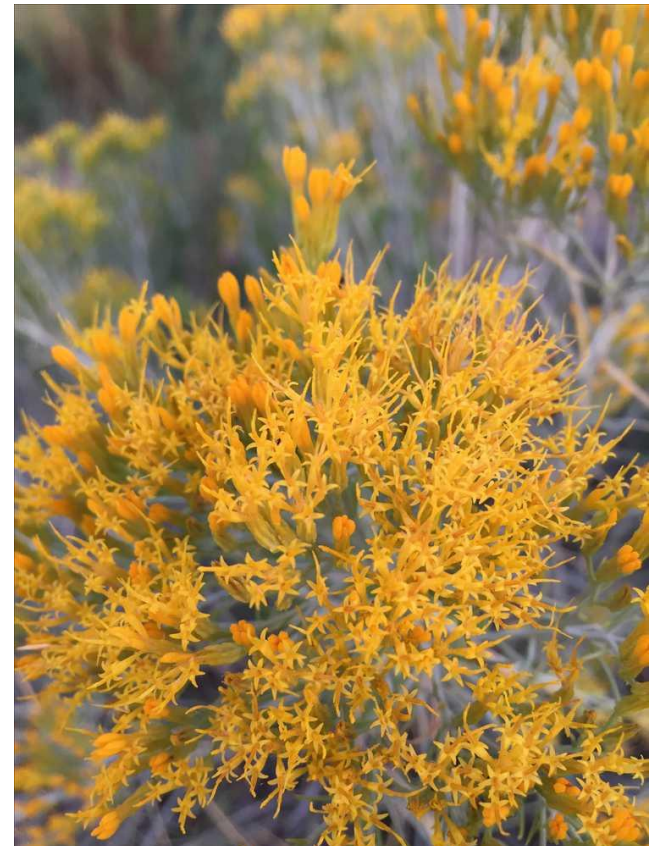


# Utilizing next-generation sequencing to discern the evolutionary relationships among the Rubber Rabbitbrush varietal complex

- Bryce Richardson, USDA Forest Service-RMRS, Provo
- Tom Parchman, Department of Biology, University of Nevada, Reno



# *Ericameria nauseosa*:

- 20-24 different varieties with putative introgression
- Literature differs in morphological classification
- Why? Rubber rabbitbrush is
  - a widespread pioneering species
  - non-competitive with native forbs or sagebrush
  - stabilizes soils and provides wildlife habitat
  - a late season food resource for pollinators
  - underutilized in restoration and could help foster sagebrush establishment.



