

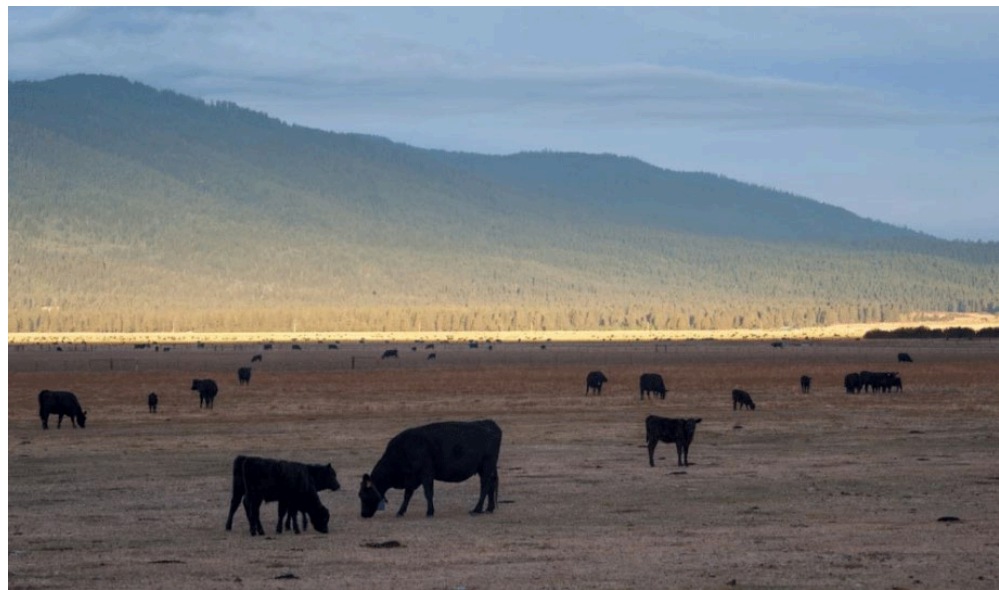


Sierra Valley Groundwater Sustainability Plan Development

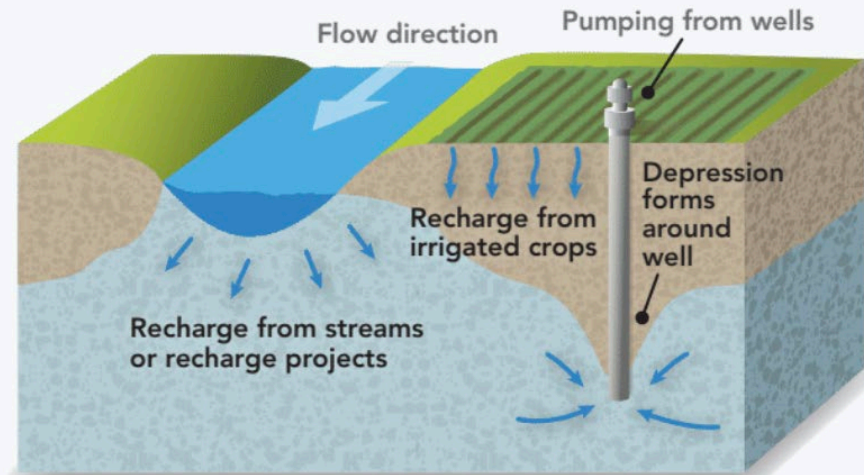
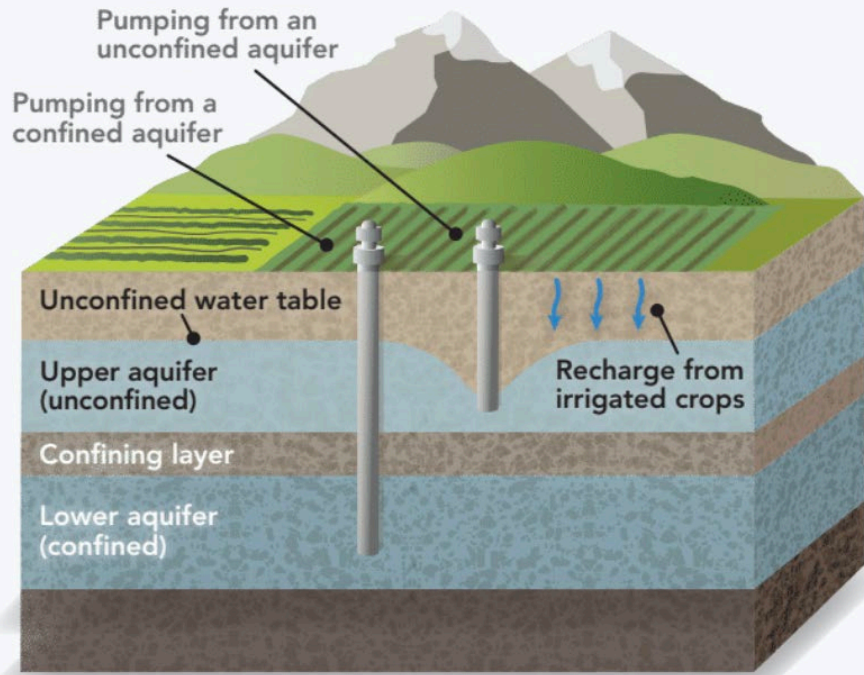
GROUNDWATER LEVEL DECLINE IN SIERRA VALLEY AND DOMESTIC WELL PROTECTION

Approaches to quantify Undesirable Results, Sustainable Management Criteria, and Interim Milestones

