



State University of New York College of Environmental Science and Forestry

Newcomb Campus

Stacy McNulty Adirondack Ecological Center

A History of Adirondack Natural Resource Policy Decisions

What Can We Learn From a Retrospective?

Land Acknowledgment - Where We Stand Omàmiwininiwag (Algonquin) Kanien'keháka (Mohawk) Wabanaki ([Onundagaonoga (Onondaga) N'dakina (Abeni / Abénaguis) Ho-de-no-sau-neega (Haudenosaunee)

We have the privilege of speaking today from the ancestral lands of the Mohawk/Akwesasne and the Haudenosaunee Confederacy.

We honor them for their many contributions, including the original philosophy and practice of sustainability and environmental stewardship, and their important contributions to the federal democratic government structure we in the United States value today.

Confede

We extend deep gratitude to these original people, and to the other animals, plants and living organisms of these lands.

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Overview

- Role of monitoring in informing policy
 - AEC as example
- Historical data as a tool for exploring policy decisions
 - Select examples
- Concluding thoughts



Adirondack Ecological Center at Huntington Wildlife Forest

SUNY ESF Newcomb Campus



Adirondack Ecological Center Mission: To provide an understanding of the Adirondack ecosystem through research

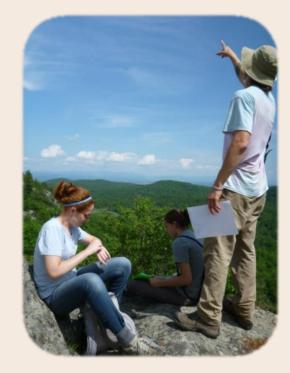




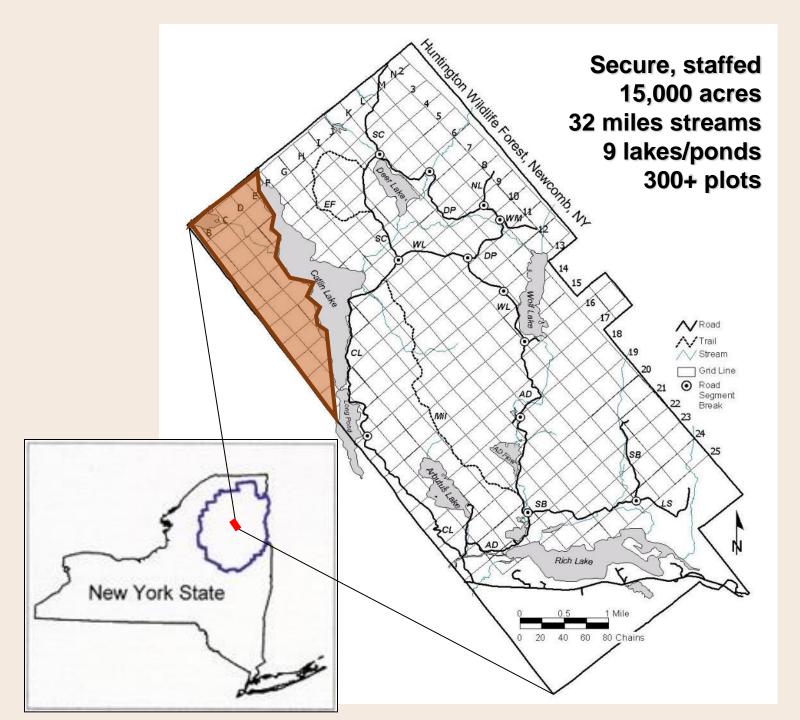
Platform for Student-centered Natural Resource Research, Monitoring & Training







