

Climate Change: Seeing, Understanding, and Teaching Denali National Park and Preserve, Alaska

Instructors:

Dave Shirokauer & Steve Arthur National Park Service

Sarah Bartholow Arctic Research Consortium of the United States

Jamie Esler PolarTREC Alumni Teacher, Guest Instructor

Day One – Monday, 29 June

1:00pm	<p>Meet at MSLC for registration</p> <p><i>Lunch on your own</i></p> <p>Welcome</p>	<p>All participants</p> <p>MSLC Guide</p>
	<p>Plan of the Day & Introductions</p>	<p>Sarah Bartholow</p>
	<p>Denali and Climate Change Basics</p>	<p>Dave Shirokauer</p>
	<p>Activity: Your Big Questions</p>	<p>Sarah Bartholow</p>
Break		
	<p>Leave for Teklanika Field Camp</p> <p>Weather and Time Permitting we will stop along the road.</p>	
	<p>Content:</p> <p>Introduction to Landscape Change & Repeat Photography</p>	<p>Sarah Bartholow</p>
	<p>Earth's Energy Budget – Long & Short Term</p>	<p>Jamie Esler</p>
	<p>Arrive at Teklanika Field Camp</p> <ul style="list-style-type: none"> • Camp Orientation • Unload & Set up tent cabins 	<p>MSLC Guide</p> <p>All</p>
Dinner		
	<p>Evening Activity</p> <ul style="list-style-type: none"> • What is a Proxy? • Climate Change in the Media 	<p>Jamie Esler</p>
	<ul style="list-style-type: none"> • PolarTREC & Other Resources • Daily Evaluation 	<p>Sarah Bartholow</p>

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Day Two: Tuesday, 30 June

Today we will gather our packs after breakfast and travel within the Park until dinner. Bring raingear, layers, lunch, snacks, and water.

7:00am	Coffee & Breakfast (Pack Lunch for the field)	
9:00am	Field Excursion – Travel West Weather and Time Permitting: This will be our big travel day in the park. Some short walks and rest breaks will be included.	All Day
	Content: <ul style="list-style-type: none">• Climate Change and Physical Sciences	Dave Shirokauer
	Connect to Classrooms: <ul style="list-style-type: none">• Systems and Feedbacks	Jamie Esler
5:00pm	Return to Camp <ul style="list-style-type: none">• Rest & Resource Review• Walk to Teklanika River	
	Dinner	
	Evening Activity Activity: <ul style="list-style-type: none">• Concept Mapping for the Classroom• Climate Change in the Media Daily Evaluation	Jamie Esler

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Day Three: Wednesday, 1 July

Today we will gather our packs after breakfast and travel within the Park until dinner. Bring raingear, layers, lunch, snacks, and water.

7:00am Coffee & Breakfast
(Pack Lunch for the field)

9:00am **Field Excursion – Hiking**
Weather and Time Permitting: This will be our day to get out and do some moderate hiking.

Content:

- Climate Change and Ecological Sciences

Steve Arthur

Connect to Classrooms:

- Paleoclimates, Proxies, & Dendrochronology

Jamie Esler

5:00pm **Return to Camp**

- Rest & Media Review
- Course Journals/Lesson Templates

Dinner

Evening Activity

All

Discussion:

Sarah Bartholow
& Jamie Esler

- Human Relationship to Climate Change

- Skeptics Scenarios

Daily Evaluation

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Day Four: Thursday, 2 July

Before leaving camp today, everything will be packed and we will not return.

7:00am Coffee & Breakfast

8:30am **Pack up Camp** All

Climate Change in the Media Activity Jamie Esler

Field Excursion – Heading East

Weather and Time Permitting: Will head east to the park entrance and include hikes and breaks.

Content: Dave Shirokauer
Climate Change in our National Parks

Lunch

Activity: Postcards & Solo Sit Sarah Bartholow
ARCUS

Individual Reflections All Participants

Closing

Take Away Message in Science Dave Shirokauer

Take Away Message in Education Sarah Bartholow
&
Jamie Esler

Evaluations and Journals

4:00pm **Drop Off at Vehicles**