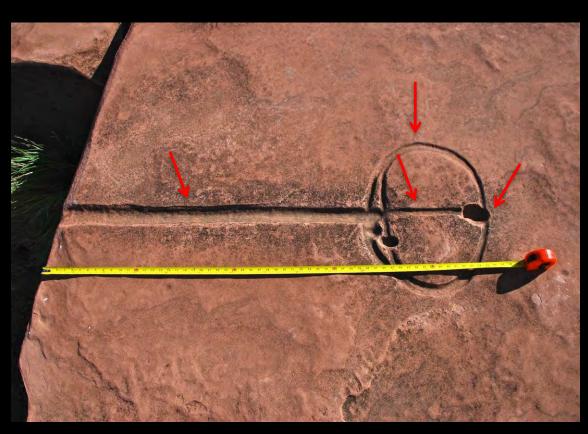


Cup & Channel Petroglyphs



- **b** Circular element
- **b** Linear element
- b 1 to 4 cupules
- **b** Horizontal surfaces
- b Prominent points above/ near perennial or seasonal water sources

b Ford et al. 2005
-Waterglyphs
-Navigational

Mejia 2001Astronomical



- b Ford et al. 2005 -Waterglyphs -Navigational
- Mejia 2001-Astronomical
- Malotki 2007-Tar burners

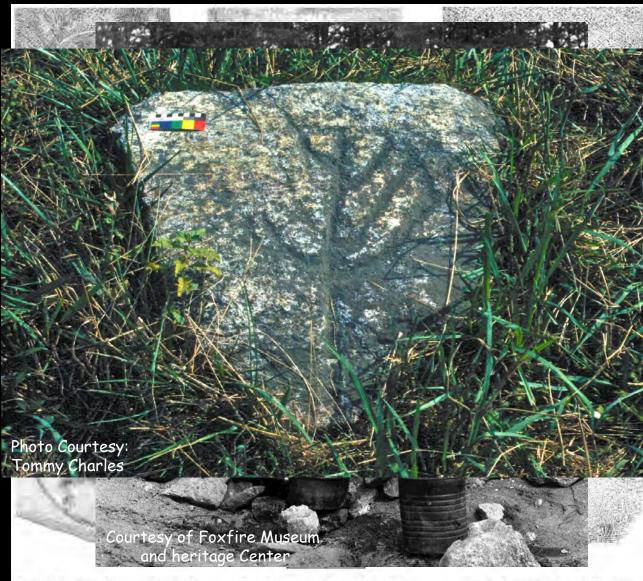


Fig. 4. Zucaina. Loma del Cañuelo.

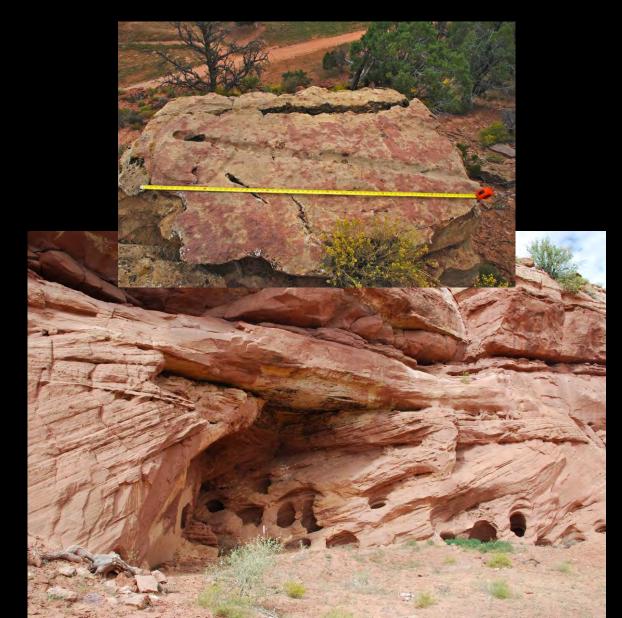
Fig. 5. Zucaina. Torre de la Casalta, plataforma I

