

REGIONAL DEVELOPMENT AND INTERACTION IN SOUTH-EAST SPAIN (6000-1000 b.c.)

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Submitted for the Degree of Doctor of Philosophy in the Department of
Archaeology and Prehistory, Sheffield University.

July 1986

(2 Volumes)

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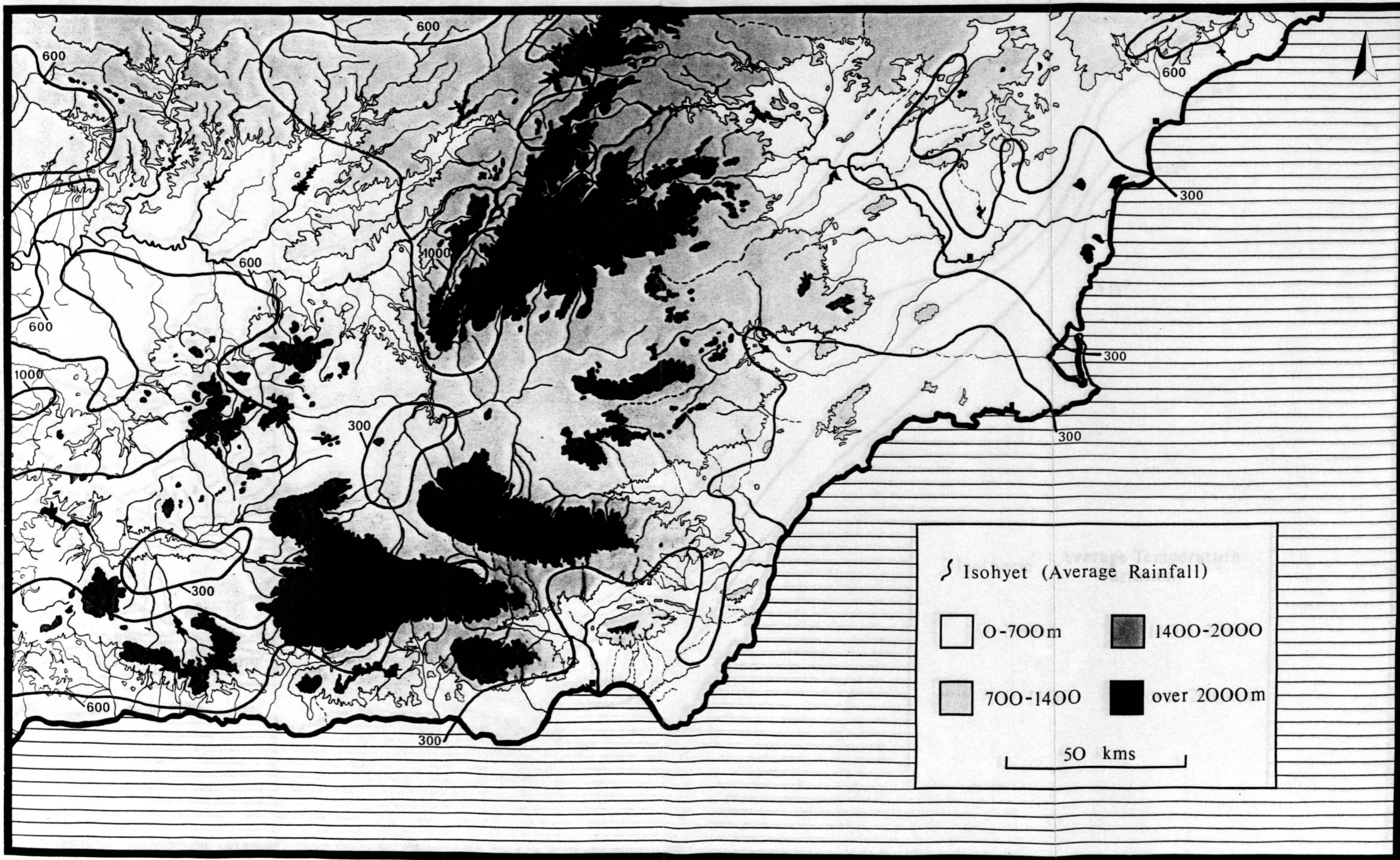
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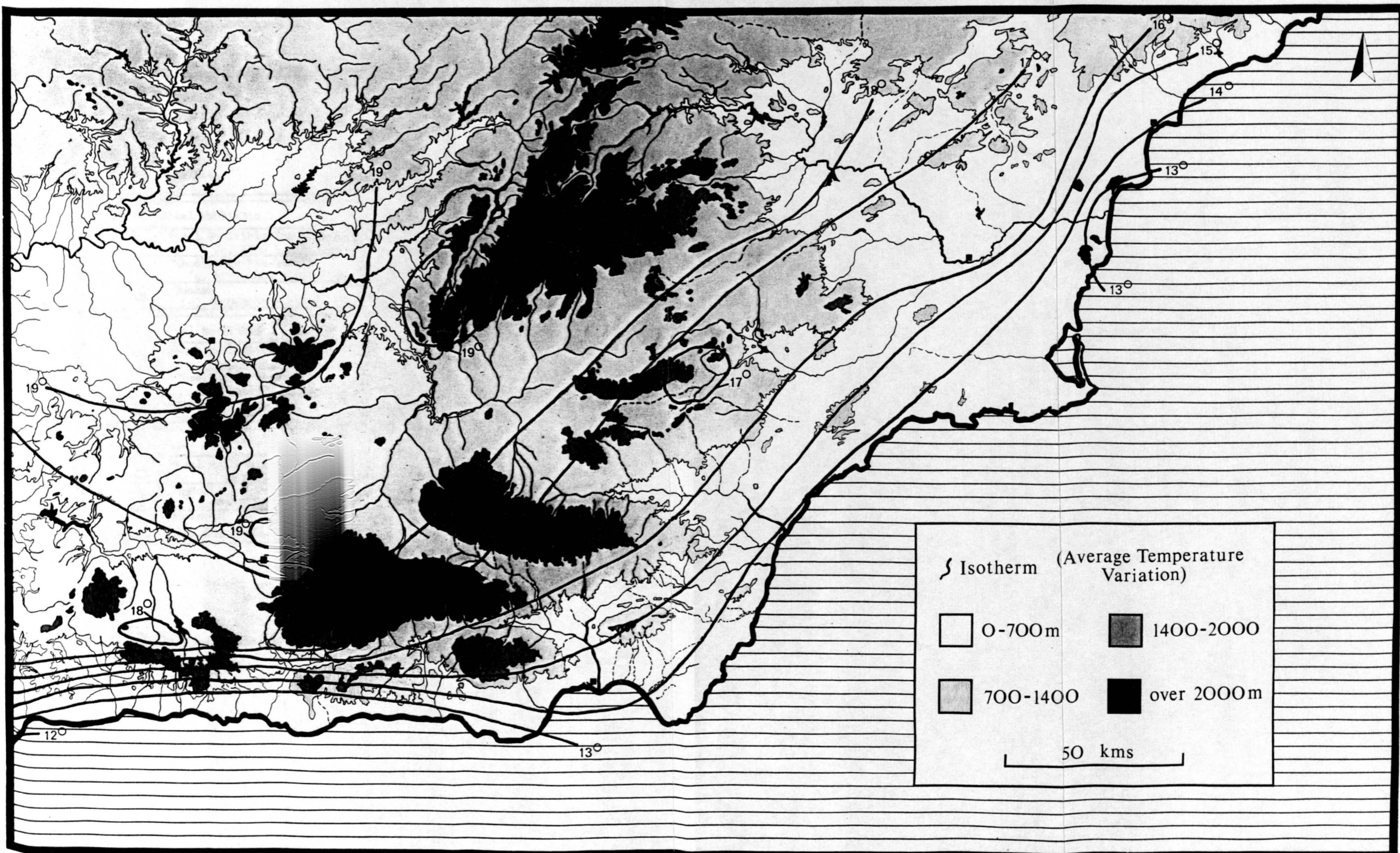
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Average Annual Rainfall Totals for South-East Spain



Average Annual Temperature Variations in South-East Spain



PIG AND DEER REMAINS FROM TERRERA VENTURA (TABERNAS, ALMERÍA)

	Phase/Date	No. of Frags.	MNI	Bone Wt.
Cervus elaphus	I - Final Neolithic	- -	- -	- -
	II - Final Neolithic-Eneolithic (c. 2700 b.c.)	9 (4%)	1 (6%)	- -
	III - Eneolithic-Pre-Beaker (c. 2700-2400 b.c.)	160 (8%)	8 (5%)	3720 (18.0%)
	IV - Beaker (c. 2400-2000 b.c.)	84 (7%)	4 (5%)	1770 (15.2%)
Sus domesticus	I - Final Neolithic	- -	- -	- -
	II - Final Neolithic-Eneolithic (c. 2700 b.c.)	- -	- -	- -
	III - Eneolithic-Pre-Beaker (c. 2700-2400 b.c.)	332 (16.5%)	12 (7.8%)	2940 (14.3%)
	IV - Beaker (c. 2400-2000 b.c.)	214 (18.0%)	8 (10.5%)	1950 (16.7%)
Sus scrofa	I - Final Neolithic	- -	- -	- -
	II - Final Neolithic-Eneolithic (c. 2700 b.c.)	- -	- -	- -
	III - Eneolithic-Pre-Beaker (c. 2700-2400 b.c.)	28 (1.5%)	3 (2%)	3 (3%)
	IV - Beaker (c. 2400-2000 b.c.)	15 (1.25%)	2 (2.5%)	325 (2.8%)

(Source: Driesch and Morales 1977)

PIG AND DEER REMAINS FROM CERRO DE LA VIRGEN (ORCE, GRANADA)

	Phase/Date	No. of Frags.	MNI	Bone Wt.
<u>Sus scrofa and Sus domesticus</u>	I (2000 b.c.)	34.9% (1798)	29.9% (26)	37.0% (18,500)
	I/II	23.6% (1062)	23.7% (23)	22.0% (11,450)
	II (2000-1600 b.c.)	18.9% (3901)	16.3% (67)	18.8% (46,700)
	II/III	16.7% (447)	10.5% (7)	15.3% (4780)
	III (1600-1200 b.c.)	15.3% (874)	12.1% (17)	10.2% (8870)
	III/IV	15.6% (140)	13.6% (3)	10.8% (1500)
	IV (after 714 A.D.)	15.3% (276)	9.3% (5)	9.6% (2600)
	? Undated	19.0% (330)	3.9% (2)	19.5% (4050)
<u>Sus scrofa</u>	I (2000 b.c.)	1.2% (17)	- (1)	- -
	I/II	2.4% (22)	- (1)	- -
	II (2000-1600 b.c.)	1.3% (53)	0.9% (3)	- -
	II/III	1.7% (6)	- -	- -
	III (1600-1200 b.c.)	1.6% (12)	- (1)	- -
	III/IV	8.4% (13)	- (1)	- -
	IV (after 714 A.D.)	2.8% (4)	- (1)	- -
	? Undated	3.1% (9)	- -	- -
<u>Cervus elaphus</u>	I (2000 b.c.)	4.4% (60)	3.7% (4)	- -
	I/II	11.4% (60)	8.2% (4)	- -
	II (2000-1200 b.c.)	13.8% (557)	2.6% (9)	- -
	II/III	22.7% (81)	- -	- -
	III (1600-1200 b.c.)	21.8% (160)	5.6% (4)	- -
	III/IV	20.6% (32)	- -	- -
	IV (after 714 A.D.)	34.5% (50)	- (2)	- -
	? Undated	21.1% (61)	- (1)	- -

(Source: Driesch 1972: 139, 142)

PIG AND DEER REMAINS FROM CERRO DEL REAL (GALERA, GRANADA)

	Phase/Date	No. of Frags.	MNI	Bone Wt.
<u>Sus domesticus</u>	Post-Argaric	109	-	-
	Pre-Iberian	2	-	-
	Iberian	0	-	-
	Arab	3	-	-
<u>Sus scrofa</u>	Post-Argaric	4	-	-
	Pre-Iberian	-	-	-
	Iberian	-	-	-
	Arab	-	-	-
<u>Cervus elaphus</u>	Post-Argaric	35	-	-
	Pre-Iberian	1	-	-
	Iberian	-	-	-
	Arab	-	-	-

(Source: Boessneck 1969; Driesch 1972:12)

RADIOCARBON AND THERMOLUMINESCENT DATES FOR SOUTHERN AND EASTERN SPAIN

NEOLITHIC

Site	Material	Laboratory No.	Date	Reference
Cueva Chica de Santiago (Cazalla de la Sierra, Sevilla)	?	?	5940 ± 180 b.c.	Pellicer and Acosta (1982: 53)
	?	?	5290 ± 230 b.c.	"
Cueva de los Murciélagos - Cueva Chica (Zuheros, Córdoba)	?	GrN-0926	4345 ± 45 b.c.	Muñoz (1974: 204)
	Carbon	GrN-6638	4300 ± 35 b.c.	Vicent and Muñoz (1973: 108-109)
	Wheat/Acorns	CSIC-54	4240 ± 130 b.c.	" (1973: 107)
	Wheat/Acorns	CSIC-53	4240 ± 130 b.c.	"
	Cereals	CSIC-55	4220 ± 130 b.c.	"
	Wheat/Acorns	GrN-0169	4200 ± 45 b.c.	" (1973: 108)
	Carbon	CSIC-98	4150 ± 130 b.c.	" (1973: 107-108)
	Cereals	GrN-6639	4075 ± 45 b.c.	" (1973: 108)
	Cereals	CSIC-57	4030 ± 130 b.c.	" (1973: 107)
	Carbon	CSIC-56	4010 ± 130 b.c.	"
Carbon	CSIC-59	3980 ± 130 b.c.	" (1973: 108)	
Cueva de la Dehesilla (Arcos de la Frontera, Cádiz)	?	?	5720 ± 400 b.c.	Pellicer and Acosta (1982: 56)
	?	?	5170 ± 200 b.c.	"
	?	?	5090 ± 170 b.c.	"
	?	?	3970 ± 160 b.c.	"
Cueva de Nerja (Maro, Málaga)	?	?	5940 ± 140 b.c.	Pellicer and Acosta (1982: 54)
	?	?	5210 ± 180 b.c.	"
	?	?	5180 ± 150 b.c.	"
	?	?	3840 ± 140 b.c.	"
	Cereals/Acorns	GrN-5526	3115 ± 40 b.c.	Hopf and Pellicer (1970: 31)
Cueva de los Murciélagos (Albuñol, Granada)	Carbon	CSIC-247	5490 ± 100 b.c.	Almagro and Fernández (1978: 50)
	Esparto	CSIC-246	3450 ± 80 b.c.	"
Cueva del Nacimiento (Pontones, Jaén)	?	Gif-5422	5490 ± 120 b.c.	Asquerino and López (1981: 133)
	Carbon	Gif-2368	4830 ± 130 b.c.	Rodriguez (1982: 240)
	?	Gif-5421	3990 ± 130 b.c.	Asquerino and López (1981: 133)

Site	Material	Laboratory No.	Date	Reference
Abrigo Grande del Barranco de los Grajos (Cieza, Murcia)	Animal Bone	HAR-179 III	5250 ± 160 b.c.	Otlet and Slade (1974: 187)
	Charcoal	HAR-180	3170 ± 620 b.c.	Otlet and Slade (1974: 188)
Coveta de l'Or (Beniarres, Alicante)	Carbon	C-13-M3	4770 ± 380 b.c.	Martí et. al. (1980: 25)
	Carbon	C-12-M2	4680 ± 290 b.c.	"
	Wheat	KH-51	4560 ± 160 b.c.	Almagro and Fernández (1978: 165)
	Wheat	K-1754/1008	4315 ± 74 b.c.	"
	Carbon	C-11-M1	4030 ± 260 b.c.	Martí et. al. (1980: 22)
Covaco 1 de Can Ballester (Vall de Uxo, Castellón)	?	?	5000 ± 120 b.c.	Gusf (1984: 88)
Cova Fosca (Ares del Maestre, Castellón)	?	CSIC-353	5690 ± 110 b.c.	Olaría de Gusf et. al. (1982: 112)
	?	CSIC-357	5260 ± 70 b.c.	" " 117
	?	CSIC-357	5150 ± 70 b.c.	" " 117
	?	?	3765 ± 180 b.c.	Martí (1978: 95)
Abrigo de Verdelpino (Valdecabras, Cuenca)	Bone	CSIC-153 A	6000 ± 150 b.c.	Fernández and Moure (1975: 232)
	Bone	CSIC-150 B	3220 ± 130 b.c.	"
	Bone	CSIC-152 B	3170 ± 130 b.c.	"
	Bone	CSIC-151 B	2680 ± 130 b.c.	"

COPPER AGE

Site	Material	Laboratory No.	Date	Reference
Cerro de la Virgen (Orce, Granada)	Charcoal	GrN-5596	1970 ± 35 b.c.	Vogel and Waterbolk (1972: 75)
	Charcoal	GrN-5597	1970 ± 60 b.c.	" (1972: 74)
	Plant Remains	GrN-5593	1940 ± 40 b.c.	"
	Wood/Acorns	GrN-5595	1915 ± 50 b.c.	" (1972: 75)
	Charcoal/Esparto	GrN-5598	1885 ± 35 b.c.	"
	Plant Remains	GrN-5764	1850 ± 35 b.c.	" (1972: 74)
	Wood	GrN-5594	1785 ± 55 b.c.	" (1972: 75)

Site	Material	Laboratory No.	Date	Reference
El Malagón (Cúllar-Baza, Granada)	Charcoal	UGRA-11	2570 ± 220 b.c.	González <i>et. al.</i> (1982; 218)
	Charcoal	UGRA-12	2150 ± 150 b.c.	"
	Charcoal	BM-2347	2070 ± 60 b.c.	Unpublished
	Charcoal	BM-2348	1920 ± 60 b.c.	Unpublished
Las Angosturas (Gor, Granada)	Bone	UGRA-88	3070 ± 190 b.c.	González <i>et. al.</i> (1985; 611)
	Bone	UGRA-87	2500 ± 240 b.c.	"
	Charcoal	UGRA-84	2360 ± 150 b.c.	" (1985; 610)
	Charcoal	UGRA-126	2290 ± 120 b.c.	" (1985; 611)
	Charcoal	UGRA-82	2260 ± 140 b.c.	González <i>et. al.</i> (1982; 220)
	Charcoal	UGRA-81	2200 ± 170 b.c.	"
	Bone	UGRA-30	2090 ± 140 b.c.	González <i>et. al.</i> (1985; 610)
	Charcoal	UGRA-125	2030 ± 160 b.c.	"
● Los Millares (Santa Fe de Mondújar, Almería)	Charcoal	KN-72	2430 ± 120 b.c.	Almagro and Fernández (1978; 17)
	Carbon	H-204/247	2345 ± 85 b.c.	"
	Charcoal	BM-2343	2200 ± 40 b.c.	Unpublished
	Charcoal	BM-2344	2160 ± 110 b.c.	Unpublished
● El Tarajal (Níjar, Almería)	Carbon	CSIC-227	2280 ± 50 b.c.	Almagro and Fernández (1978; 17)
	Carbon	CSIC-222	2250 ± 50 b.c.	"
	Carbon	CSIC-228	2160 ± 50 b.c.	"
	Carbon	CSIC-219	2150 ± 50 b.c.	"
	Carbon	CSIC-221	2140 ± 50 b.c.	"
	Carbon	CSIC-220	2130 ± 50 b.c.	"
	Carbon	CSIC-218	2100 ± 50 b.c.	"
	Carbon	CSIC-225	2080 ± 50 b.c.	"
	Carbon	CSIC-229	2070 ± 50 b.c.	"
	Carbon	CSIC-223	2060 ± 90 b.c.	"
	Carbon	CSIC-230	1910 ± 80 b.c.	"
	Carbon	CSIC-224	1870 ± 50 b.c.	"
	● El Barranquete (Níjar, Almería)	Carbon	CSIC-81	2330 ± 130 b.c.
Carbon		CSIC-82	2350 ± 130 b.c.	"
● Terrera Ventura (Tabernas, Almería)	Charcoal	HAR-155	3420 ± 350 b.c. ⁴	Otlet and Slade (1974; 186)
	?	I-6935	2315 ± 90 b.c.	Chapman (1975; 306)
	Carbon	CSIC-264	2290 ± 60 b.c.	Almagro and Fernández (1978; 17)
	Carbon	CSIC-265	2250 ± 60 b.c.	"
	Esparto	CSIC-267	2160 ± 60 b.c.	"
	?	I-6934	2125 ± 90 b.c.	Chapman (1975; 306)
	Charcoal	HAR-298	2080 ± 80 b.c.	Otlet and Slade (1974; 186)
	● Almizaraque (Cuevas de Almanzora, Almería)	Shell	SUA-1169	2360 ± 100 b.c.
?		UGRA-93	2250 ± 110 b.c.	González <i>et. al.</i> (1985; 612)
?		UGRA-95	2180 ± 140 b.c.	"
?		UGRA-94	2170 ± 140 b.c.	"
?		UGRA-83	2150 ± 120 b.c.	"
?		UGRA-96	2140 ± 130 b.c.	"
Cereals		CSIC-269	1910 ± 60 b.c.	Almagro and Fernández (1978; 17)
Charcoal		KN-73	1860 ± 60 b.c.	Almagro (1972; 236)
● El Gárcel (Antas, Almería)	?	SUA-1173	2170 ± 100 b.c.	Walker (1985; 800)
	?	SUA-2145	1900 ± 70 b.c.	Walker (1985; 800)
● Parazuelos (Los Curas, Murcia)	Shell	HAR-521	2400 ± 80 b.c.	Almagro and Fernández (1978; 17)
● Cueva del Plomo (Mazarrón, Murcia)	Shell	SUA-1474	3220 ± 90 b.c. ⁵	Muñoz (pers. comm. 1983)
	Shell	SUA-1476	2980 ± 120 b.c. ⁶	"
● La Ceñuela (Lorca, Murcia)	Charcoal	CSIC-140	2100 ± 70 b.c.	Almagro and Fernández (1978; 17)
● Librilla (Librilla, Murcia)	?	SUA-2039	3660 ± 330 b.c. ⁷	Walker (1985; 812)
	?	SUA-2038	2660 ± 150 b.c.	"
	?	SUA-2037	2570 ± 90 b.c.	"
	?	SUA-2040	2550 ± 110 b.c.	"
El Prado (Jumilla, Murcia)	Bone	HAR-146	2130 ± 130 b.c.	Otlet and Slade (1974; 186)
Cueva de los Tiestos/Cueva de los Murciélagos Barley (Jumilla, Murcia)		HAR-160	1840 ± 115 b.c.	Otlet and Slade (1974; 187)
		HAR-358	1650 ± 80 b.c.	Otlet (1977; 418)

Site	Material	Laboratory No.	Date	Reference
Les Jovaes (Alcoy, Alicante)	?	SUA-2066	3260 ± 80 b.c.	Walker (1985; 812)
Cova del Moro (Agres, Alicante)	?	SUA-2070	2830 ± 80 b.c.	Walker (1985; 812)

BRONZE AGE

Site	Material	Laboratory No.	Date	Reference
Cueva de la Carigüela (Piñar, Granada)	Flint	TB-4	2350 ± 400 b.c.	Gösku et. al. (1974; 652)
Cerro de la Virgen (Orce, Granada)	Wood	GrN-5594	1785 ± 55 b.c.	Vogel and Waterboik (1972; 75)
Terrera del Reloj (Dehesas de Guadix, Granada)	Charcoal	EM-2354	1490 ± 50 b.c.	Unpublished
Cerro de la Encina (Monachil, Granada)	?	GrN-6634	1675 ± 40 b.c.	Arribas (1976; 155)
	Wood	UGRA-15	1600 ± 140 b.c.	González et. al. (1982; 219)
	Charcoal	UGRA-16	1600 ± 140 b.c.	"
	Charcoal	Ly-2657	1570 ± 110 b.c.	Evin et. al. (1985; 426)
	?	UGRA-116	1410 ± 150 b.c.	González et. al. (1985; 611)
	Charcoal	Ly-2656	1400 ± 100 b.c.	Evin et. al. (1985; 426)
Cerro de los Castellones (Laborcillas, Granada)	Carbon	UGRA-10	1715 ± 130 b.c.	González and Domingo (1978; 362)
	Cereals	Lv-2653	1550 ± 130 b.c.	Evin et. al. (1985; 426)
Cerro de la Mora (Moralada, Granada)	?	UGRA-92	1330 ± 140 b.c.	González et. al. (1985; 611)
Los Castillejos (Montefrío, Granada)	?	GrN-7287	1890 ± 35 b.c.	Arribas and Molina (1978; 136)

Site	Material	Laboratory No.	Date	Reference
Cerro de los Infantes (Pinos Puente, Granada)	?	UGRA-111	1630 ± 140 b.c.	González et. al. (1985; 611)
	?	UGRA-112	1440 ± 170 b.c.	"
	?	UGRA-113	1360 ± 160 b.c.	"
Las Angosturas (Gor, Granada)	Bone	UGRA-17	1510 ± 210 b.c.	González et. al. (1985; 610)
Cuesta del Negro (Purullena, Granada)	?	GrN-7286	1645 ± 35 b.c.	Arribas (1976; 155)
	Carbon	GrN-7285	1210 ± 35 b.c.	"
	Wheat	GrN-7284	1145 ± 35 b.c.	"
● Fuente Alamo (Cuevas de Almanzora, Almería)	?	?	1730 ± 70 b.c.	Schubart and Arteaga (1983; 61)
	?	?	1650 ± 70 b.c.	"
	?	?	1550 ± 60 b.c.	"
	?	?	1520 ± 60 b.c.	"
	?	?	1330 ± 70 b.c.	"
	?	?	1300 ± 70 b.c.	"
El Pichaco (Oría, Almería)	Wood	CSIC-156	1500 ± 120 b.c.	Hernández and Dug (1975; 114)
	Barley	CSIC-157	1440 ± 120 b.c.	"
● El Argar (Antas, Almería)	Wood	CSIC-248	1720 ± 70 b.c.	Almagro and Fernández (1978; 173)
Motilla del Azuer (Daimiel, Ciudad Real)	Charcoal	UGRA-132	2080 ± 130 b.c.	González et. al. (1985; 613)
	Charcoal	UGRA-19	1910 ± 140 b.c.	González et. al. (1982; 219)
	Charcoal	UGRA-115	1820 ± 160 b.c.	González et. al. (1985; 613)
	Seed	UGRA-118	1780 ± 150 b.c.	"
	Seed	UGRA-129	1730 ± 100 b.c.	"
	Seed	UGRA-127	1670 ± 100 b.c.	"
	Seed	Ly-2655	1590 ± 130 b.c.	Evin et. al. (1985; 426)
	Seed	Ly-2654	1580 ± 130 b.c.	"
	Charcoal	UGRA-21	1550 ± 140 b.c.	González et. al. (1982; 219)
	Charcoal	UGRA-97	1540 ± 180 b.c.	"
	Charcoal	UGRA-20	1530 ± 140 b.c.	"
	Seed	UGRA-114	1490 ± 130 b.c.	González et. al. (1985; 613)
	Charcoal	UGRA-109	1450 ± 130 b.c.	"

Site	Natural	Laboratory No.	Date	Reference
Motilla del los Palacios (Almagro, Ciudad Real)	Carbon	UCRA-110	1370 ± 170 b.c.	González et. al. (1985; 613)
		UCRA-11	1670 ± 170 b.c.	González and Domingo (1978; 163)
Rincon de Olvera (Ubeda, Jaén)	?	UCRA-44	2470 ± 110 b.c.	González et. al. (1985; 612)
		UCRA-74	1760 ± 150 b.c.	"
Morra del Quintanar (Munera, Albacete)	Charcoal	UCRA-104	1820 ± 140 b.c.	González et. al. (1985; 612)
		UCRA-78	1720 ± 120 b.c.	González et. al. (1982; 219)
		UCRA-79	1680 ± 170 b.c.	"
		UCRA-47	1660 ± 140 b.c.	"
		UCRA-101	1660 ± 130 b.c.	"
		UCRA-102	1550 ± 130 b.c.	González et. al. (1985; 612)
		UCRA-100	1540 ± 150 b.c.	González et. al. (1982; 219)
		UCRA-103	1520 ± 120 b.c.	González et. al. (1985; 612)
● La Ceñuela (Lorca, Murcia)	Charcoal	CSIC-141	1640 ± 70 b.c.	Almagro and Fernández (1978; 171)
Cabezo Redondo (Villena, Alicante)	Charcoal Wood	H-2277	1600 ± 55 b.c.	Vogel and Waterbolk (1972; 78)
		GRN-5109	1350 ± 55 b.c.	"
Cat{ Forada (Petrel, Alicante)	Charcoal	Birm-199	1552 ± 150 b.c.	Shotton and Williams (1971; 155)
Sierra Grossa (Alicante, Alicante)	Cereals	Bln-947	1865 ± 100 b.c.	Almagro and Fernández (1978; 172)
Terlingues (Villena, Alicante)	Carbon	I-4525	1850 ± 115 b.c.	Almagro and Fernández (1978; 172)

FOOTNOTES FOR DATE LIST

¹ The site of Cueva de los Murciélagos is dominated by elements typical of the Late-Final Neolithic in Andalucía, including a range of incised and impressed 'Cave Culture' pottery, spout handles, decorated cordons and stone bracelets (Gongora 1868; 28-49). A gold diadem and a collective burial at the site may also indicate later occupation (i.e. in the Copper Age). Given these facts, and the lack of any diagnostic Early Neolithic items, the 6th millennium date for this site appears to be out of place. López (1978; 50) refers to the date as 'excessively high' and points to the fact that the site was nearly destroyed by mining at the time of its discovery, and that much of the material collected by Gongora was derived from a rubble heap or dump (escombrera) at the entrance to the cave. The reliability of this date is, therefore, very doubtful, and has been generally rejected.

^{2 & 3} These two dates are both referred to as CSIC-357 by Olarfa de Gusi et. al. (1982; 117), probably as a result of a typographical error, since they are clearly distinct from one another.

⁴ The reliability of the 4th millennium date from Terrera Ventura (HAR-155) can be questioned on several grounds. First, the date was derived from an old archaeological sections and is a millennium earlier than any of the other dates from the site - the latter ranging from c. 2400-2000 b.c. (see date list). Moreover, the date is based on a combined charcoal sample which produced a very large standard deviation. As a result, the date has generally been regarded as unreliable by, amongst others, the excavator of the site, Gusi Jener (see Almagro Gorbea 1974: 291; Balbín-Behrmann 1978: 77).

^{5 & 6} The site of Cueva del Plomo is a small fortified settlement with a bastioned wall (Muñoz Amilibia 1982) and a small megalithic cemetery. If correct, these two dates would constitute the earliest evidence a permanent agricultural settlement in the semi-arid lowlands. Once again, however, this early date can be called into question. Firstly, a late 4th or early 3rd millennium date is not consistent with the chronology of fortified settlements in other areas of the Peninsula (cf. Almagro Gorbea and Fernández Miranda (eds.) 1978) or in the Western Mediterranean generally (Lewthwaite 1981-1982; 27, fig. 4; Phillips 1975). In addition, materials from the site are similar to the Millaran Copper Age assemblages from the Guadalentín Basin and elsewhere in lowland Murcia and Almería, all of which date to the 2nd half of the 3rd millennium b.c.. Finally, the shallow stratigraphy at the site and the lack of Late-Final Neolithic materials (such as 'Cave Culture' incised, impressed or incised wares) suggests that these dates should be treated with some caution, at least until more detailed information about their context is made available. In the unlikely event that these dates are eventually confirmed, they need not be related to the construction of the fortified settlement nor to any permanent occupation at the site. Moreover, even if they were, Cueva del Plomo would constitute only one example of permanent settlement in the semi-arid zone, and more importantly would still leave a gap in occupation on the order of some 3 millennia (i.e. between c. 6000-3000 b.c.).

7 The Copper Age sites near Librilla in the Guadalentín Basin have been investigated by Dr. M.J. Walker and myself, and samples have recently been submitted by him from one, or several, of these sites. Details about the context of these samples have not been published as yet, but in a recent article, Walker (1985: 182) has presented 4 separate dates from this complex of sites. Again, the majority of dates fall into the 2nd half of the 3rd millennium b.c. (3 of 4), and one falls in the 4th millennium b.c. (i.e. SUA-2039 3660 ± 330 b.c.). This date is clearly anomalous since the only material found at this sites thus far is Copper Age. After a detailed examination of this site I have found absolutely no sign of materials which might date to the 4th millennium b.c.. In fact, it is not clear from Walker's publication what type of assemblage this date is associated with, if indeed, it can be directly linked with archaeological materials.

● = Site in area with less than 300 mm of rainfall annually

EARLY NEOLITHIC-EARLY COPPER AGE FLINT ASSEMBLAGES FROM COVETA DE L'OR
(BENIARRÉS, ALICANTE)

Period	Retouched Blade/ Bladelet	Blade/ Bladelet w/ use wear	Blade/ Bladelet	Sickle Tool	Perforator	Trapeze
Late Neo/ Early Copper Age	3% (7)	5% (10)	8% (15)	2% (5)	0.50% (1)	2% (5)
	1% (1)	5% (4)	13% (10)	3% (2)	-	1% (1)
Middle Neolithic	5% (2)	16% (6)	11% (4)	-	-	5% (2)
	2% (1)	5% (3)	14% (8)	2% (1)	2% (1)	2% (1)
	9% (3)	3% (1)	15% (5)	12% (4)	-	3% (1)
	8% (4)	6% (3)	10% (5)	-	2% (1)	-
	4% (2)	8% (4)	12% (6)	-	-	2% (1)
	7% (4)	5% (3)	13% (7)	2% (1)	-	4% (2)
	6% (2)	11% (4)	8% (3)	3% (1)	-	-
	6% (2)	6% (2)	14% (5)	3% (1)	-	-
	6% (4)	11% (17)	13% (20)	2% (3)	-	2% (3)
	7% (2)	10% (3)	21% (6)	3% (1)	-	-
Early Neolithic	-	17% (2)	25% (3)	-	-	-
	-	-	21% (3)	-	7% (1)	-
	-	12.5% (1)	25% (2)	-	-	-
	-	-	37.5% (3)	-	-	-
	-	-	25% (1)	-	-	-
	-	25% (1)	25% (1)	-	-	-
	-	-	100% (1)	-	-	-

(Source: Martí Oliver et. al. 1980)

EARLY NEOLITHIC-EARLY COPPER AGE FLINT ASSEMBLAGES FROM COVETA DE L'OR
(BENIARRÉS, ALICANTE)

Period	Triangle	Segment	Arrowhead	Truncation w/ retouch	Flake w/ retouch or use wear	Core
Late Neo/ Early Copper Age	0.50% (1)	-	3% (7)	2% (5)	6% (13)	1% (2)
	-	-	-	5% (4)	5% (4)	8% (6)
Middle Neolithic	-	-	-	-	-	-
	-	-	-	-	7% (4)	-
	-	-	-	6% (2)	3% (1)	-
	-	-	-	-	-	4% (2)
	-	2% (1)	-	2% (1)	2% (1)	6% (3)
	-	-	-	2% (1)	2% (1)	4% (2)
	-	-	-	-	3% (1)	-
	-	3% (1)	-	-	3% (1)	3% (1)
	-	-	-	1% (2)	6% (10)	3% (4)
	-	-	-	3% (1)	-	3% (1)
Early Neolithic	-	-	-	-	-	-
	-	-	-	7% (1)	-	-
	-	-	-	-	-	-
	-	-	-	-	-	-
	-	-	-	-	-	-
	-	-	-	-	-	-
	-	-	-	-	-	-
	-	-	-	-	-	-
	-	-	-	-	-	-
	-	-	-	-	-	-

(Source: Martí Oliver et. al. 1980)

EARLY NEOLITHIC-EARLY COPPER AGE FLINT ASSEMBLAGES FROM COVETA DE L'OR

(BENIARRÉS, ALICANTE)

Period	Flake or Waste	Total	Blade/ Bladelet (Total)	Tools/ Waste	Approx. Surface Area (cm ²)
Late Neo- Early Copper Age	69% (134)	205	16% (32)	34% (69)/ 66% (134)	5850
	63% (48)	76	20% (15)	31% (22)/ 78% (48)	1035
	62% (23)	37	32% (12)	38% (14)/ 62% (23)	375
Middle Neolithic	57% (39)	58	21% (12)	33% (19)/ 67% (39)	415
	48% (16)	33	27% (9)	52% (17)/ 48% (16)	255
	71% (36)	51	18% (9)	27% (13)/ 73% (36)	505
	62% (31)	50	24% (12)	33% (15)/ 67% (31)	410
	62% (34)	55	26% (14)	36% (19)/ 64% (34)	420
	69% (25)	36	28% (10)	31% (11)/ 69% (25)	665
	64% (23)	36	25% (9)	34% (12)/ 66% (23)	455
	60% (95)	158	26% (41)	38% (59)/ 62% (95)	2540
	52% (15)	29	38% (11)	46% (13)/ 44% (15)	484
	58% (7)	12	42% (5)	42% (5)/ 83% (7)	225
Early Neolithic	64% (9)	14	23% (3)	36% (5)/ 64% (9)	125
	50% (3)	6	50% (3)	50% (3)/ 50% (3)	100
	62.5% (5)	8	37.5% (3)	37.5% (3)/ 62.5% (5)	90
	75% (3)	4	25% (1)	25% (1)/ 75% (3)	60
	50% (2)	4	50% (2)	50% (2)/ 50% (2)	-
	-	1	100% (1)	100% (1)/ 0% (0)	35

(Source: Martí Oliver et. al. 1980)

EARLY NEOLITHIC-EARLY COPPER AGE NON-FLINT LITHIC MATERIAL FROM
COVETA DE L'OR (BENIARRÉS, ALICANTE)

Period	Axe	Adze	Necklace Bead/Pendant	Plaque	Percussor	Quern	Total	Approximate Surface Area (cm ²)
Late Neo./Early Copper Age	-	-	1	-	-	-	1	5850
	1	-	-	-	-	-	1	1035
Middle Neolithic	-	-	-	-	-	-	-	375
	-	-	-	-	-	-	-	415
	-	1	-	-	-	-	1	255
	-	-	1	1	-	-	2	505
	-	-	-	-	-	-	-	410
	-	-	-	-	-	-	-	420
	-	-	1	-	1	1	3	665
	-	-	-	-	-	-	-	455
	-	-	1	-	1	3	5	2540
	-	-	-	-	-	1	1	484
Early Neolithic	-	-	-	-	-	-	-	225
	-	-	-	-	-	-	-	125
	-	-	-	-	-	-	-	100
	-	-	-	-	-	-	-	90
	-	-	-	-	-	-	-	60
	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	35

(Source: Martí Oliver et. al. 1980)

EARLY NEOLITHIC-EARLY COPPER AGE BONE AND SHELL MATERIAL FROM COVETA DE
L'OR (BENIARRÉS, ALICANTE)

Period	Bone Point	Bone Spatula	Bone Ring	Bone Disc	Bone Needle/Bone Pendant	Fish Vertebra	Bone Spoon	Shell Necklace Bead/Pendant	Total	Approximate Surface Area (cm ²)
Late Neo./Early Copper Age	1	-	3	-	1	1	1	1	8	5850
	-	-	-	-	-	1	-	2	3	1035
Middle Neolithic	-	-	-	-	-	-	-	-	-	375
	-	-	-	-	-	1	-	-	1	415
	-	1	-	-	-	-	-	1	2	255
	1	-	1	-	-	-	-	-	2	505
	-	-	-	-	-	-	-	-	-	410
	1	1	1	-	1	-	-	-	4	420
	-	-	-	-	1	-	-	1	2	665
	1	-	2	-	-	-	-	-	3	455
	4	-	5	-	1	-	3	-	13	2540
Early Neolithic	2	-	-	-	-	-	-	-	2	484
	-	-	-	-	-	-	-	-	-	225
	1	-	-	-	-	-	-	-	-	125
	1	-	-	1	-	-	-	-	2	100
	-	-	1	-	-	-	-	-	1	90
	-	-	-	-	-	-	-	-	-	60
	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	35

(Source: Martí Oliver et. al. 1980)

EARLY NEOLITHIC-EARLY COPPER AGE CERAMIC ASSEMBLAGES FROM COVETA DE L'OR
(BENIARRÉS, ALICANTE)

Period	Cardial Impressed Ware	Non-Cardial Impressed Ware	Incised or Channeled Ware	Combed Ware	Undecorated Ware	Lugs
Late Neo-/Early Copper Age	3% (29)	1% (10)	1% (7)	1% (8)	91% (894)	0.5% (3)
	2% (4)	3% (5)	0.5% (1)	0.5% (1)	89% (170)	-
Middle Neolithic	3% (3)	5% (5)	1% (1)	5% (5)	44% (40)	1% (1)
	6% (5)	4% (3)	2% (2)	-	82% (68)	-
	11% (6)	2% (1)	-	-	83% (44)	-
	7% (6)	3% (3)	4% (4)	-	83% (75)	-
	13% (11)	1% (1)	4% (3)	-	77% (65)	1% (1)
	14% (12)	2% (2)	5% (4)	1% (1)	75% (63)	-
	12% (13)	2% (2)	1% (1)	-	82% (89)	-
	20% (18)	1% (1)	4% (4)	-	69% (62)	-
	Early Neolithic	17.5% (77)	0.5% (2)	2.50% (11)	-	74% (326)
15% (13)		2% (2)	2% (2)	1% (1)	74% (66)	2% (2)
12% (6)		-	-	-	88% (43)	-
33% (10)		3% (1)	3% (1)	-	60% (18)	-
31% (8)		-	-	-	65% (17)	-
28% (10)		-	3% (1)	-	59% (21)	3% (1)
12.5% (2)		-	-	-	87.5% (14)	-
20% (1)		-	-	-	-	20% (1)
-	-	-	-	86% (6)	-	

(Source: Martí Oliver et. al. 1980)

EARLY NEOLITHIC-EARLY COPPER AGE CERAMIC ASSEMBLAGES FROM COVETA DE L'OR
(BENIARRÉS, ALICANTE)

Period	Handles	Plain Gorden	Impressed or Incised Gorden	% Plain/Decorated	Total No. of Fragments	Approx. Surface Area (cm ²)
Late Neo-/Early Copper Age	0.50% (5)	1% (6)	1% (7)	91.41% 8.50%	978	5850
	2% (3)	-	2% (4)	89.47% 10.53%	190	1035
Middle Neolithic	1% (1)	-	4% (4)	44.44% 55.56%	91	375
	5% (4)	-	1% (1)	81.93% 18.07%	83	415
	-	-	2% (1)	82.02% 16.98%	53	255
	1% (1)	-	3% (3)	83.33% 16.67%	90	505
	1% (1)	2% (2)	5% (4)	77.38% 29.23%	84	410
	-	-	5% (4)	75.00% 25.00%	84	420
	1% (1)	1% (1)	-	81.65% 18.35%	109	665
	2% (2)	2% (2)	3% (3)	68.89% 31.11%	90	455
	2% (7)	3% (13)	2% (8)	74.09% 25.91%	440	2540
Early Neolithic	1% (1)	2% (2)	1% (1)	74.16% 25.84%	89	484
	-	2% (1)	-	87.76% 12.24%	49	225
	-	-	3% (1)	60.00% 40.00%	30	125
	8% (2)	-	-	65.38% 34.62%	26	100
	3% (1)	3% (1)	3% (1)	58.33% 41.67%	36	90
	-	-	-	87.50% 12.50%	16	60
	-	60% (3)	-	100.00% 0%	4	-
	-	14% (1)	-	85.71% 14.29%	7	35

(Source: Martí Oliver et. al. 1980)

EARLY NEOLITHIC-EARLY COPPER AGE FAUNAL REMAINS FROM COVETA DE L'OR (BENIARRÉS,
ALICANTE)

Period	Capra-Ovis	Ovis	Capra hircus	Sus domesticus	Bos taurus	Bos primigenius
Late Neo./ Early Copper Age	38% (104)	11% (29)	-	16% (44)	1% (3)	0.5% (1)
	37% (34)	18% (17)	1% (1)	12% (11)	-	-
Middle Neolithic	39% (7)	22% (4)	-	-	-	-
	50% (16)	13% (4)	3% (1)	16% (5)	-	-
	44% (11)	24% (6)	-	8% (2)	-	-
	32% (10)	26% (8)	3% (1)	19% (6)	6% (2)	-
	27% (8)	23% (7)	-	23% (7)	-	-
	33% (10)	23% (7)	-	3% (1)	7% (2)	-
	37% (11)	40% (12)	3% (1)	7% (2)	-	-
	29% (6)	14% (3)	-	38% (8)	-	-
Early Neolithic	25% (28)	30% (6)	5% (6)	23% (25)	1% (1)	-
	30% (10)	9% (3)	3% (1)	15% (5)	-	-
	33% (4)	33% (4)	8% (1)	8% (1)	-	-
	25% (1)	25% (1)	-	25% (1)	-	-
	55% (6)	27% (3)	-	-	-	-
	20% (2)	30% (3)	-	-	10% (1)	-

(Source: Martí Oliver et. al. 1980)

EARLY NEOLITHIC-EARLY COPPER AGE FAUNAL REMAINS FROM COVETA DE L'OR (BENIARRÉS,
ALICANTE)

Period	Equus caballus	Capra pyrenaica	Cervus elaphus	Capreolus capreolus	Sus scrofa	Felis lynx pardina
Late Neo./ Early Copper Age	-	5% (14)	4% (10)	9% (24)	3% (7)	0.5% (1)
	1% (1)	-	8% (7)	11% (10)	-	1% (1)
Middle Neolithic	-	-	-	6% (1)	-	-
	-	-	9% (3)	3% (1)	-	-
	-	-	-	-	4% (1)	-
	-	-	-	-	-	-
	-	3% (1)	7% (2)	-	-	-
	-	-	3% (1)	-	-	-
	-	-	-	-	-	-
	-	-	-	-	-	-
Late Neolithic	-	-	-	5% (1)	-	5% (1)
	-	-	4% (4)	1% (1)	-	-
	-	-	18% (6)	-	-	-
	-	-	8% (1)	-	-	-
	-	-	-	-	-	-
	-	-	-	-	-	-
	-	-	-	-	-	-

(Source: Martí Oliver et. al. 1980)

EARLY NEOLITHIC-EARLY COPPER AGE FAUNAL REMAINS FROM COVETA DE L'OR (BENIARRÉS,
ALICANTE)

Period	Felis silvestris	Oryctolagus cuniculus	Lepus capensis	Total Fragments	% Domestic/ Wild sp.	Approx. Surface Area (cm ²)
Late Neoc./ Early Copper Age	0.5% (1)	13% (36)	0.75% (2)	276	66% (181)/ 34% (95)	5850
	-	11% (10)	-	92	70% (64)/ 30% (28)	1035
Middle Neolithic	-	6% (6)	-	18	61% (11)/ 39% (7)	375
	-	6% (2)	-	32	81% (26)/ 19% (6)	415
	-	20% (5)	-	25	76% (19)/ 24% (6)	255
	-	13% (4)	-	31	87% (27)/ 13% (4)	505
	-	17% (5)	-	30	73% (22)/ 27% (8)	410
	-	23% (7)	-	30	70% (21)/ 30% (9)	420
	-	13% (4)	-	30	87% (26)/ 13% (4)	665
	-	10% (2)	-	21	81% (17)/ 19% (4)	455
Early Neolithic	-	11% (12)	-	110	85% (93)/ 15% (17)	2540
	-	24% (8)	3.0% (1)	34	56% (19)/ 44% (15)	484
	-	8% (1)	-	12	83% (10)/ 17% (2)	225
	-	25% (1)	-	4	75% (3)/ 25% (1)	125
	-	18% (2)	-	11	82% (9)/ 18% (2)	100
	-	40% (4)	-	10	60% (6)/ 40% (4)	90

(Source: Martí Oliver et. al. 1980)

TOTAL OF FAUNAL REMAINS FROM EARLY-MIDDLE NEOLITHIC LEVELS AT COVETA DE L'OR (Beniarres, Alicante)