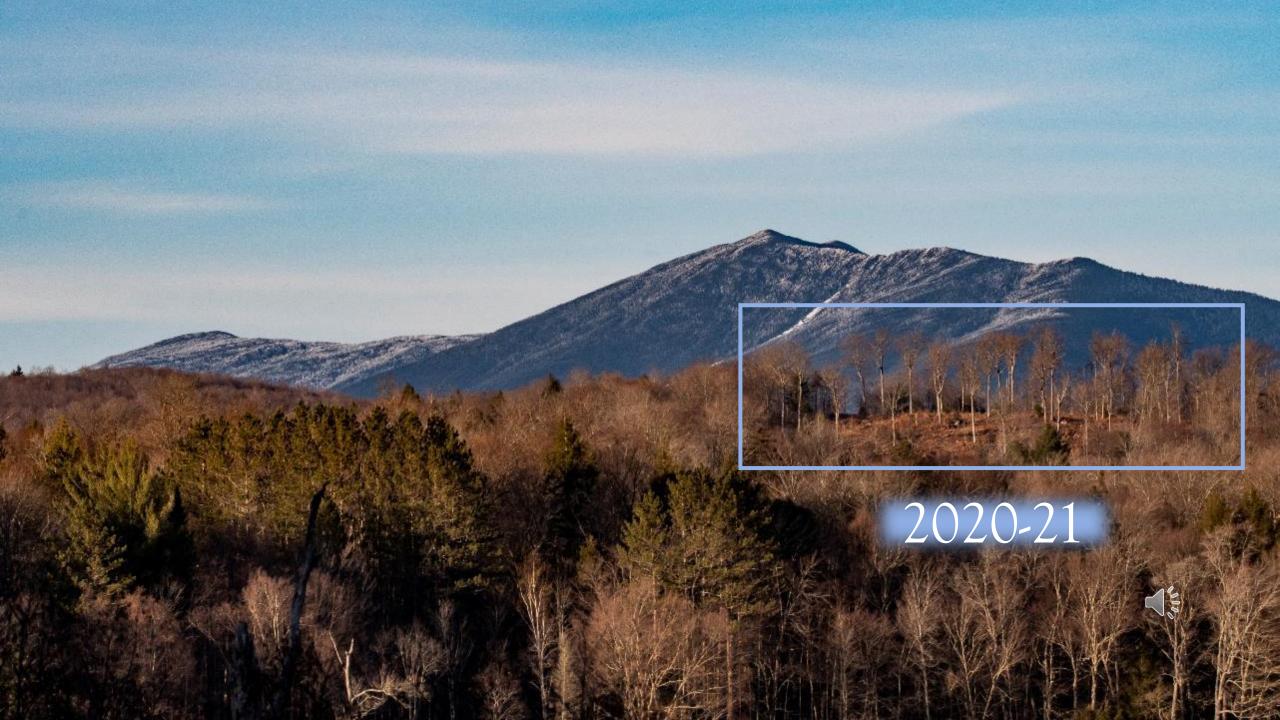




HWF Natural Area

- Old growth forest
 - 971 acres (400 ha)
 - Studied since 1932
- Monitoring includes
 - Songbirds
 - Plant dynamics
 - Small mammals
 - Carnivores
 - Tree seed cycles
 - Carbon
 - More