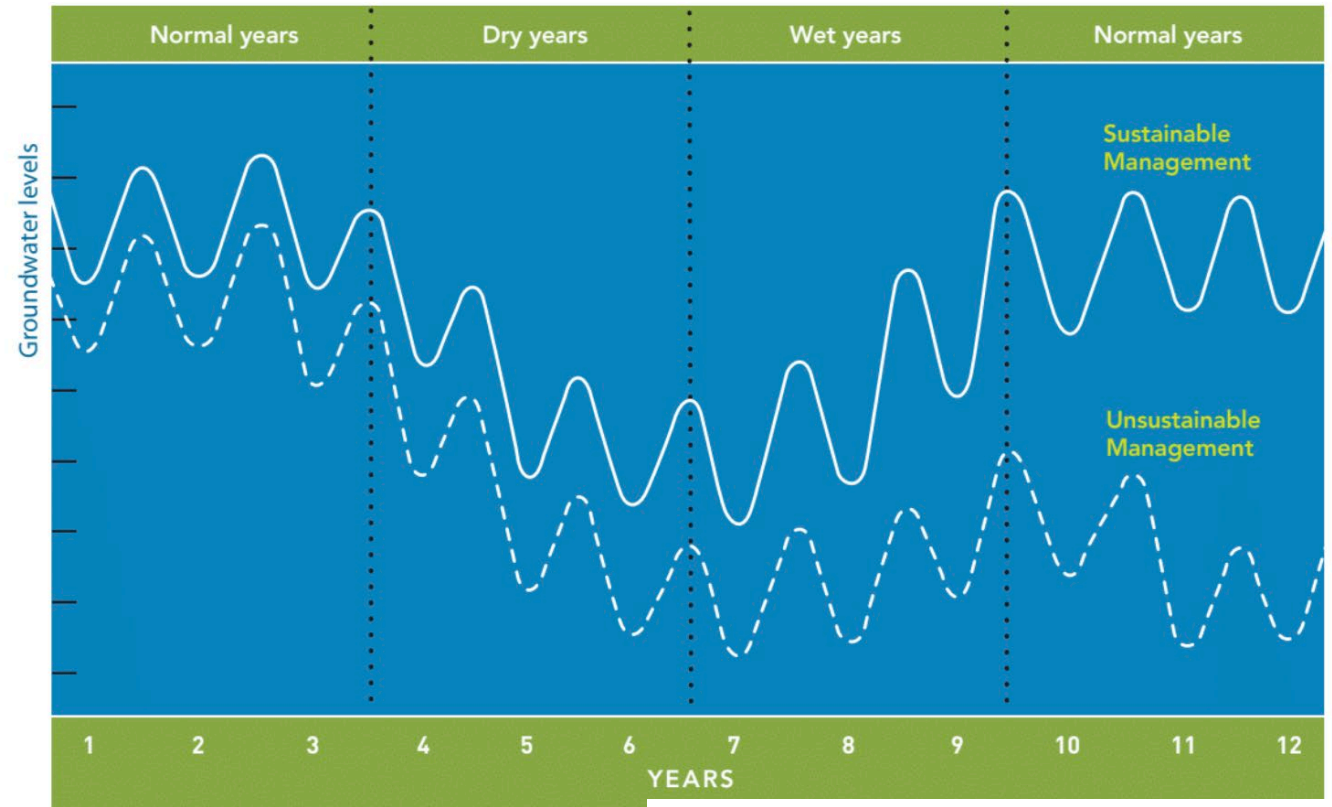
March 15, 2021




Agenda




SUSTAINABLE VERSUS UNSUSTAINABLE MANAGEMENT

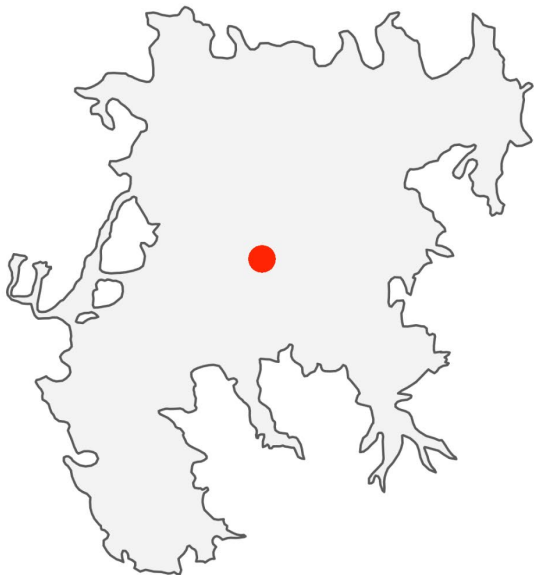


Groundwater elevation trends

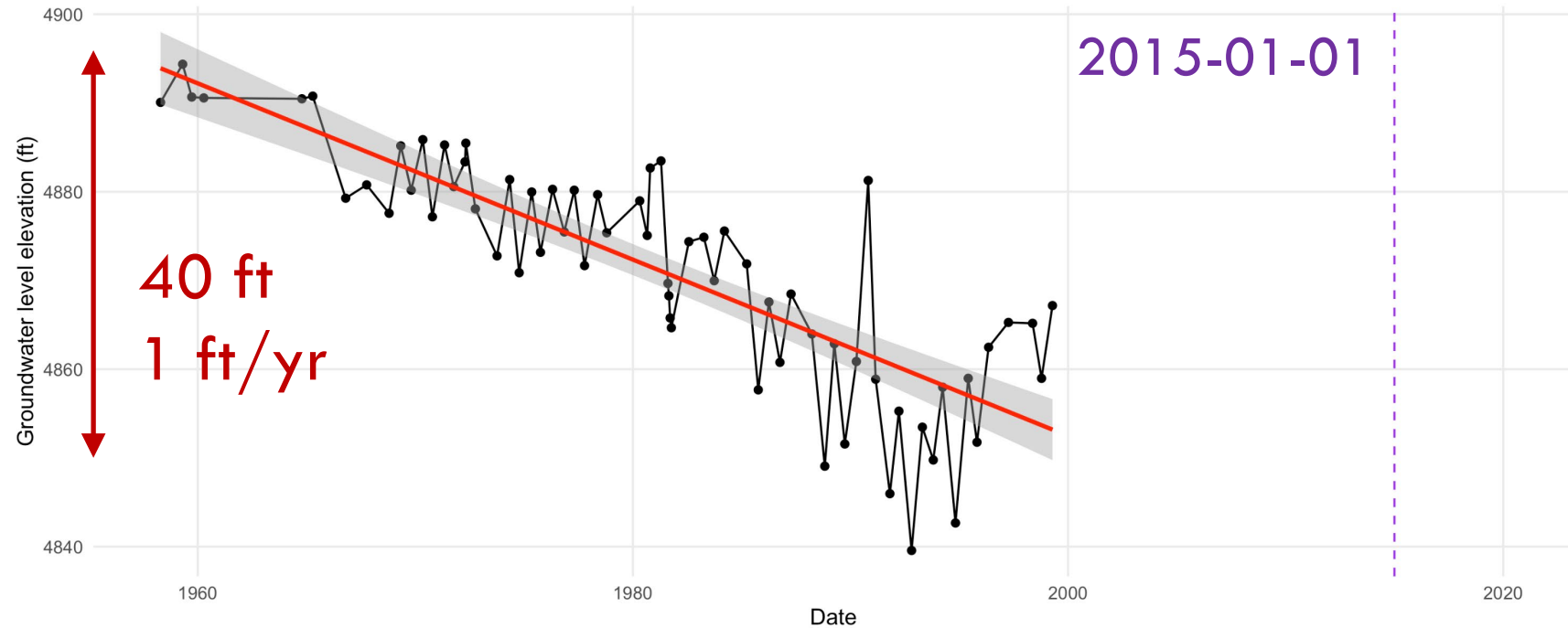

decreasing

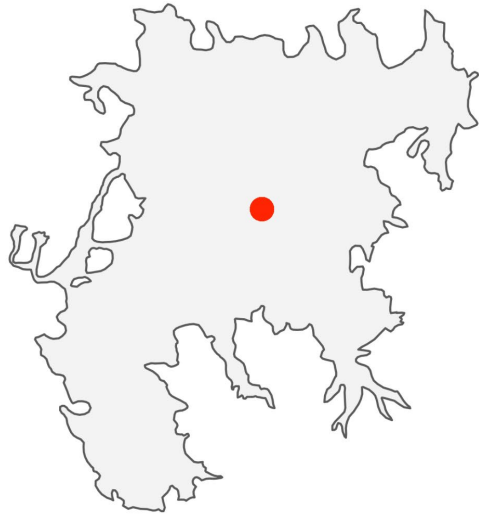

stable (flat)


increasing



Well ID: 119 // Depth: 296 ft // Perforated interval: NA - NA ft



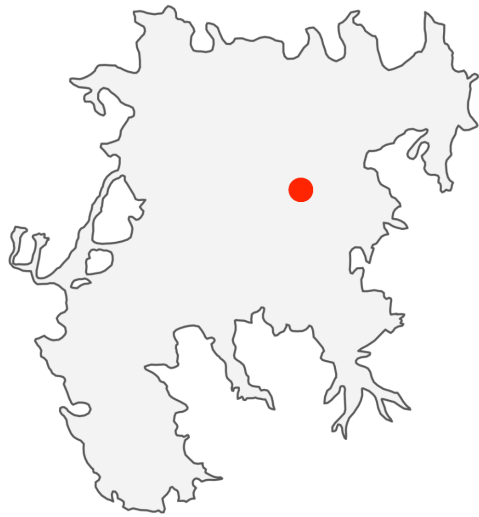
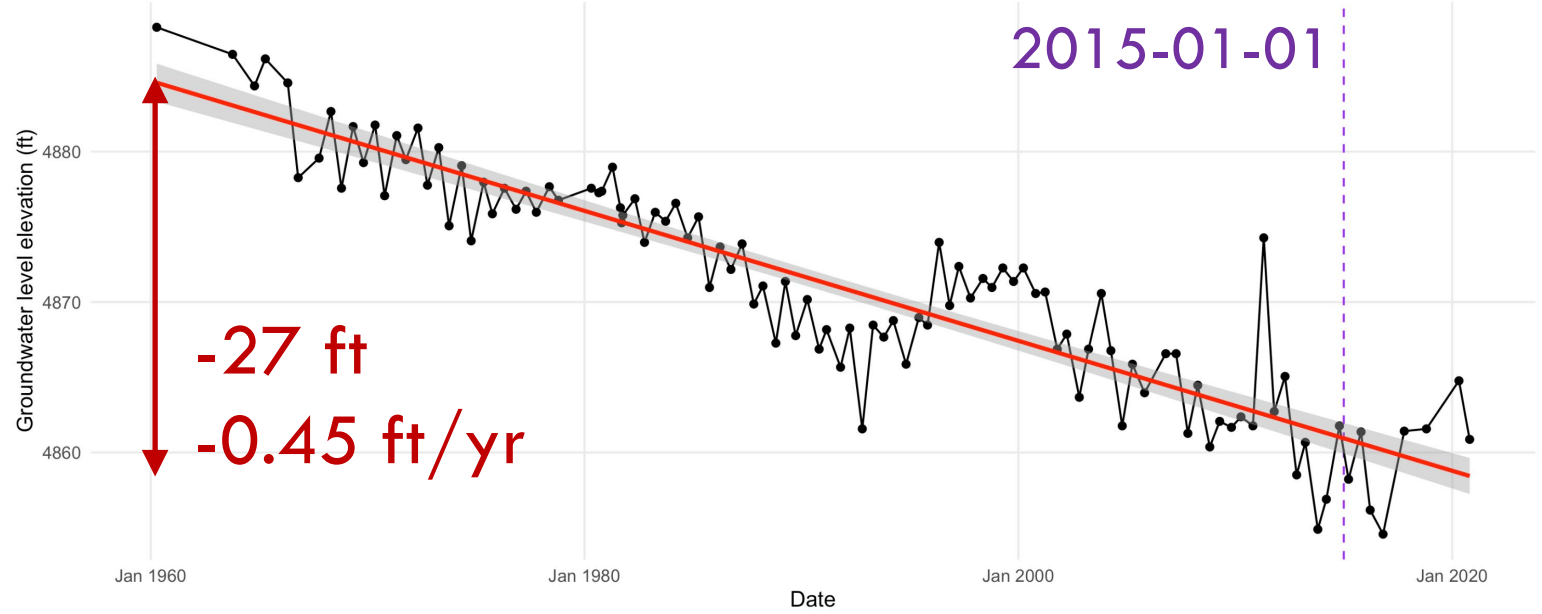


(39.7403, -120.287)



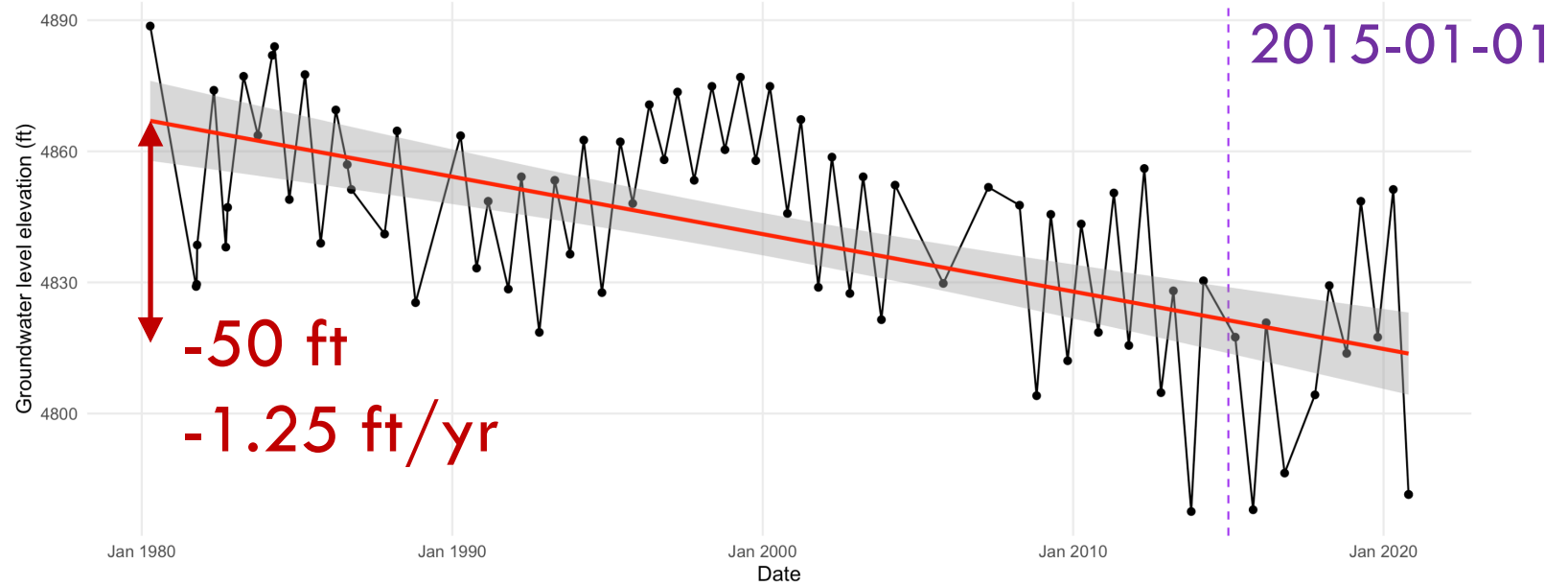
decreasing

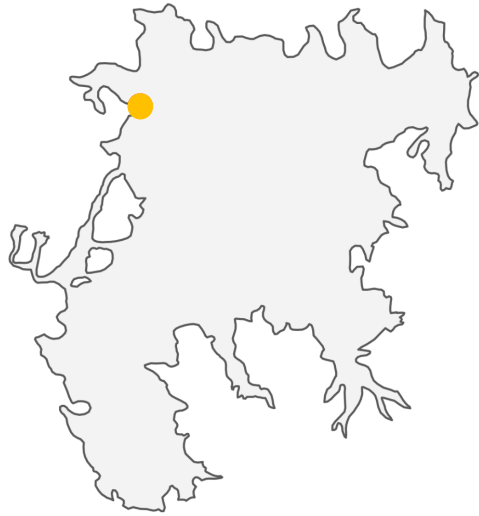
Well ID: 112 // Depth: 600 ft // Perforated interval: NA - NA ft



