



Integrating Climate Resilience into Your CEDS

Summertime with the CEDS
July 16, 2020





Many thanks!






Summertime with the CEDS | Summer 2020

Live webinars, pre-recorded presentations, and much more brought to you by the NADO Research Foundation all summer long. Visit www.nado.org and www.CEDSCentral.com to learn more.



The background of the slide is a photograph of a sunset or sunrise over a body of water. The sky is filled with dark, heavy clouds that are illuminated from below by the sun, creating a vibrant orange and yellow glow. The sun itself is a bright, horizontal band of light just above the horizon. The water in the foreground is dark with some ripples, reflecting the light from the sky. In the distance, a city skyline is visible, with several buildings and trees silhouetted against the bright horizon.

Resilience:

The ability of a region or community to anticipate, withstand, and bounce back from shocks, disruptions, and stresses including:

- ❑ Weather-related disasters or hazards / Impacts of climate change
- ❑ The closure of a large employer or military base
- ❑ The decline of an important industry
- ❑ Changes in workforce / effects of automation
- ❑ COVID-19 response & recovery
- ❑ Much more...

Resilience:

What Do the CEDS Content Guidelines Say?

Economic resilience becomes inclusive of three primary attributes: **the ability to recover quickly from a shock, the ability to withstand a shock, and the ability to avoid the shock altogether.**

Steady-state initiatives tend to be long-term efforts that seek to bolster the community or region's ability to withstand or avoid a shock.

Responsive initiatives can include establishing capabilities for the economic development organization to be responsive to the region's recovery needs following an incident.

Visit: www.eda.gov/CEDS

Resilience: What Do the CEDS Content Guidelines Say?

The two-pronged approach to resilience noted above can be included in the CEDS as a **separate section**. However, resilience could also be addressed by **weaving the concept throughout the document**.

Regardless of how resilience is included in the CEDS, it is critical for regions to **identify vulnerabilities** and, where possible, **bolster the capacities** that may lead to economic resilience as part of regional planning efforts.

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Why **Regional** Resilience?

- Nearby communities often share similar risks/hazards
- Disaster impacts cross jurisdictional boundaries
- Communities are interdependent
 - Vulnerabilities in one community could impact another.
 - Mitigation investments in one community could impact another (positively or negatively).
- Economies are regional in nature
- Communities can accomplish more when they work together



Stronger CEDS, Stronger Regions

CEDS Resource & Training Archive

www.CEDSCentral.com

Thanks for Joining the Webinar!

- Questions or comments can be submitted via the chat box on the right side of your screen in drop down menu
- A recording of the webinar will be made available soon at www.nado.org & www.CEDSCentral.com
- Upcoming webinars in the *Summertime with the CEDS*:
 - **July 29** – Regional Resilience for Transportation and Economic Development (part of the virtual National Regional Transportation Conference)
 - **August 6** – Economic Development: Considerations for Change
 - **August 11** – So You Want to Hire a Disaster Recovery Coordinator? Lessons Learned and Best Practices for EDDs
- Please contact Brett Schwartz at bschwartz@nado.org if you have any general questions about NADO RF or the *Stronger CEDS, Stronger Regions* program



Today's Trainer



Tonya Graham, Executive Director, Geos Institute
Ashland, Oregon



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Upcoming Webinars

Register at www.nado.org

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August 6 – Economic Development: Considerations for Change

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Integrating Climate Resilience into Your CEDS

TONYA GRAHAM, EXECUTIVE DIRECTOR
GEOS INSTITUTE

Geos Institute

*Mission: To keep human and natural communities whole
in the face of climate change.*



CLIMATE
WISE®



WORKING
WATERS

Preparing for Climate Change in the Rogue River Basin of Southwest Oregon



Prepared by:

The Resource Innovation Group
Geos Institute
USDA Forest Service, PNW Research Station

December 8, 2008

ClimateWise®
Helping communities prepare for a changing climate.

