

OTC/MANEVU
STAKEHOLDERS
FALL VIRTUAL
MEETING
SEPTEMBER 13,
2023

MANEVU Technical Support Committee

Co-Chairs Sharon Davis, NJDEP and David Healy, NHDES



Presentation Overview

- TSC Workplan & Timeline
- 2023 OTC/MANEVU Directors Spring Meeting Update
- 2023 OTC/MANEVU Annual Commissioners Meeting Update
- 2021 Updated Regional Haze Metrics
- Canadian Wildfire 2023 impact at Brigantine Wilderness Area
- Future Coordination

Content may not reflect National Geographic's current map policy. Sources: National Geographic, Esri, DeLorme, HERE, UNEF-WCMC, USGS, NASA, ESA, METI, NRCAN, GEBCO, NOAA, incrementF Corp.

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TSC Workplan: 1Q2023 – 1Q2024

TSC Workplan (Calendar Year Quarters)

1Q 2023	2Q 2023	3Q 2023	4Q 2023	1Q 2024
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Deliverable	Activity	Sub-Activity	Notes	Comments	1Q 2023	2Q 2023	3Q 2023	4Q 2023	1Q 2024
TSC General	Update Air Directors	ADs/Committees/Stakeholders	Monthly Calls and Yearly Meetings						
RH Metrics	Complete Annual RH Metrics Plots	Workgroup produces 2021 metrics/plots	2021 plots in 2023; 2022 plots in 2024; 2023 plots in 2025, etc.	See Visibility Workgroup Timeline for specific tasks and timeframes.					
		Present to ADs/Committees/Stakeholders							
	Draft 2021 Metrics report	Final Workgroup review of 2021 metrics report							
		Final TSC review of 2021 metrics report							
Progress report on 2nd rnd RH SIP	Draft Template			40 CFR Part 51.308(g)					
	Complete technical analyses for progress report	Assess status Long-term strategies							
		Assess status of control measures in other states							
		Assess Emissions trends in MANEVU and Contributing States							
		States begin 45 day FLM Review							
		Final Submittal to USEPA		Due 01/31/2025					
TSC General	Update Air Directors	ADs/Committees/Stakeholders	Calls and Meetings						
3rd RH SIP Planning Phase	RPO Coordination	Inventory for 3rd RH Planning	Quarterly Calls	As needed.					
	Request OTC Modeling perform 2038 Projection Run		Will need 2038 projected inventory	Milestone date TBD					

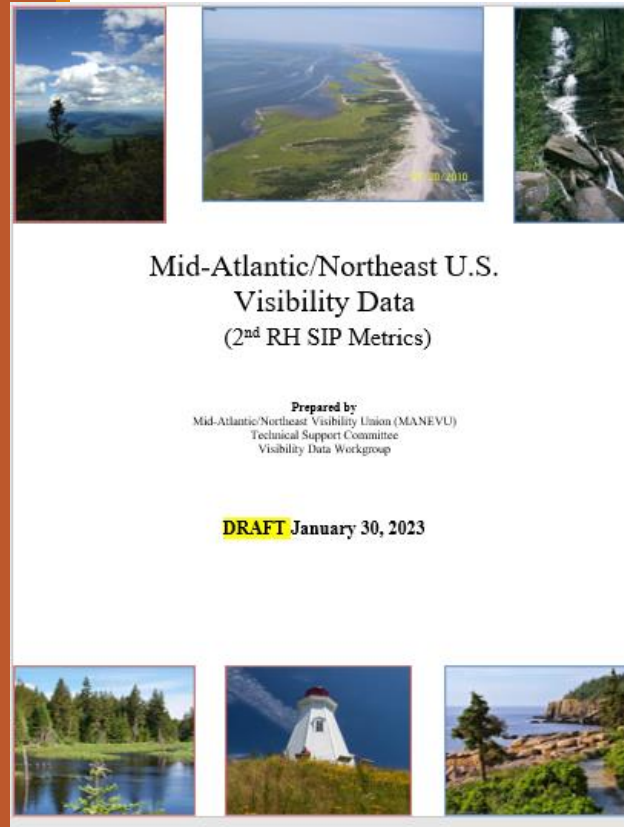
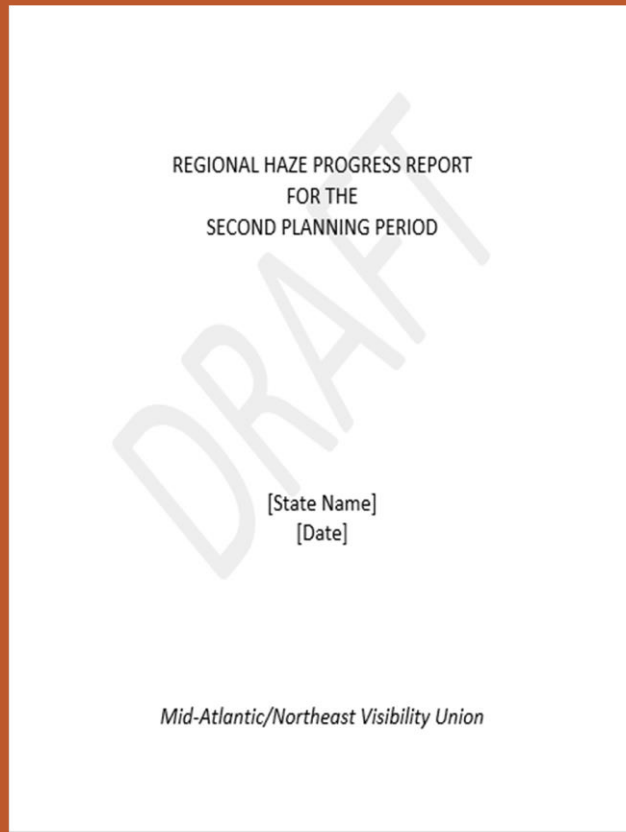
MANEVU Regional Haze SIP Progress

