

Fire Forward

and

the Good Fire Alliance



AUDUBON CANYON RANCH

FIRE FORWARD

Building Ecosystem Resilience Together

Jared Childress, Prescribed Fire Specialist

ACR's Fire Forward

October 19th 1991





October 8th 2017



What do these “Firestorms” mean?

Is it Climate Change and the “New Normal”

Or something else?



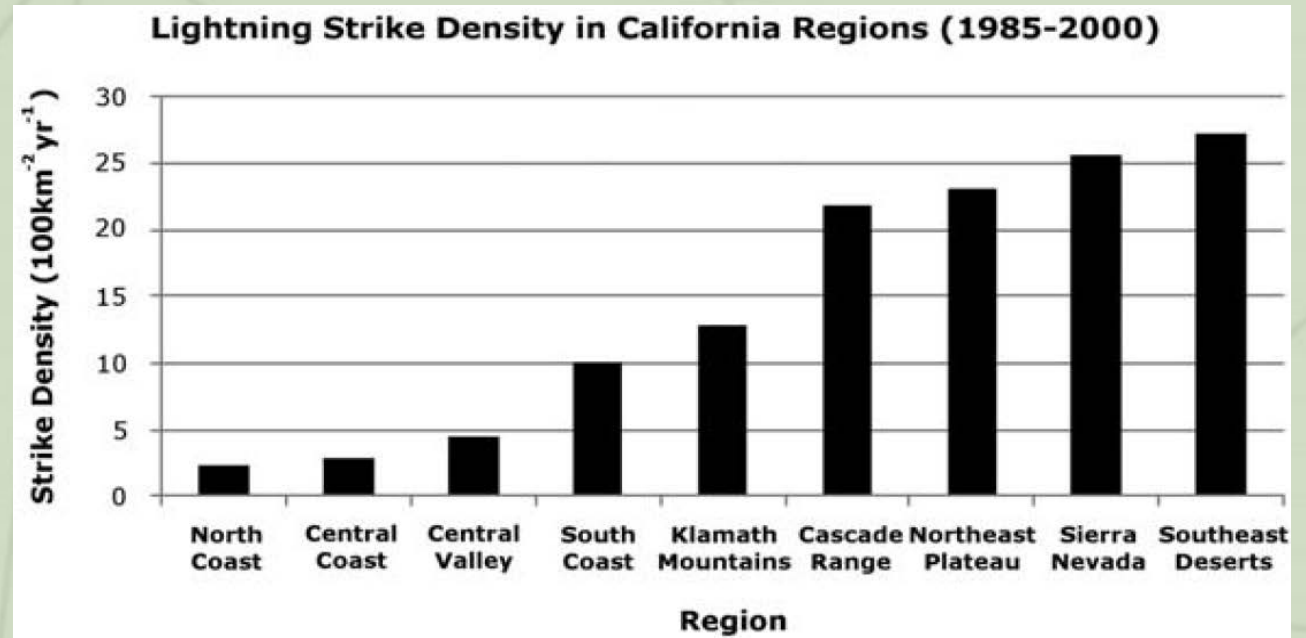
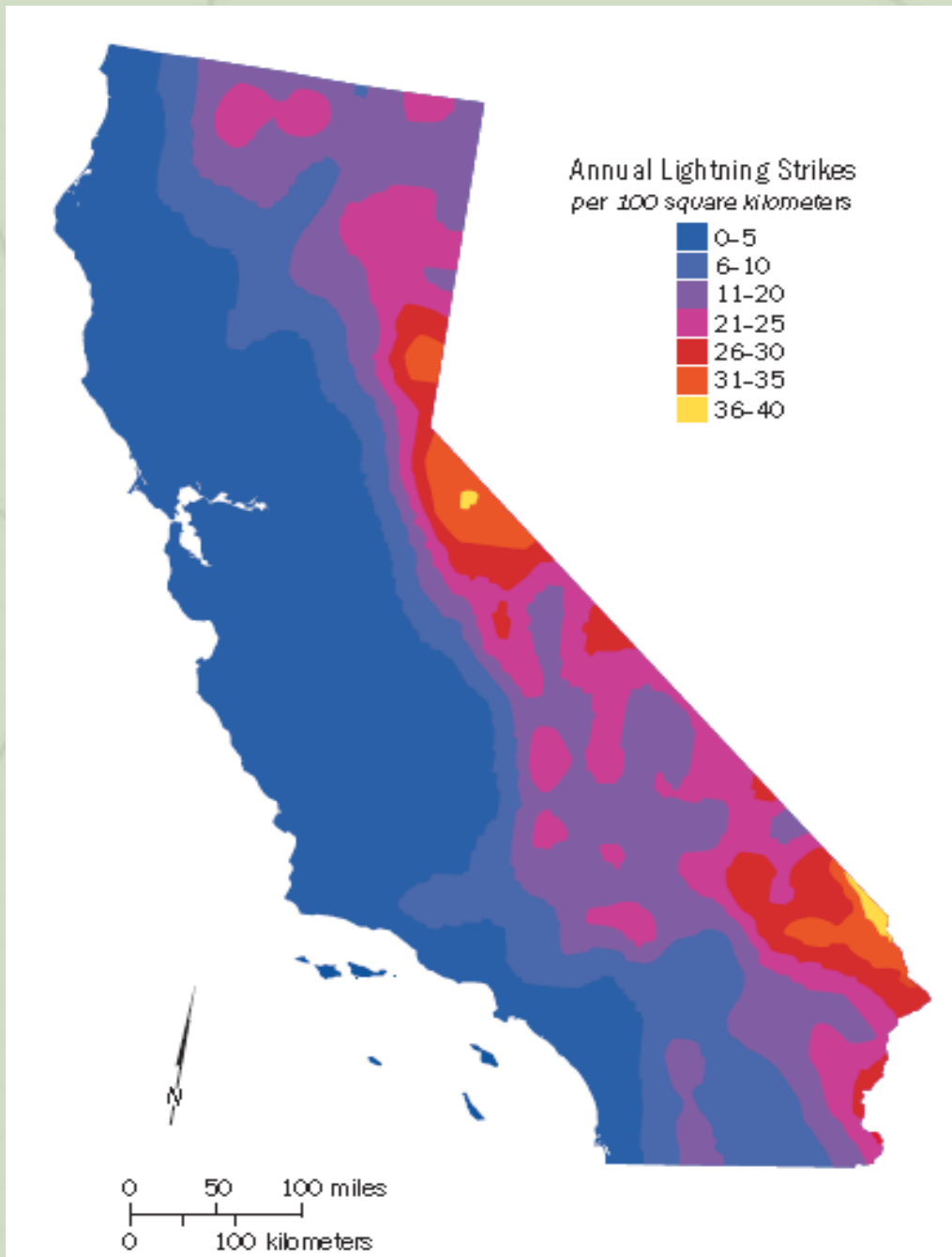
Direct Energy Weapon?

