

Today's Event Partners











Welcome
Bonita Robertson-Hardy
Associate Director
Aspen Institute Community Strategies Group

Why host/organize Rural Opportunity and Development (ROAD) Sessions?

- Highlight and unpack rural development ideas and strategies that are critical in response to COVID-19 and to long-term rebuilding and recovery.
- Feature stories of on-the-ground practitioners who have experience, wisdom and savvy to share.
- Reflect and emphasize the full diversity of rural America lifting voices and lived experiences from a wide range of rural communities and economies.
- Spotlight rural America's assets and challenges
- Infuse practitioner stories and lessons into rural narratives, policymaking and practice across the country
- Strengthen the networking of organizations serving rural communities and regions.

Our Next ROAD Session: Infrastructure on August 16th

- Join us on August 16th at 3:00 PM ET
- Panel Discussion and Breakout Rooms on the topic of rural infrastructure and economic opportunity
- Register via the link in the **chat box** or https://aspeninst.zoom.us/webinar/register/WN_oRZyZC_ISYaxiUIyDmi9Mw

Pathfinders

Exchange Format

- Panel Discussion: 1:30 2:45 p.m. ET Our speakers share their experience adapting and innovating rural strategies to combat climate change.
- Breakout Rooms: 2:45 3:15 p.m. ET Optional

Join a breakout to meet others, ask questions, seek advice and share your thinking and experience. Format: Open questions and answers, ideas and advice sharing. Each breakout will include one or more of today's speakers plus a facilitator.

Pathfinders

Exchange Format

- Use the Chat Box to share insights or to echo/underline a panelist's point. Please share your thoughts with civility and compassion.
- Use the Q & A Box to ask your question of the speakers.

Participant questions will be addressed during the event, in the last 15 minutes of the panel discussion, and during the 30-minute follow-on breakout session.



Social Media





■ If you'd like to share insights from this event on Twitter or LinkedIn, you can find us at:

@AspenCSG, @RuralLISC, @RuralHome @RCAPinc, @federalreserve

#ruralinnovation, #roadsession, #climatecrisis

And last before we start... A little Housekeeping

- Your mics are muted. If you have any tech issues, please use the Chat box. We have people standing by to address!
- At 2:45 ET, enter the breakout discussion by clicking on the link provided in the Chat Box and in the email sent to you today.
 - You have received an email with a special Zoom link for the breakout session already.
 - We will send those links again in the next hour to every registered participant's email.
 - If you have not received it please send a note to csg.program@aspeninstitute.org.
- Recordings of the first hour will be available on the Aspen CSG event webpage in the next few days. That video link will be sent to all registered.



Welcome Today's Moderator:

Chitra Kumar
Acting Associate Director for
Environmental Justice
US Environmental Protection Agency



Setting the Context on Rural Climate Action

Jeremy Richardson
Senior Energy Analyst
Union of Concerned Scientists



Impacts beyond temperatures



Little or no rain



Tornados and thunderstorms



Western wildfire activity



Extreme precipitation (rain and snow)



