

Overview of NASA Earth to Sky Workshop

Host: South Central Climate Adaptation Science Center

APRIL TAYLOR

TRIBAL LIAISON

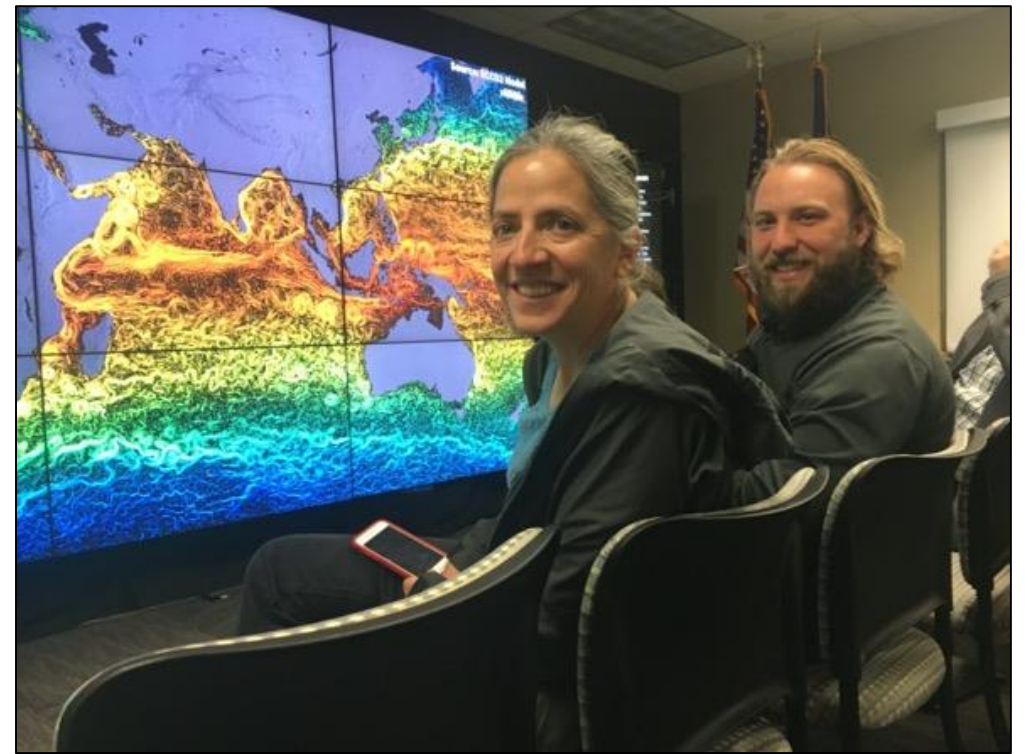


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CLIMATE ADAPTATION SCIENCE CENTER



