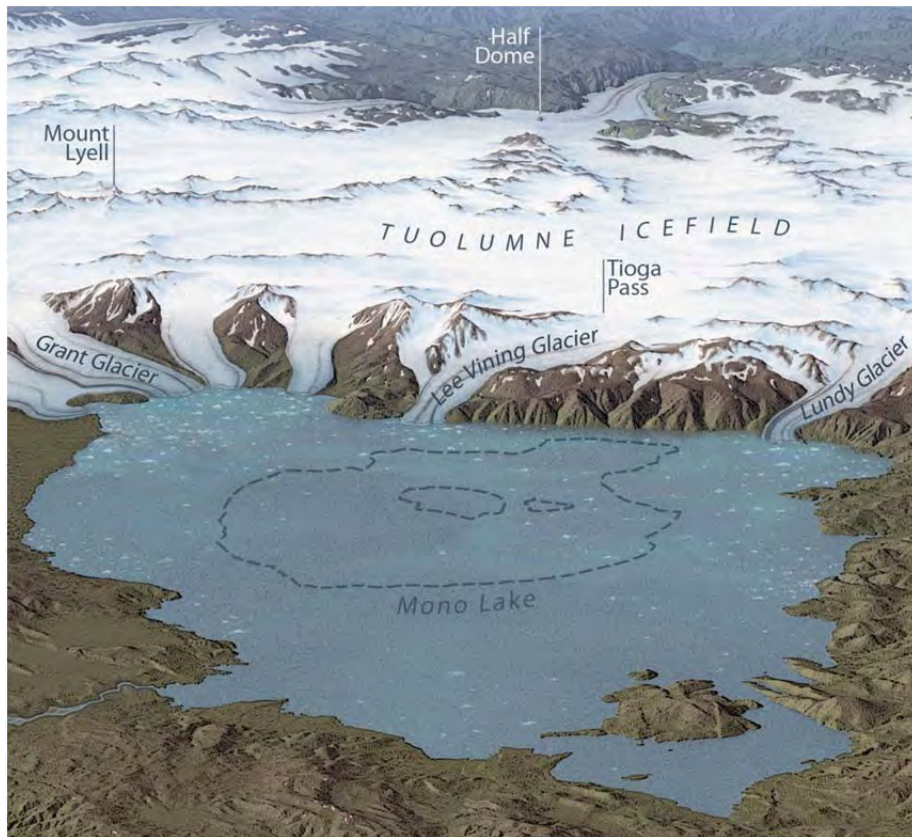


Geology of the Mono Basin: Land of Fire & Ice



The Mono Basin as it might have looked circa 120,000 years ago. Illustration by Eric Knight.

Greg Stock
August 10–12, 2012

\$150 per person / \$135 for Mono Lake Committee members
enrollment limited to 15 participants

From volcanic craters to glacial moraines, earthquake faults to tufa towers, the Mono Basin displays some of the most unique, spectacular, and accessible geology anywhere in the world. This seminar, consisting mostly of field visits to the premier sites, will present in understandable fashion the geologic stories of the Mono Basin. The seminar will visit and explain such scenic wonders as Mono Lake, the Mono Craters, Black Point, Lee Vining Canyon, and Tioga Pass. If you've ever wanted to know more about the geologic forces that formed the diverse landscapes of the Mono Basin, this trip is for you.

Greg Stock is the first-ever Yosemite National Park geologist. He has a BS in geology from Humboldt State University and a PhD in earth sciences from UC Santa Cruz. A near-lifelong resident of the Sierra Nevada, Greg has studied and interpreted the geology of the Sierra Nevada

for over 12 years. He has authored or co-authored over 50 papers and abstracts on Sierra Nevada geology, and is co-author of the book *Geology Underfoot in Yosemite National Park*. Greg is excited to share his knowledge of, and passion for, the outstanding geology of the Mono Basin!

ITINERARY

The itinerary for this seminar will be flexible in order to respond to local conditions and class participant interest.

Friday, August 10, 7:00pm: Meet in the gallery at the Mono Lake Committee Information Center & Bookstore. After introductions, we will view a slideshow presentation that will review basic geologic concepts and provide some background on the Mono Basin sites that we will visit in the following days.

Saturday, August 11, 8:00am: We will meet at the Mono Lake Committee and then carpool to field stops at Panum Crater, South Tufa, the Aeolian Buttes, Black Point, and possibly others, finishing the day by about 4:00pm.

Sunday, August 12, 8:00am: We will meet at the Mono Lake Committee and then carpool to stops in Lee Vining Canyon, Ellery Lake, and Tioga Pass. We will finish the day at Tioga Pass by 3:00pm.

Altitude and Dehydration Cautions: Remember to bring (and drink!) lots of water because your body loses more water at the higher altitudes of the Mono Basin. Experts recommend that you begin drinking extra water as you drive to higher elevation in order to prevent dehydration and headaches. Also, the sun is capable of burning even on cool and cloudy days, so be sure to protect yourself thoroughly using sunscreen, sunglasses, and hat.

TO BRING

- hand lens
- notebook and pen/pencil
- camera
- binoculars (optional)
- appropriate field clothing: hat, sunglasses, warm layers, raingear
- day pack including plenty of water, sunscreen, mosquito repellent, etc.
- packed lunch for each day

RECOMMENDED BOOKS

- Glazner, Allen, and Greg Stock, *Geology Underfoot in Yosemite National Park*, Mountain Press, 2010.
- Hill, Carol, *Geology of the Sierra Nevada, Revised Edition*, California Natural History Guides Series No. 80, University of California Press, Berkeley, 2006.
- Tierney, Timothy, *Geology of the Mono Basin*, Mono Lake Committee Field Guide Series, Kutsavi Press, 1995.



Mono Lake Committee Field Seminars

P.O. Box 29 • Lee Vining, CA 93541 • (760) 647-6595 • www.monolake.org