High-tide flooding and increased storm surge



Extreme heat



More Atlantic hurricanes



Parched soil



Extreme rainfall from hurricanes

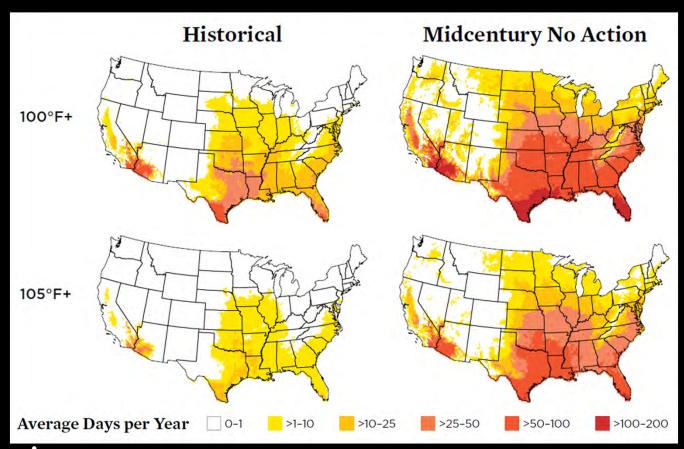
Weakest Evidence

Growing Evidence

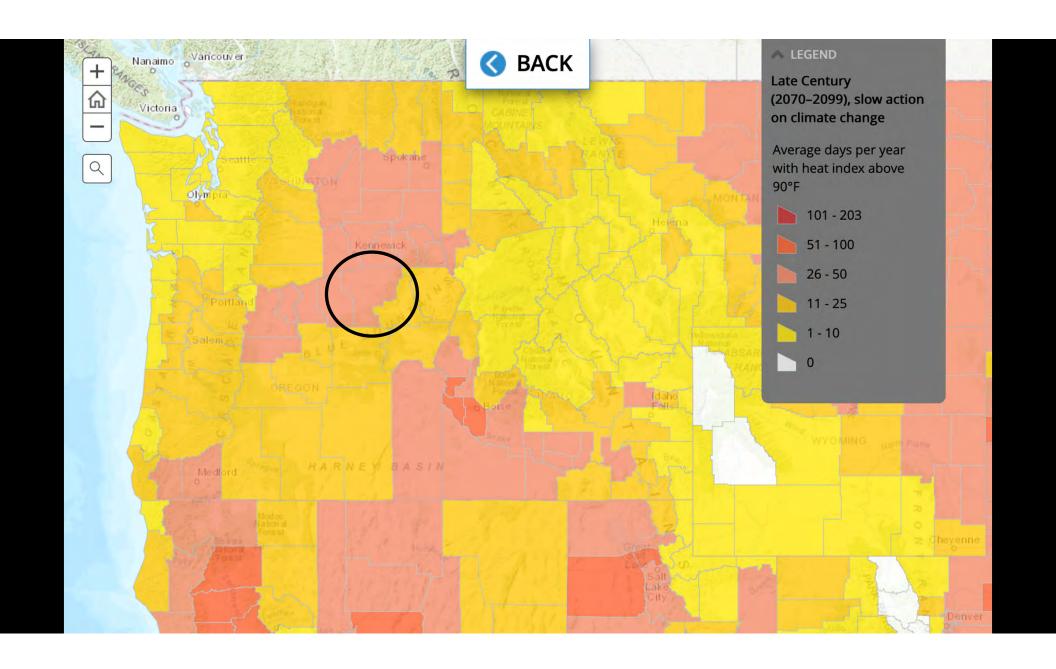
Strong Evidence

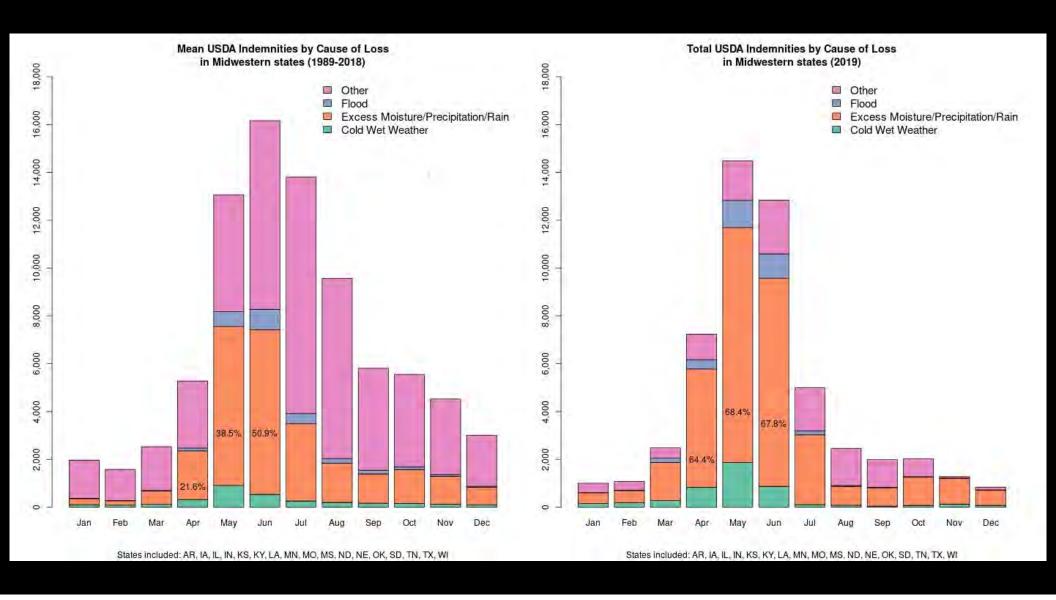
Strongest Evidence

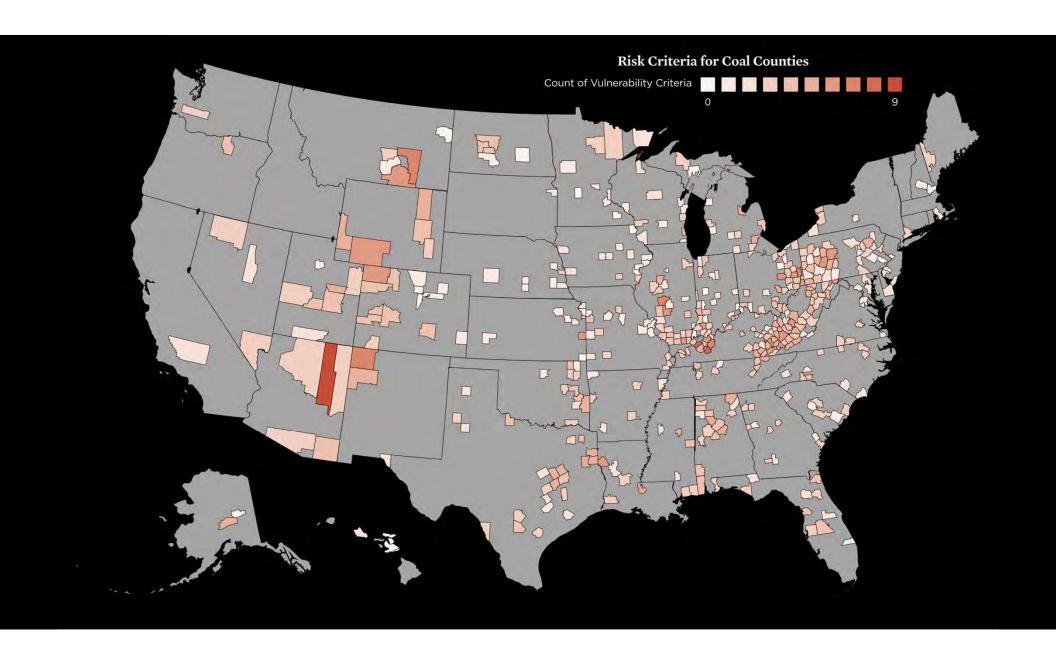
Midcentury (2036-2065): Steep increase in extreme heat



Concerned Scientists







Climate Action Must Include Assistance to Workers and Communities

Dealing with Immediate Crisis

- Require advance notice of closures
- Dislocated Coal Workers
 - Early retirement and wage replacement for five years, indexed to inflation
 - Continued health care coverage
 - Full retirement/pension contributions
 - Retraining opportunities
 - Job placement resources and assistance
 - Relocation allowances
- Communities
 - Temporary replacement of lost tax revenue *
 - Economic planning grants
 - Addressing indirect and induced jobs (?)

Longer-Term Needs

- Mandated decommissioning and reclamation, employing dislocated workers as much as possible (win-win)
 - Strong labor standards, local hire if possible
 - Power plant decommissioning
 - Cleanup of coal ash ponds and groundwater contamination *
 - Mine reclamation (surface and underground)
- Prioritize federal infrastructure funding for local projects in affected communities
- Tax incentives to companies that hire or retain dislocated workers, or companies that locate in coal communities

