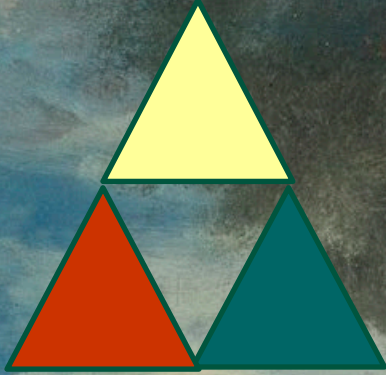




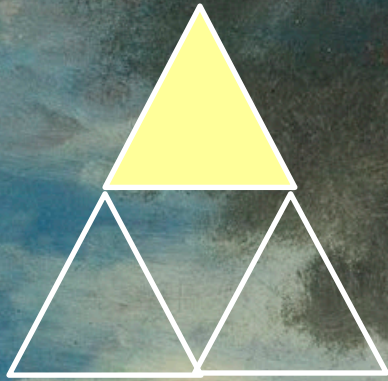
Promethean
Productions presents





Fire in the Past, Fire in the Mind, Fire in the Future

Triangulating fire
anew



Fire in the Past

**Writing a
new
narrative**

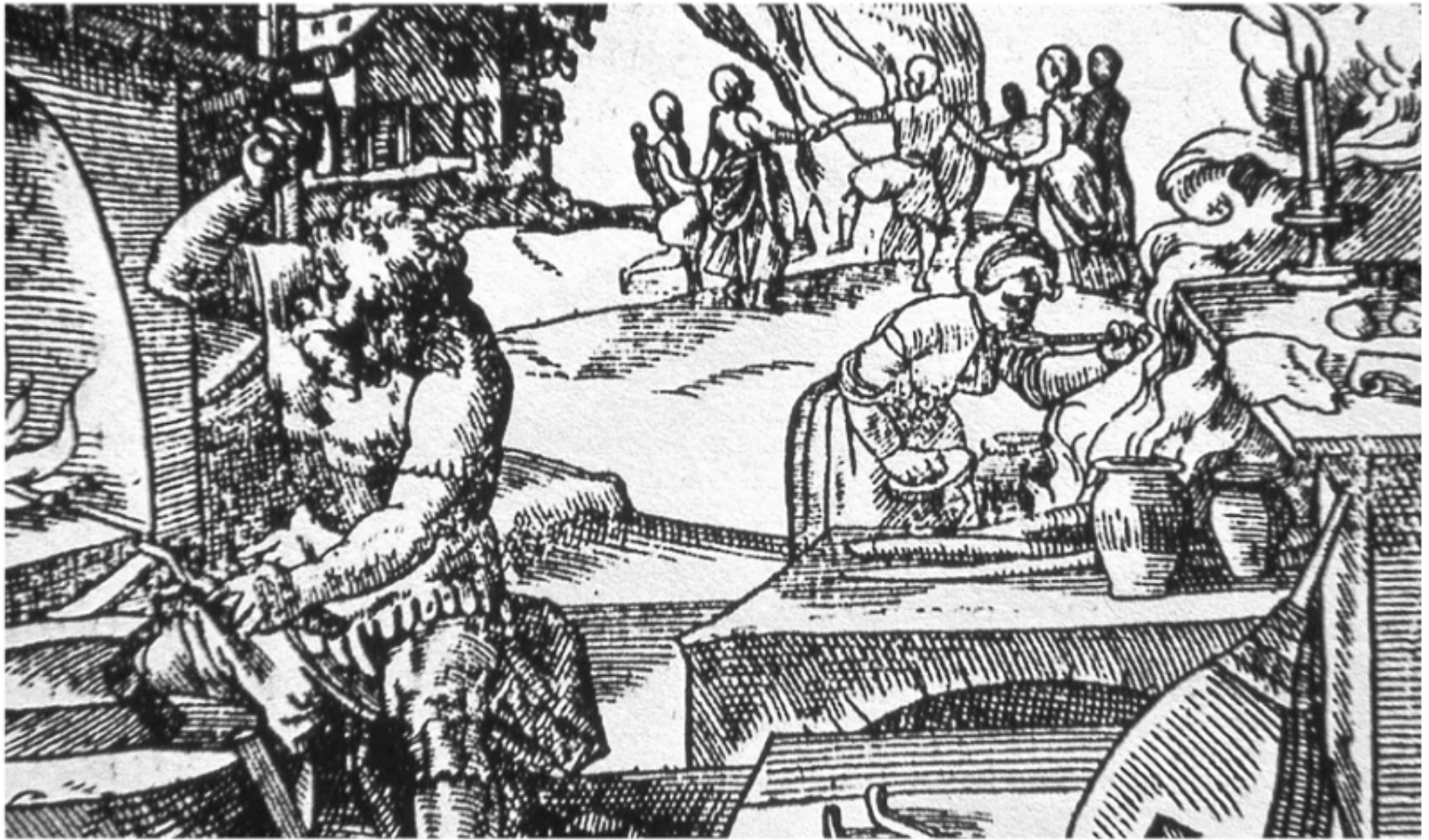
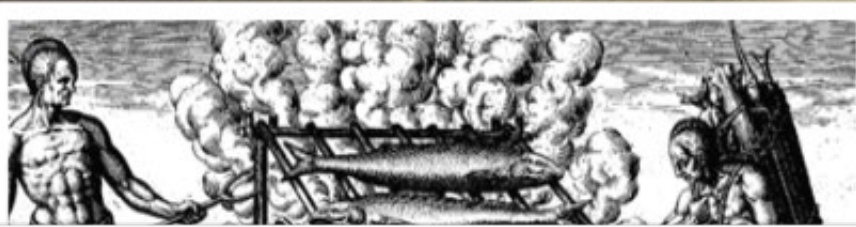
The background is a large, dramatic landscape painting depicting a forest fire. Thick, dark smoke billows from the left, partially obscuring the sky. In the foreground, a fallen tree trunk lies on the ground, and several tall, dark evergreen trees stand. The fire is visible in the mid-ground, with orange and yellow flames rising from the forest floor. The overall color palette is dominated by dark greens, browns, and the warm tones of the fire and smoke.

**A uniquely fire
planet**

**Fire as creation of
living world**



cook food



The Culture of the First Race

John Roberts

At the end of the last glaciation, a fire-wielding creature met a fire-receptive world and they remade each other.



