



Cultural Heritage and Climate Change

April 15, 2020

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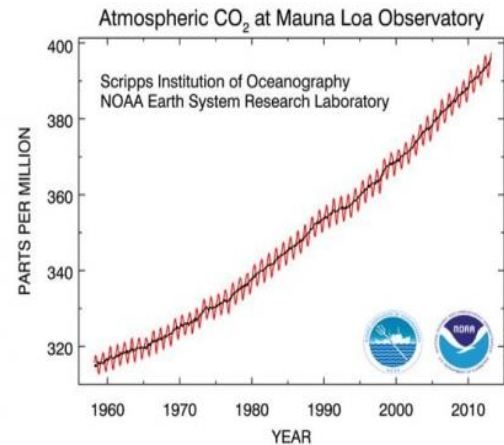
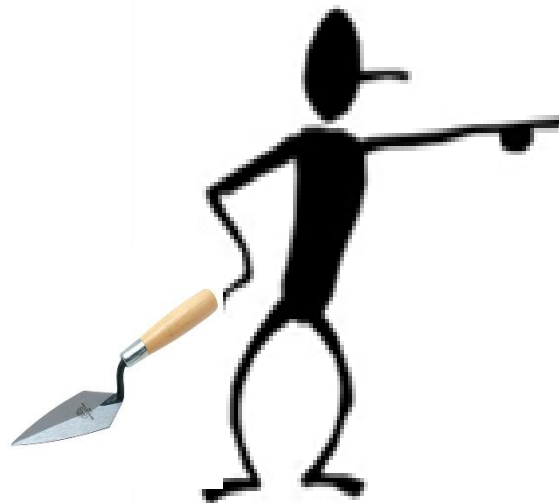
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Cultural Heritage and Climate Change

(particularly- how to expand use of archaeology in climate response)



Marcy Rockman

IPCC Scientific Coordinator, Climate Change and Heritage Working Group, ICOMOS

Climate Research, Co-Equal

(based in Washington, DC)

EESI Climate and Data Briefing Series, April 15, 2020



C=Equal

NEW RESEARCH IN

Physical Sciences 

Social Sciences 

Biological Sciences 

PERSPECTIVE

Expanding use of archaeology in climate change response by changing its social environment

 Marcy Rockman and Carrie Hritz

PNAS first published April 13, 2020 <https://doi.org/10.1073/pnas.1914213117>

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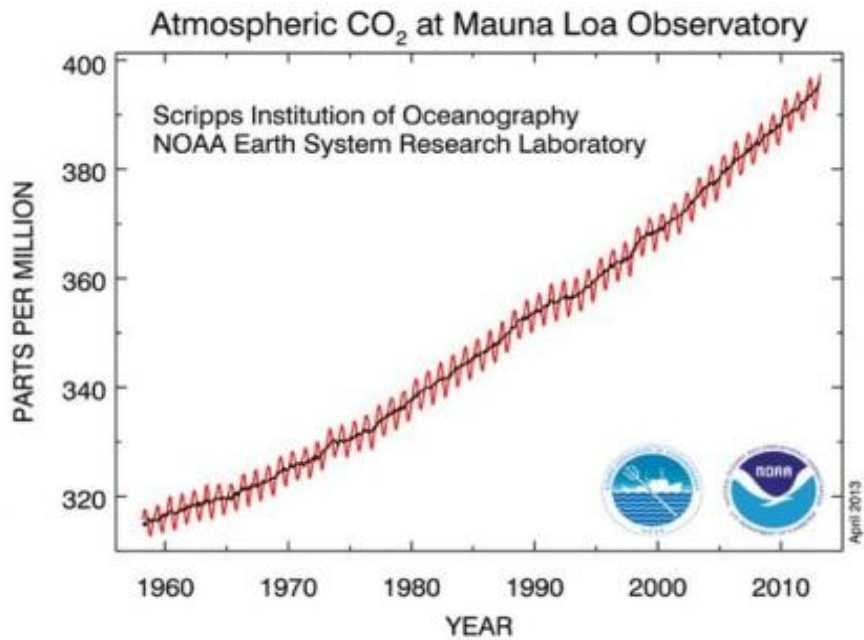