Estimated Cost of Supporting Dislocated Coal Workers

Policy Support	Low Case Assumed Coal Phaseout=2040 25-Year Program (\$ billions)	High Case Assumed Coal Phaseout=2030 15-Year Program (\$ billions)
Five-year comprehensive wage replacement for dislocated coal workers	\$31.4	\$59.1
Educational benefits	\$0.3	\$7.3
Educational benefits for family members	\$0.6	\$14.6
Job placement services and training programs	\$0.2	\$0.4
Relocation assistance	\$0.5	\$0.8
Educational benefits for previously dislocated coal workers (2015–2019)	\$0.1	\$0.8
Total over life of program	\$33.2	\$82.9

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Summary of Key Assumptions

Assumptions	Low Case	High Case
Assumed coal phaseout	2040	2030
Lifetime of program	25 years	15 years
Estimate for health and retirement benefits	30% salary adder	60% salary adder
Education	25% uptake by eligible workers; two-year community college	75% uptake by eligible workers; four-year university
Free post-secondary education for children	50% uptake by eligible children; one child per dislocated worker	75% uptake by eligible children; two children per dislocated worker
Per-worker cost in the Workforce Innovation and Opportunity Act's Adult and Dislocated Worker Programs	\$3,424	\$4,496
Relocation allowance	\$10,000 per worker	\$10,000 per worker

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Clean Energy Economies in North Carolina

