Archaeological Investigations at Molpa, San Diego County, California

By

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In north-central San Diego County the Peninsular In north-central and the Agua Tibia Mountains Range Province is dominated by the Agua Tibia Mountains. Range Province is dominated and places of more than 6,000 This range, with elevations in places of more than 6,000 This range, with the platform supporting feet, is best known perhaps as the platform supporting the 200-inch Hale telescope on Palomar Mountain, the mountain itself forming the southernmost anchor of the mountain itself and it the Agua Tibias (see map 1). Physiographically and structurally this range consists of an uplifted series of granitic batholiths. It appears to be a horst und graben type feature with the southwestern face delineated by the main Elsinore fault zone and the northeastern scarp marked by what is probably a branch of the same system (for references supporting these data see Larsen 1948, 1951; Mann 1955; Ellis and Lee 1919).

Along the southwestern flank of Palomar Mountain at an elevation of about 2,800 feet, the scarp is broken by a series of flats that mark the location of the Elsinore fault zone. At this point, the fault trends southeast to northwest from the Valle de Jose region (presently occupied by Lake Henshaw) toward the town of Pala near the northwestern end of the main Agua Tibia range.

This particular structural configuration is of concern here because many of the prehistoric settlements in the area are concentrated on the flats marking the fault zone (see pl. 1). Springs usually associated with a faulted topography provide water sources for several of these settlements including that of Molpa.

Vegetation on the flats differs somewhat from that of the adjacent terrain and is essentially oak parkland (savannah). Because of the differences in elevation, exposure, and parent rock, the terrain adjacent to the oak parkland regions supports a wide variety of vegetation. The steeper mountain sides and canyons along the southwestern boundary of the fault zone support a typical southern California chaparral. The flanks of Palomar Mountain above the flats support chaparral on the lower slopes and mixed broadleaf coniferous forests higher on the mountain. Small flats or benches on the mountain flanks are marked by oak groves. The canyons themselves contain gallery forest, oak groves and some

conifers as low as 3,000 feet elevation in favored locations.

Relatively high orographic precipitation along the southwestern rim of the mountain proper (up to 50 inches per year) supports a dense and quite lush mixed broadleaf and coniferous forest environment at an elevation of some 5,000 feet. This contrasts with rainfall in the lower elevations of less than 15 inches per year.

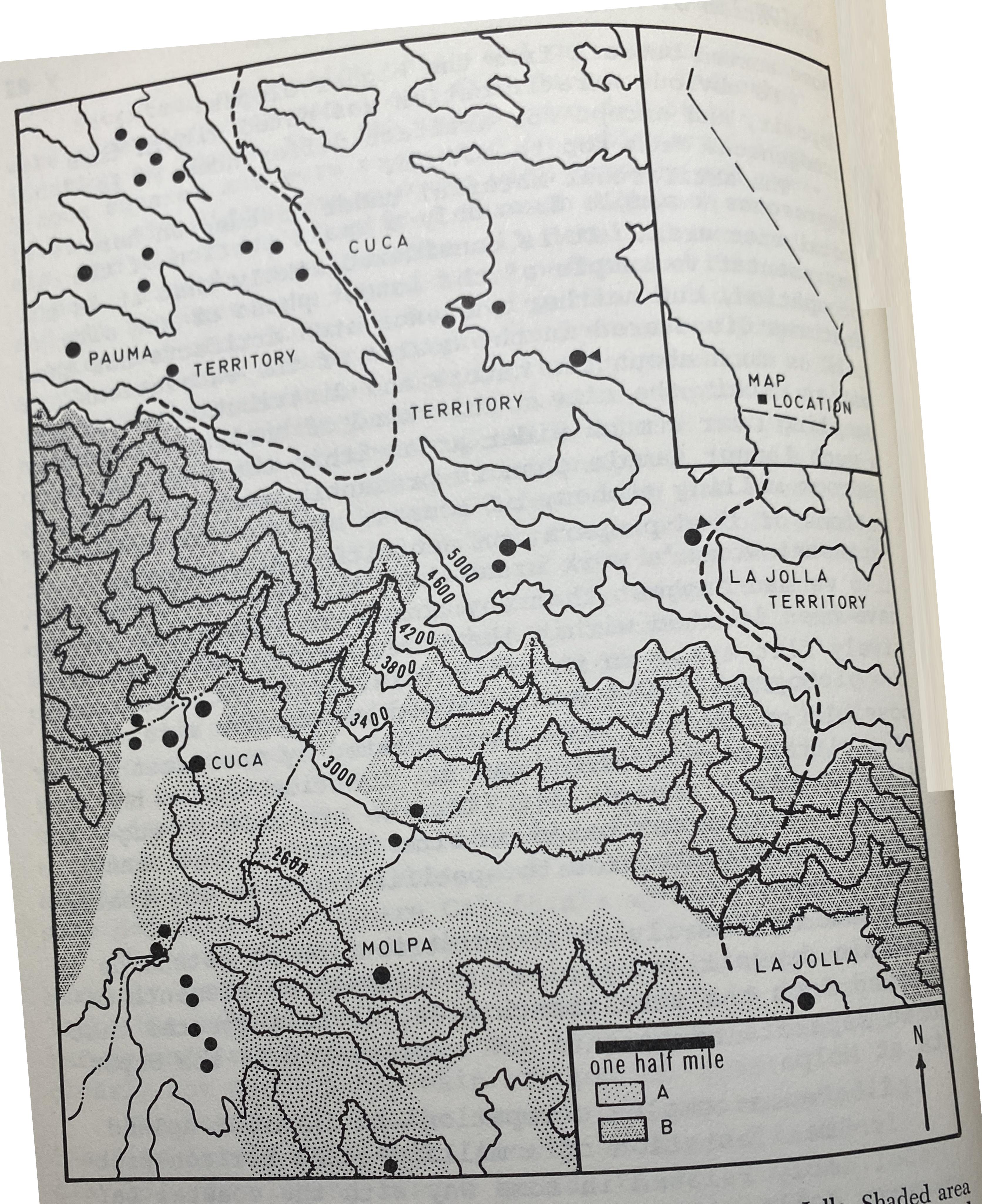
The wide range of vegetation extending through several environmental zones plus localized environmental conditions provided a broad and generally rich subsistence base for the prehistoric inhabitants of the area. Table 1 lists some of the more common plants found in this region. A substantial portion of this inventory contributed in one way or another to the aboriginal subsistence.