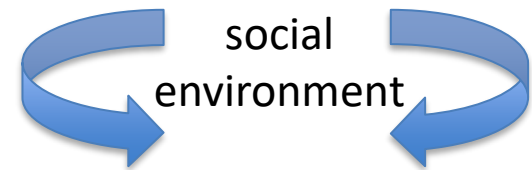
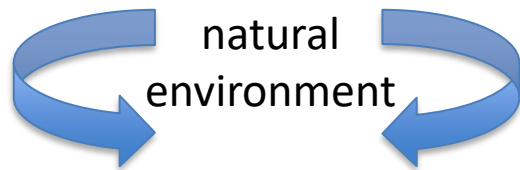
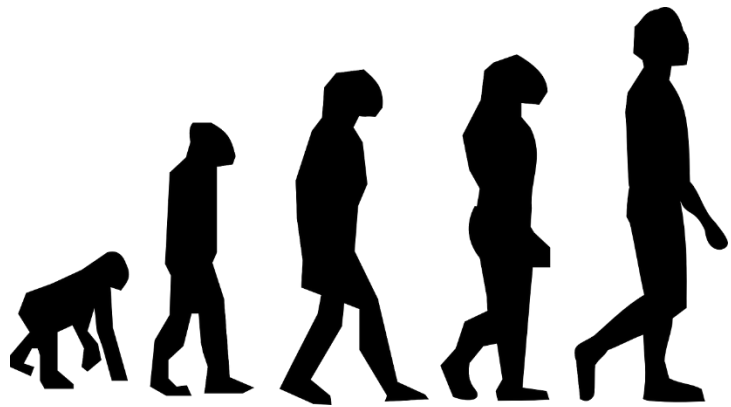
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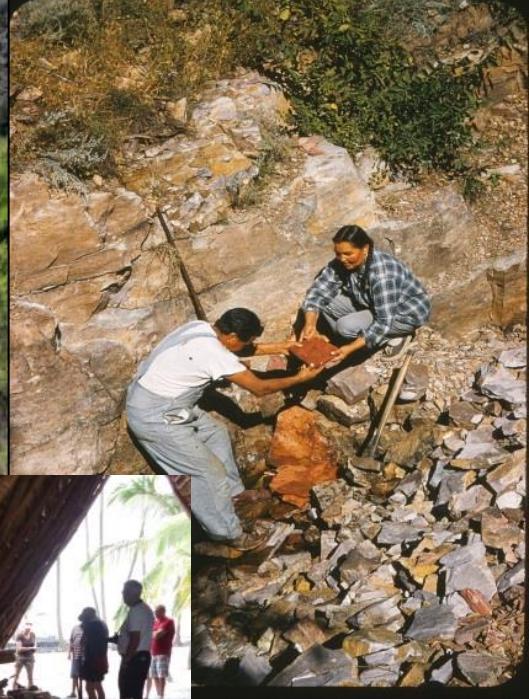