Ajulo OthowFounder and CEO
EnerWealth Solutions



Clean Energy Economies in North Carolina

Curtis Wynn CEO Roanoke Electric Cooperative



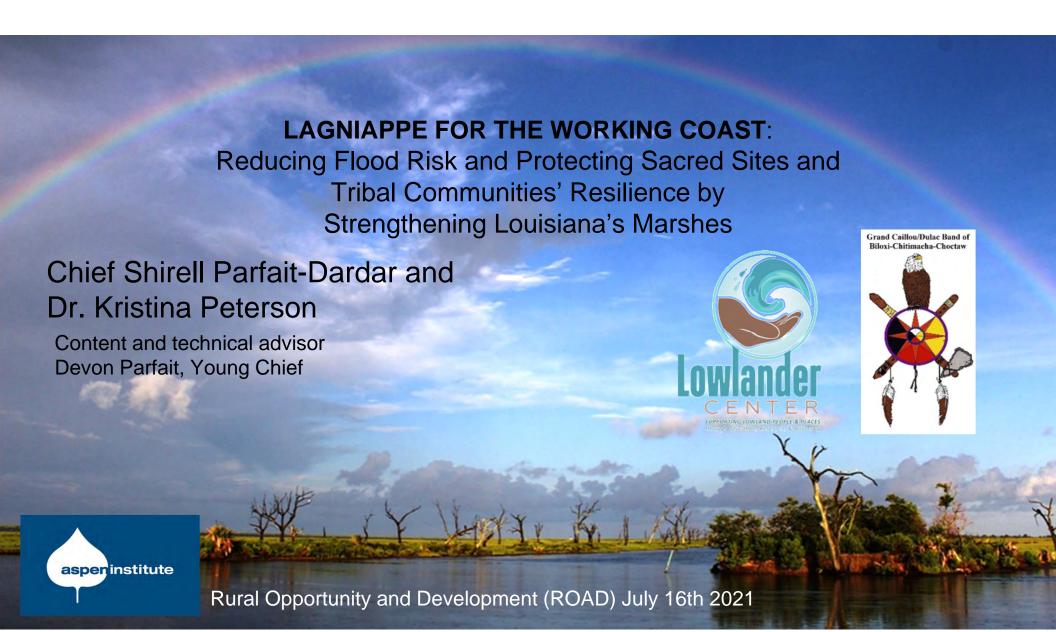
Climate Action and Environmental Justice in Southeast Louisiana

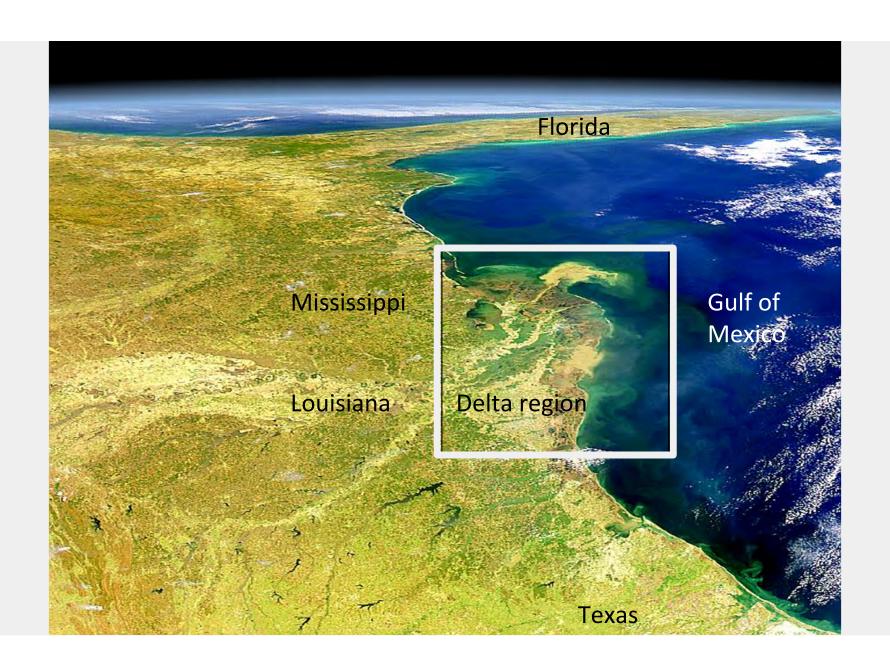
Shirell Parfait-Dardar
Traditional Tribal Chief
Grand Caillou/Dulac Band of BiloxiChitimacha-Choctaw