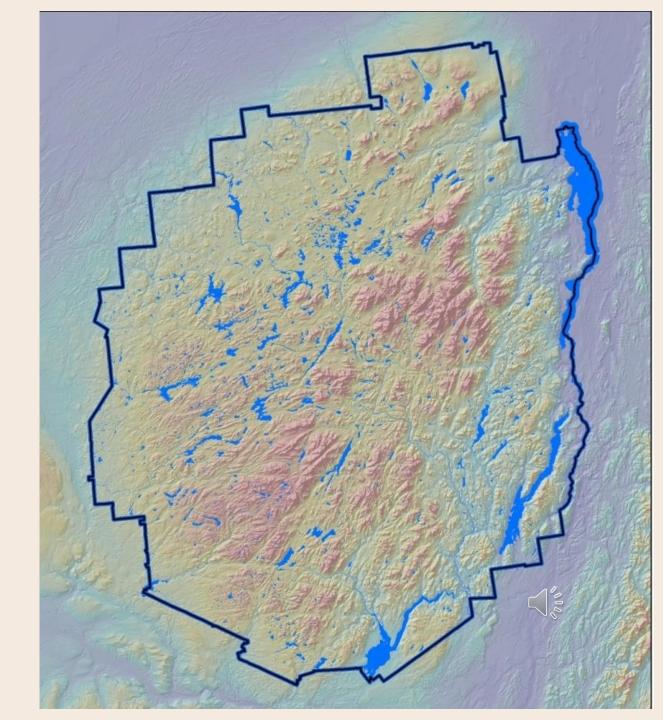
Science in Action: From Field to Policy

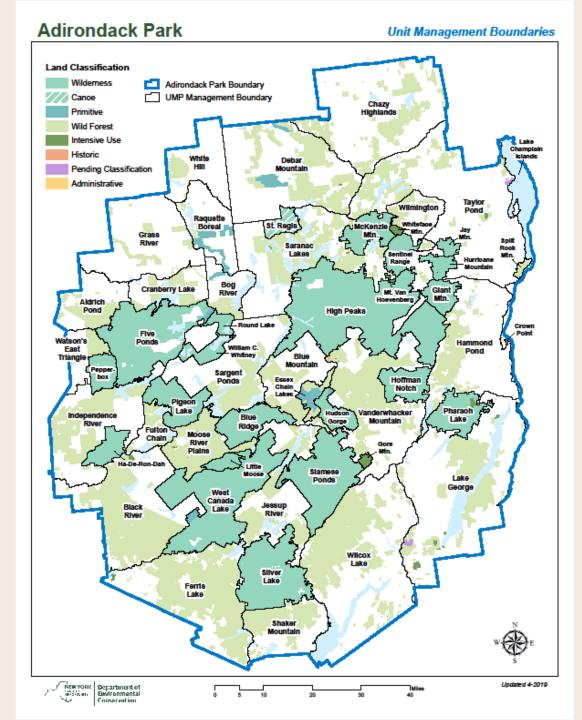




The Great Experiment in Conservation

- State park New York, 1892
 - 2.4 million ha (~6 million acres)
 - Matrix of public and private land
 - Forest Preserve, 1885
- Permanent human settlements
- Millions of seasonal visitors





Forest Preserve as Shared Commons

1894 State Constitution

Article XIV:

"The lands of the State... shall be forever kept as wild forest lands."

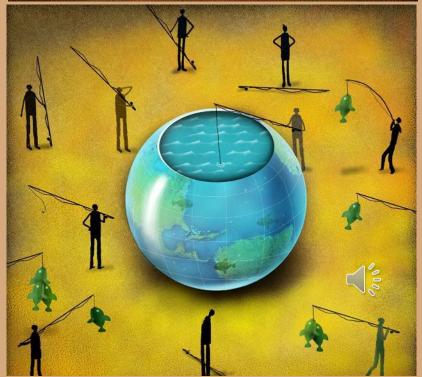
Policy linked to boundary-setting



Rationale

- Framing a language of Common Pool Resources from a private property foundation
 - Commons: natural and cultural resources, shared by many people¹
 - CPRs are
 - 1) difficult to fence off and
 - 2) reduced by use²
- Adirondack Park is a mosaic of public and private land rights involving many entities
 - Is the park resilient and sustainable, given this governance system?





¹https://iasc-commons.org/about-commons/

²Battersby 2017 PNAS; image credit Dave Cutler

Definitions

- Sustainability: development that meets the needs of the present without compromising the ability of future generations to meet their own needs¹
- Resilience: a community's social and ecological capacity to withstand and adapt to change while maintaining essential functions (e.g., ecosystem services) ²
 - Surprise/novelty
 - Thresholds punctuated equilibrium
- Social-Ecological System: a coherent system of biophysical and social factors that regularly interact in resilient, sustained manner. ³ SES:
 - Are dynamic
 - Incorporate multiple scales
 - Have feedback mechanisms between human and natural system components

¹Norton 2015

²Holling 1973, Angeler and Allen 2016

³Redman et al. 2004, Everard 2020



Blue Lining and Social-Ecological Systems

- "Blue Lining" a space
 - Drawing a line around an area and imbuing it with special land regulations
- Private lands have public value
 - Declared by virtue of
 - Park zoning
 - Specific rules