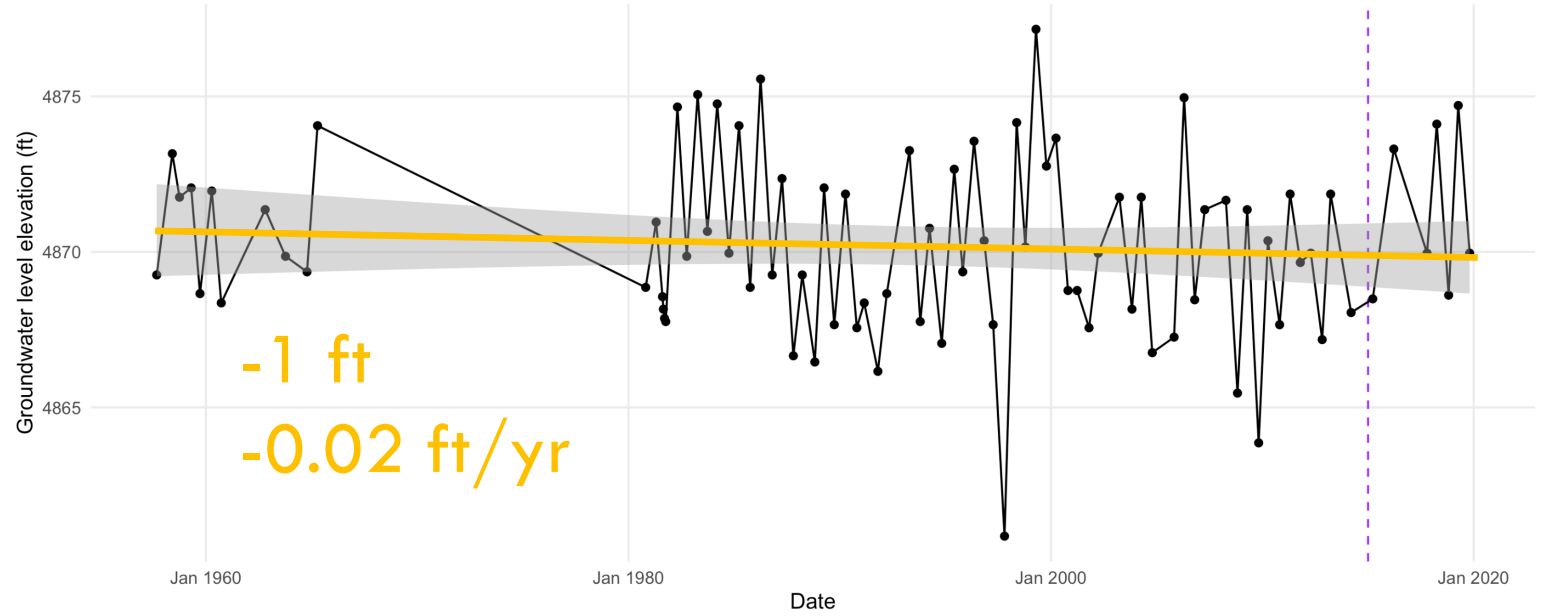
(39.7527403, -120.2566675)

Well ID: 100 // Depth: 800 ft // Perforated interval: 435 - 740 ft





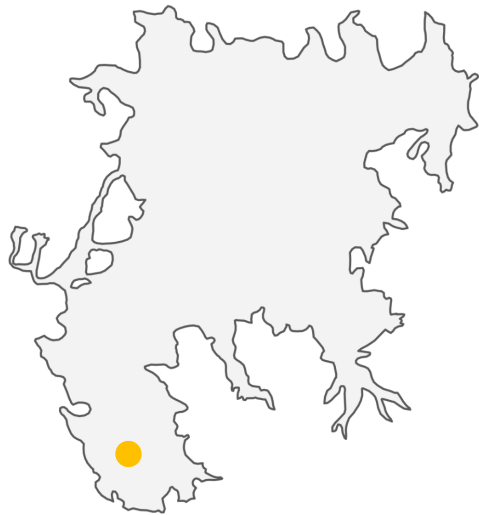
Well ID: 161 // Depth: 18 ft // Perforated interval: NA - NA ft



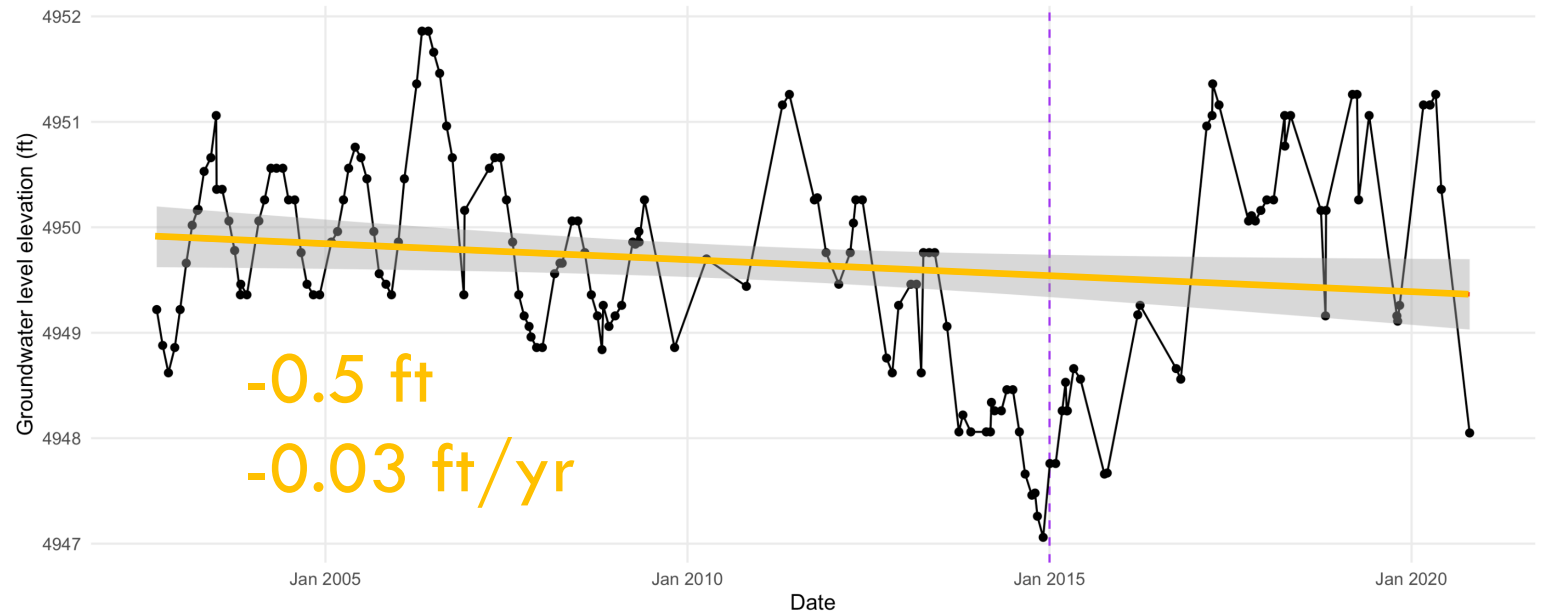
(39.802017, -120.381727)



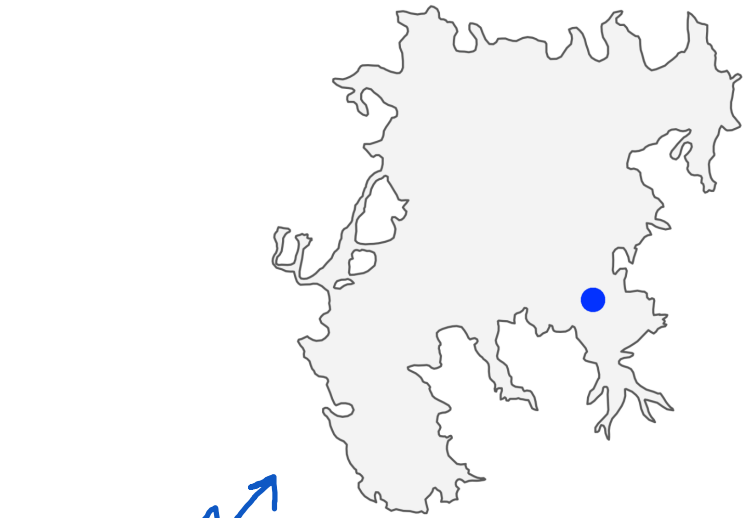
stable (flat)



