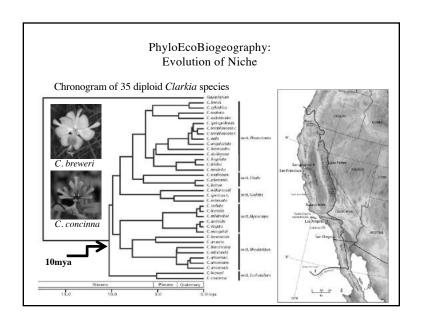


PhyloEcoBiogeography: Evolution of Niche • Climatic niche evolution in California Clarkia • Do related species share similar climatic/elevation niches? (niche conservatism) • Do related species show significant disparity in climatic/elevation niches? (adaptive radiation)





Mean annual temp Mean diurnal temp Annual precipitation Precipitation wettest month Isothermality Precipitation driest Temperature seasonality month Max temp warmest Precipitation month seasonality Min temp coldest Precipitation wettest Temp annual range Precipitation driest Mean temp wettest Precipitation warmest Mean temp driest Precipitation coldest quarter quarter Mean temp warmest Elevation

- Temperature and elevation variables show more disparity among close relatives in speciation - adaptive radiation
- Precipitation shows phylogenetic conservatism – close species are more similar in precipitation niche

