

# David Titley

Currently at Penn State as Meteorologist

## Arctic 2015 and Beyond

A Strategy for U.S. Leadership in the High North

Center for a New American Security

Alexander Wiker, Dr. David Titley and Elizabeth Rosenberg

Pushing Past Politicization: An Interview With Rear Admiral David Titley

<http://www.solutions2wxrisk.psu.edu/2017/03/20/pushing-past-politicization-an-interview-with-rear-admiral-david-titley/>

Cameron - UNH Platinum Sustainability (Colorado State and Stanford?)

PSU-Villanova might be interested

Liz -- Titley asks if NH has SNOTEL (Snow Telemetry) to compare with Colorado, etc.

<https://www.wcc.nrcs.usda.gov/snow/>

Liz said "No"

NGOs Grand Teton and Yellowstone has fast snowmelt

Does NH have fast snowmelt too?

**Kurt Grimm** Carsey School Dept Dir. -- focus on poverty and community

Titley mentioned a blog on the social results of hurricanes (Cliff Mass)

<http://cliffmass.blogspot.com/2017/08/global-warming-and-hurricane-harvey.html>

Idea of developing infrastructure that can respond to our CURRENT climate...irrespective of climate change

(Note: "Resilience" is a term often associated with Obama)

Larry Hamilton

Large-scale surveys

Next week NH severe weather

Often opportunistic -- add a question to other surveys

Have longitudinal surveys quarterly since April 2010

Yale uses different approach -- Six Americas

<http://climatecommunication.yale.edu/about/projects/global-warmings-six-americas/>

Hurricane Sandy - slight blip.

In general upward trend.

Climate Gate (2009) - caused drop. "Lost a decade"

Hamilton says temperature 2-days before survey makes a big difference

Wil Wollheim -

LTR network -- <https://lternet.edu/lter-sites>

**Long Term Ecological network**

Plum Island LTR -- <https://lternet.edu/sites/pie> -- <http://pie-lter.ecosystems.mbl.edu/>

David Divins

Methane Hydrates - Gulf of Maine

Tide is changing among Republican Reps -- include climate language in DOD

Navy Taskforce on Climate (as opposed to Taskforce on Arctic)

<http://www.navy.mil/navydata/documents/CCR.pdf>

<https://climateandsecurity.org/tag/u-s-navy-task-force-climate-change-tfcc/>

Need to find language to reach people

storm-surge index

feels-like index

seems-like index (seems like August)

Titley strategy:

**Can we agree things are changing?**

**Can you tell me when it is going to stop?**

**Draw a straight line**

ask "What are we going to do about it?"

### **Chronic change vs episodic change**

from a social science perspective, this is a meaningful difference

Katharine Hayhoe

<https://www.theguardian.com/environment/climate-consensus-97-per-cent/2017/aug/28/study-katharine-hayhoe-is-successfully-convincing-doubtful-evangelicals-about-climate-change>

Ethics --

ESPC - Earth Systems Prediction Capabilities - 0-30 yrs (30 yrs ship lifetime)

sea level rise - recurrent flooding

transient impacts - flooding

no correlations between where you live and what you believe about flooding

### **Politics are tribal**

Cameron - If a climate catastrophe happens in NH, can't expect "the cavalry to come" - They'll go to Boston but not here.

Puerto Rico -- use example of Guam that is continually hit by typhoons...but make of concrete

People want what they have now - -not change

**Have conversations with community before something happens -- to build consensus for what to do when it does happen.**

**After disasters everyone just wants their life back to the way it was.**

Example of UMASS Boston hydrologist who is preparing Boston neighborhoods for storm surges and sea level rise.

Cultural sensitivity

Talk in their language not yours - sense of security

**Don't get trapped in political false debates.** -- like dog playing fetch. Politicians throw the ball...and climate scientists take the bait and go fetch it.

### **Strategy**

**"Don't tell me what to do"**

**Cost**

**Job**

**NH is going to be a place where we do well with climate change**

West - has fires

South -- water

**To advocate for climate solutions**

**Make it local**

Solutions

**Litigation**

**Storage - moving energy, efficiency**

Climate/carbon tax

Pentagon

Skeptical but not ideological

Linear forecast - **"Rudder in the right direction"**

Barriers and opportunities for scientists to get more involved

How to make this cool - Catherine Hayhoe

**Everyone has a story** -- have to think about what it is.

Talk about great things fossil fuels have brought us.

Be careful of demonization - plays into our "tribes"

