



# Learning to Live with the Heat: Adapting to a Changing Climate in the Sky Island Region

May 21-22, 2013

DoubleTreeHotelReidPark, 445 S. Alvernon Way, Tucson, Arizona

## Workshop Objectives:

- Review the latest science on regional climate change projections, impacts, and adaptation options
- Advance and strengthen collaboration on regional adaptation projects
- Create a venue to share learning, progress, and strategy
- Develop next steps for climate change adaptation for natural resources in the region
  - Create working groups and action plans for springs, fire, and connectivity management in the face of climate change

Tuesday	Tuesday May 21
7:30AM - 8:30AM	<b>Registration, Morning Refreshments and Poster Setup Grand Foyer</b>
8:30AM - 10:00AM	<b>OPENING PLENARY – Salon E</b>
	<p style="text-align: center;"><b>Welcome to the Workshop</b> Louise Misztal, SkyIslandAlliance&amp; Lara Hansen, EcoAdapt</p> <p style="text-align: center;"><b>Climate Conversation – Projections and Impacts</b> <i>We'll hear from local experts about regional climate projections and what impacts we can expect from these changes. Come with your questions ready.</i></p> <p style="text-align: center;">Regional Climate Projections – What Can We Expect – Jeremy Weiss, University of Arizona Assessment of Climate Change in the Southwest United States – Zack Guido, Climate Assessment for the Southwest</p> <p style="text-align: center;"><b>Stories From The Field</b> <i>Join EcoAdapt Radio for a rousing round of interviews with your colleagues and neighbors to chat about how regional adaptation efforts are unfolding. Audience participation will be encouraged.</i></p> <p style="text-align: center;">Scenario Planning for Las Cienegas National Conservation Area – Karen Simms, Arizona BLM, and ShelaMcFarlin, Cienega Watershed Partnership Springs Inventory, Assessment, and Restoration – Louise Misztal, SkyIslandAlliance RiverRestoration and Climate Change – Mark Briggs, World Wildlife Fund Native Grass Cropping - Creating Affordable and Accessible Seed Supply – David Hodges, Cuenca Los Ojos Incorporating Climate Change into National Forest Management – Stan Helin, CoronadoNational Forest</p>
10:00AM - 10:15AM	<b>NETWORKING AND POSTER VIEWING BREAK – Grand Foyer</b>
10:15AM - 11:15AM	<p style="text-align: center;"><b>Regional Science and Impacts</b></p> <p style="text-align: center;">Maintaining and Restoring Landscape Connectivity in a Changing Climate– Meade Krosby, Climate Impacts Group, University of Washington</p> <p style="text-align: center;">Understanding and Predicting the Impact of Climate Change on Hummingbirds – Susan Wethington, Hummingbird Monitoring Network</p> <p style="text-align: center;">Springs and Climate Change: A View from the Weeds– Larry Stevens, Springs Stewardship Institute</p> <p style="text-align: center;">Post-Fire Ecosystem Resilience in a Future Climate World – Don Falk, University of Arizona</p>
11:15AM -11:30AM	Overview of Working Group Process – Lara Hansen, EcoAdapt
11:30AM - 12:30 PM	<b>BUFFET LUNCH FOR ALL PARTICIPANTS - Salon D</b>

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12:30PM - 3:30 PM	CONCURRENT WORKING GROUP SESSION 1		
ROOM	Salon C	SalonAB	Salon GH
<b>TOPIC</b>	<p><b>Springs, Climate Change, and Landscape Resilience</b>  <i>What we are learning about springs in the SkyIsland Region and how can we adapt management and monitoring to respond</i></p> <p>This working group session will explore vulnerabilities of springs to climate change given existing conditions and springs contribution to landscape-level resilience, and will begin to outline management options for reducing vulnerabilities.</p>	<p><b>Landscape-Level Fire and Ecosystem Management</b>  <i>Landscape-level planning to restore ecosystem processes, ecosystem resilience and watershed health</i></p> <p>This working group session will focus on how we can advance landscape-level planning and implementation pre-fire: what is working, what is missing, how we can engage effectively across jurisdictions.</p>	<p><b>Understanding and Conserving Connectivity</b>  <i>Taking stock of connectivity conservation in the SkyIsland Region and identifying climate change impacts and vulnerabilities</i></p> <p>This working group session will focus on integrating climate change into landscape connectivity.</p>
<b>PRESENTATIONS</b>	<p>Context of Springs Ecosystems and Assessments and Climate Change – Larry Stevens, Springs Stewardship Institute</p> <p>Initial Results from Springs Inventories and Assessments in the Cienega Creek Hydrogeologic Area – Nicholas Deyo, SkyIslandAlliance</p> <p>Springs Inventory Database Overview – Jeri Ledbetter, Springs Stewardship Institute and Nicholas Deyo, Sky Island Alliance</p>	<p>FireScape -- Jennifer Ruyle, Coronado National Forest</p> <p>Pinaleño Ecosystem Restoration Project – Craig Wilcox, CoronadoNational Forest</p>	<p>Wildlife Corridors and Monitoring in the SkyIsland Region – Jessica Moreno, SkyIslandAlliance</p> <p>Learning from the Washington Wildlife Habitat Connectivity Working Group – Meade Krosby, Climate Impacts Group, University of Washington</p>
<b>3:30PM - 5:00PM</b>	<p><b>TOOLS CAFÉ – INFORM YOUR CLIMATE CHANGE ADAPTATION – Salon E</b></p> <p>Mojave and SonoranDesert Vulnerability Assessment and Adaptation Planning – Pat Comer, NatureServe  National Phenology Network– Carolyn Enquist, National Phenology Network  Arizona Environmental Water Needs Assessment – Kelly Mott Lacroix, WaterResourcesResearchCenter  River Restoration Guidebook – Mark Briggs, World Wildlife Fund  Regional Scenario Planning – Holly Hartmann, Climate Assessment for the Southwest  US Forest Service Climate Change Scorecard – Marc Stamer, Coronado National Forest  The Desert Landscape Conservation Cooperative – Genevieve Johnson</p>		
<b>5:30PM - 7:00 PM</b>	<b>FORMAL POSTER SESSION&amp; TOOLS TABLES – Grand Foyer</b>		