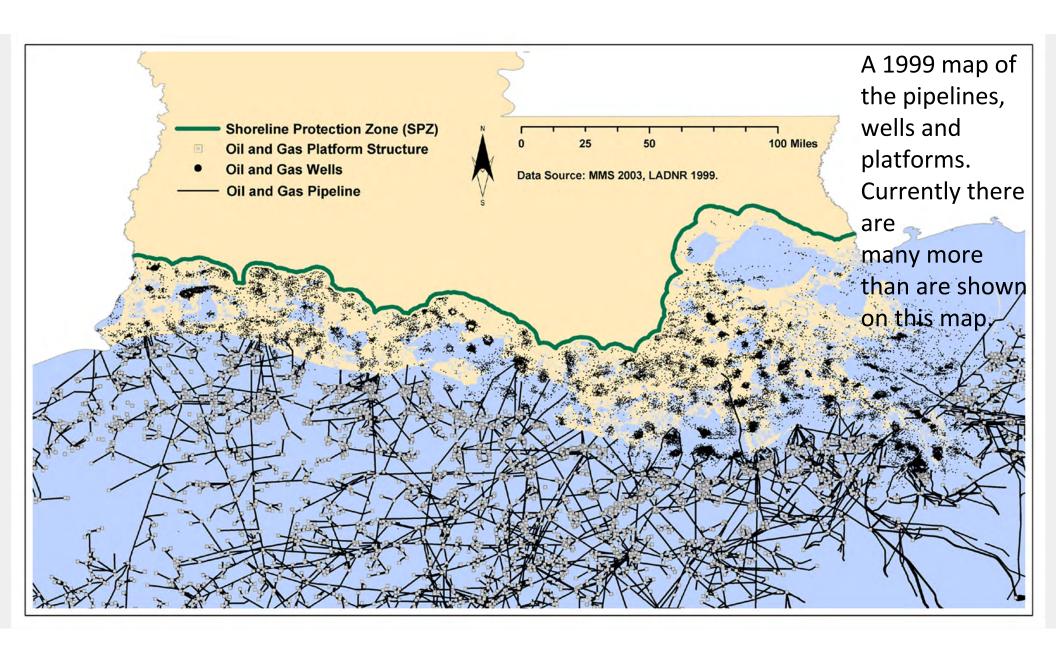


Climate Action and Environmental Justice in Southeast Louisiana

Kristina Peterson Co-Founder Lowlander Center











Category 5 Storm Surge Inundation (SLOSH Maximum of

With this education and awareness tool, anyone living in hurricane-prone coastal areas along the U.S. East and Gulf Coasts can now evaluate their own unique risk to storm surge. This map makes it clear that storm surge is not just a beachfront problem, with the risk of storm surge extending several miles from the immediate coastline in some areas. "You

LEGEND

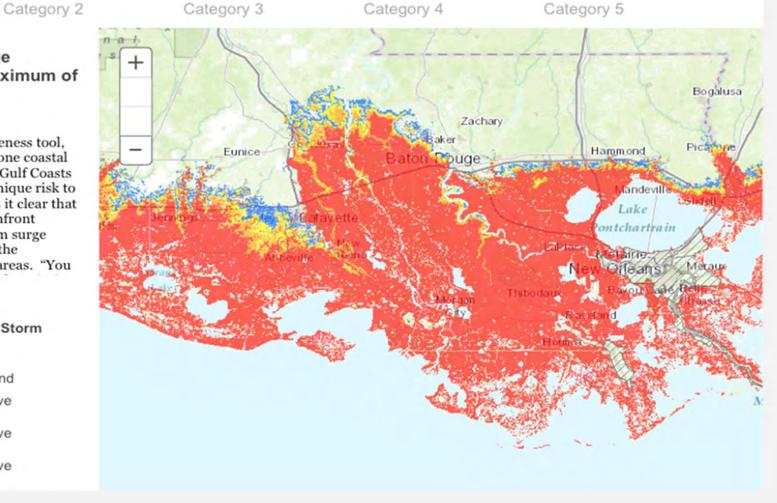
Category 5 (SLOSH MOMs) Storm Surge Inundation