Well ID: 290 // Depth: 670 ft // Perforated interval: 220 - 250 ft

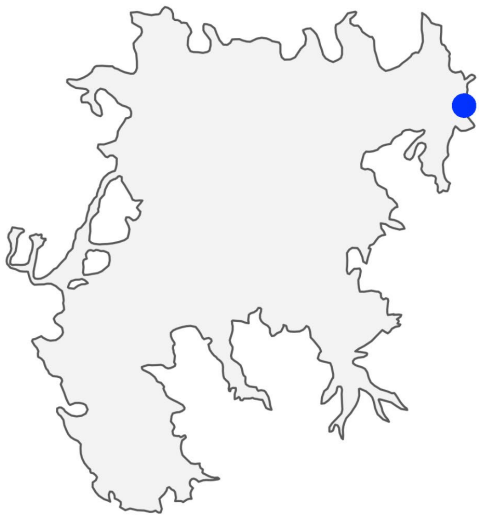
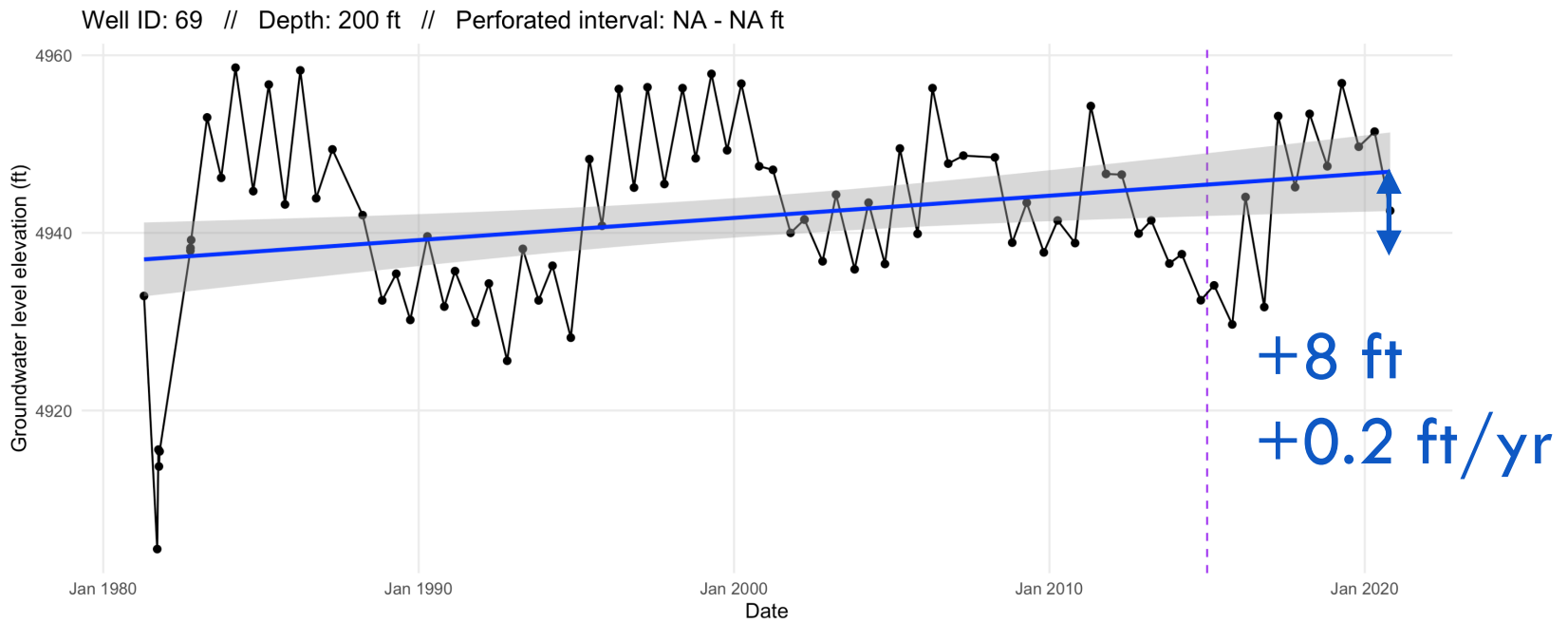


(39.595064, -120.3910121)

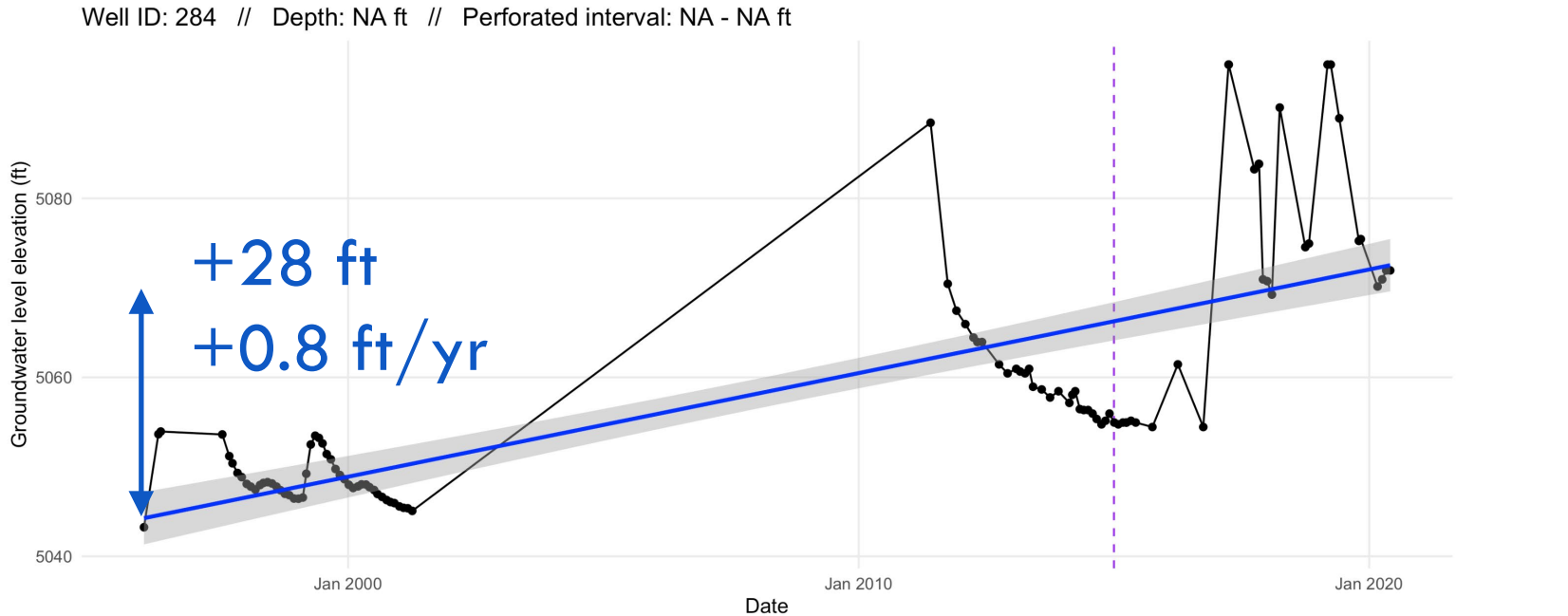


(39.687371, -120.234103)

increasing

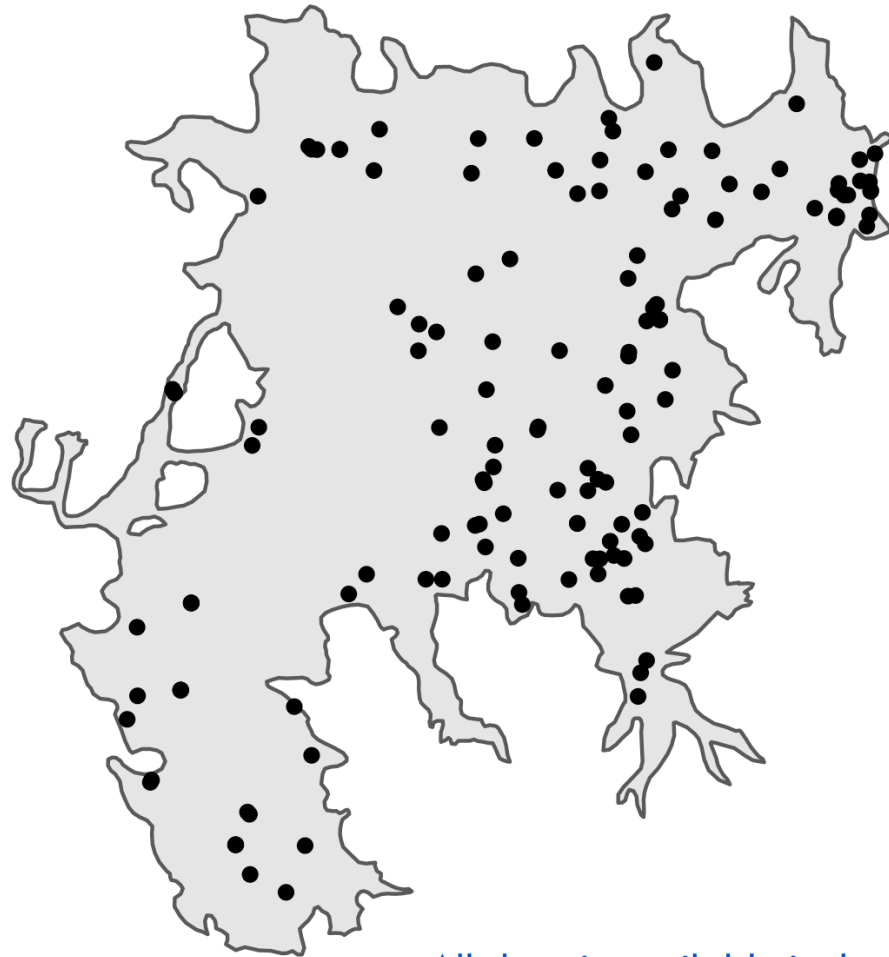


(39.8035742, -120.1276009)

