian Wildfire Impacts

1. Visible Examples
2. Brigantine Wilderness $PM_{2.5}$ Monitoring
3. Brigantine Wilderness Visual Range

CamNet – Mount Washington, NH

November 11, 2011



July 17, 2023



CamNet – Brigantine Wilderness Area, NJ

July 25, 2012



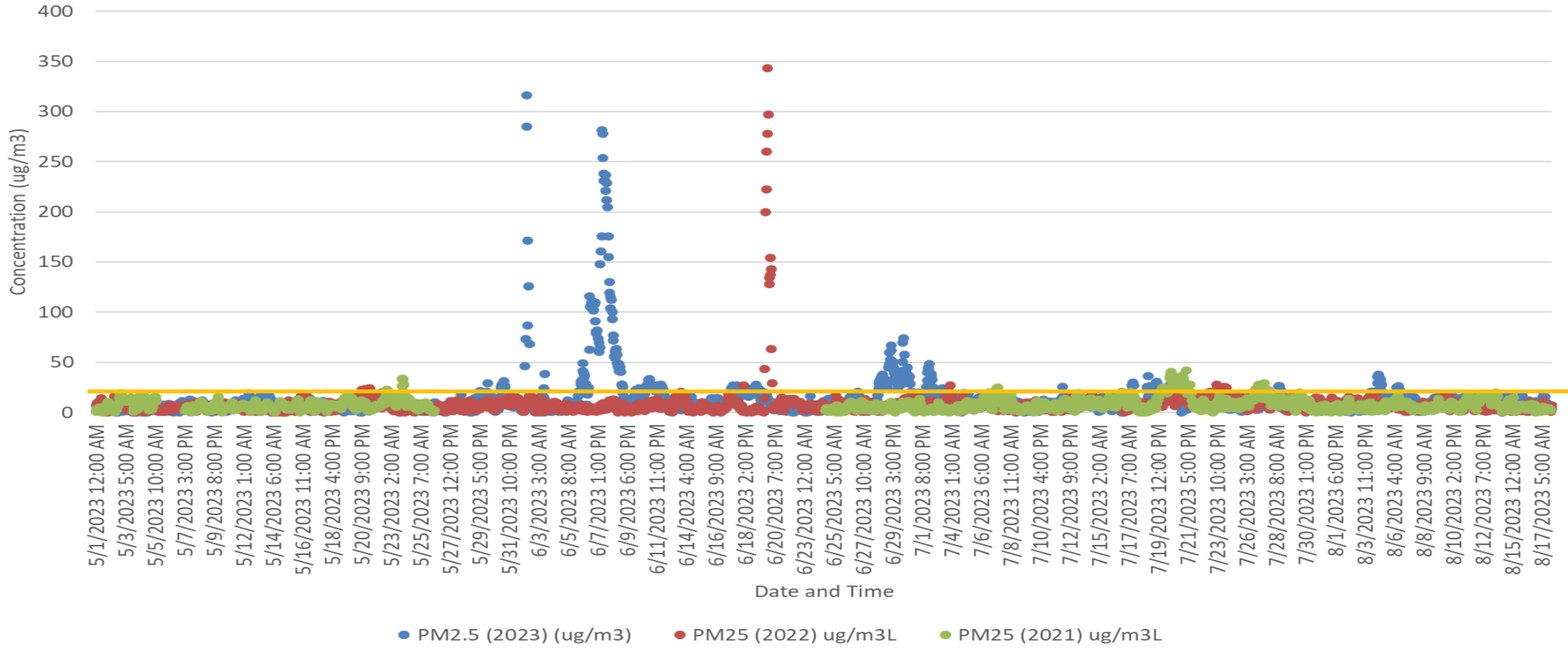
June 7, 2023



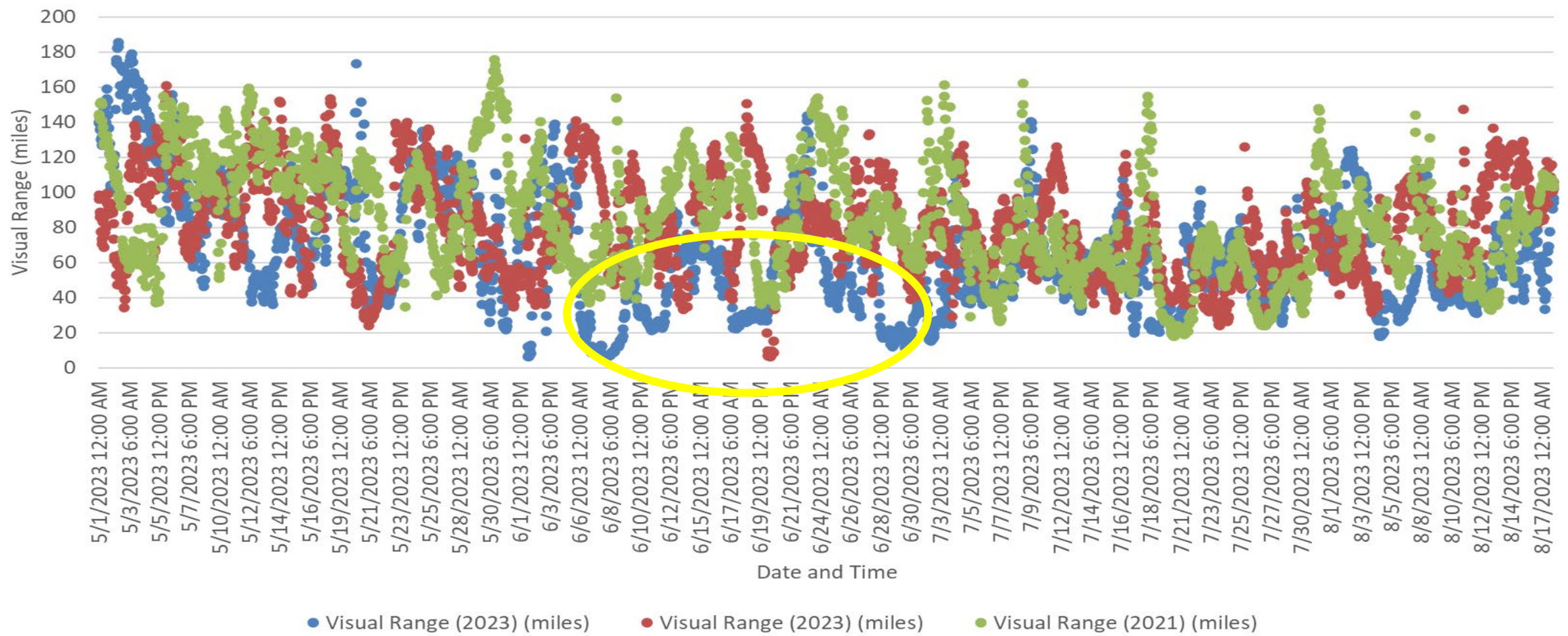
