

# IF A TREE BURNS IN A FOREST, DOES ANYBODY HEAR?

Dominick A. DellaSala, Ph. D, Chief Scientist

[dominick@geosinstitute.org](mailto:dominick@geosinstitute.org)

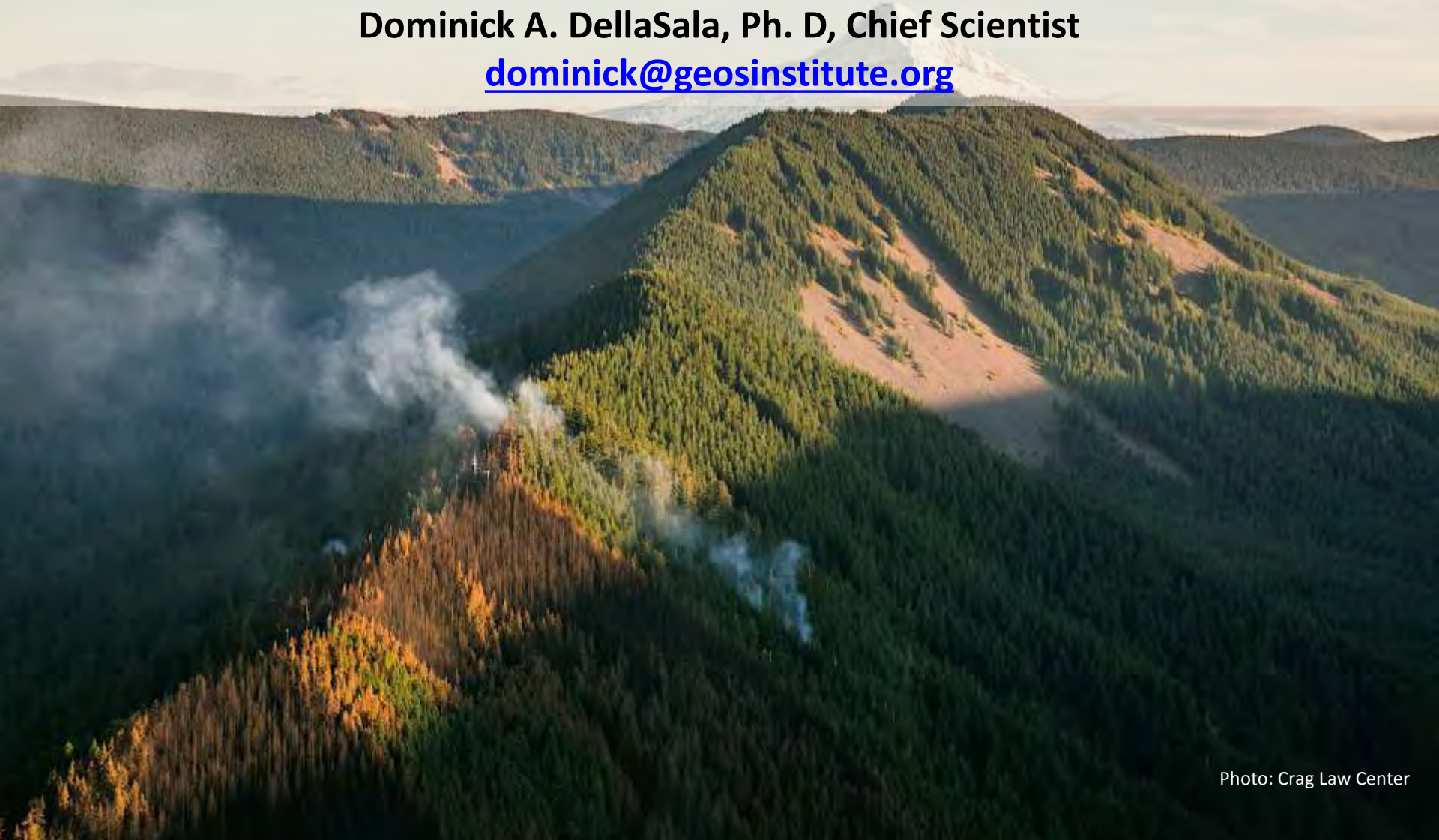


Photo: Crag Law Center

**FIRES ARE SCARY, PRODUCE SMOKE, THREATEN PEOPLE & HOMES**





**Wildfires  
Destroy  
Green  
Forests**



Photo: D. DellaSala

# DID THE EAGLE CREEK FIRE DESTROY THE GORGE?



Photo: Crag Law Center

# NEW DISCOVERIES: FIRE IS AN ANCIENT ARCHITECT OF ECOSYSTEMS



# FIRE IS AN ANCIENT ARCHITECT OF THE GORGE'S ECOSYSTEMS



Map by Lipstick Kleenex via Wikipedia



# NEW DISCOVERY: NATURE HAS REMARKABLE REJUVENATION POWERS

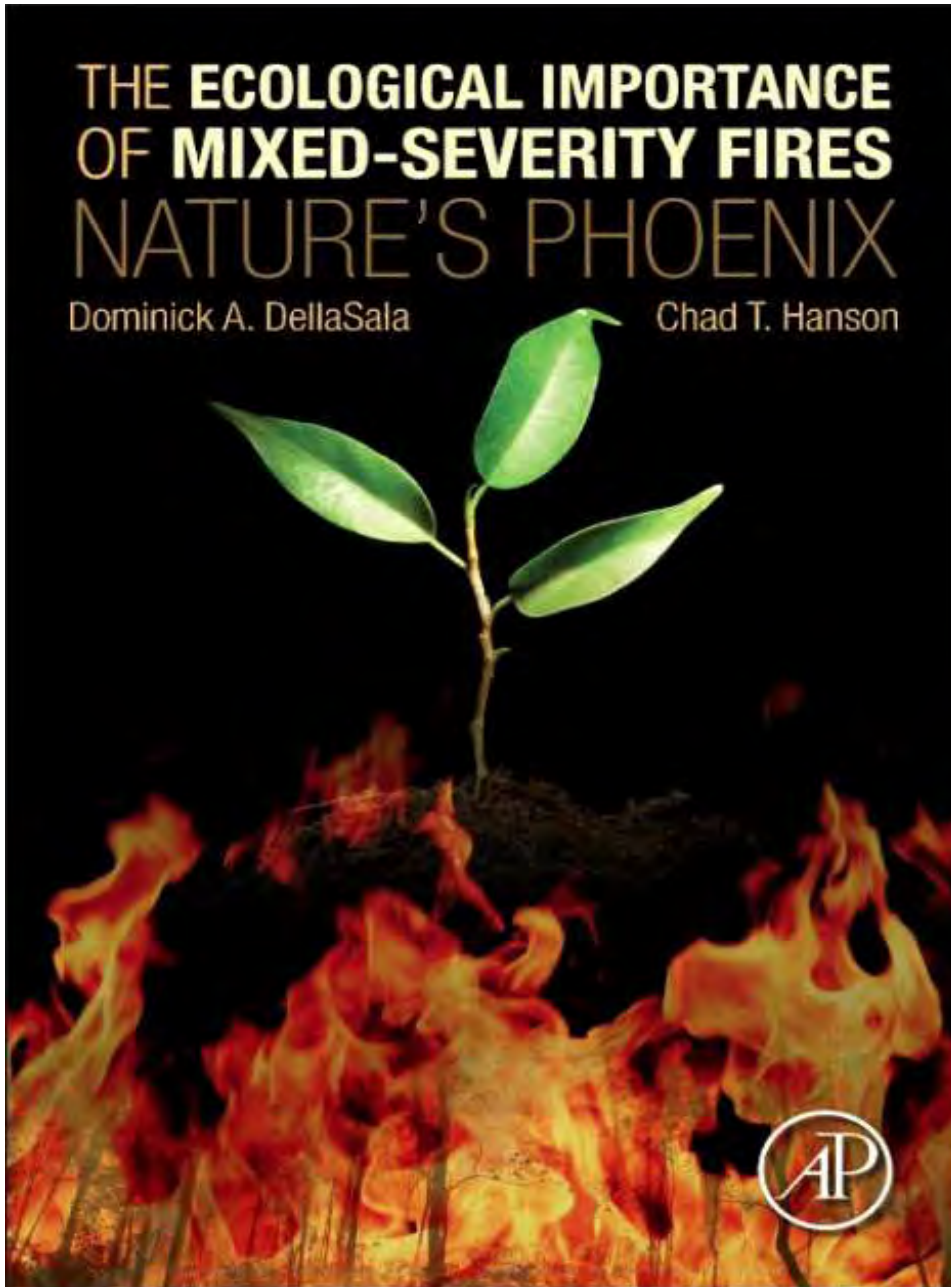


Image credit: Supagrays

# NEW DISCOVERY – FIRE REJUVENATES A FOREST



Photo: D. DellaSala