A history of fire

Prehistoric fire area and emissions from California's forests, woodlands, shrublands, and grasslands

Stephens et al. 2007. *Forest Ecology and Management*, 251(3), 205-216.

“Approximately 1.8 million ha burned annually in California prehistorically (pre 1800). Our estimate of prehistoric annual area burned in California is 88% of the total annual wildfire area in the entire US during a decade (1994–2004) characterized as “extreme” regarding wildfires. The idea that US wildfire area of approximately two million ha annually is extreme is certainly a 20th or 21st century perspective. Skies were likely smoky much of the summer and fall in California during the prehistoric period. Increasing the spatial extent of fire in California is an important management objective.”



Cuthrell, Rob Q., et al. "A land of fire: Anthropogenic burning on the central coast of California." *Contemporary issues in California archaeology* (2012): 153-172.

“Impacts of Native American burning [were] highest near larger population centers in Coastal California and the Central Valley where lighting ignitions were rare (Keeley, 1982, 2002, 2005; Stephens and Libby, 2005).”

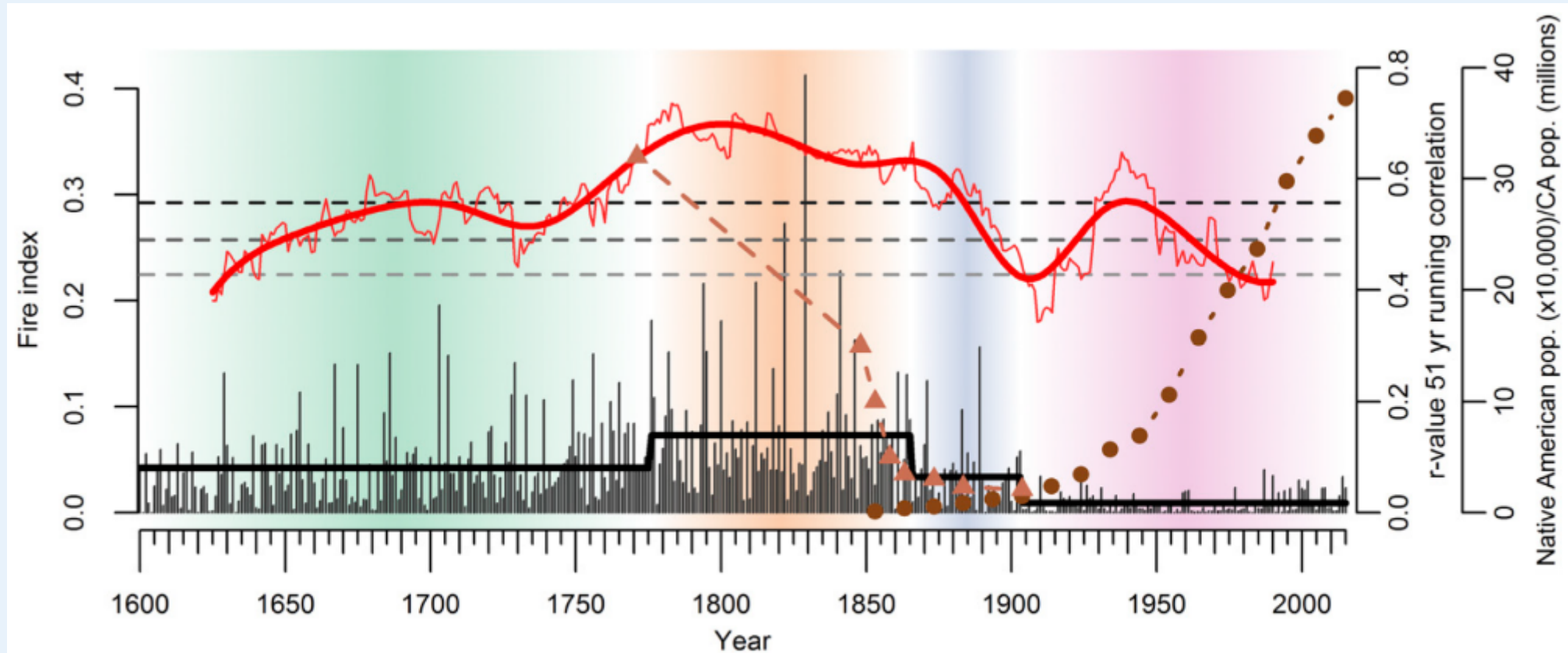


Fig. 3. Variation in strength of fire-moisture (60) relationships (i.e., PDSI) and population size of Native Americans (16) (triangle) and others (19) (circles) in California. The fire regime periods are indicated by shading as in Fig. 2. The r -values are 51-y running Pearson product-moment correlation coefficients of PDSI (inverted for presentation) and fire index is plotted on the 26th year of the window. Statistical significance ($P < 0.05$, $P < 0.01$, $P < 0.001$) is shown by increasingly dark dashed lines.

(Taylor et al. 2016. Sociological transitions trigger fire regime shifts and modulate fire)

Fire Return Intervals (FRI) for Regionally Present Communities

Plant Community	Median FRI	High FRI
Black Oak	2	8
Oak Woodlands	2	11
Fescue Oatgrass	3	8
Coastal Sagebrush/Woodland	5	20
Redwood	10	30
Mixed Evergreen	10	30
Riparian Corridors	13	47
Coastal Sagebrush	20	40
Chaparral	30	70

(Taylor and Skinner 2003, Skinner and Chang 1996, Everett 2008, Stephens et al 2007 and many more)

John Muir and early environmentalism.

A product of colonization.