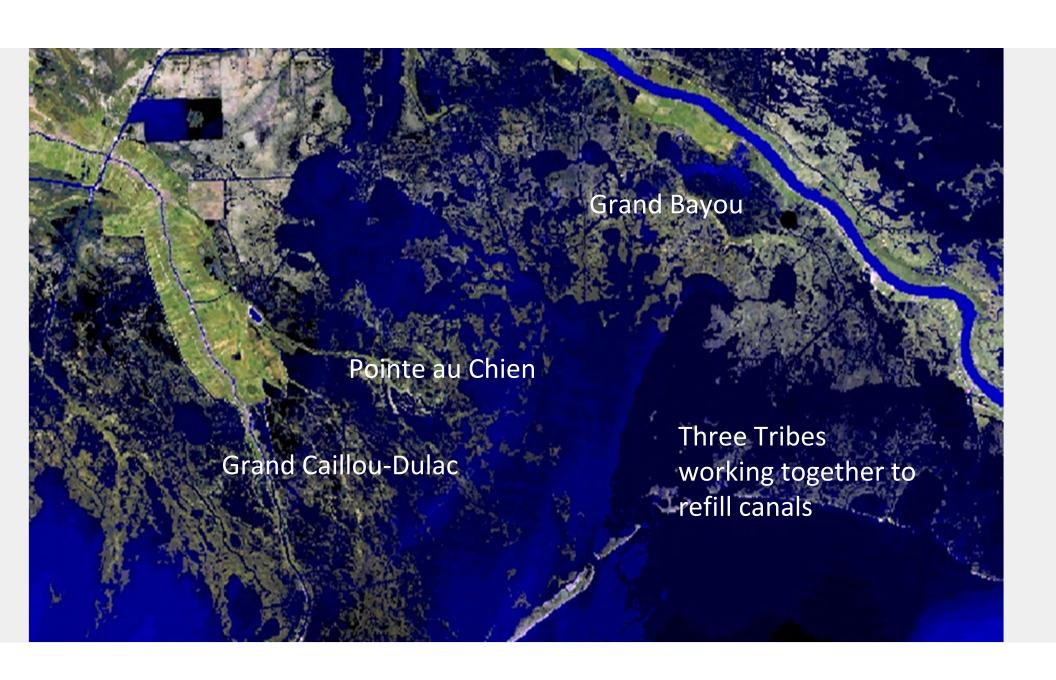
Inundation Depth

Category 1

Maximums)

- Up to 3 feet above ground
- Greater than 3 feet above ground
- Greater than 6 feet above ground
- Greater than 9 feet above ground

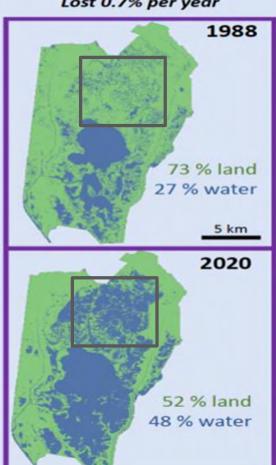




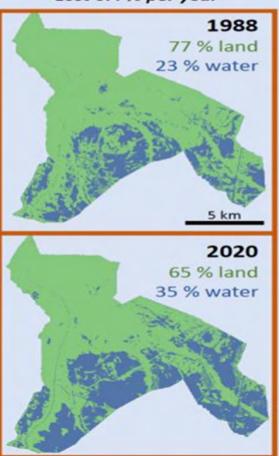
Land loss rates for indigenous tribal lands in southern Louisiana are higher than overall regional rates Devon N. Parfait 1,2 and Rónadh Cox 1

¹ Geosciences Department, Williams College, MA 01267
²Grand Caillou/Dulac Band of Biloxi-Chitimacha-Choctaw, Chauvin, LA 70344

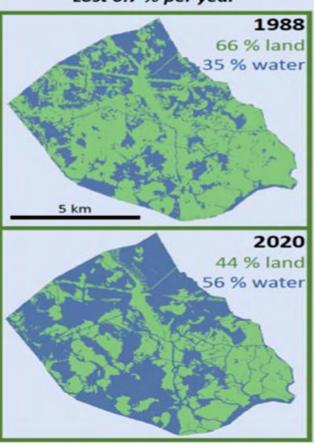
1. Grand Caillou/Dulac Lost 0.7% per year



2. Point Au Chien Lost 0.4 % per year



3. Isle de Jean Charles Lost 0.7 % per year



LAGNIAPPE FOR THE WORKING COAST: Reducing Flood Risk and Protecting Sacred Sites and Tribal Communities' Resilience by Strengthening Louisiana's Marshes



