

Kaibab Fire & Climate Adaptation Workshop

February 11 – 13, 2020

Elks Lodge, 2101 N San Francisco St, Flagstaff, AZ 86001, Flagstaff, Arizona

Through participation in the workshop, attendees will:

- Review regional and local effects of climate change on fire in forest ecosystems
- Explore resources and tools that can be used to integrate climate change into management
- Understand adaptation concepts and principles in the context of sustainable forest and fire management
- Identify challenges and opportunities for fire managers
- **Develop actionable steps to adapt forests to changing fire regimes**

Agenda

Day 1: Tuesday, February 11, 2020

12:30 **Registration**

1:00 **Welcome & Introductions**

1:30 **Flash Talk Presentations**

1. Southwest FireCLIME project background – Andi Thode & Martha Sample, Northern Arizona University
2. NIACS overview – Leslie Brandt & Courtney Peterson, Northern Institute of Applied Climate Science, USDA Forest Service
3. KPERP Overview & Presentation – Alex Spannuth, Kaibab National Forest & Kaibab NF Team

2:25 **Stretch Break**

2:35 **Climate FAQ Presentation** – Pete Fulé, Northern Arizona University

3:35 **Break**

3:50 **NIACS Adaptation Workshop Step 1: Define area of interest, program, goals and objectives, and timeframes**

- **Goals:** What are your desired outcomes? Broad, general statements, usually not quantifiable, that describe the desired outcomes.
- **Desired Future Conditions (DFCs):** A description of the land or resource conditions that are believed necessary to fully meet the *goals* and *objectives*
- **Objectives:** How do you plan to achieve these outcomes? A concise, time-specific statement of measurable planned results that correspond to pre-established *desired future conditions*.

5:00 **Adjourn for the Day**

Day 2: Wednesday, February 12, 2020

8:30 **Overview for the day/what to expect**

8:45 **Recap and highlights from the Pre-Workshop Webinar** – Andi Thode, Northern Arizona University

9:15 **NIACS Adaptation Workbook Step 2: Assess Climate Change Impacts on the KPERP**

How might KPERP be uniquely impacted by climate change?

10:15 **Break**

10:30 **Adaptive Capacity**

The impacts of climate change are only half of the equation when determining vulnerability. We will also need to explore how adaptive capacity can contribute to vulnerability.

11:00 Vulnerability Determination

Vulnerability is a function of the impacts and adaptive capacity of your system. Take a moment to review the overall impacts on and adaptive capacity of the KPERP. Then, determine the overall vulnerability of KPERP implementation unit in your group.

11:30 NIACS Adaptation Workbook Step 3: Challenges/Opportunities for Meeting Management Objectives

Identify challenges and opportunities relevant to the KPERP plan objectives.

Evaluate whether it is feasible to achieve current management objectives and where it might be worth re-evaluating objectives based on climate change projections.

12:00 Lunch (taco & salad bar)

1:15 Identifying Forest Adaptation Approaches and Tactics – Courtney Peterson, Research Associate II, Colorado State University, NIACS

1:30 Introduce the Fire Menu of Strategies & Approaches – Martha Sample & Andi Thode, Northern Arizona University/Southwest FireCLIME

1:45 NIACS Adaptation Workbook Step 4: Identifying Forest Adaptation Approaches and Tactics

Select potential adaptation actions from the menu of Adaptation Strategies and Approaches and evaluate potential adaptation tactics.

2:45 Break

3:00 Identifying Forest Adaptation Approaches and Tactics & Fire Menu Feedback – Large Group Discussion

4:00 NIACS Adaptation Workbook Step 5: Identifying Metrics for Monitoring and Evaluating Effectiveness

Identify metrics to use to evaluate the effectiveness of adaptation actions.

4:45 Next steps for tomorrow – Group Presentations!

5:00 Adjourn for the Day

Day 3: Thursday February 13, 2020

8:15 Arrive and Refreshments

8:30 Reflections from previous day

9:00 Telling Your Adaptation Story

Work in your groups to create posters summarizing your climate change impacts to your KPERP implementation unit, the identified adaptation strategies and approaches for action, and a monitoring plan. Be prepared to give a 3-minute presentation and answer questions.

10:00 Group Presentations on Climate Change Impacts and Adaptation Strategies

Short, 3-min presentations from each group followed by questions.

10:45 Moving Forward: How do we start?

Group discussion on how to start moving adaptation ideas forward and feedback on Fire Adaptation Menu.

11:30 Next Steps/Putting it All Together

Discuss opportunities for coordination, learning, or shared resources.

12:00 Evaluations & Wrap-up

12:30 **Adjourn**

Thank you for your participation!

This active, hands-on training is being organized by Southwest FireCLIME (NAU) and the Northern Institute of Applied Climate Science (NIACS) in partnership with the Kaibab National Forest.