Species	Number of Fragments	%	Minimum Number of Individuals	%
Capra/Ovis	416	34.7	162	34.1
Ovis aires	227	18.9	87	18.2
Capra hircus	32	2.6	18	3.7
Bos taurus	24	2.0	16	3.3
Sus domesticus	177	14.7	72	15.1
Canis familiaris	10	0.8	5	0.9
Total for Domestic Species	886	73.7	360	75.3
Equus caballus	3	0.3	3	0.5
Bos primigenius	7	0.6	6	1.2
Capra pyrenaica	18	1.5	8	1.6
Cervus elaphus	71	5.9	34	7.1
Capreolus capreolus	73	6.0	28	5.8
Sus scrofa	8	0.7	4	0.8
Felis silvestris	1	0.08	1	0.2
Felis lynx	3	0.3	3	0.6
Oryctolagus cuniculus	124	10.2	28	5.8
Lepus capensis	3	0.3	2	0.4
Total for Wild Species	311	25.9	117	24.0
Overall Totals	1197	100.0	477	100.0

¹ From Trenches J-4 and J-5, and excavations of 1955-1958

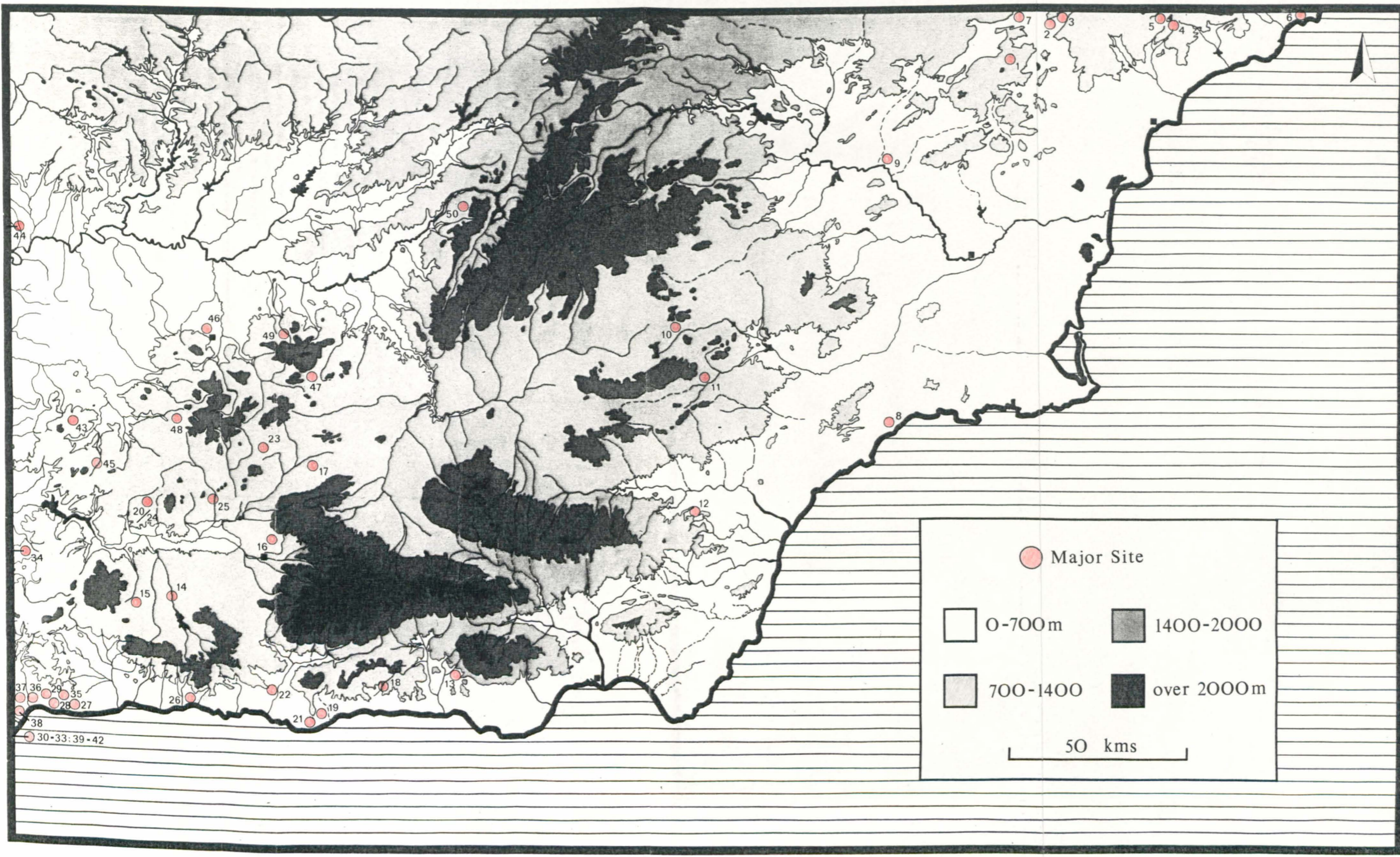
(Source: Martí Oliver 1983: 26)

-
1. Cueva de Lagrimal (Salinas, Alicante)
 2. [▲]Casa de Lara (Villena, Alicante)
 3. [▲]Arenal de la Virgen (Villena, Alicante)
 4. Freginal de la Pont Major (Torremanzanas, Alicante)
 5. Bancal de la Corona (Torremanzanas, Alicante)
 6. [▲]Cova de les Cendrés (Moraira, Alicante)
-
7. [▲]Cueva Santa (Caudete, Albacete)
-
8. [▲]Cueva de los Toyos (Los Curas, Murcia)
 9. [▲]Abrigo Grande del Barranco de los Grajos (Cieza, Murcia)
-
10. Cueva Ambrosio (Vélez Blanco, Almería)
 11. [▲]Cerro de las Animas (Vélez Rubio, Almería)
 12. Cueva del Castillico (Córdoba, Almería)
 13. Cuevas de Berja (Berja, Almería)
-
14. [▲]Cacín/Cueva del Agua (Alhama de Granada, Granada)
 15. Sima Rica/Sima Caburero/Sima del Conejo/Sima de la Maquilla (Alhama de Granada, Granada)
 16. [▲]Las Majolicas/Cueva del Tajo de la Monea (Alfacar, Granada)
 17. [▲]Cueva de la Carigüela/Cueva de la Campana (Píñar, Granada)
 18. Cueva de los Murciélagos (Albuñol, Granada)
 19. Sima de los Intentos (Gualchos, Granada)
 20. Los Castillejos/Cueva de las Cabras/Cueva de la Mujer (Montefrío, Granada)
 21. Cueva de las Campanas (Calahonda, Granada)
 22. [▲]Cueva del Capitán (Lobres, Granada)
 23. Cueva del Cerro del Castellon (Campotejar, Granada)
 24. Cueva Negra (Montefrío, Granada)
 25. Zorrera de la Cañada Honda/Cueva del Malamuerzo[▲] (Moclín, Granada)
-
26. [▲]Cueva de Nerja (Nerja, Málaga)
 27. Cueva del Hoyo de la Mina (La Cala del Moral, Málaga)
 28. Cueva de la Victoria (La Cala del Moral, Málaga)
 29. Cueva de la Cantero (La Cala del Moral, Málaga)
 30. Cueva de la Zorrera (Benalmádena, Málaga)
 31. Cueva del Tesoro (Torremolinos, Málaga)

32. Cueva de la Tapada (Torremolinos, Málaga)
 33. Cueva del Sahara (Benalmádena, Málaga)
 34. [▲]Cueva de las Goteras (Mollina, Málaga)
 35. [▲]Cueva del Higuerón (La Cala del Moral, Málaga)
 36. Cueva de Belda (Málaga, Málaga)
 37. Cueva Piedras (Málaga, Málaga)
 38. Cueva de San Marcos (Málaga, Málaga)
 39. Cueva del Arroyo de la Miel (Torremolinos, Málaga)
 40. Cueva del Carramolo (Torremolinos, Málaga)
 41. Cueva de los Mármoles (Torremolinos, Málaga)
 42. Sima de la Mesa (Alzaina, Málaga)
-
43. Cueva Chica - Cueva de los Murciélagos (Zuheros, Córdoba)
 44. Cueva de Canaveralejo (Adamuz, Córdoba)
 45. Cuevas del Caldero/de los Mármoles/Murciélagos/Negra/ del Tocino (Priego, Córdoba)
-
46. Cueva del Canjorro (Jaén, Jaén)
 47. Cueva de Guadalijar (Huelma, Jaén)
 48. Cuevas del Plato/de la Chatarra/de la Murcielaguina (Castillo de Locupín, Jaén)
 49. Cueva de Torres (Torres, Jaén)
 50. Cueva del Nacimiento (Pontones, Jaén)
-

▲ = associated with Cardial Impressed Ware

DISTRIBUTION OF MAJOR NEOLITHIC SITES IN SOUTH-EAST SPAIN



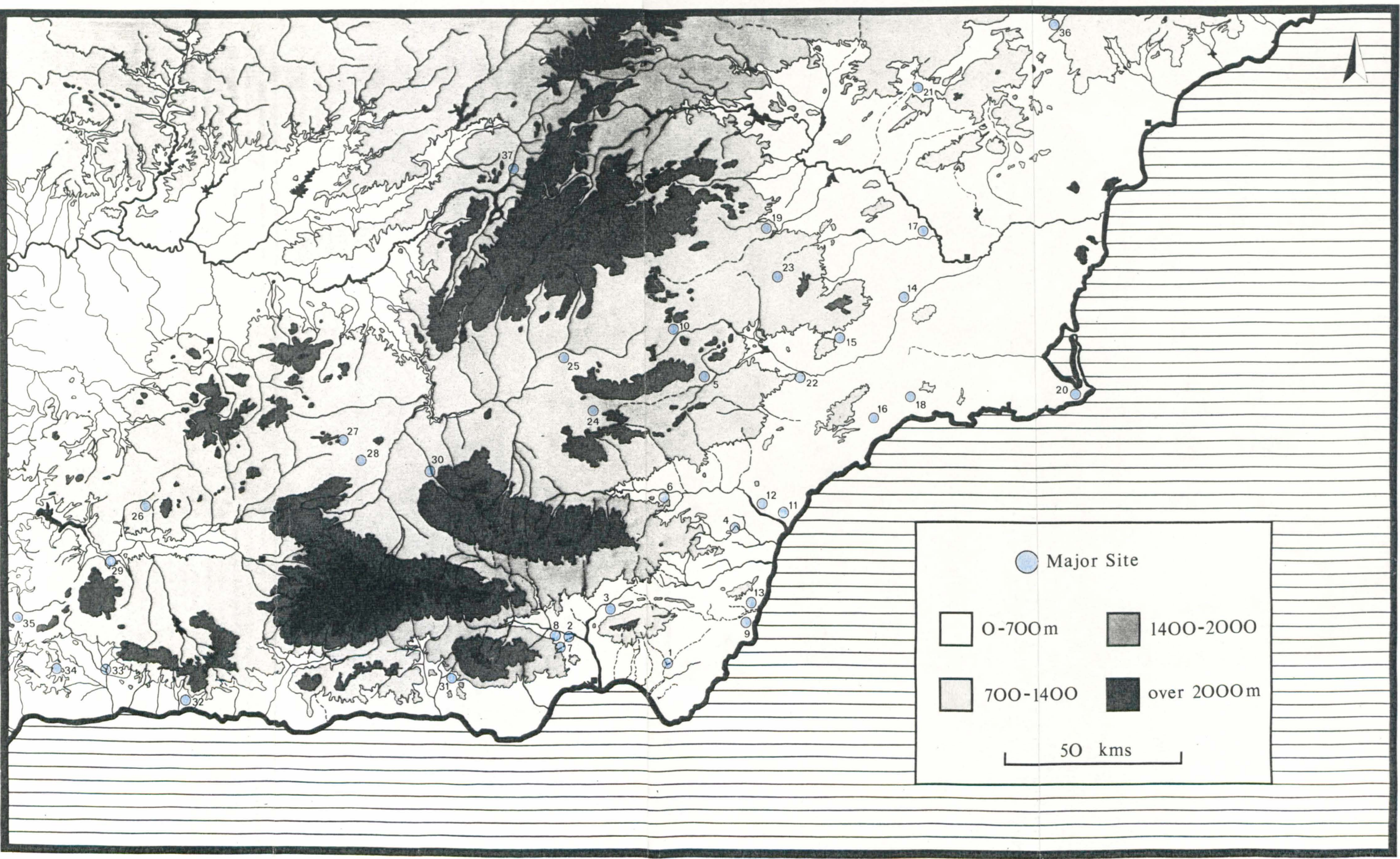
-
1. El Barranquete/El Tarajal (Níjar, Almería)
 2. Los Millares (Santa Fe de Mondújar, Almería)
 3. Terrera Ventura (Tabernas, Almería)
 4. La Gerundia/El Cárcel (?) (Antas, Almería)
 5. Cerro de las Canteras (Velez Blanco, Almería)
 6. Las Churuletas/Llano de la Lampara/Barranca de la Jocalla/Cantoria (Purchena, Almería)
 7. Cerro de los Gitanos/El Mojon/Loma de Huechar (Alhama de Almería, Almería)
 8. Loma de Alicun/Loma de Galera (Alhama de Almería, Almería)
 9. Loma de Belmonte (Mojácar, Almería)
 10. Cueva de Ambrosio (Vélez Blanco, Almería)
 11. Almizaraque (Cuevas de Almanzora, Almería)
 12. Tres Cabezos/Campos (Cuevas de Almanzora, Almería)
 13. Cuartillas (Mojácar, Almería)
-
14. Librilla (Librilla, Murcia)
 15. Campico de Lébor/Juan Climaco (Totana, Murcia)
 16. Parazuelos (Los Curas, Murcia)
 17. Loma de los Peregrinos (Alguazas, Murcia)
 18. Cabezo de la Cueva del Plomo (Mazarrón, Murcia)
 19. Cueva Amador (Cehegin, Murcia)
 20. Dunas de la Almoladeras (Cabo de Palos, Murcia)
 21. El Prado (Jumilla, Murcia)
 22. Cerro del Castillo (Lorca, Murcia)
 23. Pena María (Coy, Murcia)
-
24. El Malagón (Cúllar-Baza, Granada)
 25. Cerro de la Virgen (Orce, Granada)
 26. Los Castillejos (Montefrío, Granada)
 27. Torre Cardela (Torre Cardela, Granada)
 28. Cerro de los Castellones (Laborcillas, Granada)
 29. El Manzanil (Loja, Granada)
 30. Las Angosturas (Gor, Granada)
 31. Cueva de los Murciélagos (Albuñol, Granada)
-

32. Cueva de Nerja (Maro, Málaga)
 33. Cerro de Capellania (Viñuela, Málaga)
 34. La Peña de Hierro (Comares, Málaga)
 35. Cueva de las Palomas (Téba, Málaga)
-

36. Casa de Lara (Salinas, Alicante)

37. Hornos de Segura (Hornos, Jaén)

DISTRIBUTION OF MAJOR COPPER AGE SITES IN SOUTH-EAST SPAIN



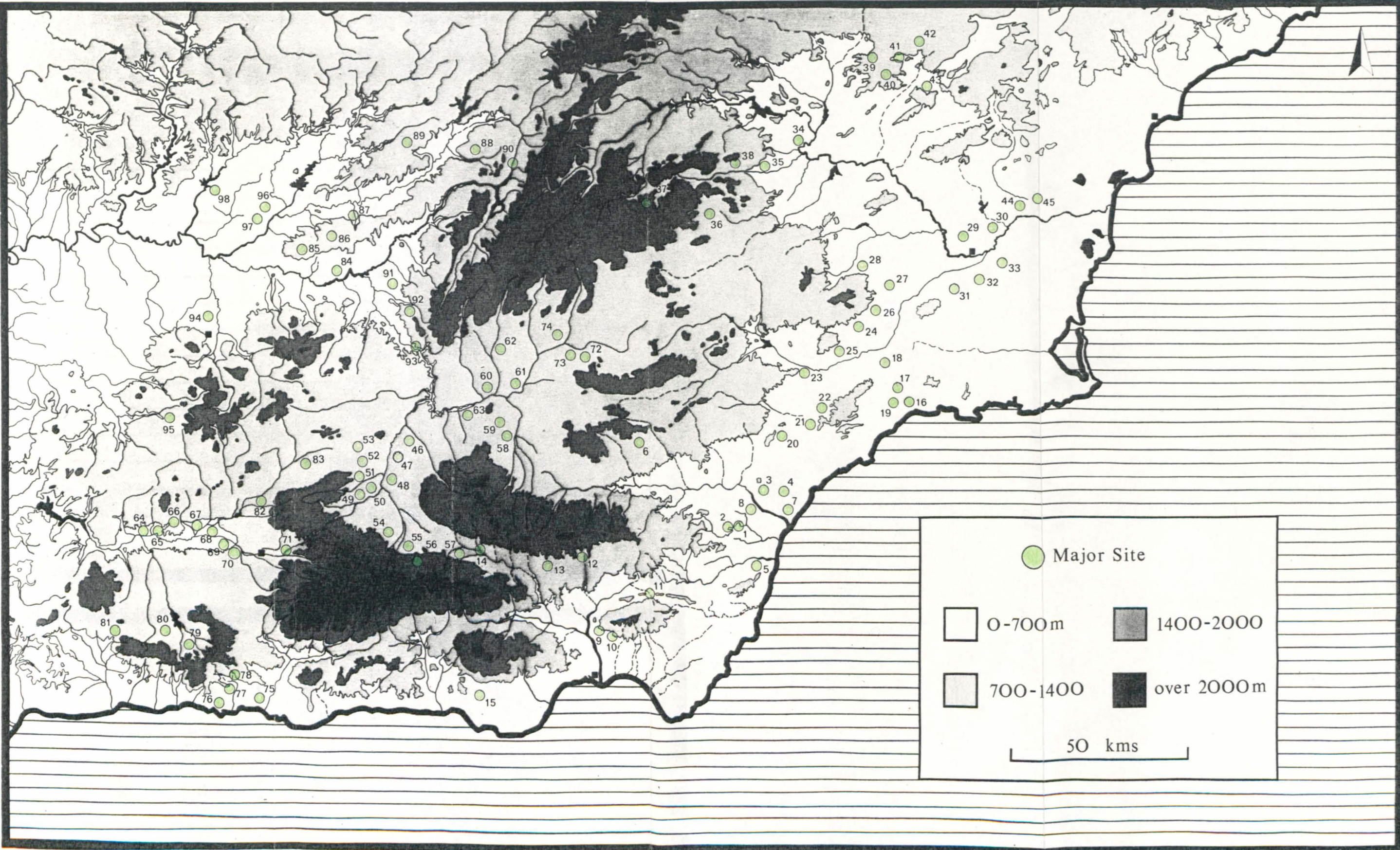
LIST OF BRONZE AGE SITES IN SOUTH-EAST SPAIN: APPENDIX 3.7

-
1. El Argar (Antas, Almería)
 2. Lugarico Viejo/Fuente Vermeja (Antas, Almería)
 3. Fuente Alamo (Cuevas de Almanzora, Almería)
 4. El Oficio (Cuevas de Almanzora, Almería)
 5. Gatas (Turre, Almería)
 6. El Picacho (Oría, Almería)
 7. Almizaraque/Herrerías (Cuevas de Almanzora, Almería)
 8. La Pernera (Antas, Almería)
 9. Cerro del Fuerte (Rioja, Almería)
 10. Cerro de Enmedio (Rioja, Almería)
 11. Peñon de Inox (Turrillas, Almería)
 12. Olula de Castro (Tabernas, Almería)
 13. Hueco de Don Gonzalo (Tabernas, Almería)
 14. Fiñana (Fiñana, Almería)
 15. Egido de Dalías (El Egido, Almería)
-
16. Ifre (Mazarrón, Murcia)
 17. Cabezo Negro (Lorca, Murcia)
 18. La Ceñuela (Lorca, Murcia)
 19. Zapata (Lorca, Murcia)
 20. El Rincon (Almendricos, Murcia)
 21. Cabezo Liron/Cabezo de las Piedras/Cerro del Moro/Pino Real (Lorca, Murcia)
 22. La Capellania de Purias/La Alcanara (Lorca, Murcia)
 23. Lorca (Lorca, Murcia)
 24. La Bastida/Las Anchuras (Totana, Murcia)
 25. La Hoya (La Hoya, Murcia)
 26. Cabezo Gordo (Totana, Murcia)
 27. El Castellar (Librilla, Murcia)
 28. La Almoloya (Pliego, Murcia)
 29. Monteagudo (Murcia, Murcia)
 30. Cobatilla la Vieja (Murcia, Murcia)
 31. Castillo del Puerto de la Cadena/Cerro de Santa Catalina/Fuensanta (Puerto de la Cadena, Murcia)
 32. Puntarrón Chico (El Palmar, Murcia)
 33. Canadas de San Pedro (El Palmar, Murcia)
 34. Cañaverosa (Calaspara, Murcia)
 35. Moratalla la Vieja (Calaspara, Murcia)
 36. Robledillo (Moratalla, Murcia)

37. Peña Jarota (Moratalla, Murcia)
 38. Molata de Fuensanta/Puntal de Cueva de la Higuera (Moratalla, Murcia)
 39. Los Gorgociles del Escabezado (Jumilla, Murcia)
 40. El Morronazo (Jumilla, Murcia)
 41. Cerro de los Tejos/Cerro del Buen Aire/El Portichuelo (Jumilla, Murcia)
 42. Cerrico Conejeric/Morra del Morro (Jumilla, Murcia)
 43. La Calesica (Jumilla, Murcia)
-
44. San Anton (Orihuela, Alicante)
 45. Las Laderas del Castillo (Orihuela, Alicante)
-
46. Cerro del Culantrillo (Gorafe, Granada)
 47. Loma de las Sepulturas (Fonelas, Granada)
 48. Cerro del Gallo/Benalua de Guadix (Benalua de Guadix, Granada)
 49. Cerro de los Grajos (Purullena, Granada)
 50. Cuesta del Negro (Purullena, Granada)
 51. Darro (Darro, Granada)
 52. Huélago (Huélago, Granada)
 53. Los Castellones/Laborcillas (Laborcillas, Granada)
 54. Pago de Al-Rutan (Jeres de Marquesado, Granada)
 55. Canteras de San Pablo (Alquife, Granada)
 56. Aldeire (Aldeire, Granada)
 57. Hueneja (Hueneja, Granada)
 58. Caniles (Caniles, Granada)
 59. Baza (Baza, Granada)
 60. Cortijo de las Términos (Cortes de Baza, Granada)
 61. Benamaurel (Benamaurel, Granada)
 62. Cortes de Baza (Cortez de Baza, Granada)
 63. Freila (Freila, Granada)
 64. Barranco del Moro/Cerro de la Verdeja/Villanueva de Mesia (Villanueva de Mesia, Granada)
 65. La Dehesilla (Villanueva de Mesia, Granada)
 66. Puerto Lopez (Illora, Granada)
 67. Cerro de los Infantes (Pinos Puente, Granada)
 68. El Castillejo/Atarfe (Atarfe, Granada)
 69. Armilla (Armilla, Granada)
 70. Huétor-Vega/Cajar/Cerro de la Encina/Zubia (Huétor-Vega/Monachil, Granada)
 71. Guejar-Sierra (Guejar-Sierra, Granada)
 72. Orce (Orce, Granada)
 73. Cerro de la Virgen (Orce, Granada)

74. Cerro del Villar (Galera, Granada)
 75. El Castillo de la Salobreña (Salobreña, Granada)
 76. Pago de Sapo/La Herradura (La Herradura, Granada)
 77. Cortijo del Tenorio (Jete, Granada)
 78. Repecho de la Tinajilla (Lenteji, Granada)
 79. Mesa de Fornes (Fornes, Granada)
 80. Cerro de los Tajos (Jatar, Granada)
 81. Ventas de Zafarralla (Ventas de Zafarralla, Granada)
 82. Deifontes (Deifontes, Granada)
 83. Cueva de la Carigüela/Cueva de la Pinta (Piñar, Granada)
-
84. Ubeda la Vieja (Ubeda, Jaén)
 85. Baeza (Baeza, Jaén)
 86. Casa de las Abades (Ubeda, Jaén)
 87. Sabiote (Sabiote, Jaén)
 88. Cornicabral (Beas de Segura, Jaén)
 89. Castellar de Sebastian (Castellar de Sebastian, Jaén)
 90. Hornos de Segura (Hornos, Jaén)
 91. Peal de Becerro (Peal de Becerro, Jaén)
 92. Corral de Quinoces/Cerro de la Magdalena (Quesada, Jaén)
 93. Castellones de Ceal (Hinojares, Jaén)
 94. Cueva de Cano Quebrado (Jaén, Jaén)
 95. Castillo de Lucubin/Cueva del Agua de Charilla/Villalobos (Castillo de Lucubin, Jaén)
 96. Mina de Arrayanes (Linares, Jaén)
 97. Linares (Linares, Jaén)
 98. Cerro del Penalosa (Baños de la Encina, Jaén)
-

DISTRIBUTION OF MAJOR BRONZE AGE SITES IN SOUTH-EAST SPAIN



SUMMARY OF CARDIAL IMPRESSED WARE SITES - BY PROVINCE - FOR THE
MEDITERRANEAN REGION OF SPAIN[®]

Province	Cave/Rockshelter	Open Air Site	Total No. of Sites	Km ²
Gerona	1	0	1	5886
Barcelona	13	2	15	7733
Lérida	6	0	6	12,028
Huesca	1	0	1	15,671
Zaragoza	2	0	2	17,194
Tereul	1	0	1	14,804
Tarragona	7	0	7	6283
Castellón	1	0	1	6779
Valencia	11	0	11	10,763
Alicante	10	3	13	5863
Murcia	1	0	1	11,317
Albacete	1	0	1	11,858
Almería	1	0	1	8774
Granada	5	1	6	12,531
Málaga	3	0	3	7276
Total	64	6	70	154,760
% Total	91%	9%	100%	

[®] The following totals of Cardial Impressed Ware sites for these provinces is based on a variety of sources, from site reports to general syntheses. Some of the sites which have been included in lists of Peninsular Cardial sites have been excluded here, either because the attribution of "true" Cardial ware is questionable, or because the overall nature of the assemblage casts doubt on its status as Cardial. In many such cases the only supporting evidence is the reference itself, without illustrations or photographs. Others do not categorically state that it is Cardial Impressed ware, and not simply Impressed Ware, which is present (e.g. the brief reference to the assemblages from Beniel and Jumilla in Murcia by San Valero (1950: 7) said to be similar to Sarsa without further qualification; while concrete support for this claim is still lacking). On the other hand, a number of genuine Cardial sites will, no doubt, have been omitted in trying to cover such a large area. Hence, the figures here should be taken as indicative of only a broad pattern, rather than reflecting detailed variations (e.g. in site density) and relationships, over short distances.

LITHIC MATERIAL FROM CUEVA CHICA - CUEVA DE LOS MURCIÉLAGOS COMPLEX
(ZUHEROS, CÓRDOBA)

	Flake	Blade	Bladelet	Percussor	Undecorated Stone Bracelets	Decorated Stone Bracelets	Polished Stone Axe	Quern ¹
Level III	4	10	7	-	2 (3?)	-	1	1
Level IV	2	8	6	1	2	4	1	2
Level IV-V (Mixed Level)	-	2	-	-	1	1	-	-
Level V	2	1	3	-	1	1	1	-
TOTALS	8	21	16	1	6 (??)	6	3	3

¹ Data not included in the item by item inventory, but instead mentioned in the text (Vicent Zaragoza and Muñoz Amilibia 1973: 84). Hence, these figures may reflect only those items which these authors chose to describe, rather than the total number of these items actually recovered. Also, with regards to the function of these objects, Vicent and Muñoz note that at least one example bears traces of ochre or almagra, suggesting that these objects were not necessarily, or exclusively, used for processing cereals. The high proportion of almagra and other ochre decorated pottery from the site also suggests that these objects may have been frequently employed for preparing decorative pastes.

(Source: Vicent Zaragoza and Muñoz Amilibia 1973: 36-82)

SELECTED FEATURES FROM NEOLITHIC LEVELS AT CUEVA DE LA CARGÜELA
(PIÑAR, GRANADA)

Early Neolithic		Middle Neolithic				Late-Final Neolithic								
XVI	XV	XIV	XIII	XII	XI	X	IX	VIII	VII	VI	V	IV	III	
					●	●		●	●				●	Retouched Blades
	●							●		●				Cores
●	●		●	●		●	●	●	●	●	●		●	Flakes
		●	●											Polished Stone Axes
			●					●	●				●	Polished Stone Adzes
		●	●		●									Slate/Shale Bracelets
			●		●	●	●	●				●		Limestone Bracelets
													●	Stone Idols
		●	●	●	●	●		●	●			●	●	Querns with Ochre Stains
			●	●	●		●	●	●			●	●	Bone Awl
			●		●	●	●				●	●		Bone Spatula
								●						Ostrich Eggshell
		●		●	●								●	Ochre
●		●	●	●		●						●		Hearths
					●	●								Collective Burials
			●	●									●	Individual Burials

(Source: Pellicer Catalán 1964b)

INVENTORY OF SHELL MATERIAL FROM COVA DE LA SARSA (Bocairente, Valencia)

Species	Perforated	Perforated Fragment	Unperforated	Unperforated Fragment
<i>Cypraea lurida</i> L.	9	-	-	1
<i>Columbella rustica</i> L.	111	-	8	-
<i>Cardium edule</i> L.	3	1	4	4
<i>Pectunculus</i>	4	1	-	3
<i>Cyclostoma elegans</i> Müller	1	-	1	-
<i>Bulla</i>	-	-	1	-
<i>Theodoxia fluviatulis</i> L.	6	-	-	-
<i>Nassa incrassata</i> Müller	3	-	-	-
<i>Melanopsis Dufouri</i> Ferussac	2	-	-	-
<i>Ostrea edulis</i> L.	-	-	1	-
<i>Conus</i>	-	-	1	-
<i>Triton nodiferus</i> L.	-	-	-	1
Unidentified (possibly Triton)	-	-	-	3
TOTALS	139	2	16	12

(Source: San Valero Aparisi 1950: 91-92)

FAUNAL REMAINS FROM MIDDLE NEOLITHIC LEVELS AT CUEVA CHICA - CUEVA DE LOS
MURCIÉLAGOS COMPLEX - ZUHEROS, CÓRDOBA¹

Level	Ovis aires	Bos taurus	Sus scrofa	Capra sp.	Oryctolagus cuniculus	Cervus capreolus	Vulpes vulpes	Lepus europaeus	Lizard (lagarto)	Carnivore	Bird	Radiocarbon Dates
IV	22.4% (17)	22.4% (17)	14.5% (11)	23.7% (18)	13.6% (10)	- -	- -	- -	1.3% (1)	1.3% (1)	1.3% (1)	(GrN-6639) 4075 ± 45 b.c. (CSIC-58) 4150 ± 130 b.c. (GrN-6169) 4200 ± 45 b.c. (CSIC-55) 4220 ± 130 b.c. (CSIC-53) 4240 ± 130 b.c. (CSIC-54) 4240 ± 130 b.c.
V	35.4% (17)	20.8% (10)	4.2% (2)	12.5% (6)	20.8% (10)	2.1% (1)	2.1% (1)	2.1% (1)	- -	- -	- -	(CSIC-56) 4010 ± 130 b.c. (CSIC-57) 4030 ± 130 b.c. (GrN-6638) 4300 ± 35 b.c.
TOTALS	27.4% (34)	21.8% (27)	10.5% (13)	19.3% (24)	16.1% (20)	0.8% (1)	0.8% (1)	0.8% (1)	0.8% (1)	0.8% (1)	0.8% (1)	

¹ Faunal remains from Level III are unpublished

(Source: Vicent Zaragoza and Muñoz Amilibia 1973: 99-104)

NON-LITHIC MATERIAL FROM CUEVA CHICA - CUEVA DE LOS MURCIÉLAGOS COMPLEX -
(ZUHEROS, CÓRDOBA)¹

	Boar's Teeth	Bone Point/Rod	Bone Pendant	Ochre	Animal Teeth
Level III	1	2	-	-	-
Level IV	-	2	1	-	-
Levels IV-V	-	-	-	-	1
Level V	-	-	-	1	-
TOTALS	1	4	1	1	1

(Source: Vicent Zaragoza and Muñoz Amilibia 1973: 36-82)

NEOLITHIC AND BRONZE AGE FAUNAL REMAINS FROM CUEVA DE LA CARIGÜELA
(PIÑAR, GRANADA)

		Equus sp.	Bos primigenius	Bos primigenius/taurus	Bos taurus	Ovis aires	Capra hircus	Ovis/Capra	Capra hircus/pyrenaica	Sus domesticus	Sus scrofa	Sus scrofa/domesticus	Cervus elaphus	Cervus/Bos taurus	Canis sp.	Lynx pardina	Felis silvestris	Lepus capensis	Oryctolagus cuniculus
Middle Bronze Age	I	-	-	1	4	9	3	37	-	7	-	-	3	-	7	1	1	7	13
	II	1	-	-	1	1	-	11	-	-	-	-	1	-	7	-	-	5	8
Late-Final Neolithic	III	-	-	-	7	4	-	6	1	2	-	-	1	-	5	-	-	1	10
	IV	-	-	-	1	3	-	2	3	-	-	-	1	-	-	-	-	-	7
	V	1	1	-	8	4	3	9	-	5	1	3	4	-	2	-	1	1	4
	VI	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	VII	-	-	1	1	5	3	9	-	-	-	-	-	-	2	-	-	-	3
	VIII	-	-	-	9	7	-	14	2	10	-	-	3	-	4	-	-	-	7
	IX	-	-	-	-	1	-	1	1	-	-	-	-	-	-	-	-	-	-
	X	-	-	-	6	4	-	6	-	5	-	-	1	-	-	-	-	-	3
Middle Neolithic	XI	1	-	2	26	9	1	34	2	3	-	-	2	-	6	-	-	-	3
	XII	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	XIII	-	-	3	2	10	1	44	1	-	-	22	-	2	-	-	-	-	3
	XIV	1	-	1	11	23	-	24	-	4	-	2	5	-	-	-	-	1	2
	XV	3	-	2	-	14	-	15	1	-	2	1	8	1	-	-	-	1	-
Early Neolithic	XVI	1	-	3	2	5	-	10	-	1	-	-	5	2	-	-	-	-	1

(Source: Pellicer Catalán 1964b)

FLINT MATERIAL FROM LATE AND FINAL NEOLITHIC HORIZONS AT LOS CASTILLEJOS (MONTEFRÍO, GRANADA)

Horizon	Level	Flake	Blade	Scraper	Burin	Trapeze	Arrowhead	Sickle Teeth	Simple Perforator	Simple Truncation	Core
Final Neolithic	VB	28	30	1	-	-	-	-	-	-	1
	VC	10	5	-	-	-	-	-	-	-	2
Late Neolithic	VI - Sur	1	5	-	-	-	-	-	-	-	2
	VI - Norte A	20	35	-	-	1	-	-	1	1	4
	VI - Norte B	1	25	-	-	-	-	-	-	-	3
TOTAL		60	100	1	-	1	-	-	1	1	12

(Source: Arribas and Molina 1978: 118, Figure 16)

LITHIC MATERIAL FROM EL GÁRCEL SETTLEMENT (ANTAS, ALMERÍA)¹

Object	Number	% Total
Retouched Pieces of Quartz	6	0.21%
Flint Cores	145	5.08%
Unretouched Blades	67	2.35%
Retouched Blades/Saws/Points	807	28.26%
Unifacial Points	120	4.20%
Notched Blades	117	4.10%
Burins and Pointed Blades	91	3.19%
Awls	227	7.95%
Backed Bladelets	13	0.45%
Obliquely Retouched Blades	72	2.52%
Rectangular Backed Bladelets	116	4.06%
Side Scrapers	89	3.12%
Discoidal and End Scrapers	77	2.69%
Cleavers	27	0.94%
Crushers	3	0.10%
Trapezes/Triangles	523	18.31%
Microburins	356	12.46%
TOTAL	2856	100.00%

¹ Gossé also lists approximately 8000 flint/quartz flakes

(Sources: Gossé 1941: 82-83)

FLINT TOOLS FROM EARLY COPPER AGE TO EARLY BRONZE AGE LEVELS AT LOS CASTILLEJOS
(MONTEFRÍO, GRANADA)

Phase	Level	Flake	Blade	Scraper	Burin	Simple Truncation	Simple Perforator	Arrowhead	Sickle Teeth	Core	TOTALS
IV (Late-Final Copper Age to Early Bronze Age)	IA	1	1						1		3
	IB	4	2								6
	IC	1	3				1		1		6
	II	4	1	1							6
	III	3	4							1	8
III (Early-Middle Copper Age)	IVA	4	6			1		2			13
	IVB	11	13			1	1	1			27
	VA	41	31	1	2	4	1			4	84
TOTALS		69	61	2	2	6	3	3	2	5	153

(Source: Arribas and Molina 1978: 118, Figure 16)

METAL OBJECTS FROM MAJOR COPPER AGE SETTLEMENTS IN SOUTH-EAST SPAIN

Settlements	Chisel/Projectile Point		Projectile Point	Burin	Point/Awl	Axe	Saw	Blade	Dagger/Knife	Rivet	Non-Descript Object	Crucible	Ore	Slag (Fragments)	Bracelets	Total (of Objects)
	Chisel	Projectile Point														
Terrera Ventura (Tabernas, Almería)					4 ^Δ	1 ^Δ								P ^Δ		5 ^Δ
Los Millares (Santa Fe de Mondújar, Almería)	1 ^Δ				3 ^Δ							P ^Δ		P ^Δ		4 ^Δ
El Gárcel (Antas, Almería)											P ^Δ		P ^Δ			? ^Δ
El Tarajal (Níjar, Almería)					1 ^Δ						P ^Δ					1 ⁺ ^Δ
Campos (Cuevas de Almanzora, Almería)	6 ^Δ				9 ^Δ	2 ^Δ									13 ^O	30 ^{ΔO}
Tres Cabezos (Cuevas de Almanzora, Almería)																70 ^Δ
Almizaraque (Cuevas de Almanzora, Almería)																12 ^Δ
Cerro de las Canteras (Velez Blanco, Almería)				1 ^Δ	7 ^Δ				4 ^Δ				P ^Δ			11 ^Δ
La Gerundia (Antas, Almería)	2 ^Δ	2 ^Δ	3 ^Δ		1 ^Δ					3 ^Δ						11 ^Δ
■ Cuartillas (Turre, Almería)																
Parazuelos (Lorca, Murcia)			2 ^Δ		7 ^Δ			1 ^Δ						P ^Δ		10 ^Δ
■ Campico de Lébor (Totana, Murcia)																
■ El Prado (Jumilla, Murcia)																
Los Castillejos (Montefrío, Granada)	2 ^Δ	1 ^Δ			2 ^Δ			1 ^Δ	1 ^Δ							7 ^Δ
Torre Cardela (Torre Cardela, Granada)					1 ^Δ											1 ^Δ
El Malagón (Cúllar-Baza, Granada)					1 ^Δ		1 ^Δ	1 ^Δ	2 ^Δ					P ^Δ		5 ^Δ
■ Cerro de la Virgen (Orce, Granada)																
■ Cerro de los Castellones (Laborcillas, Granada)																
TOTAL	2 ^Δ	11 ^Δ	6 ^Δ	1 ^Δ	36 ^Δ	3 ^Δ	1 ^Δ	3 ^Δ	7 ^Δ	3 ^Δ	-	-	-	-	13 ^O	86 ^Δ 156

Δ = from domestic area of settlement

O = from burials in settlement

■ = no metal reported

P = present

INVENTORY OF COPPER OBJECTS FROM THE LOS MILLARES CEMETERY (SANTA FE
DE MONDÚJAR, ALMERÍA)

Axe.....	14
Dagger-Knife.....	9
Saw.....	2
Awl/Point.....	28
Chisel.....	5
Tube.....	1
Bracelet.....	6
Spirals.....	1
Rivet.....	1
Blade.....	3
Non-descript Fragments.....	1 ⁺
<hr/>	
TOTAL NUMBER OF OBJECTS	c. 71

TYPES OF DECORATED POTTERY BY LEVEL FOR LATE NEOLITHIC TO EARLY BRONZE
AGE HORIZONS AT LOS CASTILLEJOS (MONTEFRÍO, GRANADA)

		Short Incisions	Incised	Point Impressed	Cordons	Incised-Impressed Rim	Impressed Circles	Fretwork	Pinched	Undulating Lip	Series of Lugs	Coloured Wash	Almagra	Painted	TOTAL
	Level														
PHASE IV	IA		1												1
	IB														0
	IC					4					1				5
	II					5					1				6
	III					1									1
PHASE III	IVA					1									1
	IVB									1					1
	VA	2	3	2	5	1	1	1				3	2	1	21
PHASE II	VB		3		4				1			1	6		15
	VC	2	5		1					1		1	2	1	13
PHASE I	VI South											1	1		2
	VI North A	2	8	2	4	1				2			4		23
	VI North B	4			1					1			1		7
TOTALS		10	20	4	15	13	1	1	1	5	2	6	16	2	96

Phase I = Late Neolithic

Phase II = Final Neolithic

Phase III = Early-Middle Neolithic

Phase IV = Late-Final Copper Age to Early Bronze Age

(Source: Arribas and Molina 1978: 55, Figure 14)

BEAKER VESSELS FROM COPPER AGE SETTLEMENTS AND CEMETERIES IN SOUTH-EAST SPAIN

	Maritime Beaker	Cienpozuelos Beaker	Beaker Type Unknown or Unspecified	TOTALS
Los Castillejos (Montefrío, Granada)		1		1
Torre Cardela (Torre Cardela, Granada)		3	4	7
Los Eriales (Laborcillas, Granada)		1		1
Llano de la Teja (Fonelas, Granada)	1			1
Los Llanillos (Fonelas, Granada)		2		2
'Acci' (Guadix, Granada)	4		4	8
Murgis (El Ejido, Granada)	1			1
Cerro de la Virgen (Orce, Granada)		+		?
Loma de Atalaya (Purchena, Almería)			1	1
Llano de la Atalaya (Purchena, Almería)		2	3	5
Llano del Jautón (Purchena, Almería)		1		1
Terrera Ventura (Tabernas, Almería)	7	24		31
Huéchar (Alhama de Almería, Almería)		1		1
Los Millares (Santa Fe de Mondújar, Almería)	8		6	14
El Barranquete (Níjar, Almería)			1	1
Loma de Belmonte (Mojácar, Almería)	1			1
El Argar (Antas, Almería)		1		1
La Gerundia (Antas, Almería)			1	1
El Gárcel (Antas, Almería)		3		3
Cueva de la Hacha (Vera, Almería)		1	1	2
Almizaraque (Cuevas de Almanzora, Almería)		3	6	9
Province of Almería (without further details)	1			1
Los Blanquizares de Lébor (Totana, Murcia)			1	1
TOTALS	22	44	28	94

+ Present (but number unspecified)

(Source: Harrison 1977)

BOTANICAL DATA FROM COPPER AGE SITES IN SOUTH-EAST SPAIN

	Triticum sp.	Triticum compactum/aestivum	Triticum dicoccum	Hordeum sp.	Hordeum vulgare hexastichum	Hordeum sativum L.	Secale cereale L.	Vicia fava	Lemn sculentia	Flax	Olea europea	Acorns
Almizaraque (Cuevas de Almanzora, Almería)	●	●	●	●	●	●		●		●		
Terrera Ventura (Tabernas, Almería)	●											
El Gárcel (Antas, Almería)							●	●			●	
Los Millares (Santa Fe de Mondújar, Almería)											●	
Campos (Cuevas de Almanzora, Almería)										●		
Los Castillejos (Montefrío, Granada)	●											
Los Castellones (Laborcillas, Granada)	●											
Cueva de Nerja (Maro, Málaga)	●											●
El Prado (Jumilla, Murcia)			●									

(Sources: Siret and Siret 1887; Arribas 1968; Mendoza et. al. 1975; Pellicer Catalán 1963; Walker 1984)

COMPARISON OF MAJOR SPECIES FROM PHASES I-IV (FINAL NEOLITHIC? - LATE COPPER AGE) AT TERRERA VENTURA (TABERNAS, ALMERÍA) - BASED ON (A) NUMBER OF FRAGMENTS AND (B) MINIMUM NUMBER OF INDIVIDUALS

	PHASE I		PHASE II		PHASE III		PHASE IV	
	A	B	A	B	A	B	A	B
<i>Equus caballus</i>	4 0.1%	1 0.4%	- -	- -	4 0.2%	1 0.6%	- -	- -
<i>Bos primigenius</i> & <i>Bos taurus</i>	338 11.2%	17 16.8%	20 9.0%	1 6.0%	213 11.0%	10 7.0%	155 13.0%	6 8.0%
<i>Ovis aires</i> , <i>Capra hircus</i> & <i>Capra pyrenaica</i>	1451 41.8%	66 27.0%	132 60.0%	6 35.5%	820 41.0%	42 28.0%	499 41.5%	19 24.5%
<i>Sus domesticus</i> & <i>Sus scrofa</i>	610 18.0%	27 11.0%	- -	- -	360 18.0%	15 9.8%	229 19.25%	10 13.0%
<i>Cervus elaphus</i>	253 7.5%	13 5.5%	9 4.0%	1 6.0%	160 8.0%	84 7.0%	4 5.0%	4 5.0%
<i>Oryctolagus cuniculus</i> <i>Lepus capensis</i>	664 19.0%	97 39.5%	38 17.3%	6 30.0%	413 21.0%	62 41.6%	213 17.5%	28 37.0%

% TOTALS FOR DOMESTIC VERSUS WILD FAUNA FOR FINAL NEOLITHIC? - LATE
COPPER AGE PHASES (I-IV) AT TERRERA VENTURA (TABERNAS, ALMERÍA)¹

	NO. OF FRAGMENTS		BONE WEIGHTS	
	Domestic	Wild	Domestic	Wild
PHASE I	68.5%	30.1%	42.0%	57.6%
PHASE II	68.9%	21.9%	41.5%	54.0%
PHASE III	67.1%	32.8%	41.6%	57.4%
PHASE IV	71.0%	27.95%	41.6%	57.2%

¹ Based on number of fragments, and bone weights for identified fauna. Residual percentages are unidentified bone fragments.

COMPARISON OF MAJOR SPECIES FROM PHASES V-I (FINAL NEOLITHIC-EARLY BRONZE AGE) AT LOS CASTILLEJOS (MONTEFRÍO, GRANADA) - BASED ON (A) NUMBER OF FRAGMENTS AND (B) MINIMUM NUMBER OF INDIVIDUALS

	PHASE V		PHASE IV		PHASE III		PHASE II		PHASE I	
	A	B	A	B	A	B	A	B	A	B
Equus caballus	5 1.8%	-	-	-	-	-	-	-	-	-
Bos primigenius & Bos taurus	39 13.8%	770 31.0%	16 8.2%	1074 47.0%	6 17.1%	184 34.0%	4 11.1%	89 25.0%	5 8.9%	79 30.0%
Ovis aires, Capra hircus and Capra or Ovis	142 50.0%	724 29.0%	59 31.0%	267 11.0%	12 34.3%	17 47.3%	20 55.6%	66 19.0%	38 68.0%	112 42.0%
Sus domesticus & Sus scrofa	45 15.0%	367 14.0%	60 30.9%	527 23.0%	8 22.8%	43 8.0%	10 27.8%	119 33.0%	5 8.9%	16 6.0%
Cervus elaphus	38 13.4%	569 23.0%	32 16.9%	378 16.0%	4 11.4%	251 47.0%	3 8.3%	80 23.0%	3 5.4%	32 12.0%
Oryctolagus cuniculus & Lepus capensis	6 2.1%	-	13 6.7%	-	2 5.7%	-	1 2.8%	-	-	-

BONE WEIGHTS⁺ FROM LATE NEOLITHIC AND FINAL NEOLITHIC-COPPER AGE
PHASES AT LOS CASTILLEJOS (MONTEFRÍO, GRANADA)

Species	Level VI (Late Neolithic)		Level V (Final Neolithic-Copper Age)	
Bos primigenius	-	-	-	-
Bos taurus	122	29%	770	31%
Bos primigenius or taurus	-	-	15	1%
Ovis aires	15	4%	50	2%
Capra hircus	7	2%	123	5%
Ovis or Capra	200	47%	551	22%
Ovis and Capra (Total)	222	53%	724	29%
Capra pyrenaica	-	-	-	-
Capra pyrenaica or Capra sp.	-	-	10	0%
Cervus elaphus	-	-	569	23%
Cervus elaphus or Bos taurus	14	3%	63	2%
Capreolus capreolus	-	-	-	-
Capreolus capreolus or Ovis/Capra	-	-	4	0%
Sus scrofa	36	8%	80	3%
Sus domesticus	13	3%	231	9%
Sus scrofa or domesticus	18	4%	56	2%
Domestic Animals	357	84%	1725	68%
Wild Animals	36	8%	649	26%

⁺ Value in grams

(Source: Uerpmann, in Arribas and Molina 1978: 156, Table 2)

BONE FRAGMENT COUNTS FROM LATE NEOLITHIC AND FINAL NEOLITHIC-COPPER AGE
PHASES AT LOS CASTILLEJOS (MONTEPRÍO, GRANADA)

Species	Level VI (Late Neolithic)		Level V (Final Neolithic-Copper Age)	
Equus caballus	-	-	5	1.8%
Bos primigenius	-	-	-	-
Bos taurus	6	7.2%	38	13.4%
Bos primigenius or taurus	-	-	1	0.4%
Ovis aires	4	4.8%	6	2.1%
Capra hircus	2	2.4%	15	5.3%
Ovis or Capra	56	67.5%	121	42.6%
Ovis and Capra (Total)	62	74.7%	142	50.0%
Capra pyrenaica	-	-	-	-
Capra pyrenaica or Capra sp.	-	-	1	0.5%
Cervus elaphus	-	-	38	13.4%
Cervus elaphus or Bos taurus	2	2.4%	7	2.5%
Capreolus capreolus	-	-	-	-
Capreolus capreolus or Ovis/Capra	-	-	1	0.4%
Sus scrofa	1	1.2%	3	1.1%
Sus scrofa or domesticus	2	2.4%	4	1.4%
Sus domesticus	3	3.6%	38	13.4%
Oryctolagus tuniculus	7	8.4%	6	2.1%
Domestic Animals	71	89.9%	218	82.3%
Wild Animals	8	10.1%	47	17.7%

(Source: Uerpmann, in Arribas and Molina 1978: 154, Table 1)

% TOTALS FOR DOMESTIC VERSUS WILD FAUNA FOR FINAL NEOLITHIC-EARLY BRONZE
AGE LEVELS (V-I) AT LOS CASTILLEJOS (MONTEPRÍO, GRANADA)¹

	NO. OF FRAGMENTS		BONE WEIGHTS	
	Domestic	Wild	Domestic	Wild
Level V	82.3	17.7	68	6
Level IV	72.7	27.3	54	19
Level III	80.6	19.4	47	6
Level II	80.6	19.4	52	15
Level I	94.0	6.0	78	10

¹ Based on number of fragments, and bone weights for identified fauna. Residual percentages are unidentified bone fragments.