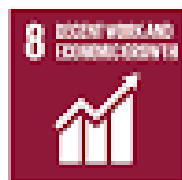
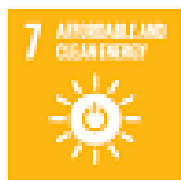
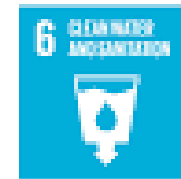
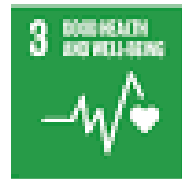
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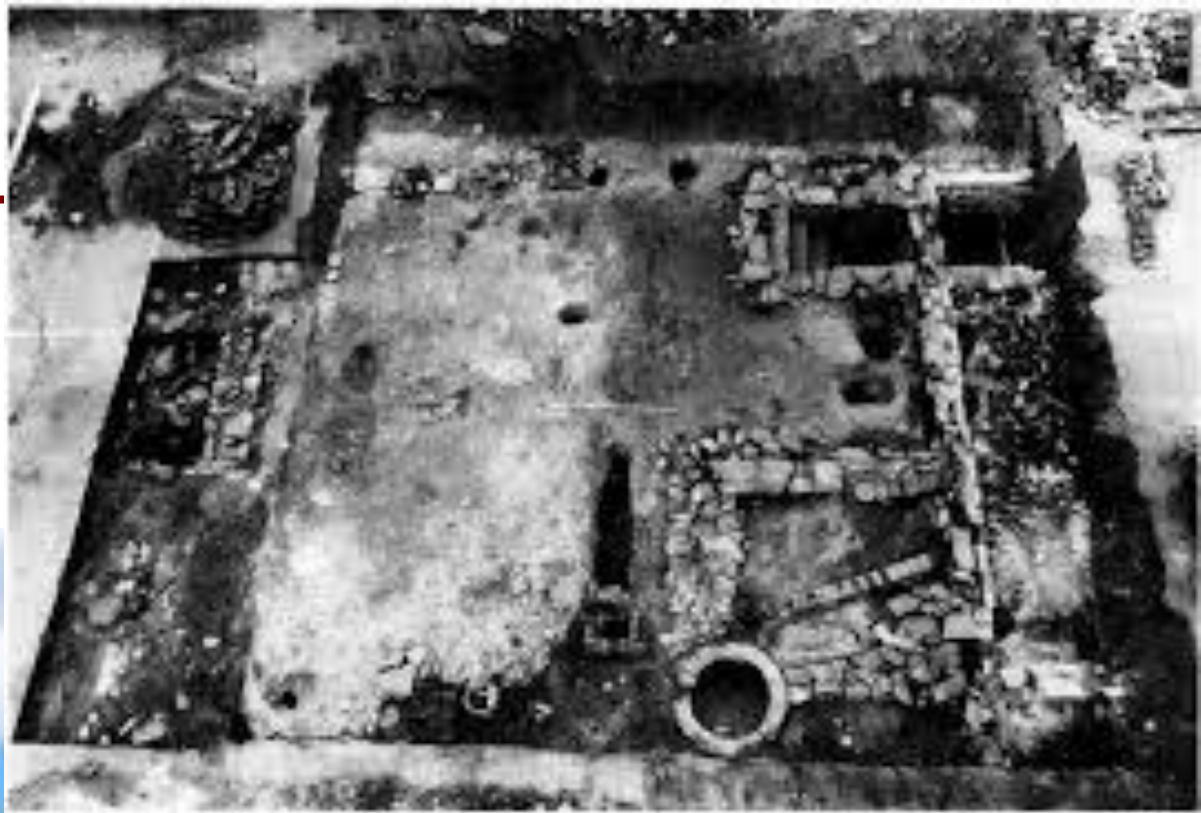














Criterion A: associated with events that have made a significant contribution to the broad patterns of our history

Criterion B: associated with the lives of significant persons in our past

Criterion C (summarized): embodies distinctive characteristics of a type, period, or method of construction, work of a master, possesses high artistic values, or a significant and distinguishable entity whose components may lack individual distinction

Criterion D: have yielded or may be likely to yield, information important in history or prehistory



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Historic England



HISTORIC
ENVIRONMENT
SCOTLAND

ÀRAINNEACHD
EACHDRAIDHEIL
ALBA



HELLENIC REPUBLIC

Ministry of Culture and Sports



PERÚ

Ministerio de Cultura



~2/3 US National Parks established to preserve cultural heritage

From 1995-2008*:

NPS funding for natural resources increased by 71%
NPS staffing for natural resources increased by 31%

NPS funding for cultural resources decreased 19%
NPS staffing for cultural resources decreased 27%



(*data from: F. Hodsoll, J. Kunde, D. P. Galvin, Saving Our History: A Review of National Park Cultural Resource Programs (National Academy of Public Administration, Washington, DC, 2008))



U.S. Global Change Research Program

Natural Environment Agencies

Cultural Environment Agencies





- Archaeology

- Receives approximately 5% of Behavioral and Cognitive Sciences (BCS) Division of the Social, Behavioral and Economic Directorate budget
- In 2019, BCS was funded with approximately \$83 million; Archaeology share ~\$4m

National Ecological Observatory Network (NEON)

- One of NSF's programs for study of the natural world,
- In 2017 NEON funded with \$80 million
- Has received approximately \$633 million since its founding in 2007

Focus Areas of Major Climate and Conservation NGOs

Conservation International

Major topics: Climate, Food, Forests, Fresh Water, Global Stability, Livelihoods, Oceans

Global Environment Facility

Major topics: Biodiversity, Chemicals and Waste, Climate Change, Forests, International Waters, Land Degradation

Nature Conservancy

Major topics: Tackle Climate Change, Protect Land & Water, Provide Food & Water Sustainably, Build Healthy Cities

Resources for the Future: Climate Change

(Summarized): Technology transfer for sustainable energy, Mitigation options, Connecting mitigation and sustainable development