An Interagency Partnership

Climate interpretation & informal education professional development



Earth to Sky Regional Teams



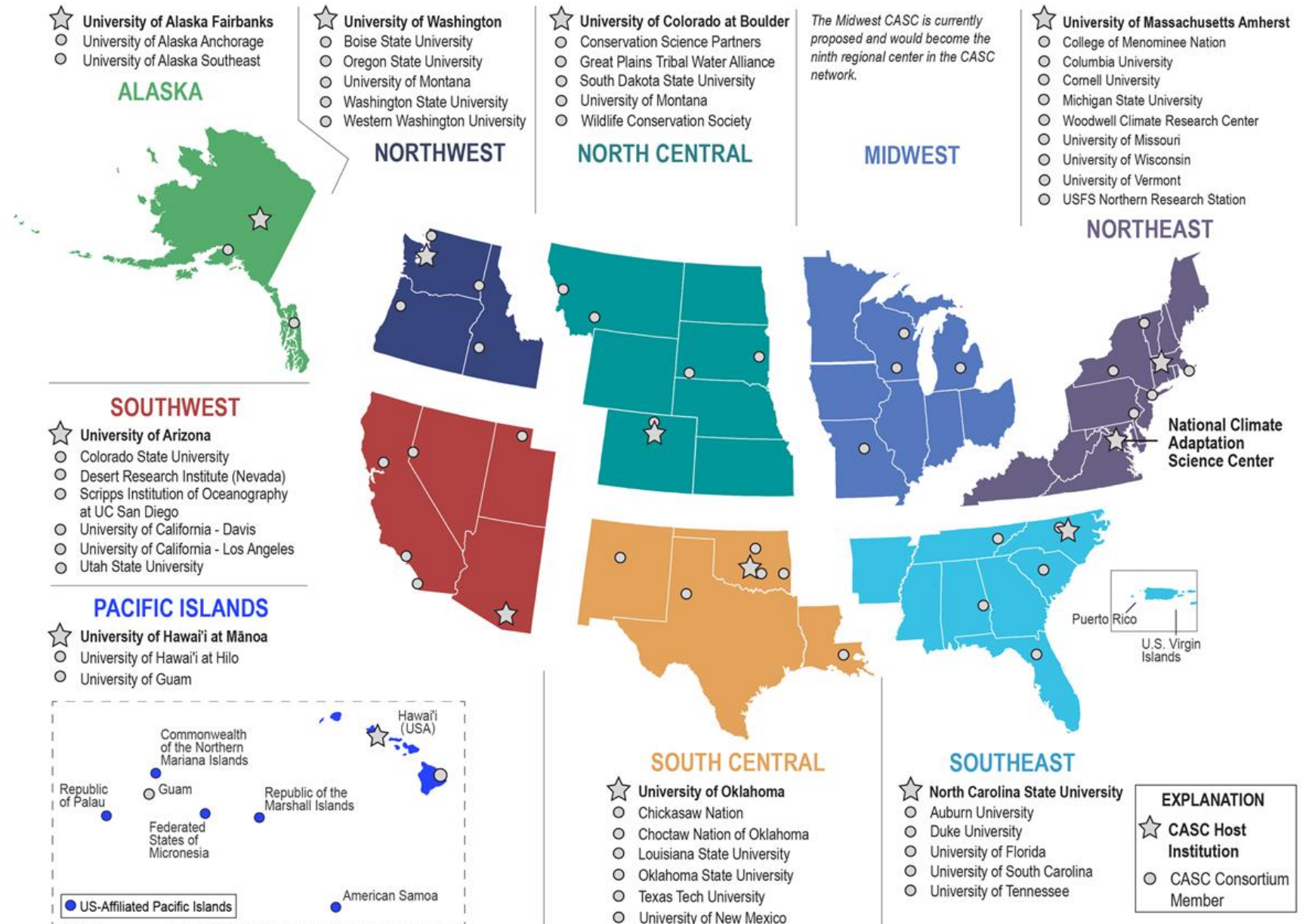
Climate Adaptation Science Centers

Mike Langston, PH.D.
Acting Director
South Central
CASC



Climate Adaptation Science Center (CASC) Regions

The CASCs collaborate across boundaries to address shared ecosystems, watersheds, and landscapes



Overview of Funding

- BIA TRCP- SC CASC grant-

- Travel support for 7 tribal attendees
- Travel support for 1 NASA space grant intern
- Facility rental for 3 days
- Supplies (printing, ink, folders, etc.)
- Coffee, drinks, light breakfasts, and afternoon snacks

BIA TRCP- BIA Pathways-

- Time and travel for 3 interns

Chickasaw Nation- Summer intern program

- Time and travel for 2 interns

Chickasaw Nation- SC CASC grant

- My time and travel

Chickasaw Nation- Dept of Commerce

- 4 staff time and travel

- AV and photography

Chickasaw Nation- other depts.