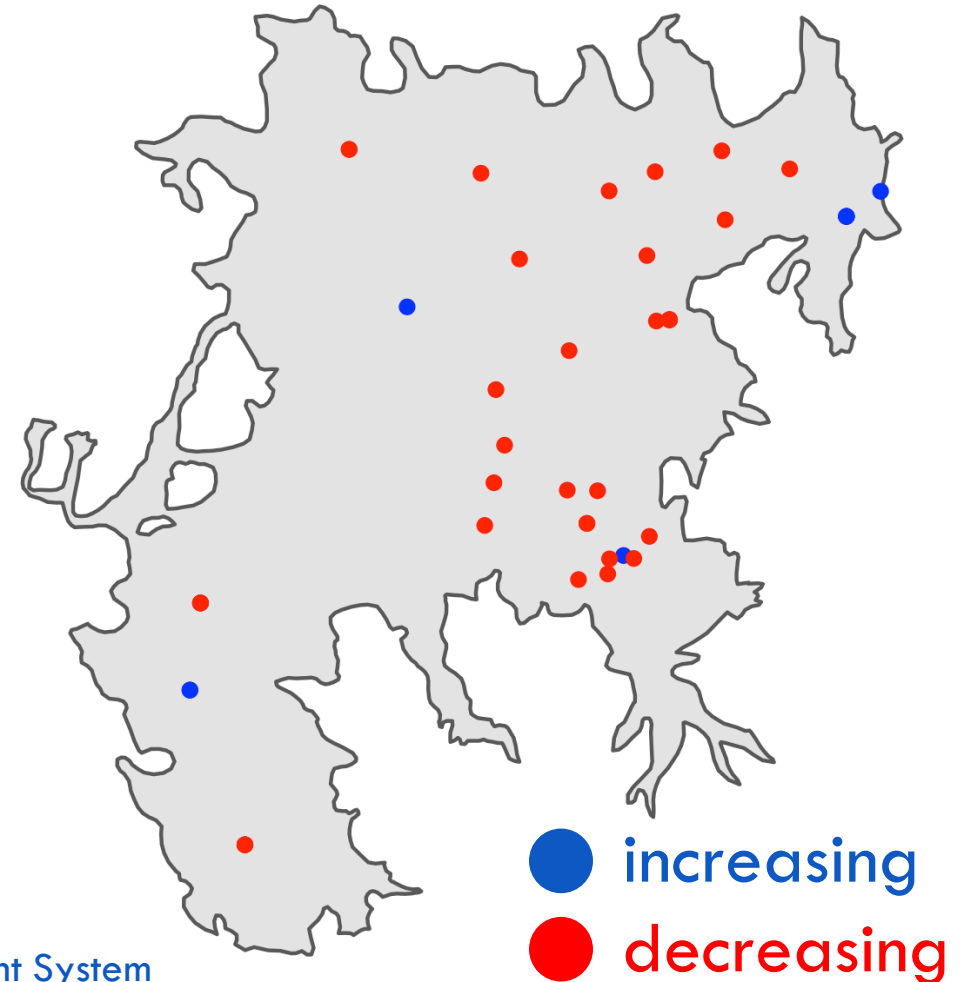


Groundwater level monitoring locations

pre-2000 (historical)

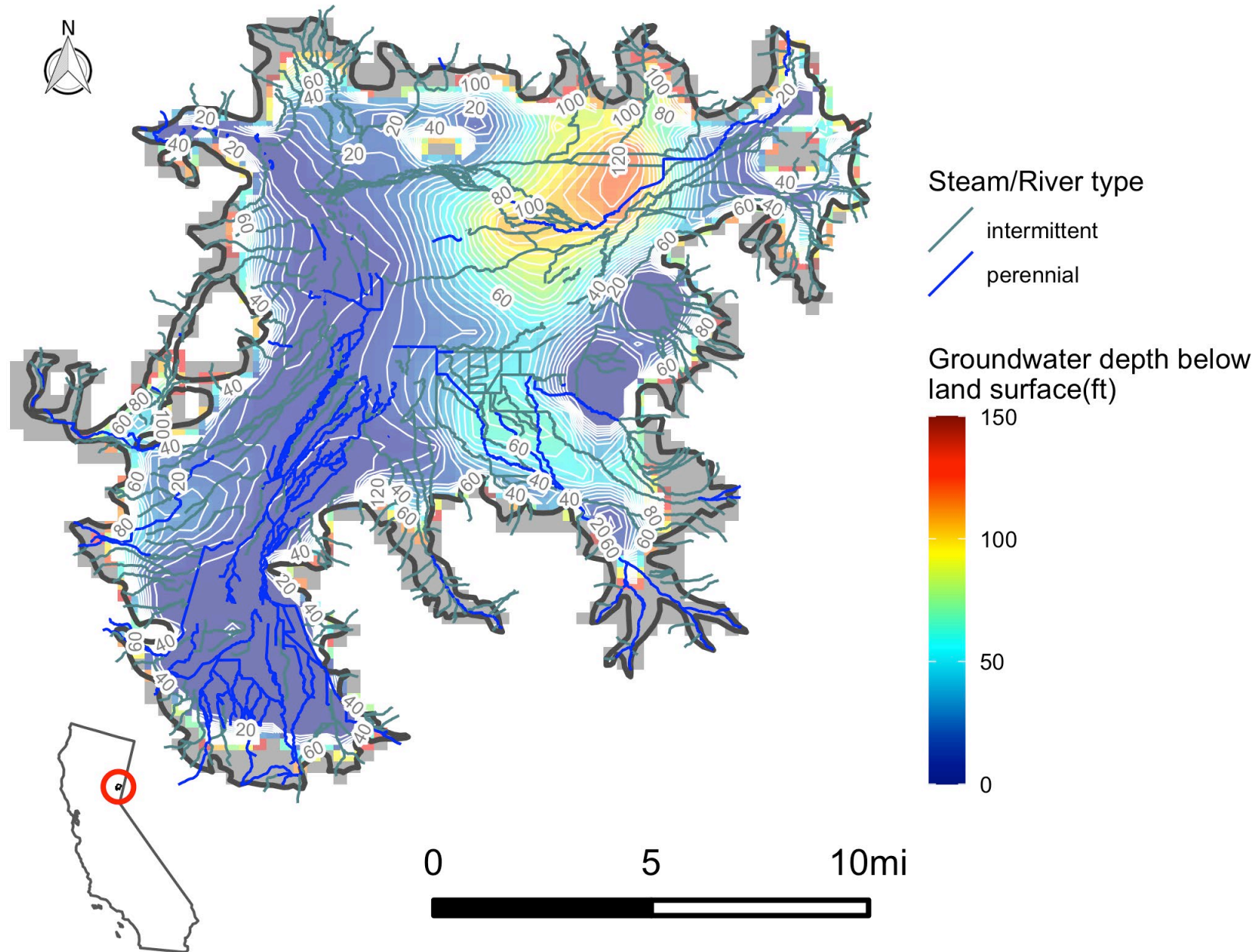


through-2020 (present-day)



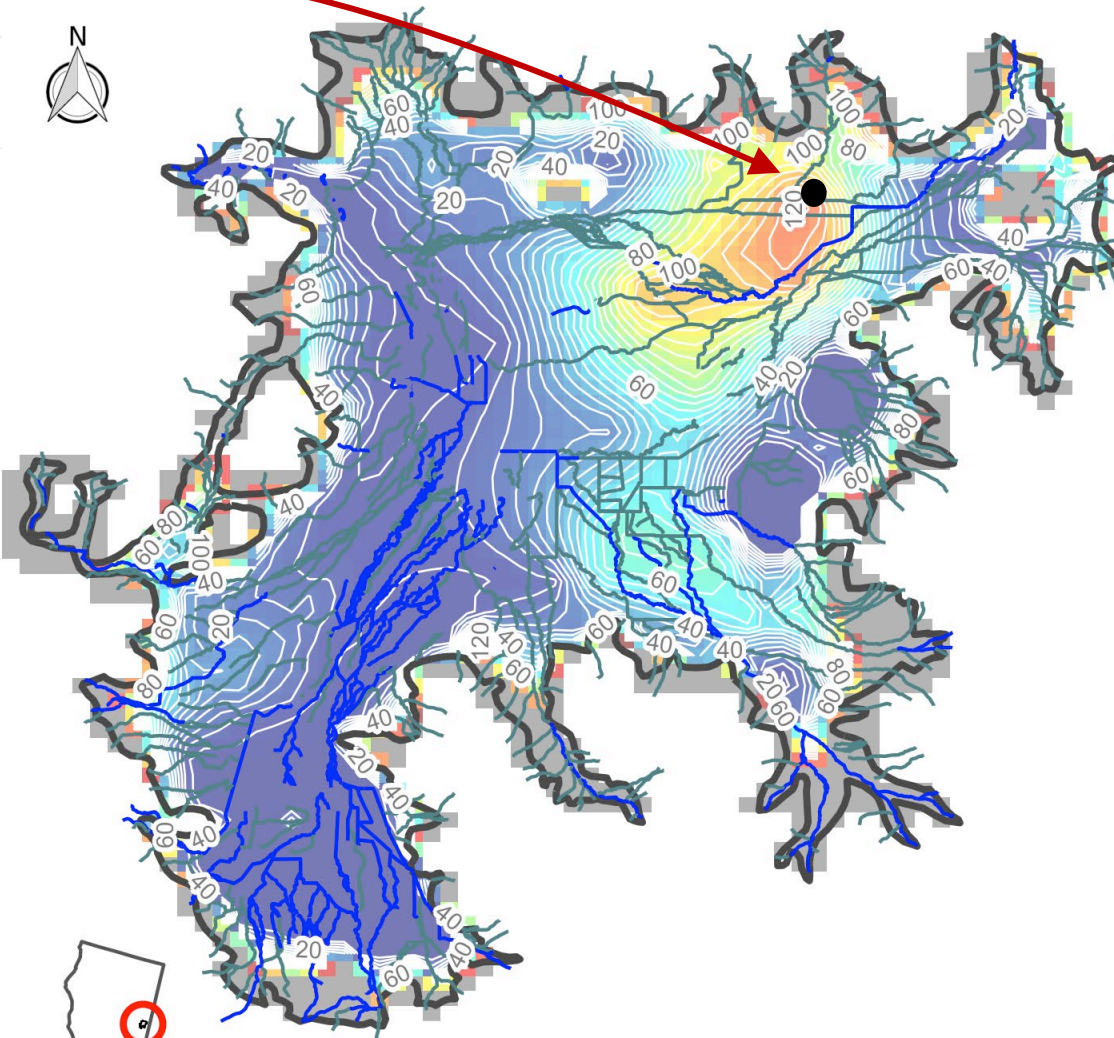
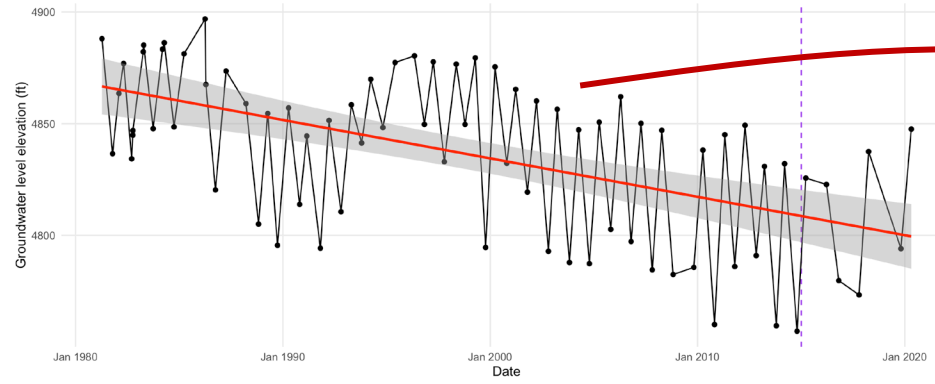
All data is available in the online Data Management System