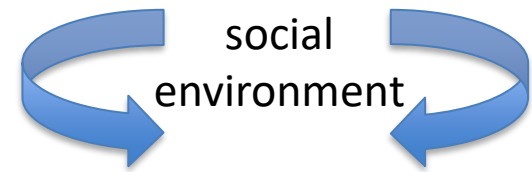
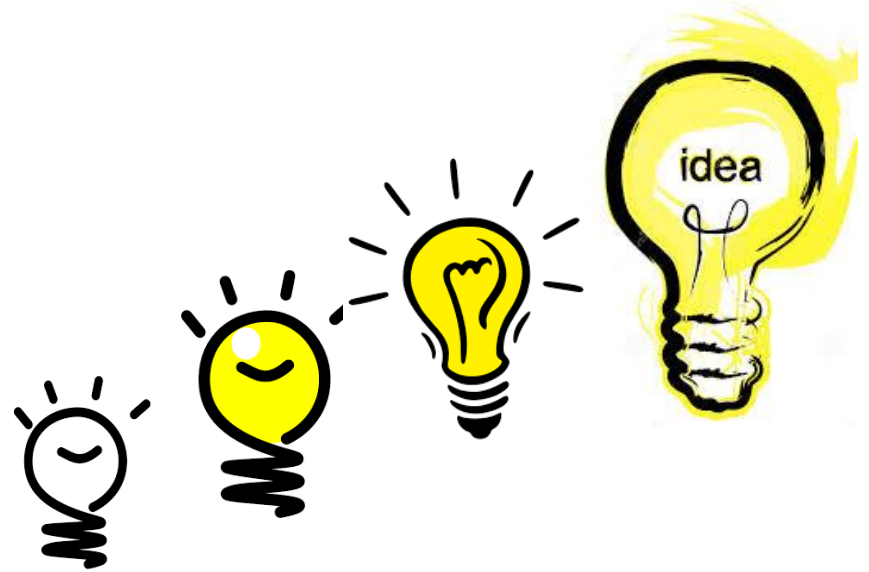
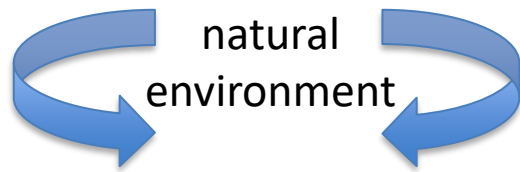
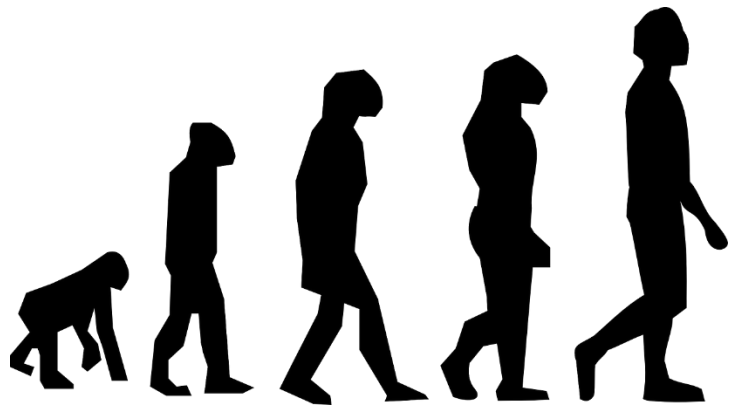
Rockefeller Foundation

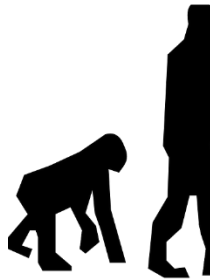
Major topics: Health, Food, Power, Jobs, Resilient Cities, Innovation, Co-Impact

World Resources Institute: Climate

International Climate Action (summarized): Transparency, NDCs, Carbon removal strategies, Power, China, Economy and Finance, Equity

(sources: websites of each organization as named, see Rockman and Hritz 2020 for more detail)





- Frequency bias – choose that which is most common

≈ availability heuristic (behavioral economics)

- Prestige bias – choose that which is done by highly visible or high status people or organizations



1. Found a named federal climate heritage coordination office
2. Link archaeology and heritage in climate research and investment
3. Foster climate heritage demonstration projects
4. Expand climate NGO attention to archaeology and heritage

Thank You

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[#climateheritage](https://twitter.com/hashtag/climateheritage)

[#culture4climate](https://twitter.com/hashtag/culture4climate)



(help with archaeology of sustainability in Iceland,
summer 2013)



Cultural Heritage and Climate Change

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