- 8 attendees

SC CASC

- 2 speakers travel



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Overview of Logistics and AV/ Photography Team

- Chickasaw Nation Retreat and conference center in Sulphur, OK (~ 1.5 hr drive)
- 1 amphitheater room with 12 round tables, podium, projector screen, 3 tables for coffee and snacks (included AV room)
- 2 meeting rooms upstairs for share a thon on day 3



Overview of Outreach/ Recruitment

- Save the Date Oct 8, 2021
- Registration open on May 17, 2022
- SC CASC- social media, & tribal lists
- NASA ETS website and listserv
- OK NASA Space grant
- Tribal listservs
- Travel support deadline of July 8th

Earth to Sky Workshop
South Central Region

Join us for three days of training with native informal educators from across the South Central Region who recognize the importance of teaching climate change. This workshop will be packed with exciting topics and fun activities for you to bring back to your community, including:

- NASA Arctic & Earth Signs Training
- NASA Living Landscape Project
- Shar-A-Thon of Youth Activities
- Field Trip to Chickasaw National Recreation Area

Participants are encouraged to register with teams of relevant collaboration. (Ex. Tribal Environment and Education Staff) You will work with these teams to develop plans to implement these trainings in your tribe!

When & Where
July 20-22, 2022
Chickasaw Retreat and Conference Center
4205 Goddard Youth Camp Road
Sulphur, OK 73086

Travel Support is available!
[Click Here to Register](#)

Earth to Sky (ETS) is a partnership between NASA, NPS, and USFWS that enables and encourages informal educators to access and use relevant NASA science, data, and educational & outreach products in their work. The partnership's focus is on climate change science and communication.



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Overview of Agenda

Day 1-Icebreakers, Intro to climate change, projections, NASA resources, using satellite data

Day 2 –NASA MAINSE/ESTEEM, MUREP, and Living Landscapes, Film, Artic and Earth Signs, Field Trip

Day 3- Globe observer, Share a Thon, Interns present, teams share out, certificates and group photo

****Note:** We included about 6 hrs for group work time.



Speaker Photos!!



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Overview of NASA related support

- Outreach via OK NASA Space grant & Daniella Scalice group
- Genevieve and Hazel- outreach, website, travel, slides for intro to NASA ETS, as a speaker, share a thon table, Brad- evaluation, & lots of outreach materials and Swag!
- Share a thon activities- ETS; GLOBE-mosquito, & GPM
- 1 intern- OK Space grant
- Speakers-
 - Renee McPherson- OU PI OK Space grant
 - Adrienne Wooten- contractor for JPL
 - Bob Rabin- satellite meteorologist
 - Bonnie Murray- MAINSE/ ESTEEM, MUREP & Living Landscape
 - Elena, Katie, Malinda- Artic and Earth Signs
 - Caio Franca- OK space grant



Overview of Coaches

- 1) We had coaches for speakers.
(all were virtual and many did not attend.)
 - Louisiana Sea grant coached Bob Rabin (good feedback)
 - CIRES coached Adrienne Wooten (good feedback) (Melanie Thompson then decided to attend in person last minute)
- 2) We had coaches for the teams in person.
 - 1) Amelia and Taylor- SC CASC
 - 2) Genevieve and Hazel- NASA ETS
 - 3) Abby Randall with EcoRise
 - 4) We did not assign a coach to the OSU team. April did sit with some on day 1.



Overview of Action Plans Materials

Day 1

- Norms of Collaboration
- Action Plan Ideas: Audience & Purpose

Day 2

- Group Lunch Collaboration
- Science Conversations
- Action Plan Ideas: Communication & Hope
- Science Resources

Day 3

- Education Reflections
- Finalize Action Plans: Collaborators, Timeline, Funding
- Action Plan Report-Out: Gallery Walk



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Overview of Evaluation Process

- We met with Brad before and sent him the agenda.
- He sent us the links and QR codes.
- Interns brought up on slide at end of each day.
- Brad sent us results.



Overview of NPS Field Trip

- We met at Artesian Well.
- Walked over to a bridge then to a spring.
- Drove to nature center.
- Walked to a spring and back.
- (IT RAINED on us!!!)



Speaker Photos!!