As of September 6, 2023

Complete
In-Progress
Waiting

	IMPROVE Data Analysis	Inventory Development & Analysis	Modeling	Consultation with contributing states	State 4-factor analyses completed	Response to MANE-VU Ask Developed	Long-term strategy developed	Initial draft of SIP developed	State rules drafted (as appropriate)	FLM/EPA consultation	Draft SIP Submittal 60-day Clock Started	Public Hearing/Comment	Final SIP Submittal	At EPA	SIP Approved
CT	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete
DC	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete
DE	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete
MA	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete
MD	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete
ME	Complete	Complete	Complete	Complete	In-Progress	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete
NH	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete
NJ	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete
NY	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete
PA	Complete	Complete	Complete	Complete	Complete	In-Progress	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete
RI	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete
VT	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete

2021 Visibility Metrics Report (VMR) and Regional Haze Progress Report Template (PR)



Review by full TSC by mid-Sept.

Provide to Air Directors: finalize in Oct.

Progress Report due to EPA January 31, 2025

VMR posted on MANEVU website

Begin review of 2022 IMPROVE Data end of 2023

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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

USEPA:

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

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Connecticut

Delaware

District of Columbia

Maine

Maryland

Massachusetts

New Hampshire

New Jersey

New York

Pennsylvania

Penobscot Indian Nation

Rhode Island

St. Regis Mohawk Tribe

Vermont

MANE-VU Class I Areas

Acadia National Park

Maine

Brigantine Wilderness

New Jersey

Great Gulf Wilderness

New Hampshire

Lye Brook Wilderness

Vermont

Moosehorn Wilderness

Maine

Presidential Range

New Hampshire

Multi-Year Charge to the MANEVU Technical Support Committee (TSC)

The TSC is charged to provide regular updates to the Air Directors and report at the June 2023 Meeting on the following activities:

1. Monitor visibility trends, including those needed for 5-year progress reports (due in 2025)
2. Provide regional haze and SIP development training to MANEVU agency staff and other Regional Haze Planning Organizations (subject to available resources)
3. Track research on impacts of emission reductions and changing atmospheric chemistry on effectiveness of future haze measures
4. Cooperatively leverage resources and activities with OTC and NESCAUM to:
 1. Support efforts to reduce emissions of NO_x from on-road trucks;
 2. Provide multi-pollutant perspective of co-benefits from regional haze measures;
 3. Examine winter wood combustion contributions to haze; and
 4. Use remote sensing observations to understand NO_x emissions and lifetimes.
5. Coordinate among MANEVU member organizations, and other Regional Haze Planning Organizations as necessary, to develop templates that will facilitate consistency in MANEVU submittals:
 1. 5-year Progress Report due in 2025
 2. 3rd Regional Haze Planning Period SIPs due in 2028

The TSC is directed to coordinate with the OTC committees, Mid-Atlantic Regional Air Management Association (MARAMA), and Northeast States for Coordinated Air Use Management (NESCAUM), as necessary and appropriate, in carrying out this Charge.