Average fall groundwater depth below land surface, 2000-2019



Average fall groundwater depth below land surface, 2000-2019

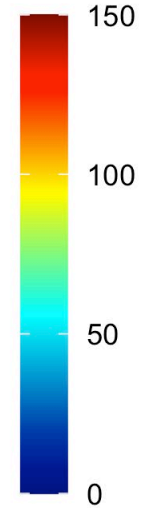
Well ID: 190 // Depth: 820 ft // Perforated interval: 477 - 801 ft



Stream/River type

- intermittent
- perennial

Groundwater depth below land surface(ft)

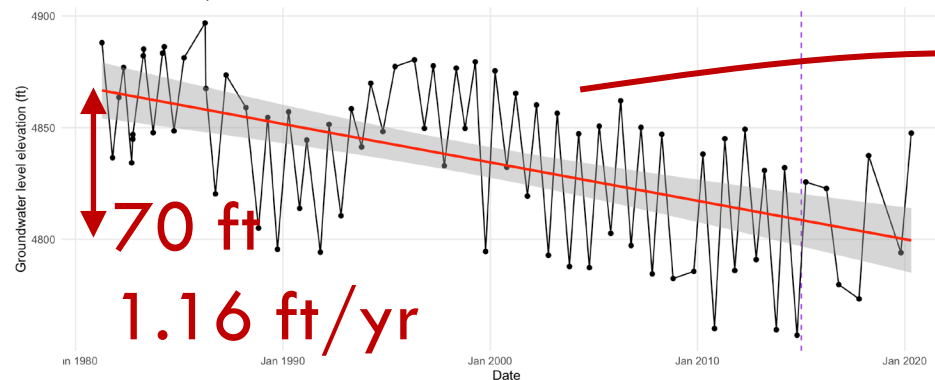


0 5 10mi

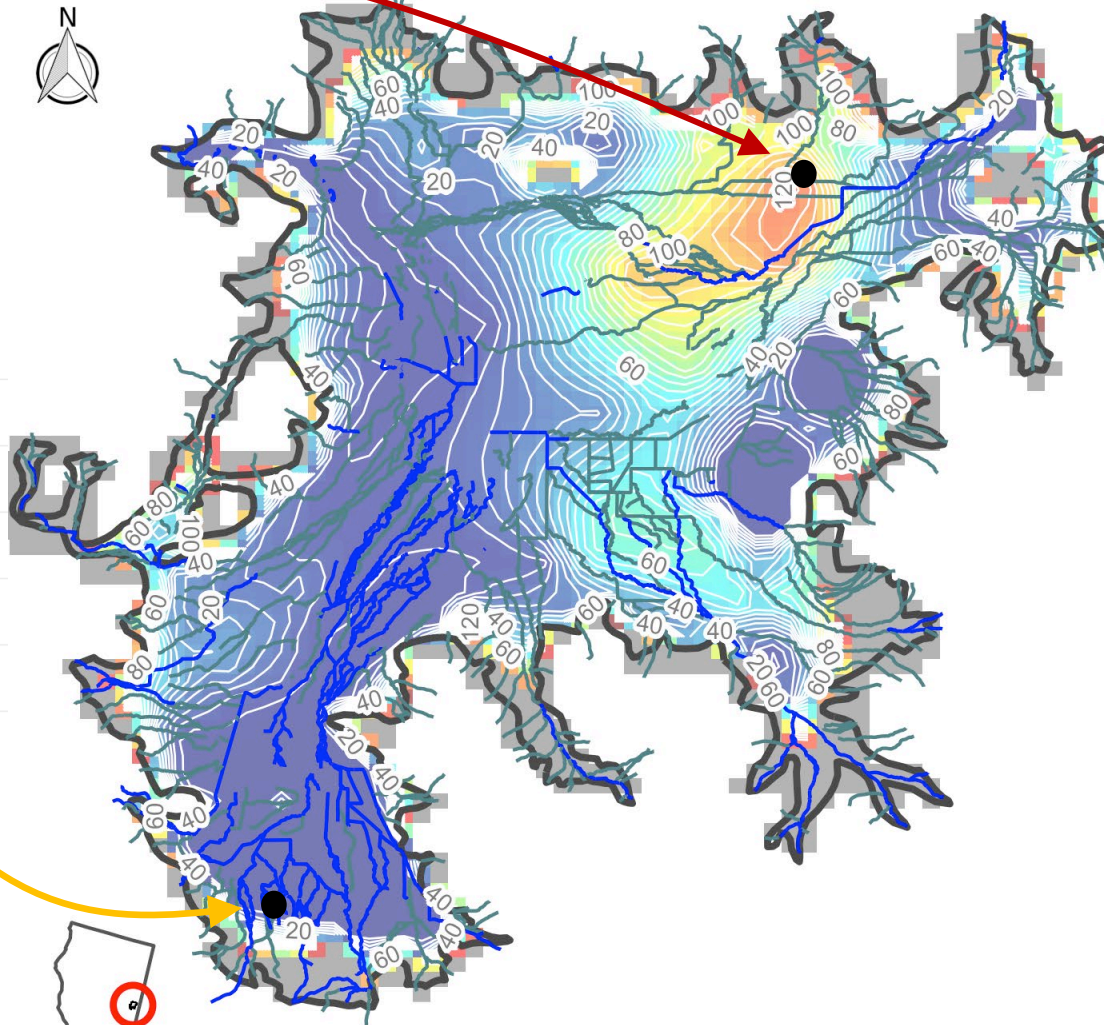
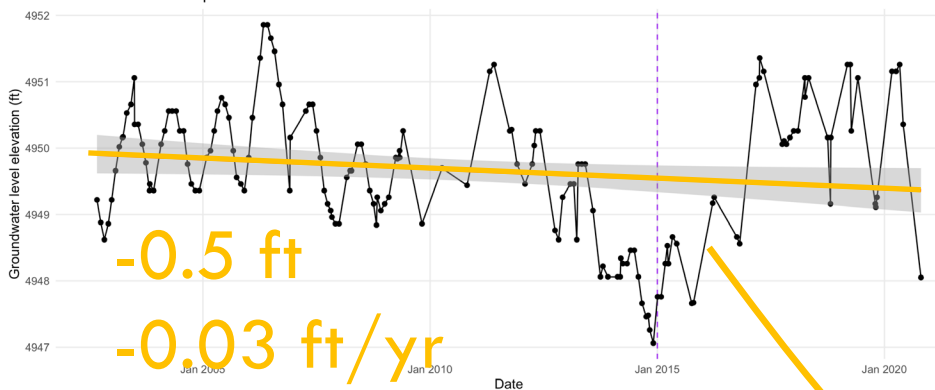


Average fall groundwater depth below land surface, 2000-2019

Well ID: 190 // Depth: 820 ft // Perforated interval: 477 - 801 ft



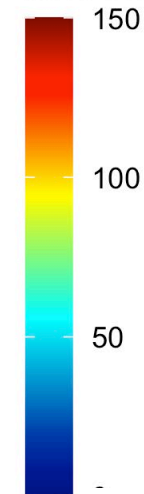
Well ID: 290 // Depth: 670 ft // Perforated interval: 220 - 250 ft



Stream/River type

- intermittent
- perennial

Groundwater depth below land surface(ft)

