Preliminary Announcement
2021 Northwestern Cell Friends of the Pleistocene
Glacial Lake Missoula
When: September 9-12, 2021
Where: Paradise Center, Montana http://www.paradisecentermt.org/

Announcement Information


FOP Sites and routes.kmz

First Announcement

This trip was canceled in 2020 due to the pandemic, but I am optimistic that carpooling can take place in September 2021. Check out http://www.fop.cascadiageo.org/ for information.

As of now, the Northwestern Cell of the Friends of the Pleistocene is planning on returning to the glacial Lake Missoula basin after 28 years since the last meeting. The trip is being coordinated by Larry Smith (lsmith@mtech.edu) with help from others that have worked in the lake basin.

We will examine glacial lake deposits along with evidence for multiple lake stands and drainage events at both classic sites and recently discovered and described locations.

Logistics:

Like most Friends trips, we will be relying on carpooling to stops in western Montana. Unfortunately, most of the roads we'll travel are two-lane highways with tight accommodations and parking spaces, therefore the trip size will be limited to approximately the first 75 participants. We would appreciate people with larger vehicles, such as minivans, vans, or suburbans, bringing them along and filling them to capacity. Two-person pickup trucks or other vehicles are discouraged. None of the driving will be on roads requiring high-clearance vehicles.
COST: $20 for attendance on any part of the trip and **to reserve a space**. This will cover handouts, some snacks, and any remainder will be donated to the Paradise Community Center for hosting us. Camping or lodging costs are separate (see below).

- Registrations will need to be sent via your PayPal account to Larry at uptownlarry.smith@gmail.com or mailed with a check made out to:
  Larry Smith
  Geological Engineering, Montana Tech
  1300 W. Park St
  Butte, MT 59701

Lodging

- Camping – Sanders County Fairgrounds (please make your own reservations – we are working with the County Fairgrounds – so they are aware of this schedule)
  - Scenic, on Clark Fork River, grass and trees; options available
  - https://www.sanderscountyfair.com/templates/index.php?fairID=12345#

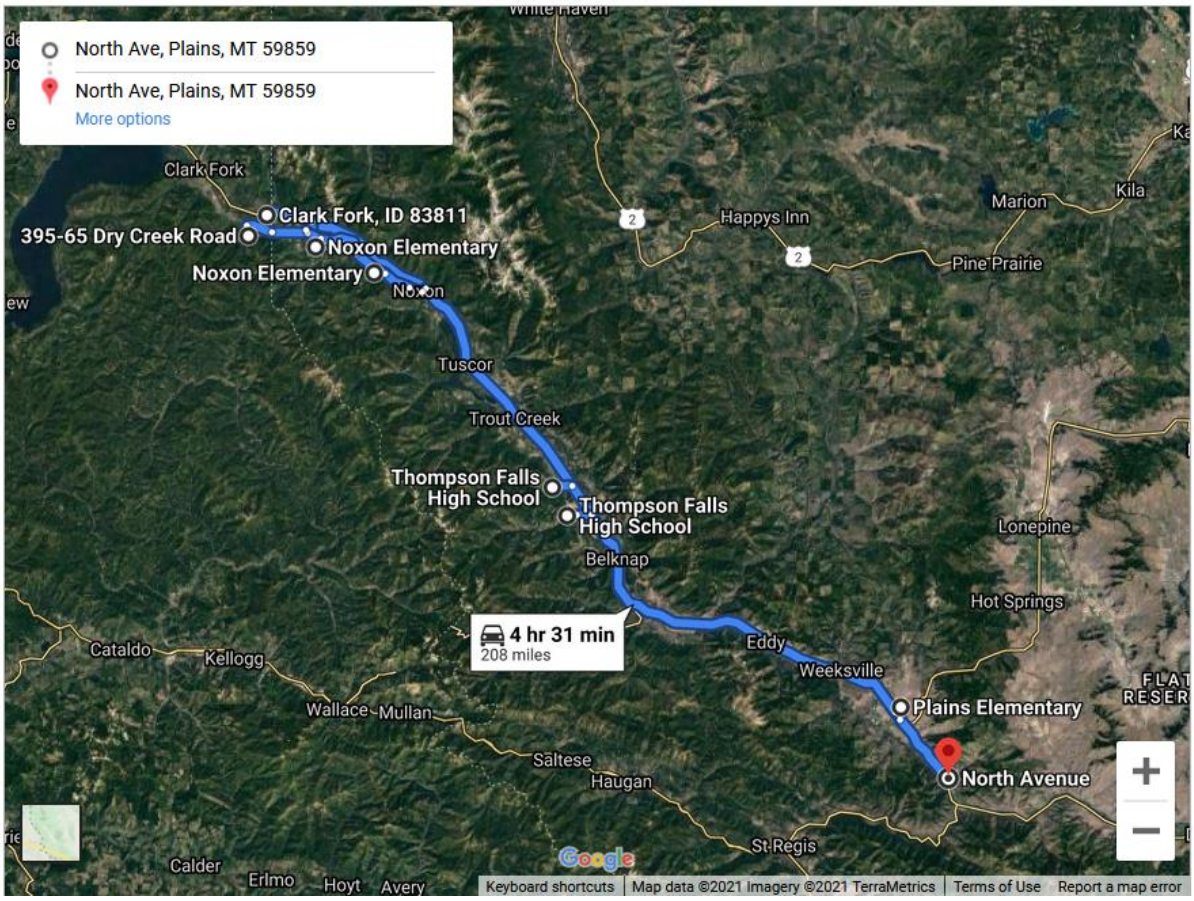
        - They are having some issues with the website, it should be back up soon.
        - Phone: (406) 826-3202
    - Dry Camp (no power or water at sites, but access to bathrooms with one shower per gender) $15/night
    - Full service - power and water at site, same bathroom and shower access
        - 110 volt - $25/night (>100 sites)
        - 30 amp RV hookup with water - $30/night (6 sites)
        - 50 amp RV hookup with water - $35/night (40 sites)
    - No sewer hookup at any sites
- Camping at Paradise Community Center (contingent on the center's staff) – no power or showers, walk-in tent camping, water and bathrooms available – prices to be determined.
- Motels
    - Plains, MT - Dew Duck Inn (6 miles) https://www.dewduckinn.com/
        - (406) 826-3346
    - Plains, MT - Glacier Crossroads Lodging (6 miles) https://glaciermt.com/listing/glacier-cross-roads
    - Quinns Hot Springs Resort (5 miles) https://www.quinnshotsprings.com/
    - More in St. Regis, MT (25 miles)
- Food is the responsibility of the participants
- Gas and groceries – available in Plains, MT
- Guidebook – likely mostly road logs with papers and some figures delivered electronically