Adopted by MANEVU on June 14, 2023.

Multi-Year Charge to MANEVU TSC

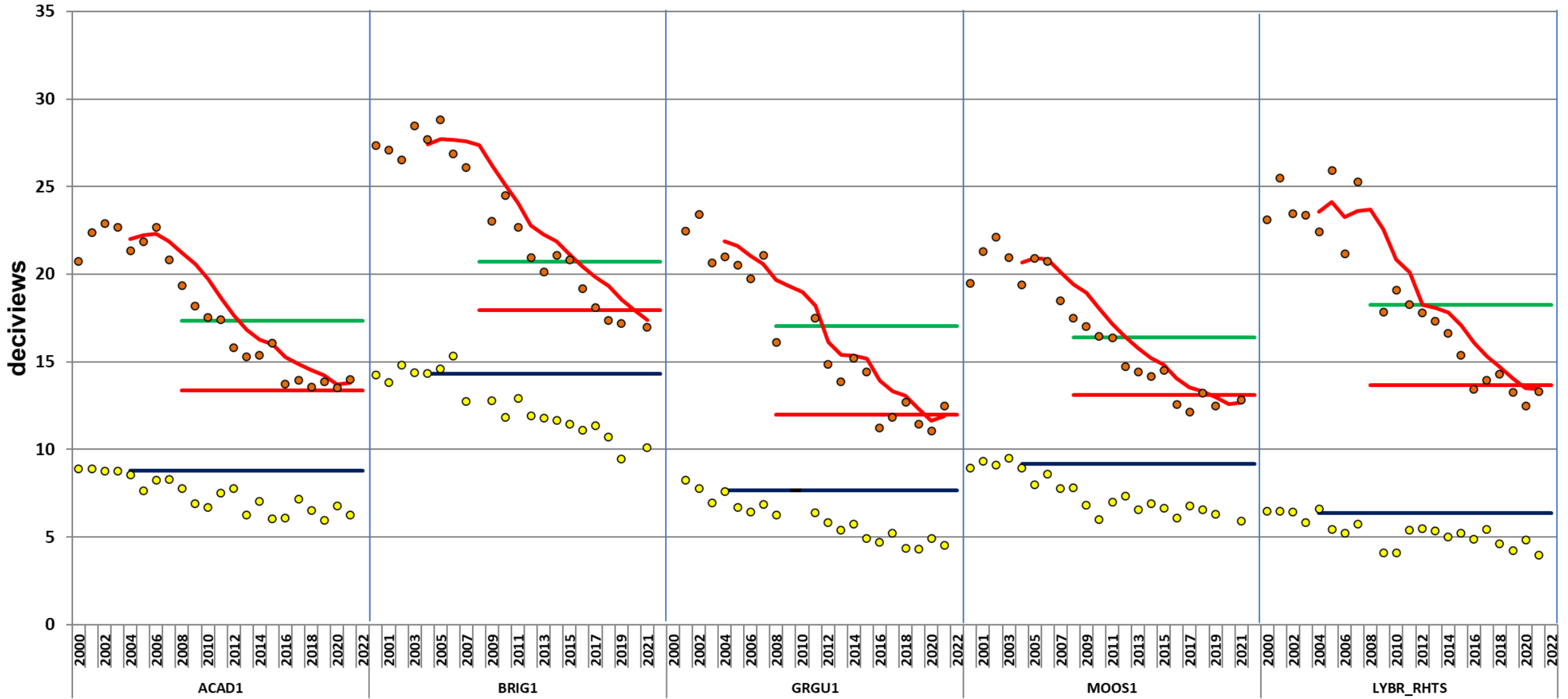