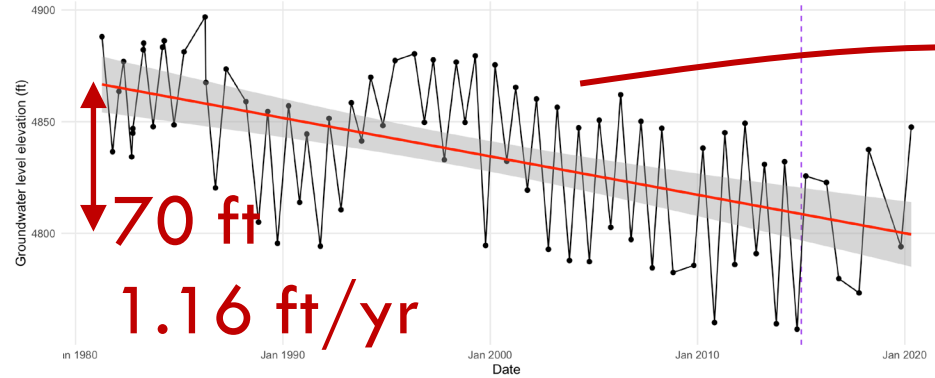


0 5 10mi

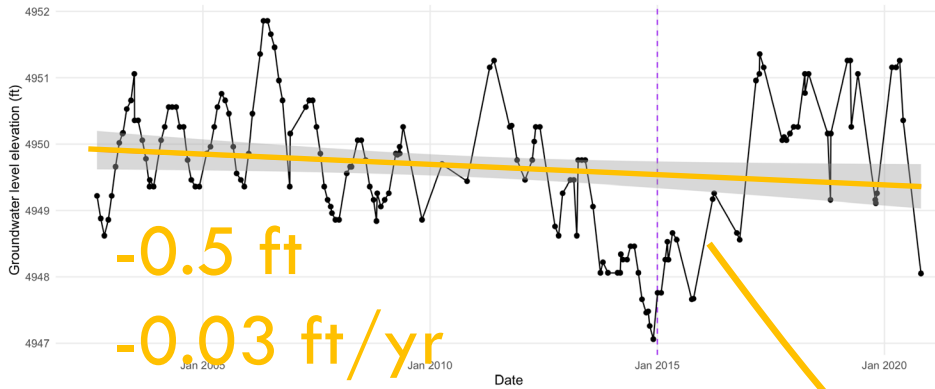


Average fall groundwater depth below land surface, 2000-2019

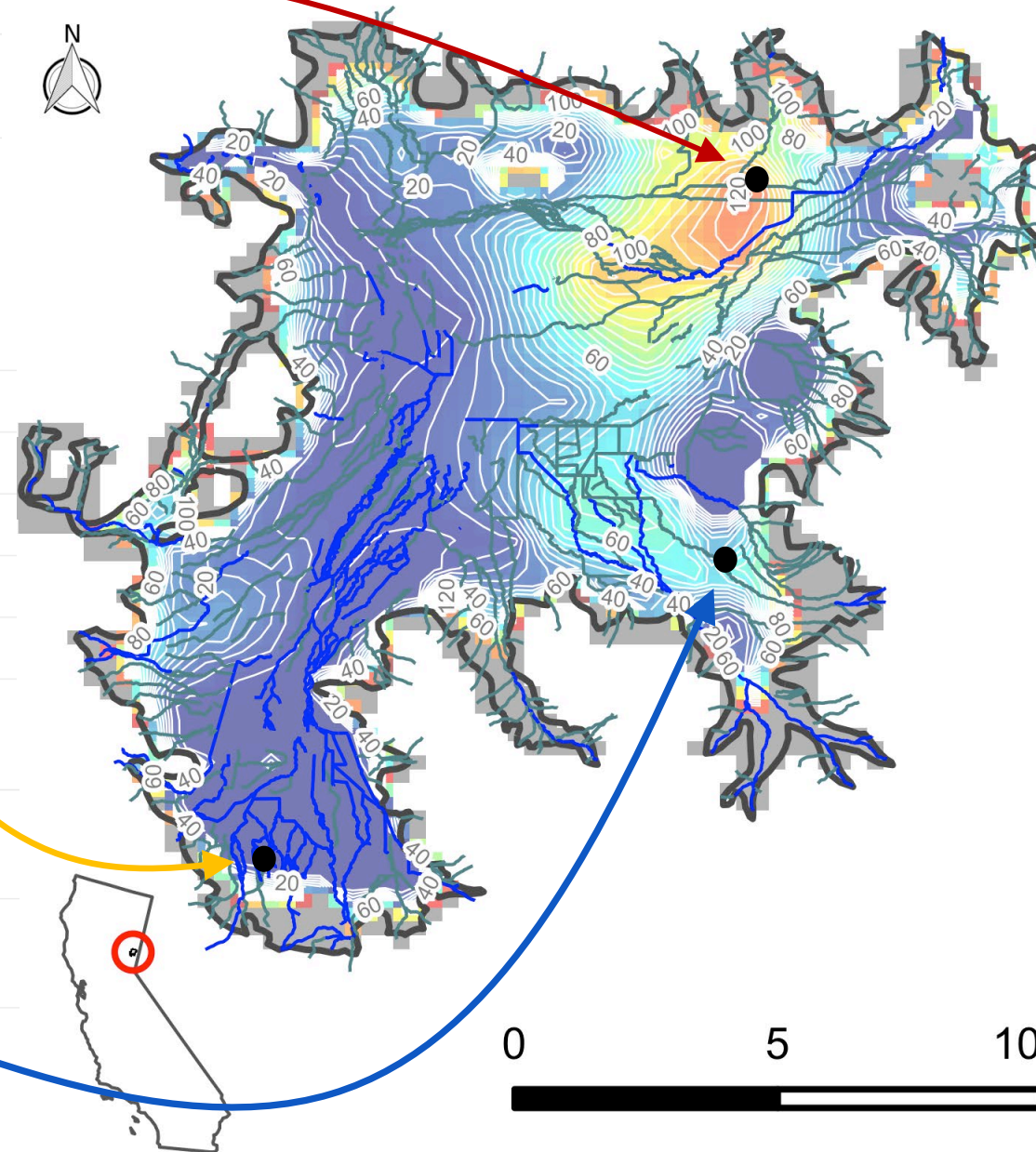
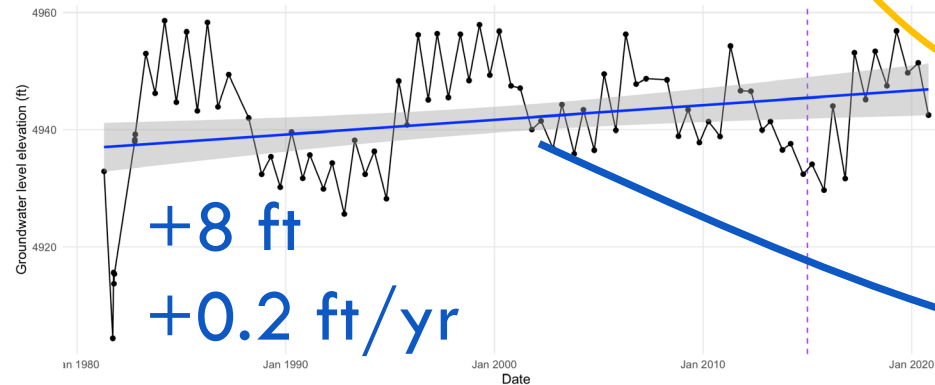
Well ID: 190 // Depth: 820 ft // Perforated interval: 477 - 801 ft



Well ID: 290 // Depth: 670 ft // Perforated interval: 220 - 250 ft



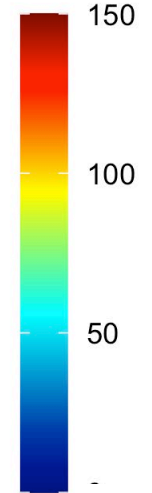
Well ID: 69 // Depth: 200 ft // Perforated interval: NA - NA ft



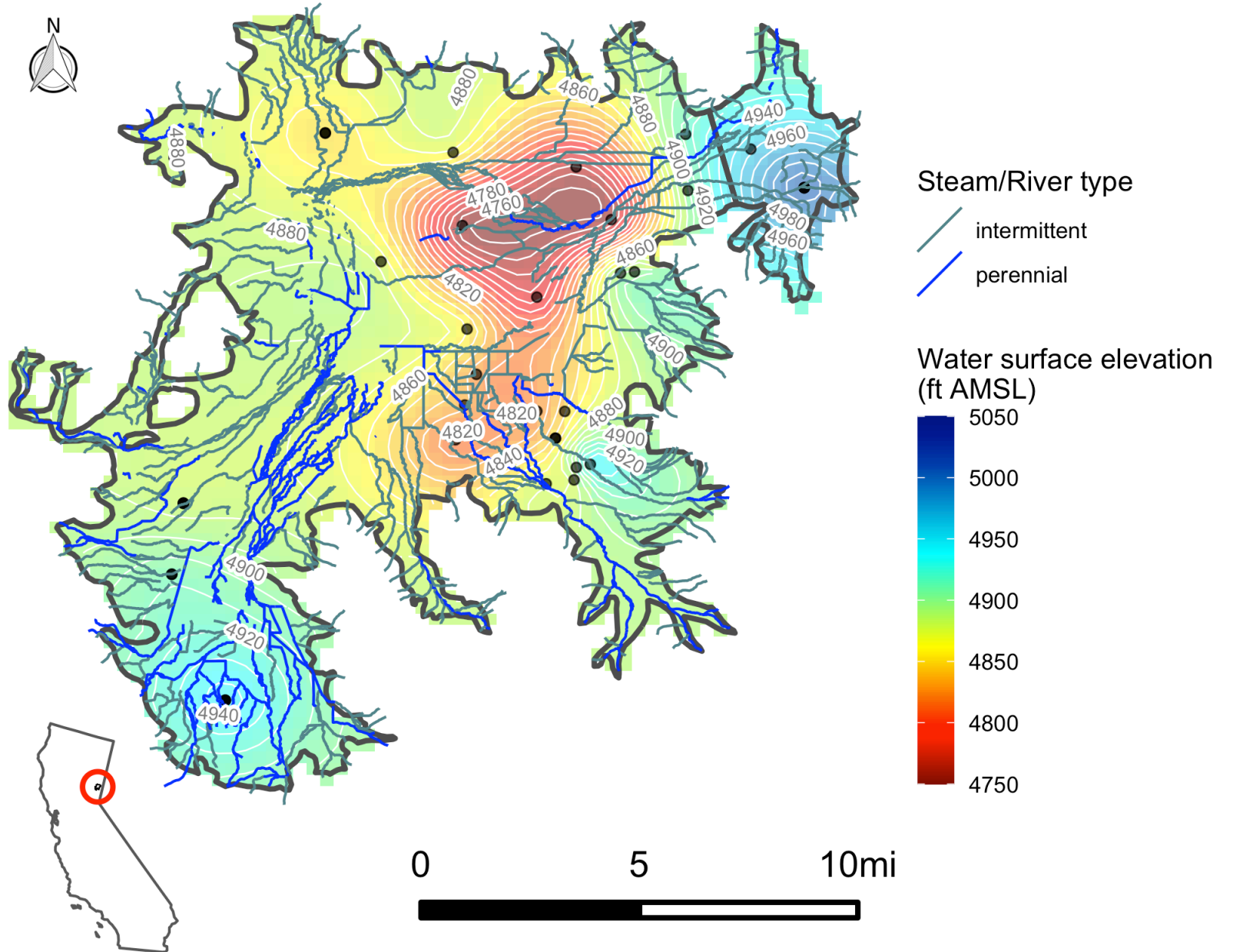
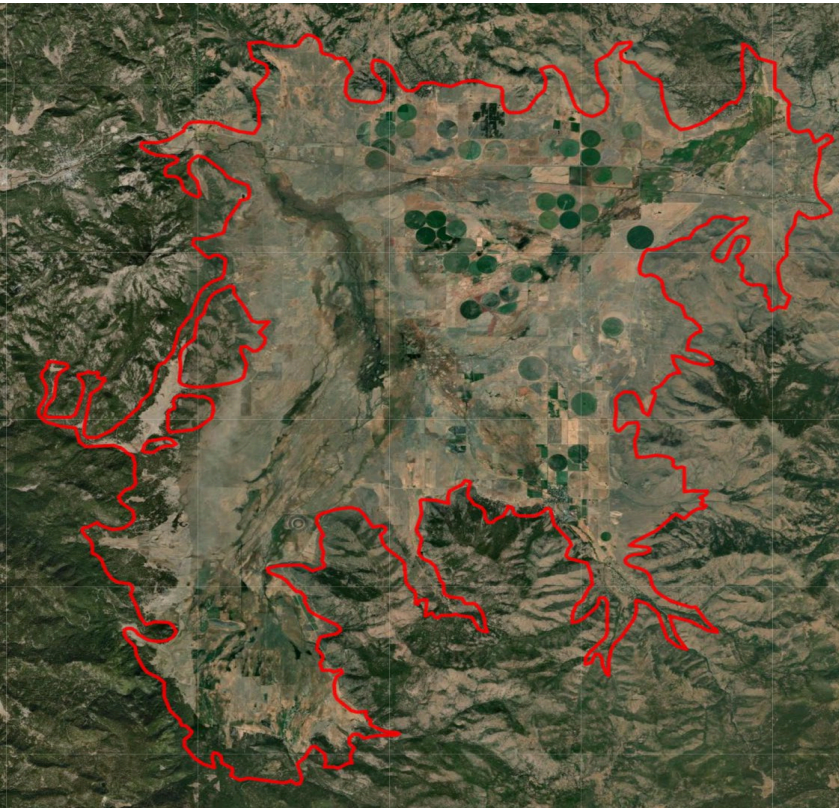
Stream/River type