**Forest Fires
1880 Census**



Lightning fire

Between Three Fires

First Fire

**Forest Fires
1880 Census**

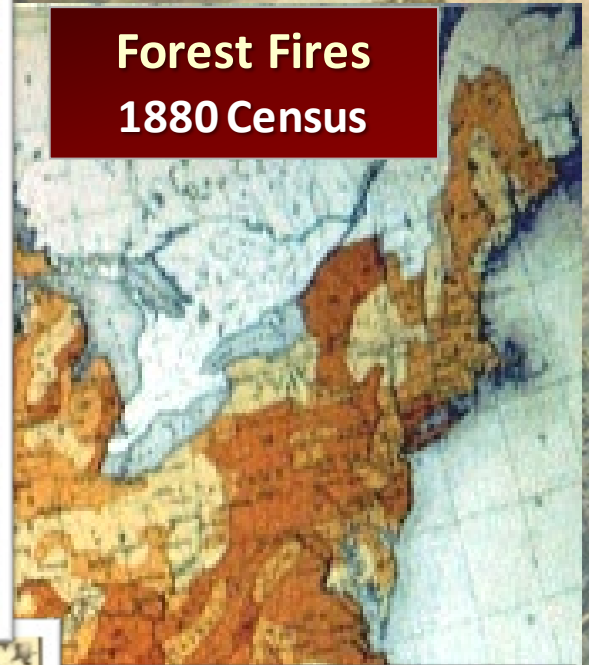


Between Three Fires

Second Fire



Forest Fires 1880 Census



Be

Europe's first wave
expansion

political imperialism



Europe's first wave
expansion

political imperialism

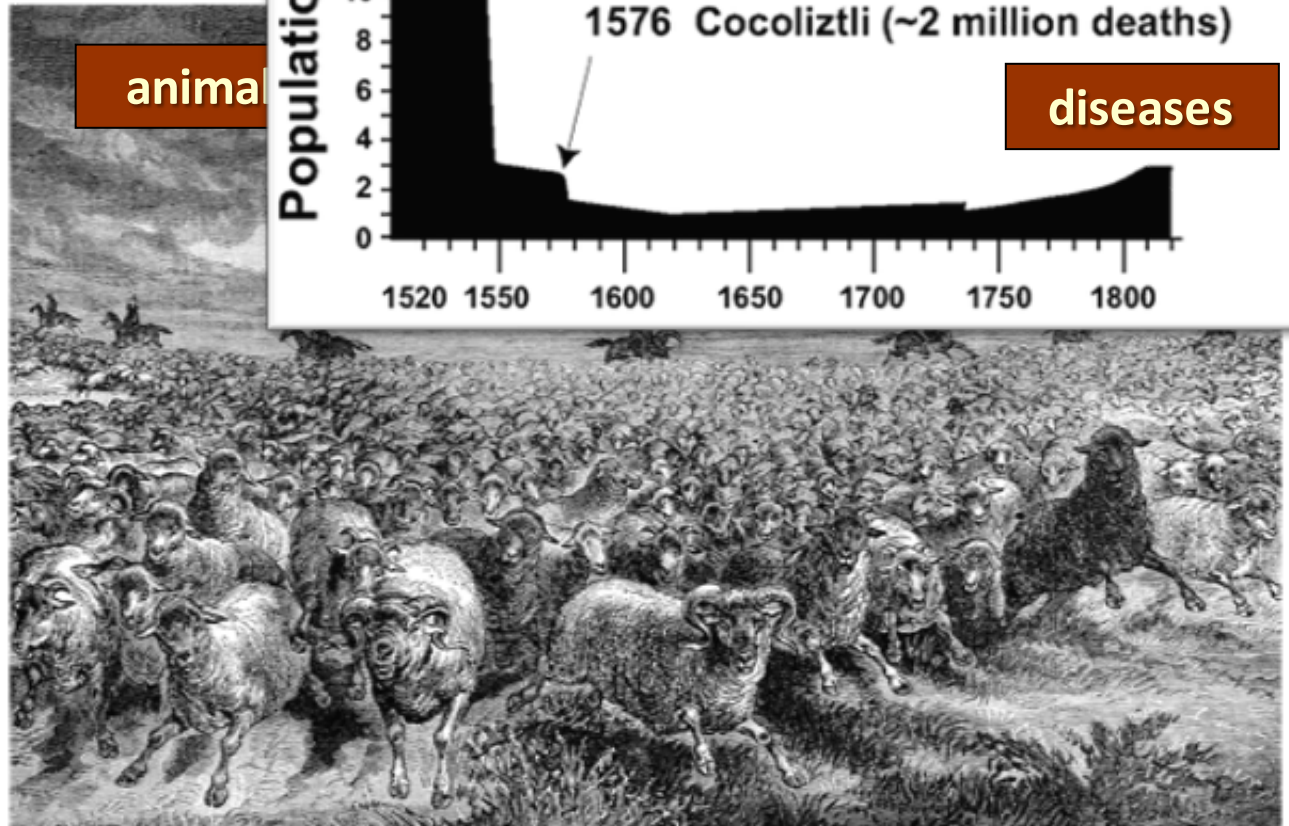
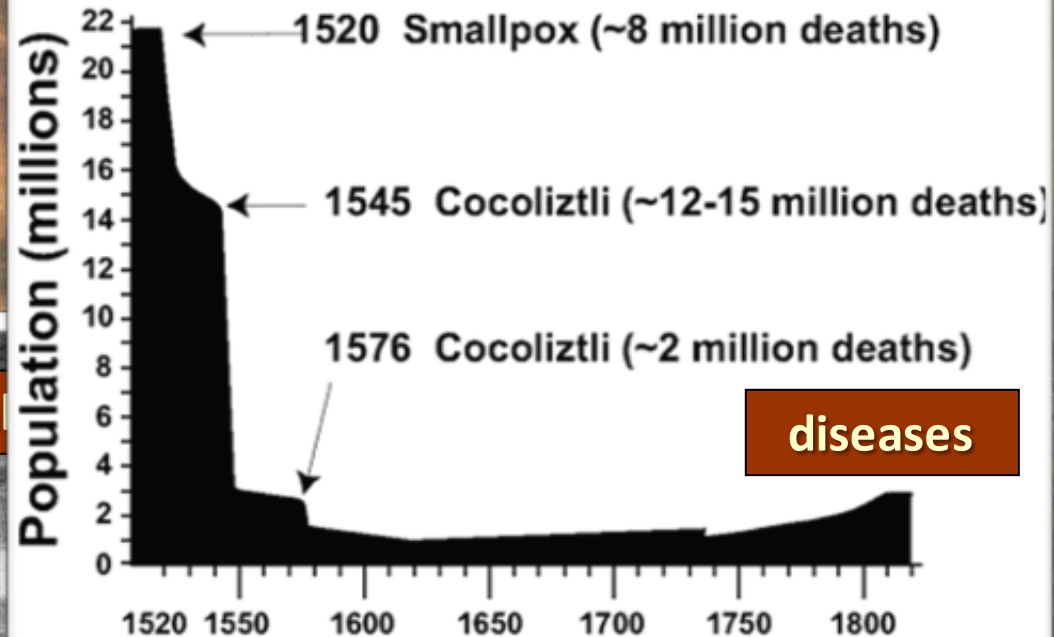
ecological imperialism

plants

animal

diseases

Population Collapse in Mexico



Europe's first wave
expansion

political imperialism

ecological imperialism

animal

Climate connection to demography
and land use



The Little Ice Age (1550 to
1850 CE)