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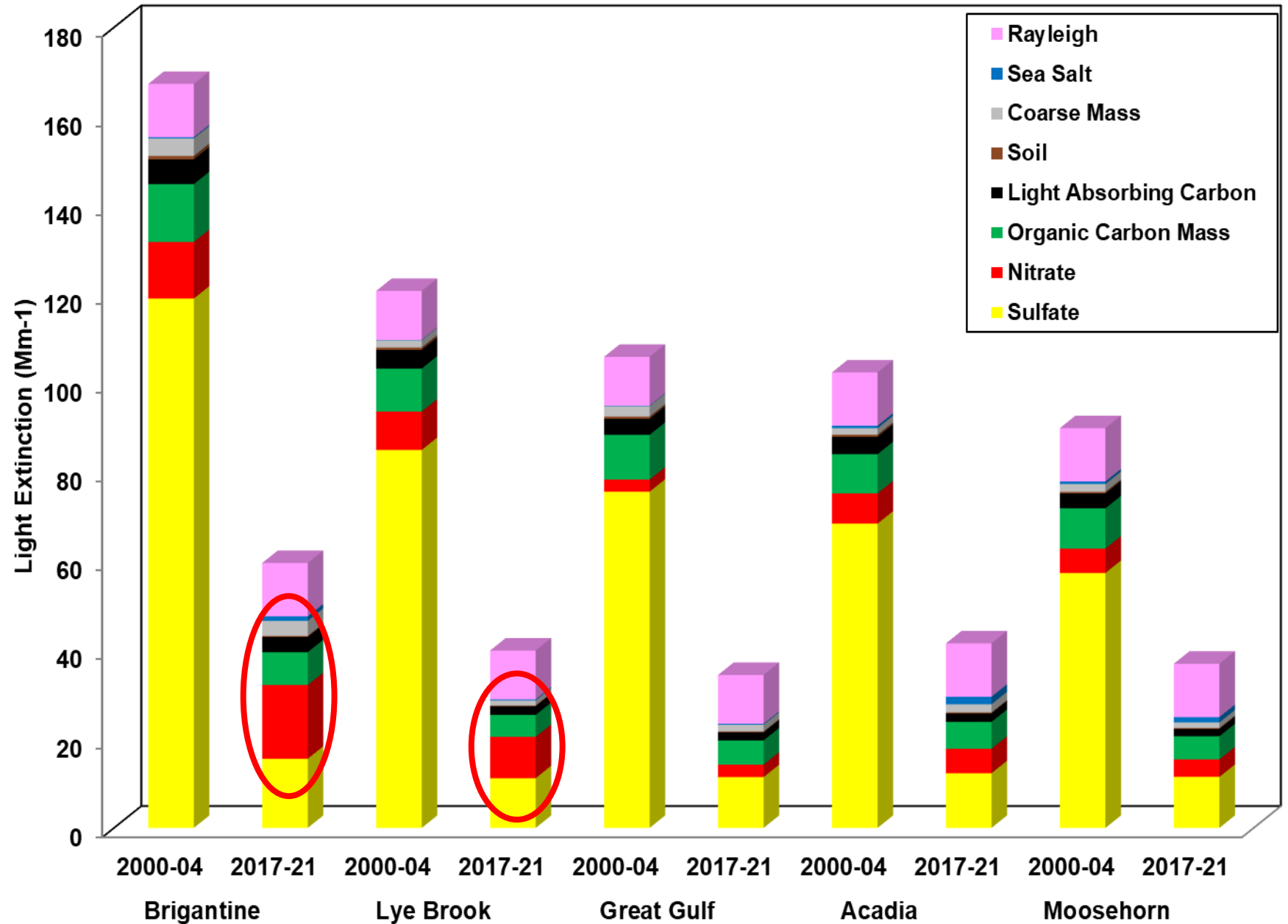
20% MOST IMPAIRED DAYS METRICS / 20% CLEAREST DAYS METRICS