# NEW DISCOVERY – FIRE REJUVENATES A FOREST



Photo: Gabrielle Boisrame

# NEW DISCOVERY: LIFE & DEATH JOINED AT THE HIP BY FIRE



**WHICH IS MORE IMPORTANT  
(burned or unburned)?**



© Ken Crocker

# BIODIVERSITY IS THE FABRIC OF LIFE ON EARTH



Assorted Coleoptera in the University of Texas Insect Collection

Arrangement by Julia Suits; Photograph by Alex Wild  
Public Domain image produced by the "Insects Unlocked" project at the University of Texas at Austin.

# PYRODIVERSITY BEGETS BIODIVERSITY



Photo: Crag Law Center

# NEW DISCOVERY: BURNED FOREST AS IMPORTANT AS OLD GROWTH



Photo: D. DellaSala

**BIOLOGICAL LEGACIES**  
←————→  
**Connect Forest Stages Through Time**



Photo: D. DellaSala



Photo: D. DellaSala



Photo: Barracuda1983



Photo: Bruce Marlin, CC BY-SA 2.5



Photo: USFWS



Photo: M. Bond

# NATURE'S PHOENIX: RIM FIRE 2013, STANISLAUS NATIONAL FOREST



# NATURE'S PHOENIX: POLLINATORS RESEED THE FOREST



Photo: D. DellaSala



Photo: Pexels



Photo: US Forest Service



Photo: David. W. Inouye, CC by 2.0

# NATURE'S PHOENIX: LASSEN NATIONAL PARK



Photo: Maya Creek

# NATURE'S PHOENIX: RIM FIRE, STANISLAUS NATIONAL FOREST, CA



Photo: Maya Creek

# NATURE'S PHOENIX: FIRE-WEB-OF-LIFE



Photo: Maya Creek



Photo: C. Hanson



Photo: D. DellaSala

# NATURE'S PHOENIX: LAKE FIRE 2015, SAN BERNARDINO NF, CA



Photo: R. Fazio

# NEW DISCOVERY: CLIMATE CHANGE IS DRIVING UP TEMPERATURES AND INCREASING WILDFIRE ACTIVITY



## TEMPERATURES ARE RISING

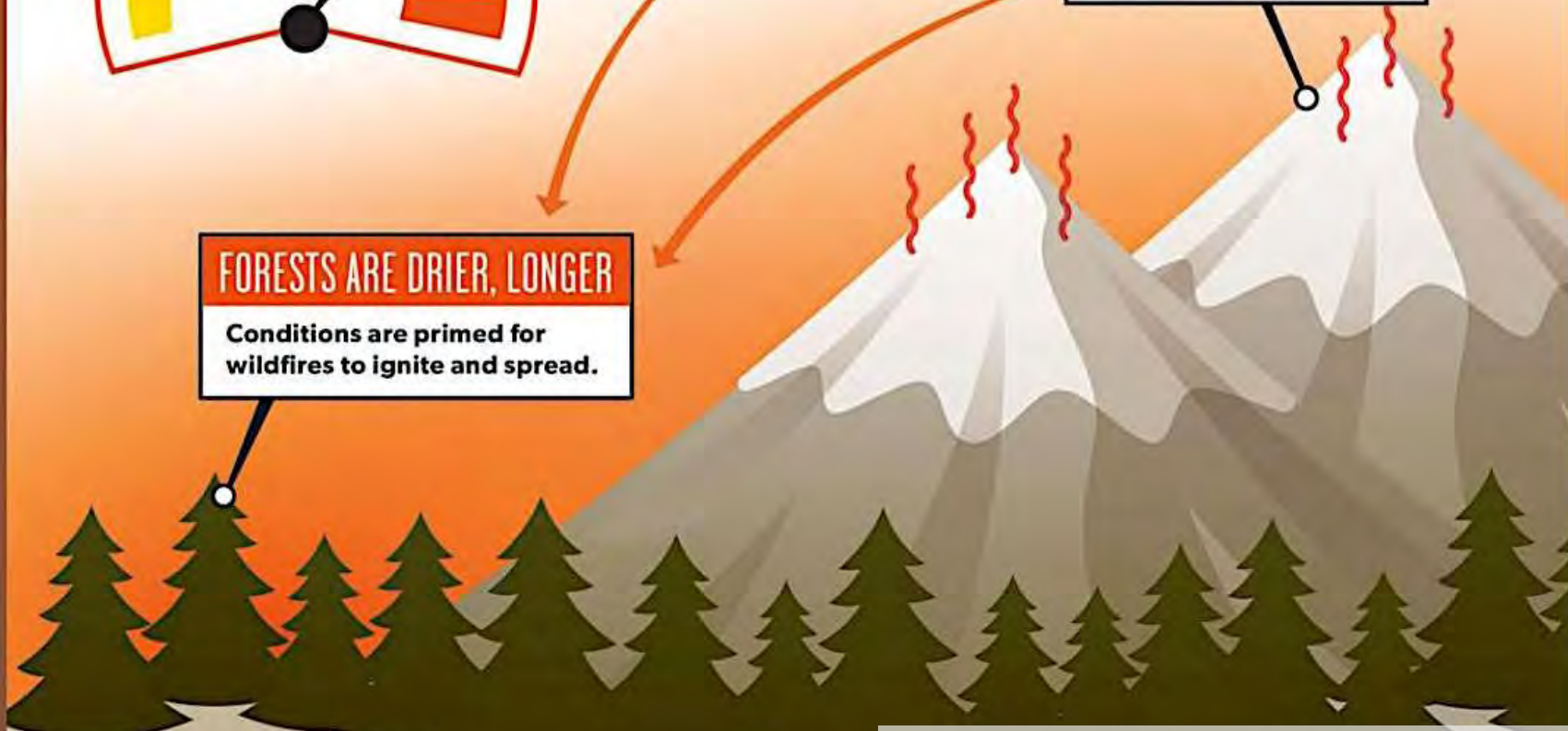
Average annual temperatures in the Western U.S. have increased **1.9°F** since 1970.