This vegetation, in addition to its direct contribution to aboriginal subsistence, also supported assorted fauna which in turn were exploited by the Indian inhabitants. Except for localized adjustments in response to short term wet and dry cycles there is no evidence that conditions here have altered much over the past 500 to 800 years.

## THE SITE

Molpa (SDi-308) is located within the Boucher Hill Quadrangle (USGS 7 1/2 minutes series) at an elevation of 2,500 feet in northern San Diego County, California (see maps 1 and 2; pl. 1).

The settlement covered portions of two low knolls along the edge of a low ridge, overlooking an open grassland area formed in part by fault controlled slumping. A small but reliable spring is located at the base of the slope below the site. The site is marked by conspicuous granitic bedrock exposures. The entire area seems to be covered with a well-developed midden although there is considerable variation in the depth of the deposit. The midden covers some 40,000 square yards; some if it may represent outwash from the higher slopes (see pls. 2 and 3 for views on the site proper).



Map 2. The site of Molpa in relation to the villages of Cuca and La Jolla. Shaded area A indicates the general boundaries of the oak parkland (savannah) vegetation. Shaded area B represents the approximate boundaries of the steep hillside and canyon chaparal communities. The unshaded territory above 4,600 foot elevation represents mixed broadleaf and coniferous forest. The heavy dashed lines mark the approximate boundaries of the Cuca/Molpa territory on the mountain. Archaeological sites are indicated by black circles. Important summer camps belonging to the villages of Cuca and Molpa are further marked with a black triangle.

## TABLE 1

## Common Plants Found in the Territory Common Plants Found in the Territory Common Plants Found in the Territory See Molpa and Cuca (See map 1)

Chaparral — exposed slopes and hillsides: Only the more common genera are listed. The composition of this community varies from locale to locale.

	Luiseño name	Use (where known)
Plant		tools, gum
Adenostoma fasiculatum	ouou t	
Eriogonum fasciculatum	wulaqla	medicine
Quercus dumosa	pa wis	food, medicine
Quercus chrysolepis	wipat	food and games
Garrya flavescens	not known	not stated
Ceanothus leucodermis	ouou sawat	not stated
Arctostaphylos species	ko lul	food
Zylococcus bicolor	not known	food (?)

Canyons and areas marginal to heavy stands of chaparral:
Often better watered and have more favorable soils than
the slopes above. Includes small flats and benches
adjacent to streams.