Methods

- Compiled database of events and organizations active 1760-2020
- Typology: categorized each event (n > 3,500) by
 - Scale (town global)
 - Action type (e.g., protecting resource, developing facilities)
 - Groups involved (e.g., agencies, non-profits)
 - Interaction between groups (e.g., court case, law, advocacy)
- Identified Key Events (n = 130)
- Event frequency, richness, diversity through time

Year	Event_Description	Public, Private	WHO	WHAT	HOW	Scale
1923	Robert Moses engineers the beginning of a statewide parks system to preserve historic and scenic sites and	public	OPRHP	recreation	manag ement	state
	provide recreation sites.					
1923	ACTC is reorganized as the Camp and Trail Club of the Lake Placid Club (Essex Co.)	private	other ngo	recreation	admin	county
1923	Proposed amendment allowing hydropower generation from a dam on the South Branch of Moose River; voters rejected it.	both	voters	energy/ water supply		adk region

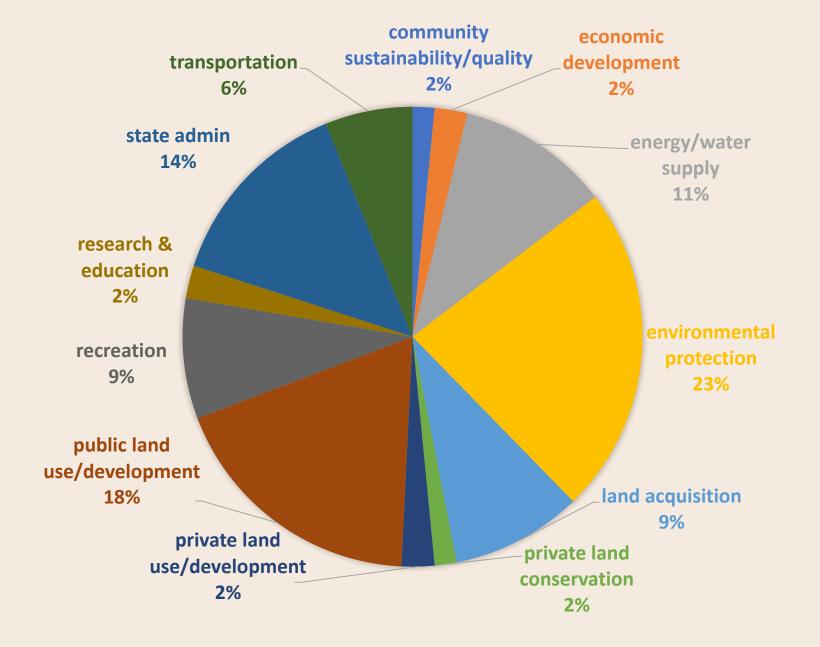


Key Event Examples

1885	Forest Preserve established (FP)
1892	Adirondack Park established
1930	MacDonald v. AfPA stopped tree cutting on FP for bobsled
1950	Hurricane damaged 400,000 acres; FP logged
1951	Attorney General allowed salvage harvest on FP
1951-1960s	Legislature studied wilderness protection options
1959	Northway 187 highway construction began
1971	Adirondack Park Agency Act passed
1990	Commission on the Adirondacks in the 21st Century report released

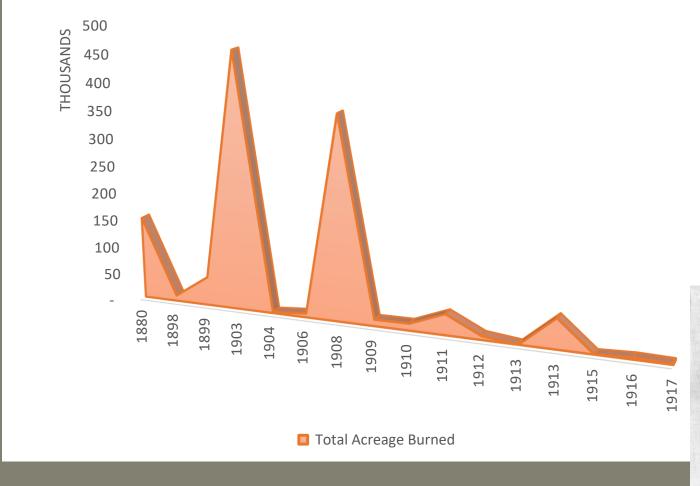


Key Event Topics by Frequency, 1760-2020





System Change & Resilience – Fire







Any person who wilfully or negligently sets fire to or assists another to set fire to any wild, waste, or forest lands belonging to the State is guilty of a orime and may be punished by IMPRISOMMENT for not more than TEN YEARS or by a FINE of not more than \$2,000.00 or by both—fress law see 1621.