Missoula County Climate Action: Creating a Resilient and Sustainable Community



November 2011

ClimateWise®

Integrated Climate Change Adaptation Planning in San Luis Obispo County



Marni E. Koopman,¹ Kate Meis,² and Judy Corbett²

¹The GEOS Institute
(previously the National Center for Conservation Science and Policy)
²Local Government Commission
November, 2010

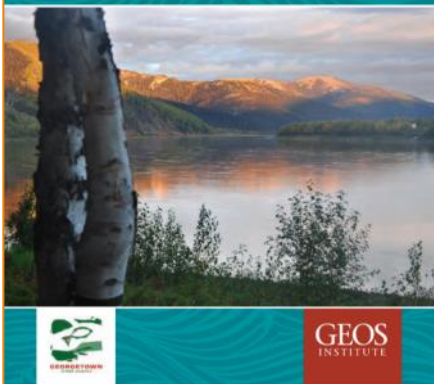
ClimateWise®
Helping communities prepare for a changing climate.

Integrated Strategies for a Vibrant and Sustainable Fresno County



March 2011

Native Village of Georgetown *Climate Change Vulnerability Assessment*



**GEOS
INSTITUTE**

Hot Enough Yet? The Future of Extreme Weather in Austin, Texas

A report for A Nurtured World and the City of Austin

April 2016

Prepared by the Geos Institute

A dynamic online summary of this report, with voiceovers,
and a pdf of this report are available at
<http://climatewise.org/projects/1162-central-texas>

**GEOS
INSTITUTE**

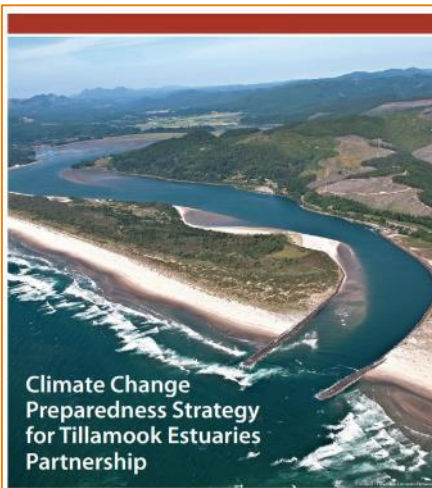
Future Climate, Hydrology, Vegetation, and Wildfire Projections for the Southern Sierra Nevada, California

A climate change synthesis in support of Integrated
Regional Water Management Planning

June 2014



**GEOS
INSTITUTE**



Climate Change Preparedness Strategy for Tillamook Estuaries Partnership

August 2018
Marni E. Koopman, Geos Institute

**GEOS
INSTITUTE**

This project was generously funded by
the US EPA Climate Ready Estuaries
and the BLM Tillamook Field Office