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Wednesday		Wednesday May 22		
7:30AM - 8:30AM		Registration, Morning Refreshments – Grand Foyer		
8:30AM - 10:00AM		PLENARY – Salon E		
		<p><b>Elephants in the Room – Monitoring to Inform Adaptation and Working Across an International Boundary</b>  <i>We will explore monitoring efforts and address integration of climate-smart monitoring into adaptation activities</i>            Overview of Climate-Smart Monitoring – Rachel Gregg, EcoAdapt            Changes in a Lizard Assemblage at an Ecotone in Southeastern Arizona – Anne Casey, Coronado National Forest            National Phenology Network Perspective – Carolyn Enquist, NPN</p> <p><i>We will highlight issues and questions that participants are grappling with working across an international boundary</i>            Detecting Climate Change Impacts on Birds in the Southwestern U.S. and Northern Mexico – Jennifer Duberstein, Sonoran Joint Venture            Conservation Across an International Border – Sergio Avila, Sky Island Alliance and Mark Briggs, World Wildlife Fund            The Role of the Desert Landscape Conservation Cooperative in Monitoring and Bi-National Conservation – Genevieve Johnson, DLCC</p> <p><i>The full group will discuss overlap between Springs, Fire, and Connectivity, noting similarities &amp; interacting issues.</i></p>		
10:00AM - 10:15AM		MORNING NETWORKING BREAK – Grand Foyer		
10:15AM - 12:00PM		CONCURRENT WORKING GROUP SESSION 2		
ROOM	Salon C	Salon AB	Salon GH	Salon F
TOPIC	<p><b>Springs, Climate Change, and Landscape Resilience</b>  <i>What we are learning about springs in the Sky Island Region and how can we adapt management and monitoring to respond</i></p> <p>This working group session will focus on developing adaptation strategies to address vulnerabilities and adaptation plans that include monitoring.</p>	<p><b>Landscape-level Fire and Ecosystem Management: Responding to Post-Fire Effects</b>  <i>Stand replacing fires may be the new norm – how can we respond post fire to protect species and hydrology? What restoration techniques are working and how do we know?</i></p> <p>This working group session will focus on post-fire effects, how we are responding post-fire, and how we can make this more effective, and will explore post-fire restoration strategies all including monitoring.</p>	<p><b>Understanding and Conserving Connectivity</b>  <i>Conserving connectivity in the Sky Island region – creating climate-smart linkages in a region with an international border</i></p> <p>This working group session will continue to flesh out connectivity vulnerabilities and adaptation options with the added twist of discussing challenges posed by the international border and inclusion of monitoring in strategies.</p>	<p><b>Special Session – Las Cienegas National Conservation Area Scenario Planning Montane Group</b></p>
PRESENTATIONS		<p>Geomorphic Responses of Burned Watersheds in Arizona: Floods, Debris Flows, and Long-Term Recovery – Ann Youberg, Arizona Geologic Survey</p>	<p>Connectivity Across an International Border – Sergio Avila, Sky Island Alliance</p>	

<b>12:00PM - 1:00PM</b>	<b>BUFFET LUNCH FOR ALL PARTICIPANTS – Salon D</b>			
<b>1:00PM - 3:15 PM</b>	<b>CONCURRENT WORKING GROUP SESSION 3</b>			
<b>ROOM</b>	<b>Salon C</b>	<b>Salon AB</b>	<b>Salon GH</b>	<b>Salon F</b>
<b>TOPIC</b>	<b>Adaptation Options for Springs</b>  This working group session will incorporate a discussion around monitoring and continue to flesh out implementable plans for adaptation.	<b>Landscape-level Fire and Ecosystem Management, and Responding to Post-Fire Effects</b>  This working group session will incorporate a discussion around monitoring and continue to flesh out implementable adaptation plans to address post-fire effects.	<b>Understanding and Conserving Connectivity</b>  This working group session will incorporate a discussion around monitoring and continue to flesh out implementable adaptation plans for conserving connectivity and a plan for implementation.	<b>Special Session – Las Cienegas National Conservation Area Scenario Planning Montane Group</b>
<b>3:15PM - 3:30 PM</b>	<b>NETWORKING BREAK – Grand Foyer</b>			
<b>3:30PM - 5:00PM</b>	<b>CLOSING PLENARY - Salon E</b> Panel with participants from each session – New insights and important next steps Group Discussion – How implementation will take place. Town Hall Sharing – Thoughts on lessons learned and next steps from participants– that means you! Lara Hansen and Louise Misztal – Closing Remarks			
<b>5:00 PM</b>	<b>ADJOURN</b> <b>THANK YOU ALL FOR COMING</b>			

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