

Golconda Summit, 180. Above highway where trucks are, Cambrian Preble Frm (phyllitic shale) under Antler Peak Is, Penn-Perm reef Is--juxtaposed on Iron Point fault (thrust on old maps, LANF in Cashman et al). Edna Mtn (Permian ss) at very top of hill. Small hill at right has Iron Point Thrust again within it. To left of highway, peak with antennae is Golconda Summit, which is Penn shale+chert of upper plate of Golconda allochthon. Ledge 1/3 way up is Antler Peak Is with brown Edna Mtn Frm above. Most of gray slopes behind is greenstone unit (basalts-andesites of Penn age) of upper plate of Golconda.





Crafford notes lower plate pretty undeformed, but upper plate hammered—in places relatively undeformed Tr on top. Also discuss Nolan belt, which is defined by Crafford as having continental affinity but higher grade metamorphism and west-verging thrusting in pre-mid-Penn





Both of these are Golconda allocthon sections. Independence Mtns in NE Nevada











Note lots of volcaniclastics as well as plutonic rocks

















What is the relationship of the Golconda rocks to North America? Back to detrital zircons [which are only a small part of sediment volume]



Original interpretation in 2000 is that all the terranes were connected



Worth recalling how the use of the LA-ICPMS measurements changed the interpretation of Gehrels's group. Note the Lower Vinini still has more of a southern Laurentian look—except for those 500 Ma ages, which Linde et al. attribute to materials now found as inliers in Idaho batholith and Challis volcanics areas.















We need to start looking farther afield to see how to connect things up.





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Significance of Sonoman orogen: Seems to reflect the collapse of some marginal oceanic belt between Sierran-Klamath arc to west and Roberts Mtn stuff to east. But there seem to be issues at the early end of the spectrum...