Europe's second wave expansion

scientific revolution

changed how Western science understood fire

technological revolution

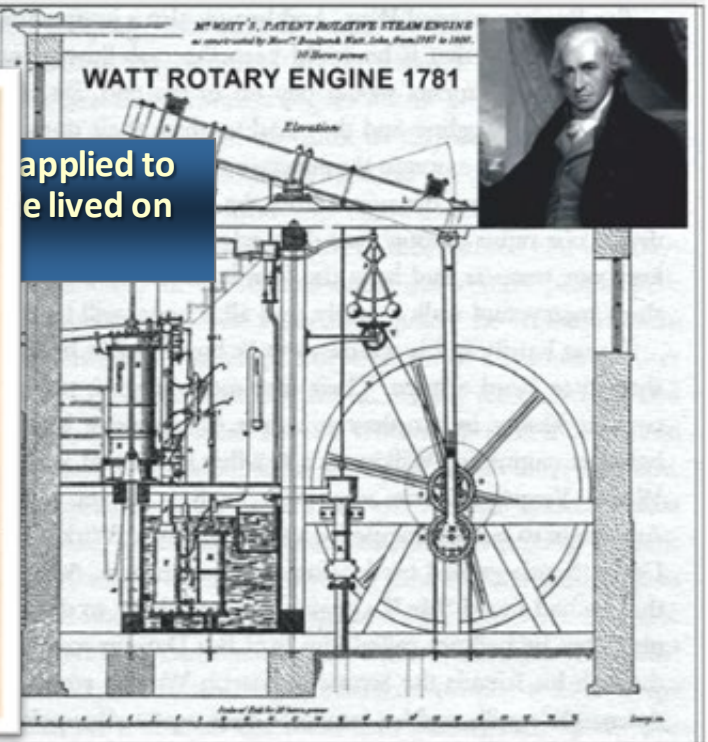
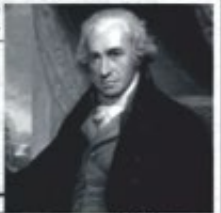
colonization

means for disseminating Western concepts and institutions



applied to
lived on

WATT ROTARY ENGINE 1781



Forest Fires 1880 Census



Between Three Fires

Third Fire

MADE IN THE
UNITED STATES

FOR THE PRESIDENT OF THE UNITED STATES
BY THE SECRETARY OF THE INTERIOR
U. S. GEOLOGICAL SURVEY
WASHINGTON, D. C.



from sources to sinks

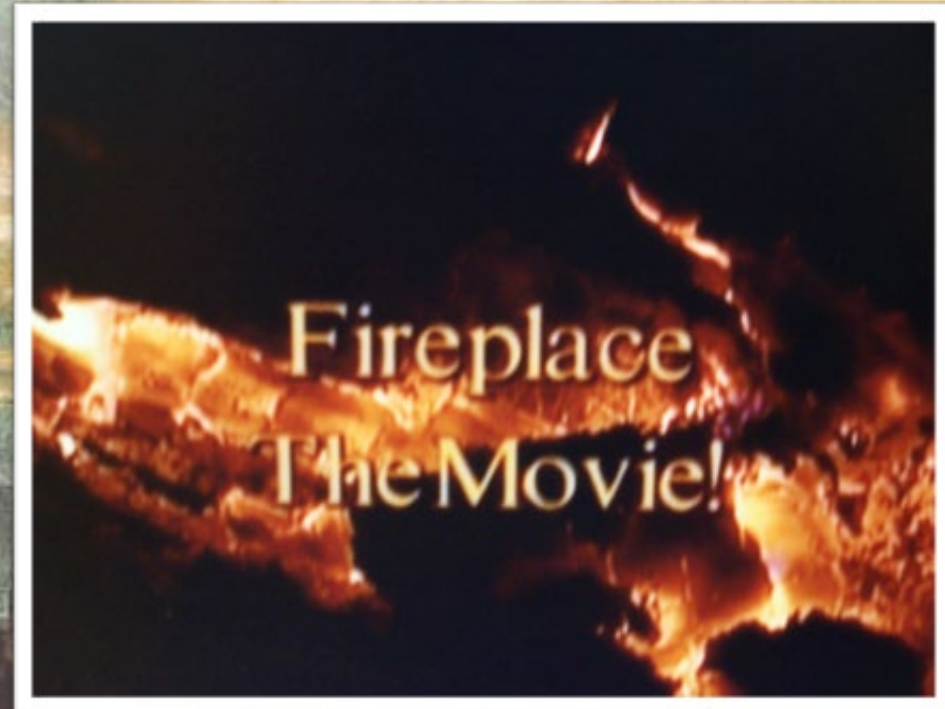
no ecological checks and balances

lithic landscapes

living landscapes

Pyric transition

DOMESTIC



Pyric transition

DOMESTIC

URBAN



Pyric transition

DOMESTIC

URBAN

AGRICULTURE



Pyric transition

DOMESTIC

URBAN

AGRICULTURE

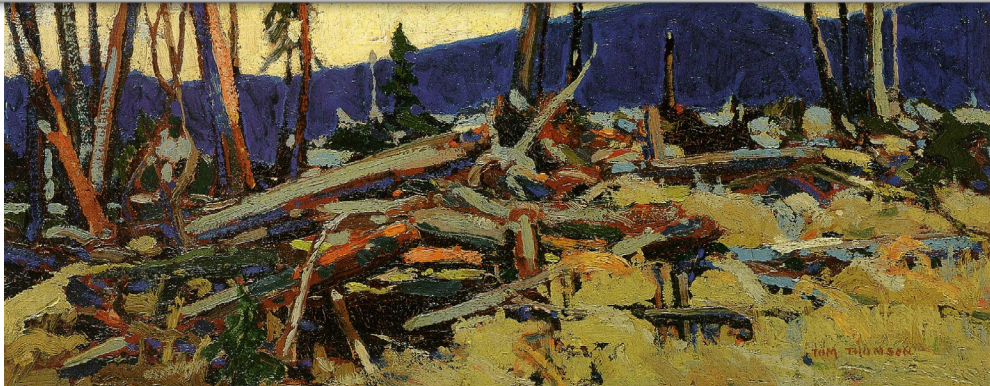
WILDLAND



Settler societies and fire



Fire control as founding doctrine of conservation



America's narrative

Big Blowup, big debate



America's narrative



Blowback leads to policy reforms (1968-1978)

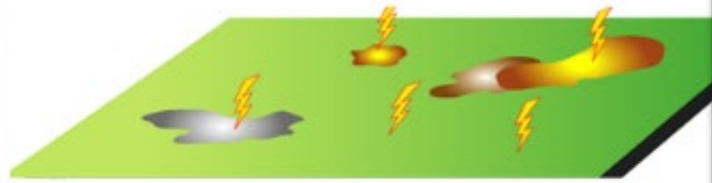


all this happens without climate change, which now acts as a performance enhancer and globalizer