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Overview of Share a Thon Activities

We had 9 activities!

- Ocean acidification
- EcoRise
- NASA ETS
- GLOBE Mosquitos
- GPM
- Kidwind
- Pollinator Race
- Rain Gardens
- Cool Communities



Share a Thon Photos!!



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HOST INTERNS

- Our Current 6 interns
- 3 BIA Pathways- Taylor Broadbent, Clarissa Dixon, Kiona Tinney
- 2 CN Summer interns- Lex Smith and Buster Beshirs
- 1 NASA Spacegrant- Amelia Cook



Overview of Interns

- Taylor- outreach, all communication with attendees, printing materials
- Clarissa and Kiona- ice breakers
- Lex and Clarissa- evaluations
- Buster- field trip logistics
- Amelia- action plans, coaches
- Kiona- coordinate share a thon
- All helped with packing/ unpacking and coffee and snacks and were moderators and share a thon activities.

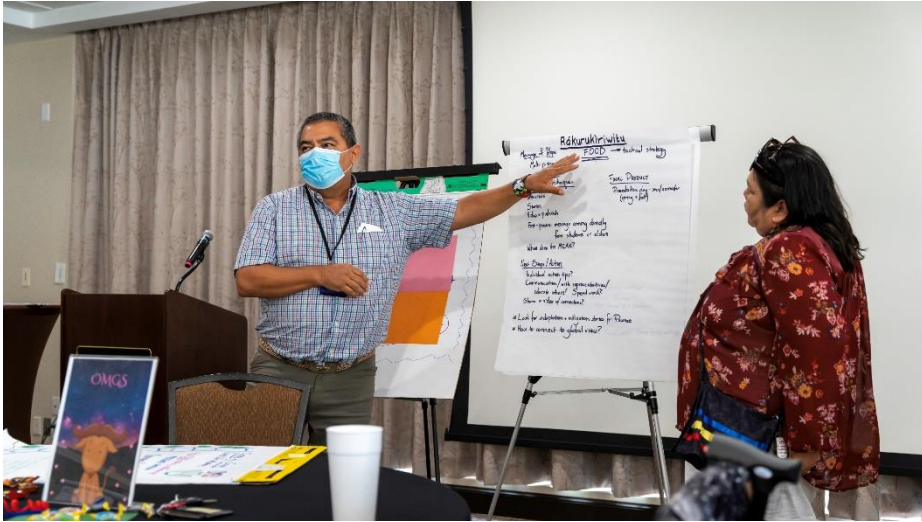


Overview of Teams Outcomes

- Pawnee Nation College- include in course curriculum.
- Otoe-Missouria Tribe of Indians- include in black willow restoration outreach
- Chickasaws- aquifer outreach at museum
- Choctaws include in wildlife camp
- OSU include in indigenous curriculum



Team Presentations Photos!!



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Overview of Feedback/ Evaluation Results

- Share Course Evaluation Summary Document
- Participant quote:

My team came together to come up with a great outreach plan for our community youth. With COVID and no interaction with community, we needed this training to regroup.





Overview of Reporting

- 42 total people in person (attendees, planning team, speakers, & share a thon staff)
- 19 attendees/ 6 teams from 1 TCU and 3 tribes and 399 contact hours
- 11 planning team
- 7 speakers in person/ 4 virtual
- 15 people for share a thon activities
- 6-7 coaches for teams
- 2 coaches for speakers virtual
- 3 contacts with NPS field trip
- 1 facility contact (+ staff for set up/ take down and behind the scenes)
- 1 SC CASC staff for purchasing/ payments



Overview of Website/ Portal

- We promoted to register before and during event.
- We uploaded photos and presentation files.



Successes

- We had a great facility!
- We had a great team with lots of interns!
- We had a AV/Photography team!



Challenges

- Covid 19- delays, low numbers, speakers that backed out, wearing masks, facility contact had the days before, etc.
- Lack of access to a large refrigerator.
- A few attendees as individuals and joined to a team.
- IT RAINED during field trip!
- One share a thon activity did not show up and one was late.
- One speaker did not show up- Covid related.