- intermittent
- perennial

Groundwater depth below land surface(ft)



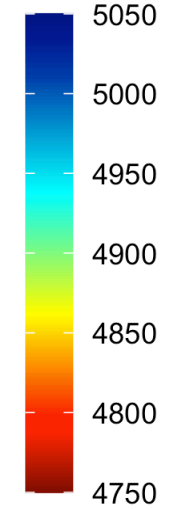
Average groundwater elevation, fall 2020



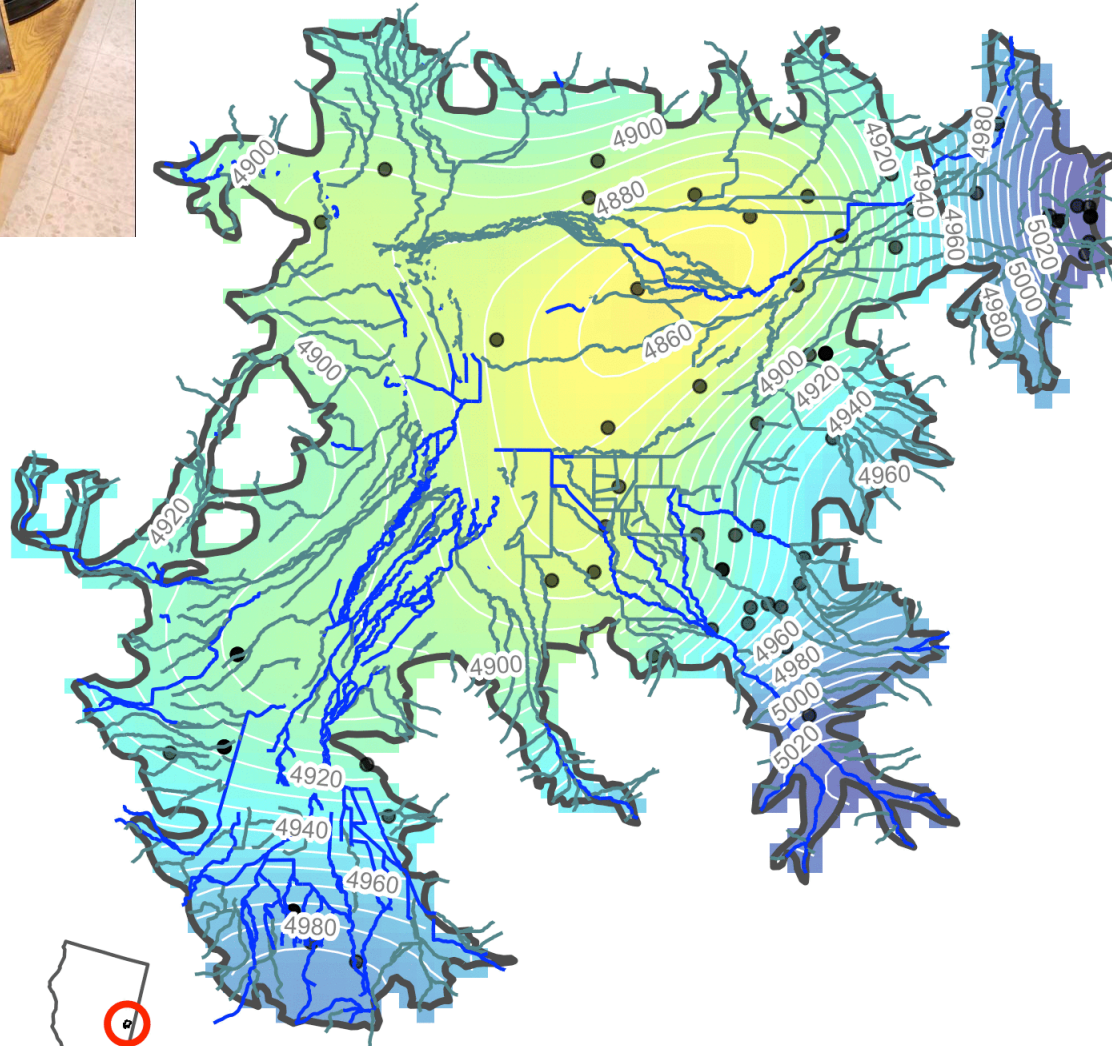
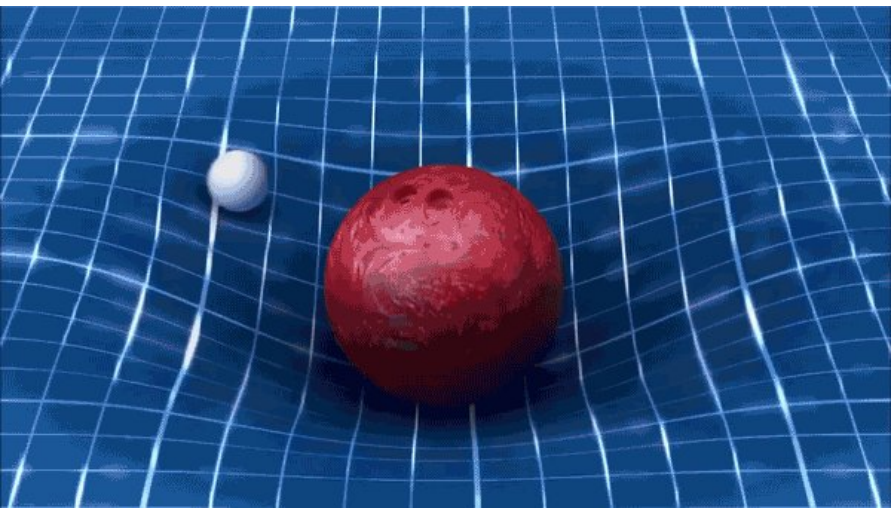
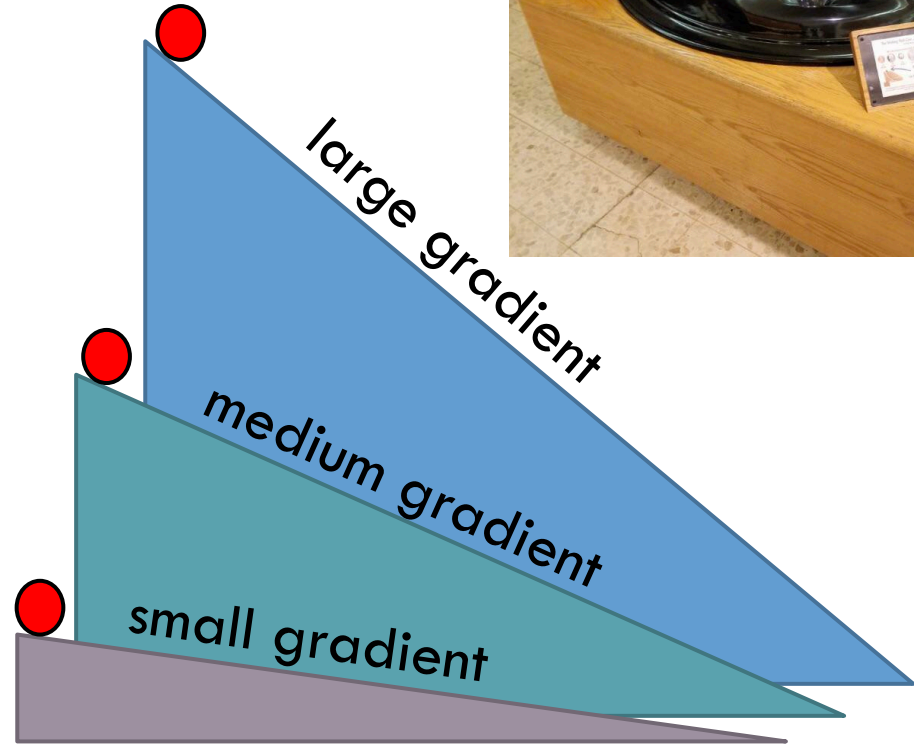
Stream/River type

- intermittent
- perennial

Water surface elevation (ft AMSL)



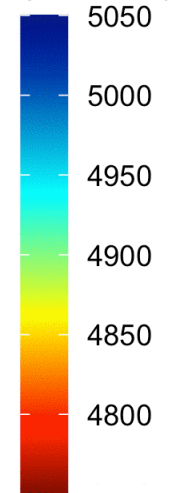
Average groundwater elevation, spring 2000 - 2003



Stream/River type

- intermittent
- perennial

Water surface elevation (ft AMSL)



0 5 10mi



Are you concerned about
long-term declining trends in groundwater level?
(please prepare 1-2 reasons to share if answering yes or no)

What **beneficial users/uses** of groundwater may be impacted by declining groundwater level?