Prepared for the
Tillamook Estuaries Partnership

Tillamook Estuaries Partnership
A National Estuary Program

CLIMATE READY COMMUNITIES

Whole Community Resilience



Built Systems



Human Systems



Natural Systems



Economic Systems

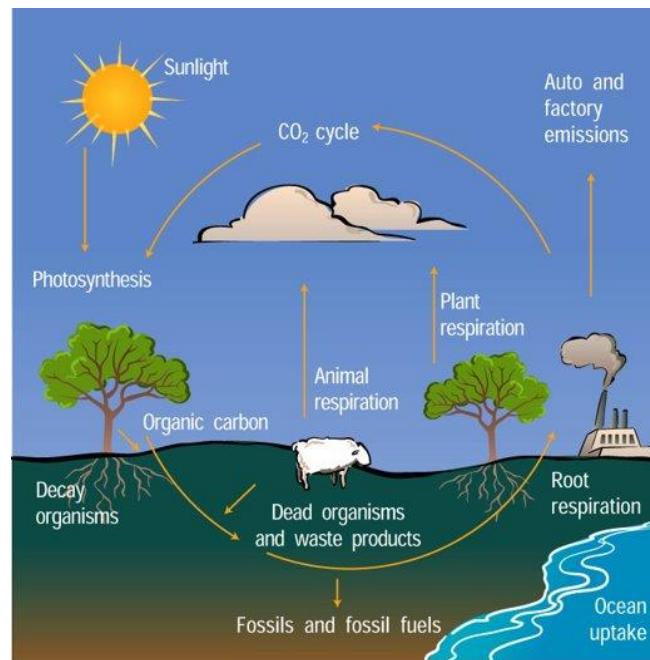


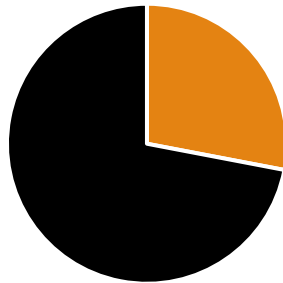
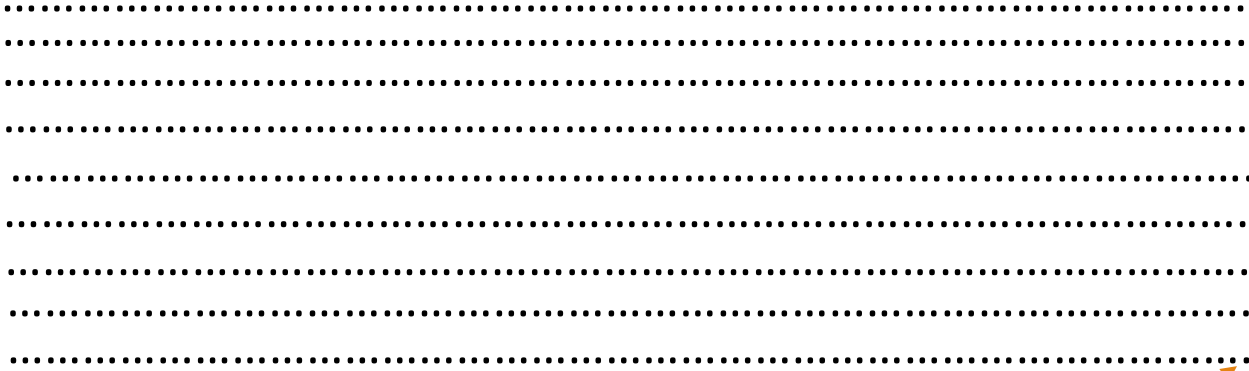
Cultural Systems