Fig. 6. Zucaina. Mas de Montón, plataforma I

- b Ford et al. 2005 -Waterglyphs -Navigational
- Mejia 2001-Astronomical
- Malotki 2007-Tar burners
- Allen 2004-Sacrificial alters



- b Ford et al. 2005 -Waterglyphs -Navigational
- Mejia 2001-Astronomical
- Malotki 2007-Tar burners
- Allen 2004 -Sacrificial alters

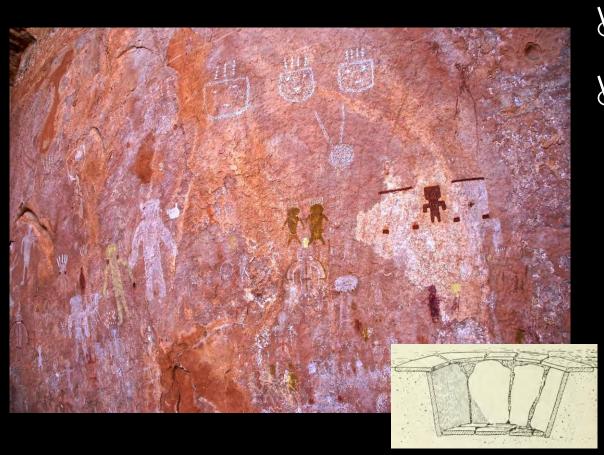


Cultural History



b Paleo and Archaic

Cultural History



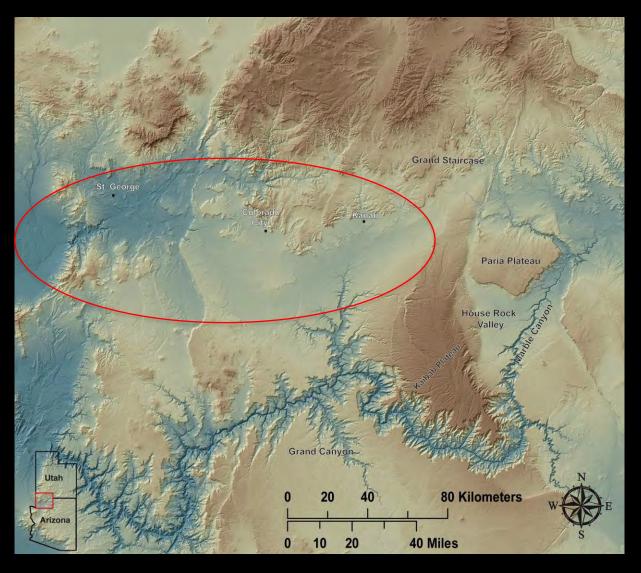
- b Paleo and Archaic
- Early Agricultural
 -1000 B.C.-A.D. 500

Cultural History



- **b** Paleo and Archaic
- b Early Agricultural -1000 B.C.-A.D. 500
- b Formative
 -BMIII A.D. 500-750
 -PI A.D. 750-950
 - -PII A.D. 950-1150
 - -PIII A.D. 1150-1300
- b Pueblo II
 -Kayenta intrusion

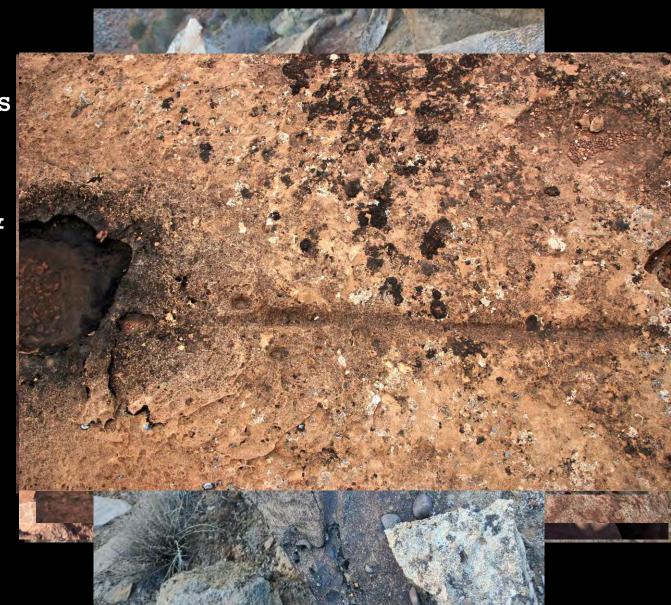
Distribution



- b Northwest Arizona
 Southwest Utah
 Eastern Nevada
- b Core area 150 km (93 mi) by 60 km (37 mi) with a few examples beyond

