

ES 10 April 16 and 20, 2001

J. Bartolome

Topic: Human impacts on Californian grasslands

- 1) General nature and extent of grassland
- 2) Serpentine soils and vernal pools
- 3) Destruction of the California prairie (grazing, cultivation)

References:

Bartolome, J.W., S.E. Klukkert, and W.J. Barry. 1986. Opal phytoliths as evidence for displacement of native Californian grassland. *Madrono* 33:217-222.

Bartolome, J.W. and M.P. McClaran. 1992. Composition and productivity of California oak savanna seasonally grazed by sheep. *Journal of Range Management* 45:103-107.

Bentley J.R. and M.W. Talbot 1951. Efficient use of annual plants on cattle ranges in the California foothills. USDA Circ. 870. 52p.

Edwards, S.W. 199. A Rancholabrean-age, latest pleistocene bestiary for California botanists *The Four Seasons* 10(2):5-34.

Hatch, D.A., J. W. Bartolome, Jeffrey S. Fehmi, and Deborah S. Hillyard. 1999. Effects of burning and grazing on a coastal Californian grassland. *Restoration Ecology* 7: 376-381.

Heady, H.F., J.W. Bartolome, M.D. Pitt, M.G. Stroud, and G.D. Savelle. 1991. California prairie. In: R.T. Coupland (ed.) *Natural grasslands, Ecosystems of the World*, Vol. 8A. Elsevier Sci. Pub. Co., Amsterdam. pp. 313-335.

Huntsinger, L.H., M.P. McClaran, A. Dennis, and J.W. Bartolome. 1996. Defoliation response and growth of Nassella pulchra (A. Hitchc.) Barkworth from serpentine and non-serpentine populations. *Madrono* 43: 46-57.

Stromberg, M.R. and J.R. Griffin. 1996. Long-term patterns in coastal California grasslands in relation to cultivation, gophers, and grazing. *Ecological Applications* 6:1189-1211.

Species names

<i>Aegilops triuncialis</i>	barbed goat-grass
<i>Avena fatua</i>	wild oats
<i>Calochortus tiburonensis</i>	Mariposa lily
<i>Centaurea solstitialis</i>	yellow star thistle
<i>Cynara cardunculus</i>	artichoke thistle
<i>Erodium botrys</i>	filaree
<i>Koeleria macrantha</i>	June grass
<i>Lepidium nitidum</i>	peppergrass
<i>Nassella pulchra</i>	purple needle grass
<i>Neostapfia colusana</i>	
<i>Phalaris aquatica</i>	Harding grass
<i>Quercus agrifolia</i>	coast live oak
<i>Quercus douglasii</i>	blue oak
<i>Quercus suber</i>	cork oak
<i>Salvia leucophylla</i>	sage
<i>Taeniatherum caput-medusae</i>	medusa head
<i>Tuctoria mucronata</i>	
<i>Vulpia myuros</i>	fox tail fescue