First Yosemite trip: 1868
Mariposa Battalion: 1850

AUDUBON CANYON RANCH

sacr

conservation in action



Martin Griffin Preserve

Post WWII



MGP bought in 1965



MGP 1993

Legend

Google Earth

Image U.S. Geological Survey

2000 ft



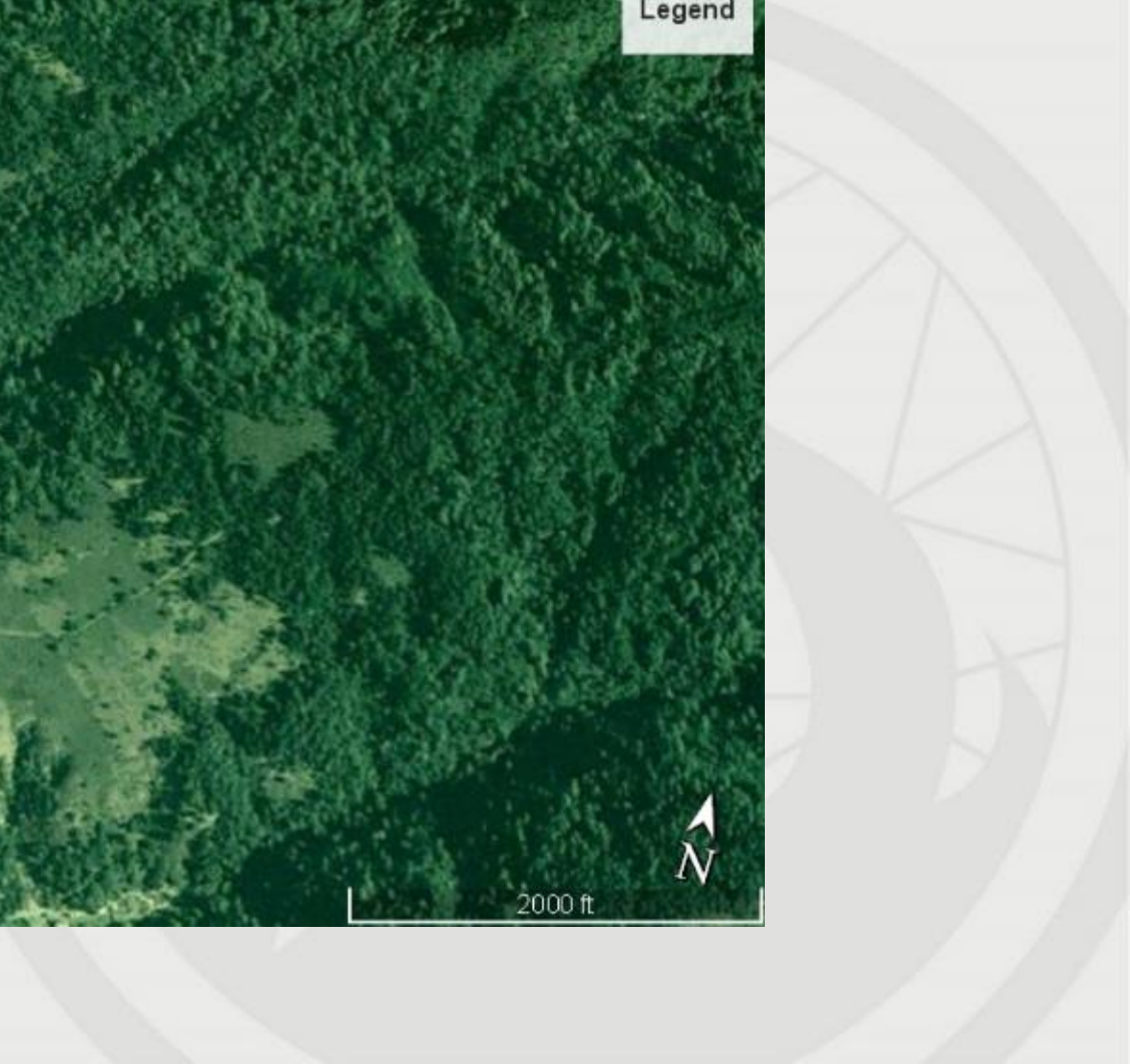
MGP 2004

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Google Earth

Image USDA Farm Service Agency

2000 ft



MGP 2010

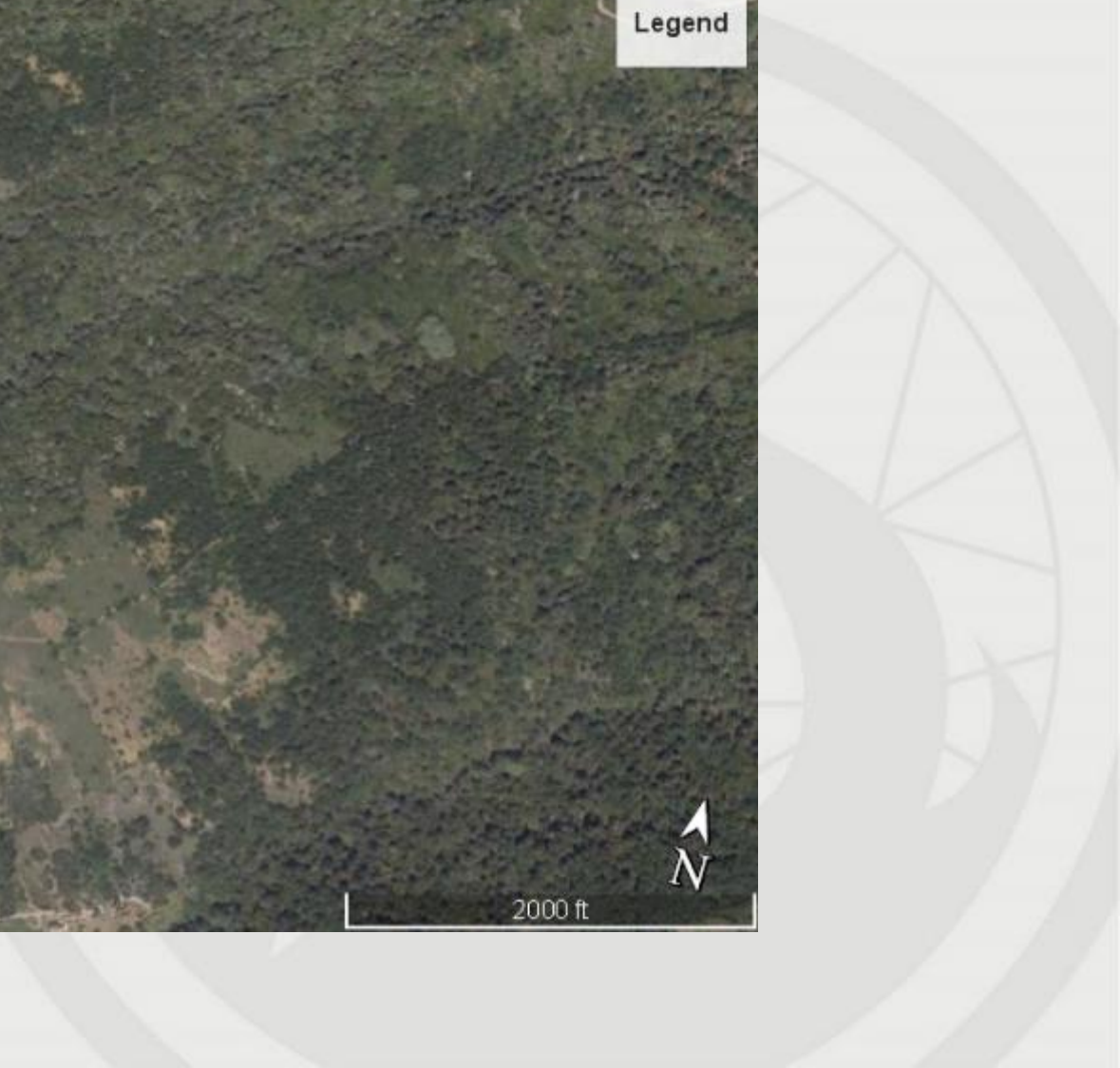
Legend

Google Earth

Image USDA Farm Service Agency



2000 ft



MGP 2018

Legend

Google Earth

2000 ft





Bouverie 2017 Planned Burn Units and Vicinity

Legend

- | | | | |
|--|--------------------|---|----------------------------|
|  | View Trail Unit |  | Dirt Road/Trail |
|  | Upper Pasture Unit |  | Bouverie Preserve Boundary |

0 0.05 0.1 0.2 Miles

0 120 240 480 Yards

N



Video of prescribed burn at Bouverie Preserve

[Click here for online video](#)

Nuns Fire





Fire Forward regional program:

▶ Organize Community

Teaming up with private landowners, public agencies, tribes and conservation partners around a shared purpose of effective fuel management.

▶ Develop Capacity

Building our region's capacity to accomplish this work through prescribed fire training and equipment sharing.

▶ Implementation

Working with partners to implement ecologically sound fire and fuels treatments on ACR preserves and partners' lands.



A group of approximately 20-25 people are seated in a circle in a room, engaged in a community meeting. The room has a curved wall on the left with large windows covered by curtains. In the background, there is a whiteboard and a projector screen. The lighting is dim, with circular recessed lights on the ceiling. The text "Community Organizing" is overlaid in white on the center of the image.