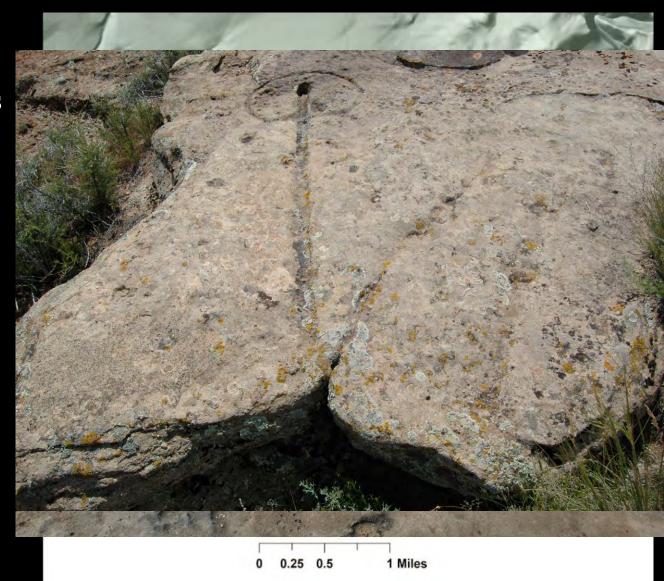
Stylistic Variation

- b Multiple cups, circles, and lines
- buse of natural cups, grooves, & basins
- b Similar depth and form



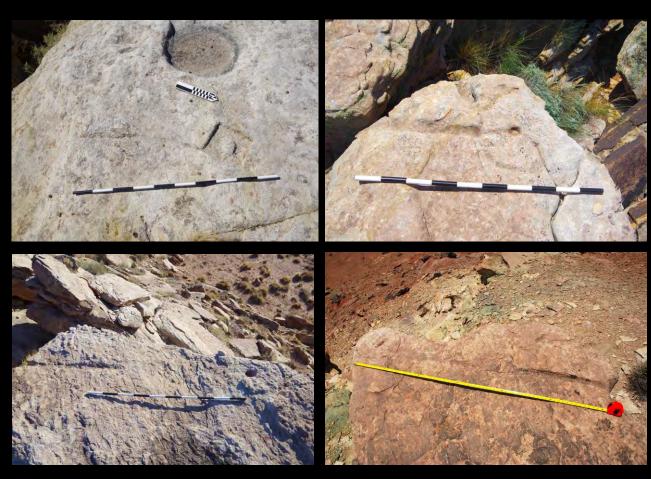
Stylistic Variation

- b Multiple cups, circles, and lines
- b Use of natural cups, grooves, & basins
- b Similar depth and form
- **b** Clusters



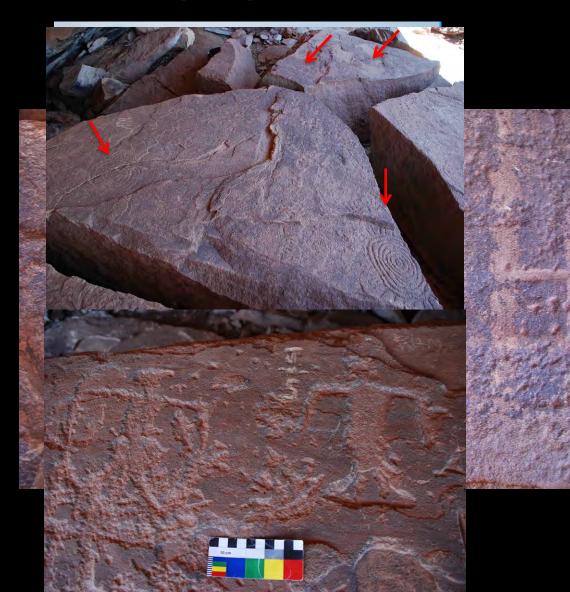
Stylistic Variation

- b Multiple cups, circles, and lines
- b Use of natural cups, grooves, & basins
- b Similar depth and form
- b Clusters
- b Little Colorado
 River Valley