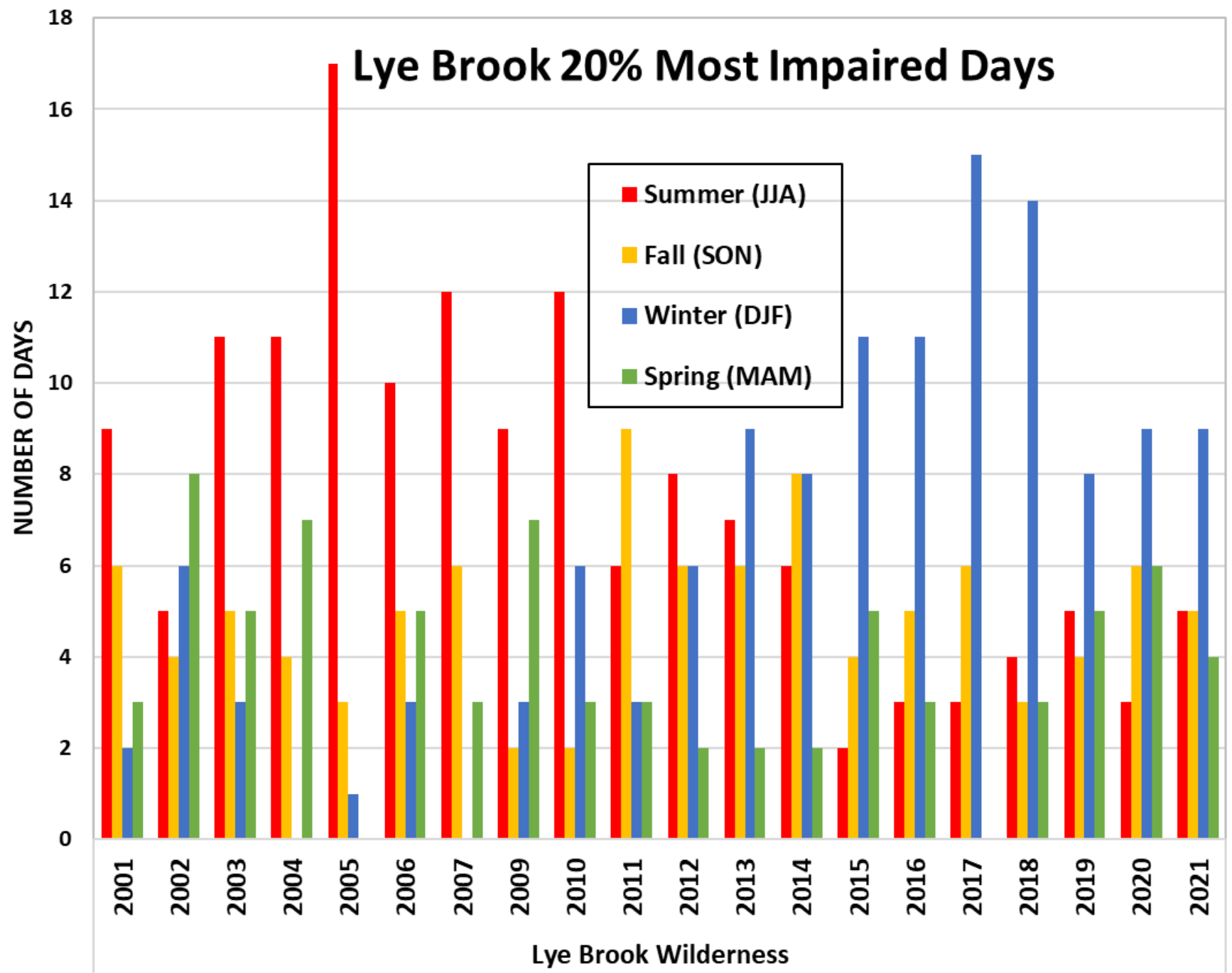
● 20% Most Impaired Days
 — No Deg.
 — 2028 URP
 — 2028 RPG
 ● 20% Clearest Days
 — Haze Index 5-Year