Camp fires must not be started until all inflammable material has been

Matches must not be dropped until extinguished and broken in half.

All camp, amondre or other fires must be absolutely extinguished.

Every person visiting the forests will be held responsible for any

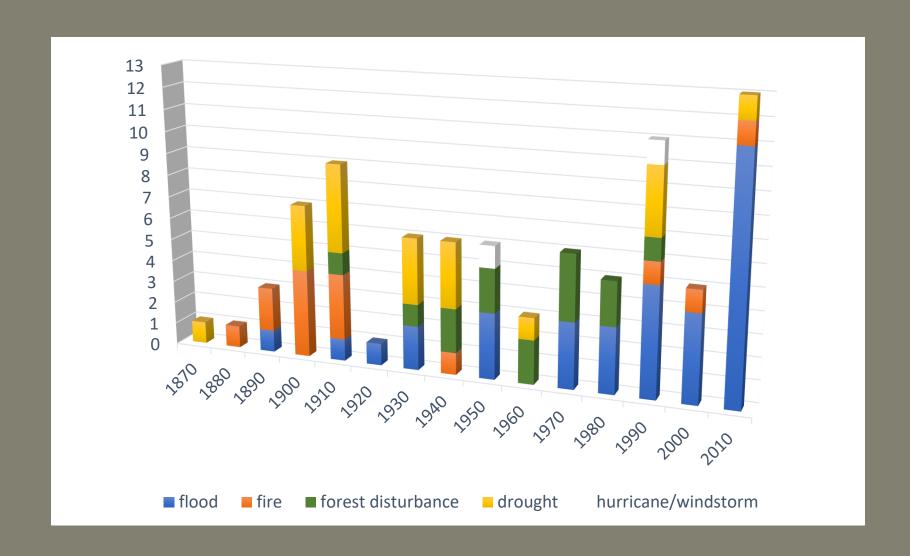
It is expected everyone will use the same caution in regard to fire

In the case of fire notify the Forest Bauger if you are unable to extin-

for the general welfare.

By order of the CONSERVATION COMMISSION

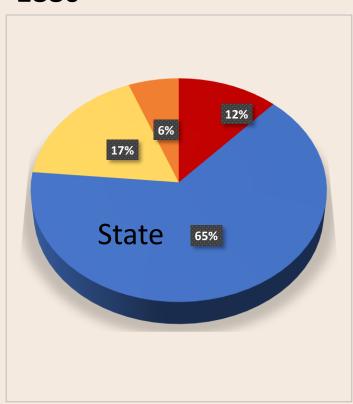
Disturbance Frequency: Fires, Floods, Wind