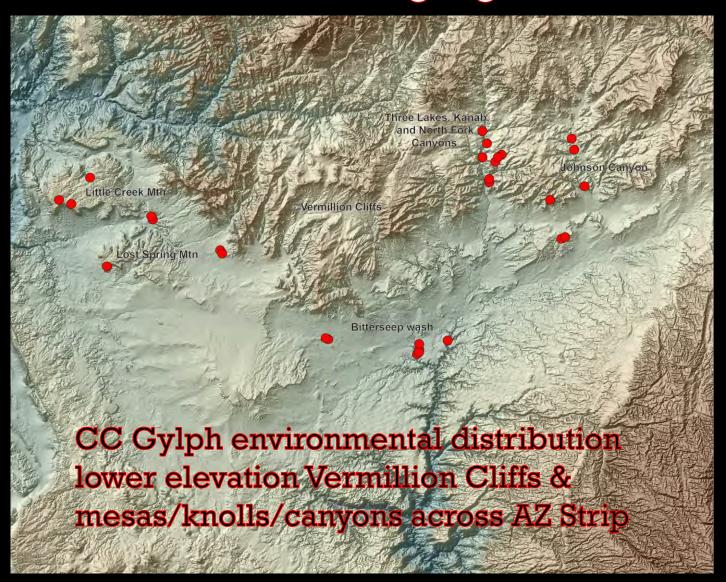


Measuring Age

- **b** No Absolute Dating
- b Lichen Growth
 -Caloplaca
 trachyphylla
 - -50 year life
- *Miniature" CC Glyph & associated rock art -Pueblo II (AD 950-1150) -BMII (1000 BC-AD 500)



Measuring Age



Measuring Age

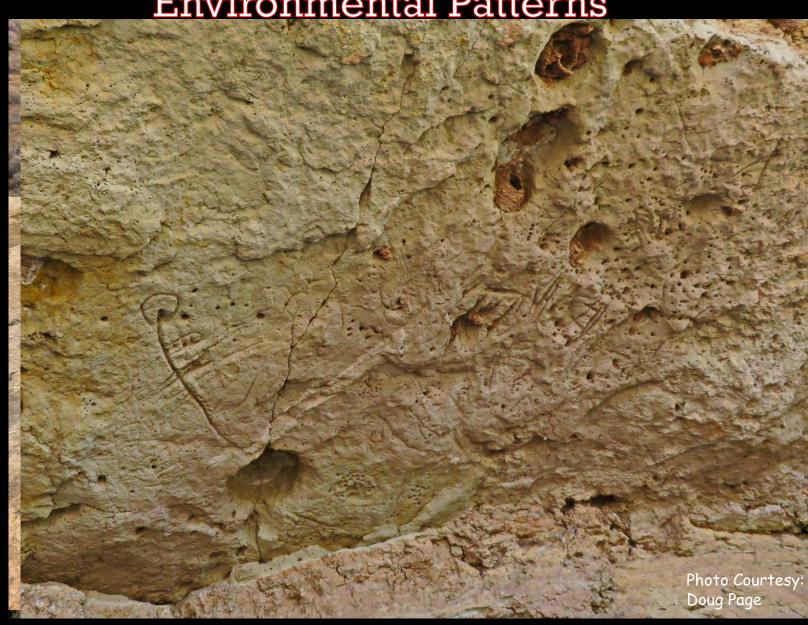


- Vertical surface=High visibilityWider audience
- b Horizontal surface=
 Low visibility
 Smaller audience