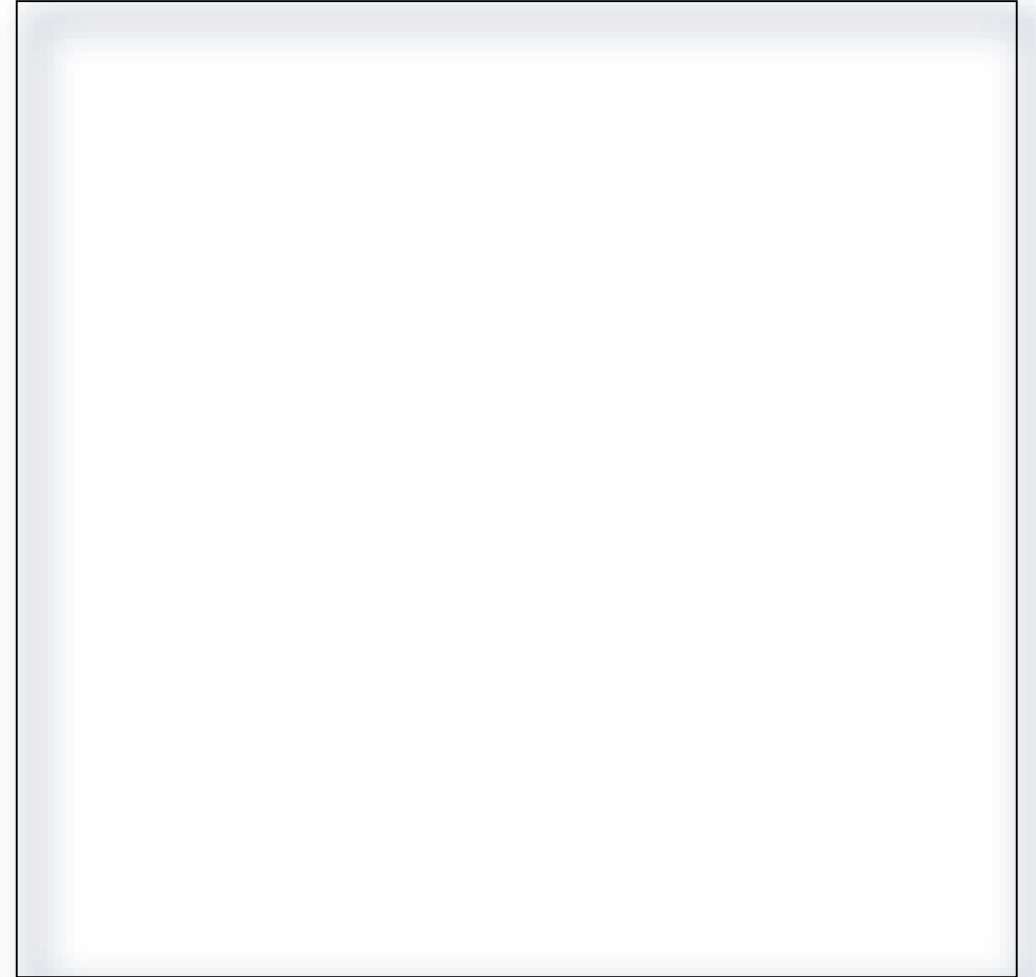
Recommendations

- Networking and outreach
 - Attendees
 - Speakers
 - NASA contacts
- Have an AV/IT staff!
- Communication with your team!
- Revise the action plans and materials. More focus on what they will do in their communities and share outs. Time for the groups to collaborate or get feedback from each other.



NEXT STEPS?

- Maybe invite Katherine Hayhoe to present a webinar?
- Maybe host one in Santa Fe, NM?
- Continue to partner with OK NASA Space grant



QUESTIONS?

April Taylor (April.Taylor@Chickasaw.net)



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