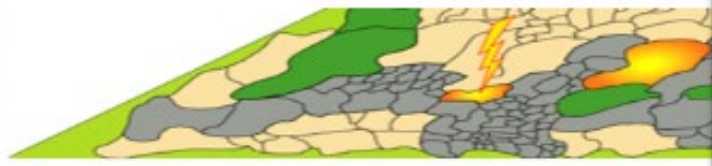


counterfire from industrial combustion

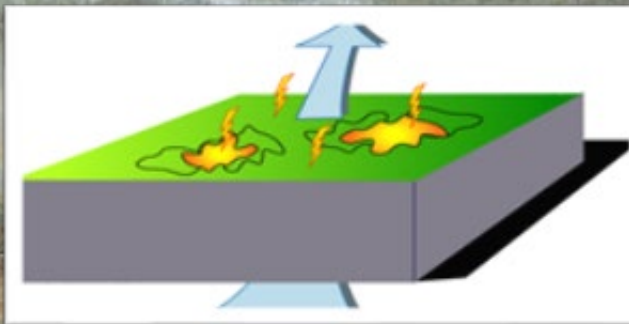
Fire's Big History



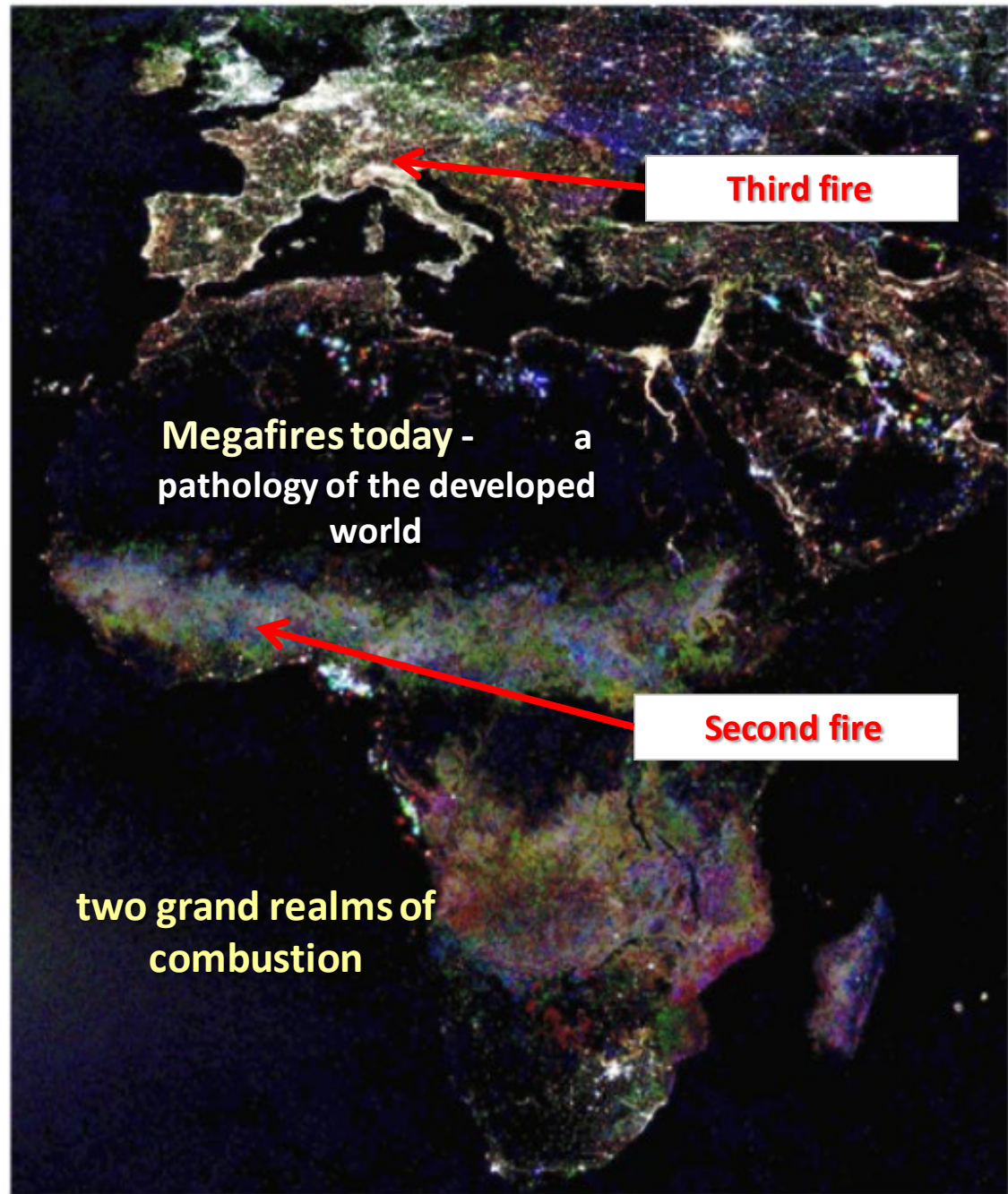
First Fire



Second Fire



Third Fire

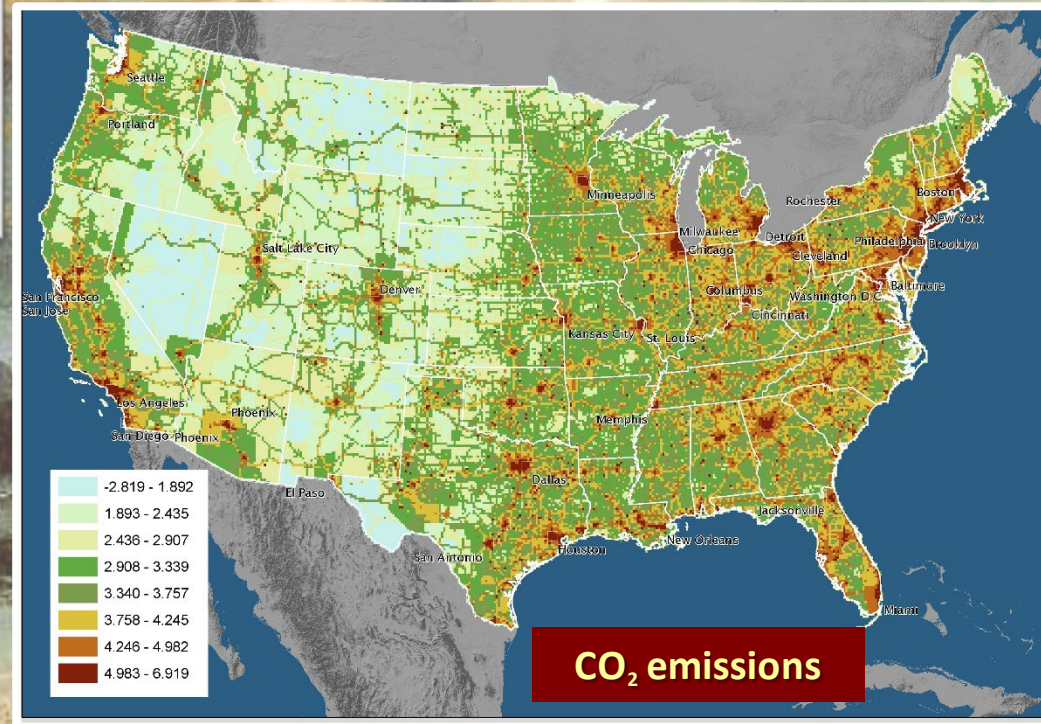
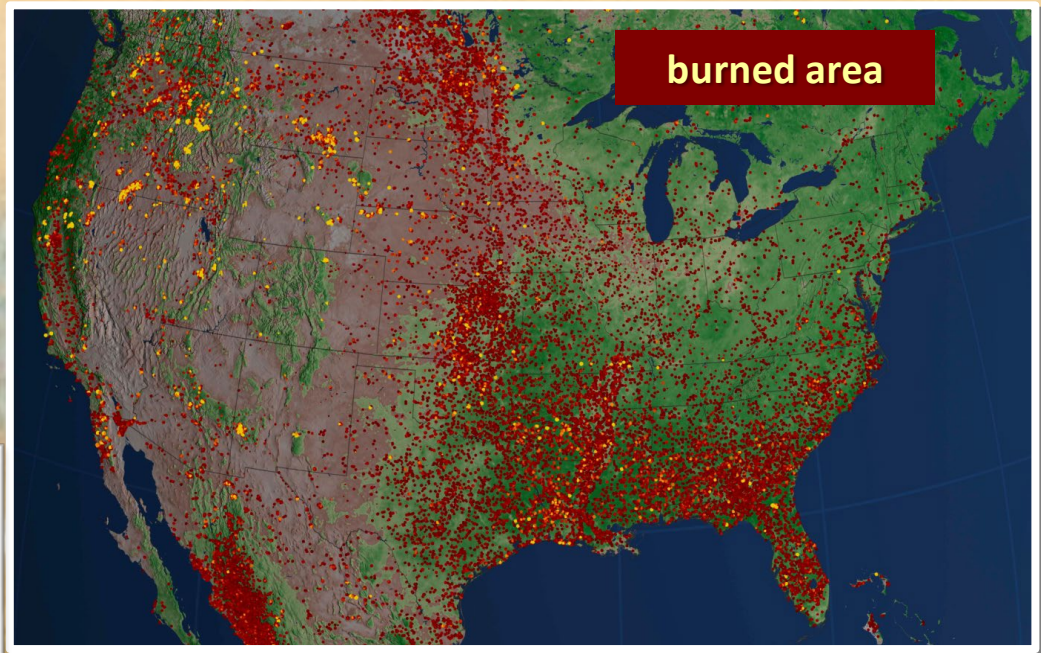


