Cultural Heritage: Addressing NELD due to Climate Change

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Cultural Heritage Includes:

- Archaeological sites
- Buildings and Structures
- Cultural Landscapes
- Ethnographic Resources
- Museum collections (including archives)
Cultural Heritage NELs

Information

Identity
NPS Climate Change Response Strategy: 4 Pillars

Working w. data, trends, observations:

- Climate Projections/Modeling
- Inventory/Monitoring

What to do with data – decisions, planning:

- Natural Resources & Cultural Resources Management
- Scenario Planning
- Facilities Management

Reducing NPS environmental footprint:

- Reducing Emissions
- Improving Sustainability

Sharing, learning, and engaging NPS and public w. Science, Adaptation, and Mitigation:

- Interpreter Training
- New Exhibits
- Intern & Fellowship Programs

Additional topics:

Science

Mitigation

Communication

Identity
NPS 2x4 Concept Framework for Climate Change—Cult. Heritage

Dual approach: impacts on heritage | information and identify anchored in heritage

**Science**
- Climate science@CR scales
- Vulnerability assessments
- Inventory – Monitoring
- GIS
- Preservation science
- Documentation science

**Mitigation**
- Paleoclimate
- Social climatic thresholds
- Shifting baselines
- Traditional ecological knowledge
- Past land use
- Paleogenetics
- Historic buildings in energy efficiency
- Resource conservation via historic or native landscapes
- Past architectural and landscape techniques suited to local environments
- Cultural heritage conserve/re-establish sense of place and stewardship

**Adaptation**
- Scenario planning
- Adaptation approaches
- Decision frameworks
- Policy and standards
- Research to support decision and policy
- Past social adaptability to past env. change
- Traditional ecological knowledge
- Relating past adaptability to current issues, methods, decisions

**Communication**
- Cult. resources climate change (CR-CC) literacy
- Dialogue between impacts and information in all pillars
- Links between CR-CC managers-researchers (local-international)
- CR-CC links to public
- Every Place has a Climate Story:
  - Change in the material world
  - Change in experience & lifeways
  - Lessons in change from past societies
  - Origins of modern climate situation
Study of human behavior

Heritage as important

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- 20c history
- Inherent uncertainties

Background of Cult. Heritage in Global Climate Efforts
A-2. Adaptation Experience

Throughout history, people and societies have adjusted to and coped with climate, climate variability, and extremes, with varying degrees of success. This section focuses on adaptive human responses to observed and projected climate-change impacts, which can also address broader risk-reduction and development objectives.
Community in Scotland

Sites at Risk

Map data ©2016 GeoBasis-DE/BKG (©2015, Google)

Scotland’s Coastal At Risk

We are in Caithness - working with local people (not so local - GeoF has come all the way from the USA to join us!) to survey the coast. Yesterday we were at Muckle Bay, where an eroded Boat House has had a World War II tank trap placed over it. We’re near Thurso until Tuesday, so contact elgg@st-andrews.ac.uk if you fancy joining us.

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1. Cultural heritage includes impacts on and learning from

2. We are the change: adaptation for cultural heritage lies in our management of it

3. Prioritization should be based on vulnerability and significance

4. Significance should reflect input of stakeholders: contemporary communities with scientific importance, etc.

5. Plan for some goodbye: it will not be possible to save all heritage

6. Every place has a climate story, from how we see and understand change and to origins of modern climate change; cultural heritage should be an integral part of climate change communication.

**For vulnerable heritage, options are:**

1. No active intervention
2. Offset stresses
3. Improve resiliency/modify resource
4. Manage change
5. Movement
6. Document (prior to loss)
7. Interpret the change (*climate change is heritage of future*)
Growing Cultural Heritage Networks…

Citizen science for coastal impacts

Preservation during conflict
Thank you

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