FAUNAL REMAINS FROM COPPER AND BRONZE AGE HORIZONS AT LOS CASTELLONES (LABORCILLAS, GRANADA)

Species	No. of Fragments	%	Min. No. of Indiv.	%
<i>Bos taurus</i>	169	14.9	12	13.5
<i>Ovis aires</i>	56	4.9	11	12.3
Ovis or Capra	563	49.7	7	7.8
<i>Capra hircus</i>	60	5.3	12	13.5
<i>Sus domesticus</i>	154	13.6	16	18.0
<i>Canis familiaris</i>	23	2.0	4	4.5
<i>Cervus elaphus</i>	10	0.09	3	3.4
<i>Capreolus capreolus</i>	2	0.17	2	2.2
<i>Capra pyrenaica</i>	1	0.08	1	1.1
<i>Sus scrofa</i>	1	0.08	1	1.1
<i>Felis silvestres</i>	1	0.08	1	1.1
<i>Oryctolagus cuniculus</i>	84	7.4	16	8.0
<i>Ovis tarda</i>	1	0.08	1	1.1
<i>Lepus capensis</i>	7	0.6	2	2.2
TOTALS	1132		89	

(Source: Driesch and Kokabi 1977: 130, Table 1)

RAW MATERIALS FROM COPPER AGE CEMETERIES IN SOUTH-EAST SPAIN

Amber

Flint

Gypsum

Asbestos

Ochre

Talc

Quartz/Quartzite

Alabaster

Ostrich Eggshell

Ivory

Bronze/Copper

Gold

Antler

Fish Vertebrae

Shell (Terrestrial, Freshwater, Marine)

Animal Teeth

Animal Bone

Plain and Decorated Pottery

Jet

Polished Stone

Ground Stone

Vitreous Paste

(Sources: Leisner and Leisner 1943; Siret and Siret 1887;
Almagro Basch and Arribas 1963; García Sánchez and
Spahni 1959)

INVENTORY OF FLINT AND QUARTZ MATERIAL FROM LA BASTIDA (TOTANA, MURCIA)

Flint Blade (with prepared platform).....	7
Flint Blade (with unprepared platform).....	16
Flint 'Saw' (Serrated Blade).....	2
Pointed Flint Bladelet and Flake ('Lanza').....	2
Atypical Flint Flakes.....	17
Quartz Blade and Flake.....	2
Atypical Quartz Flakes.....	1 ⁺
<hr/> <hr/>	
TOTALS	46 ⁺
<hr/> <hr/>	

⁺ The number of quartz flakes was not specified, but the excavator's description suggests that there was more than one.

(Source: Martínez Santa Olalla et. al. 1947: 61-64, 66)

BOTANICAL REMAINS FROM ARGARIC SITES IN SOUTH-EAST SPAIN

	<i>Triticum sphaerococcum</i>	<i>Triticum aestivum</i> L.	<i>Triticum</i> sp.	<i>Hordeum sativum</i>	<i>Hordeum</i> sp.	<i>Cicer arietinum</i>	<i>Stipa tenacissima</i>	Pea	Flax	Olive	Legumes	Carob	Acorn
Zapata (Lorca, Murcia)	●								●				
La Hoya (Lorca, Murcia)					●								
La Bastida (Totana, Murcia)			●		●								
Cabezo de las Viñas (Coy, Murcia)			●										●
Fuente Vermeja (Antas, Almería)	●				●		●						
Lugarico Viejo (Antas, Almería)		●		●		●	●				●		
El Argar (Antas, Almería)		●		●		●	●	●	●		●		
El Oficio (Cuevas de Almanzora, Almería)			●		●				●				
Cerro del Culantrillo (Gorafe, Granada)									●				
Cerro de la Penalosa (Baños de la Encina, Jaén)			●										

(Sources: Arribas 1968: 42-44; Martínez Santa Olalla et. al. 1947: 77; Ayala Juan 1979-1980: 79-80; Lull 1984: 1202)

AGE DISTRIBUTION DATA FOR HORSE REMAINS FROM LATE ARGARIC LEVELS
(PHASES IIa & IIb) AT CERRO DE LA ENCINA (MONACHIL, GRANADA)

Individuals less than 2 years old.....	20%
Individuals between 2 and 4 years old.....	15%
Individuals between 4 and 10 years old.....	15%
Individuals between 10 and 15 years old.....	30%
Individuals more than 15 years old.....	20%

(Source: Driesch, in Arribas and Molina 1974: 156)

COMPARISON OF CATTLE REMAINS FROM COPPER AND BRONZE AGE HORIZONS
IN SOUTH-EAST SPAIN

Site/Phase	Bone Weight	No. of Frag.	MNI	Period
Terrera Ventura (II)	-	9.0%	6.0%	Final Neolithic/CA
Terrera Ventura (III)	-	11.0%	7.0%	Early CA
Terrera Ventura (IV)	-	13.0%	8.0%	Late CA
Los Castillejos (V)	31.0%	13.8%	-	Early CA
Los Castillejos (IV)	47.0%	8.2%	-	Early CA/Middle CA
Los Castillejos (III)	34.0%	17.1%	-	Late CA
Los Castillejos (II)	25.0%	11.1%	-	Final CA
Los Castillejos (I)	30.0%	8.9%	-	Final CA/Early BA
Los Castellones (?)	-	14.9%	13.5	CA/BA
Cerro de la Virgen (II)	34.0	16.3%	14.7%	Beaker
Cerro de la Virgen (II/III)	39.3%	19.8%	14.2%	Beaker/Early BA
Cerro de la Virgen (III)	32.0%	22.2%	18.2%	Early BA/Middle BA
Cerro de la Encina (I)	41.1%	16.8%	14.3%	Early MBA
Cerro de la Encina (IIa)	23.0%	16.0%	7.3%	Late MBA
Cerro de la Encina (IIb)	11.0%	12.6%	8.3%	Final MBA
Cerro de la Encina (LBA)	33.2%	22.7%	7.9%	Post-Argaric LBA
Cuesta del Negro (I/II)	65.6%	37.2%	22.6%	Early BA
Cuesta del Negro (III/IV)	71.1%	46.5%	29.4%	Early BA
Cuesta del Negro (LBA)	66.2%	39.1%	24.3%	Post-Argaric LBA

(Sources: Driesch (1972: 142, Table 48); Lauk (1976: 96-99, Tables 55-56, Diagrams 6 and 7); Uerpmann, in Arribas and Molina (1978: 154, Table 1, 156, Table 2); Driesch and Morales (1977: 18-20); Driesch and Kokabi (1977: 130, Table 1))

COMPARISON OF HORSE REMAINS FROM COPPER AND BRONZE AGE HORIZONS
IN SOUTH-EAST SPAIN

Site/Phase	Bone Weight	No. of Frag.	MNI	Period
Terrera Ventura (II)	-	-	-	Final Neolithic/CA
Terrera Ventura (III)	-	-	-	Early CA
Terrera Ventura (IV)	-	-	-	Late CA
Los Castillejos (V)	-	1.8%	-	Early CA
Los Castillejos (IV)	-	-	-	Early CA/Middle CA
Los Castillejos (III)	-	-	-	Late CA
Los Castillejos (II)	-	-	-	Final CA
Los Castillejos (I)	-	-	-	Final CA/Early BA
Cerro de los Castellones (?)	-	-	-	CA/BA
Cerro de la Virgen (II)	16.5%	5.1%	2.9%	Beaker
Cerro de la Virgen (II/III)	27.9%	7.6%	4.4%	Beaker/Early BA
Cerro de la Virgen (III)	28.7%	9.1%	7.1%	Early BA/Middle BA
Cerro de la Encina (I)	6.5%	0.9%	7.1%	Early MBA
Cerro de la Encina (IIa)	31.9%	10.8%	11.6%	Late MBA
Cerro de la Encina (IIb)	79.0%	51.9%	27.4%	Final MBA
Cerro de la Encina (LBA)	35.6%	13.2%	14.5%	Post-Argaric LBA
Cuesta del Negro (I/II)	3.5%	0.7%	2.4%	Early BA
Cuesta del Negro (III/IV)	4.2%	1.5%	3.9%	Early BA
Cuesta del Negro (LBA)	12.8%	4.3%	2.8%	Post-Argaric LBA

(Sources: Driesch (1972: 142, Table 48); Lauk (1976: 96-99, Tables 55-56, Diagrams 6 and 7); Uerpmann, in Arribas and Molina (1978: 154, Table 1, 156, Table 2); Driesch and Morales (1977: 18-20); Driesch and Kokabi (1977: 130, Table 1))

COMPARISON OF SHEEP/GOAT REMAINS FROM COPPER AND BRONZE AGE HORIZONS IN
SOUTH-EAST SPAIN

Site/Phase	Bone Weight	No. of Frag.	MNI	Period
Terrera Ventura (II)	-	60.0%	30.0%	Final Neolithic
Terrera Ventura (III)	-	39.5%	25.5%	Early CA
Terrera Ventura (IV)	-	40.0%	22.5%	Late CA
Los Castillejos (V)	29.0%	50.0%	-	Early CA
Los Castillejos (IV)	11.0%	30.5%	-	Early CA/Middle CA
Los Castillejos (III)	14.0%	34.3%	-	Late CA
Los Castillejos (II)	19.0%	47.3%	-	Final CA
Los Castillejos (I)	42.0%	66.2%	-	Final CA/Early BA
Cerro de los Castellones (?)	-	60.0%	33.7%	CA/BA
Cerro de la Virgen (II)	27.1%	59.7%	70.3%	Beaker
Cerro de la Virgen (II/III)	22.8%	59.4%	70.6%	Beaker/Early BA
Cerro de la Virgen (III)	21.8%	55.8%	66.7%	Early BA/Middle BA
Cerro de la Encina (I)	38.9%	62.7%	42.9%	Early MBA
Cerro de la Encina (IIa)	24.4%	47.7%	50.7%	Late MBA
Cerro de la Encina (IIb)	6.1%	26.0%	41.7%	Final BA
Cerro de la Encina (LBA)	15.4%	41.4%	45.2%	Post-Argaric LBA
Cuesta del Negro (I/II)	15.3%	39.3%	47.1%	Early BA
Cuesta del Negro (III/IV)	15.9%	42.0%	45.1%	Early BA
Cuesta del Negro (LBA)	14.1%	44.9%	51.3%	Post-Argaric LBA

(Sources: Driesch (1972: 142, Table 48); Lauk (1976: 96-99, Tables 55-56, Diagrams 6 and 7); Uerpman, in Arribas and Molina (1978: 154, Table 1, 156, Table 2); Driesch and Morales (1977: 18-20); Driesch and Kokabi (1977: 130, Table 1))

FAUNAL REMAINS FROM ARGARIC AND LATE BRONZE AGE LEVELS FROM CERRO DE LA ENCINA (MONACHIL, GRANADA)¹

	ARGARIC				LATE BRONZE AGE		
	I	IIa	IIb	Total	III	IV	Total
Equus caballus	3 (0.86%)	309 (9.58%)	1697 (45.13%)	2023 (24.91%)	195 (12.07%)	2 (0.45%)	199 (9.17%)
Bos taurus	54 (15.42%)	461 (14.29%)	411 (10.93%)	1067 (13.14%)	336 (20.79%)	109 (24.72%)	468 (21.56%)
Ovis aires	18 (5.14%)	129 (4.00%)	60 (1.60%)	245 (3.02%)	57 (3.53%)	25 (5.67%)	86 (3.96%)
Capra hircus	8 (2.29%)	30 (0.93%)	29 (0.77%)	70 (0.86%)	43 (2.66%)	26 (5.90%)	77 (3.55%)
Ovis or Capra	176 (50.28%)	1197 (37.10%)	750 (19.94%)	2414 (29.73%)	606 (37.50%)	197 (44.67%)	852 (39.24%)
Sus domesticus	60 (17.14%)	650 (20.15%)	219 (5.82%)	1138 (14.01%)	167 (10.33%)	41 (9.30%)	224 (10.32%)
Canis familiaris	9 (2.57%)	98 (3.04%)	89 (2.37%)	222 (2.73%)	15 (0.93%)	4 (0.90%)	21 (0.97%)
Cervus elaphus	1 (0.29%)	40 (1.24%)	66 (1.76%)	115 (1.42%)	52 (3.22%)	10 (2.27%)	67 (3.09%)
Capra pyrenaica	- (-)	14 (0.43%)	11 (0.29%)	29 (0.35%)	8 (0.49%)	4 (0.90%)	12 (0.55%)
Sus scrofa	2 (0.57%)	44 (1.36%)	30 (0.80%)	83 (1.02%)	18 (1.11%)	17 (3.85%)	38 (1.75%)
Lynx pardina	4 (1.14%)	17 (0.52%)	62 (1.65%)	85 (1.05%)	14 (0.87%)	1 (0.23%)	15 (0.69%)
Oryctolagus cuniculus	13 (3.71%)	212 (6.57%)	317 (8.43%)	578 (7.12%)	96 (5.94%)	3 (0.68%)	100 (4.61%)

¹ Based on the number of fragments, and includes only those species which are best represented numerically. The percentages for individual species, cited here, are based on the total number of fragments for domestic and wild fauna. Therefore, because some species have been excluded from this table, the percentage figures above are not equal to 100%. Also, following Lauk (1976) wildfowl and shellfish have not been included in these percentages.

(Source: Lauk 1976 6-7, Table 1)

FAUNAL REMAINS FROM ARGARIC AND LATE BRONZE AGE LEVELS FROM CERRO DE LA ENCINA (MONACHIL, GRANADA)¹

	ARGARIC				LATE BRONZE AGE		
	I	IIa	IIb	Total	III	IV	Total
Equus caballus	1 (7.1%)	8 (11.6%)	23 (27.4%)	32 (18.5%)	9 (14.5%)	1 (3.9%)	10 (11.0%)
Bos taurus	2 (14.3%)	5 (7.3%)	7 (8.3%)	15 (8.7%)	5 (7.9%)	3 (11.5%)	10 (11.0%)
Ovis aires/Capra hircus & ibex	6 (42.9%)	35 (50.7%)	35 (41.7%)	82 (47.4%)	29 (46.0%)	16 (61.5%)	45 (49.5%)
Sus domesticus & scrofa	4 (28.6%)	19 (27.5%)	15 (17.9%)	37 (21.4%)	16 (25.4%)	5 (19.2%)	21 (23.1%)
Cervus elaphus	1 (7.1%)	2 (2.9%)	4 (4.8%)	7 (4.1%)	4 (6.4%)	1 (3.9%)	5 (5.5%)

¹ Based on minimum number of individuals, which have only been calculated for the species listed above.

(Source: Lauk 1976: 96, Table 55)

% TOTALS FOR DOMESTIC VERSUS WILD FAUNA FOR ARGARIC AND LATE BRONZE AGE LEVELS (c. 1400-700 b.c.) AT CERRO DE LA ENCINA (MONACHIL, GRANADA)

	NO. OF FRAGMENTS		MINIMUM NO. OF INDIVIDUALS	
	Domestic	Wild	Domestic	Wild
PHASE I ('Early Argar B')	-	-	-	-
PHASE IIa ('Late Argar B')	91.5%	8.5%	70.0%	29.9%
PHASE IIb ('Final Argar B')	93.7%	6.3%	72.4%	27.5%
PHASE III (Late Bronze Age)	93.9%	6.1%	73.6%	26.4%

(Source: Dreisch, in Arribas et. al. 1974: 153, Table 1)

FAUNAL REMAINS FROM ARGARIC AND LATE BRONZE AGE LEVELS FROM CUESTA DEL NEGRO (PURULLENA, GRANADA)¹

	ARGARIC			LATE BRONZE AGE
	I and II	III and IV	Total	Total
Equus caballus	2 (2.4%)	2 (3.9%)	4 (2.8%)	7 (3.7%)
Bos taurus	19 (22.6%)	15 (29.4%)	35 (24.3%)	35 (18.5%)
Ovis aires/Capra hircus & ibex	38 (45.2%)	24 (47.1%)	5 (45.1%)	97 (51.3%)
Sus domesticus & scrofa	22 (26.2%)	8 (15.7%)	35 (24.3%)	41 (21.7%)
Cervus elaphus	3 (3.6%)	2 (3.9%)	5 (3.5%)	9 (4.8%)

¹ Based on minimum number of individuals, which have only been calculated for the species listed above.

(Source: Leuk 1976: 97, Table 56)

FAUNAL REMAINS FROM ARGARIC AND LATE BRONZE AGE LEVELS FROM CUESTA DEL NEGRO (PURULLENA, GRANADA)¹

	ARGARIC			LATE BRONZE AGE
	I and II	III and IV	Total	Total
Equus caballus	17 (0.69%)	21 (1.45%)	50 (1.10%)	303 (4.00%)
Bos taurus	860 (35.06%)	636 (43.92%)	1678 (36.94%)	2219 (29.32%)
Ovis aires	71 (2.89%)	48 (3.31%)	163 (3.59%)	239 (3.16%)
Capra hircus	87 (3.55%)	48 (3.31%)	157 (3.46%)	174 (2.30%)
Ovis or Capra	798 (32.53%)	439 (30.32%)	1476 (32.50%)	2701 (35.69%)
Sus domesticus	453 (18.47%)	141 (9.74%)	687 (15.12%)	973 (12.86%)
Canis familiaris	43 (1.75%)	25 (1.73%)	84 (1.85%)	220 (2.91%)
Cervus elaphus	22 (0.90%)	31 (2.14%)	66 (1.45%)	291 (3.84%)
Capra pyrenaica	- (-)	3 (0.21%)	4 (0.09%)	20 (0.26%)
Sus scrofa	5 (0.20%)	2 (0.14%)	10 (0.22%)	57 (0.75%)
Lynx pardina	3 (0.12%)	3 (0.21%)	8 (0.18%)	17 (0.22%)
Oryctolagus cuniculus	91 (3.71%)	47 (3.24%)	152 (3.35%)	334 (4.41%)

¹ Based on the number of fragments, and includes only those species which are best represented numerically. The percentages for individual species, cited here, are based on the total number of fragments for domestic and wild fauna. Therefore, because some species have been excluded from this table, the percentage figures above are not equal to 100%.

(Source: Leuk 1976: 6-7 Table 1)

% TOTALS FOR DOMESTIC VERSUS WILD FAUNA FOR ARGARIC AND LATE
BRONZE AGE LEVELS AT CUESTA DEL NEGRO (PURULLENA, GRANADA)

	NO. OF FRAGMENTS	
	Domestic	Wild
PHASES I & II ⁺	94.8%	5.0%
PHASES III & IV ⁺⁺	93.7%	6.2%
LATE BRONZE AGE	90.2%	9.7%

+ = Argaric ++ = Argaric

(Source: Lauk 1976: 8, Table 2)

FAUNAL REMAINS FROM BEAKER AND ARGARIC LEVELS (c. 2000-1200 b.c.) FROM CERRO DE LA VIRGEN (ORCE, GRANADA)¹

	BEAKER		BEAKER/ ARGARIC		ARGARIC		Total
	II		II/III		III		
<i>Equus caballus</i>	12 (2.5%)		3 (4.4%)		10 (7.1%)		25 (4.0%)
<i>Bos taurus</i>	43 (10.5%)		10 (14.7%)		20 (14.2%)		73 (11.6%)
<i>Ovis aires/Capra hircus & ibex</i>	289 (70.3)		48 (70.6%)		94 (66.7%)		431 (69.5%)
<i>Sus domesticus & scrofa</i>	67 (16.3%)		7 (10.5%)		17 (12.1%)		91 (14.7%)

¹ Based on minimum number of individuals, which have only been calculated for the species listed above.

(Source: Driessch 1972: 142, Table 48)

FAUNAL REMAINS FROM BEAKER AND ARGARIC LEVELS (c. 2000-1200 b.c.)
FROM CERRO DE LA VIRGEN (ORCE, GRANADA)¹

	II	II/III	III	Total
<i>Equus caballus</i>	1061 (4.32%)	204 (6.76%)	519 (8.07%)	1784 (5.29%)
<i>Bos taurus</i>	3341 (13.61%)	428 (14.19%)	1119 (17.39%)	4888 (14.37%)
<i>Ovis aires</i>	1654 (6.74%)	196 (6.50%)	400 (6.22%)	2250 (6.62%)
<i>Capra hircus</i>	678 (2.76%)	100 (3.32%)	219 (3.40%)	997 (2.93%)
<i>Ovis or Capra</i>	9921 (40.42%)	1275 (42.27%)	2518 (39.14%)	13714 (40.34%)
<i>Sus domesticus</i>	3837 (15.63%)	441 (14.62%)	899 (13.35%)	5137 (15.11%)
<i>Canis familiaris</i>	42 (0.17%)	15 (0.50%)	44 (0.68%)	101 (0.30%)
<i>Cervus elaphus</i>	557 (2.27%)	81 (2.69%)	160 (2.49%)	798 (2.34%)
<i>Bos primigenius</i>	18 (0.07%)	9 (0.30%)	6 (0.09%)	33 (0.10%)
<i>Capra pyrenaica</i>	95 (0.39%)	20 (0.66%)	39 (0.61%)	154 (0.45%)
<i>Sus scrofa</i>	53 (0.22%)	6 (0.20%)	12 (0.19%)	71 (0.21%)
<i>Sus domesticus & scrofa</i>	11 (0.04%)	-	3 (0.05%)	14 (0.04%)
<i>Lynx pardina</i>	20 (0.08%)	4 (0.13%)	14 (0.22%)	38 (0.11%)
<i>Lepus capensis</i>	17 (0.07%)	1 (0.03%)	3 (0.05%)	21 (0.06%)
<i>Oryctolagus cuniculus</i>	3213 (13.09%)	233 (7.72%)	497 (7.73%)	3943 (11.60%)
<i>Muridae</i>	19 (0.08%)	-	16 (0.25%)	35 (0.10%)

¹ Based on the number of fragments.

% TOTALS FOR DOMESTIC VERSUS WILD FAUNA FOR BEAKER AND ARGARIC
LEVELS (c. 2000-1200 b.c.) AT CERRO DE LA VIRGEN (ORCE, GRANADA)

NO. OF FRAGMENTS

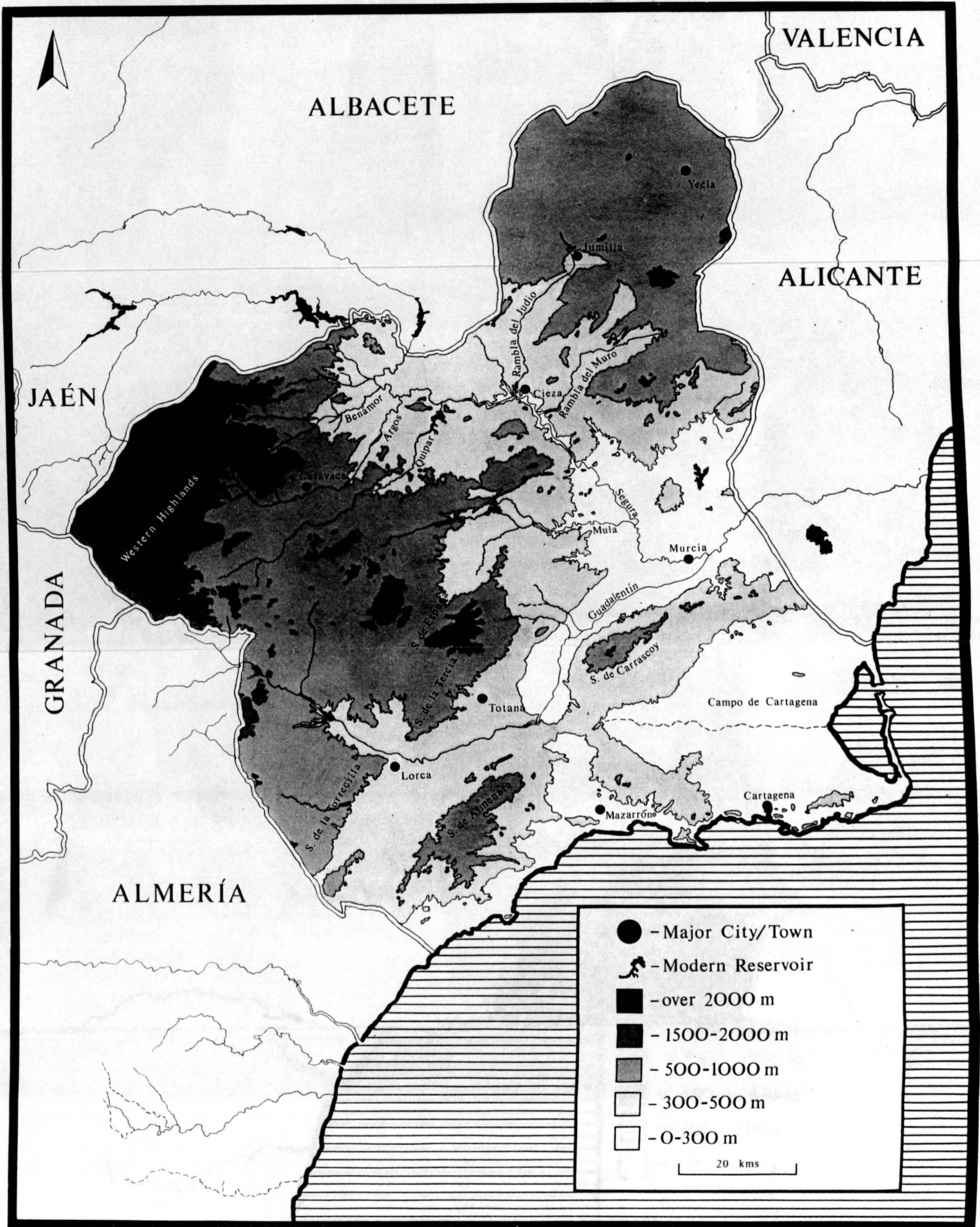
	Domestic	Wild
PHASE II (Beaker)	83.5%	16.5%
PHASE II/III (Beaker-Argaric Transition)	88.2%	11.8%
PHASE III (Argaric)	88.5%	11.5%

(Source: Dreisch 1973: 10, Table 2)

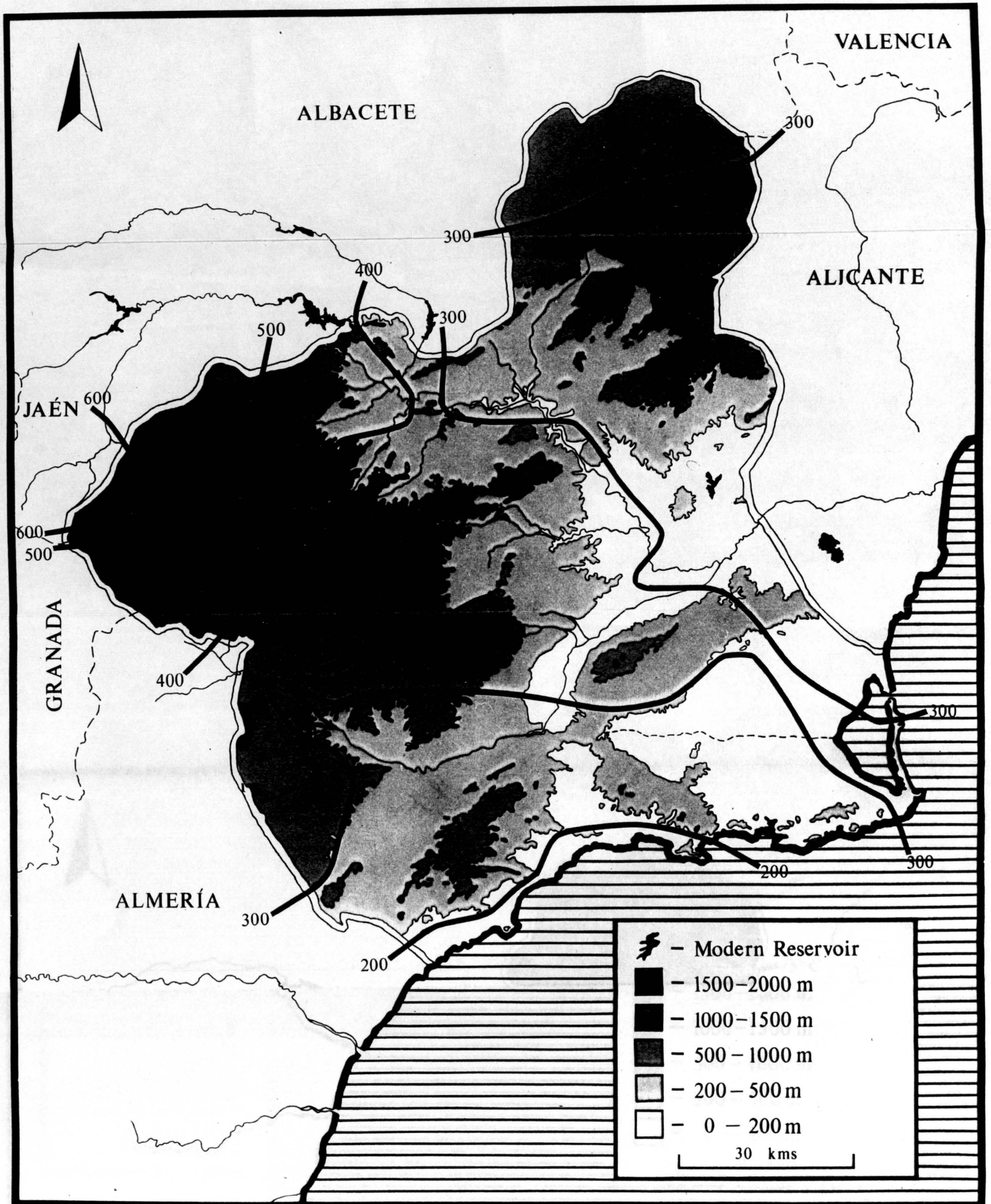
DIFFERENCES IN MORTUARY PRACTICES BETWEEN COPPER AGE AND BRONZE
AGE COMMUNITIES IN SOUTH-EAST SPAIN

Copper Age	Bronze Age
Body Treatment	
Partial Cremation, Full Articulation, Defleshing, Complete Disarticulation, Fragmentation	Full Articulation
Tomb Types	
Rockshelters, Artificial and Natural Caves, Rock Fissures, Variety of Megalithic Tombs	Artificial shelters, Cists, Urns/Pithoi
Tomb Location	
Outside Settlement and Distinct from it	Within Settlement and Indistinguishable from it
Tomb Visibility	
Tomb or Burial Area Visible Above Ground Following Interment	Tombs Invisible on Surface after burial
Tomb Construction	
Variety of Sizes, Ground Plans, Internal and External Features, Construction Techniques and Building Materials also Widely Variable	Construction Techniques, Size and Plan Relatively Uniform. Internal and External Features Absent, Limited Range of Building Materials
Grave Goods	
Tremendous Diversity in the Types of Raw Materials, Form and Decoration of Objects, Combinations of Materials, and Artefacts	Considerable Uniformity in Raw Materials. Little or No Decorated Material. Standardization of Artefacts and Combinations of Objects

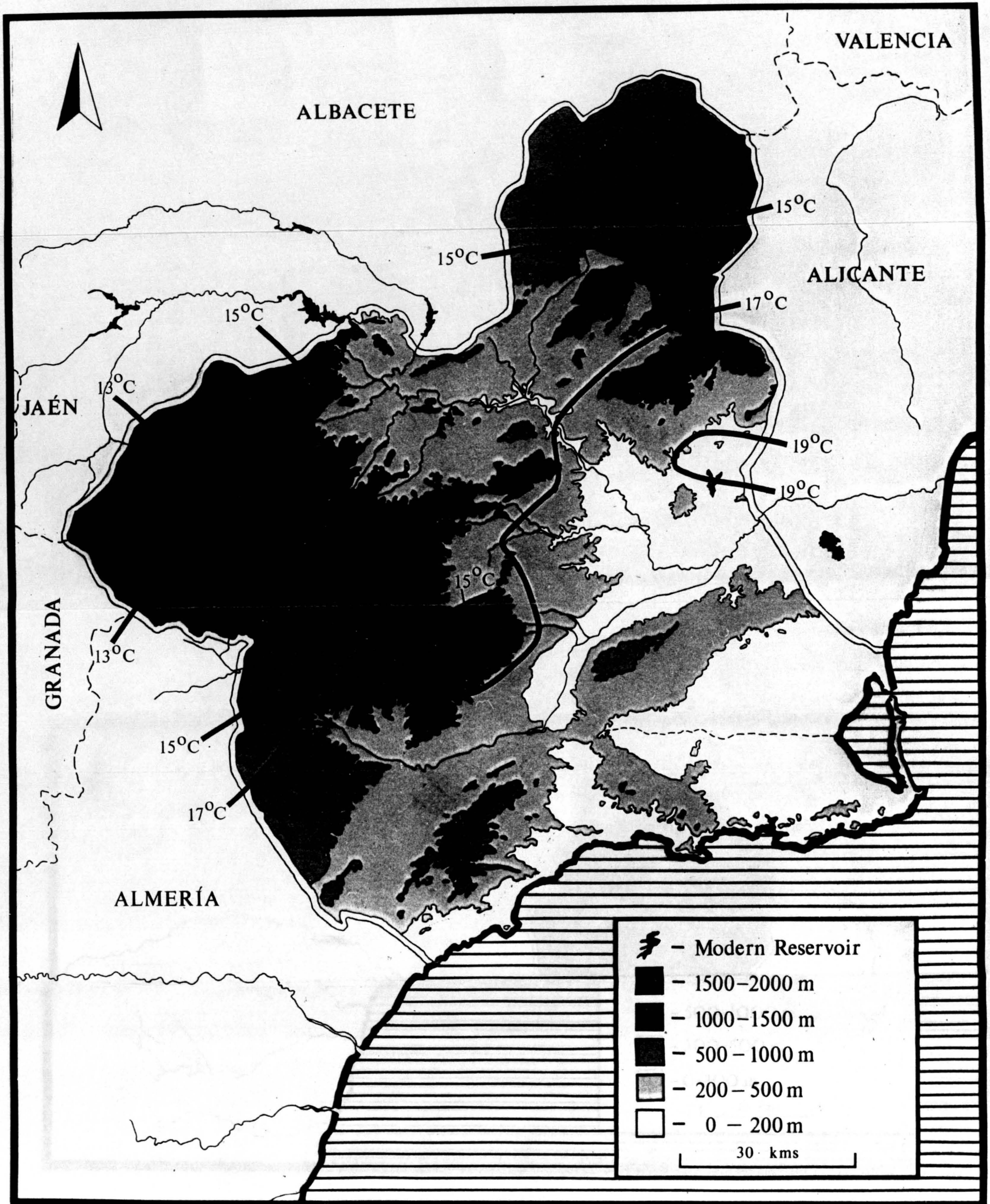
Topographic Relief in the Province of Murcia



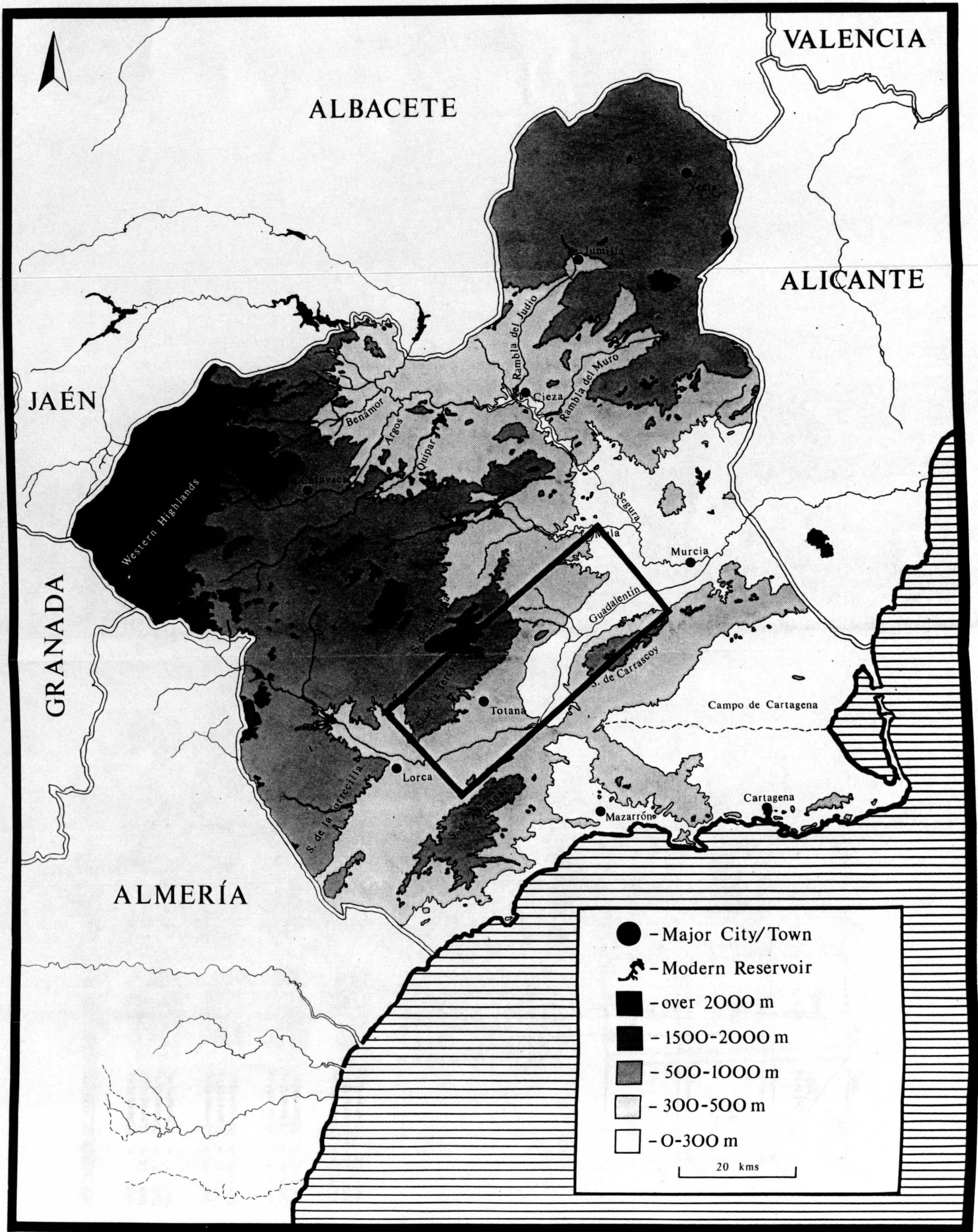
Average Annual Precipitation in the Province of Murcia



Average Annual Temperatures in the Province of Murcia



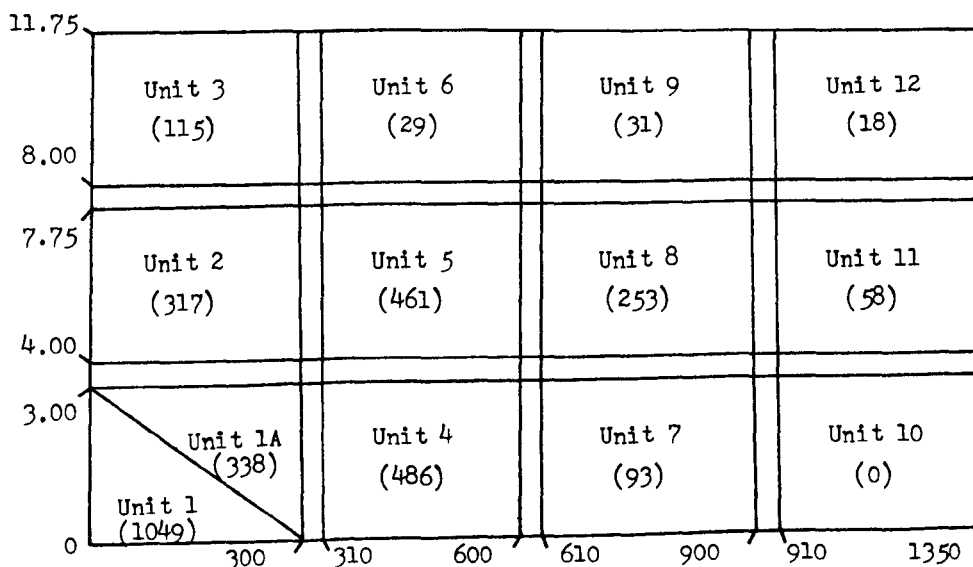
Relief Map of the Province of Murcia Showing Survey Area



DEFINITION OF SAMPLING STRATA USED IN GUADALENTÍN SURVEY

Unit 1 = Dissection	<u>0 - 1.75</u>	Height	<u>0 - 300 m</u>	<u>1049</u>
Unit 1A = Dissection	<u>0 - 1.75</u>	Height	<u>0 - 300 m</u>	<u>338</u>
Unit 2 = Dissection	<u>2.00 - 3.75</u>	Height	<u>0 - 300 m</u>	<u>317</u>
Unit 3 = Dissection	<u>4.00 - 7.75</u>	Height	<u>0 - 300 m</u>	<u>115</u>
Unit 4 = Dissection	<u>0 - 3.75</u>	Height	<u>310 - 600 m</u>	<u>486</u>
Unit 5 = Dissection	<u>4.00 - 7.75</u>	Height	<u>310 - 600 m</u>	<u>461</u>
Unit 6 = Dissection	<u>8.00 - 11.75</u>	Height	<u>310 - 600 m</u>	<u>29</u>
Unit 7 = Dissection	<u>0 - 3.75</u>	Height	<u>610 - 900 m</u>	<u>93</u>
Unit 8 = Dissection	<u>4.00 - 7.75</u>	Height	<u>610 - 900 m</u>	<u>253</u>
Unit 9 = Dissection	<u>8.00 - 11.75</u>	Height	<u>610 - 900 m</u>	<u>31</u>
Unit 10 = Dissection	<u>0 - 3.75</u>	Height	<u>910 - 1350 m</u>	<u>0</u>
Unit 11 = Dissection	<u>4.00 - 7.75</u>	Height	<u>910 - 1350 m</u>	<u>58</u>
Unit 12 = Dissection	<u>8.00 - 11.75</u>	Height	<u>910 - 1350 m</u>	<u>18</u>

% of Unit 1 =	<u>32.30</u>	<u>(32)</u>
% of Unit 1A =	<u>10.41</u>	<u>(10)</u>
% of Unit 2 =	<u>9.76</u>	<u>(10)</u>
% of Unit 3 =	<u>3.54</u>	<u>(4)</u>
% of Unit 4 =	<u>14.96</u>	<u>(15)</u>
% of Unit 5 =	<u>14.19</u>	<u>(14)</u>
% of Unit 6 =	<u>0.89</u>	<u>(1)</u>
% of Unit 7 =	<u>2.86</u>	<u>(3)</u>
% of Unit 8 =	<u>7.79</u>	<u>(8)</u>
% of Unit 9 =	<u>0.95</u>	<u>(1)</u>
% of Unit 10 =	<u>-</u>	<u>(0)</u>
% of Unit 11 =	<u>1.79</u>	<u>(2)</u>
% of Unit 12 =	<u>0.55</u>	<u>(1)</u>



DEFINITION OF SAMPLING STRATA IN SURVEY AREA - FINAL CATEGORIES

TIER	STRATUM	HEIGHT	DISSECTION
ONE	1	0 - 300 m	0 - 1.75
	1A	0 - 300 m	0 - 1.75
	2	0 - 300 m	2.00 - 3.75
	3	0 - 300 m	4.00 - 7.75
TWO	4	310 - 600 m	0 - 3.75
	5	310 - 600 m	4.00 - 7.75
	6	310 - 600 m	8.00 - 11.75
THREE	7	610 - 900 m	0 - 3.75
	8	610 - 900 m	4.00 - 7.75
	9	610 - 900 m	8.00 - 11.75
FOUR	11	over 900 m	4.00 - 7.75
	12	over 900 m	8.00 - 11.75

FACSIMILE OF FIELD RECORDING SHEET USED IN GUADALENTIN SURVEY

(FRONT)

FIELD RECORDING SHEET MURCIA SURVEY (1982-83)

Field Number _____ Survey Square Number _____ Field Size _____
 1:50,000 Sheet _____ Date _____ Visibility _____
 Coordinates _____ Ref. Site Sheet _____ Site(s) _____

<u>Land Use</u>		<u>Field Conditions</u>	<u>Soil Conditions</u>	<u>Ground Cover</u>
<input type="checkbox"/> Scrub Woodland	<input type="checkbox"/> Olive	<input type="checkbox"/> Ploughed	<input type="checkbox"/> Saturated	<input type="checkbox"/> Dense
<input type="checkbox"/> Steppe Shrubs	<input type="checkbox"/> Almond	<input type="checkbox"/> w/Stubble	<input type="checkbox"/> Moist	<input type="checkbox"/> Moderate
<input type="checkbox"/> Uncultivated	<input type="checkbox"/> Wheat	<input type="checkbox"/> Standing Crop	<input type="checkbox"/> Dry	<input type="checkbox"/> Sparse
<input type="checkbox"/> Fallow	<input type="checkbox"/> Barley	<input type="checkbox"/> Gullied	<input type="checkbox"/> Fine Texture	<input type="checkbox"/> Absent
<input type="checkbox"/> Terraced	<input type="checkbox"/> Vines	<input type="checkbox"/> Washed	<input type="checkbox"/> Avg. Texture	<u>Age of Crops</u>
<input type="checkbox"/> Irrigated	<input type="checkbox"/> Orange	_____	<input type="checkbox"/> Rough Texture	_____ Tree Crops
_____	<input type="checkbox"/> Dates	_____	_____	_____ Vines
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

Materials

Flint Bone Metal Pottery Polished S. Ground S. Bld. S. Glass

(BACK)

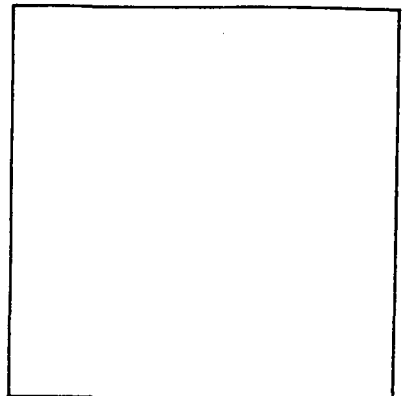
Comments _____

Artifact Visibility

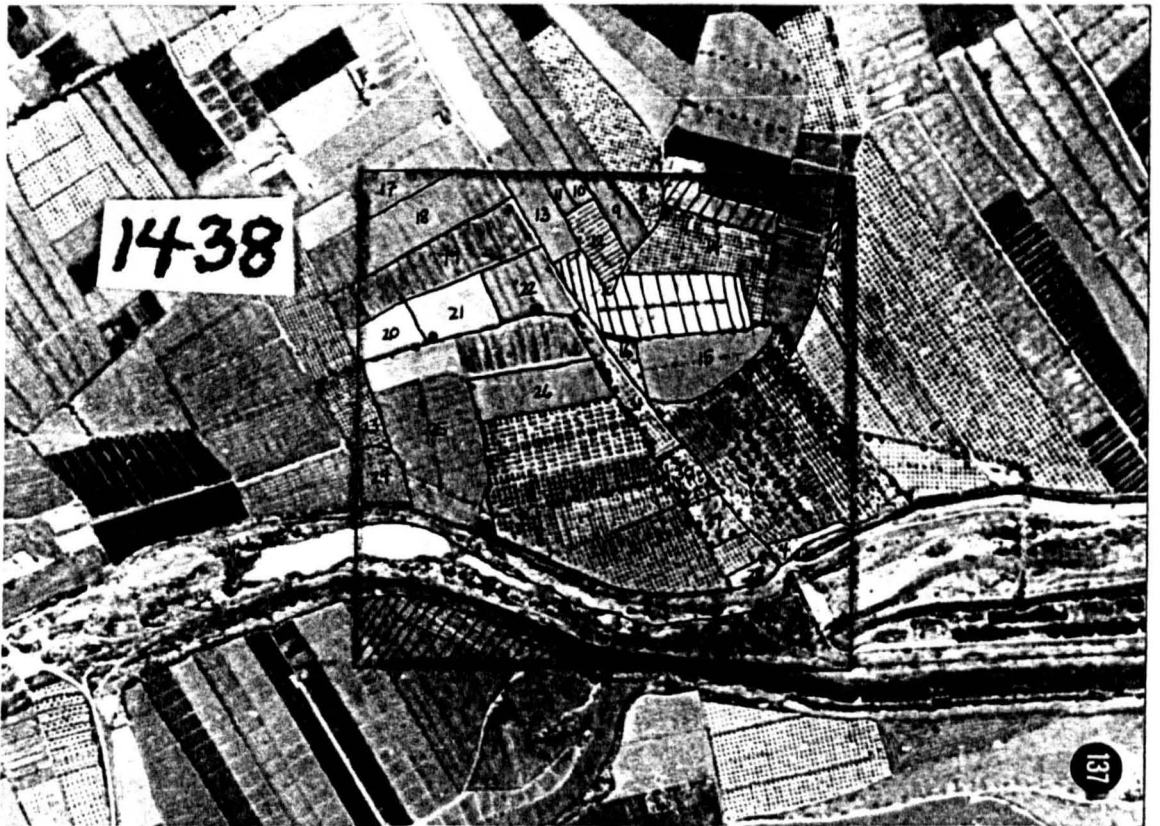
Continuous Cloud Cover Wash Zone

Soil Colour

Soil/Veg. _____ So<V _____ So=V _____ So>V
 Soil/Stone _____ So<St _____ So=St _____ So>St
 Stone/Veg. _____ St<V _____ St=V _____ St>V



Example of An Enlarged Air Photograph Used in Field Recording



Palaeolithic/Epipalaeolithic

Microblade industry, microburins, geometric microliths, backed blades/bladelets, burins, pressure flaked projectile points, small discoidal scrapers, large notches and denticulates, fine awls/perforators. Occupation generally in caves or rockshelters. Burials have yet to be documented.