Preliminary **Itinerary –** One or two stops may move between days, depending on our progress.

Thursday September 9 – Day 0, about 5-6 PM – set up, hand out the road guide information, drink beverages, overview some items in the Paradise center and visit their glacial Lake Missoula display.

Friday September 10 – Day 1, leave about 8AM – Driving about 208 miles **roundtrip** to Clark Fork, Idaho https://goo.gl/maps/fpPPJtNgMMKB4npd6

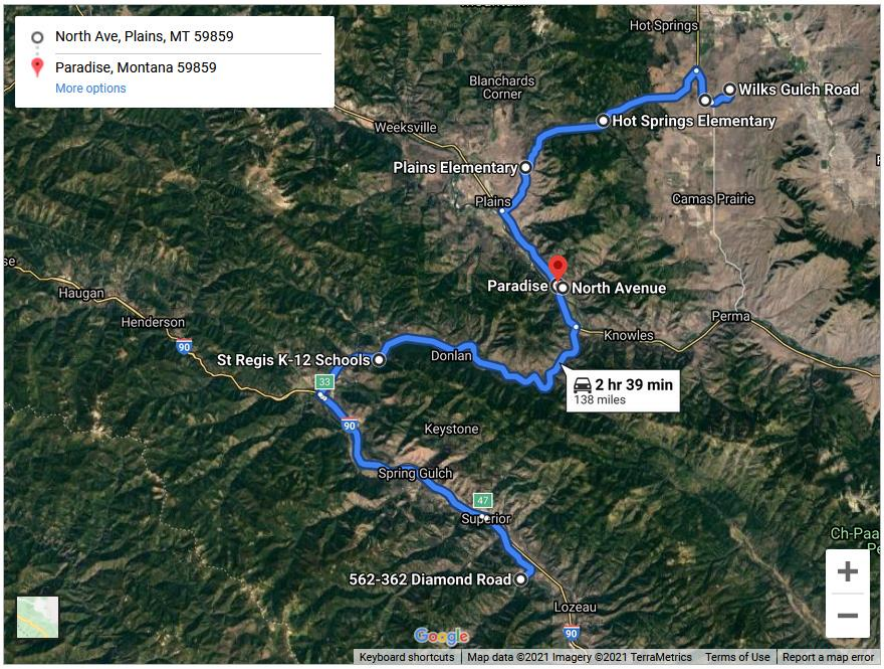
Examine glacial deposits and history, glaciolacustrine deposits within “ice dam region.” Discuss evidence for several terminal Purcell Lobe ice dam positions for the lake impoundment; gravelly alluvium likely deposited during lake draining events; Eddy Narrows site of Pardee’s discharge calculations; glaciolacustrine deposits at Heron, MT (near a late ice-dam position). Most stops are labeled as “schools” for some reason.