Fire's new geography

Fire map living
landscapes



Fire map lithic
landscapes



the Dark Side North Korea

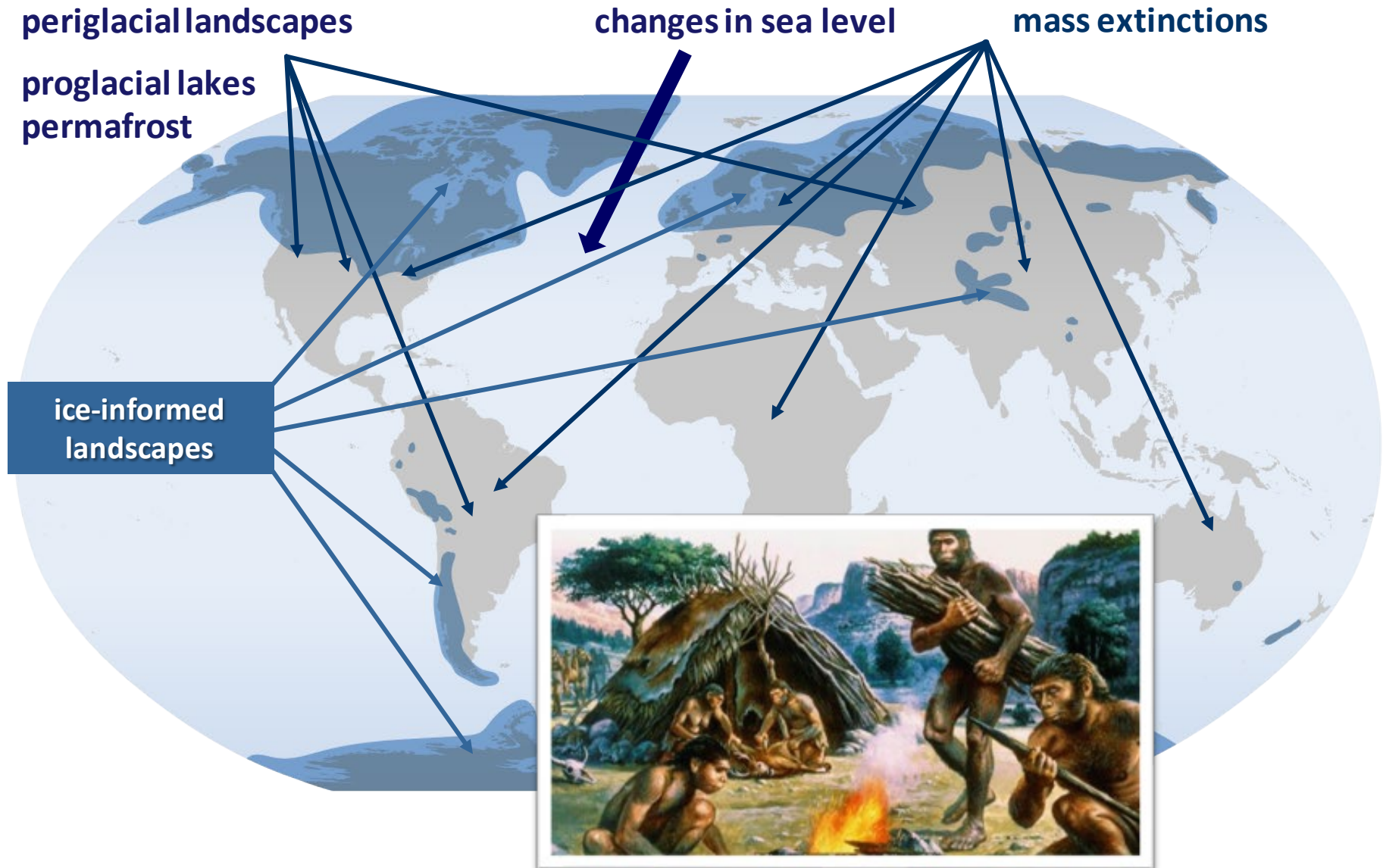


Sea of Japan

South Korea

The Pleistocene

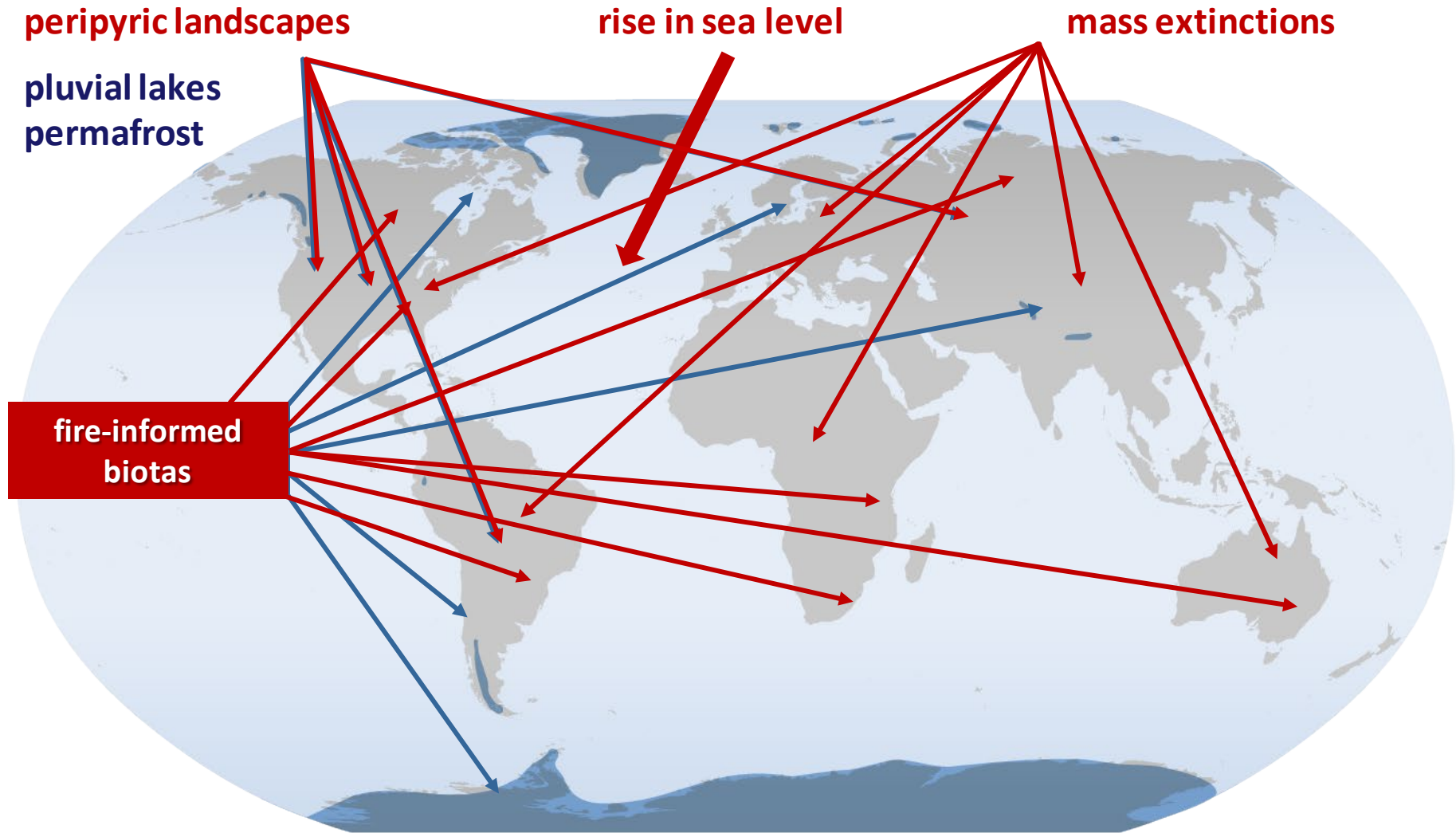
Climate change paced by Milankovitch cycles





The Pyrocene

Climate change from **anthropogenic fire**



The Pyrocene

Climate change from anthropogenic fire

peripyrlic landscapes

rise in sea level

mass extinctions

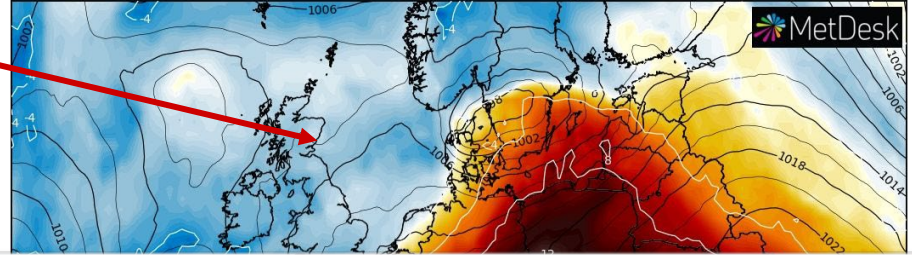
850 hPa Temperature Anomaly (°C)

GFS 0.25°

Base: CFSR 1979-2010 climatology

Run: Thu 10 Oct 06Z
Valid: Mon 14 Oct 00:00 UTC

MetDesk



fire-informed
biotas



The Pyrocene

now showing at a
planet near you



Climate history is
becoming a
subnarrative of fire
history.