Neolithic

Stone tool industry dominated by small retouched and unretouched blades/bladelets, and trapezes. Variety of decorated ceramics including Cardial and non-Cardial impressed wares, almagra, incised wares, and vessels with painted washes and incrustations. Also a host of characteristic additions such as spout handles, wreath-shaped cordons, channelling, tunnel lugs, double and triple handles, low relief 'grape clusters', and handles with small projecting appendices. Wide variety of characteristic baggy and bomb-shaped vessel, as well as large ovoid vessels with cylindrical necks and bodies. Occupation generally in caves. Burials consist of scatters of human remains associated with residential debris or interments in trenches or pits.

Copper Age

Generalized stone tool industry dominated by medium-large sized blades, bifacial arrowheads, sickle flints and fine flint daggers. Plain ware pottery is dominant. More limited range of decorated wares: Beakers, 'Gipskeramik' (gypsum wares), vessels with schematic and anthropomorphic motifs (solar and eye-idol designs, animals and humans) and some painted wares. Ceramics generally crude and of irregular manufacture. Usually light, oxidized wares. Flat-based coarse pottery with irregular shape, and rope, fiber and esparto impressions. Characteristic forms include large necked vessels, low plates (with thick beveled or almond-shaped rims) and dishes, a wide variety of bowls, and wide straight-sided cooking vessels. Decorated and undecorated figurines and idols - in stone, bone and clay. Characteristic metal objects such as flat, flanged axes, tanged points, and unriveted daggers. Burials occur outside settlement area in megalithic tombs, rockshelters and caves, rock fissures and rock-cut tombs. Generally round-oval house plans.

Argaric Bronze Age

Crude stone tool technology, often with large coarse blades. Generally little flint. More expedient tools made from quartz and quartzite more common. Pottery generally better fired, and more standardized forms, than in previous periods - almost exclusively plain wares. Large storage vessels/urns, carinated pottery and chalices characteristic of Argaric assemblages. Greater quantity and range of metal objects than in the Copper Age, including characteristic axes forms, riveted daggers and halberds, spirals, bracelets, earrings, pendants, diadems, as well as a range of gold and silver ornaments. Cist, urn, pit/trench and small rockshelter burials all associated with the settlement. Generally rectangular house plans.

Late-Final Bronze Age

Crude stone tool technology dominated by expedient tools made of quartz, quartzite and limestone. Pottery dominated by plain wares with carinations which generally lie in the upper 1/3 of the vessel. These carinations are usually less pronounced than in the previous period. Decoration is more common than in the Early-Middle Bronze Age, and includes 'boquique', excision, incision, and puntillado - all of these associated with incrustations such as bronze buttons or coloured paste. Argaric vessel forms generally rare or absent. Incised and impressed rims common. Characteristic forms include: wide decorated bowls with small bases, dishes with pronounced concave lip and concave base, vessel supports, urns and bowls with light carination in the upper 1/3 of the vessel, and ovoid urns with marked neck. Metal objects include rapiers, carp's tongue swords, fibulas, and various forms of axes/pulstaves (including those with a 'heel' and with lateral appendages). Burials generally not associated with settlement. Oval habitation structures, many with large stucco plaques decorated with geometric designs.

Ibero-Roman

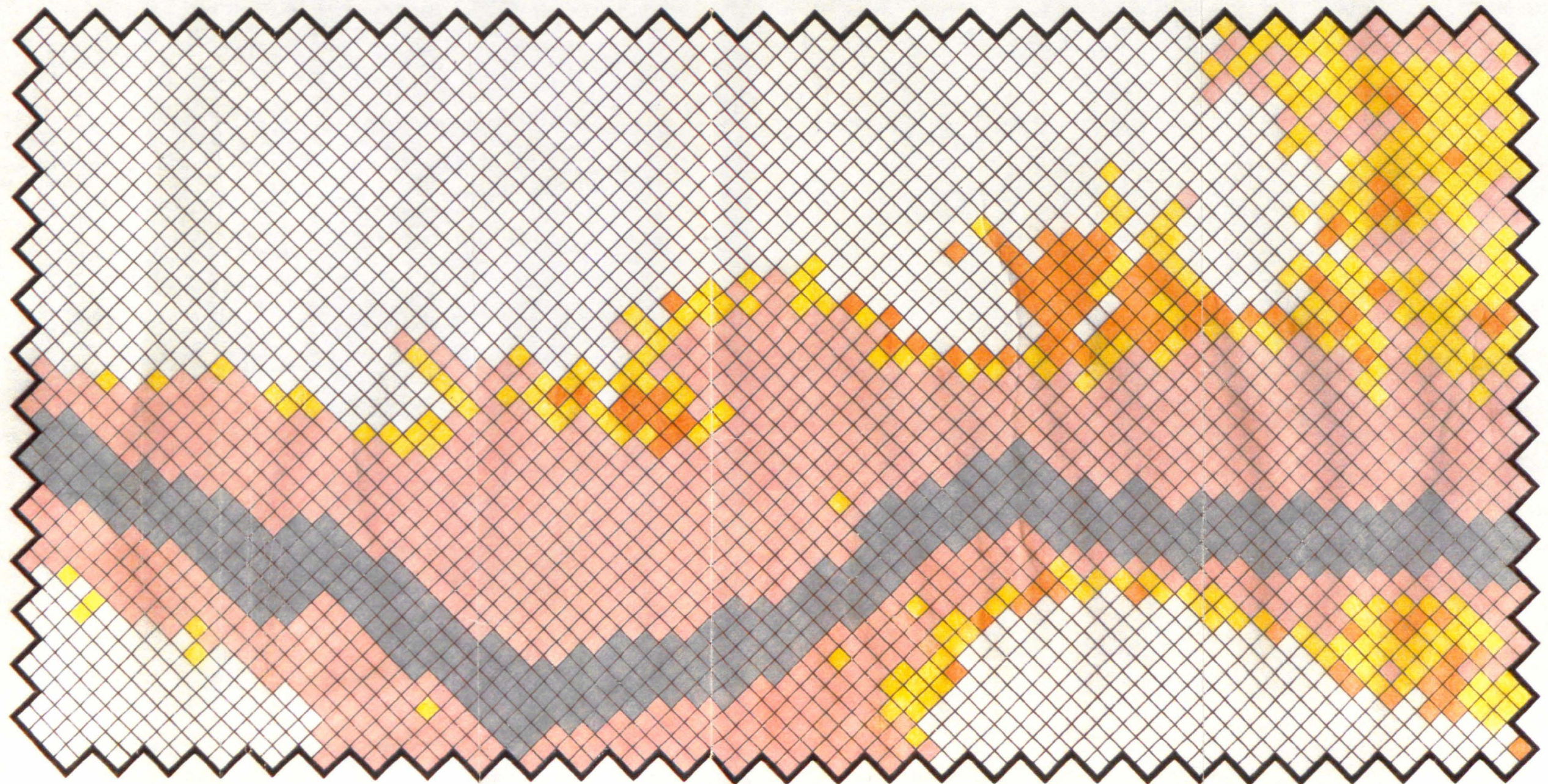
Wheel-turned, high fired pottery of good quality. 'Sandwich-like' appearance of vessel fragments with light coloured interior surrounded by darker exterior surfaces. Characteristic features include: grey wares, various kinds of light painted wares, amphorae, highly fired light reddish, pinkish and orangish wares, painted urns, and twin or incised handles. Tegula and glass common. Large, rough cut masonry associated with farmstead and settlement sites. Burial is in urns (cremations) and rectangular trench burials. Rotary querns. Roman coinage.

Medieval

Wheel-turned pottery dominated by domestic wares - many of them of crudely manufactured. Characteristic features include: stab and drag motifs, ridged cordons, glazed wares, and a variety of painted wares (including a tripartite coloured wash motif). Ceramic lamps. Medieval coinage. Large nucleated settlements and cemeteries.

CHARACTERISTIC FEATURES USED TO DIFFERENTIATE COPPER AND BRONZE AGE ASSEMBLAGES


Item or Characteristic Feature	Copper Age	Bronze Age
Large Storage Vessel	Generally Absent	Abundant
Large Funerary Urns	Absent	Abundant
Carinated Pottery	Generally Sparse	Abundant
Chalices	Absent	Relatively Abundant
Pottery with Unperforated Lugs	Relatively Abundant	Generally Sparse
Pottery with Perforated Lugs	Relatively Abundant	Rare or Absent
Beveled Rims	Abundant	Absent
Hemispherical Bowls	Abundant	Relatively Abundant
Repaired Vessels	Relatively Abundant	Generally Absent
Wide Range of Tempering Materials	Abundant	Generally Absent
Wide Range of Fabric Colours	Abundant	Absent
Crude Surface Treatment	Abundant	Generally Sparse
Decorated Wares (Impressed/Incised/Combed) - from Domestic Contexts	Generally Sparse	Rare or Absent
Decorated Wares (Impressed/Incised/Combed) - from Funerary Contexts	Generally Sparse	Rare or Absent
Decorated Wares (Painted) - from Domestic Contexts	Rare or Absent	Absent
Decorated Wares (Painted) - from Funerary Contexts	Generally Absent	Absent
Highly Burnished Vessels	Generally Absent	Abundant
Use of Organic Tempering Materials	Relatively Abundant	Rare or Absent
Flat Based Vessel	Abundant	Rare or Absent
Vessels with Rope, Vegetable Fiber, or Finger Impressions	Relatively Abundant	Rare or Absent
Vessels with Inturned Rims	Relatively Abundant	Generally Sparse
Vessels with Decorated or Undecorated Cordons	Relatively Abundant	Absent
Small bowls or 'pygmy' vessels	Relatively Abundant	Absent
Low, Straight-sided, Flat-based Bowls	Relatively Sparse	Absent
Light Yellowish, Beige, Pinkish, Red Buff Coloured Fabric	Abundant	Rare or Absent
Irregular Finishing of Walls and Rim	Abundant	Generally Absent




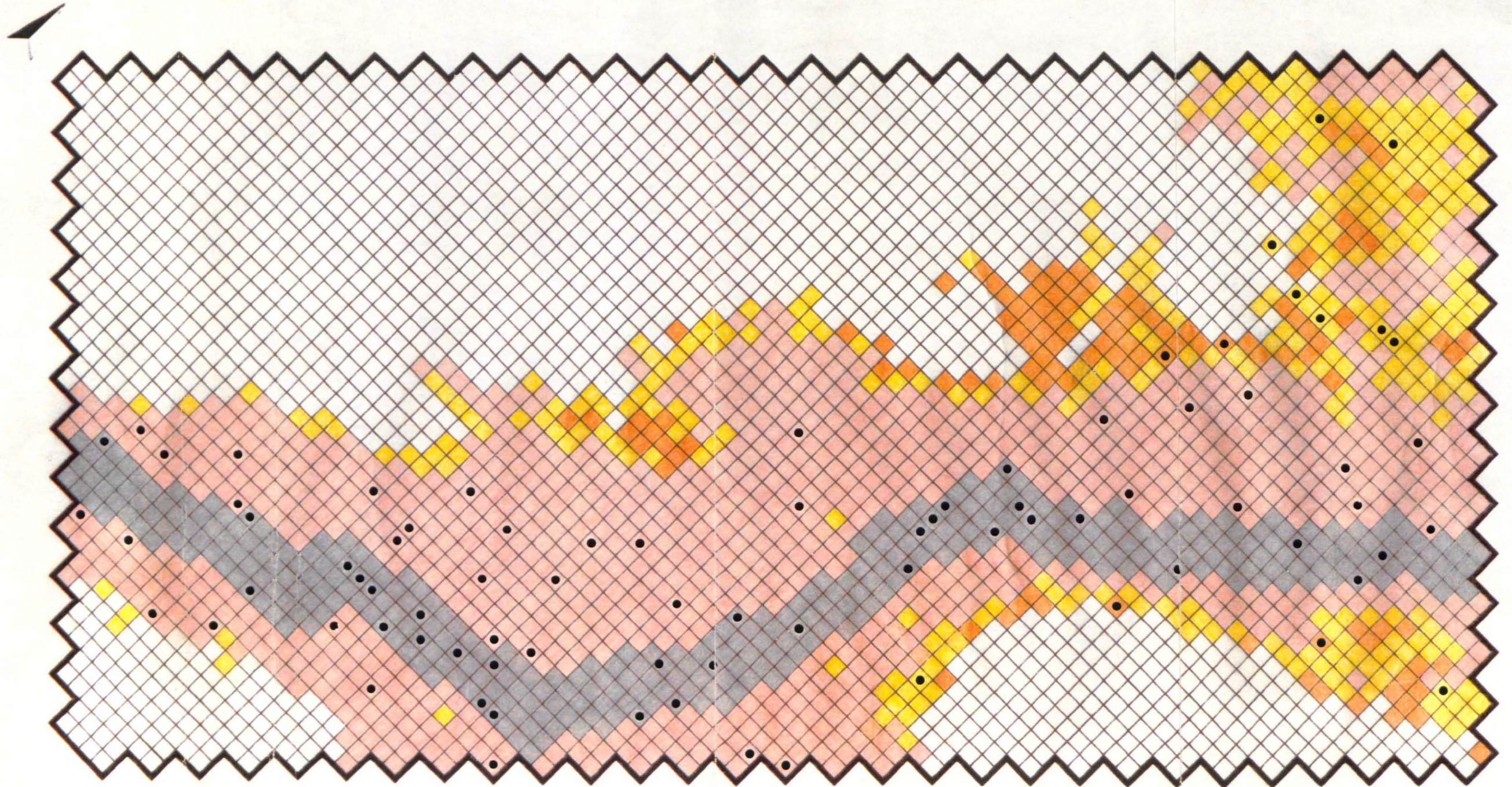
Unit 1A 

Unit 1 

Unit 2 

Unit 3 


5 km 




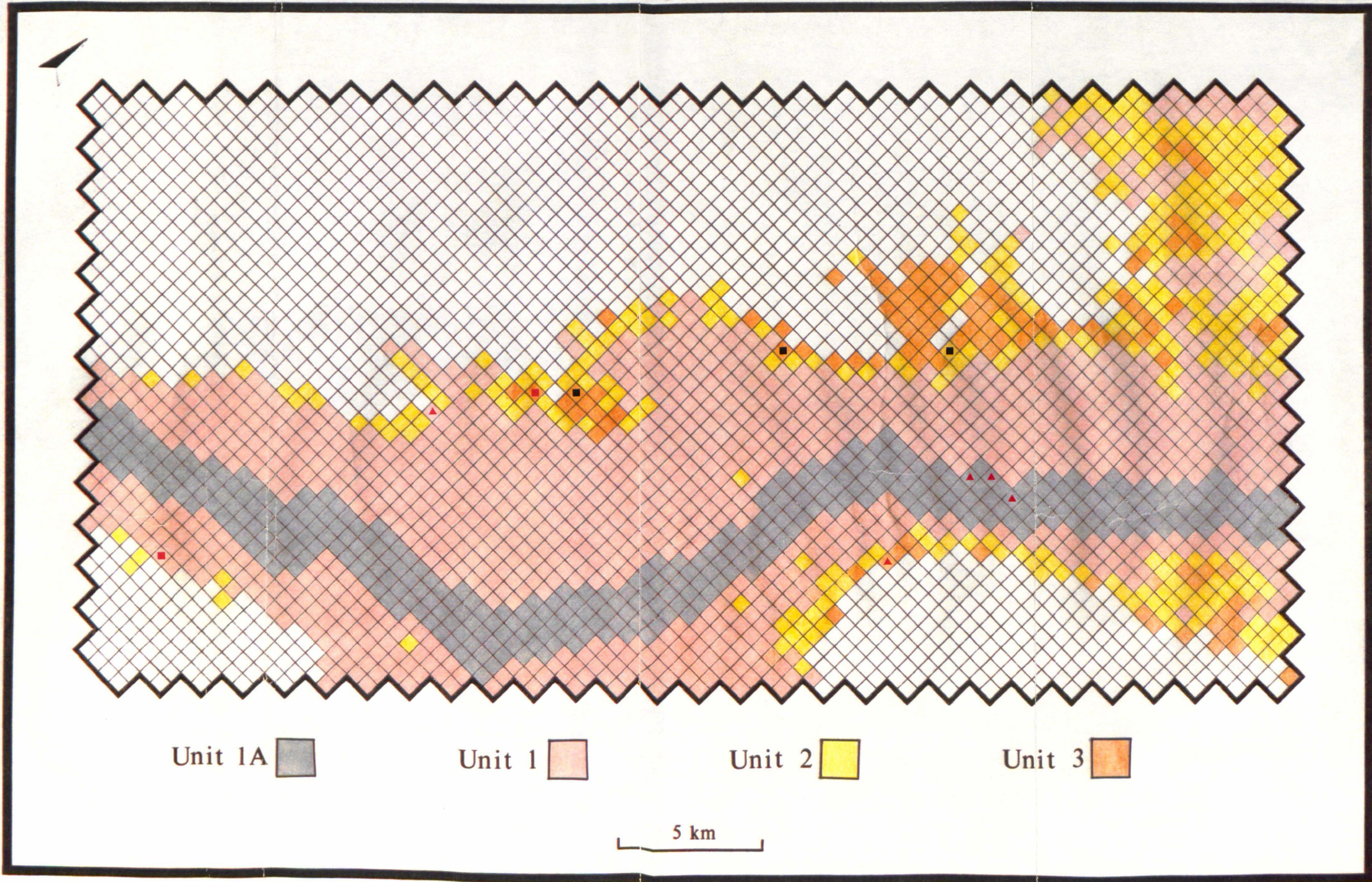
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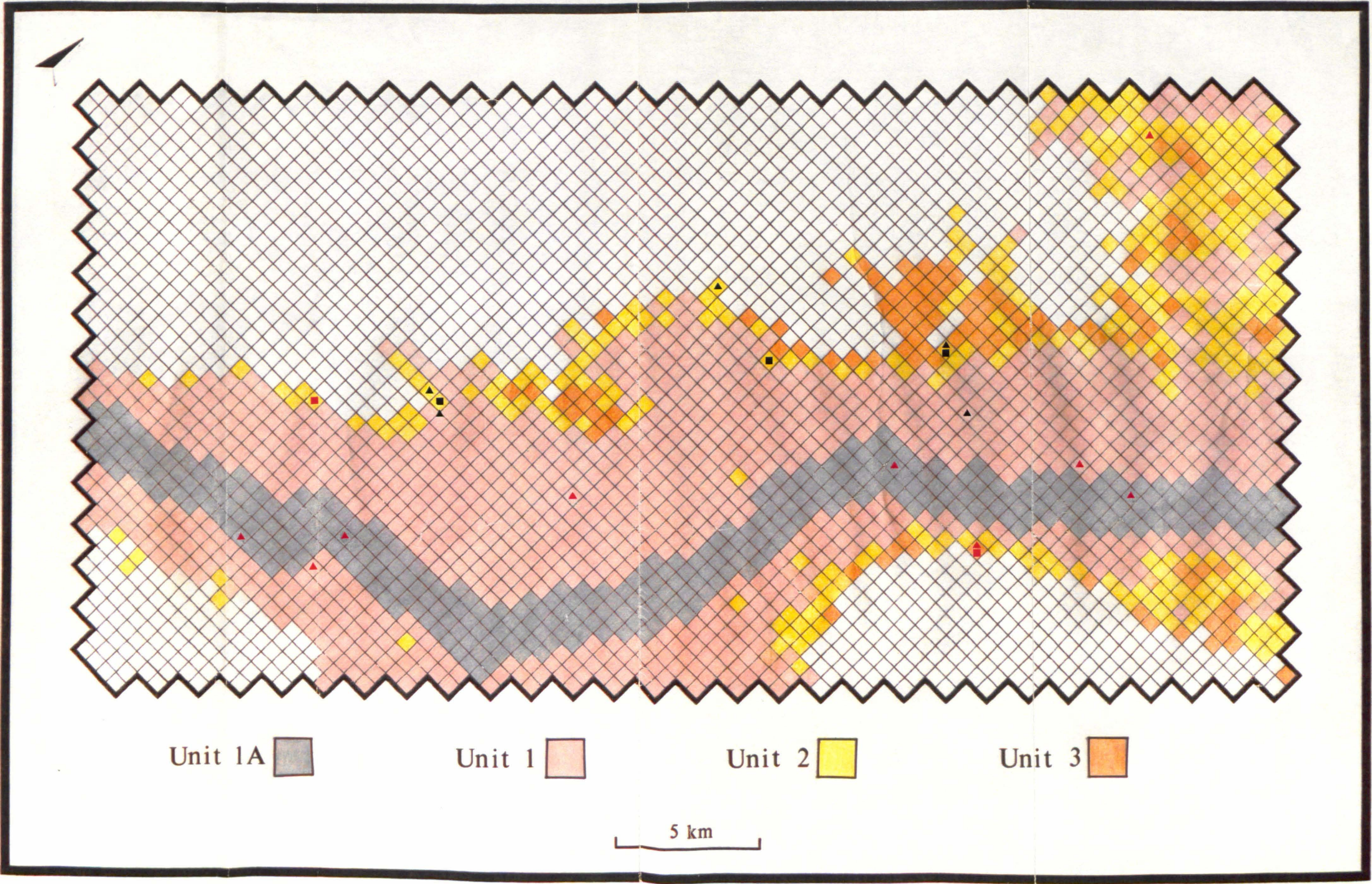
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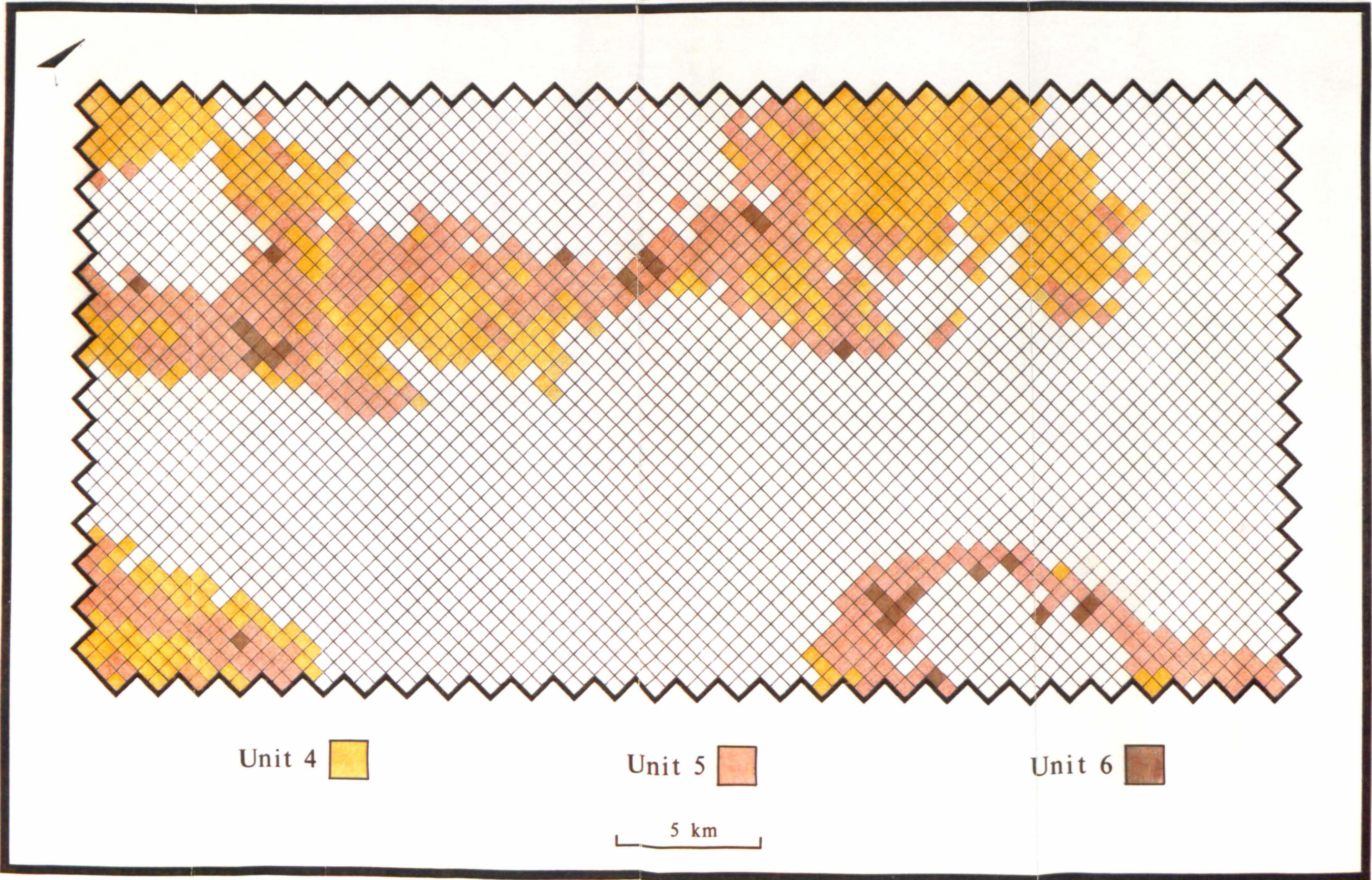
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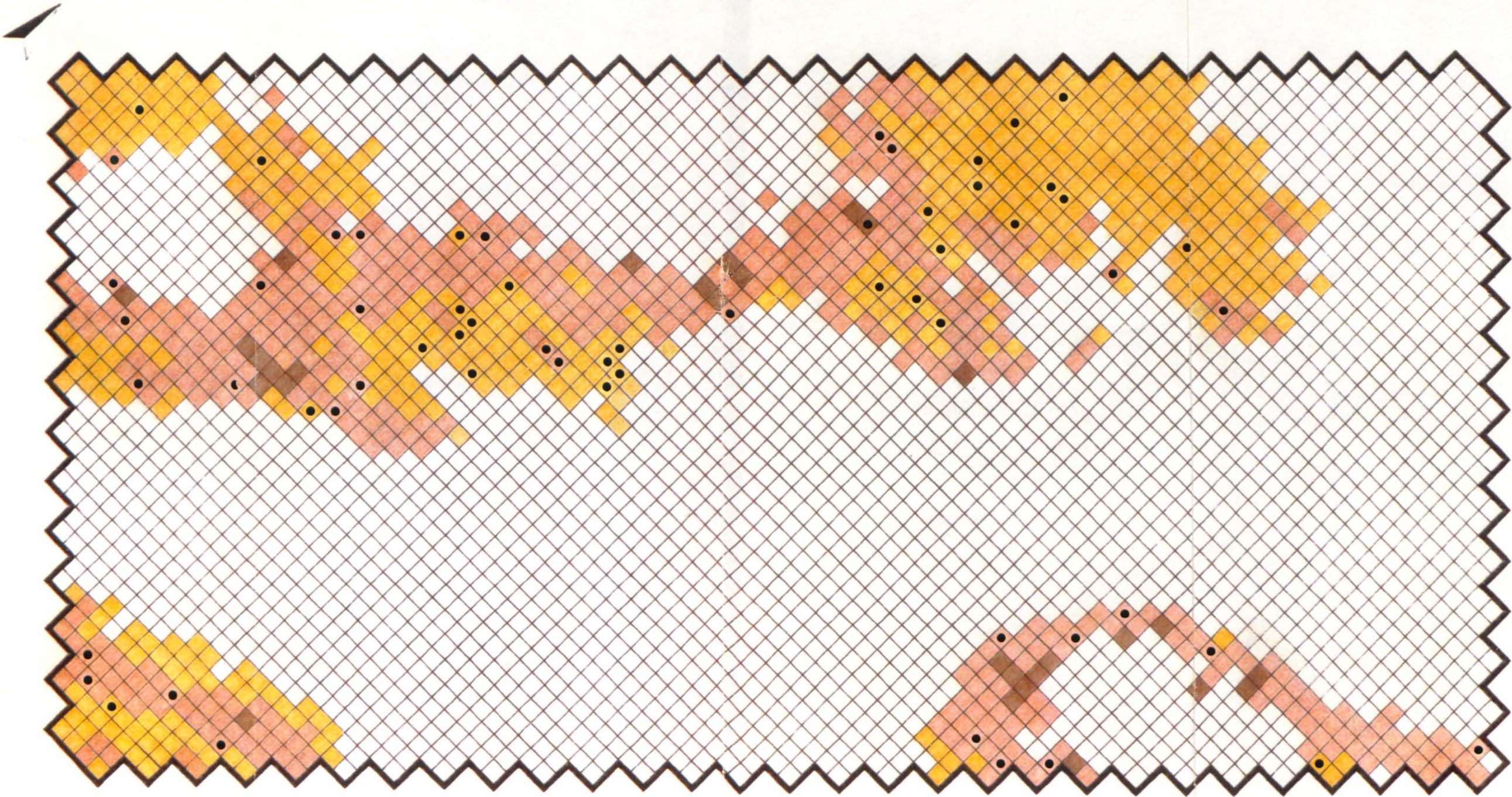
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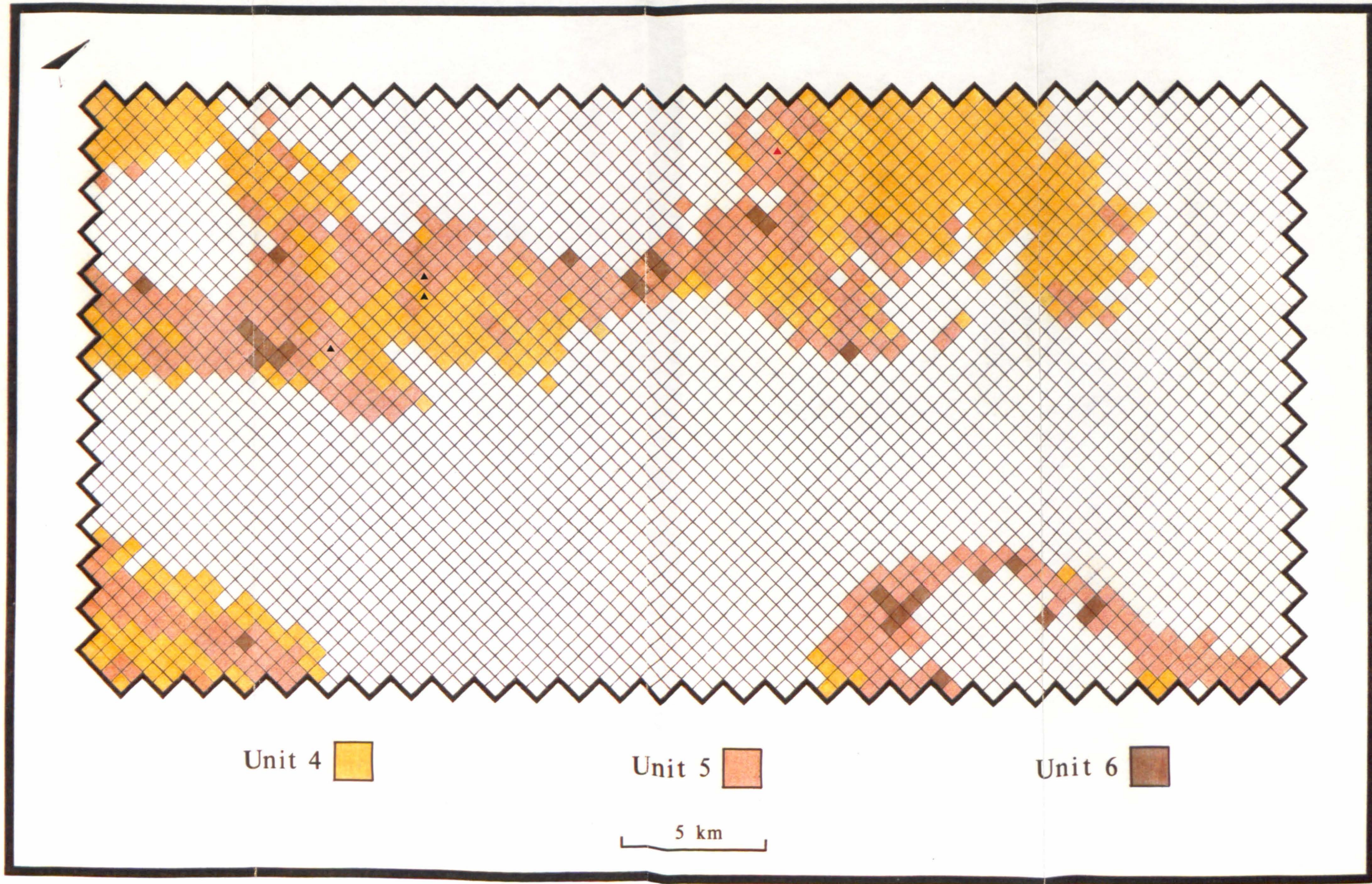


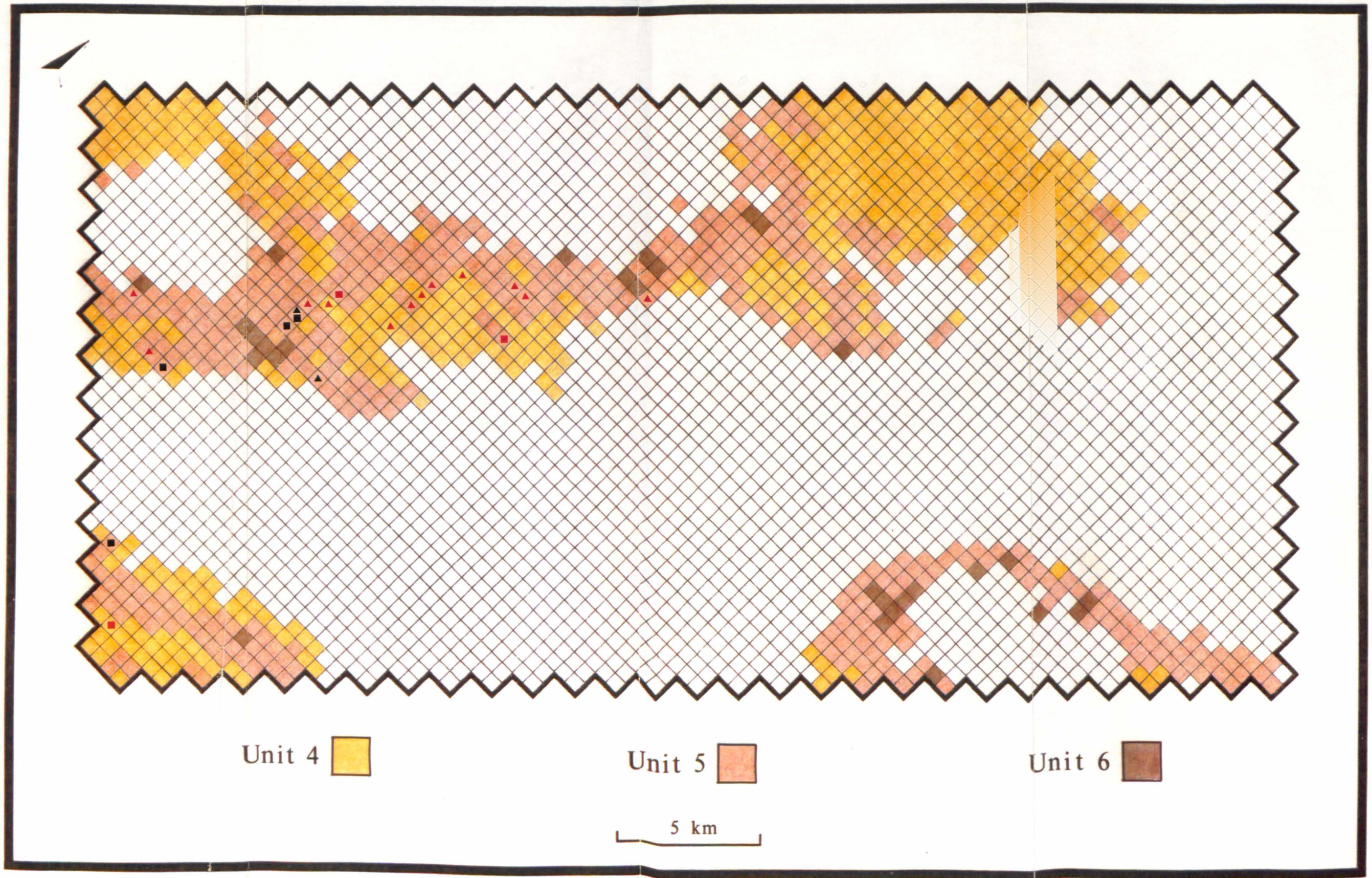
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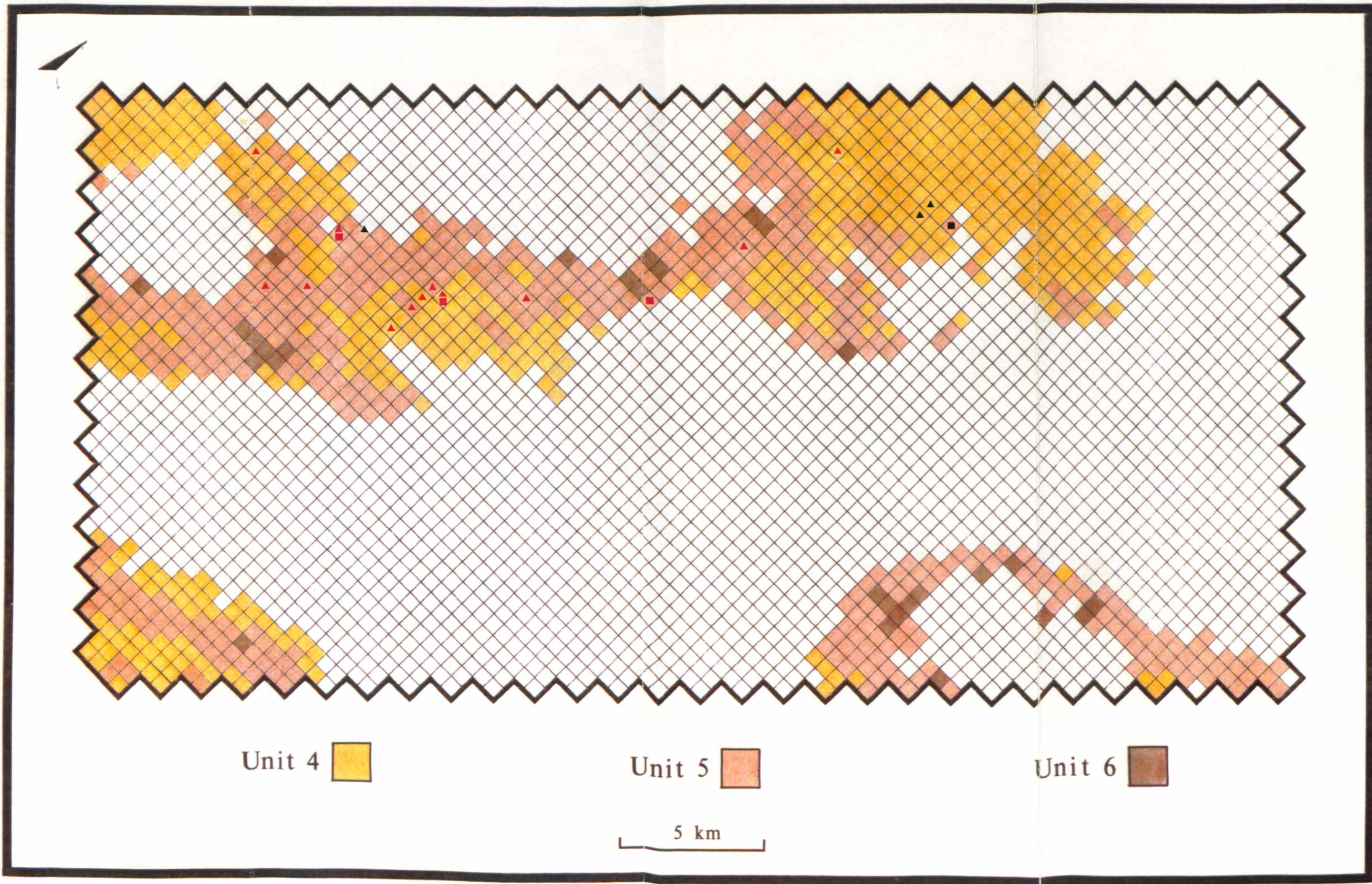
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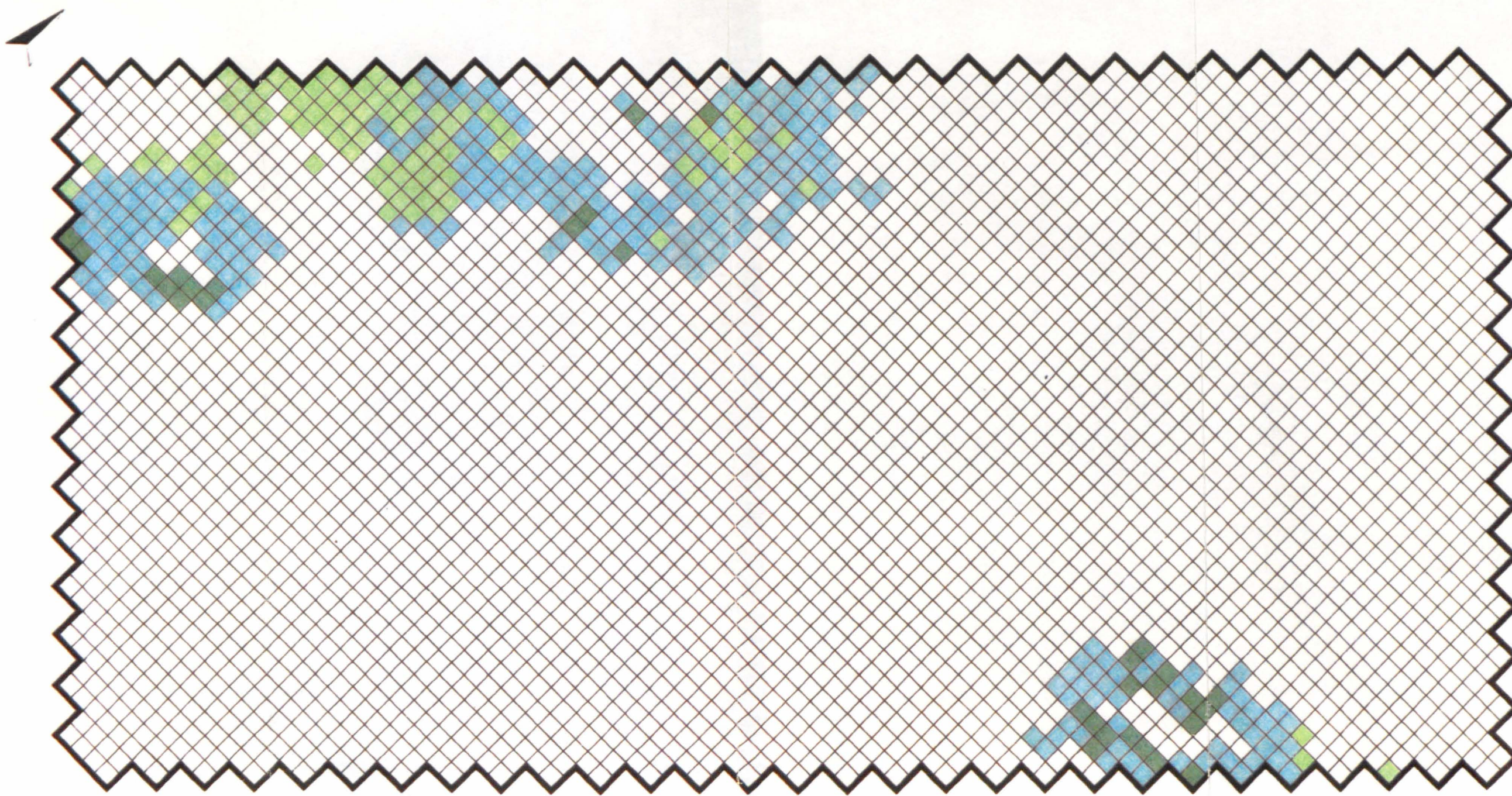
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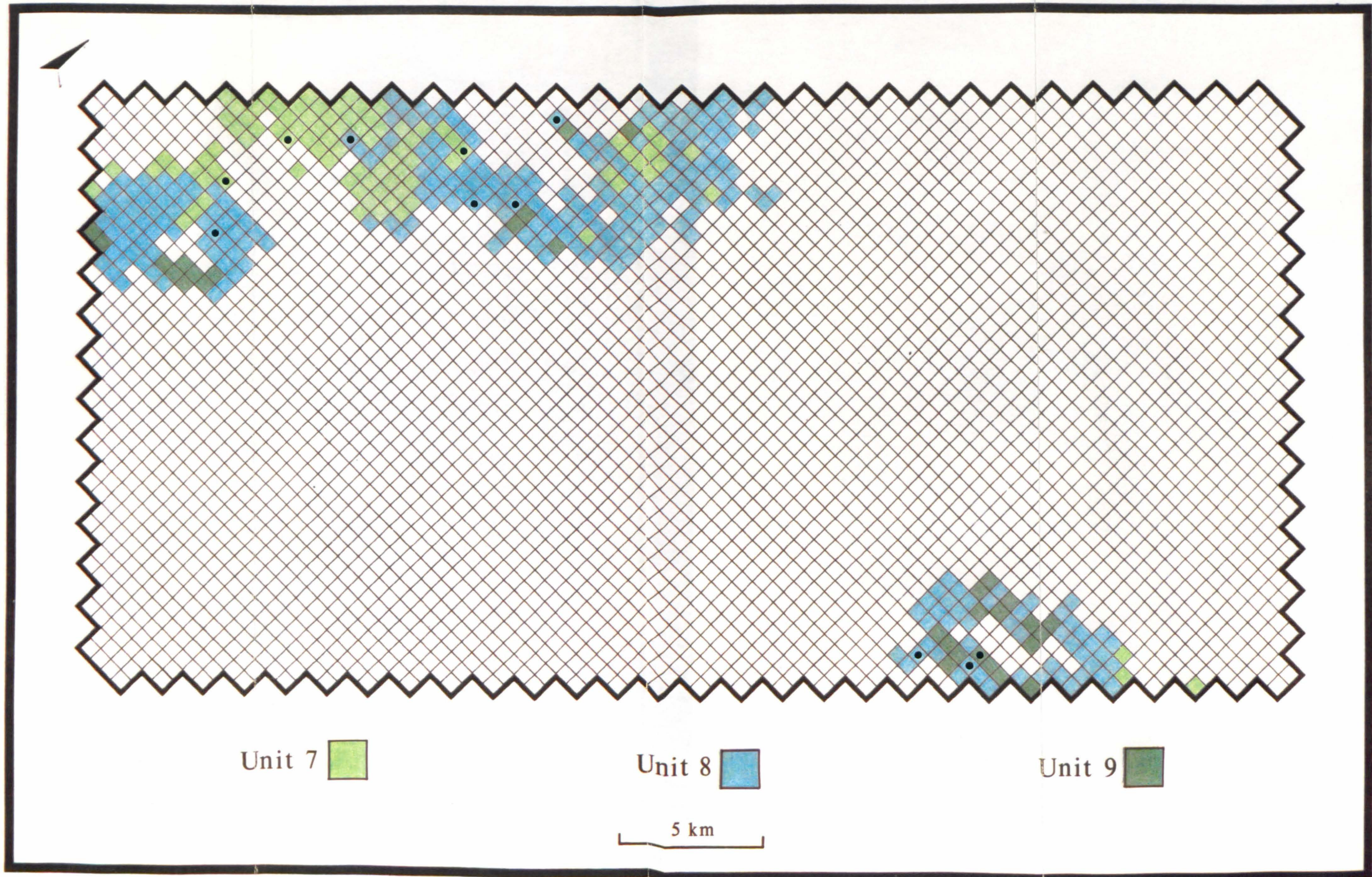