Saturday September 11 – Day 2 leave about 8:30AM – Driving about 138 miles **round trip** - https://goo.gl/maps/Lg7dPnqB7o4gWRkS6

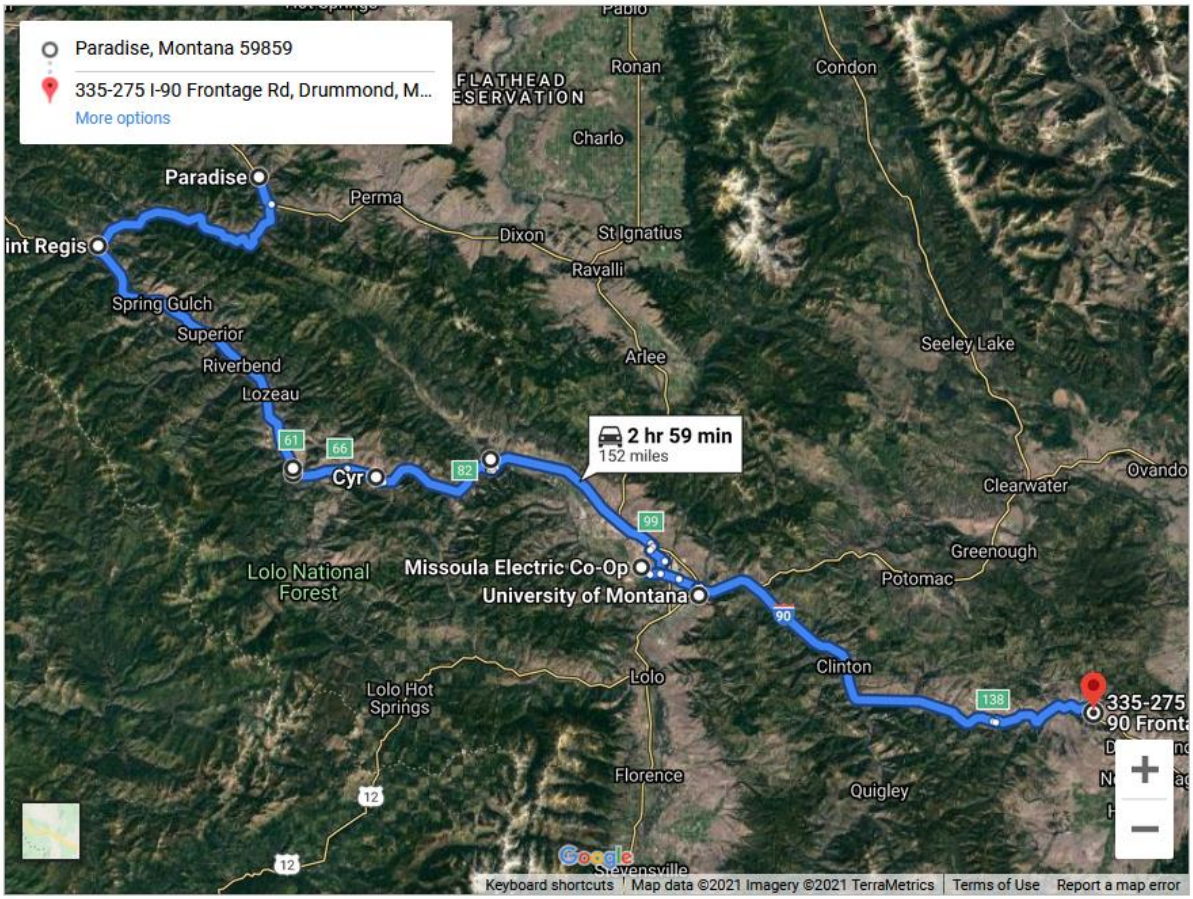
Lake drainage features – Markle Pass, Camas Prairie, Clark Fork River Paradise to St Regis Plan is to catch Markle Pass dunes at early morning light; discuss flow velocities into Camas Prairie and Dog (Rainbow) Lake during lake-level lowering from near maximum levels, ,

visit large imbricated boulders in canyon reach, discuss deposits in the St Regis and Superior areas.



Sunday September 12 – Day 3 leave about 8:30AM – Clark Fork River valley, Ninemile area, and Missoula Valley – Driving about 152 miles **one way** to near Drummond, MT - https://goo.gl/maps/JyBmeV82oDM2cZxY7

Lake drainage features, glaciolacustrine deposits, and geochronology. Plan is to view giant bars along the Clark Fork River, including Cyr eddy bar, Tarkio bar with overlying glaciolacustrine deposits, view of Ninemile section, gravel deposits on top of Cayuse Hill, visit to Rail Line section in Missoula Valley, and view of shorelines. Plan is to have the trip end at the Garden Gulch section where details of subaerial exposure of glaciolacustrine deposits can be viewed in a narrow, steep outcrop along the Clark Fork River.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Cyr
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