**It's about living with a
fire age**



Fire in the Mind

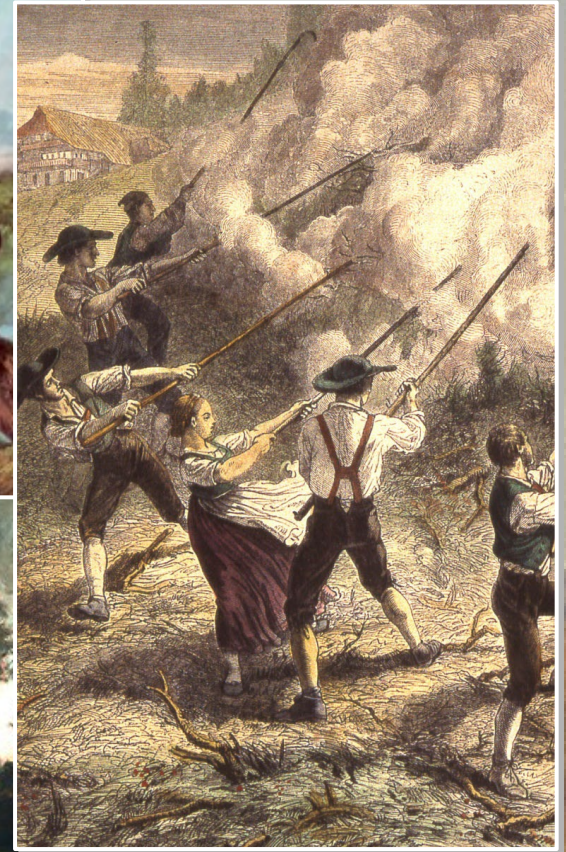
**New ways to
understand fire**

Recover traditional knowledge

Rediscover historical precedents

Reimagine fire science

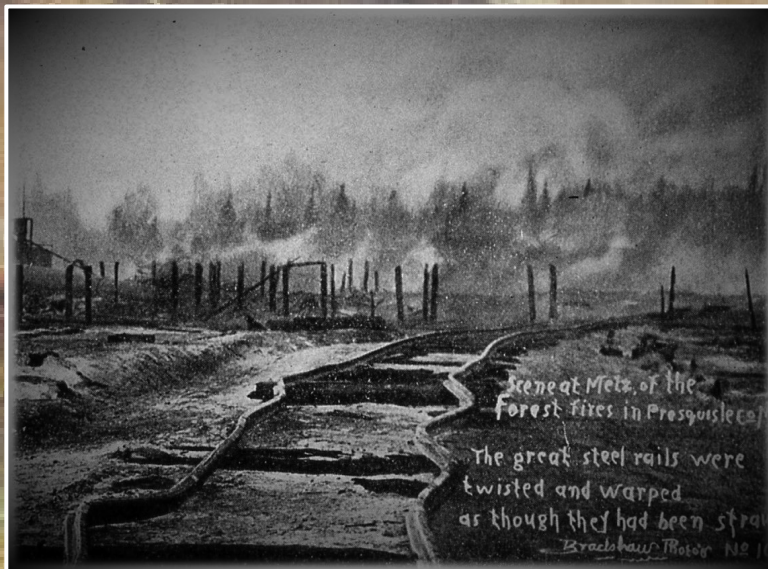
Recover traditional knowledge



Not just living with fire, but fire
as part of living



Rediscover historical precedents



Reimagine fire science

“V Thomas Kuhn, meet t
Heracleitos

Physical

Biological

Cultural

Reimagine fire science

Fireshed

Physical

Fundamentals

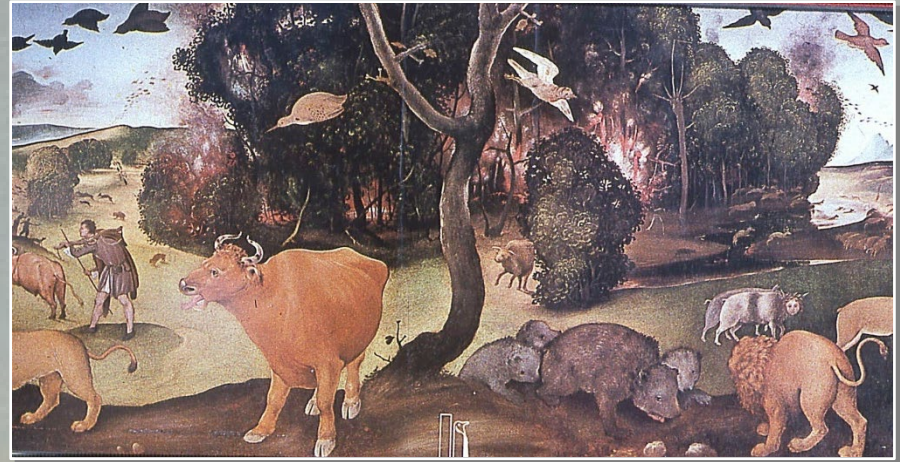
a
chemical reaction shaped by
physical setting

Control by physical
measures



Reimagine fire science

Fire habitat



Control by
biological
measures

Biological

Fundamentals
biologically constructed,
integrated by biota

Reimagine fire science

Fire landscape

Fundamentals

culturally constructed, integrated
by institutions, ideas, and
conventions

Control by
cultural
measures

Cultural



Reimagine fire science