20% Most Impaired Day Analysis:

Base Year (2000-2004)
vs.
Current (2017 - 2021)

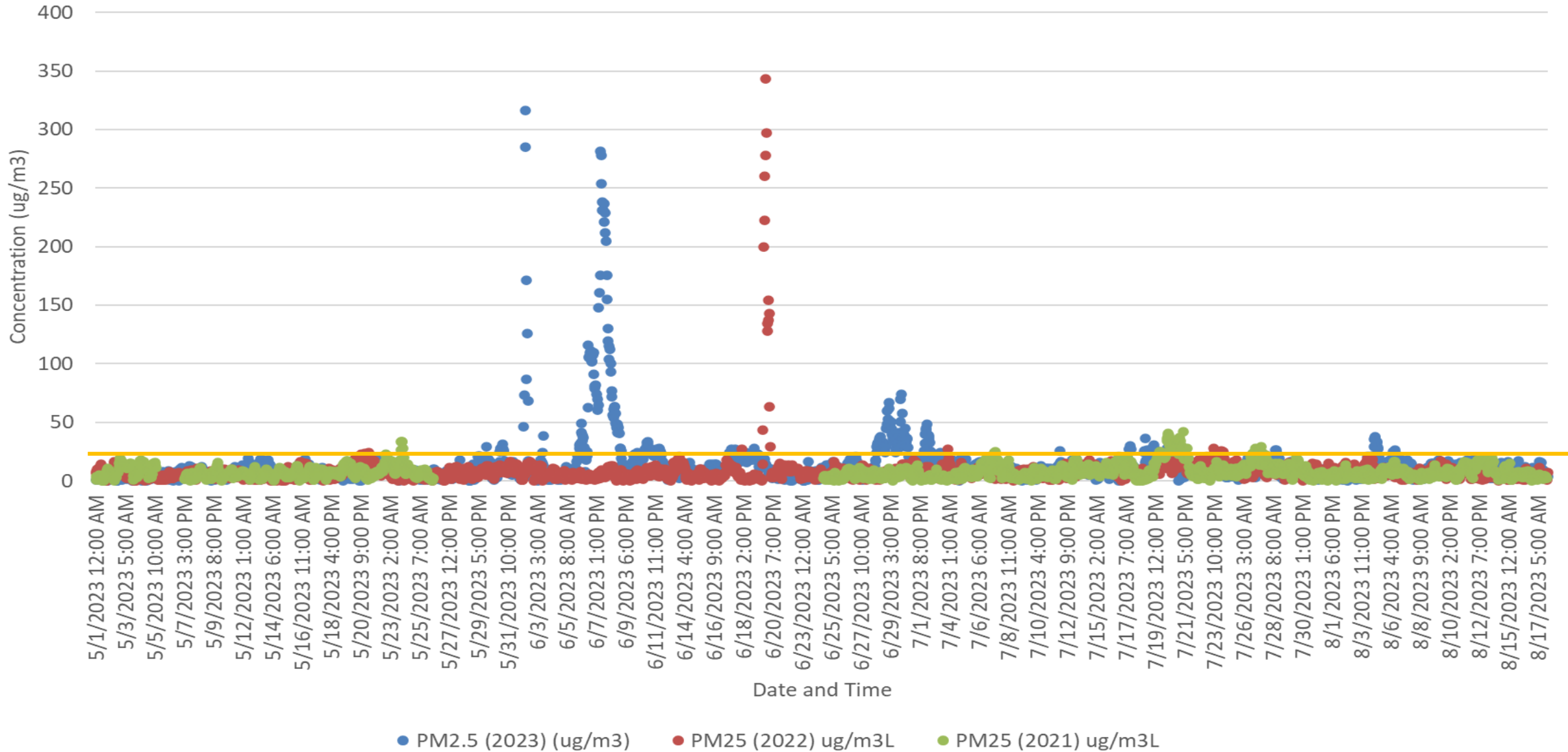




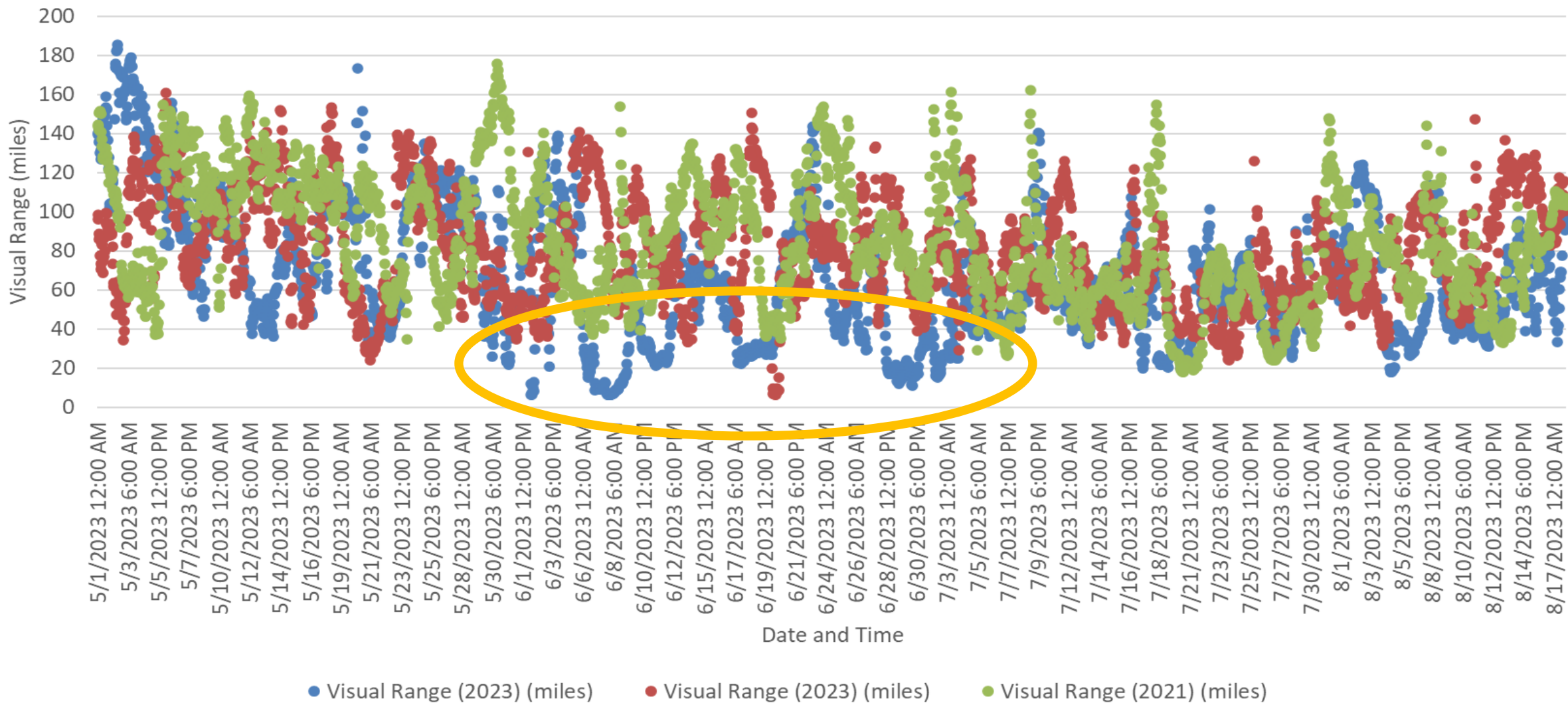
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Brigantine Wilderness Area
Hourly PM2.5 5/1 - 8/17
2021 - 2023



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



CamNet - Mount Washington, NH

November 11, 2010



July 17, 2023



CamNet – Brigantine Wilderness Area, NJ

July 25, 2012



June 7, 2023



Future Coordination