National Estuary Program and National Fisheries and Wildlife Foundation

PROTECTING



PEOPLE



LIVELIHOODS

SACRED SITES



RESTORING LAND

and....
REDUCING FLOOD RISK

Video Presentation





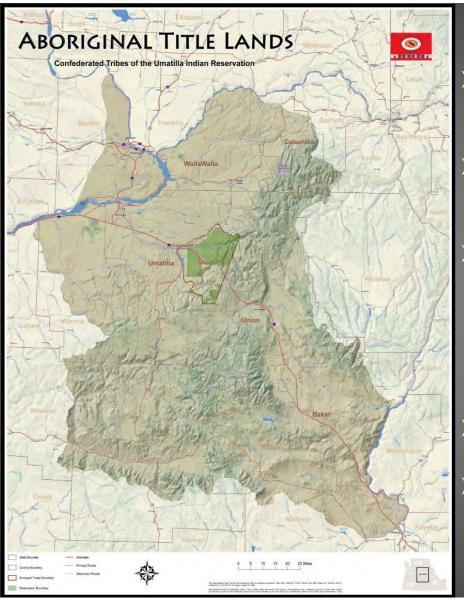
Climate Adaptation Planning on the Confederated Tribes of the Umatilla Indian Reservation

Wenix Red Elk Public Outreach and Education Specialist CTUIR Department of Natural Resources



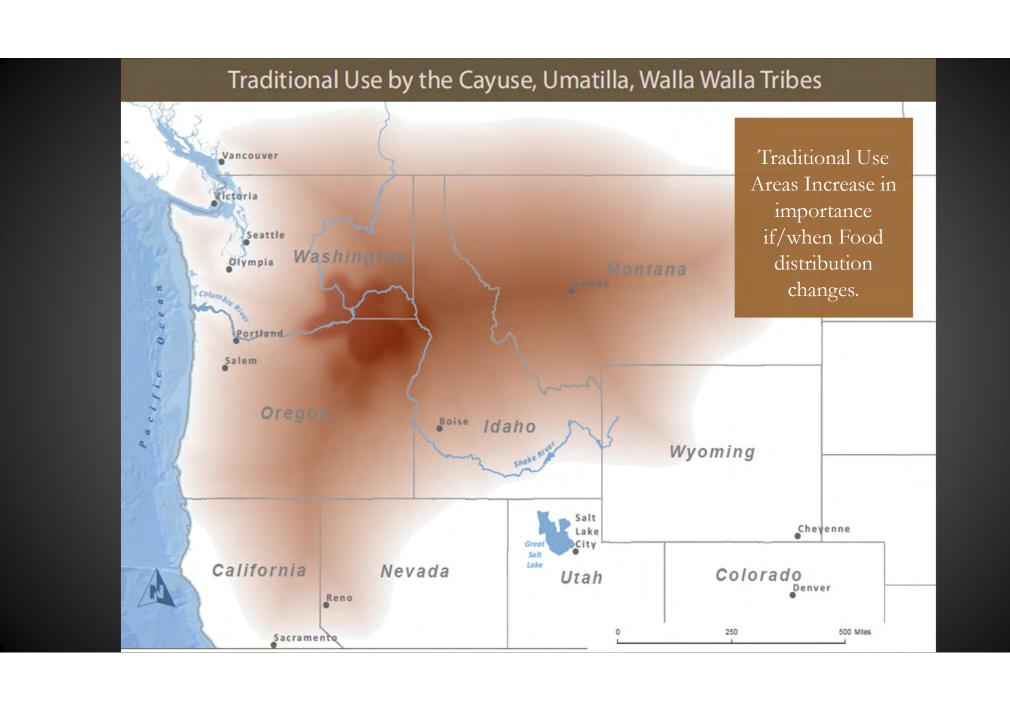
Climate Adaptation Planning on the Confederated Tribes of the Umatilla Indian Reservation

Colleen SandersClimate Adaptation Planner
CTUIR First Foods Policy Program



CTUIR Treaty of June 9, 1855

- Confederation of three Tribes: Cayuse, Umatilla & Walla Walla
- ➤ 6.4 million acres ceded to the US in NE Oregon & SE Washington
- Retained reserved treaty rights within ceded lands of the exclusive right of taking fish, hunting, gathering roots and berries and pasturing their stock on unclaimed lands.
- Sovereign Nation Created Umatilla Indian Reservation
- ➤ 1949 Constitution & By-Laws adopted



Department of Natural Resources

Mission Statement



To protect, restore, and enhance the first foods - water, salmon, deer, cous, and huckleberry - for the perpetual cultural, economic, and sovereign benefit of the CTUIR. We will accomplish this utilizing traditional ecological and cultural knowledge and science to inform:

- 1) population and habitat management goals and actions; and
- 2) natural resource policies and regulatory mechanisms.