Community Organizing

Teaming up with private landowners, public agencies, tribes and conservation partners around a shared purpose of effective fuel management

The Good Fire Alliance

Cooperative Burning

Grazing for fuel reduction

Thinning and
shaded fuel breaks



Bay Area Prescribed Fire Council (B.A.Rx.F)



Cal Fire
Sonoma County Parks
UC Berkeley
Amah Mutsun Tribe
State Parks
Sonoma Ecology Center
Marin County Fire
SF PUC
Jenner Headlands Preserve
EBMUD
UC Cooperative Extension
Marin Water
Golden Gate NP Conservancy
Pepperwood
Moraga Orinda Fire Department
EB Parks
Mid-Pen Open Space
CA Fire Science Consortium
Bay Area Air Quality-
Management District

**Bay Area Prescribed Fire Council's
Spring Meeting 2020:
Burning in the Fog**



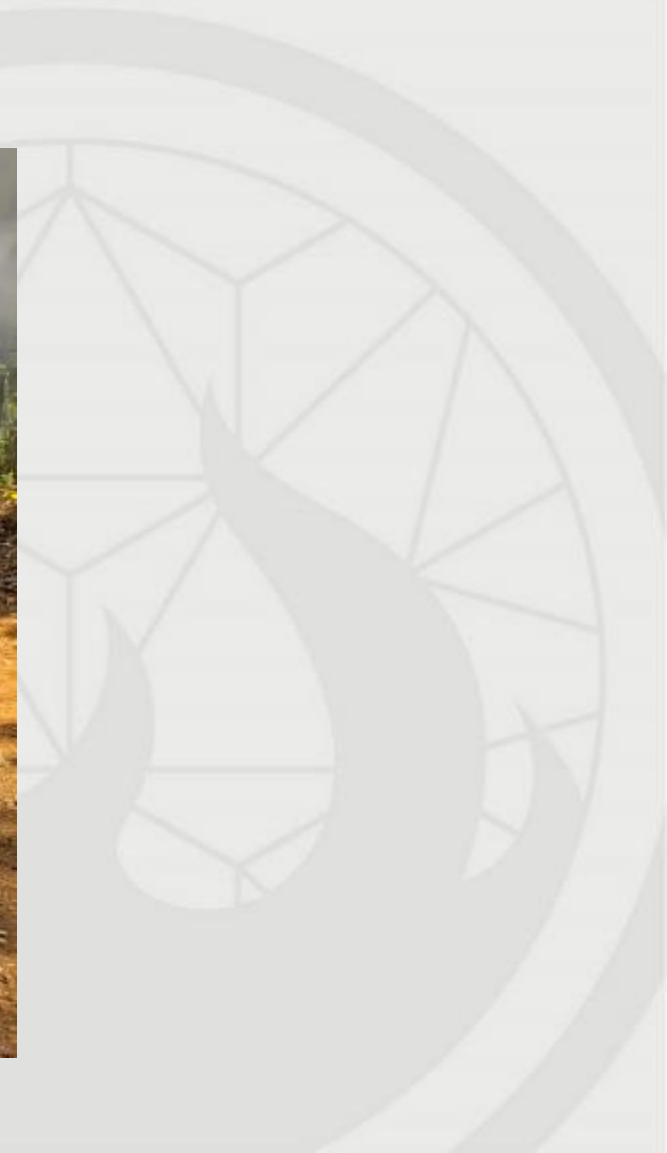
Conference Wednesday March 25th

Field tour Thursday March 26th

Stinson Beach, CA

Bay TREX 2020

(Training Exchange)



A group of firefighters in yellow gear are gathered around a yellow fire truck in a field. A man in a grey shirt is addressing the group. The scene is outdoors with trees in the background.

Capacity Development

Building our region's capacity to accomplish this work through prescribed fire training and equipment sharing

Training and Workshops



Audubon Canyon Ranch's Fire Forward program
Presents:

Coalesce:
**A Basic Wildland
Fire Fighter Training Festival**
For Prescribed Fire Practitioners

Sat. May 16th
Food provided
\$150.00
(Scholarships available)

Bouverie Preserve
Glen Ellen,
Sonoma County

Online pre-course work necessary
Register at:
<https://bit.ly/2OeFAU1>

acr
conservation in action

Truck and Fire Trailer/ Cache



A photograph of a forest fire. In the foreground, two firefighters in yellow gear and hard hats are visible on the left. The ground is covered in flames and smoke. The background is filled with tall, dark evergreen trees under a hazy, smoke-filled sky.

Implantation

Working with partners to implement ecologically sound fire and fuels treatments on ACR preserves and partners' lands

Thinning



Cooperative Rx Burning on



ACR Lands
Private Lands
Partner Organizations

MGP Preserve 2019





So what is the Good Fire Alliance then?



Community Burning



PPE, Training and the M.O.A.



Training Burns



Winter “black-lining”



Santa Rosa Junior College



Targeted Grazing and Home Hardening

