



# **CLIMATE CHANGE**

“Global Climate Change Education:  
Sharing the Science and Promoting the Solutions  
with New England Citizens”

Karin Jakubowski  
Clean Air – Cool Planet

CLEAN

AIR



COOL

PLANET

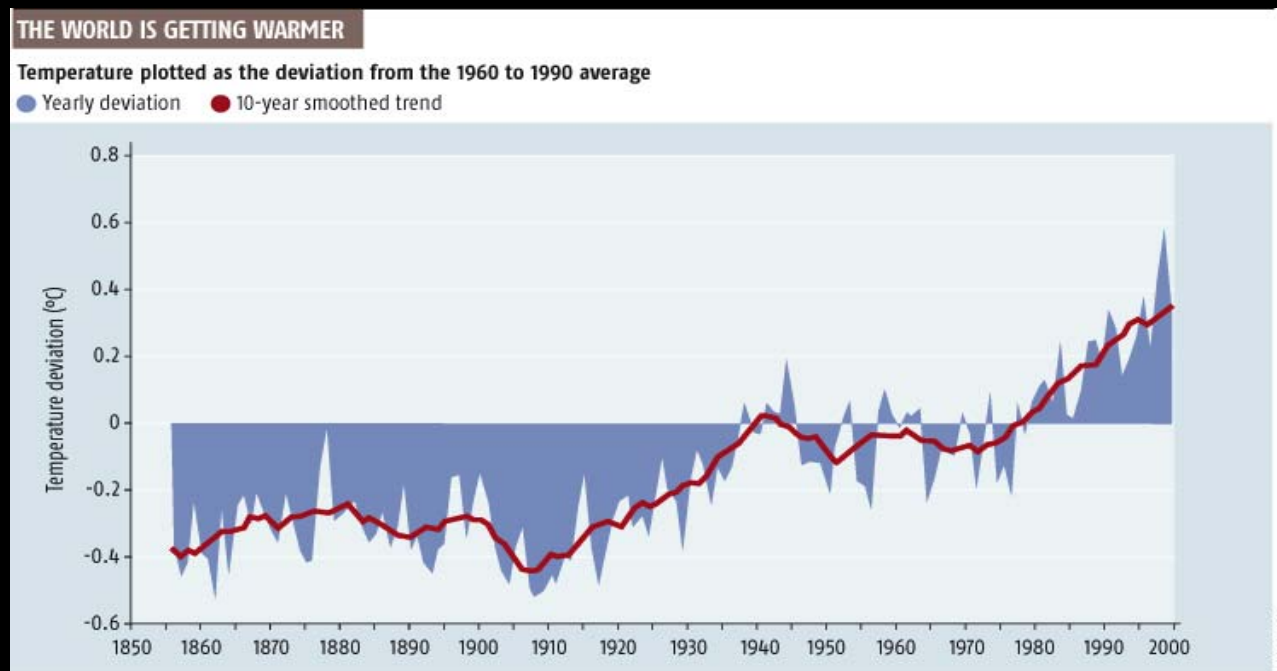
***Clean Air-Cool Planet creates partnerships in the Northeast to implement solutions to climate change and build constituencies for effective climate policies and actions.***

# Global Problem – Local Solutions



# Human Activities

- **Starting 150 years ago, human activities have contributed to rapid temperature increase.**