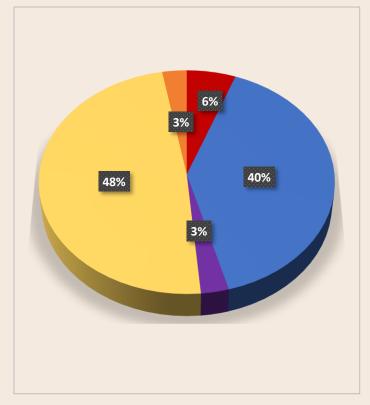


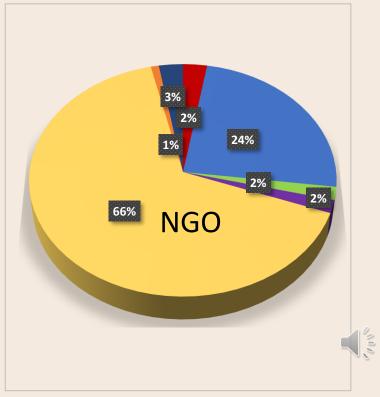


Governance – Who Participates







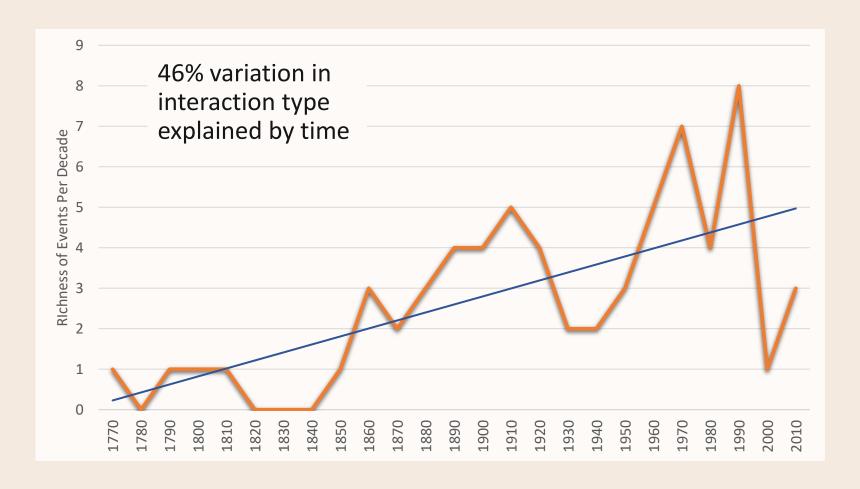


Governance of Public Resources

Year	Event Description	Forest Preserve/Common Pool Resources
1892	Private Preserves & Parks Law	Fish & wildlife protection / Reduced public access
1892	Adirondack Park Enabling Act	Permitted timber sales, camp leases on FOP – Reduced public resources
1894	Amendment	Stopped FP camp leases and island sale Protected public access
1896	State Law	Allowed public access to private waters stocked with fish
1930	Civilian Conservation Corps	Created public recreation facilities / Built trails, ponds impacted wilderness

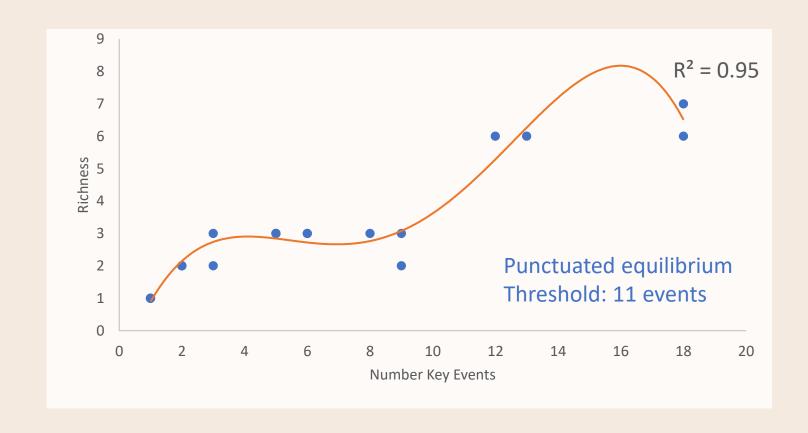


Results – Event Richness over Time





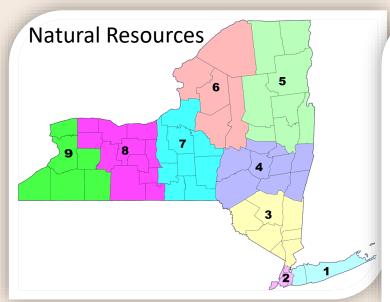
Key Events/Decade and Policy Action Richness

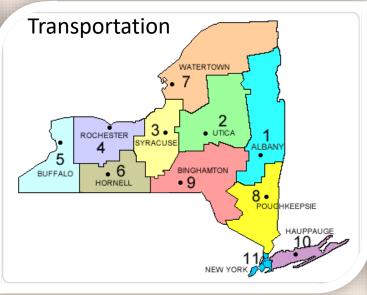


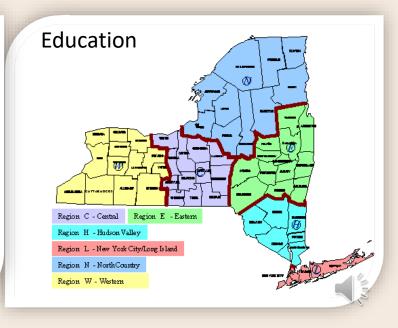


Shared Natural Resource Decision-Making

- Most state agency regions do not correspond to Adirondack Park
- DEC, DOT, counties and other agencies have differing boundaries