Quercus agrifolia	Wipa sal	food
Quercus wislizeni	not known	food
Quercus engelmanni		
Photinia arbutifolia	to vasal	food and gum
Prunas ilicifolia	?a cawut	food
	Ca mis	food

(14)

Plant	Luiseño name	Use
Rhus laurina	naqwut	(where known)
Rhus ovata	pa naqwut	food (?)
Rhus trilobata		food (drinks)
RIIGS		baskets, food, religion, medicine
Rhus integrifolia	not known	food (drinks)
Rhus diversiloba	piya 1	poison oak (use?)
Turricola parryi	ato vaykat	medicine, pottery
Salvia apiana	qa sil	food, medicine, religion
Salvia munzii		
(mellifera)	qa navut	food (?)
Salvia carduacea	pa lit	food, medicine
Salvia columbariae	pa sal	food, medicine
Sambucus coerulea	ku tpat	tools, medicine, food, religion
Artemisia dracunucula	wa cis	medicine
Lupinus longifolius	not known	food (?)
Pickeringia montana	not known	food (?)
Lotus scoparius	ki wat	?
Solanum xanti (species?)	takavsis	dye, medicine, possible food

Plant	Luiseño name	Use /
Datura meteloides	nagtumus	(Where known) relia:
Mimulus species	not known	religion ?
Penstemon anterrhinoides	sexla and pi mal	?
Baccharis douglasii (?)	morwaxpis	tools, medicine
Ephedra species (Californica)	not known	drink, medicine (?)
Epicampes rigens	yulalas	basket foundation
Echinocystis		Louidation
macrocarpa	oenwis	medicine, games paint base
Yucca whipplei	pana 1	food
Yucca mohavensis	hunu vat	food, fiber
Opuntia species	na vut	food, tools
Gallery forest: Wet locations along streams considerable overlap with species listed above.		

able overlap with species listed above.

Populus fremontii		
(cottonwood)	pata xat	?
Salix species	wat Saxa naxat	?
Salix lasiolepsis	saxat	tools
Quercus species (Sycamore)	sive la	?
	(76)	

Plant	Luiseño name	Use (Where ke
sambucus species	not known	(where known)
Rosa californica	pusla	food, etc.  medicine, gum, religion
Rhus diversiloba	Piya 1	poison oak (use?)
Rubus vitifolius	Pikwla	food, dye (?)
Vitis girdiana	makwit	food
Urtica gracilis	sakisla	religion, fiber medicine
Scirpus microcarpus	pacxayal	tools, religion, basket-making, mats, food?
Juncus acutus	soyla	basket-making, mats, food?
Montia perfoliata	not known	food
Mountain regions: Loca usually near 5,000 in t		oot elevation
Pinus species	pawxit	
Pinus coulteri	wixenivisla	
Librocedrus decurrens	tuvot	shelter(?)
Pseudotsuga macrocarpa	yuyla	?
Abies concolor	pupu mal	?
Quercus kellogii	kwi la	food
Quercus chrysolepis	wipat	food

(17)

TABLE 1 (continued)		Use 1-nown)
	Luiseño name	(where known) food
Plant Quercus englemanni	to vasal	IOO
	antut	food
(demissa)	not known	food(?)
Berberis pinnata	not known	food
Ribes nevadense	wusocis	food
Ribes speciosum  Rosa woodsii	not known	?
Rhamnus crocea	not known	food(?)
Rhamnus californica	not known	medicine(?)
Rhamnus purshiana (buckthorn)	not known	medicine
Other plants from the g	eneral locality.	
Brodiaea pulchella	to kapis	food, religion
Chenopodium californicum	qaxa wut	food, soap
Asclepias eriocarpa	tokmat	fiber, gum
Trifolium gracilentum	queoquis	food
Bloomeria species	qawicxal	food, religion
Euphrobia polycarpa	qenxamal	medicine
Anemopsis californica	cevnis	medicine
	(18)	

Plant	Luiseno name	(where known)
Psoralea macrostachya		fiber, medicine, dye, religion, thatching
croton californicus var.	supi kawut	medicine
Centaurium venustum	zasoskit	medicine
Cucurbita foetidissima	ne xis	soap

This list is not intended to be complete and there are hundreds more species of plants within the area. It does indicate the range of material, and the nature of the plant utilization by the Luiseno. The Luiseno names and uses of these plants were provided by Max Peters, Herman Calac, and Henry Rodriquez. The Luiseno terminology was checked and corrected by William Bright, Department of Anthropology, University of California, Los Angeles.