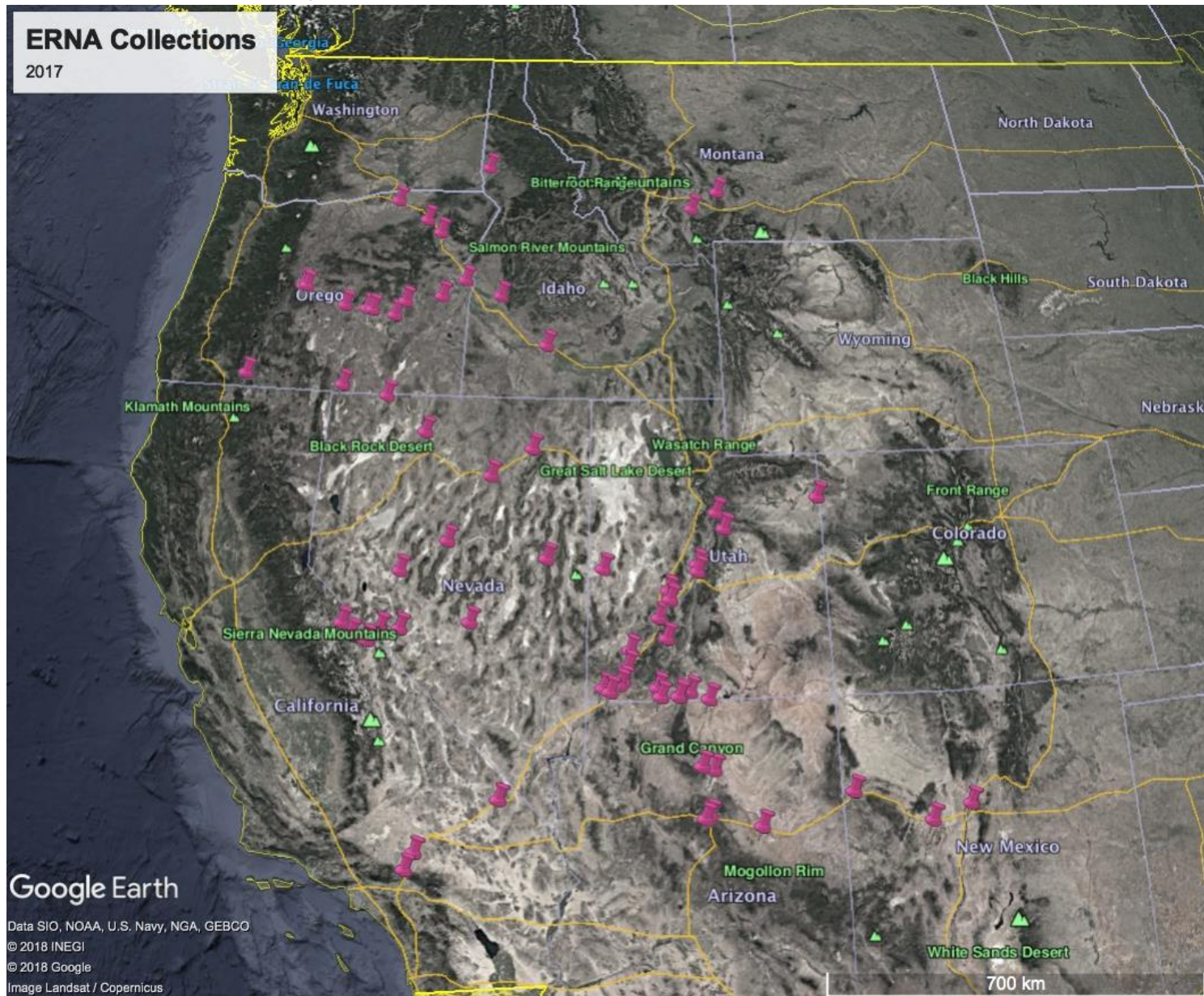


# Objectives

- Gain understanding of the intraspecific variation and evolution.
- Compare genetic relationships with taxonomy. What morphological characters are useful in diagnosing taxa?
- Identify varieties most applicable for restoration and make recommendations of geographical regions for their use.

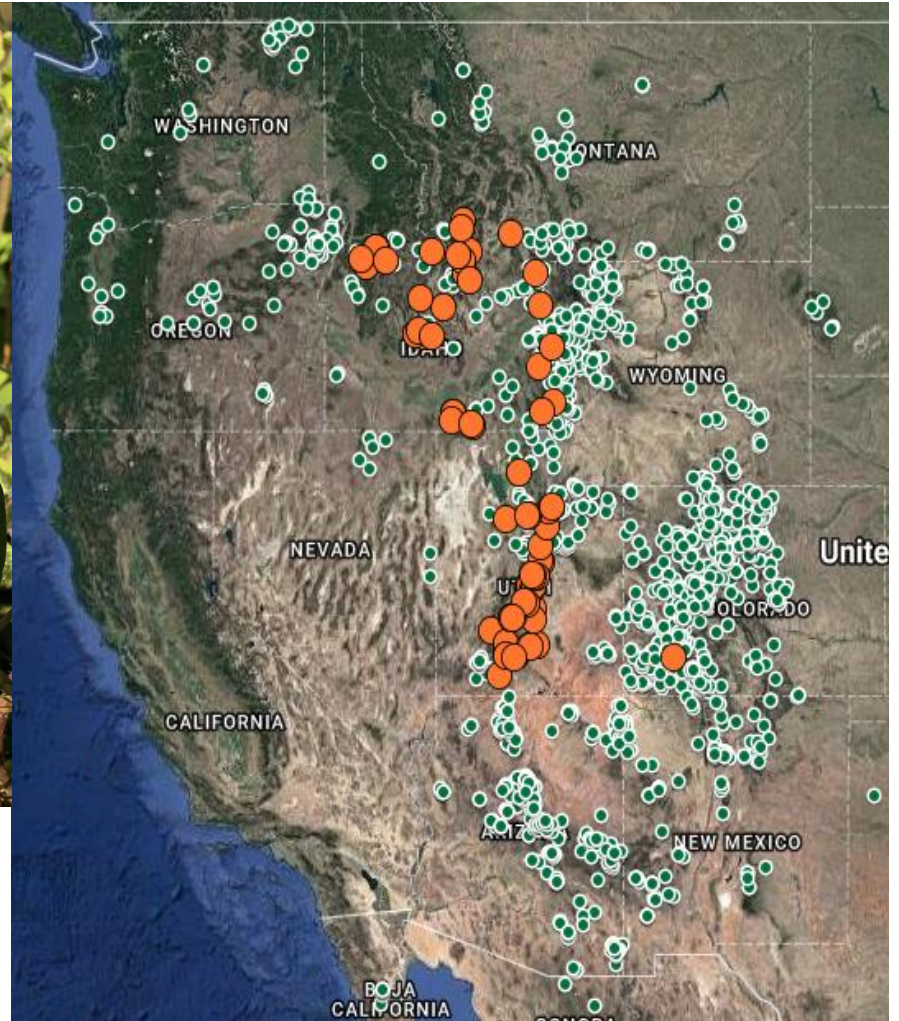


# Summer 2017





# Aspen fleabane (*Erigeron speciosus*)



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