Unit 7 

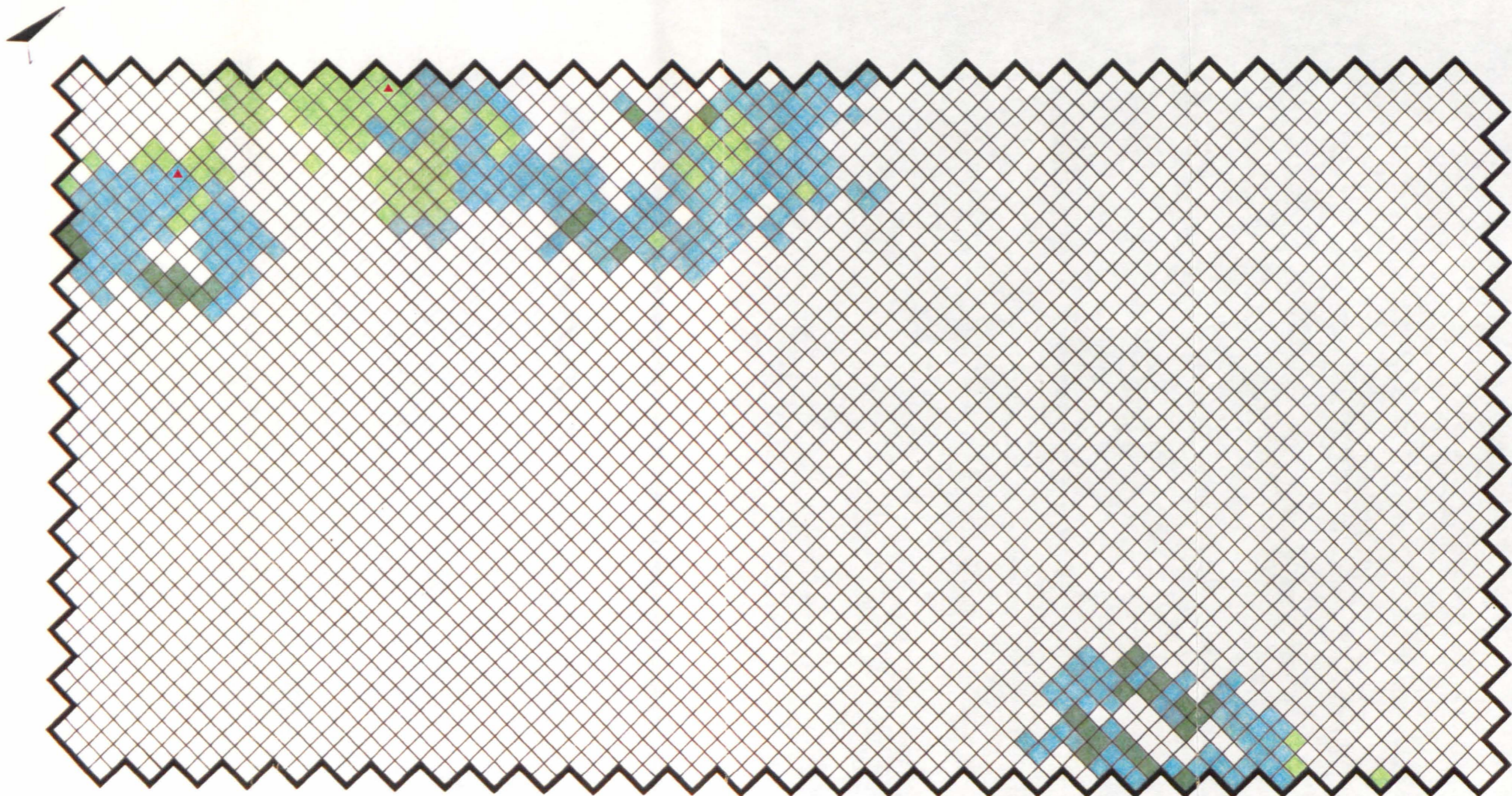
Unit 8 

Unit 9 

5 km 




(RED)

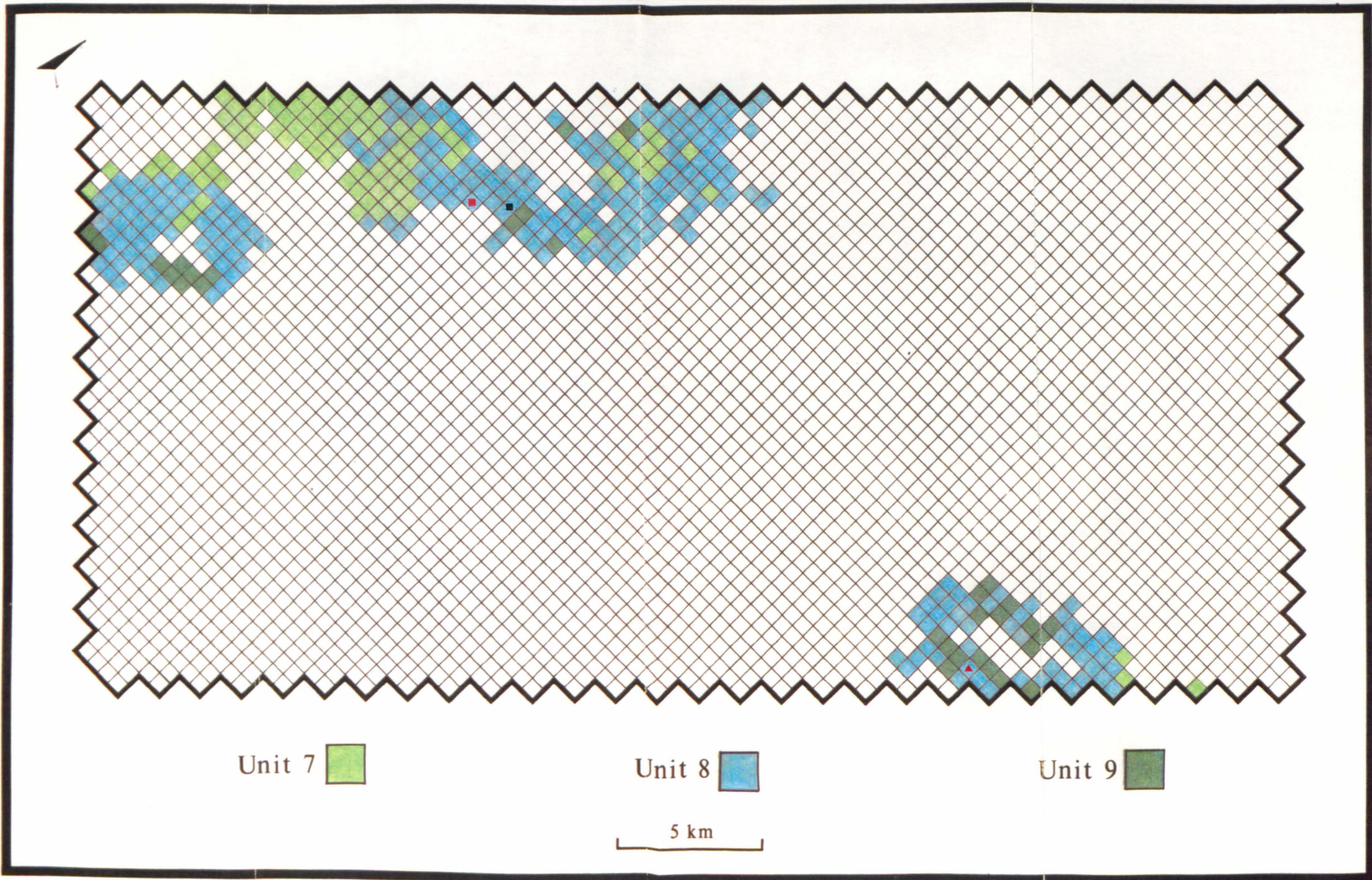


Unit 7 

Unit 8 

Unit 9 

5 km 



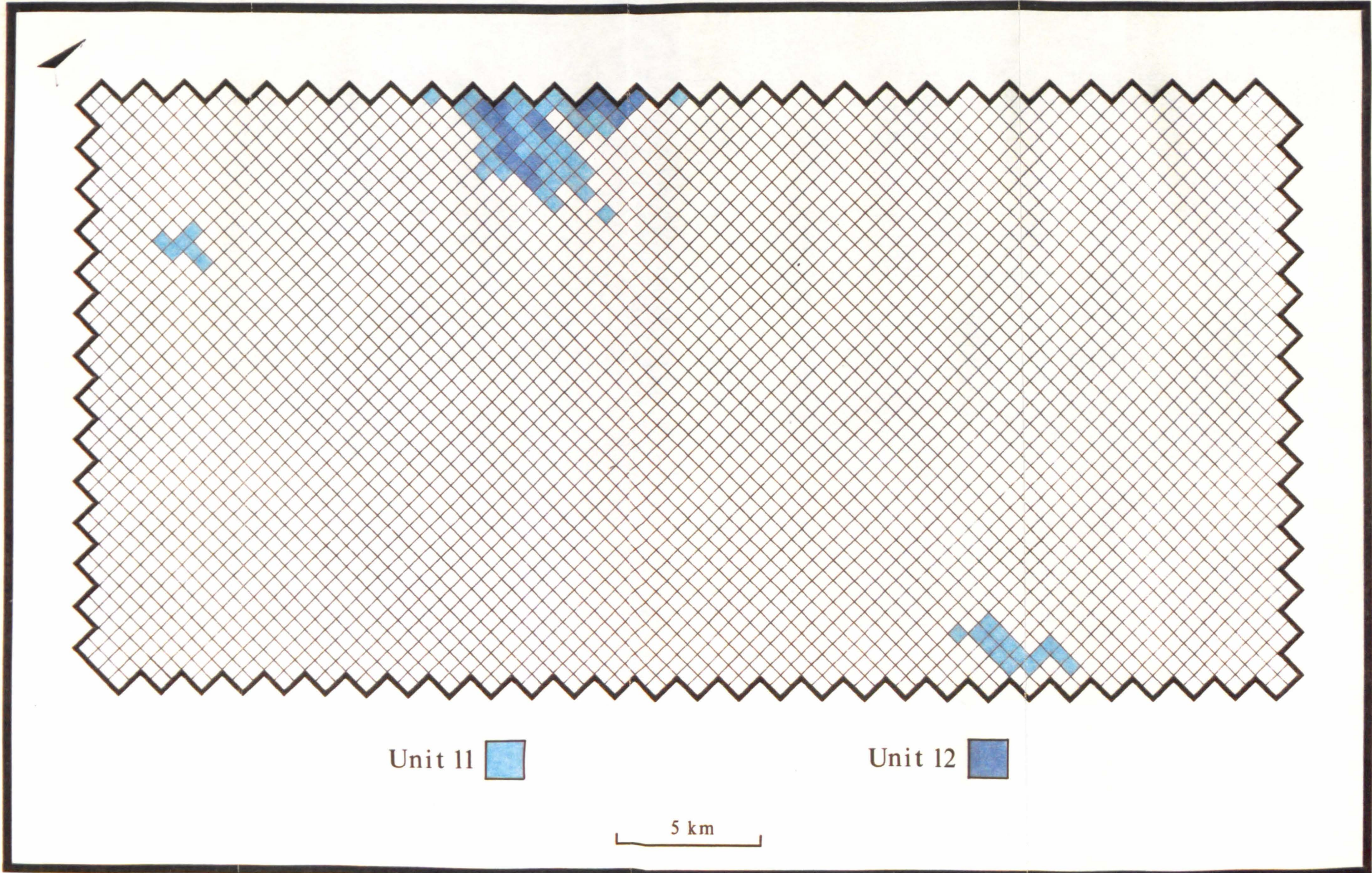


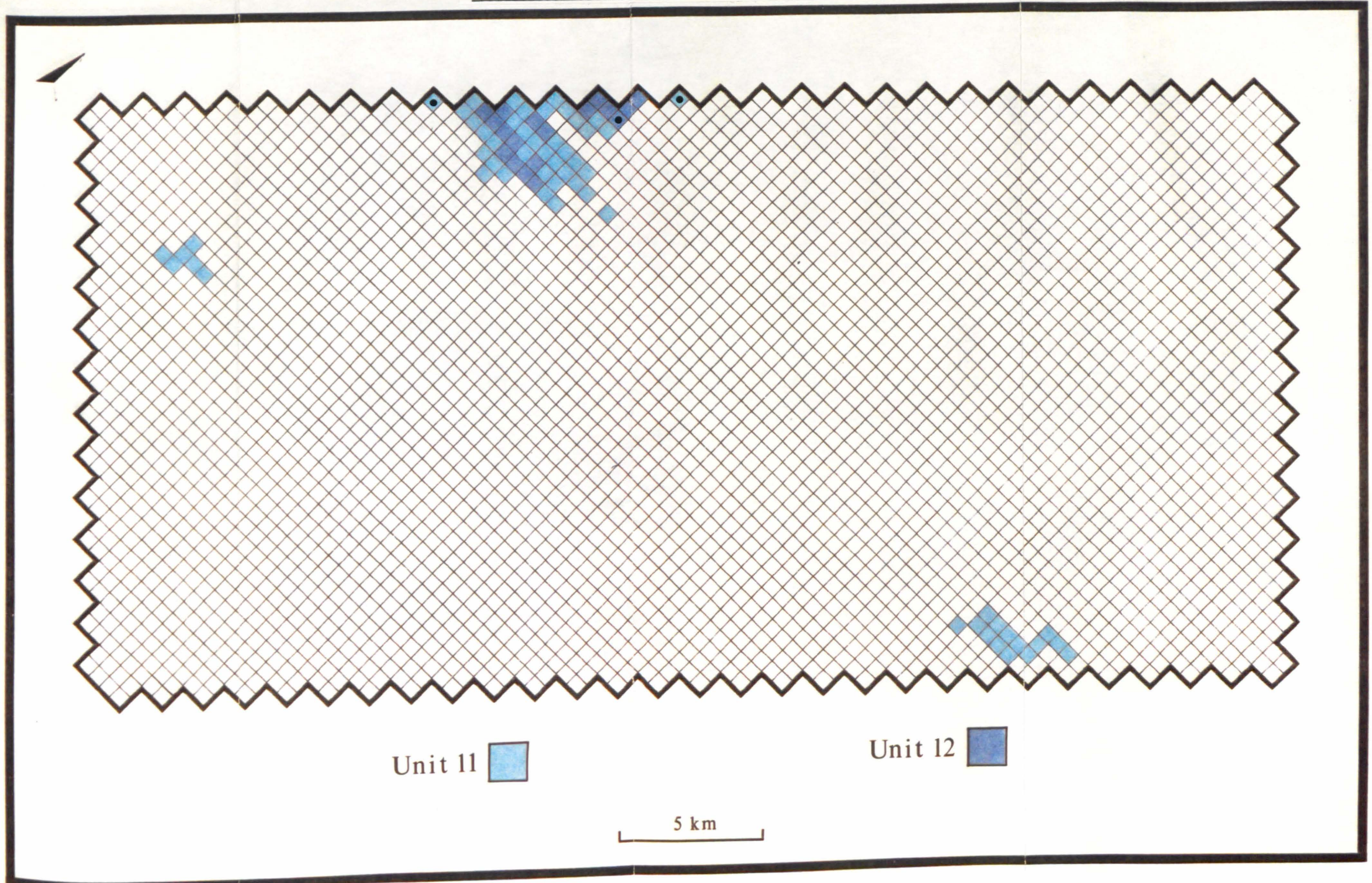
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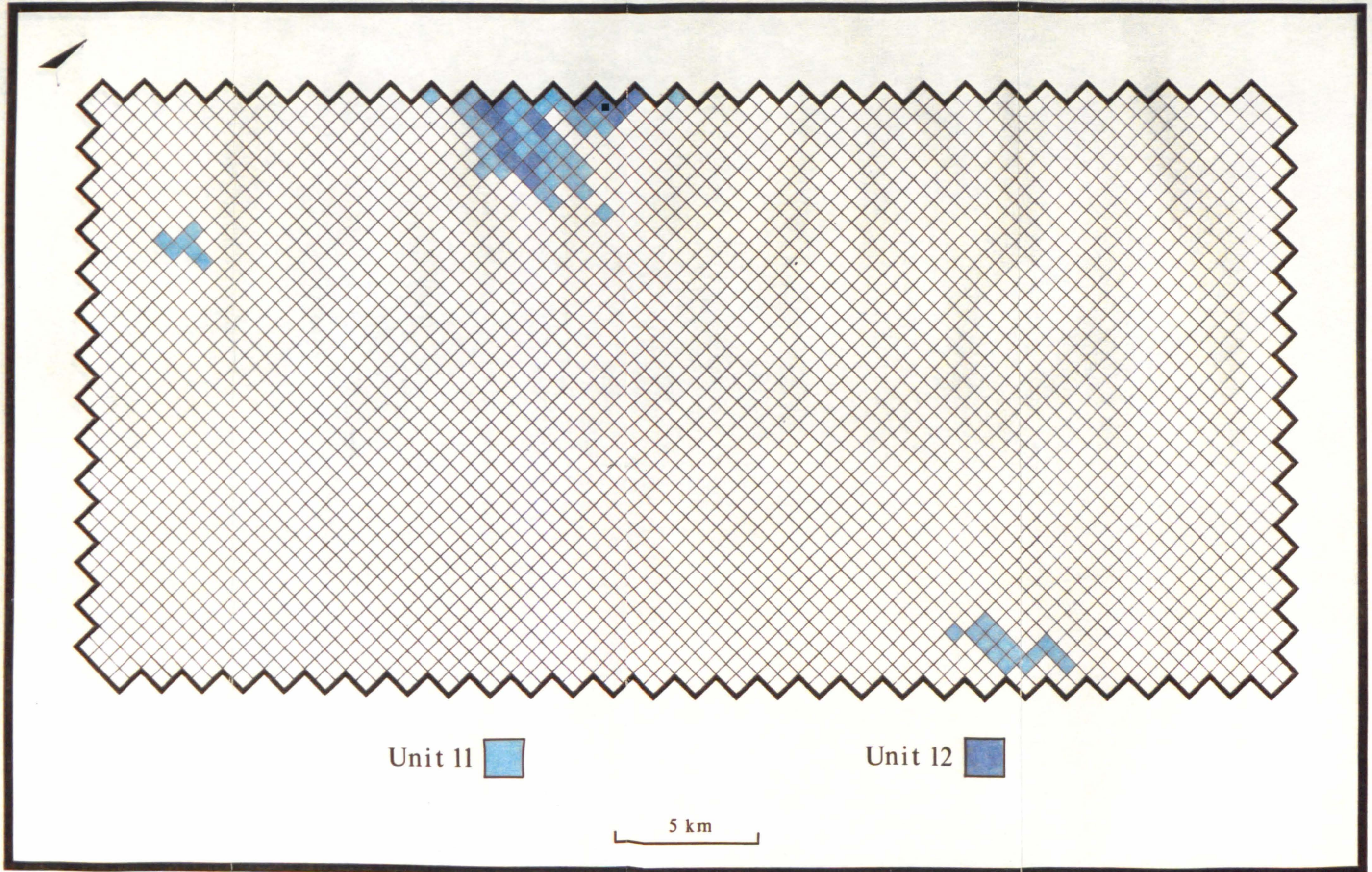
Unit 8 

Unit 9 

5 km 







The only site reported in these strata is Morron de Totana (Cuadrado Ruiz 1948; Lull 1983) - a site which is believed to date to the Argaric Bronze Age. However, material from this site has apparently been lost and all attempts to locate this settlement on the ground during the course of the survey failed to reveal any signs of prehistoric (or later) occupation around the peak of Morron de Totana.

STRATA 1 : COMPARISON OF SITES BEFORE AND AFTER SURVEY

No. of Sites Known Before Survey	Isolated Finds	Farmsteads	Settlements	Cemeteries	Rockshelters/ Caves	Total
1. Palaeolithic/Epipalaeolithic	-	-	-	-	-	0
2. Neolithic	-	-	-	-	-	0
3. Copper Age	-	-	-	-	-	0
4. Argaric Bronze Age	-	-	-	-	-	0
5. Late-Final Bronze Age	-	-	-	-	-	0
6. Ibero-Roman	1	-	2	-	-	3
7. Medieval	-	-	3	-	-	3
TOTAL	1	0	5	0	0	6
No. of Sites Found During Survey (Within Sampling Units)	Isolated Finds	Farmsteads	Settlements	Cemeteries	Rockshelters/ Caves	Total
1. Palaeolithic/Epipalaeolithic	-	-	-	-	-	0
2. Neolithic	-	-	-	-	-	0
3. Copper Age	-	-	-	-	-	0
4. Argaric Bronze Age	-	-	-	-	-	0
5. Late-Final Bronze Age	-	-	1	-	-	1
6. Ibero-Roman	-	1	-	-	-	1
7. Medieval	-	-	-	-	-	0
TOTAL	0	1	1	0	0	2

STRATA 1 : COMPARISON OF SITES BEFORE AND AFTER SURVEY (Continued)

No. of Sites Found During Survey (Outside Sampling Units)	Isolated Finds	Farmsteads	Settlements	Cemeteries	Rockshelters/ Caves	Total
1. Palaeolithic/Epipalaeolithic	-	-	-	-	-	0
2. Neolithic	-	-	-	-	-	0
3. Copper Age	1	-	-	-	-	1
4. Argaric Bronze Age	-	-	-	-	-	0
5. Late-Final Bronze Age	-	-	-	-	-	0
6. Ibero-Roman	-	-	-	-	-	0
7. Medieval	-	-	-	-	-	0
TOTAL	1	0	0	0	0	1
No. of Sites Found During Survey (Total)	Isolated Finds	Farmsteads	Settlements	Cemeteries	Rockshelters/ Caves	Total
1. Palaeolithic/Epipalaeolithic	-	-	-	-	-	0
2. Neolithic	-	-	-	-	-	0
3. Copper Age	1	-	-	-	-	1
4. Argaric Bronze Age	-	-	-	-	-	0
5. Late-Final Bronze Age (?)	-	-	1	-	-	1
6. Ibero-Roman	-	1	-	-	-	1
7. Medieval	-	-	-	-	-	0
TOTAL	1	1	1	0	0	3

STRATA 1: COMPARISON OF SITES KNOWN BEFORE AND AFTER SURVEY (Continued)

Combined Total of Sites Known Before and After Survey	Isolated Finds	Farmsteads	Settlements	Cemeteries	Rockshelters/ Caves	Total
1. Palaeolithic/Epipalaeolithic	-	-	-	-	-	0
2. Neolithic	-	-	-	-	-	0
3. Copper Age	1	-	-	-	-	1
4. Argaric Bronze Age	-	-	-	-	-	0
5. Late-Final Bronze Age (?)	-	-	1	-	-	1
6. Ibero-Roman	2	1	2	-	-	5
7. Medieval	-	-	3	-	-	3
TOTAL	3	1	6	0	0	10

STRATA 1A: COMPARISON OF SITES BEFORE AND AFTER SURVEY

No. of Sites Known Before Survey	Isolated Finds	Farmsteads	Settlements	Cemeteries	Rockshelters/ Caves	Total
1. Palaeolithic/Epipalaeolithic	-	-	-	-	-	0
2. Neolithic	-	-	-	-	-	0
3. Copper Age	-	-	-	-	-	0
4. Argaric Bronze Age	-	-	-	-	-	0
5. Late-Final Bronze Age	-	-	-	-	-	0
6. Ibero-Roman	-	-	-	-	-	0
7. Medieval	-	-	-	-	-	0
TOTAL	0	0	0	0	0	0
No. of Sites Found During Survey (Within Sampling Units)	Isolated Finds	Farmsteads	Settlements	Cemeteries	Rockshelters/ Caves	Total
1. Palaeolithic/Epipalaeolithic	-	-	-	-	-	0
2. Neolithic	-	-	-	-	-	0
3. Copper Age	-	-	2	-	-	2
4. Argaric Bronze Age	-	-	-	-	-	0
5. Late-Final Bronze Age	-	-	-	-	-	0
6. Ibero-Roman	1	6	-	-	-	7
7. Medieval	-	1	-	-	-	1
TOTAL	1	7	2	-	-	10

STRATATA: COMPARISON OF SITES BEFORE AND AFTER SURVEY (Continued)

No. of Sites Found During Survey (Outside Sampling Units)	Isolated Finds	Farmsteads	Settlements	Cemeteries	Rockshelters/ Caves	Total
1. Palaeolithic/Epipalaeolithic	-	-	-	-	-	0
2. Neolithic	-	-	-	-	-	0
3. Copper Age	-	-	1	-	-	1
4. Archaic Bronze Age	-	-	-	-	-	0
5. Late-Final Bronze Age	-	-	-	-	-	0
6. Ibero-Roman	1	-	-	-	-	1
7. Medieval	-	-	-	-	-	0
TOTAL	1	0	1	0	0	2
No. of Sites Found During Survey (Total)	Isolated Finds	Farmsteads	Settlements	Cemeteries	Rockshelters/ Caves	Total
1. Palaeolithic/Epipalaeolithic	-	-	-	-	-	0
2. Neolithic	-	-	-	-	-	0
3. Copper Age	-	-	3	-	-	3
4. Archaic Bronze Age	-	-	-	-	-	0
5. Late-Final Bronze Age	-	-	-	-	-	0
6. Ibero-Roman	2	6	-	-	-	8
7. Medieval	-	1	-	-	-	1
TOTAL	2	7	3	0	0	12

STRATATA: COMPARISON OF SITES KNOWN BEFORE AND AFTER SURVEY (Continued)

Combined Total of Sites Known Before and After Survey	Isolated Finds	Farmsteads	Settlements	Cemeteries	Rockshelters/ Caves	Total
1. Palaeolithic/Epipalaeolithic	-	-	-	-	-	0
2. Neolithic	-	-	-	-	-	0
3. Copper Age	-	-	3	-	-	3
4. Archaic Bronze Age	-	-	-	-	-	0
5. Late-Final Bronze Age	-	-	-	-	-	0
6. Ibero-Roman	2	6	-	-	-	8
7. Medieval	-	1	-	-	-	1
TOTAL						

STRATA 2: COMPARISON OF SITES BEFORE AND AFTER SURVEY

No. of Sites Known Before Survey	Isolated Finds	Farmsteads	Settlements	Cemeteries	Rockshelters/ Caves	Total
1. Palaeolithic/Epipalaeolithic	-	-	-	-	-	0
2. Neolithic	-	-	-	-	-	0
3. Copper Age	-	-	-	-	-	0
4. Argaric Bronze Age	-	-	1?	-	-	1?
5. Late-Final Bronze Age	-	-	1	-	-	1
6. Ibero-Roman	-	-	4	-	-	4
7. Medieval	-	-	3	-	-	3
TOTAL	0	0	8-9	0	0	8-9
No. of Sites Found During Survey (Within Sampling Units)	Isolated Finds	Farmsteads	Settlements	Cemeteries	Rockshelters/ Caves	Total
1. Palaeolithic/Epipalaeolithic	-	-	-	-	-	0
2. Neolithic	-	-	-	-	-	0
3. Copper Age	2 ⁺	-	-	-	-	2 ⁺
4. Argaric Bronze Age	-	-	-	-	-	0
5. Late-Final Bronze Age	-	-	-	-	-	0
6. Ibero-Roman	1	-	-	-	-	1
7. Medieval	1	-	-	-	-	1
TOTAL	4	0	0	0	0	4

STRATA 2: COMPARISON OF SITES BEFORE AND AFTER SURVEY (Continued)

No. of Sites Found During Survey (Outside Sampling Units)	Isolated Finds	Farmsteads	Settlements	Cemeteries	Rockshelters/ Caves	Total
1. Palaeolithic/Epipalaeolithic	-	-	-	-	-	0
2. Neolithic	-	-	-	-	-	0
3. Copper Age	-	-	-	-	-	0
4. Argaric Bronze Age	-	-	-	-	-	0
5. Late-Final Bronze Age	-	-	-	-	-	0
6. Ibero-Roman	-	-	-	-	-	0
7. Medieval	-	-	-	-	-	0
TOTAL	0	0	0	0	0	0
No. of Sites Found During Survey (Total)	Isolated Finds	Farmsteads	Settlements	Cemeteries	Rockshelters/ Caves	Total
1. Palaeolithic/Epipalaeolithic	-	-	-	-	-	0
2. Neolithic	-	-	-	-	-	0
3. Copper Age	2 ⁺	-	-	-	-	2 ⁺
4. Argaric Bronze Age	-	-	-	-	-	0
5. Late-Final Bronze Age	-	-	-	-	-	0
6. Ibero-Roman	1	-	-	-	-	1
7. Medieval	1	-	-	-	-	1
TOTAL	4	0	0	0	0	4

STRATA 2: COMPARISON OF SITES KNOWN BEFORE AND AFTER SURVEY (Continued)

Combined Total of Sites Known Before and After Survey	Isolated Finds	Farmsteads	Settlements	Cemeteries	Rockshelters/ Caves	Total
1. Palaeolithic/Epipalaeolithic	-	-	-	-	-	0
2. Neolithic	-	-	-	-	-	0
3. Copper Age	2 ⁺	-	-	-	-	2 ⁺
4. Argaric Bronze Age	-	-	1?	-	-	1?
5. Late-Final Bronze Age	-	-	1	-	-	1
6. Ibero-Roman	1	-	4	-	-	5
7. Medieval	1	-	3	-	-	4
TOTAL:	4	-	8-9	0	0	12-13

- Claims for an Argaric occupation at El Castellar (Lull 1983), underlying later Bronze Age, Iberian and Roman levels at the site, have not been substantiated by either a description of diagnostic materials or the publication of any artefacts from the site.
- Two separate sets of finds are involved here, both of which are composed of hand-made, prehistoric pottery that could date to either the Copper or Bronze Age.

NOTE: Also, six non-descript flints of unknown date were found in the vicinity of La Zarza, on the north-east border of the survey area - within Strata 2.

STRATA 3: COMPARISON OF SITES BEFORE AND AFTER SURVEY

No. of Sites Known Before Survey	Isolated Finds	Farmsteads	Settlements	Cemeteries	Rockshelters/ Caves	Total
1. Palaeolithic/Epipalaeolithic	-	-	-	-	-	0
2. Neolithic	-	-	-	-	-	0
3. Copper Age	-	-	-	-	-	0
4. Argaric Bronze Age	-	-	1-2	-	-	1-2
5. Late-Final Bronze Age	-	-	1?	-	-	1?
6. Ibero-Roman	-	-	-	-	-	0
7. Medieval	-	-	1	-	-	0
TOTAL	0	0	3-4	0	0	3-4
No. of Sites Found During Survey (Within Sampling Units)	Isolated Finds	Farmsteads	Settlements	Cemeteries	Rockshelters/ Caves	Total
1. Palaeolithic/Epipalaeolithic	-	-	-	-	-	0
2. Neolithic	-	-	-	-	-	0
3. Copper Age	-	-	-	-	-	0
4. Argaric Bronze Age	-	-	-	-	-	0
5. Late-Final Bronze Age	-	-	-	-	-	0
6. Ibero-Roman	-	1	-	-	-	1
7. Medieval	-	1	-	-	-	1
TOTAL	0	2	0	0	0	2

STRATA 3: COMPARISON OF SITES BEFORE AND AFTER SURVEY (Continued)

No. of Sites Found During Survey (Outside Sampling Units)	Isolated Finds	Farmsteads	Settlements	Cemeteries	Rockshelters/ Caves	Total
1. Palaeolithic/Epipalaeolithic	-	-	-	-	-	0
2. Neolithic	-	-	-	-	-	0
3. Copper Age	-	-	1	1	-	2
4. Argaric Bronze Age	-	-	-	-	-	0
5. Late-Final Bronze Age	-	-	-	-	-	0
6. Ibero-Roman	-	-	-	-	-	0
7. Medieval	-	-	-	-	-	0
TOTAL	0	0	1	1	0	2

No. of Sites Found During Survey (Total)	Isolated Finds	Farmsteads	Settlements	Cemeteries	Rockshelters/ Caves	Total
1. Palaeolithic/Epipalaeolithic	-	-	-	-	-	0
2. Neolithic	-	-	-	-	-	0
3. Copper Age	-	-	1	1	-	2
4. Argaric Bronze Age	-	-	-	-	-	0
5. Late-Final Bronze Age	-	-	-	-	-	0
6. Ibero-Roman	-	1	-	-	-	1
7. Medieval	-	1	-	-	-	1
TOTAL	0	2	1	1	0	4

STRATA 3: COMPARISON OF SITES KNOWN BEFORE AND AFTER SURVEY (Continued)

Combined Total of Sites Known Before and After Survey	Isolated Finds	Farmsteads	Settlements	Cemeteries	Rockshelters/ Caves	Total
1. Palaeolithic/Epipalaeolithic	-	-	-	-	-	0
2. Neolithic	-	-	-	-	-	0
3. Copper Age	-	-	1	1	-	2
4. Argaric Bronze Age	-	-	1-2	-	-	1-2
5. Late-Final Bronze Age	-	-	1?	-	-	1?
6. Ibero-Roman	-	1	-	-	-	1
7. Medieval	-	1	1	-	-	2
TOTAL	0	2	4-5	1	0	7-8

- Claims for an Argaric occupation under the Medieval castle at Alhama de Murcia (Lull 1983), like similar claims for the site of El Castellar nearby, have yet to be supported by any descriptions or illustrations of material. Surface finds at the Alhama castle, however, do appear to suggest an occupation during the Bronze Age; it is unclear whether this material dates to the Argaric, the Late-Final Bronze Age, or both.

The site of Cabezo Gordo, on the other hand, is clearly an Argaric settlement - though it is also unpublished. Material from this site includes typical Argaric metalwork, carinated pottery, cist and urn graves, rectangular house plans and other characteristic features. A large quantity of material from Cabezo Gordo is housed in the Museo Provincial in Murcia.

STRATA 4 : COMPARISON OF SITES BEFORE AND AFTER SURVEY

No. of Sites Known Before Survey	Isolated Finds	Farmsteads	Settlements	Cemeteries	Rockshelters/ Caves	Total
1. Palaeolithic/Epipalaeolithic	-	-	-	-	1	1
2. Neolithic	-	-	-	-	-	0
3. Copper Age	-	-	-	1	-	1
4. Argaric Bronze Age	-	-	-	-	-	0
5. Late-Final Bronze Age	-	-	-	-	-	0
6. Ibero-Roman	-	1	1	-	-	2
7. Medieval	-	-	-	-	-	0
TOTAL	0	1	1	1	1	4
No. of Sites Found During Survey (Within Sampling Units)	Isolated Finds	Farmsteads	Settlements	Cemeteries	Rockshelters/ Caves	Total
1. Palaeolithic/Epipalaeolithic	-	-	-	-	-	0
2. Neolithic	-	-	-	-	-	0
3. Copper Age	1?	-	-	2	-	2-3
4. Argaric Bronze Age	1?	-	-	-	-	1?
5. Late-Final Bronze Age	-	-	-	-	-	0
6. Ibero-Roman	-	2	-	-	-	2
7. Medieval	-	-	-	-	-	0
TOTAL	1-2	2	0	2	0	5-6

STRATA 4 : COMPARISON OF SITES BEFORE AND AFTER SURVEY (Continued)

No. of Sites Found During Survey (Outside Sampling Units)	Isolated Finds	Farmsteads	Settlements	Cemeteries	Rockshelters/ Caves	Total
1. Palaeolithic/Epipalaeolithic	-	-	-	-	-	0
2. Neolithic	-	-	-	-	-	0
3. Copper Age	-	-	1	2	-	3
4. Argaric Bronze Age	-	-	1	-	-	1
5. Late-Final Bronze Age	-	-	-	-	-	0
6. Ibero-Roman	-	2	-	-	1	3
7. Medieval	-	1	-	-	-	1
TOTAL	0	3	2	2	1	8
No. of Sites Found During Survey (Total)	Isolated Finds	Farmsteads	Settlements	Cemeteries	Rockshelters/ Caves	Total
1. Palaeolithic/Epipalaeolithic	-	-	-	-	-	0
2. Neolithic	-	-	-	-	-	0
3. Copper Age	1?	-	1	4	-	5-6
4. Argaric Bronze Age	1?	-	1	-	-	1-2
5. Late-Final Bronze Age	-	-	-	-	-	0
6. Ibero-Roman	-	4	-	-	-	5
7. Medieval	-	1	-	-	-	1
TOTAL	1-2	5	2	4	0	13-14

STRATA 4: COMPARISON OF SITES KNOWN BEFORE AND AFTER SURVEY (Continued)

Combined Total of Sites Known Before and After Survey	Isolated Finds	Farmsteads	Settlements	Cemeteries	Rockshelters/ Caves	Total
1. Palaeolithic/Epipalaeolithic	-	-	-	-	1	1
2. Neolithic	-	-	-	-	-	0
3. Copper Age	1?	-	1	5	-	6-7
4. Argaric Bronze Age	1?	-	1	-	-	1-2
5. Late-Final Bronze Age	-	-	-	-	-	0
6. Ibero-Roman	-	5	1	-	-	6
7. Medieval	-	1	-	-	-	1
TOTAL	1-2	6	3	5	1	16-17

- These finds include two retouched flints and several other flakes, the former appearing to be either Copper Age or Bronze Age because of their serrated appearance.

STRATA 5: COMPARISON OF SITES BEFORE AND AFTER SURVEY

No. of Sites Known Before Survey	Isolated Finds	Farmsteads	Settlements	Cemeteries	Rockshelters/ Caves	Total
1. Palaeolithic/Epipalaeolithic	-	-	-	-	2	2
2. Neolithic	-	-	-	-	-	0
3. Copper Age	-	-	2	1	1?	3-4
4. Argaric Bronze Age	-	-	3	-	1?	3-4
5. Late-Final Bronze Age	1	-	-	-	-	1
6. Ibero-Roman	1	-	-	1	-	2
7. Medieval	-	-	1	-	-	1
TOTAL	2	0	6	2	3-4	13-14
No. of Sites Found During Survey (Within Sampling Units)	Isolated Finds	Farmsteads	Settlements	Cemeteries	Rockshelters/ Caves	Total
1. Palaeolithic/Epipalaeolithic	-	-	-	-	1	1
2. Neolithic	-	-	-	-	-	0
3. Copper Age	4?	-	1	2	-	3-7
4. Argaric Bronze Age	4?	-	-	-	-	1-4
5. Late-Final Bronze Age (?)	-	-	2	-	-	2
6. Ibero-Roman	-	-	1	-	2	3
7. Medieval	-	2	-	-	-	2
TOTAL	4-8	2	4	2	3	15-19

STRATA 5: COMPARISON OF SITES BEFORE AND AFTER SURVEY (Continued)

No. of Sites Found During Survey (Outside Sampling Units)	Isolated Finds	Farmsteads	Settlements	Cemeteries	Rockshelters/ Caves	Total
1. Palaeolithic/Epipalaeolithic	-	-	-	-	-	0
2. Neolithic	-	-	-	-	-	0
3. Copper Age	1?	-	2	4	-	6-7
4. Argaric Bronze Age	1?	-	2	-	-	2-3
5. Late-Final Bronze Age	-	-	-	-	-	0
6. Ibero-Roman	-	1	-	-	2	3
7. Medieval	-	-	1	1	-	2
TOTAL	1-2	1	5	5	2	14-15
No. of Sites Found During Survey (Total)	Isolated Finds	Farmsteads	Settlements	Cemeteries	Rockshelters/ Caves	Total
1. Palaeolithic/Epipalaeolithic	-	-	-	-	1	1
2. Neolithic	-	-	-	-	-	0
3. Copper Age	4?	-	3	6	-	9-13
4. Argaric Bronze Age	4?	-	2	-	-	2-6
5. Late-Final Bronze Age	-	-	2	-	-	2
6. Ibero-Roman	-	1	1	-	4	6
7. Medieval	-	2	1	1	-	4
TOTAL	4-8	3	9	7	5	28-32

STRATA 5: COMPARISON OF SITES KNOWN BEFORE AND AFTER SURVEY (Continued)

Combined Total of Sites Known Before and After Survey	Isolated Finds	Farmsteads	Settlements	Cemeteries	Rockshelters/ Caves	Total
1. Palaeolithic/Epipalaeolithic	-	-	-	-	3	3
2. Neolithic	-	-	-	-	-	0
3. Copper Age	4?	-	5	7	1?	12-17
4. Argaric Bronze Age	4?	-	5	-	1?	5-10
5. Late-Final Bronze Age	1	-	2	-	-	3
6. Ibero-Roman	1	1	1	1	4	8
7. Medieval	-	2	2	1	-	5
TOTAL	6-10	3	15	9	8-9	41-46

STRATA 6 : COMPARISON OF SITES BEFORE AND AFTER SURVEY

No. of Sites Known Before Survey	Isolated Finds	Farmsteads	Settlements	Cemeteries	Rockshelters/ Caves	Total
1. Palaeolithic/Epipalaeolithic	-	-	-	-	-	0
2. Neolithic	-	-	-	-	-	0
3. Copper Age	-	-	-	-	-	0
4. Argaric Bronze Age	-	-	1?*	-	-	1?*
5. Late-Final Bronze Age	-	-	1?*	-	-	1?*
6. Ibero-Roman	-	-	-	-	-	0
7. Medieval	-	-	-	-	-	0
TOTAL	0	0	1-2	0	0	1

No. of Sites Found During Survey (Within Sampling Units)	Isolated Finds	Farmsteads	Settlements	Cemeteries	Rockshelters/ Caves	Total
1. Palaeolithic/Epipalaeolithic	-	-	-	-	-	0
2. Neolithic	-	-	-	-	-	0
3. Copper Age	-	-	-	-	-	0
4. Argaric Bronze Age	-	-	-	-	-	0
5. Late-Final Bronze Age	-	-	-	-	-	0
6. Ibero-Roman	-	-	-	-	-	0
7. Medieval	-	-	-	-	-	0
TOTAL	0	0	0	0	0	0

STRATA 6 : COMPARISON OF SITES BEFORE AND AFTER SURVEY (Continued)

No. of Sites Found During Survey (Outside Sampling Units)	Isolated Finds	Farmsteads	Settlements	Cemeteries	Rockshelters/ Caves	Total
1. Palaeolithic/Epipalaeolithic	-	-	-	-	-	0
2. Neolithic	-	-	-	-	-	0
3. Copper Age	-	-	-	-	-	0
4. Argaric Bronze Age	-	-	-	-	-	0
5. Late-Final Bronze Age	-	-	-	-	-	0
6. Ibero-Roman	-	-	-	-	-	0
7. Medieval	-	-	-	-	-	0
TOTAL	0	0	0	0	0	0

No. of Sites Found During Survey (Total)	Isolated Finds	Farmsteads	Settlements	Cemeteries	Rockshelters/ Caves	Total
1. Palaeolithic/Epipalaeolithic	-	-	-	-	-	0
2. Neolithic	-	-	-	-	-	0
3. Copper Age	-	-	-	-	-	0
4. Argaric Bronze Age	-	-	-	-	-	0
5. Late-Final Bronze Age	-	-	-	-	-	0
6. Ibero-Roman	-	-	-	-	-	0
7. Medieval	-	-	-	-	-	0
TOTAL	0	0	0	0	0	0

STRATA 6 : COMPARISON OF SITES KNOWN BEFORE AND AFTER SURVEY (Continued)

Combined Total of Sites Known Before and After Survey	Isolated Finds	Farmsteads	Settlements	Cemeteries	Rockshelters/ Caves	Total
1. Palaeolithic/Epipalaeolithic	-	-	-	-	-	0
2. Neolithic	-	-	-	-	-	0
3. Copper Age	-	-	-	-	-	0
4. Argaric Bronze Age	-	-	-	-	-	0
5. Late-Final Bronze Age	-	-	1?+	-	-	1?+
6. Ibero-Roman	-	-	1?+	-	-	1?+
7. Medieval	-	-	-	-	-	0
TOTAL	0	0	1-2	0	0	1-2

+ - The Argaric site of Los Picaricos was reported by Martinez Santa Olalla et. al. (1947; 16, Figure B; 22) but never excavated. Materials from the site have not been published or described, and the only information available at present is the general location of the site and the statement that the settlement was small. As in the case of other Bronze Age sites reported in the region, it is unclear whether this site is indeed Argaric, or whether it is, instead, Late-Final Bronze Age in date. This site could not be located on the ground during fieldwork - but more intensive survey may help to reveal the precise location of Los Picaricos.