# How Will Climate Change Affect the New England Coast?



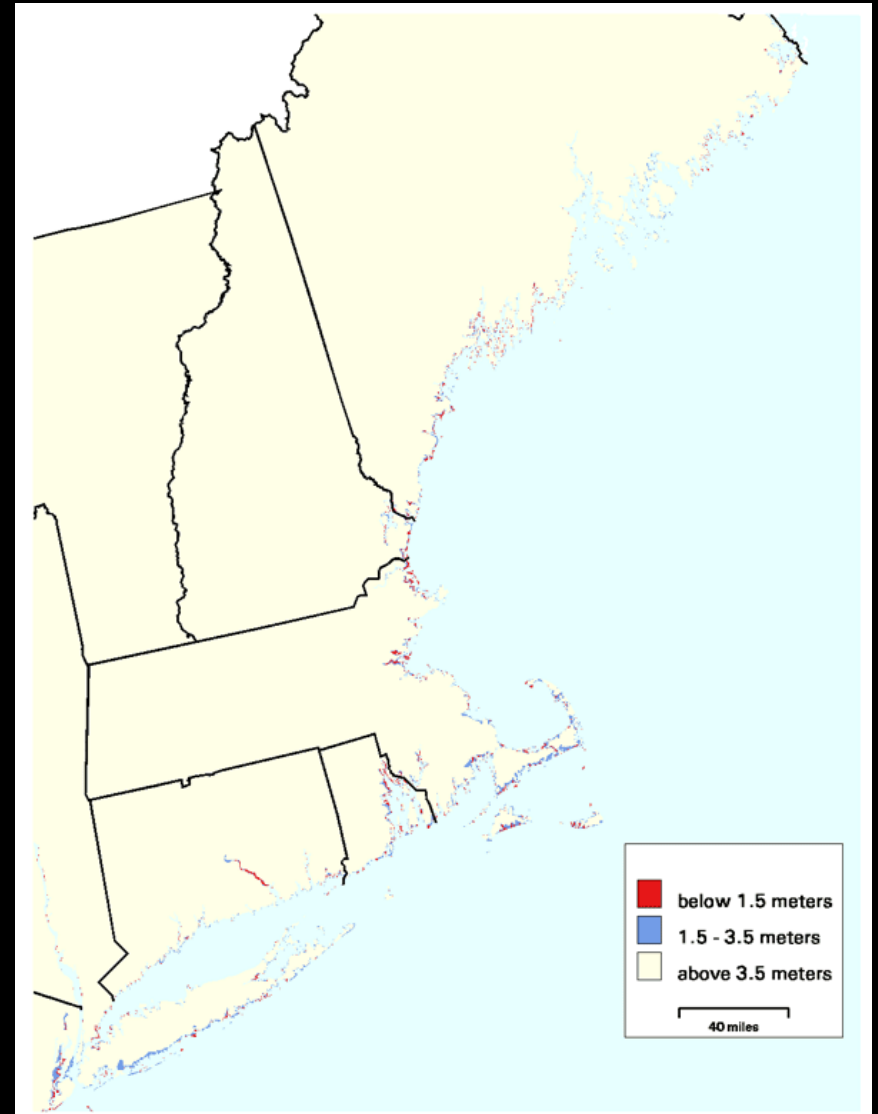
# Sea Surface Temperature

- Warmer seas could contribute to the increased intensity, duration, and extent of harmful algae blooms, which damage habitat and shellfish nurseries



# Sea Level Rise

- In Connecticut, sea level is likely to rise 22 inches by 2100
- Cumulative costs through 2100 to protect CT's coast from a 20 inch sea level rise could be .5 - \$3 billion dollars



# Storms

- A warmer atmosphere amplifies the potential for destructive weather like more intense northeasters and stronger hurricanes that generate greater amounts of rainfall.



# Impacts on Wildlife



# Erosion



# Loss of Recreational Use



# What Can We Do?

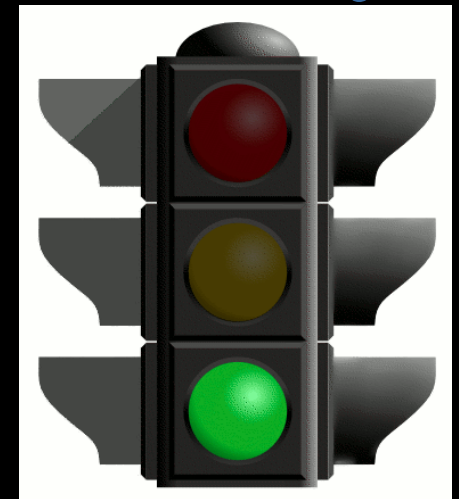


# Climate Champions

- Real Life examples
- Individuals, Youth, Families, Schools, Universities, Businesses, Religious groups, Communities, Cities, States
- There is no “one size fits all approach”

# Climate Champions Cities

- Keene, New Hampshire
- LED – (light emitting diode technology)
- Reduce Carbon dioxide emissions by 15 tons annually
- Cost - \$19,000
- Save - \$10,000 a year



# Businesses

- Timberland - Since 2005 has reduced its greenhouse gas emissions by 10%
- Provided financial incentives to employees for purchasing fuel-efficient hybrid vehicles

# Climate Champions Universities / Colleges

- Reduce greenhouse gas emissions within state agencies - 25% by 2012
- Massachusetts Clean Powered Campuses

# Climate Champions State

- Several Vermont State Agencies along with the Coalition of Northeastern Governor's launched Vermont's methane project



- Store manure in anaerobic digesters, accelerates methane production, and then captures the methane for use.



- 300 cow farms in Vermont
- Reduce methane emissions by about 63 tons a year
- Equivalent to 1,325 tons of carbon dioxide

# Climate Change Champions Youth

- Cool It! The Climate Change Challenge
- Middle and high school students develop and implement local solutions to climate change



# Climate Champions Families

- Homes that have highly efficient, environmentally sound technologies



- And individuals who are taking steps to reduce their carbon footprint

CLEAN  
AIR



COOL  
PLANET

Karin Jakubowski

Clean Air - Cool Planet

[Kjakubowski@cleanair-coolplanet.org](mailto:Kjakubowski@cleanair-coolplanet.org)

203-966-5693