## SNOW MELTS SOONER

Winter snowpack melts up to 4 weeks earlier than in previous decades.

## FORESTS ARE DRIER, LONGER

Conditions are primed for wildfires to ignite and spread.



# NEW DISCOVERY: THIS KIND OF LOGGING INCREASES FIRE RISKS



Photo: C. Hanson

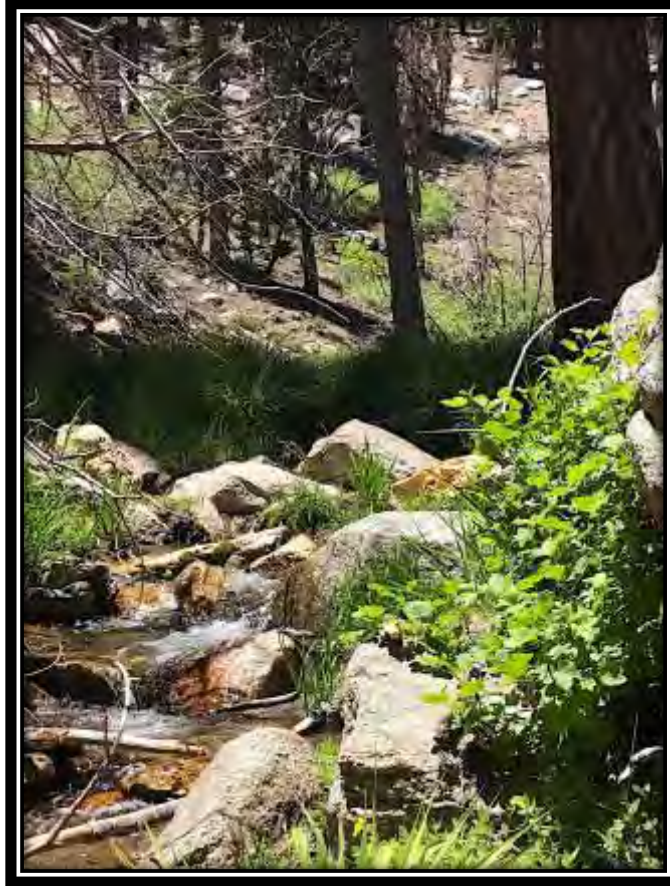


Photo: C. Hanson



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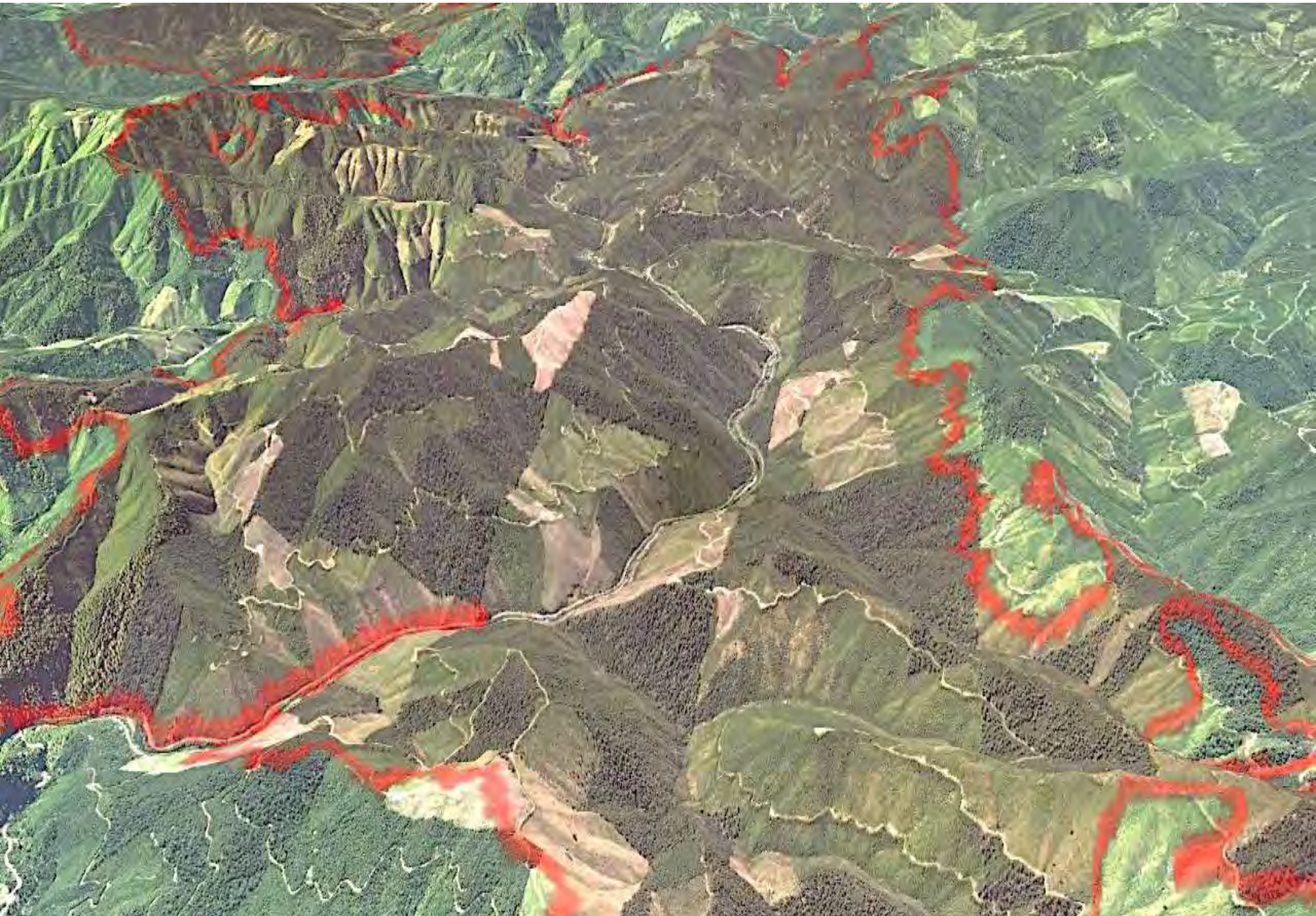


Photo: C. Hanson



Photo: D. DellaSala

# NEW DISCOVERY: LOGGED/REPLANTED BURN HOTTEST IN FIRES



# SHOULD WE LOG EAGLE CREEK TO “RESTORE” IT?



Photo: Crag Law Center

# LIVING WITH FIRE MEANS BEING STRATEGIC ABOUT WHAT WE DO



Photo: US Forest Service

✓ **WILDFIRES UNDER SAFE CONDITIONS**



- ✓ **THIN LOGGED/REPLANTED AREAS**
- ✓ **(Save the big trees from logging)**

✓ **SUPPRESSION AND HOME SAFETY**



- ✓ **PRESCRIBED FIRE – LOW ELEVATIONS**

*Nature is ever at work building and pulling down, creating and destroying, keeping everything whirling and flowing, allowing no rest but in rhythmical motion, chasing everything in endless song out of one beautiful form into another (J. Muir)*