b Crevice b Basin



b Crevice

b Basin

b Ledge



Ethnographic Data

b Cupules -Fertility -Zuni



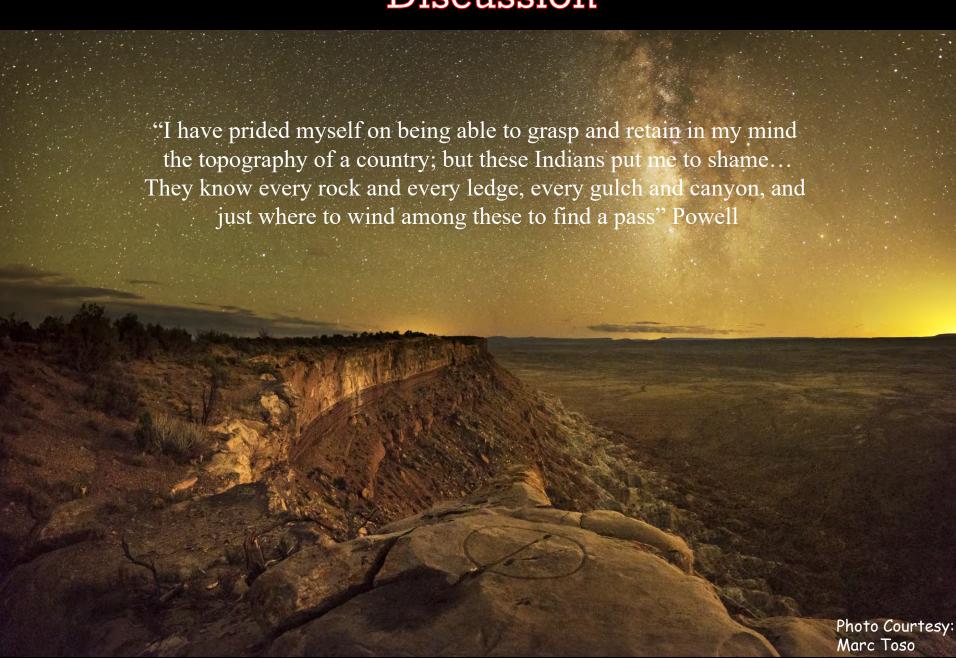
Ethnographic Data

- **b** Cupules
 - -Fertility
 - -Zuni
- **b** Cupules
 - -Rain Making

"Rain, or rather an aspect of rain, is the source of life & creation and thus a prayer for rain is above all a prayer for the creation of the world." Loftin

