

## South Park

### 2025 Colorado Scientific Society Fall Field Trip

Saturday, Sept. 20, 2025

Field trip Leaders: Peter Barkmann, Ned Sterne, and Cal Ruleman

Please join us for the Fall 2025 CSS field trip. This one-day field trip will visit locations where we will examine how Paleozoic, Mesozoic, and Cenozoic strata record the tectonic signatures of at least three orogenic episodes and present a stratigraphic and structural framework that can be applied in many regions across the Intermountain West and Rocky Mountain region. We will cross the Elkhorn–Williams Range thrust system into the structural block caught between Laramide uplifts of the Front Range and Sawatch Anticlinorium, and visit preserved synorogenic sediments from the Pennsylvanian–Permian ancestral Rocky Mountain tectonic episode. We will visit Late Cretaceous marine sediments from the Western Interior Seaway caught up in complex fold-fault structures between Laramide uplifts create targets for petroleum exploration. We will look at Neogene extensional faulting and evaporitic tectonism originating from Pennsylvanian evaporite deposits. Spectacular glacial and glaciofluvial geomorphology and timing of Pleistocene glacial intervals will be discussed. Lastly, we will look at cross-cutting relationships between Laramide reverse faults and Neogene extensional normal faulting across the region.

We will depart from the Morrison Park-N-Ride off the northwest corner of the intersection of I-470 with W. Morrison Rd/Bear Creek Ave., east of Morrison at 7:30 am on Saturday, Sept. 20, 2025.

Turn north on Rooney Rd, just west of the I-470 interchange, and then turn into the Morrison Park-n-Ride. See [Morrison Park-n-Ride](#) on Google Maps.

**This is a change from the meeting place announced earlier**

Please bring a sack lunch and beverages. We plan on all attendees to coordinate carpooling from the meeting area.

Please contact Cal Ruleman at [cruleman@usgs.gov](mailto:cruleman@usgs.gov) to sign up for this event.