Weather and climate

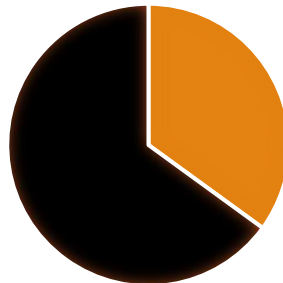


Greenhouse gases – why we love them

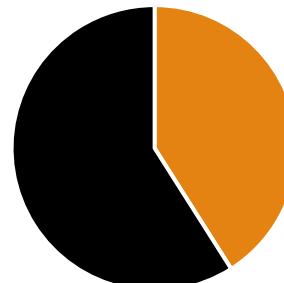




Historic – 280 ppm



Safe – 350 ppm



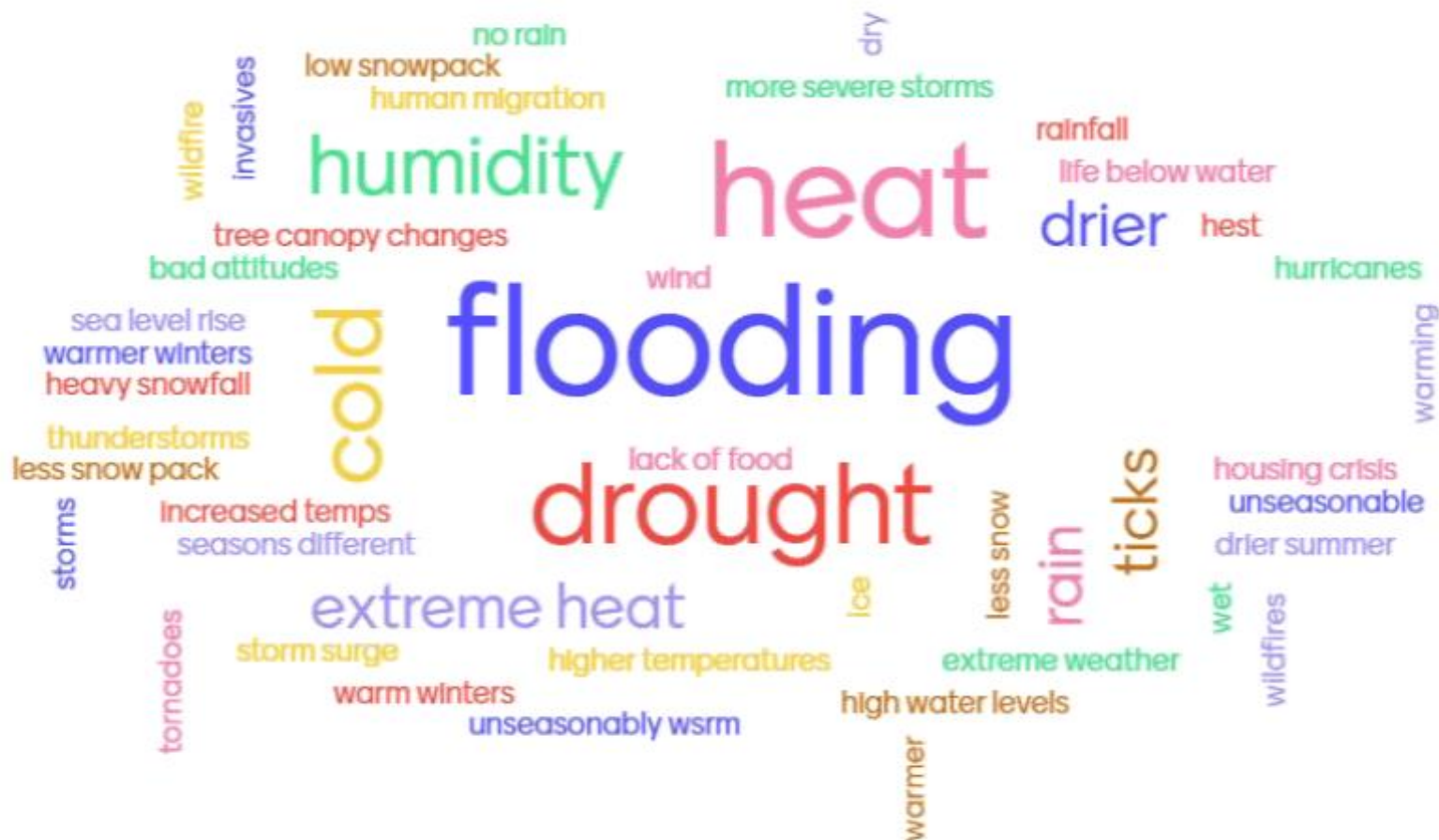
Current – 416 ppm

Black: Other Gases **Orange:** Carbon Dioxide

International Panel on Climate Change

Call on governments to reduce greenhouse gas emissions by 45% by 2030

What climate-related changes are you seeing in your community?



