Weathering and Regolith Formation

**Approaches:**

* Need to do geochemical analysis across the gradient
* dust story with microbial
* Strontium and neodymium isotopes: identify dust sources and long-term contributions of dust to these soils.

**Gaps, Resources, Opportunities**

* Apply the EEMT from Arizona to here? Add ..... to the thermodynamic model to get more precise weathering information from the model;
* Gap within the EEMT model is that it lacks time aspects: How long have the processes been going on? Could be very different aged surfaces with the paraglacial aspects
* Point sampling of geochemistry
* Engage Craig with regolith development as well. Drilling project with imaging needs process-based understanding of why we find what we do. SJER - Heather R. started with soil samples August 19. Toby also has a 15-profile archive (10 cm intervals)
* **How do we define the catenas? Determines much of our other sampling design. How much of the topographic variability, dominate soils, geology differences, etc. do we have covered under the current permits?**
* **Use the approach for subsampling/resampling the landscape that Riebe used to create the "fake Bald mtn" used in comparison = lead to a DEM-linked state factor study.**

**Cross-CZO Opportunities**