MARAMA

Mid Atlantic Regional Air Management Association, Inc.

Brigantine Wilderness Area
Hourly PM2.5 5/1 - 8/17
2021 - 2023



Brigantine Wilderness Area
Hourly Visual Range 5/1 - 8/17
2021 - 2023



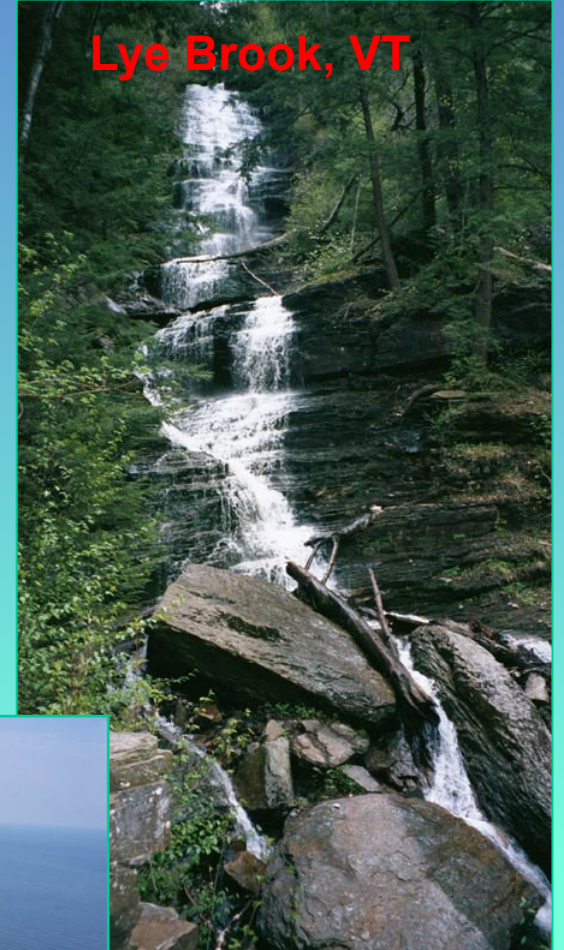
Moosehorn, ME



Acadia, ME



Lye Brook, VT



Campobello, NB



Great Gulf, NH



Brigantine, NJ