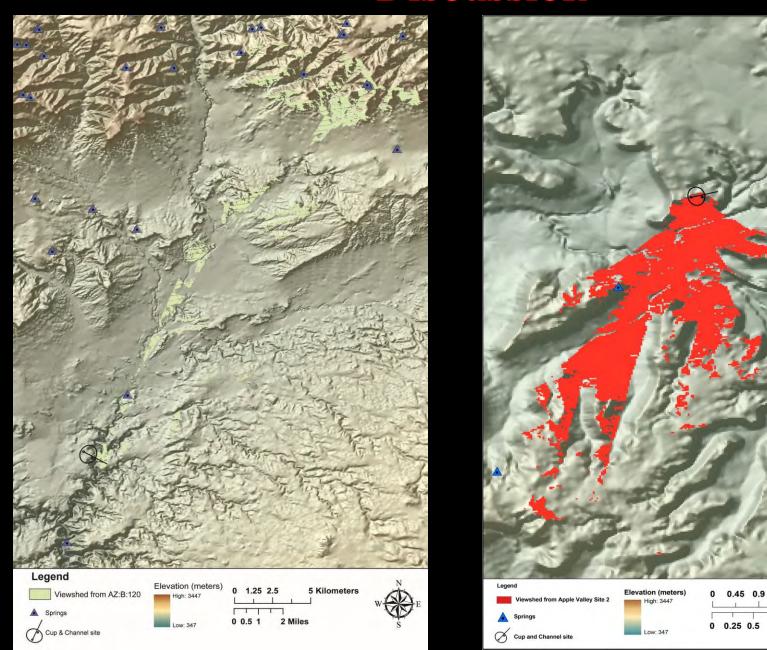
Ethnographic Data

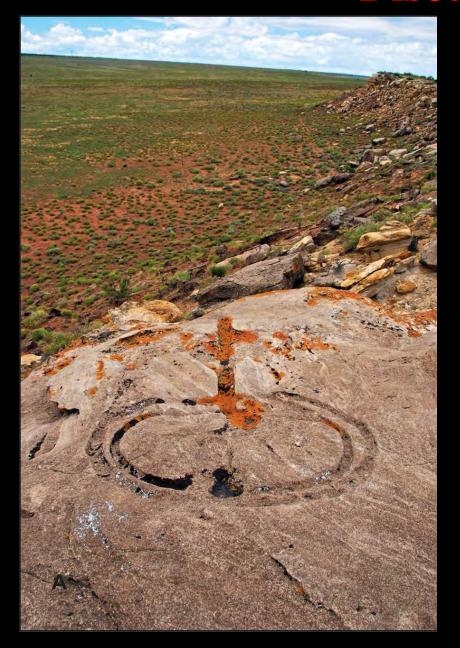


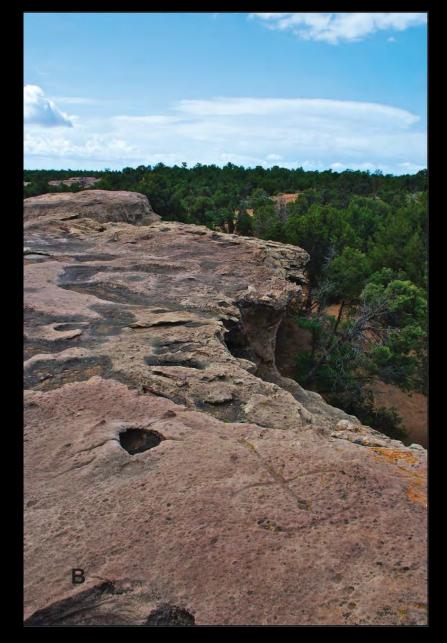


1.8 Kilometers

1 Miles

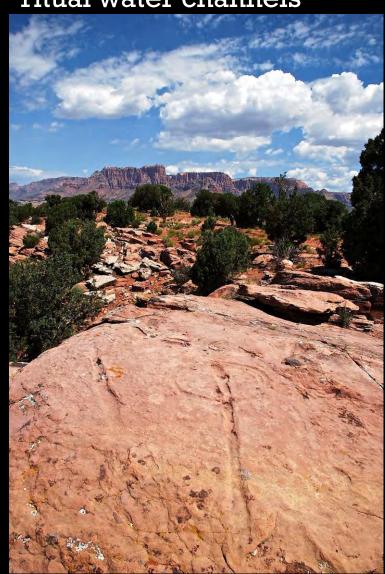








b Function = Water shines/ritual water channels





- b Function = Water shines/ritual water channels
- b Variation and clustering = Family Units and Community Ceremonial procession

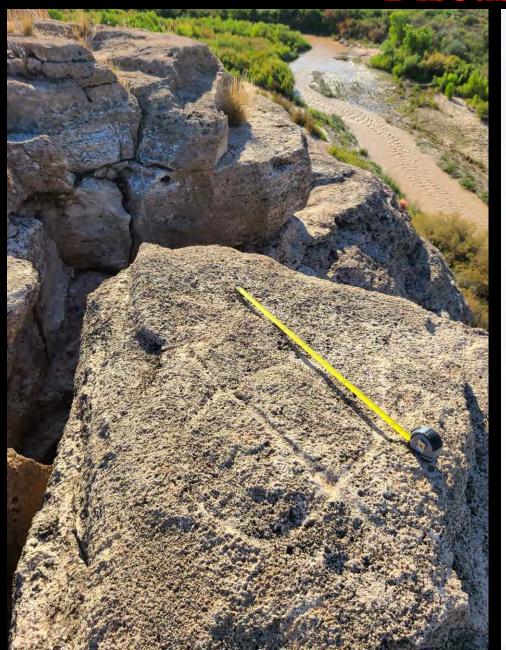


- b Function = Water shines/ritual water channels
- b Variation and clustering = Family Units and Community Ceremonial procession
- b Physical function may change through time becoming a symbol of the people











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