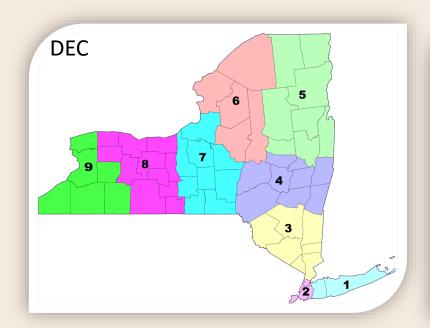


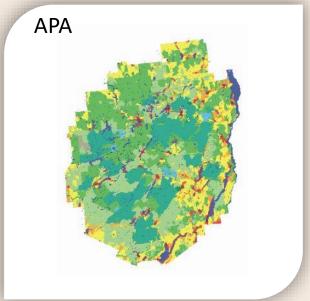


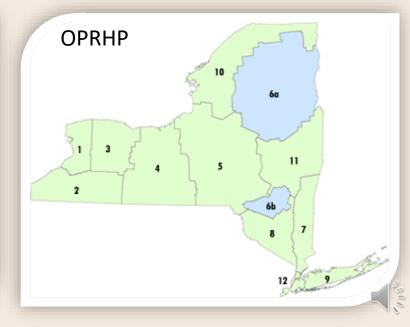


Shared Natural Resource Decision-Making

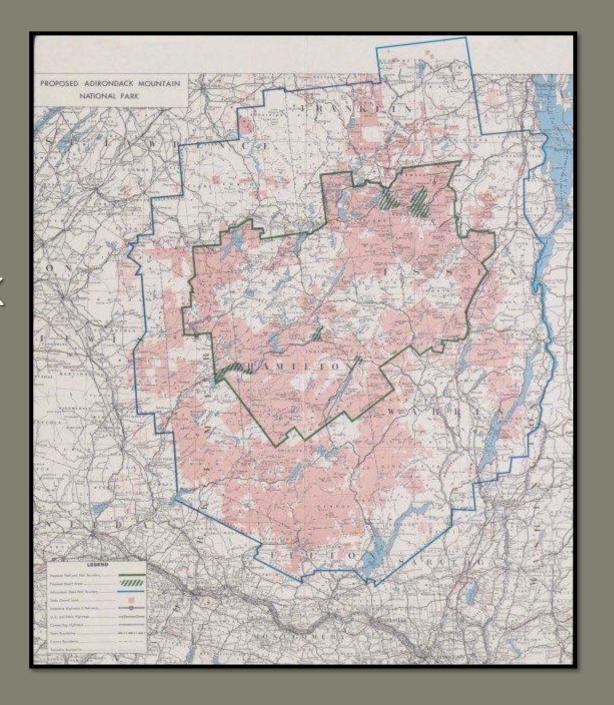
- NYS Office of Parks, Recreation & Historic Preservation minimal
- Power center outside the park







1940 Adirondack National Recreation Area



1967 Adirondack National Park



Conclusion

- Adirondack Park experienced multiple shocks/surprises (natural and socio-economic)
 - Evidence of thresholds, path dependency, and punctuated equilibrium
- State was the locus of decision-making for Adirondack Park's public and private land policy
 - Sometimes what did NOT happen was as important as what did
- Complex SES policy solving one problem created others
 - Commons management in a public/private matrix requires repeated revisitation of governance structure





Blue Lining and Social-Ecological Systems

- The Blue Line is a porous boundary
- The Adirondack Commons includes
 - Public Forest Preserve
 - Conservation Easements
 - Private lands public value
- Resilience does not imply unchanging
- Sustainable human and natural communities
 - May be heterogeneous across the park