Megafires – interpreting their meaning



Reimagine fire science

Mega-explanations

Physical interpretation

(analogous to)

Biological interpretation

Response –

- land use regulations and building codes
- reform institutions and policies
- redefine ideas and research
- treat as civil unrest or novel technology

Political interpretation

(analogous to)

Cultural interpretation –
land use and institutions
revolution)

changes in

(analogous to a riot or

revolution)



Reimagine fire science

Mega-explanations

Physical interpretation – climate
(analogous to tsunamis)

Biological interpretation – broken biotas
(analogous to
emergent disease; contagion of combustion)

Response –

- promote ecological health
- public health and safety - vaccinate, quarantine, emergency intervention
- alter living landscape (get ecology right)

Reimagine fire science

Mega-explanations

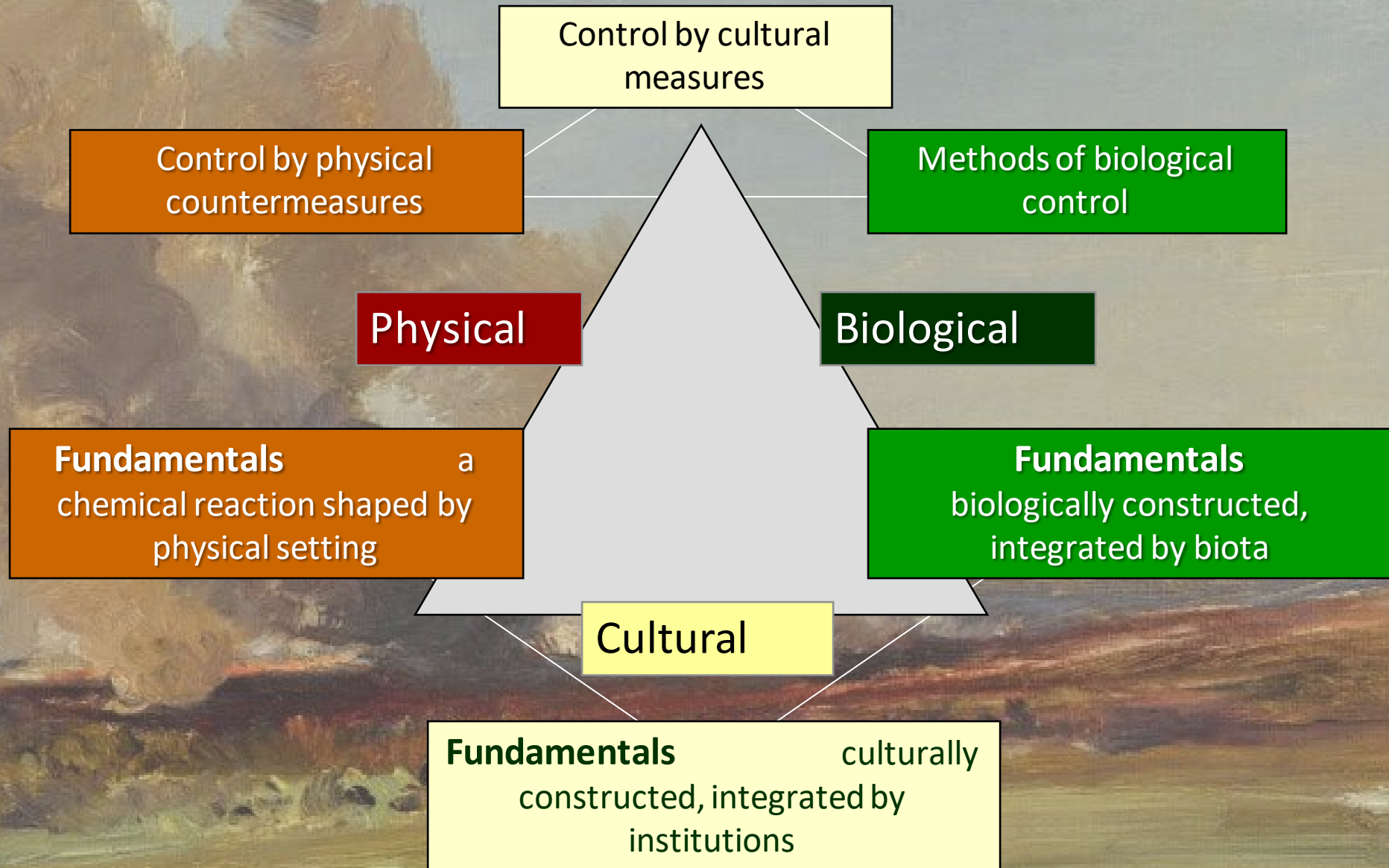
Physical interpretation – climate
(analogous to tsunamis or droughts)

