

Revised Syllabus

Friday, June 18, 2010

GLOBAL CLIMATE CHANGE: PHYSICAL CHANGES

What is climate change? What are its mechanisms? What are some consequences?

12:00 pm	Meet at Fish Camp General Store: Registration
12:55	Caravan to Jack L. Boyd Outdoor School
1:15	Welcome and Silent Brainstorm
1:45	Staff Introductions
2:00	Pre-test and Snack
2:45	Move into Cabins
3:15	Effects of Elevated Carbon Dioxide on Temperature
3:45	Physical Changes as Evidenced in California (Stations)
5:00	Introduction to the Sierra Nevada Geography and Climate
5:45	BREAK
6:00	DINNER
6:45	(Optional) Short Hike
7:15	Orientation and Introduction to Team Projects
7:45	Team Projects

Saturday, June 19, 2010

GLOBAL CLIMATE CHANGE: ECOLOGICAL RESPONSES

How organisms' ecosystems respond? What are the habitats of the Sierra Nevada?

How do watershed dynamics and geology play a role?

Dawn-ish	(Optional) Early Morning Birding
8:00 am	BREAKFAST
8:45	Introduction to Scientific Journaling
9:45	Local Hike: Journaling and Ecological Responses (Stations)
12:00 pm	LUNCH
12:30	Sampling Biodiversity OR Scientific Journaling (Microhabitats)
2:30	BREAK
3:00	Sampling Biodiversity OR Scientific Journaling (Microhabitats)
5:00	(Optional) Grade-level Teacher Meetings and Skit Prep
6:00	DINNER – Bring your Journal
6:45	Guest Researcher: Grinnell Resurvey
7:30	Guest Researcher: Yosemite and Global Climate Change
8:15	Introduction to the Big Debate
8:30	(Optional) Campfire Social

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Sunday, June 20, 2010

GLOBAL CLIMATE CHANGE: LOCAL DISTURBANCES

Sequoias, wildfires, etc.

Dawn-ish	(Optional) Early Morning Birding
7:00 am	BREAKFAST and PACK UP
7:15	(Optional) Naturalist Skills with Guest Researcher
8:00	Caravan to Mariposa Grove
8:20	Mariposa Grove: Scientific Journaling
12:30 pm	Return to Jack L. Boyd and LUNCH
1:00	Team Projects
2:00	Wrap up weekend and Adjourn

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Friday, June 25, 2010

GLOBAL CLIMATE CHANGE: HUMAN IMPACT

Ecosystem services, human footprint, and introduction to climate change

12:00 pm	Meet at Jack L. Boyd Outdoor School: Welcome
12:30	Scientific Journaling
2:00	Team Projects
4:00	Move into Cabins
4:45	Prepare for the Big Debate
5:00	The Big Debate: Reducing our Carbon Footprint
6:00	DINNER and Introduction to Saturday's Hike
6:45	(Optional) Volleyball Game
7:15	Guest Researcher: Mitigation and Adaptation Strategies
7:45	Guest Researcher: Antarctica and Global Climate Change
8:15	Team Projects

Saturday, June 26, 2010

GLOBAL CLIMATE CHANGE: ALTITUDINAL EFFECTS IN HIGHER SIERRA NEVADA

Phenologies, glaciers, albedo effects

7:00am	BREAKFAST and Prepare for Hike
8:00	Caravan to hike site (Sentinel Dome)
9:00	Scientific Journaling along hiking trail
11:30	Caravan to Jack L. Boyd Outdoor School
12:30pm	LUNCH
1:30	Team Projects (Last Time in Field)
5:00	Global Climate Change Jeopardy
5:30	(Optional) Grade-level Teacher Meetings & High School Vernier Water Testing
6:00	DINNER
7:00	Guest Speaker: Critical Thinking and the Media
7:30	Misconceptions and Global Climate Change
8:15	Team Projects (Turn in Equipment)

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Sunday, June 27, 2010

FINALE

Dawn-ish	(Optional) Early Morning Birding
8:00am	BREAKFAST and PACK UP
8:30	Post-Test and Evaluations
9:15	Preparation for Final Presentations
9:30	Final Presentations on Team Projects
10:30	BREAK
10:45	Continue Final Presentations
11:45	Wrap-up of the Institute
12:30	LUNCH
1:00	Adjourn institute