STRATA 7 : COMPARISON OF SITES BEFORE AND AFTER SURVEY

No. of Sites Known Before Survey	Isolated Finds	Farmsteads	Settlements	Cemeteries	Rockshelters/ Caves	Total
1. Palaeolithic/Epipalaeolithic	-	-	-	-	-	0
2. Neolithic	-	-	-	-	-	0
3. Copper Age	-	-	-	-	-	0
4. Argaric Bronze Age	-	-	-	-	-	0
5. Late-Final Bronze Age	-	-	-	-	-	0
6. Ibero-Roman	-	-	-	-	-	0
7. Medieval	-	-	-	-	-	0
TOTAL	0	0	0	0	0	0
No. of Sites Found During Survey (Within Sampling Units)	Isolated Finds	Farmsteads	Settlements	Cemeteries	Rockshelters/ Caves	Total
1. Palaeolithic/Epipalaeolithic	-	-	-	-	-	0
2. Neolithic	-	-	-	-	-	0
3. Copper Age	-	-	-	-	-	0
4. Argaric Bronze Age	-	-	-	-	-	0
5. Late-Final Bronze Age	-	-	-	-	-	0
6. Ibero-Roman	-	1	-	-	-	1
7. Medieval	-	-	-	-	-	0
TOTAL	0	1	0	0	0	1

STRATA 7: COMPARISON OF SITES BEFORE AND AFTER SURVEY (Continued)

No. of Sites Found During Survey (Outside Sampling Units)	Isolated Finds	Farmsteads	Settlements	Cemeteries	Rockshelters/ Caves	Total
1. Palaeolithic/Epipalaeolithic	-	-	-	-	1	1
2. Neolithic	-	-	-	-	-	0
3. Copper Age	-	-	-	-	1?	1?
4. Archaic Bronze Age	-	-	-	-	1?	1?
5. Late-Final Bronze Age	-	-	-	-	-	0
6. Ibero-Roman	-	-	-	-	-	0
7. Medieval	-	-	-	-	-	0
TOTAL	0	0	0	0	2-3	2-3
No. of Sites Found During Survey (Total)	Isolated Finds	Farmsteads	Settlements	Cemeteries	Rockshelters/ Caves	Total
1. Palaeolithic/Epipalaeolithic	-	-	-	-	1	1
2. Neolithic	-	-	-	-	-	0
3. Copper Age	-	-	-	-	1?	1?
4. Archaic Bronze Age	-	-	-	-	1?	1?
5. Late-Final Bronze Age	-	-	-	-	-	0
6. Ibero-Roman	-	1	-	-	-	1
7. Medieval	-	-	-	-	-	0
TOTAL	0	1	0	0	1-3	2-4

STRATA 7: COMPARISON OF SITES KNOWN BEFORE AND AFTER SURVEY (Continued)

Combined Total of Sites Known Before and After Survey	Isolated Finds	Farmsteads	Settlements	Cemeteries	Rockshelters/ Caves	Total
1. Palaeolithic/Epipalaeolithic	-	-	-	-	1	1
2. Neolithic	-	-	-	-	-	0
3. Copper Age	-	-	-	-	1?	1?
4. Archaic Bronze Age	-	-	-	-	1?	1?
5. Late-Final Bronze Age	-	-	-	-	-	0
6. Ibero-Roman	-	1	-	-	-	1
7. Medieval	-	-	-	-	-	0
TOTAL	0	1	0	0	1-3	2-4

STRATA 8: COMPARISON OF SITES BEFORE AND AFTER SURVEY

No. of Sites Known Before Survey	Isolated Finds	Farmsteads	Settlements	Cemeteries	Rockshelters/ Caves	Total
1. Palaeolithic/Epipalaeolithic	-	-	-	-	-	0
2. Neolithic	-	-	-	-	-	0
3. Copper Age	-	-	-	-	-	0
4. Argaric Bronze Age	-	-	1	-	-	0
5. Late-Final Bronze Age	-	-	-	-	-	0
6. Ibero-Roman	-	-	1	-	-	1
7. Medieval	-	-	1	-	-	1
TOTAL	-	-	3	-	-	3

No. of Sites Found During Survey (Within Sampling Units)	Isolated Finds	Farmsteads	Settlements	Cemeteries	Rockshelters/ Caves	Total
1. Palaeolithic/Epipalaeolithic	-	-	-	-	-	0
2. Neolithic	-	-	-	-	-	0
3. Copper Age	1	-	-	-	-	1
4. Argaric Bronze Age	-	-	-	-	-	0
5. Late-Final Bronze Age	-	-	1	-	-	1
6. Ibero-Roman	-	-	-	-	-	0
7. Medieval	-	1	-	-	-	1
TOTAL	1	1	1	0	0	3

STRATA 8: COMPARISON OF SITES BEFORE AND AFTER SURVEY (Continued)

No. of Sites Found During Survey (Outside Sampling Units)	Isolated Finds	Farmsteads	Settlements	Cemeteries	Rockshelters/ Caves	Total
1. Palaeolithic/Epipalaeolithic	-	-	-	-	1	1
2. Neolithic	-	-	-	-	-	0
3. Copper Age	-	-	-	-	-	0
4. Argaric Bronze Age	-	-	-	-	-	0
5. Late-Final Bronze Age	-	-	-	-	-	0
6. Ibero-Roman	-	-	-	-	-	0
7. Medieval	-	-	-	-	-	0
TOTAL	0	0	0	0	1	1

No. of Sites Found During Survey (Total)	Isolated Finds	Farmsteads	Settlements	Cemeteries	Rockshelters/ Caves	Total
1. Palaeolithic/Epipalaeolithic	-	-	-	-	1	1
2. Neolithic	-	-	-	-	-	0
3. Copper Age	1	-	-	-	-	1
4. Argaric Bronze Age	-	-	-	-	-	0
5. Late-Final Bronze Age (?)	-	-	1	-	-	1
6. Ibero-Roman	-	-	-	-	-	0
7. Medieval	-	1	-	-	-	1
TOTAL	1	1	1	0	1	4

STRATA 8 : COMPARISON OF SITES KNOWN BEFORE AND AFTER SURVEY (Continued)

Combined Total of Sites Known Before and After Survey	Isolated Finds	Farmsteads	Settlements	Cemeteries	Rockshelters/ Caves	Total
1. Palaeolithic/Epipalaeolithic	-	-	-	-	1	1
2. Neolithic	-	-	-	-	-	0
3. Copper Age	1	-	-	-	-	1
4. Argaric Bronze Age	-	-	1	-	-	1
5. Late-Final Bronze Age (?)	-	-	1	-	-	1
6. Ibero-Roman	-	-	1	-	-	1
7. Medieval	-	1	1	-	-	2
TOTAL	1	1	4	0	1	7

STRATA 9 : COMPARISON OF SITES BEFORE AND AFTER SURVEY

No. of Sites Known Before Survey	Isolated Finds	Farmsteads	Settlements	Cemeteries	Rockshelters/ Caves	Total
1. Palaeolithic/Epipalaeolithic	-	-	-	-	-	0
2. Neolithic	-	-	-	-	-	0
3. Copper Age	-	-	-	-	-	0
4. Argaric Bronze Age	-	-	-	-	-	0
5. Late-Final Bronze Age	-	-	-	-	-	0
6. Ibero-Roman	-	-	-	-	-	0
7. Medieval	-	-	-	-	-	0
TOTAL	0	0	0	0	0	0
No. of Sites Found During Survey (Within Sampling Units)	Isolated Finds	Farmsteads	Settlements	Cemeteries	Rockshelters/ Caves	Total
1. Palaeolithic/Epipalaeolithic	-	-	-	-	-	0
2. Neolithic	-	-	-	-	-	0
3. Copper Age	-	-	-	-	-	0
4. Argaric Bronze Age	-	-	-	-	-	0
5. Late-Final Bronze Age	-	-	-	-	-	0
6. Ibero-Roman	-	-	-	-	-	0
7. Medieval	-	-	-	-	-	0
TOTAL	0	0	0	0	0	0

STRATA 9: COMPARISON OF SITES BEFORE AND AFTER SURVEY (Continued)

No. of Sites Found During Survey (Outside Sampling Units)	Isolated Finds	Farmsteads	Settlements	Cemeteries	Rockshelters/ Caves	Total
1. Palaeolithic/Epipalaeolithic	-	-	-	-	-	0
2. Neolithic	-	-	-	-	-	0
3. Copper Age	-	-	-	-	-	0
4. Argaric Bronze Age	-	-	-	-	-	0
5. Late-Final Bronze Age	-	-	-	-	-	0
6. Ibero-Roman	-	-	-	-	-	0
7. Medieval	-	-	-	-	-	0
TOTAL	0	0	0	0	0	0
No. of Sites Found During Survey (Total)	Isolated Finds	Farmsteads	Settlements	Cemeteries	Rockshelters/ Caves	Total
1. Palaeolithic/Epipalaeolithic	-	-	-	-	-	0
2. Neolithic	-	-	-	-	-	0
3. Copper Age	-	-	-	-	-	0
4. Argaric Bronze Age	-	-	-	-	-	0
5. Late-Final Bronze Age	-	-	-	-	-	0
6. Ibero-Roman	-	-	-	-	-	0
7. Medieval	-	-	-	-	-	0
TOTAL	0	0	0	0	0	0

STRATA 9: COMPARISON OF SITES KNOWN BEFORE AND AFTER SURVEY (Continued)

Combined Total of Sites Known Before and After Survey	Isolated Finds	Farmsteads	Settlements	Cemeteries	Rockshelters/ Caves	Total
1. Palaeolithic/Epipalaeolithic	-	-	-	-	-	0
2. Neolithic	-	-	-	-	-	0
3. Copper Age	-	-	-	-	-	0
4. Argaric Bronze Age	-	-	-	-	-	0
5. Late-Final Bronze Age	-	-	-	-	-	0
6. Ibero-Roman	-	-	-	-	-	0
7. Medieval	-	-	-	-	-	0
TOTAL	0	0	0	0	0	0

STRATA 11: COMPARISON OF SITES BEFORE AND AFTER SURVEY

No. of Sites Known Before Survey	Isolated Finds	Farmsteads	Settlements	Cemeteries	Rockshelters/ Caves	Total
1. Palaeolithic/Epipalaeolithic	-	-	-	-	-	0
2. Neolithic	-	-	-	-	-	0
3. Copper Age	-	-	-	-	-	0
4. Argaric Bronze Age	-	-	-	-	-	0
5. Late-Final Bronze Age	-	-	-	-	-	0
6. Ibero-Roman	-	-	-	-	-	0
7. Medieval	-	-	-	-	-	0
TOTAL	0	0	0	0	0	0
No. of Sites Found During Survey (Within Sampling Units)	Isolated Finds	Farmsteads	Settlements	Cemeteries	Rockshelters/ Caves	Total
1. Palaeolithic/Epipalaeolithic	-	-	-	-	-	0
2. Neolithic	-	-	-	-	-	0
3. Copper Age	-	-	-	-	1?	1?
4. Argaric Bronze Age	-	-	-	-	1?	1?
5. Late-Final Bronze Age	-	-	-	-	-	0
6. Ibero-Roman	-	-	-	-	1	1
7. Medieval	-	-	-	-	1	1
TOTAL	0	0	0	0	3-4	3-4

STRATA 11: COMPARISON OF SITES BEFORE AND AFTER SURVEY (Continued)

No. of Sites Found During Survey (Outside Sampling Units)	Isolated Finds	Farmsteads	Settlements	Cemeteries	Rockshelters/ Caves	Total
1. Palaeolithic/Epipalaeolithic	-	-	-	-	-	0
2. Neolithic	-	-	-	-	-	0
3. Copper Age	-	-	-	-	-	0
4. Argaric Bronze Age	-	-	-	-	-	0
5. Late-Final Bronze Age	-	-	-	-	-	0
6. Ibero-Roman	-	-	-	-	-	0
7. Medieval	-	-	-	-	-	0
TOTAL	0	0	0	0	0	0
No. of Sites Found During Survey (Total)	Isolated Finds	Farmsteads	Settlements	Cemeteries	Rockshelters/ Caves	Total
1. Palaeolithic/Epipalaeolithic	-	-	-	-	-	0
2. Neolithic	-	-	-	-	-	0
3. Copper Age	-	-	-	-	1?	1?
4. Argaric Bronze Age	-	-	-	-	1?	1?
5. Late-Final Bronze Age	-	-	-	-	-	0
6. Ibero-Roman	-	-	-	-	1	1
7. Medieval	-	-	-	-	1	1
TOTAL	0	0	0	0	3-4	3-4

STRATA 11: COMPARISON OF SITES KNOWN BEFORE AND AFTER SURVEY (Continued)

Combined Total of Sites Known Before and After Survey	Isolated Finds	Farmsteads	Settlements	Cemeteries	Rockshelters/ Caves	Total
1. Palaeolithic/Epipalaeolithic	-	-	-	-	-	0
2. Neolithic	-	-	-	-	-	0
3. Copper Age	-	-	-	-	1?	1?
4. Argaric Bronze Age	-	-	-	-	1?	1?
5. Late-Final Bronze Age	-	-	-	-	-	0
6. Ibero-Roman	-	-	-	-	1	1
7. Medieval	-	-	-	-	1	1
TOTAL	0	0	0	0	3-4	3-4

STRATA 12: COMPARISON OF SITES BEFORE AND AFTER SURVEY

No. of Sites Known Before Survey	Isolated Finds	Farmsteads	Settlements	Cemeteries	Rockshelters/ Caves	Total
1. Palaeolithic/Epipalaeolithic	-	-	-	-	-	0
2. Neolithic	-	-	-	-	-	0
3. Copper Age	-	-	-	-	-	0
4. Argaric Bronze Age	-	-	-	-	-	0
5. Late-Final Bronze Age	-	-	-	-	-	0
6. Ibero-Roman	-	-	-	-	-	0
7. Medieval	-	-	-	-	-	0
TOTAL	0	0	0	0	0	0
No. of Sites Found During Survey (Within Sampling Units)	Isolated Finds	Farmsteads	Settlements	Cemeteries	Rockshelters/ Caves	Total
1. Palaeolithic/Epipalaeolithic	-	-	-	-	-	0
2. Neolithic	-	-	-	-	-	0
3. Copper Age	-	-	-	-	-	0
4. Argaric Bronze Age	-	-	-	-	-	0
5. Late-Final Bronze Age	-	-	-	-	-	0
6. Ibero-Roman	-	-	-	-	-	0
7. Medieval	-	-	-	-	-	0
TOTAL	0	0	0	0	0	0

STRATA 12: COMPARISON OF SITES BEFORE AND AFTER SURVEY (Continued)

No. of Sites Found During Survey (Outside Sampling Units)	Isolated Finds	Farmsteads	Settlements	Cemeteries	Rockshelters/Caves	Total
1. Palaeolithic/Epipalaeolithic	-	-	-	-	-	0
2. Neolithic	-	-	-	-	-	0
3. Copper Age	-	-	-	-	-	0
4. Archaic Bronze Age	-	-	-	-	-	0
5. Late-Final Bronze Age	-	-	-	-	-	0
6. Ibero-Roman	-	-	-	-	-	0
7. Medieval	-	-	-	-	-	0
TOTAL	0	0	0	0	0	0
No. of Sites Found During Survey (Total)	Isolated Finds	Farmsteads	Settlements	Cemeteries	Rockshelters/Caves	Total
1. Palaeolithic/Epipalaeolithic	-	-	-	-	-	0
2. Neolithic	-	-	-	-	-	0
3. Copper Age	-	-	-	-	-	0
4. Archaic Bronze Age	-	-	-	-	-	0
5. Late-Final Bronze Age	-	-	-	-	-	0
6. Ibero-Roman	-	-	-	-	-	0
7. Medieval	-	-	-	-	-	0
TOTAL	0	0	0	0	0	0

STRATA 12: COMPARISON OF SITES KNOWN BEFORE AND AFTER SURVEY (Continued)

Combined Total of Sites Known Before and After Survey	Isolated Finds	Farmsteads	Settlements	Cemeteries	Rockshelters/Caves	Total
1. Palaeolithic/Epipalaeolithic	-	-	-	-	-	0
2. Neolithic	-	-	-	-	-	0
3. Copper Age	-	-	-	-	-	0
4. Archaic Bronze Age	-	-	-	-	-	0
5. Late-Final Bronze Age	-	-	-	-	-	0
6. Ibero-Roman	-	-	-	-	-	0
7. Medieval	-	-	-	-	-	0
TOTAL	0	0	0	0	0	0

COMPARISON OF SITES BEFORE AND AFTER SURVEY: BY STRATUM

Sites Known Before Survey

Stratum	Isolated Finds	Farmsteads	Settlements	Cemeteries	Rockshelters/ Caves	Total
1	1		3 ^{+▲}			4
1A						0
2			5 ^{+▲}			5
3			3 ⁺			3
4		1	1	1	1	4
5	1		6	1	2	10
6			1			1
7						0
8			2			2
9						0
11						0
12						0
TOTAL	2	1	21	2	3	32
REAL TOTAL	2	1	19	2	3	29

⁺ One site was counted three times since it was equally well represented in Strata 1, 2 and 3.

[▲] Another site was counted twice - once in Stratum 1 and again in Stratum 2 - since the same site was equally well represented in both strata.

COMPARISON OF SITES BEFORE AND AFTER SURVEY: BY STRATA

Sites Found During Survey

Stratum	Isolated Finds	Farmsteads	Settlements	Cemeteries	Rockshelters/ Caves	Total
1	1	1	1			3
1A	1	7	3			11
2	5					5
3		1	1	1		3
4	1	4	2	3	1	11
5	3	3	7	10 ⁺	4 ⁺	27
6						0
7		1			1	2
8	1	1	1		2	5
9						0
11					1	1
12						0
TOTAL	12	18	15	14	9	68
REAL TOTAL	12	18	15	13.5	8.5	67

⁺ In two cases a site has been counted twice, once as a cemetery and once as a rockshelter/cave - the latter apparently not associated with any burial activities - since site function appears to have changed through time. In all other cases, the general character of the site (e.g. as a settlement) remained constant, such that sites were counted only once.

COMPARISON OF SITES BEFORE AND AFTER SURVEY: BY STRATUM

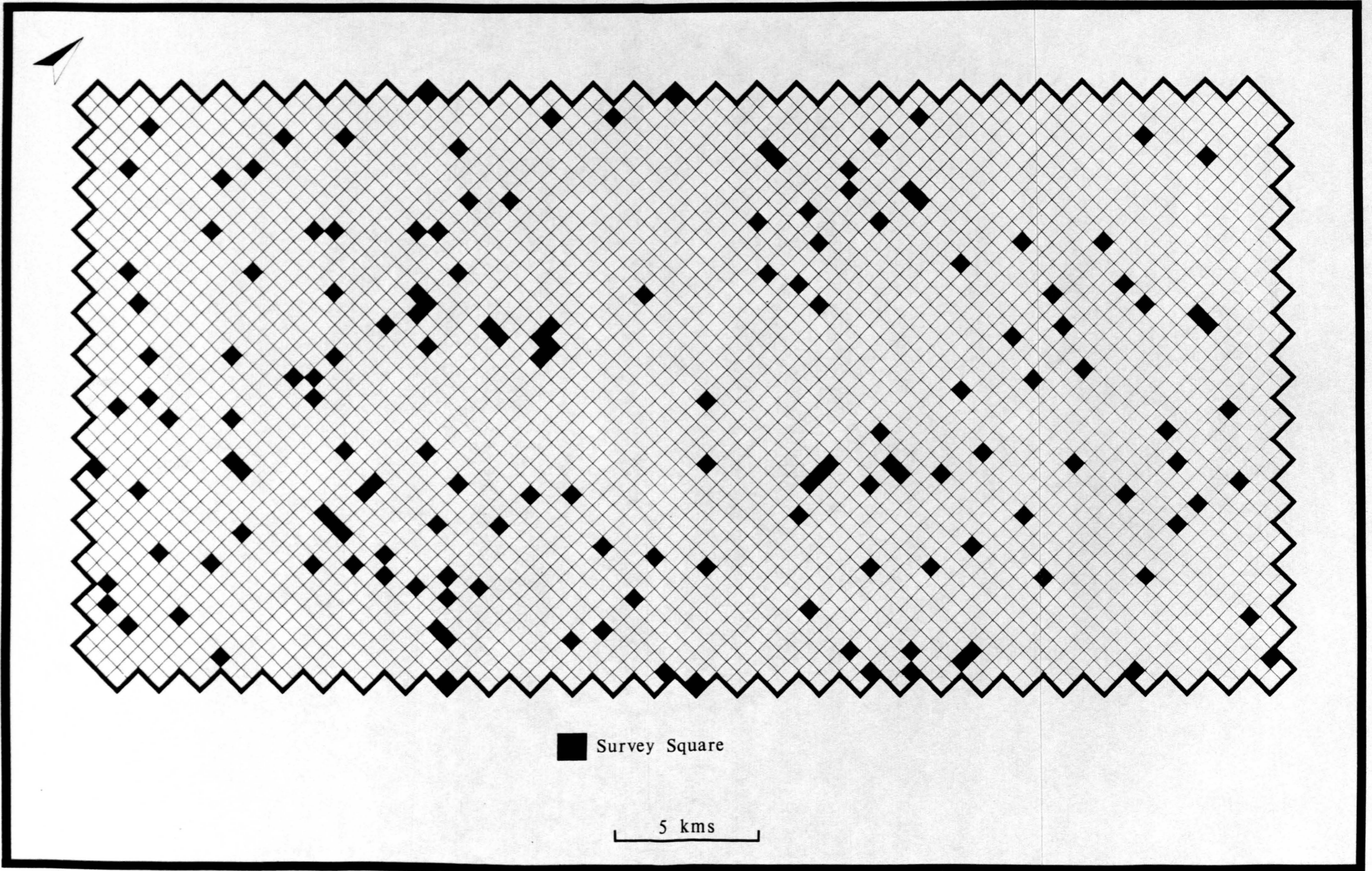
Combined Total of Sites Known Before Survey and Sites Found in Survey

Stratum	Isolated Finds	Farmsteads	Settlements	Cemeteries	Rockshelters/ Caves	Total
1	2	1	4 ⁺			7
1A	1	7	3			11
2	5		5 ⁺			10
3		1	4 ⁺	1		6
4	1	5	1	4	2	15
5	4	3	13	11	6	37
6			1			1
7		1			1	2
8	1	1	3		2	7
9						0
11					1	1
12						0
TOTAL	14	19	36	16	12	97
REAL TOTAL	14	19	33	15.5	11.5	93

TOTAL = the total number of sites, when: (a) individual sites are counted more than once because of changes in site function through time; and (b) a site which is equally represented in two or more strata is counted more than once

REAL TOTAL = the total number of sites, when: (a) individual sites are counted only once (irrespective of any changes in site function through time); and (b) a site which is equally well represented in two or more strata is counted as one single site

500 x 500 m Squares Investigated During the Survey



GENERAL DATA FOR PALAEO-LITHIC-MEDIEVAL SITES FOUND IN SURVEY

Explanation of Tables

Survey Square: The number of the survey square in which the site is found

Stratum: The stratum in which the site is found

Height: Altitude at the centre of the survey square in which the site is found

Dissection: The dissection values for the survey square in which the site is found

Data Source: FIS (I) = Found in Survey (Inside Sampling Units)
 FIS (O) = Found in Survey (Outside Sampling Units)
 PK = Previously Known

+ = Site which may belong to a particular period (or periods)

GENERAL DATA FOR PALAEO-LITHIC/EPIPALAEO-LITHIC SITES IN THE SURVEY AREA

Survey Square	Strata	Type of Site	Height	Dissection	Data Source
1130	5	Rockshelter	500	5.50	FIS (I)
81	8	Rockshelter	640	5.00	FIS (O)
146	7	Rockshelter	670	3.50	FIS (O)
532	5	Rockshelter	370	6.00	PK
614	4	Rockshelter	390	2.25	PK
611	5	Rockshelter	490	6.60	PK
TOTAL NUMBER OF SITES = 6					

GENERAL DATA FOR COPPER AGE SITES IN SURVEY AREA

Survey Square	Strata	Type of Site	Height	Dissection	Data Source
178	5	Settlement	520	5.50	FIS (0)
245/246	5	Settlement	350-380	4.50-5.75	FIS (I & O)
440	4	Settlement	390	3.75	FIS (0)
443	5	Settlement	400	4.75	PK
631	5	Settlement	320	6.50	PK
2728	1A	Settlement	140	2.00	FIS (0)
2629, 2631, 2633, 2726, 2632, 2532	1A	Settlements (2)	120-150	0.75-2.25	FIS (I & O)
178	5	Cemetery	520	5.50	FIS (0)
534	4	Cemetery	370	3.25	PK
620	4	Cemetery	330	3.25	FIS (I)
711	4	Cemetery	420	3.75	FIS (I)
820	5	Cemetery	480	4.25	FIS (0)
614	4	Cemeteries (2)	390	2.25	FIS (0)
612	5	Cemeteries (2)	460	4.50	FIS (I)
2649	3	Cemetery	270	5.75	FIS (I)
935	5	Cemetery	440	5.75	FIS (0)
616	5	Cemetery	380	4.00	FIS (0)
2988	8	Isolated Finds	750	6.25	FIS (I)
956, 1071	1	Isolated Finds	240-260	0.50-1.75	FIS (I)
146 ⁺	7	Rockshelter	670	3.50	FIS (0)
532 ⁺	5	Rockshelter	370	6.00	PK
325 ⁺	11	Rockshelter	1000	6.50	FIS (I)
634 ⁺	2	Isolated Finds	290	2.00	FIS (I)
942 ⁺	5	Isolated Finds	340	4.25	FIS (I)
876 ⁺	2	Isolated Finds	290	2.00	FIS (I)
185 ⁺	5	Isolated Finds	460	5.25	FIS (I)
282 ⁺	5	Isolated Finds	580	4.00	FIS (I)
629 ⁺	5	Isolated Finds	500	3.00	FIS (0)
1171 ⁺	4	Isolated Finds	310	1.00	FIS (I)
TOTAL NUMBER OF SITES = 22-32					

GENERAL DATA FOR BRONZE AGE SITES IN THE SURVEY AREA

Survey Square	Strata	Type of Site	Height	Dissection	Data Source
2176	2	Settlement	290	3.75	PK
596, 598	8	Settlement	710-740	6.75	PK
▲1176	3	Settlement	260	4.50	FIS (0)
438	5	Settlement	500	5.00	FIS (I)
664	1	Settlement	290	0.50	FIS (I)
504	8	Settlement	680	6.50	FIS (I)
1728	3	Settlement	230	5.00	PK
▲779	4	Settlement	410	3.50	FIS (0)
▲1288	3	Settlement	300	5.25	PK
▲445	5	Settlement	400	7.75	PK
▲443	5	Settlement	400	4.75	PK
▲571	5	Settlement	330	4.75	PK
▲309	5	Settlement	340	4.75	PK
1271	5	Settlement	390	4.25	FIS (0)
▲441	5	Isolated Finds	400	4.75	FIS (I)
942	5	Isolated Finds	340	4.25	FIS (I)
876 ⁺	2	Isolated Finds	510	2.75	FIS (I)
185 ⁺	5	Isolated Finds	460	5.25	FIS (I)
634 ⁺	2	Isolated Finds	290	2.00	FIS (I)
282 ⁺	5	Isolated Finds	580	4.00	FIS (I)
629 ⁺	5	Isolated Finds	330	5.00	FIS (0)
1171 ⁺	4	Isolated Finds	310	1.00	FIS (I)
369 ⁺	6	Settlement	420	8.25	PK
325 ⁺	11	Rockshelter	1000	6.50	FIS (I)
146 ⁺	7	Rockshelter	670	3.50	FIS (0)
532 ⁺	5	Rockshelter	370	6.00	PK
TOTAL NUMBER OF SITES = 16-26					

▲ = clearly associated with Argaric occupation

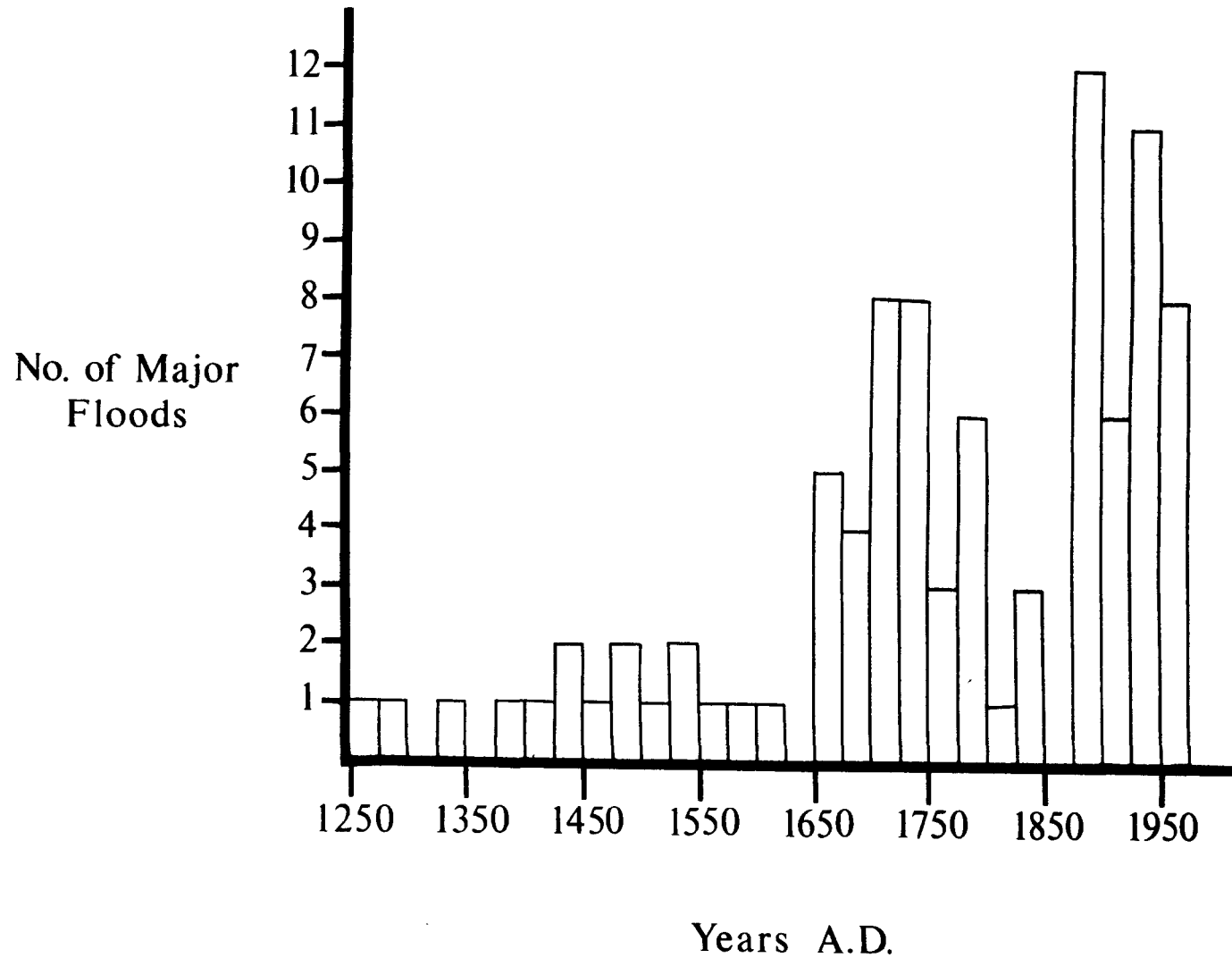
GENERAL DATA FOR IBERO-ROMAN SITES IN THE SURVEY AREA

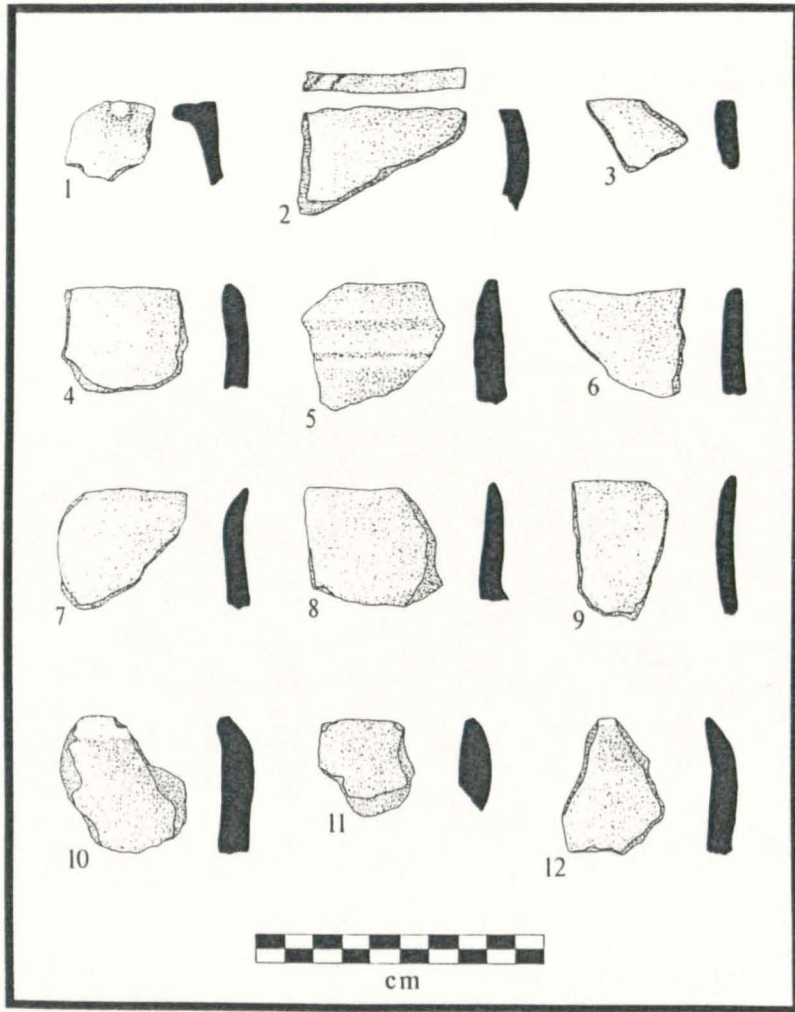
Survey Square	Strata	Type of Site	Height	Dissection	Data Source
348,350	8/5	Settlement	570-610	4.00-5.50	PK
351	5	Settlement	520	4.00	FIS (I)
1700	4	Settlement	350	0.50	PK/FIS (I)
2412,2523	1	Settlement	160-170	0.00-1.50	PK
953	2	Settlement	260	3.50	PK
956,958,1071 1072	1/2	Settlement	230-260	0.50-2.25	PK
2176	2	Settlement	250	3.75	PK
1497	2	Settlement	300	3.50	PK
114	4	Farmstead	580	1.50	FIS (I)
117	7	Farmstead	610	3.50	FIS (I)
292	5	Farmstead	420	6.25	FIS (I)
614	4	Farmstead	390	2.25	FIS (O)
715	4	Farmstead	380	2.75	FIS (O)
1356,1471	4	Farmstead	410	0.50	FIS (I & O)
1702	4	Farmstead	350	1.25	PK
2423	1A	Farmstead	150	0.00	FIS (I)
2823	3	Farmstead	300	5.50	FIS (I)
2806,2808,2887	1A	Farmstead	120-130	0.50-1.00	FIS (I)
1645	1	Farmstead	190	0.00	FIS (I)
1098	1A	Farmstead	230	0.00	FIS (I)
1092,1207	1A	Farmstead	220	1.00	FIS (I & O)
2956	1A	Farmstead	110	1.25	FIS (I)
869	1A	Farmstead	250	0.50	FIS (I)
620	5	Rockshelter	330	3.25	FIS (I)
614	4	Rockshelter	390	2.25	FIS (O)
612	5	Rockshelter	460	4.50	FIS (I)
616	5	Rockshelter	380	4.00	FIS (O)
325	11	Rockshelter	1000	6.50	FIS (I)
935	5	Rockshelter	440	5.75	FIS (O)
2136	2	Isolated Finds	230	2.75	FIS (I)
360	5	Isolated Finds	450	4.50	PK
2628	1	Isolated Finds	150	0.00	PK
2631	1A	Isolated Finds	140	1.00	FIS (O)
2420	1A	Isolated Finds	150	0.75	FIS (I)
TOTAL NUMBER OF SITES = 34					

GENERAL DATA FOR MEDIEVAL SITES IN THE SURVEY AREA

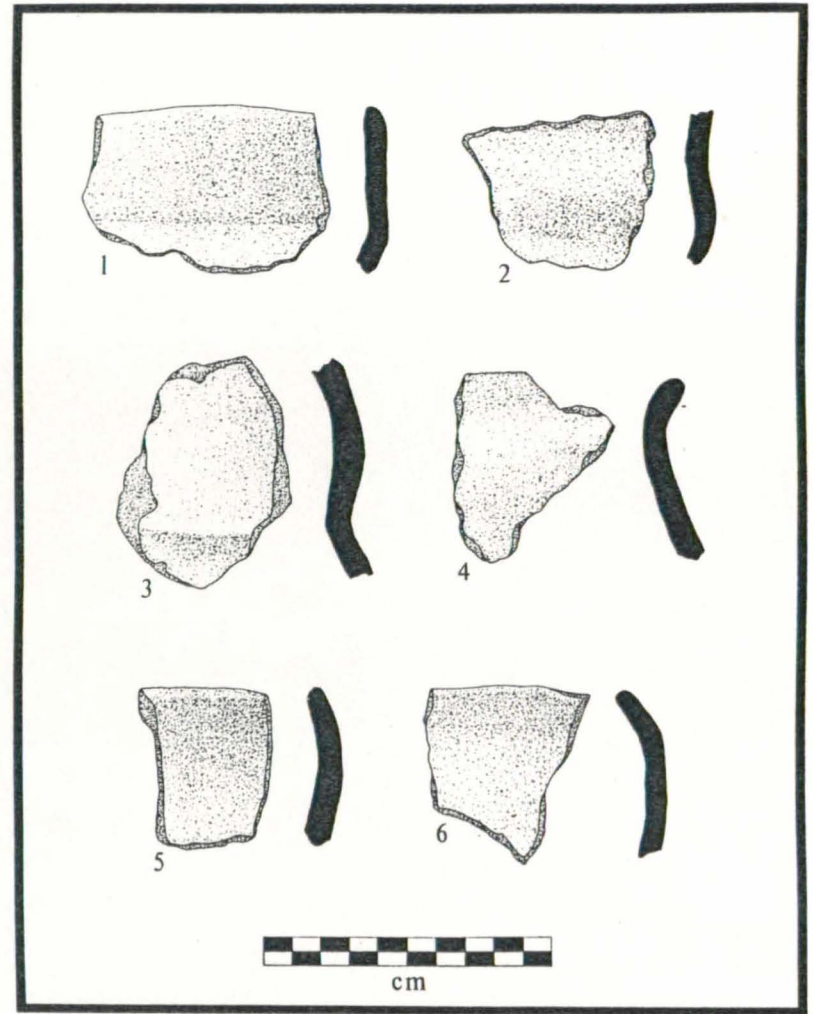
Survey Square	Strata	Type of Site	Height	Dissection	Data Source
1728-1730,1732 1845,1847	1/2/3	Settlement	180-230	0.50-5.00	PK
1816	5	Settlement	310	4.50	PK
348/350	8	Settlement	570-610	4.00-5.50	PK
953,956,958, 1071,1072	1/2	Settlement	230-260	0.50-3.50	PK
2412,2523	1	Settlement	160-170	0.00-1.50	PK
1380	2	Settlement	280	3.75	FIS (O)
2823	3	Farmstead	300	5.50	FIS (I)
351	5	Farmstead	520	4.00	FIS (I)
474,476	1/1A	Farmstead	260	0.50	FIS (I)
715	4	Farmstead	380	2.75	FIS (O)
594/596	8	Farmstead	740-900	6.25-6.75	FIS (I & O)
1271	5	Farmstead	350	4.25	FIS (I)
325	11	Rockshelter	1000	6.50	FIS (I)
1373	5	Cemetery	440	7.75	FIS (O)
634	2	Isolated Finds	290	2.00	FIS (I)
TOTAL NUMBER OF SITES = 16					

Historical Records for Floods of the Segura River (Murcia)

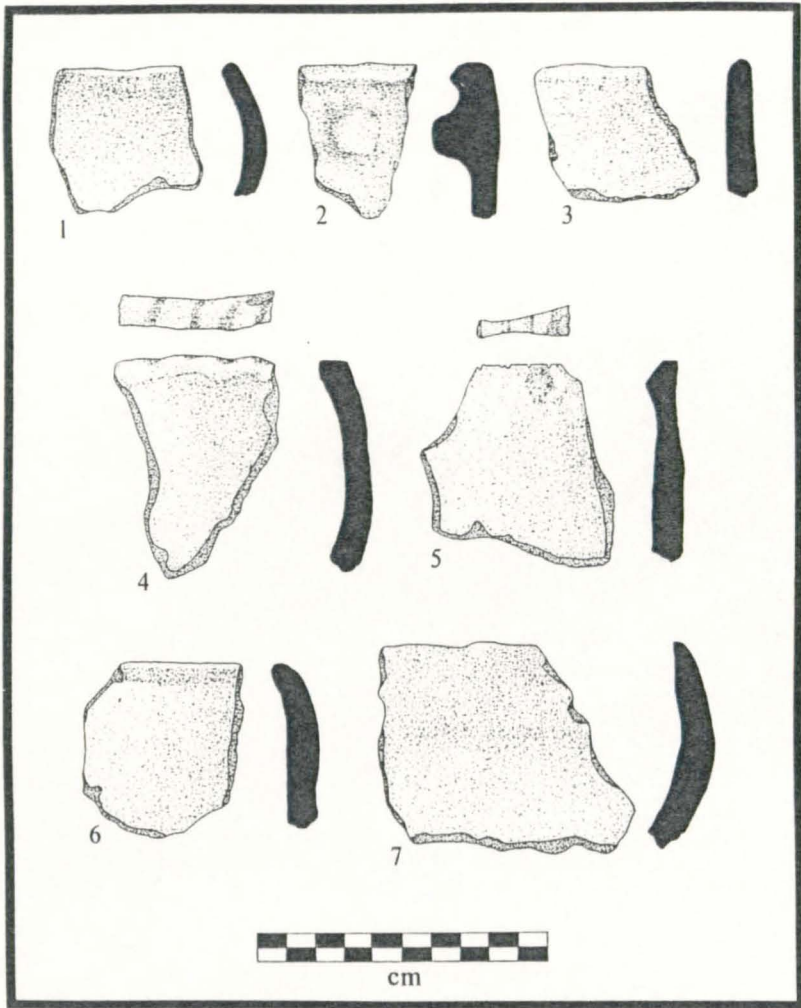




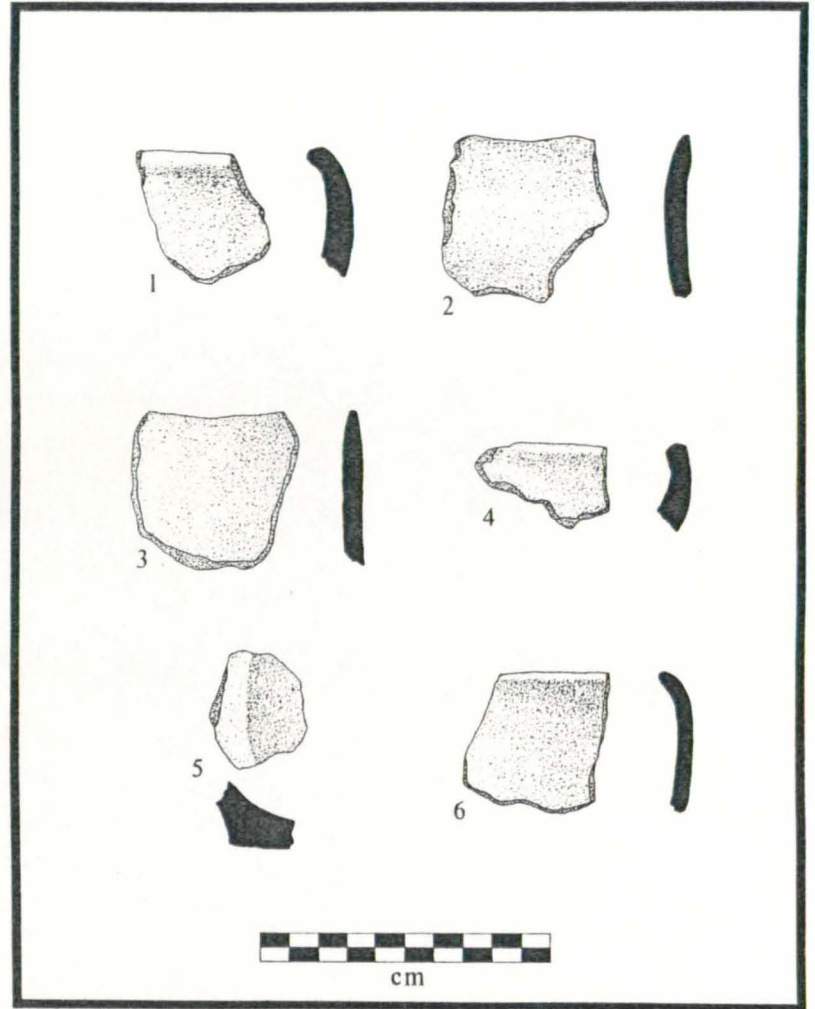
Cueva de la Moneda



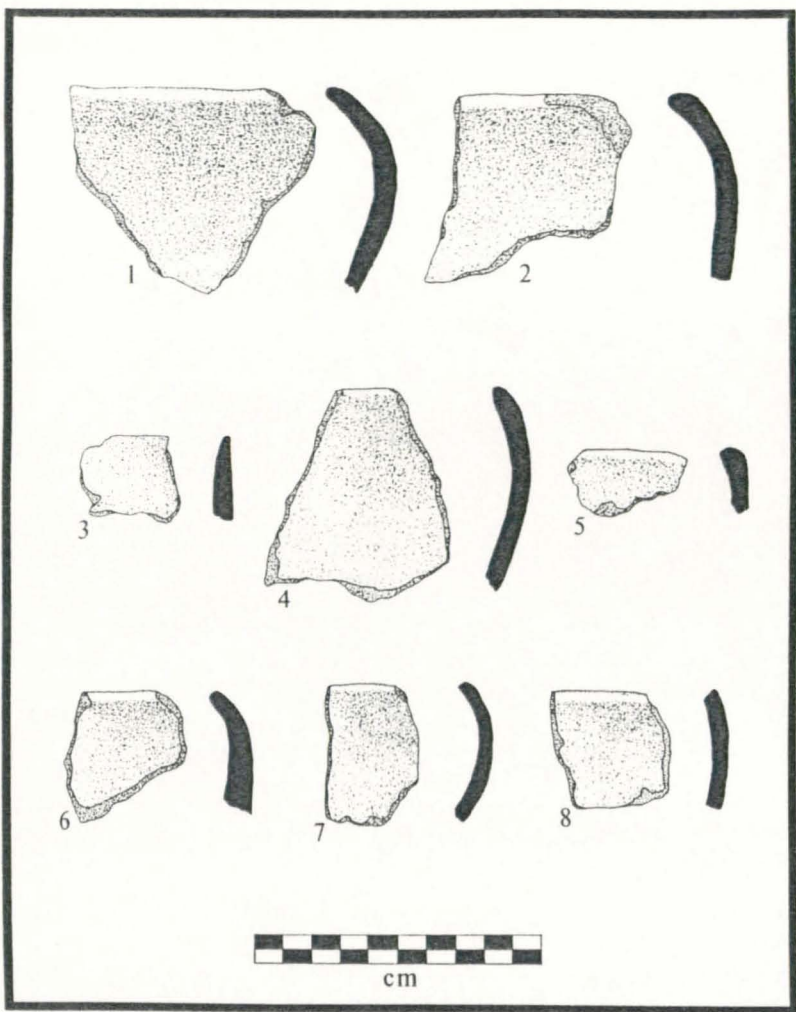
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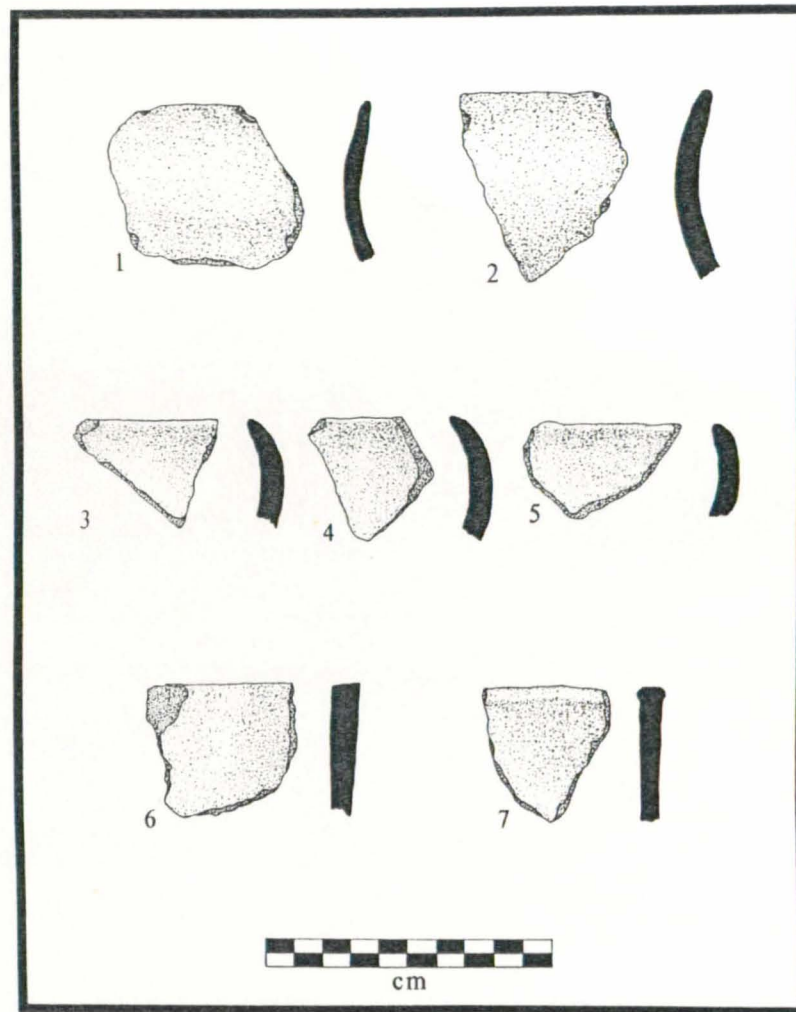
Cueva de la Moneda