Tribal Community Cultural Continuity, Preservation Outreach & Education Project







DNR's First Foods Excursions Outreach and Education Goals:

- ☐ First Foods Mission management and restoration;
- ☐ identify, locate and document;
- □ provide gathering and legal access to sites;
- ☐ teach participants how to identify, harvest, and procure First foods

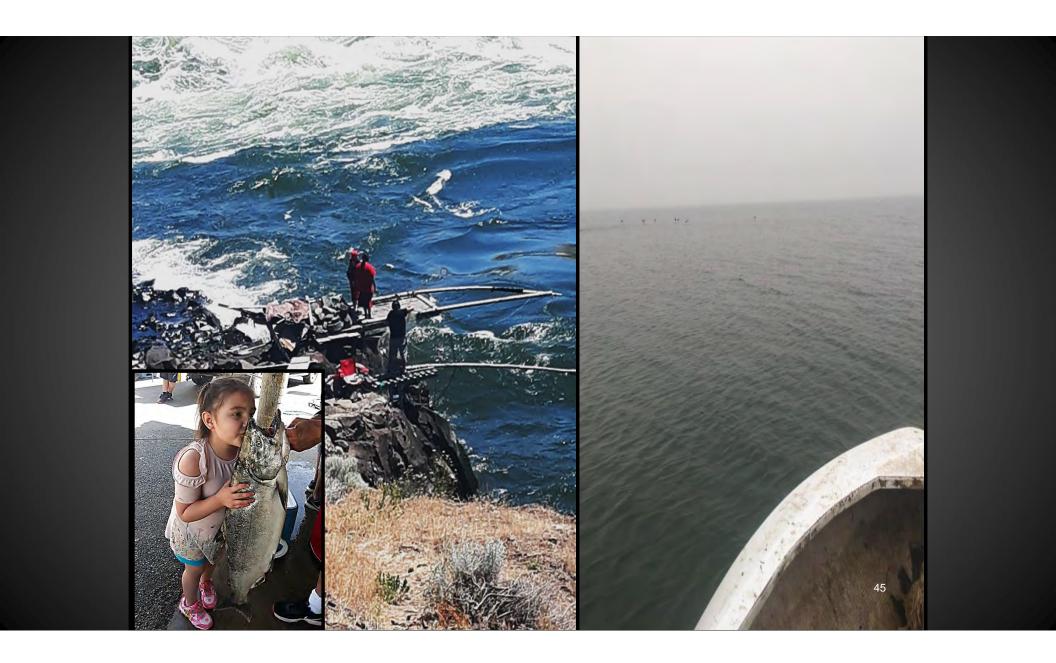
First Foods Associated Activity



Cedar Root Pull

Cleaning Cedar on the Sandy River, OR





Passing Traditions to Our Youth





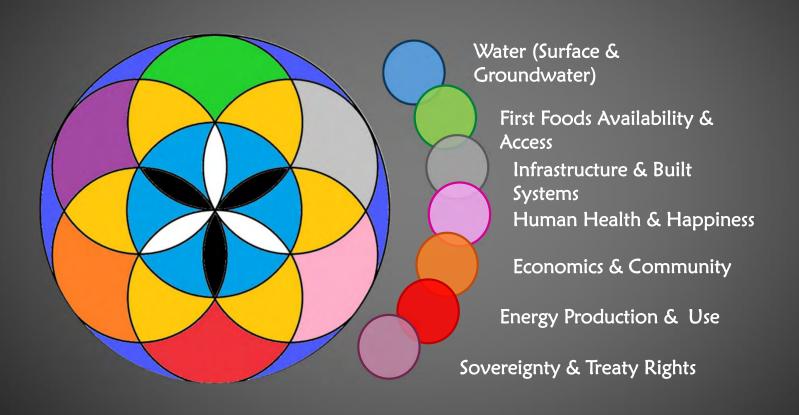
First Foods Resiliency







CTUIR Climate Adaptation Wheel



Q&A Session

Moderated by Chitra Kumar

Join us for the breakout room discussion

- To enter the breakout session: Simply use the Zoom breakout link provided in the Chat Box.
 - We sent every registered email that link again during this hour.
 - If you did not receive it please send a note to csg.program@aspeninstitute.org
 - Each room will include one of our speakers and a facilitator it may take a few minutes to get them sorted into the right room. Chat until they get there!
 - Open discussion!

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See you in the Breakout Room!