Response –

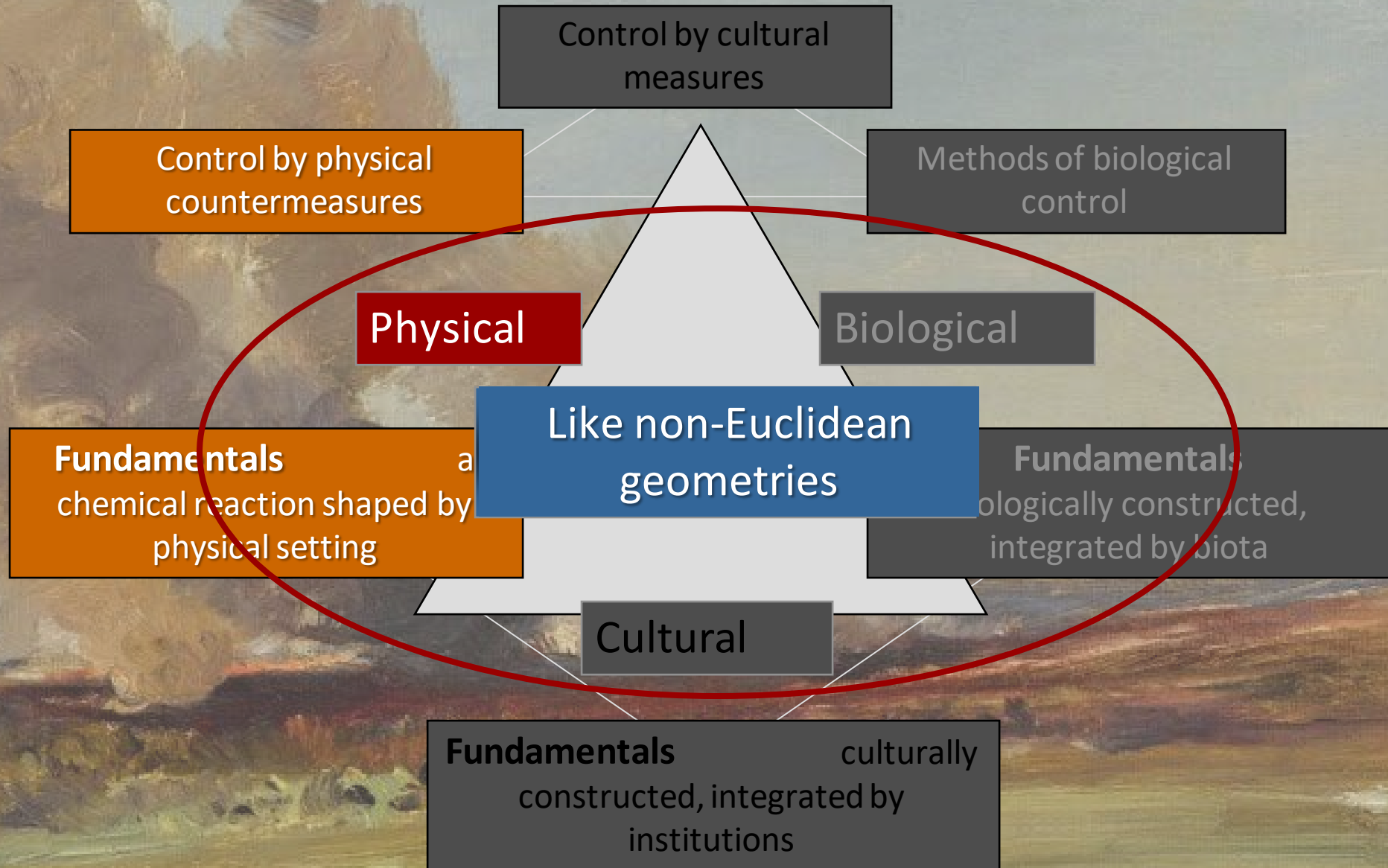
- fuels metric
- rearrange physical setting (get fuels right)
- evacuate



Reimagine fire science



Reimagine fire science





Fire in the Future

Defining the problem

Defining the good, the bad, and the ugly



Too much bad fire



Contrast to Europe



**Defining the good, the
bad, and the ugly**



**Too much bad fire, Too
little good fire**

**Build (and burn) back
better**



Defining the good, the bad, and the ugly



Defining beyond climate change

If we substitute renewables for fossil fuels but otherwise live the same way, we will have most of the same fire problems we have now.



Third Fire's Nature

fossil fuel combustion

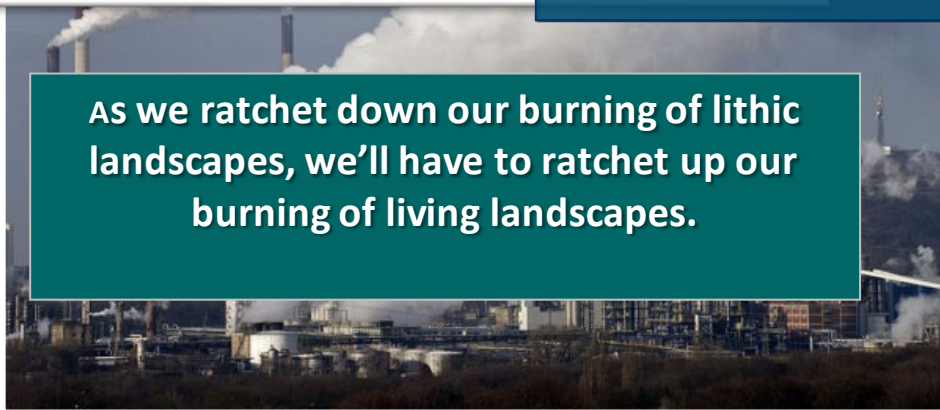
Fire
integrates it
all

excesses

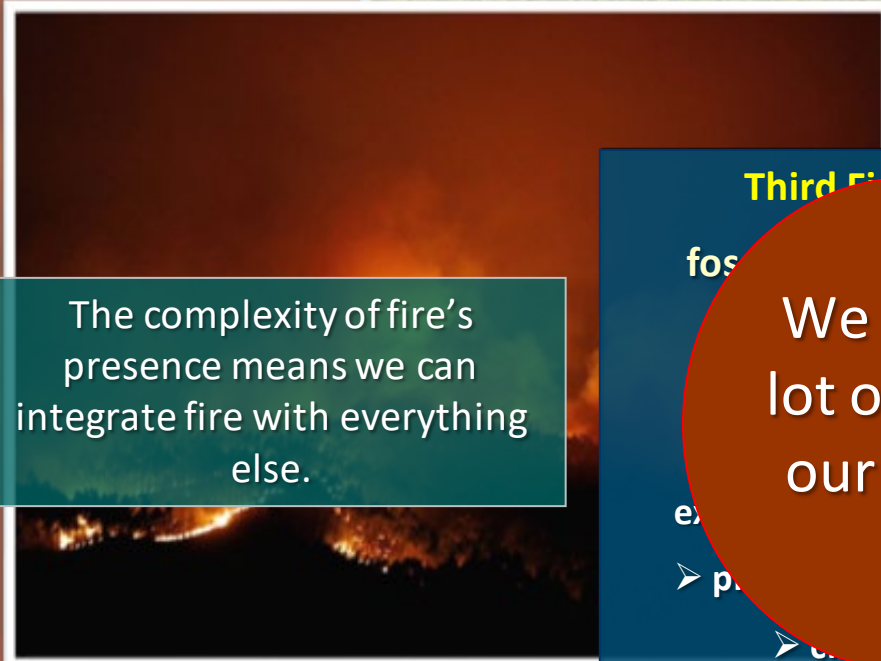
➤ physical chemicals

➤ climate change

As we ratchet down our burning of lithic
landscapes, we'll have to ratchet up our
burning of living landscapes.



Defining beyond climate change



The complexity of fire's
presence means we can
integrate fire with everything
else.

Third Fire: Nature

for

We have a
lot of fire in
our future

ex

- p
- c

➤ t



From passing between
two fires to passing
between three

“...they shall go out from one fire,
and another fire shall devour
them.” Ezekiel 15:7

Good fire made us. Bad fire may break us.



Black Thursday (1851)



Mallacoota (2019-20)