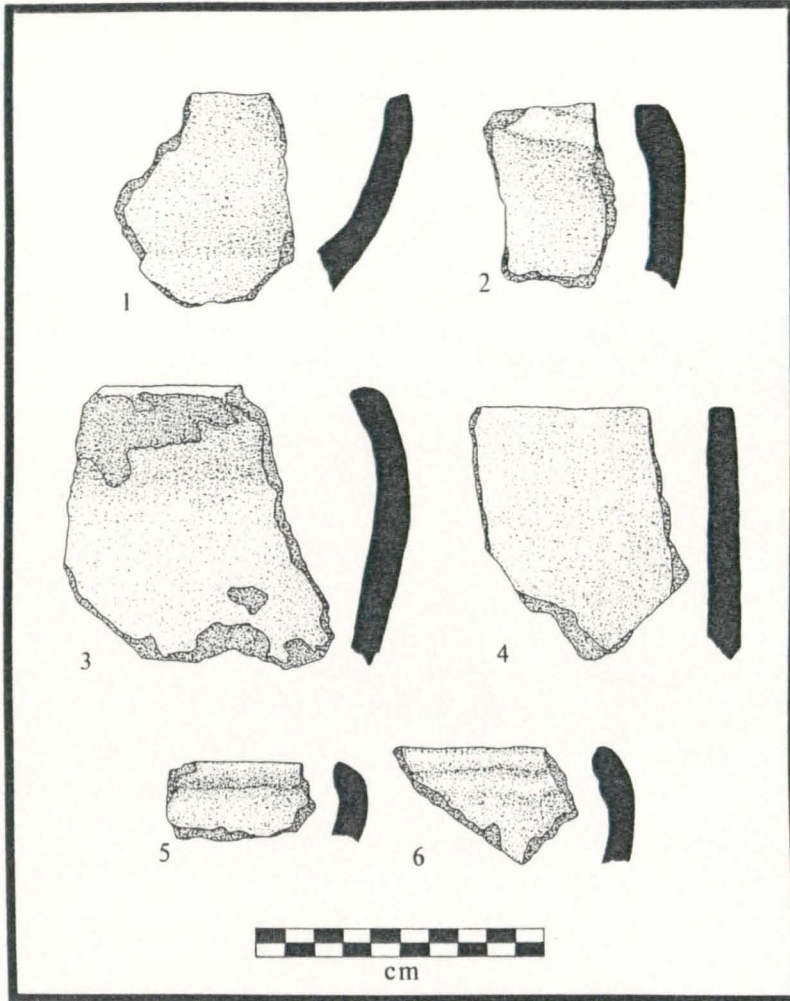
Las Anchuras



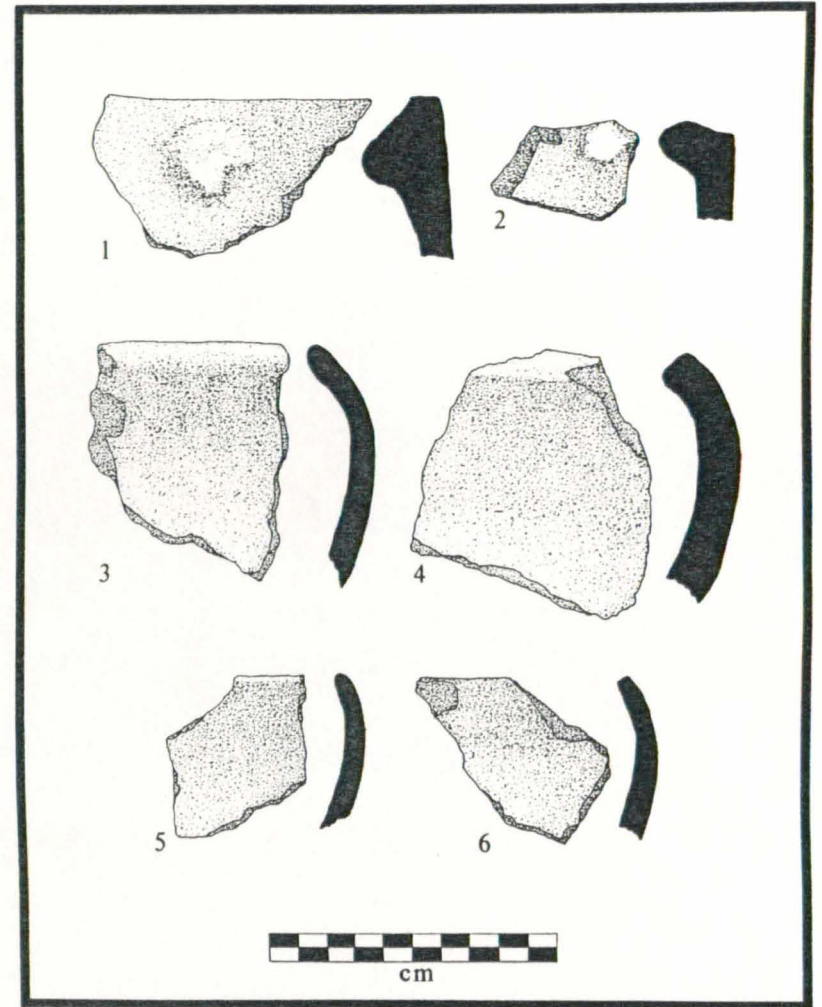
Las Anchuras[□]



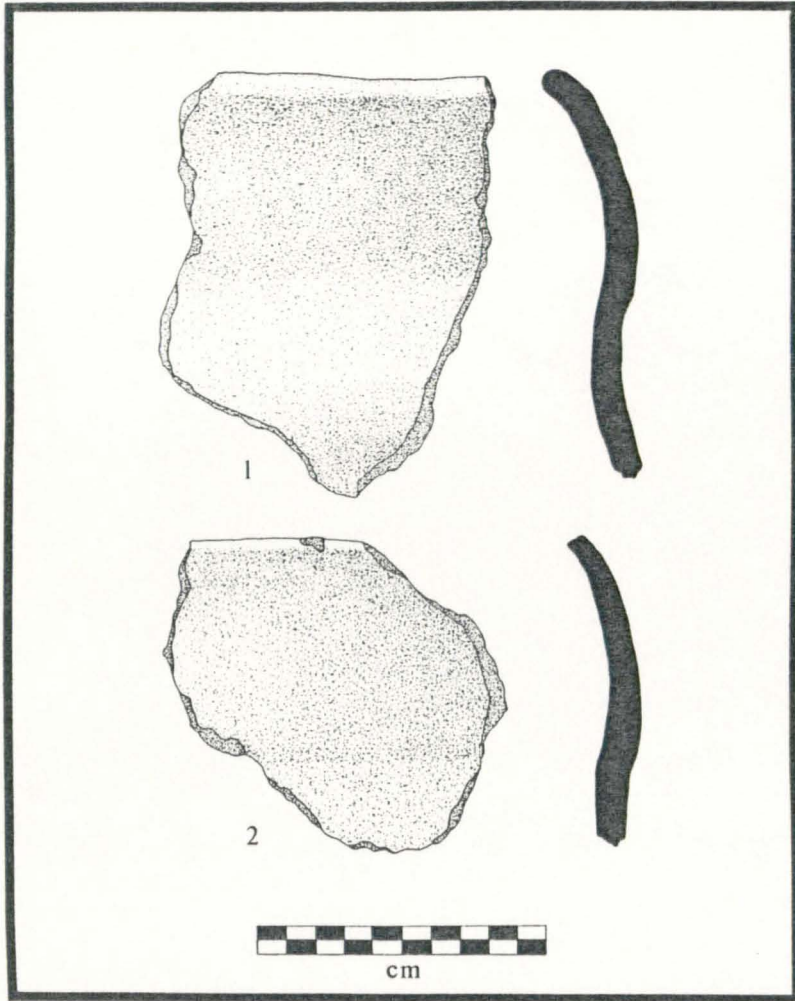
La Tira del Lienzo[□]



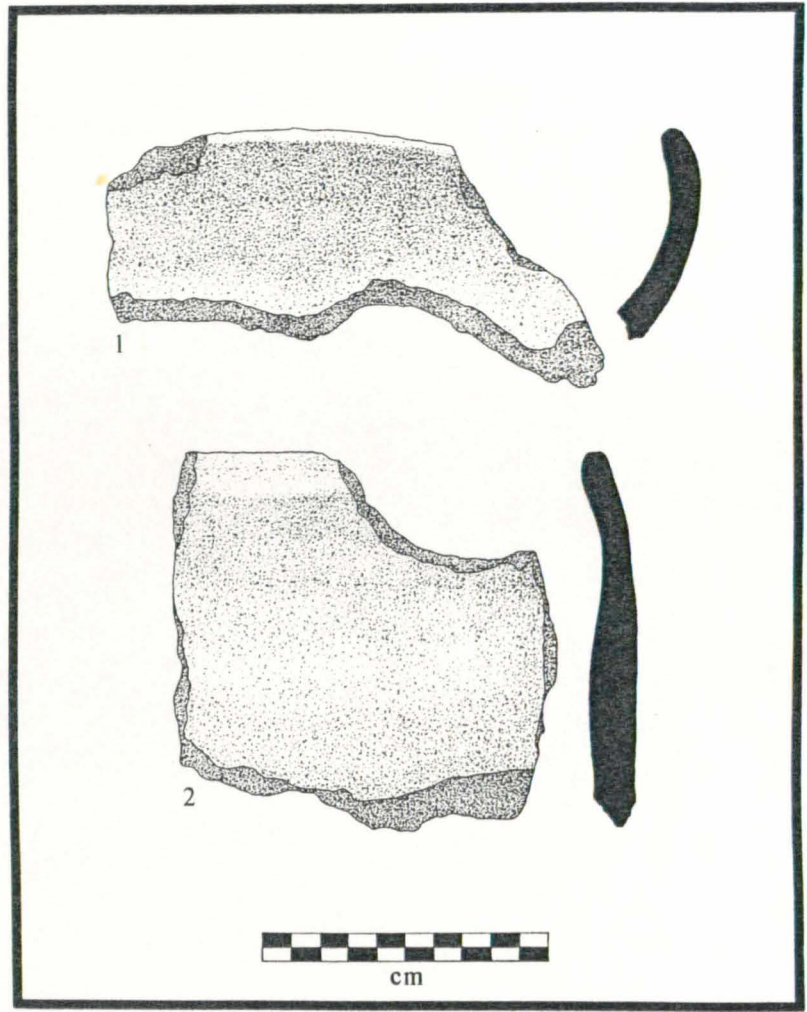
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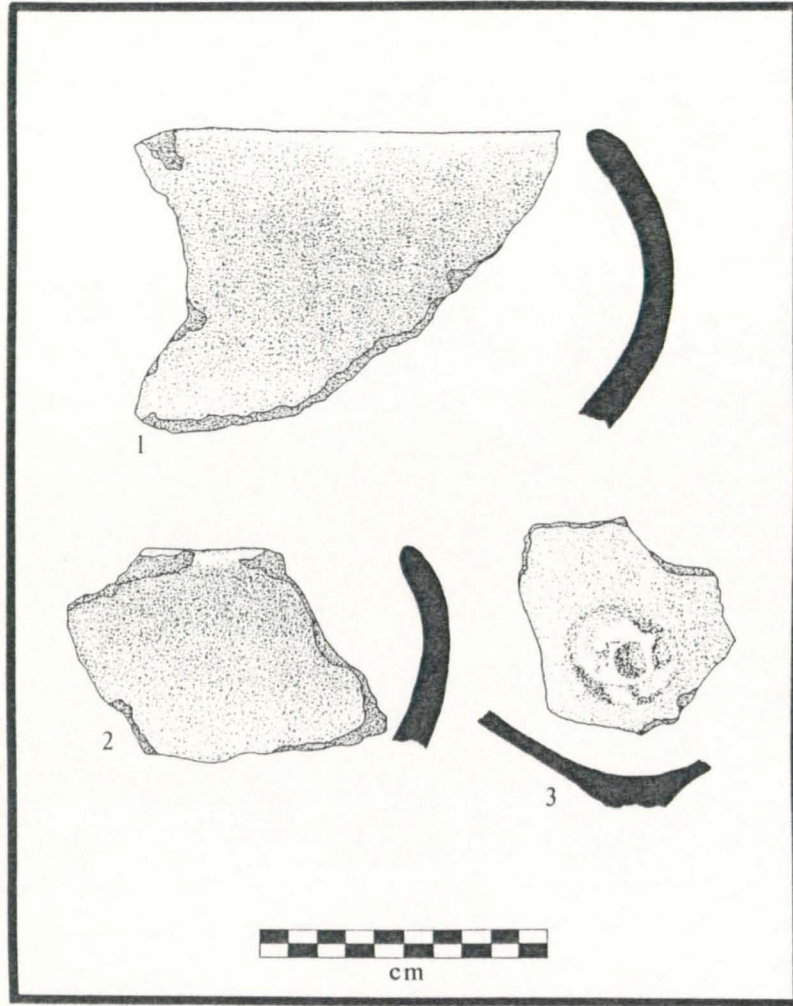
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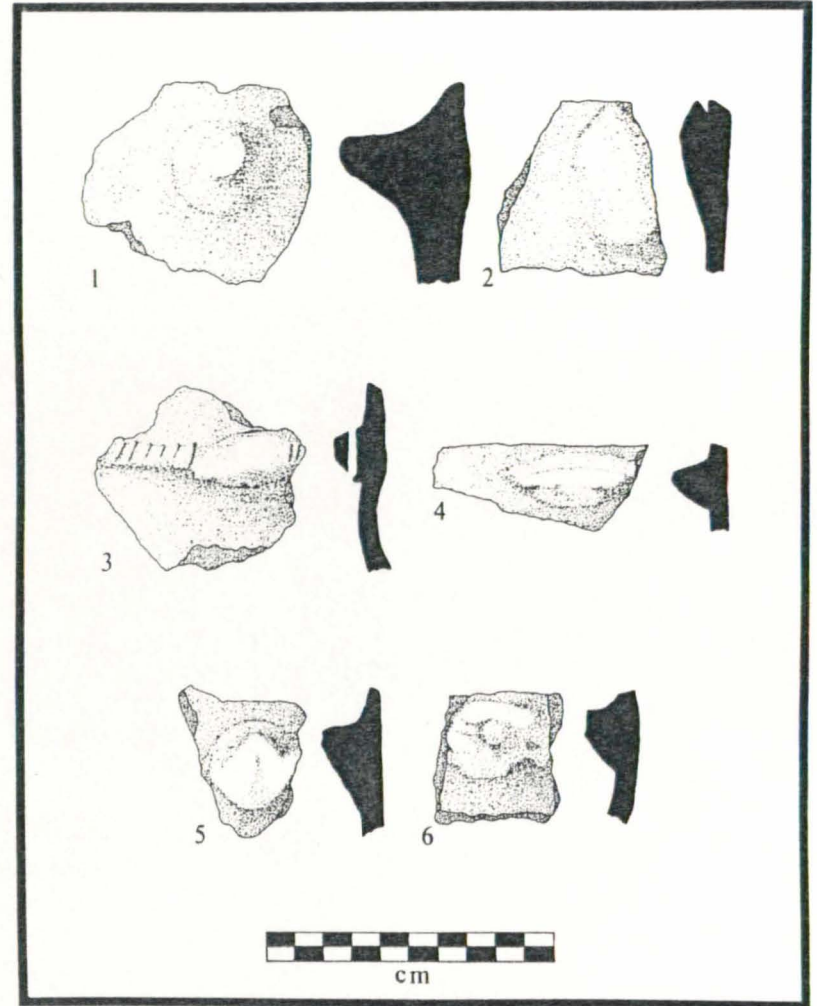
Loma de Baraunda/Alto de Campico[□]



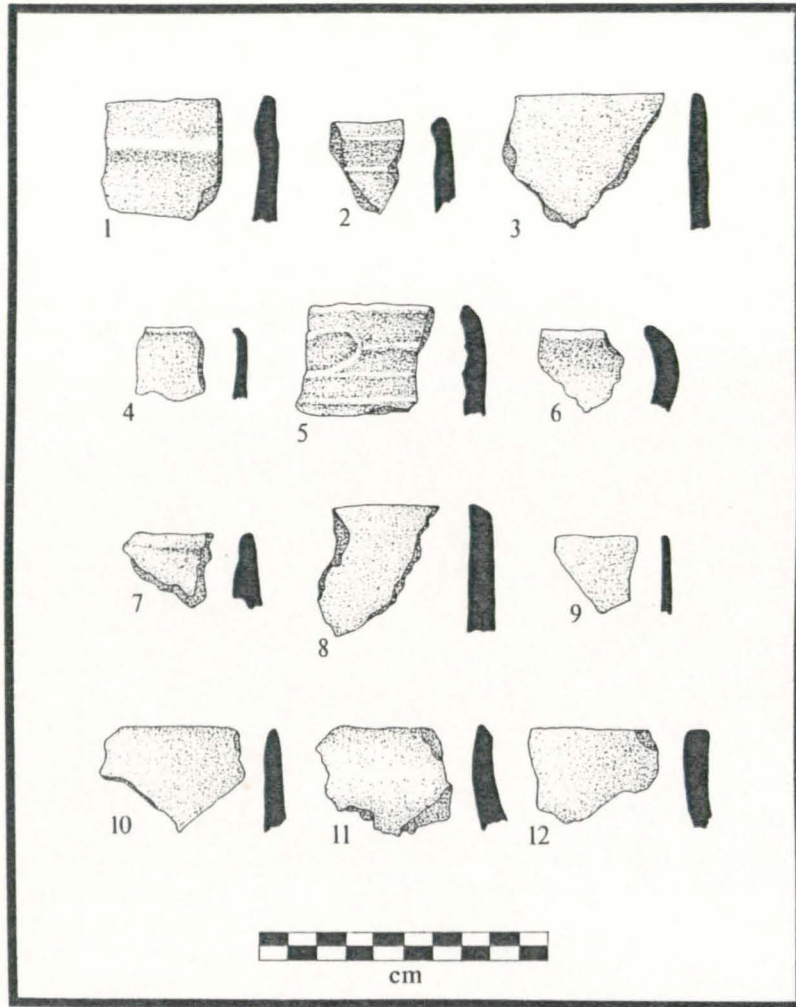
Loma de Baraunda/Alto de Campico[□]



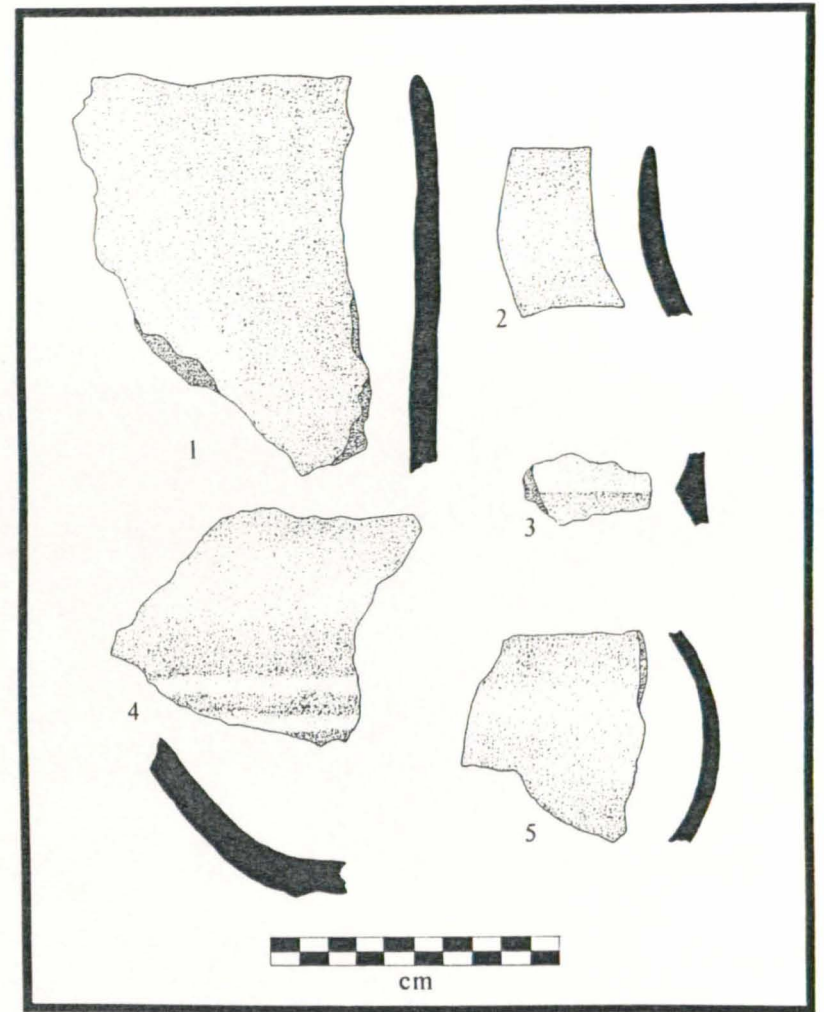
Loma de Baraunda/Alto de Campico[□]



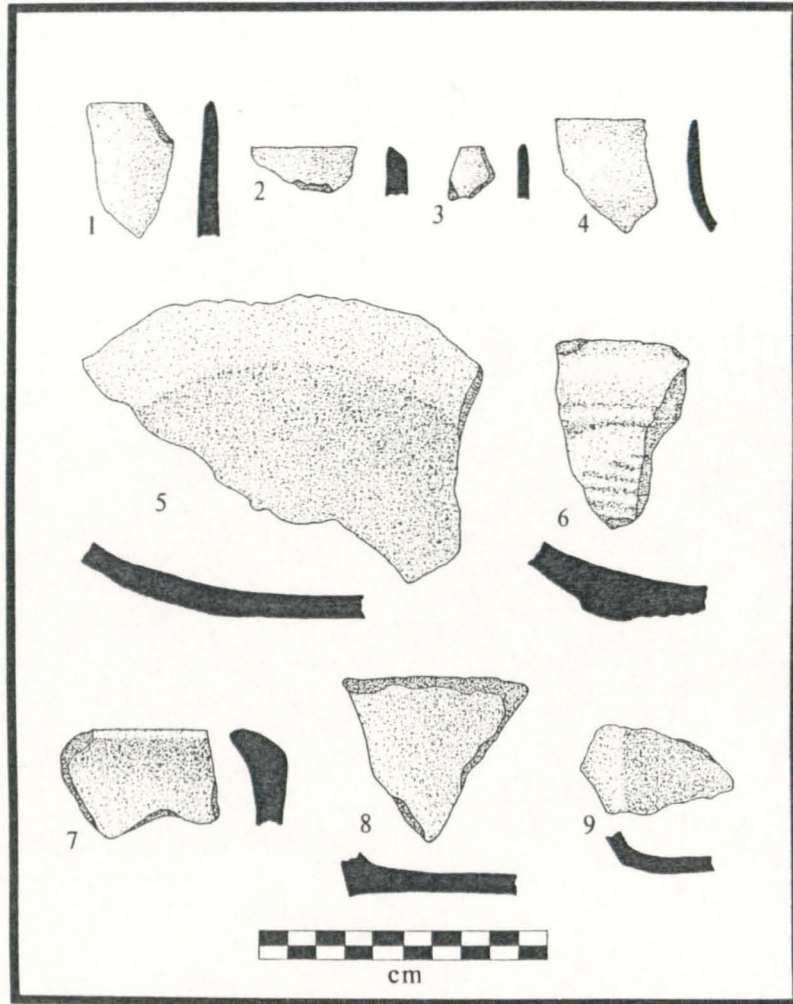
Reguerón Bridge[□]



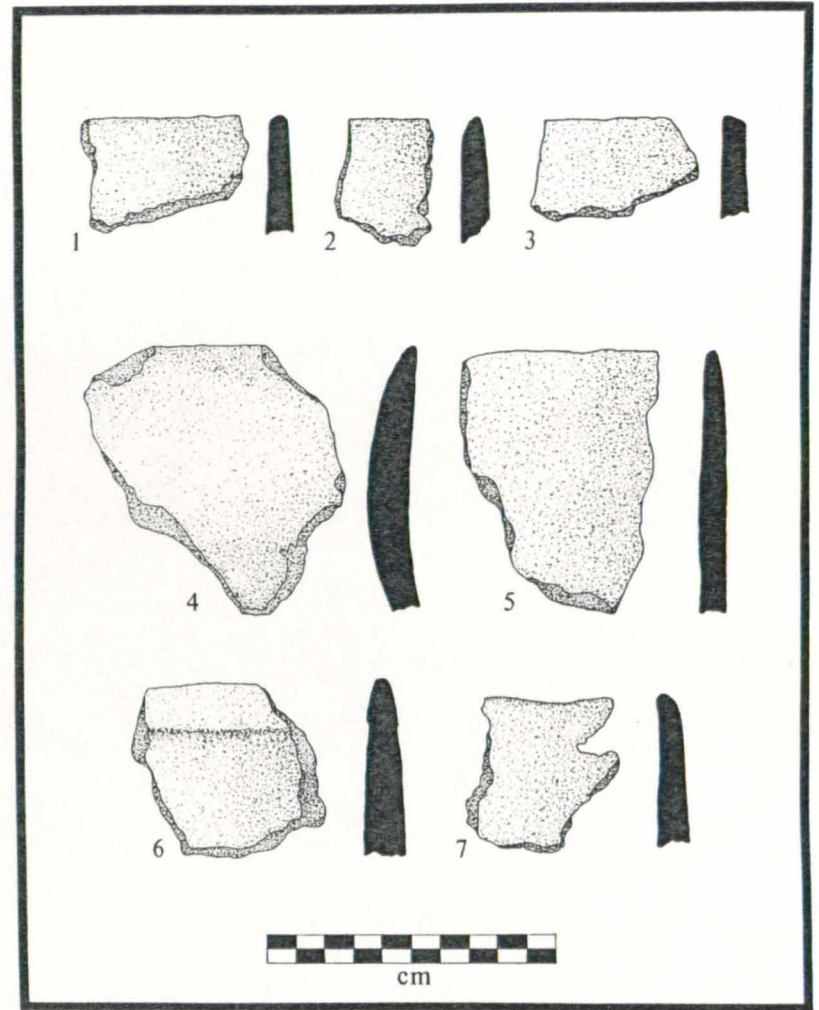
Reguerón Bridge[□]



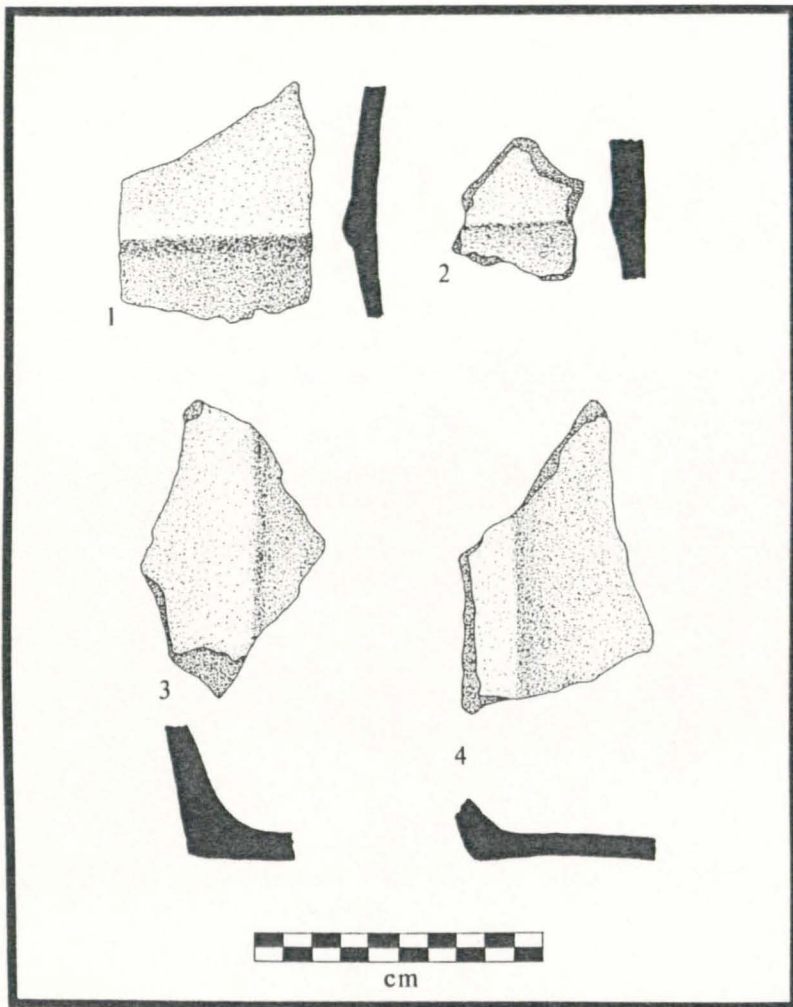
El Cañarico[□]



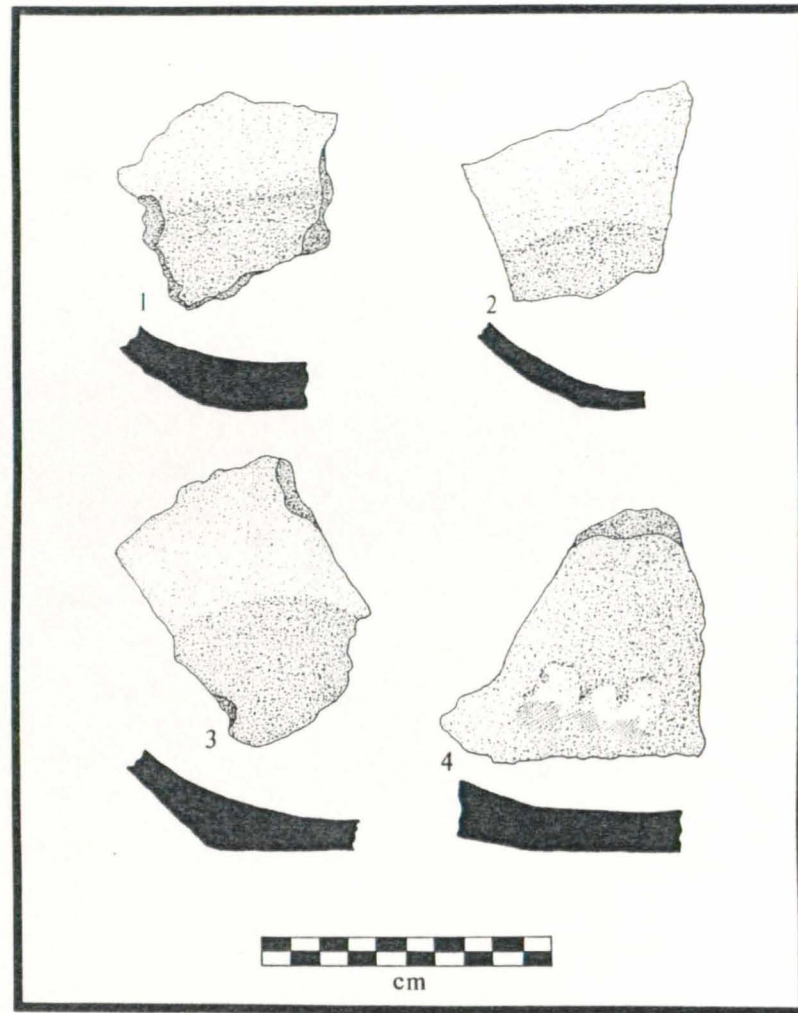
El Cañarico



Rambla de Librilla or Orón

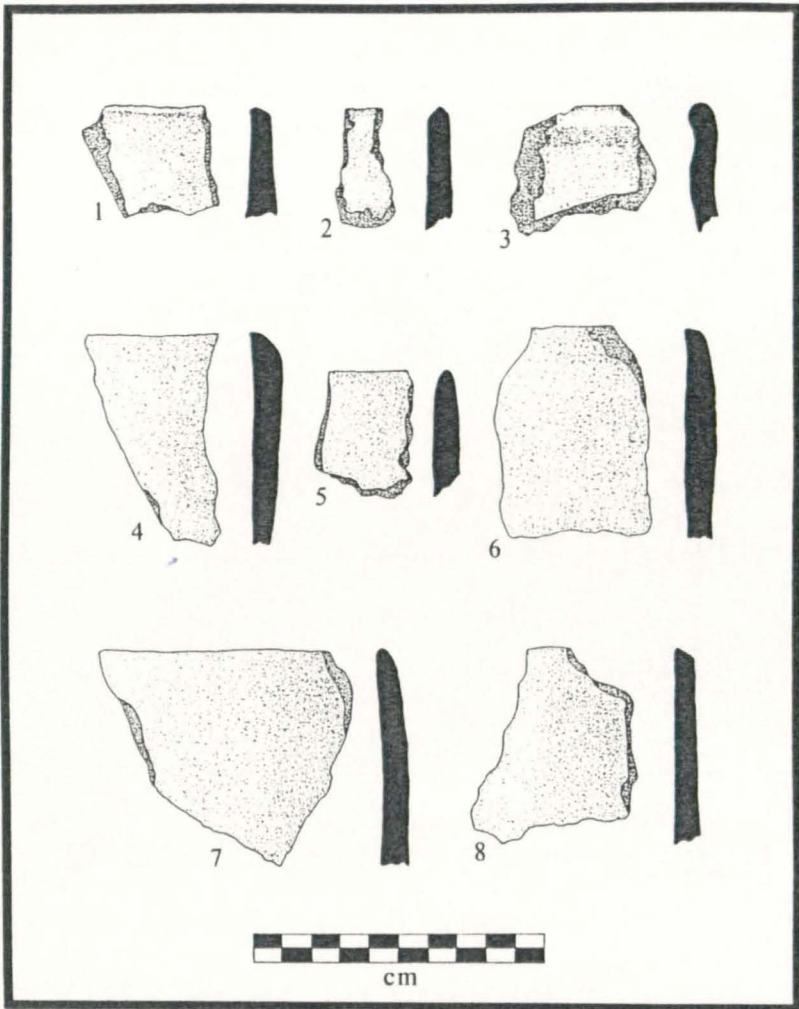


Rambla de Librilla or Orón[□]

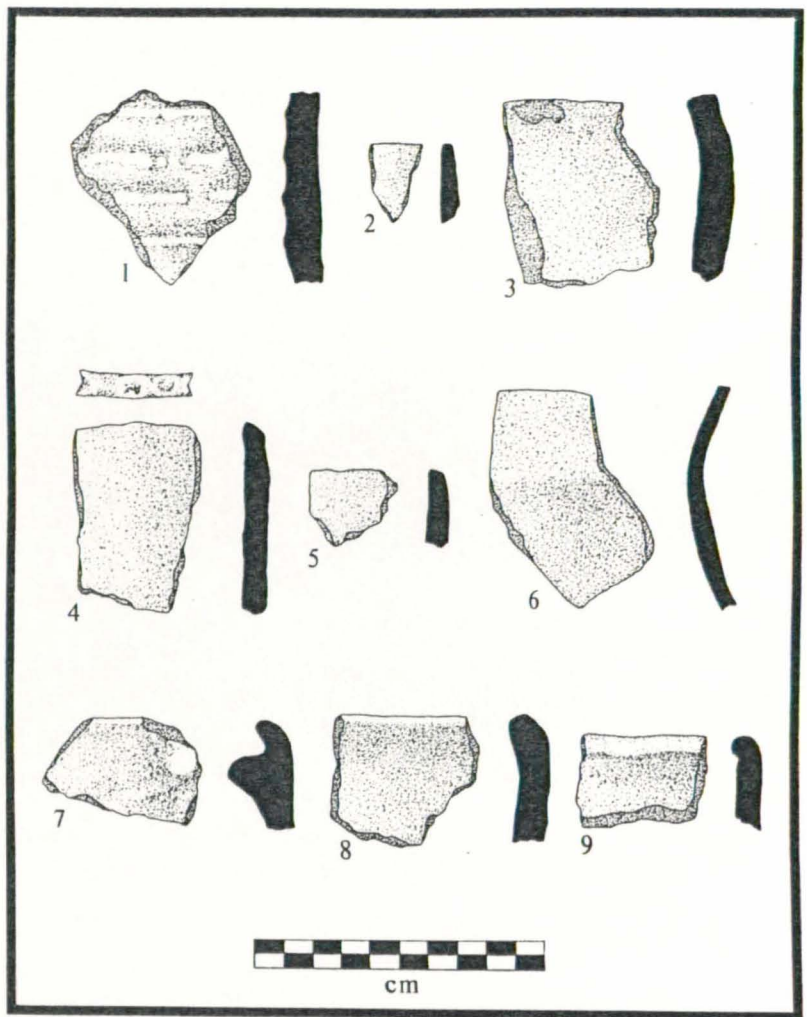


Rambla de Librilla or Orón[□]

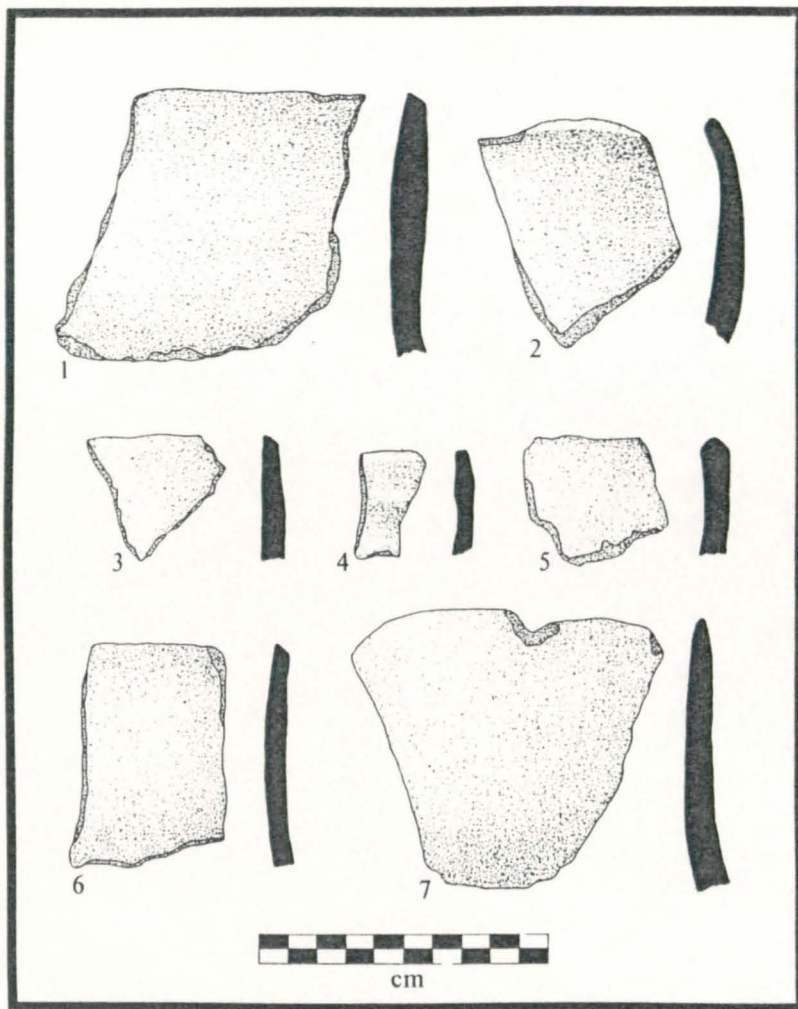
Copper Age and Bronze Age Ceramics Found in Survey



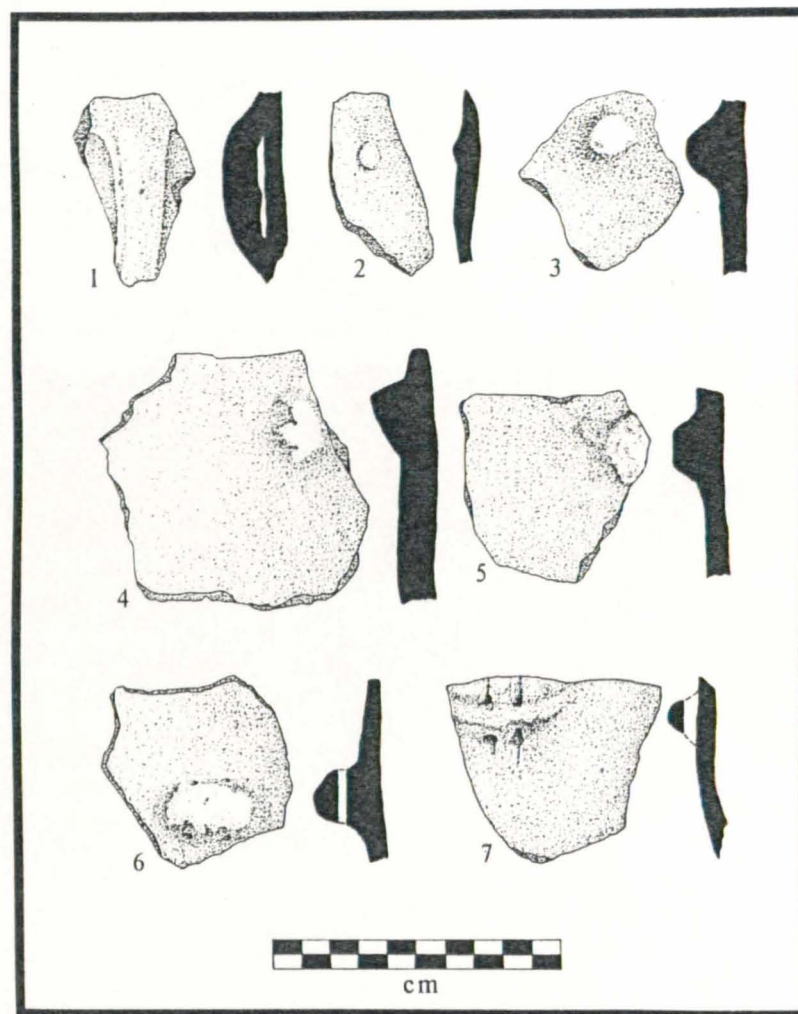
Rambla de Librilla or Orón



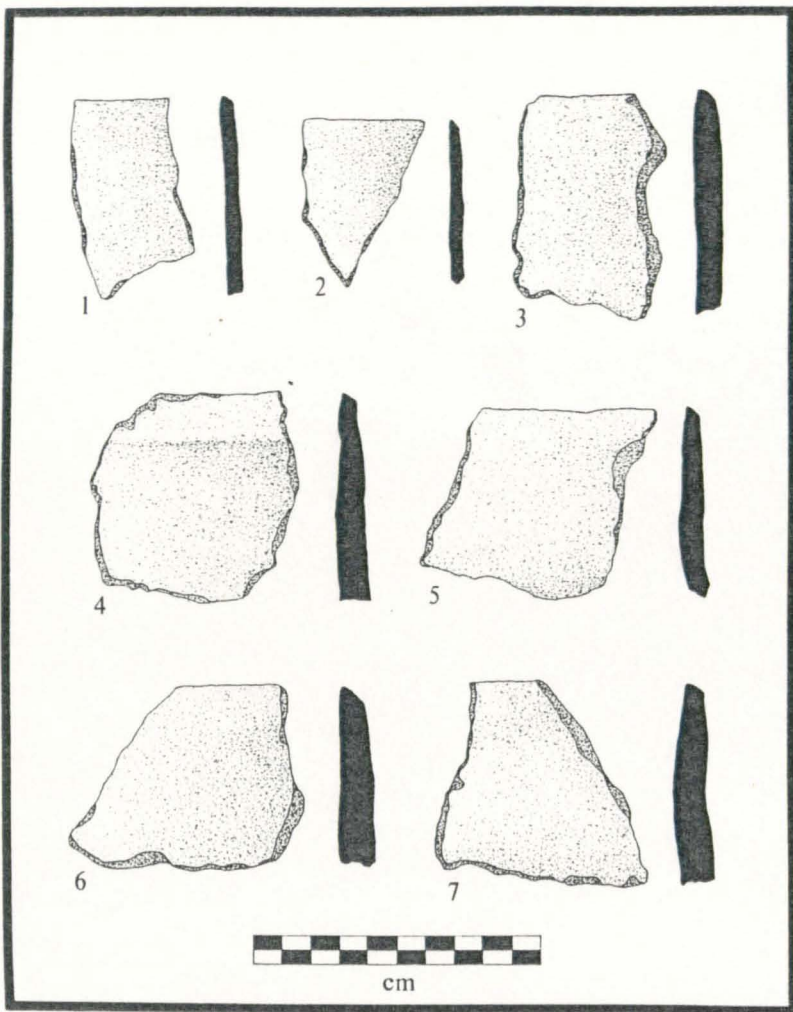
Juan Climaco



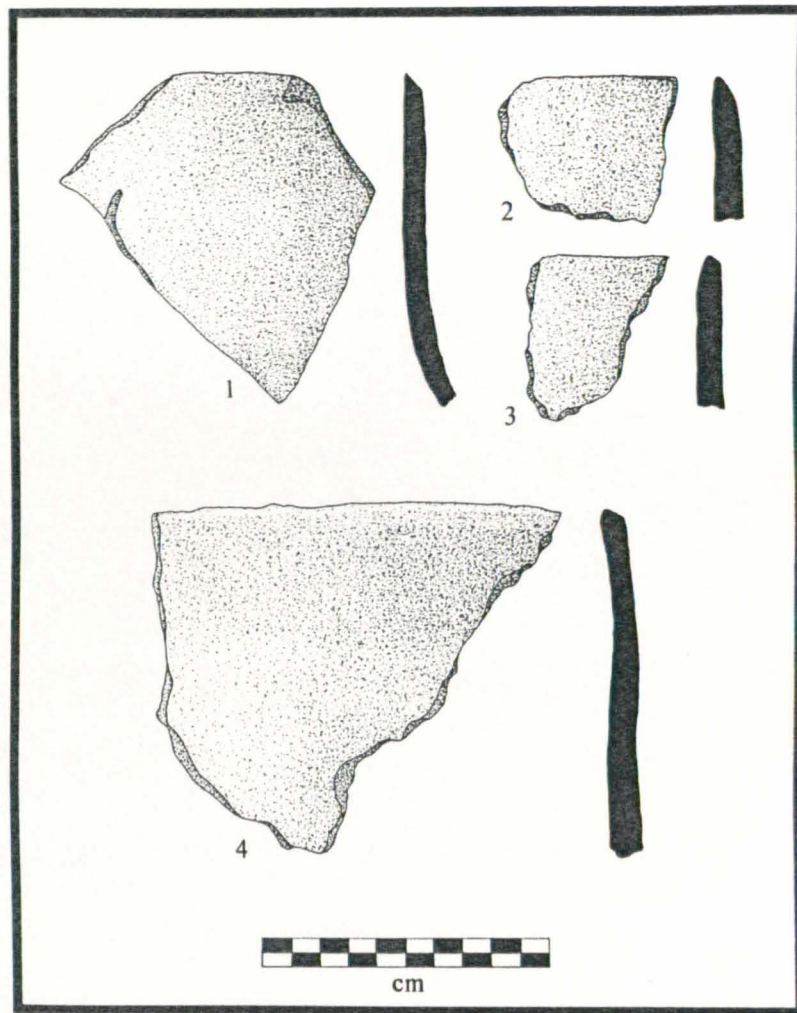
Morra Quemado[□]