Shocks and Stressors

- Chronic long-term impacts – heat, drought, flooding
- Major disturbances – severe storms, 500-year floods, wildfire
- Both must be incorporated into CEDS processes



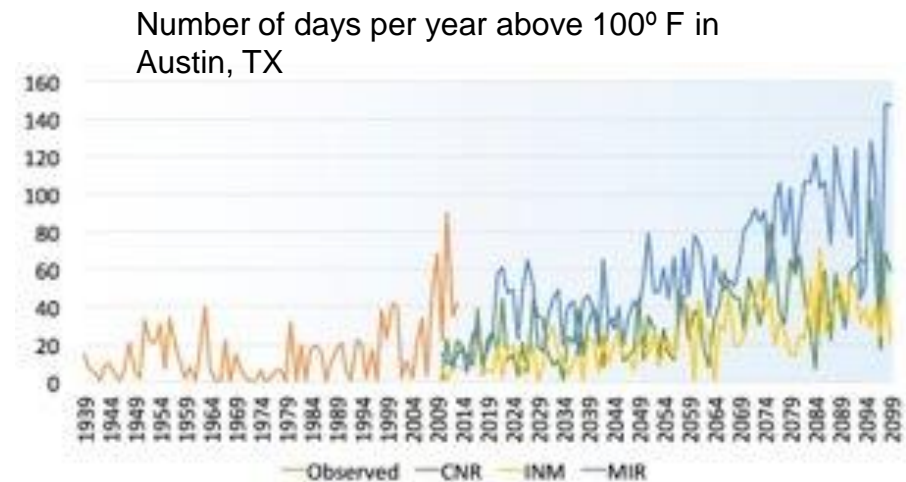
What is Resilience?

- Bouncing back – or bouncing forward?
- Resistance – staying out of trouble in the first place



How to Integrate Resilience

- Understand future climate conditions
 - Existing climate projections
 - State level resources
 - Local universities
 - We can help



How to Integrate Resilience

- Assess those changing conditions in relation to existing economic anchors in your community
 - Workshops
 - One-on-one conversations
 - Surveys
- Develop strategies to adapt



How to Integrate Resilience

- Develop new economic development initiatives with these future conditions in mind
 - Will this initiative work now and in the future?
 - Is there anything else that will change?
 - Should local renewable energy be a major element?
 - Consider resilience planning for businesses



Added Benefits

- Can help local businesses realize the importance of their own resilience planning
- School districts, local government, and other entities can build their climate resilience plans based on your future climate projections





CLIMATE READY
COMMUNITIES

Climate Ready Communities

- Step-by-step guide available for download at no cost
- Step 2 discusses climate change science and projections
- Workshop planning guidance



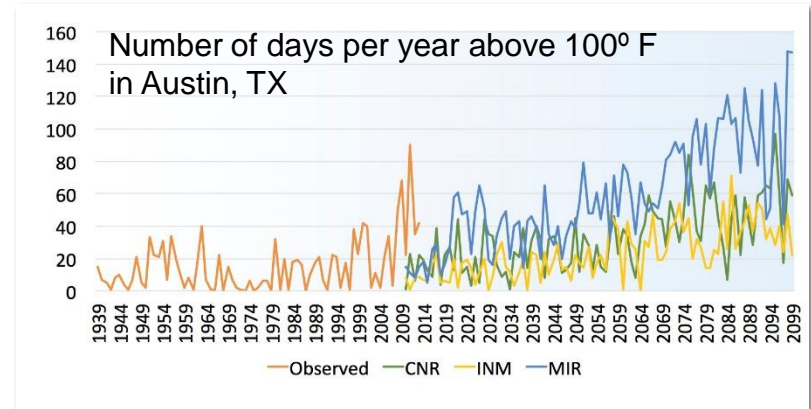
Climate Ready Communities

- Support Package
 - Tutorials and templates
 - One-on-one consulting hours
 - Regular webinars
 - Online forum
 - Subscriber portal



Climate Ready Communities

- Additional Services
 - Local climate projections
 - Workshop facilitation
 - Report writing
 - Webinars on resilience-related topics
 - Consulting hours



Climate Ready Communities

Questions?



Contact Us

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WWW.CLIMATEREADYCOMMUNITIES.ORG

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