- OTC SAS Committee
 - Emission sources and control measures
- OTC Mobile Sources Committee
 - Track mobile source rulemakings
- OTC Modeling Committee
 - Modeling Inventory/Runs: 2022 BY, 2038 FY, 2038 FYC
 - Co-benefits of regional haze measures

Moosehorn, ME



Roosevelt Campobello International Park, NB



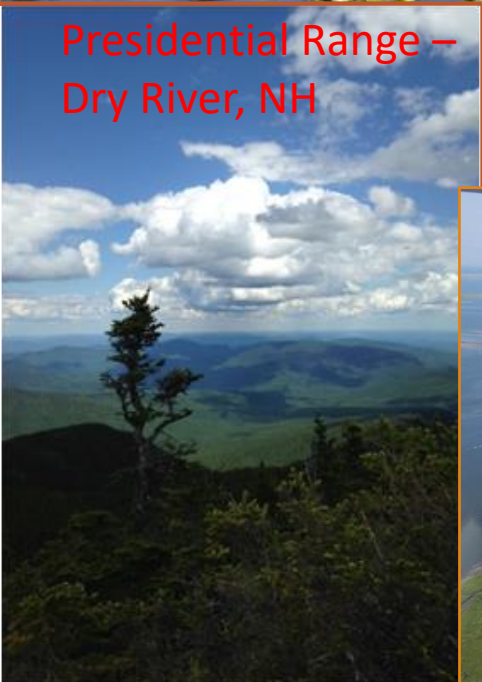
Acadia, ME



Lye Brook Wilderness, VT



Presidential Range – Dry River, NH



Brigantine NJ



Questions? Thank You!

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