A Climate Change Resource-Linked Concept Map: Its Story and Navigation

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Today’s Path

- Overview of the concept map
- The story of the development of the map
- Navigation of the map
- Questions
Overview: the Quick Tour

- The resource-linked concept map is web-based:

  [http://cmapspublic2.ihmc.us/rid=1QFJ88YMG-M7FBBS-5N06/Climate%20Change%20Bite-Sized2.cmap](http://cmapspublic2.ihmc.us/rid=1QFJ88YMG-M7FBBS-5N06/Climate%20Change%20Bite-Sized2.cmap)
Origins of the Idea: Why a Concept Map?

Cornell University in the 1970s and 1980s

Research tool

Learning tool
1990s: What do we learn from teaching environmental science?

“You know, Gene, global warming is **REALLY** complex.

*The atmosphere, the oceans, the land surface are all interacting.*

*Magnitude of the causes is uncertain.*

*So many consequences.*

Let’s map it! “

It started as a ‘learning to learn project.’
Origins of the idea:
Why a resource-linked concept map?

Confusion in 1990s and early 2000s

Evidence of human fingerprint

The needs of teachers and learners for evidence-based resources
Why the layered look?

- The original map was completely text. Cognitive overload: need for layers and visuals

- Decided that the homepage should be oriented the way people read while more detailed layers kept their hierarchical structure

- Needed to reach audiences with different needs. People enter this world through different portals.
What are the layers: entry points?

The following layers respond to different needs:

- **Layer 1:**
  “I’m new at this. I need an overview of climate change. Causes, impacts, solutions. PLEASE keep it simple.”

- **Layer 2:**
  “I know enough. I just want to DO something.”

- **Layer 3:**
  “I work in the educational system. Where are the resources I need for my job?”

- **Layer 4:**
  “I’m a teacher with specific resource needs.”
What are the sources of the resource links?

- NAAEE: eePro Climate Change
- NSTA: articles, webinars, other resources
- CLEAN: Teleconference presentations
- Mass Audubon, Elizabeth Duff
- Global Warming So What? Gene Fry
- Cornell University MOOC; Marianne Krasny
- Attendance at professional conferences

NOT from a google search
How do you navigate the map?

- Browsing in the forest
- Videoclip on how to navigate
- Let’s take a leisurely tour and then take questions!

http://cmapspublic2.ihmc.us/rid=1QFJ88YMG-M7FBBS-5No6/Climate%20Change%20Bite-Sized2.cmap
Questions

Yours?
Questions

- How can the map be applied to your professional work?
- How can you be empowered to edit and update the map for your own purposes?
- What is the future of the map? Can it contribute to the emerging idea of a Climate Change Education Toolbox?