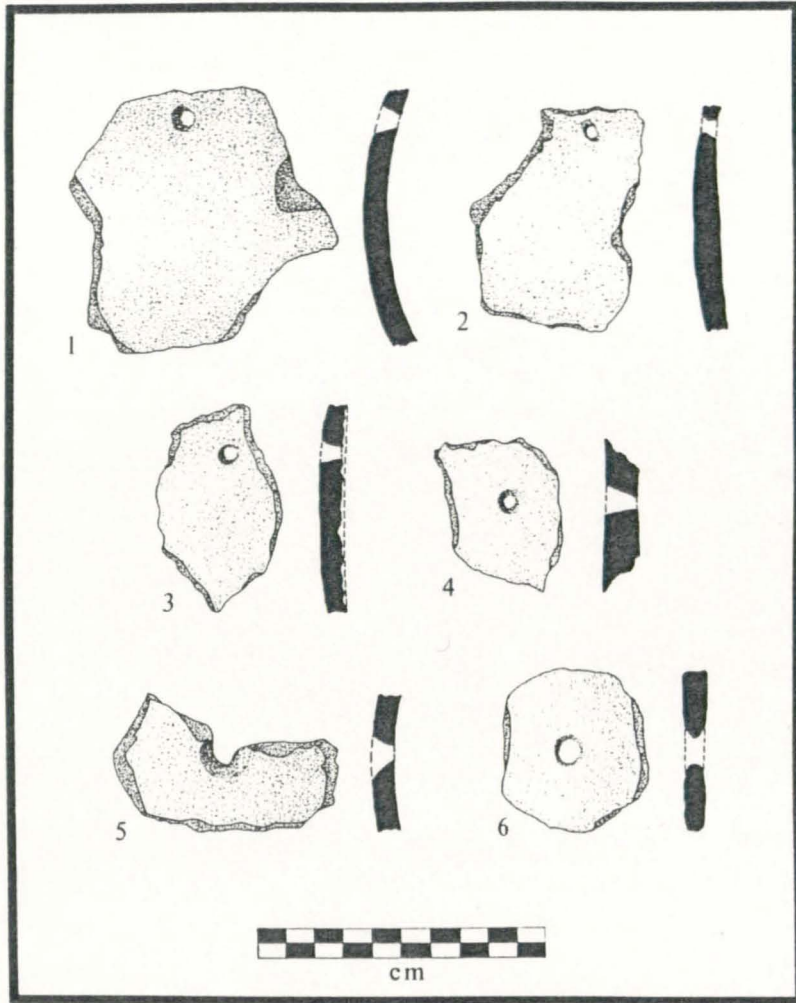
Morra Quemado[□]



Morra Quemado[□]



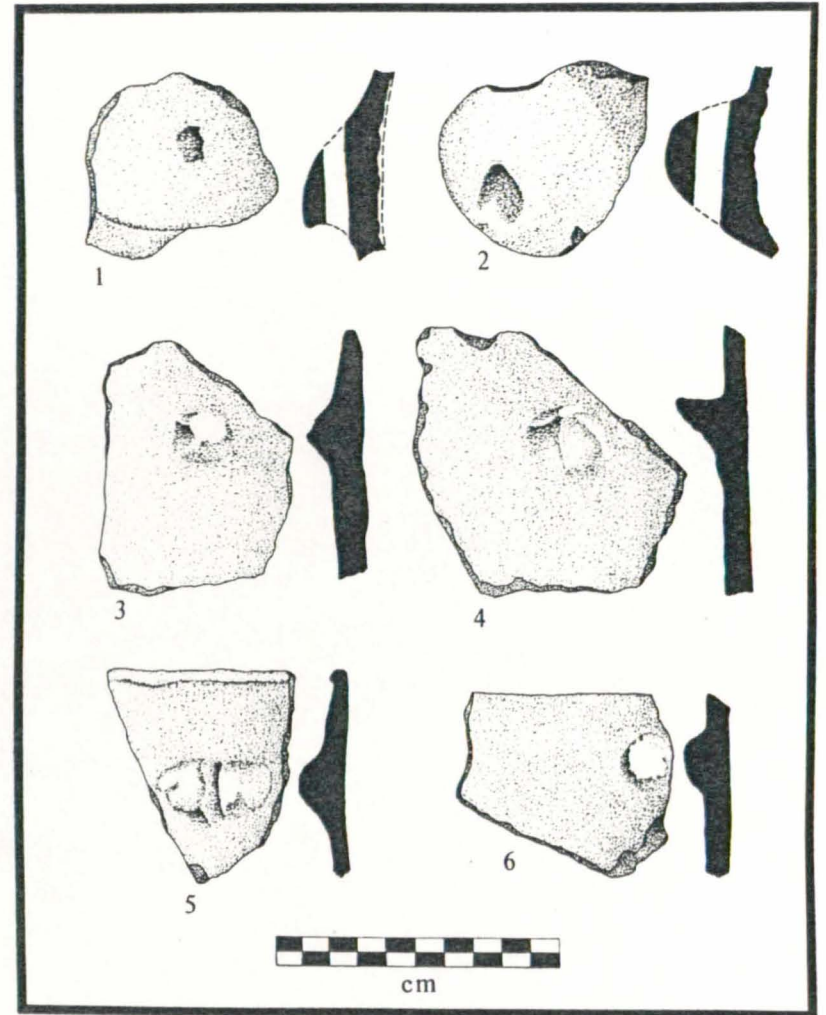
Morra Quemado[□]



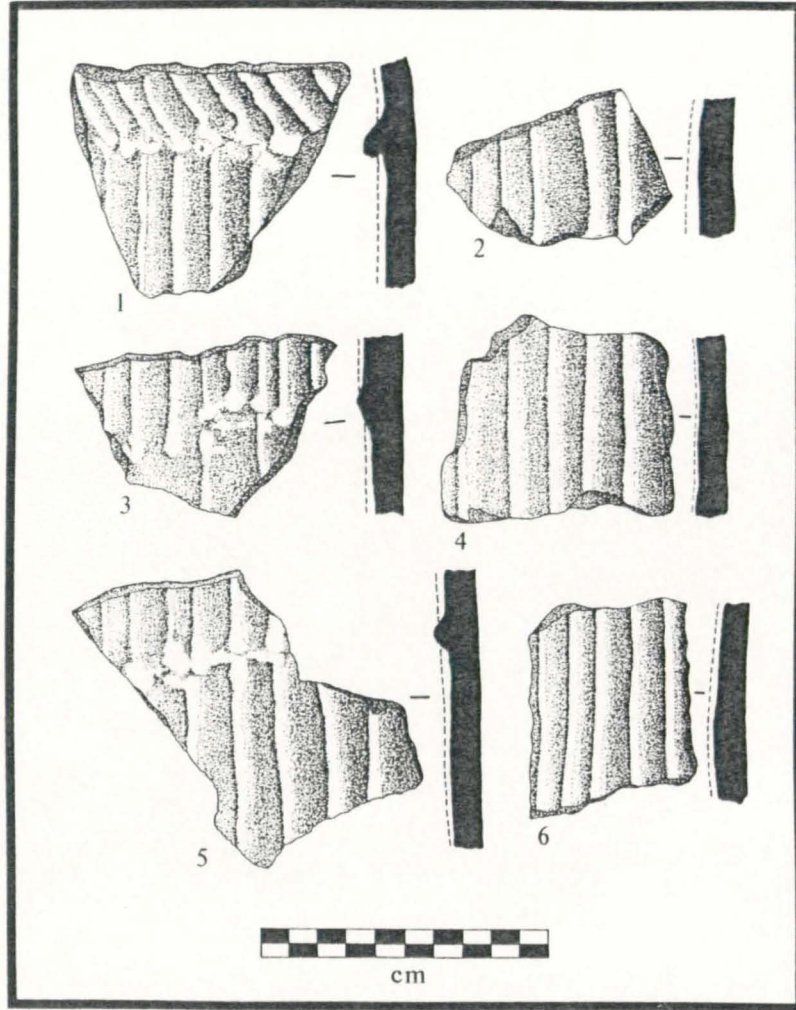
Morra Quemado[□](1-4)

Reguerón Bridge[□](5)

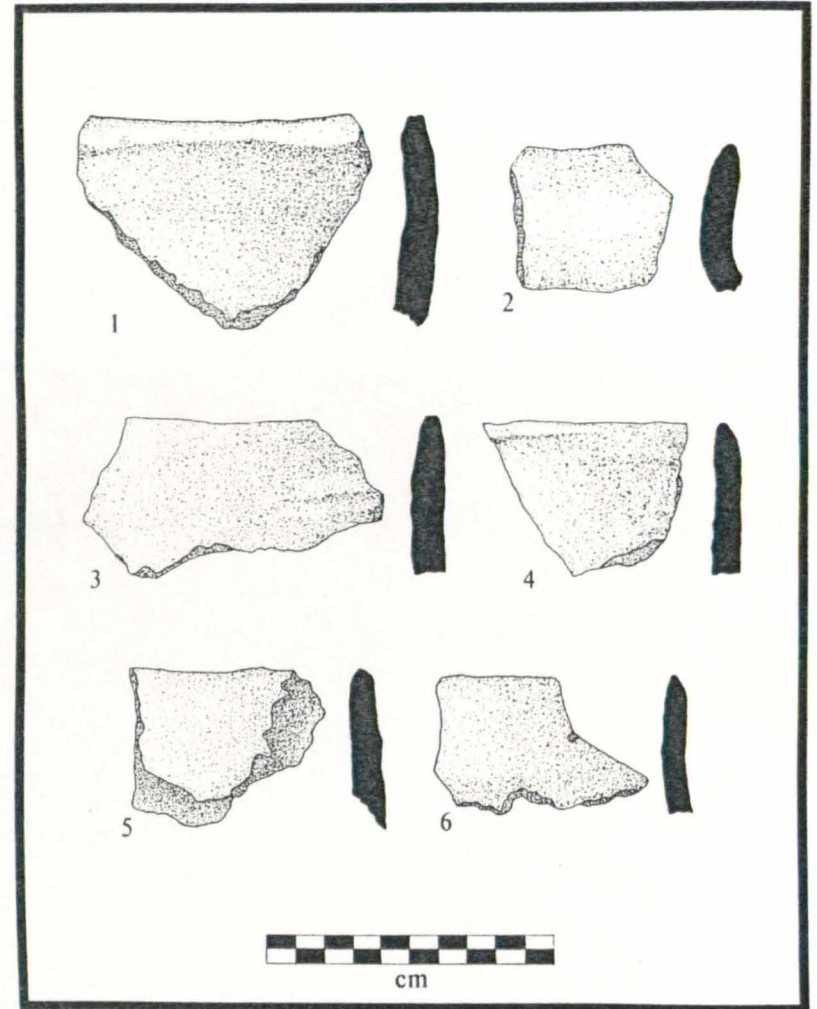
Rambla de Librilla or Orón[□](6)



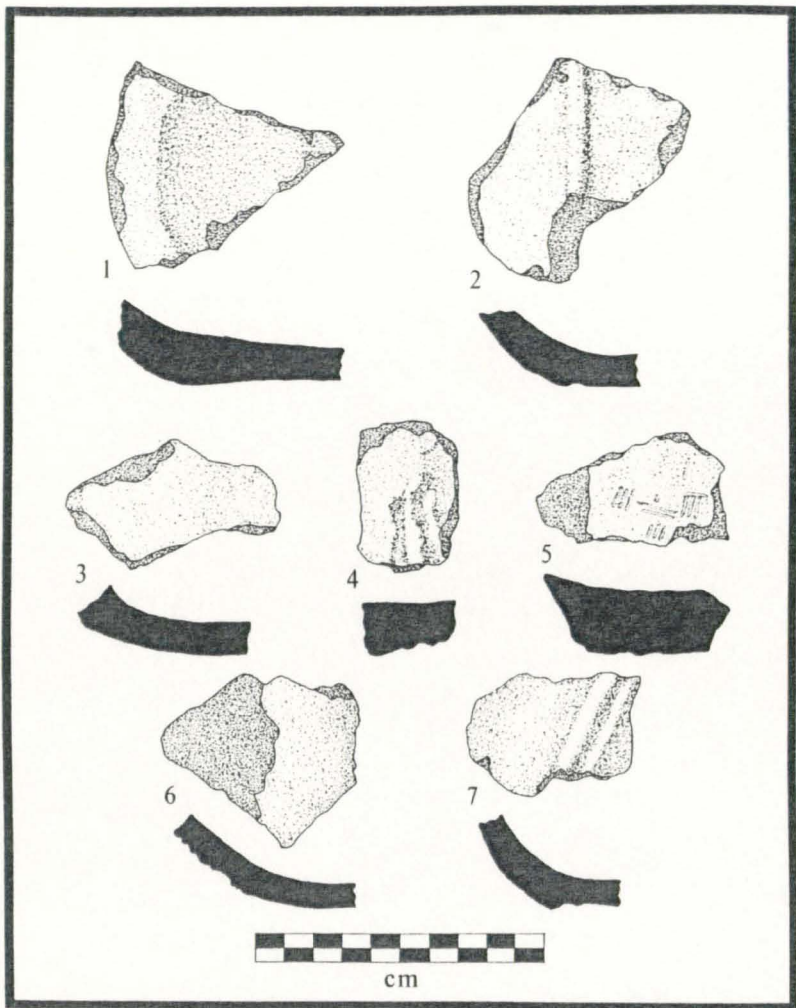
La Hoya[□]



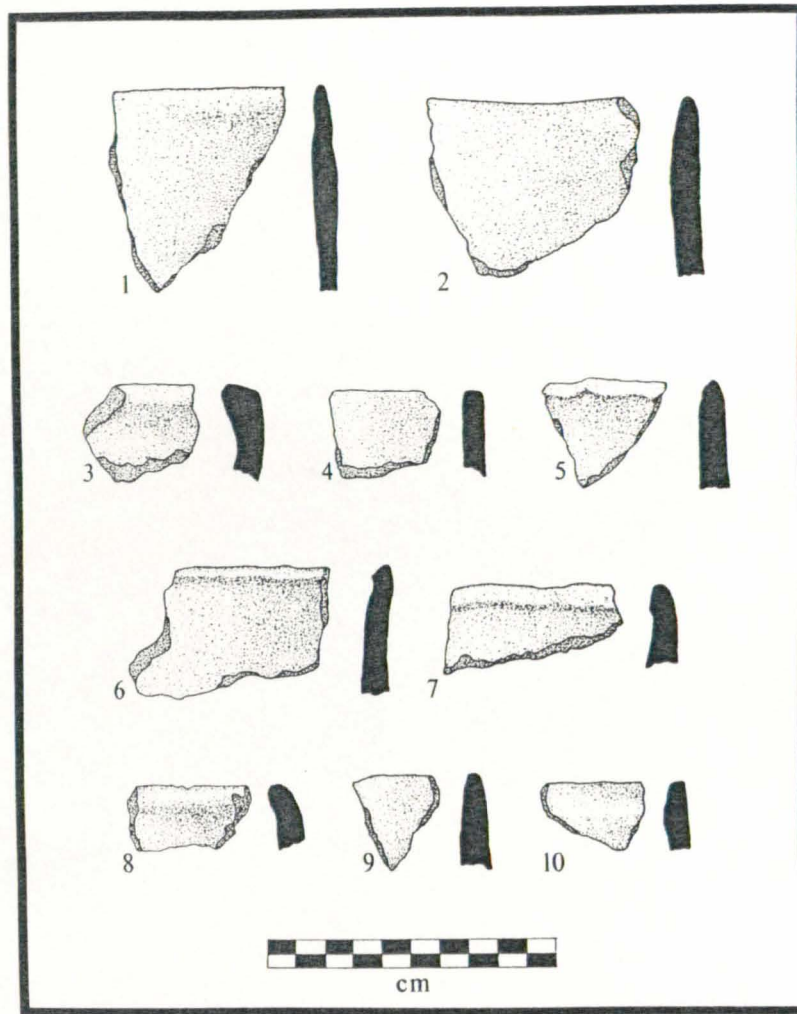
La Hoya[□]



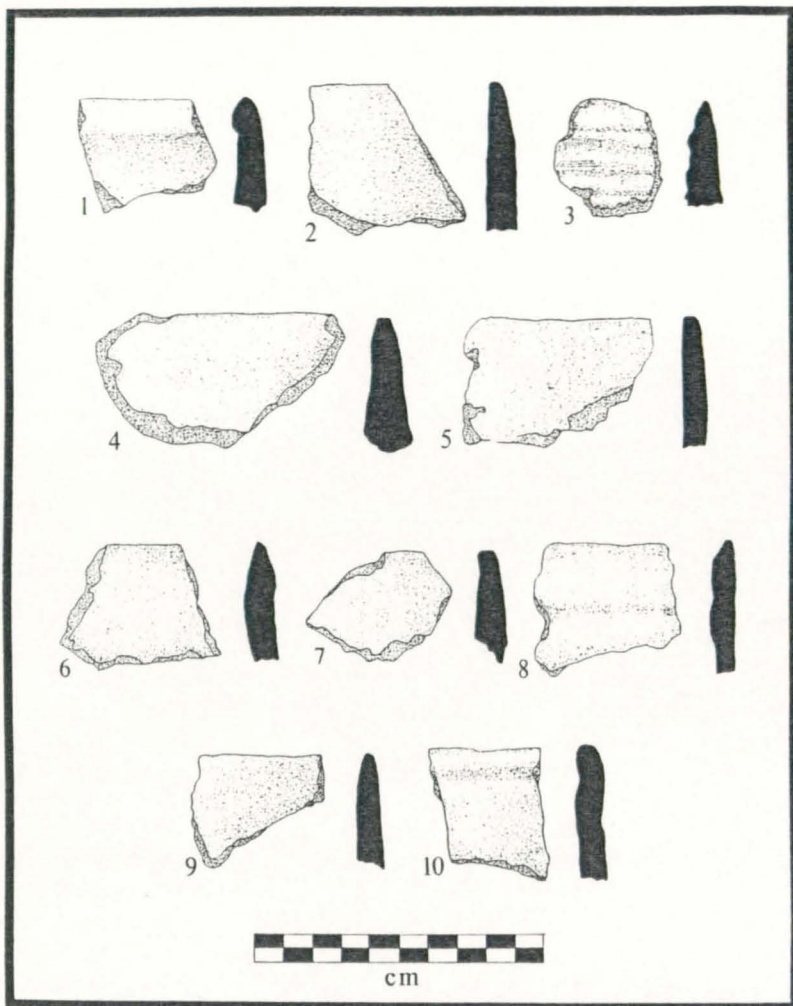
Cimbra[□]



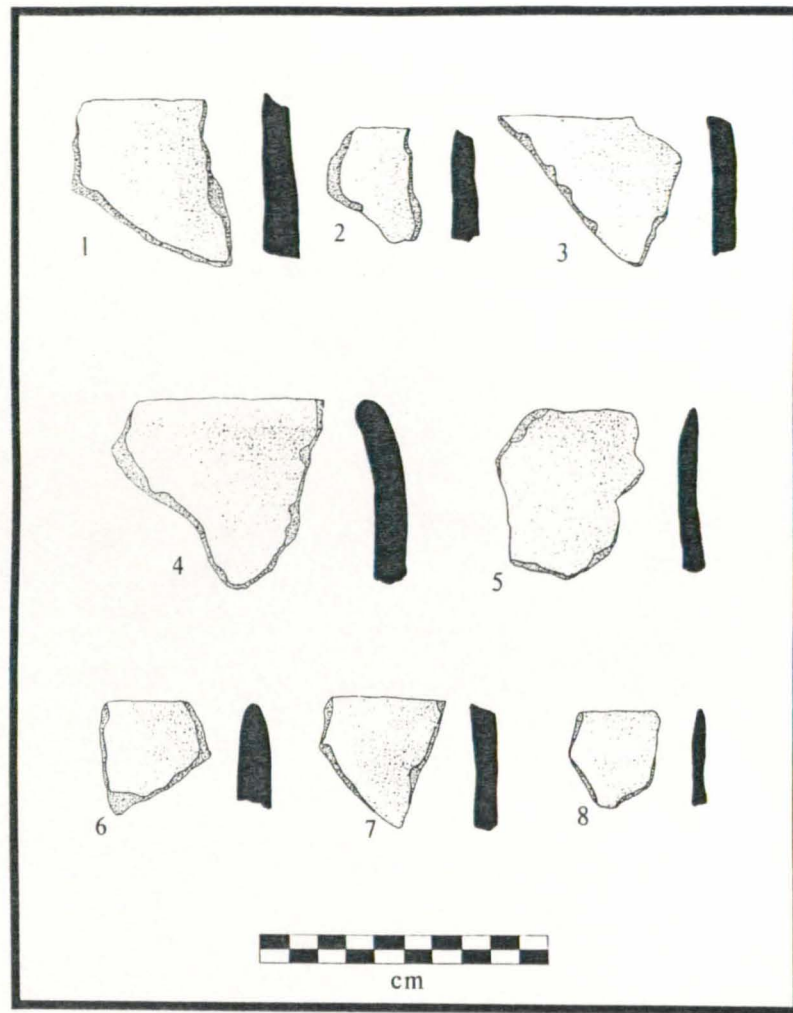
Cimbra[□]



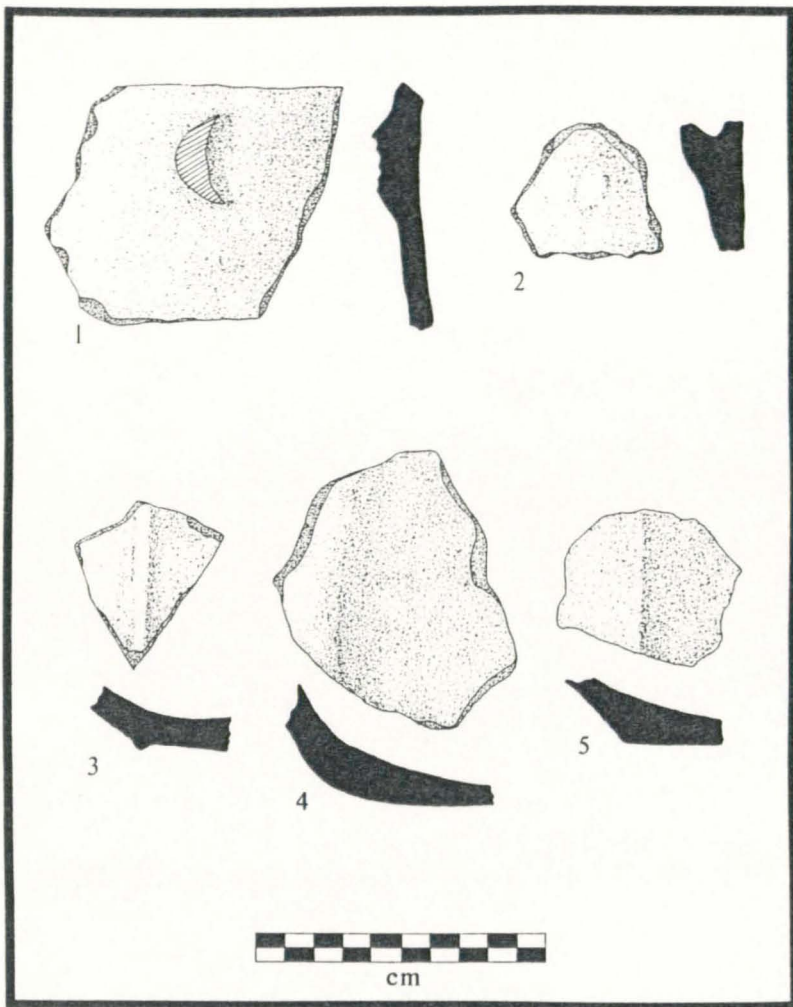
Cimbra[□]



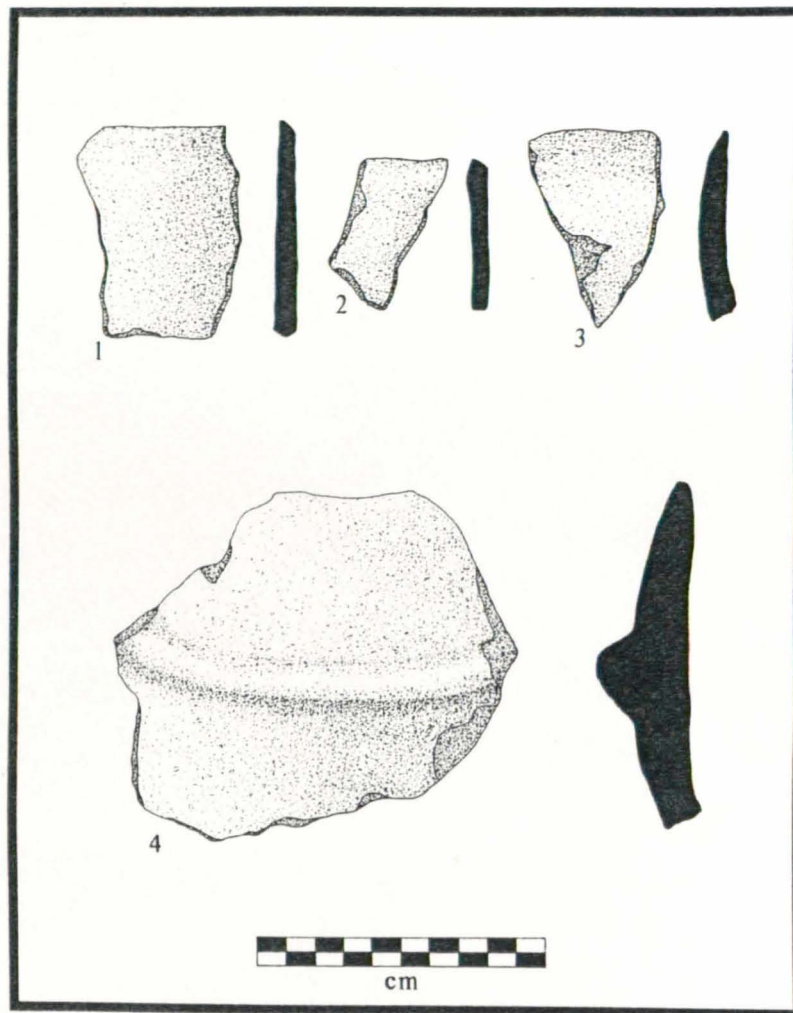
Cimbra[□]



Campico de Lébor[□]



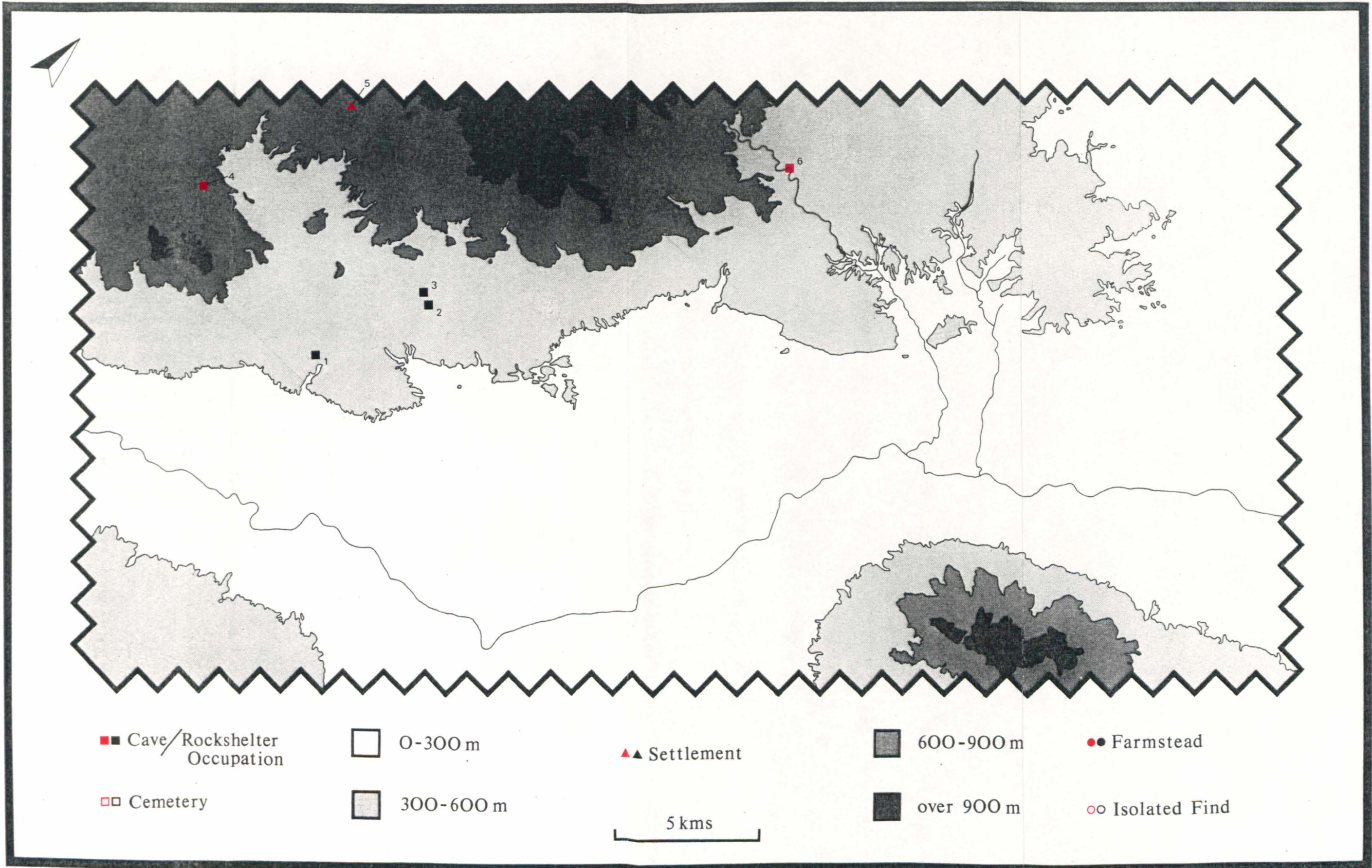
Campico de Lébor[□]



Campico de Lébor[□]

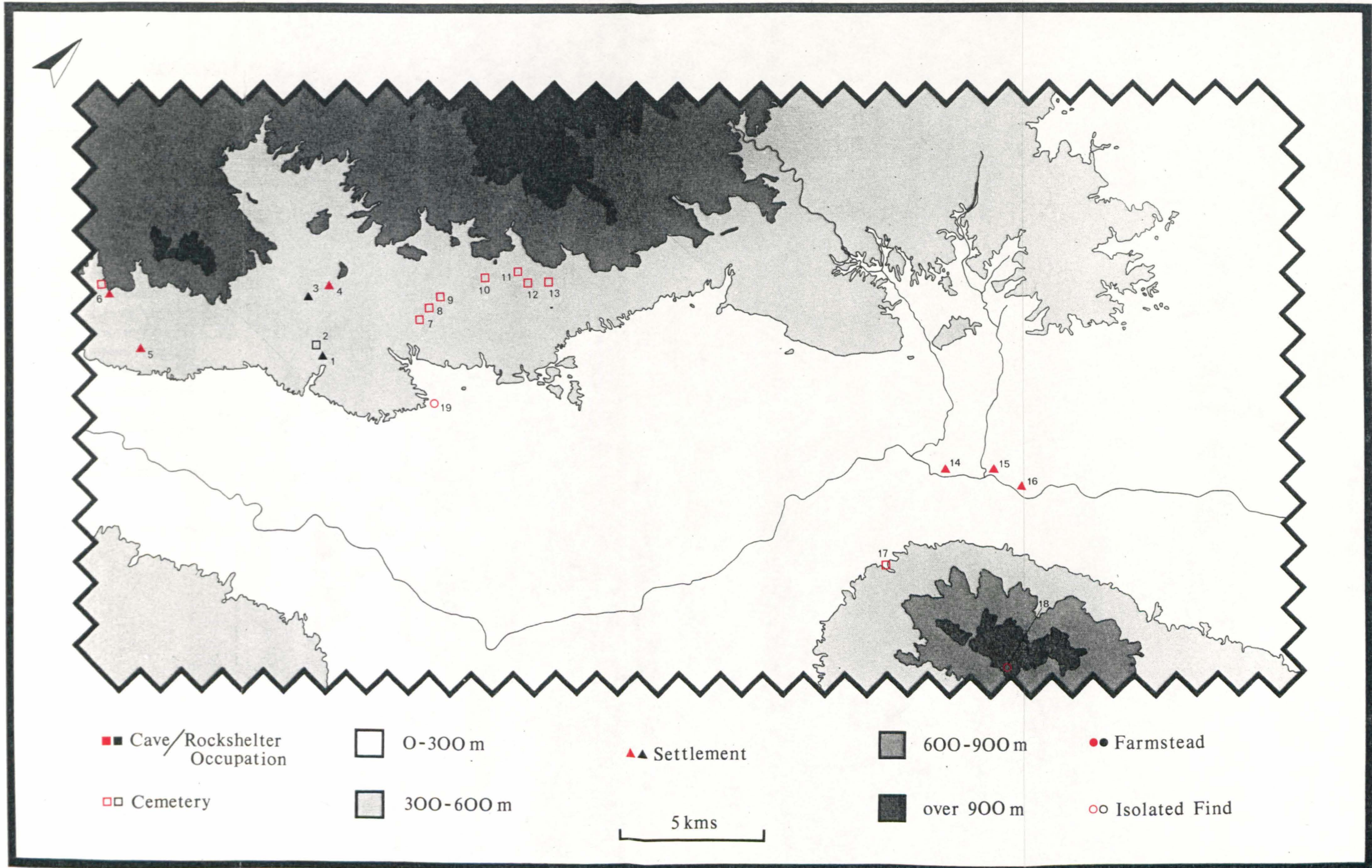
LIST OF PALAEO-LITHIC/EPIPALAEO-LITHIC SITES BEFORE AND AFTER SURVEY

-
-
1. Cejo del Pantano (Totana)
 2. Los Mortolitos (Yéchar)
 3. Rincón de Yéchar (Yéchar)
 4. Sierra de Chichar (Los Allozos)
 5. Casas de Cancari (Alto de Cancari)
 6. Berro (Berro)
-
-



LIST OF COPPER AGE SITES BEFORE AND AFTER SURVEY

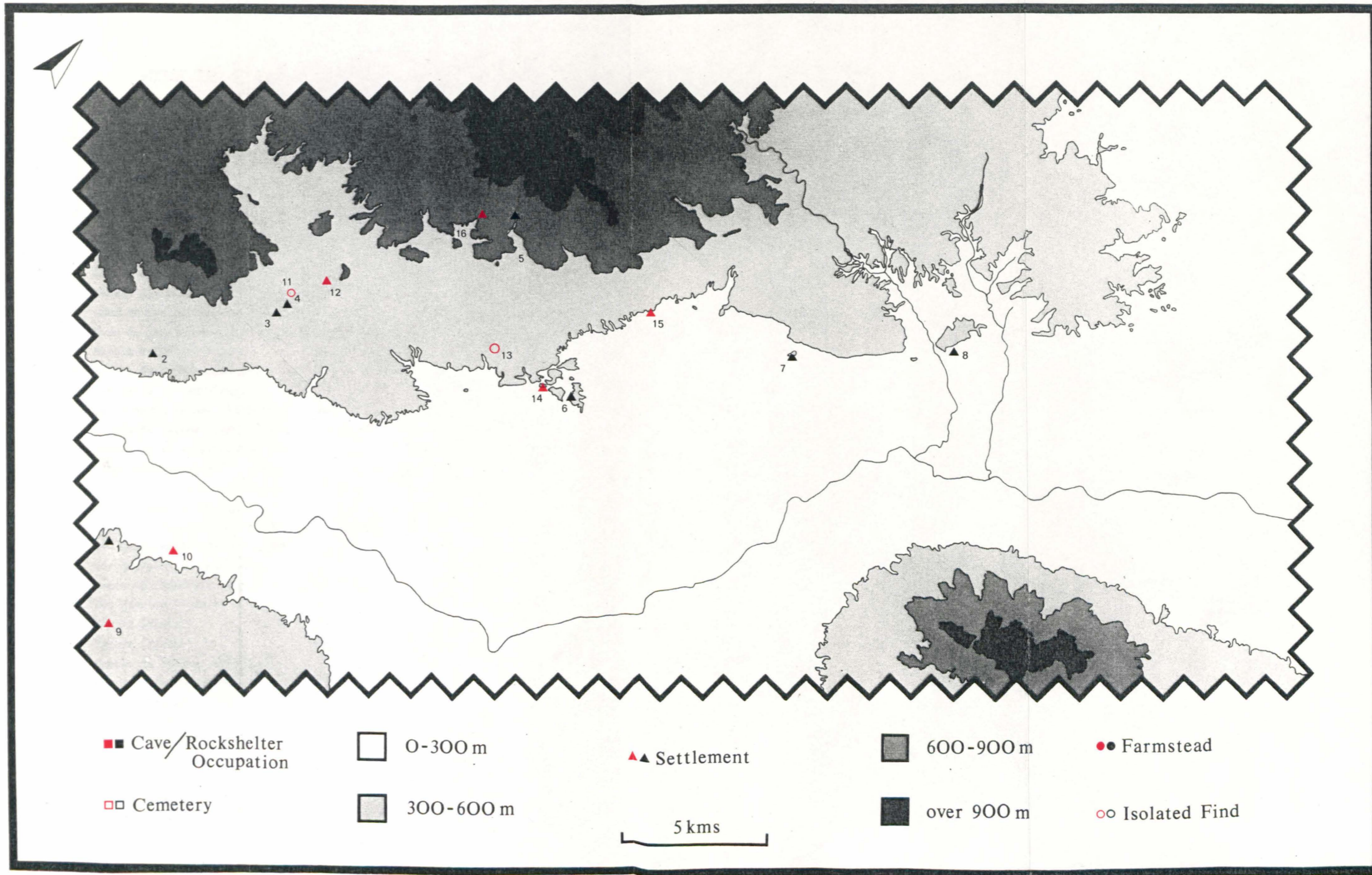
-
-
1. Campico de Lébor (Totana)
 2. Los Blanquizaes de Lébor (Totana)
 3. Juan Climaco (Totana)
 4. Cimbra (Totana)
 5. La Hoya (La Hoya)
 6. Morra Quemado (La Hoya)
 7. Yéchar (Yéchar)
 8. Yéchar (Yéchar)
 9. Yéchar/Los Mortolitos (Yéchar)
 10. Casa Forestal Mortí (Mortí)
 11. Casa de Cancari (Alto de Cancari)
 12. Casa de Cancari (Alto de Cancari)
 13. Casa de Cancari (Alto de Cancari)
 14. Reguerón Bridge (Librilla)
 15. Rambla de Librilla or Orón (Librilla)
 16. El Cañarico (Librilla)
 17. Rambla de Peñas Blancas (Sierra de Carrascoy)
 18. Cabezo del Barranco Blanco (Sierra de Carrascoy)
 19. Totana Prison (Totana)
-
-



LIST OF BRONZE AGE SITES BEFORE AND AFTER SURVEY

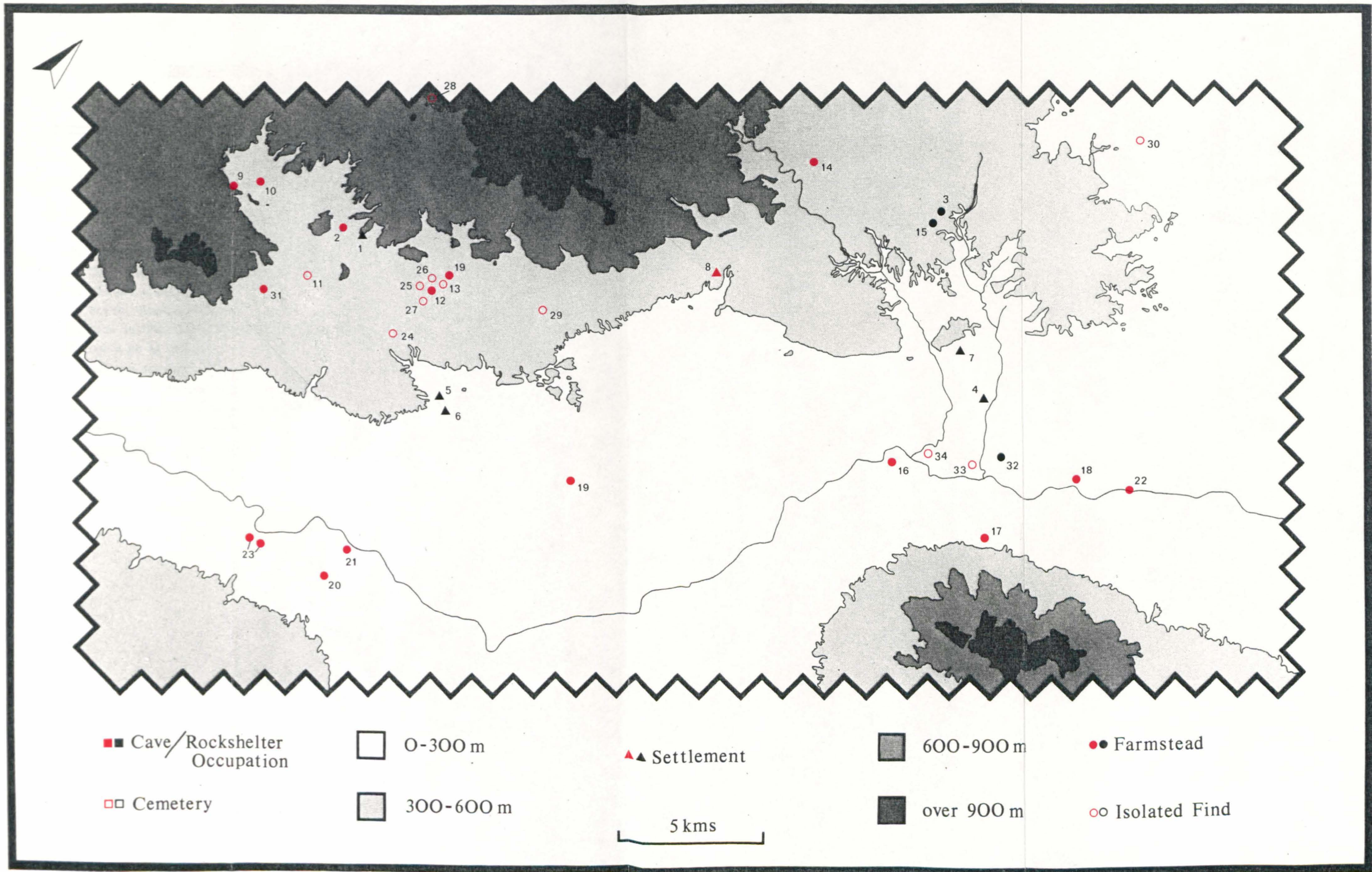
-
-
1. Cerro del Tesoro or Cerro de la Cuenca de la Palica (Hinojar)▲
 2. La Hoya (La Hoya)▲
 3. Las Anchuras (Totana)▲
 4. La Bastida (Totana)▲
 5. Cueva de la Moneda (El Algarrobo)
 6. Cabezo Gordo (Alto de Colmenar)▲
 7. Castillo de Alhama (Alhama de Murcia)
 8. El Castellar (Librilla)
 9. Alto de Campico (Hinojar)▲
 10. Hinojar (Hinojar)
 11. Cimbra (Totana)▲
 12. Sierrecica (Totana)
 13. Los Bebedores (Totana)
 14. La Tira del Lienzo (Alto de Loma Larga)▲
 15. Caserio Azaraque (Alhama de Totana)
 16. Casas del Algarrobo (El Algarrobo)
-
-

▲= sites clearly associated with Argaric occupation



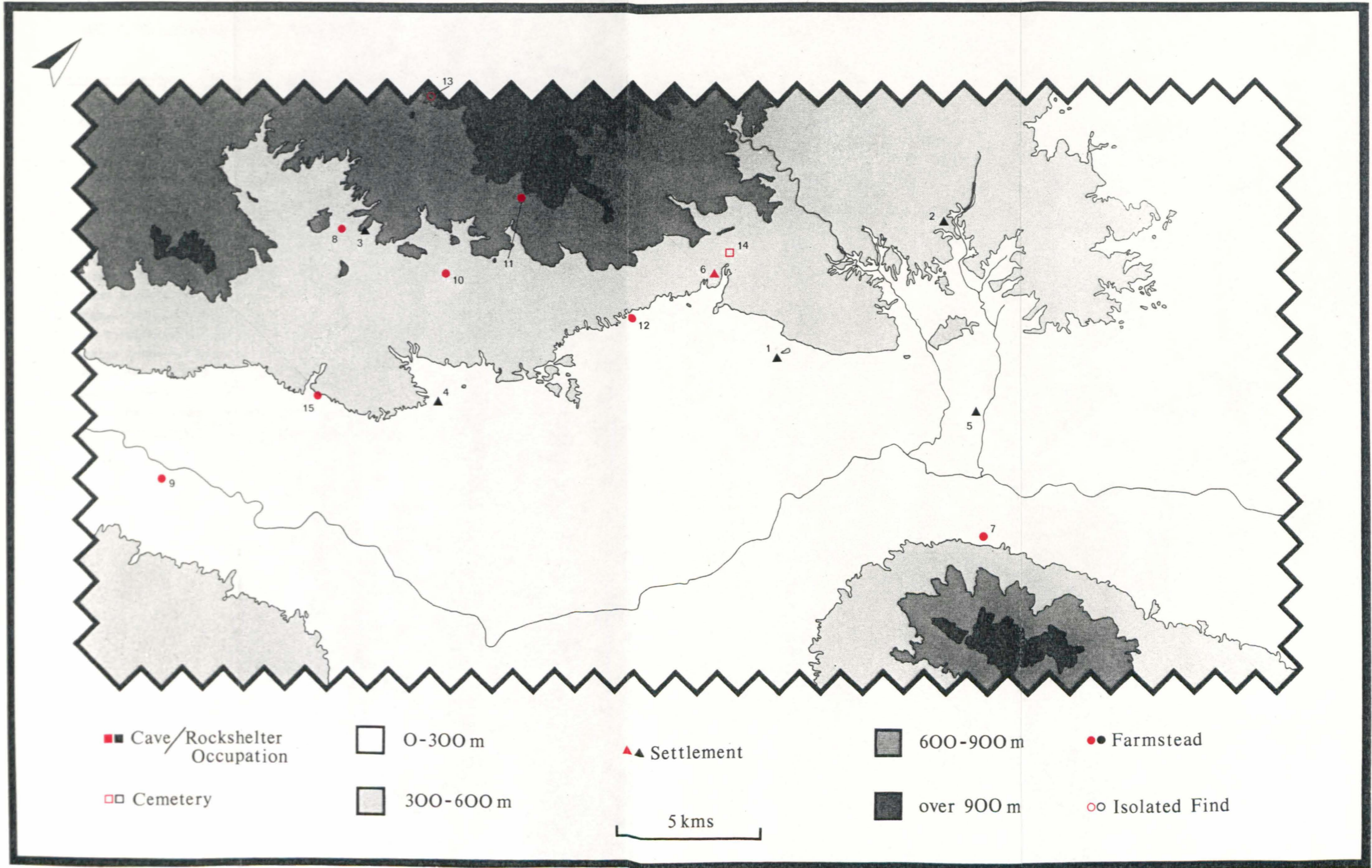
LIST OF IBERO-ROMAN SITES BEFORE AND AFTER SURVEY

-
-
1. Castillo de Aledo (Aledo)
 2. Patalache (Aledo)
 3. El Castillo (Fuente-Librilla)
 4. Librilla (Librilla)
 5. Las Cabezuelas (Totana)
 6. Totana (Totana)
 7. El Castellar (Librilla)
 8. Rambla del Molino (Alhama de Murcia)
 9. Cruz de los Allozos (Los Allozos)
 10. Cruz de los Allozos (Los Allozos)
 11. Rambla de Lébor (Totana)
 12. Rambla de Yéchar (Yéchar)
 13. Rambla de Totana (Totana)
 14. Casas Mojón Blanco (Gébas/Fuente-Librilla)
 15. Rambla de Fuente Librilla (Fuente Librilla)
 16. Rambla de Algeciras (Librilla)
 17. Casas del Barranco de la Murta (Sierra de Carrascoy)
 18. Casa del Tío Perete (Librilla)
 19. Casa de Guillén (Totana)
 20. Casa de Zamora/Caserio de Olivares (Raiquero Alto)
 21. Río Guadalentín (Corral Rubio)
 22. Río Guadalentín (Jorquera)
 23. Venta del Pantón o Cañizares (Corral Rubio)
 24. Los Huertos (Totana)
 25. Yéchar (Yéchar)
 26. Yéchar (Yéchar)
 27. Rambla de Yéchar (Yéchar)
 28. Barranco de Ballesteros (Sierra Espuña)
 29. Casa de Cancari (Alto de Cancari)
 30. Rambla Salada (Cabezo del Anaori)
 31. Cimbra (Totana)
 32. Villa Adelaida (Librilla)
 33. Rambla de Librilla or Orón (Librilla)
 34. Rambla de Algeciras (Librilla)
-
-



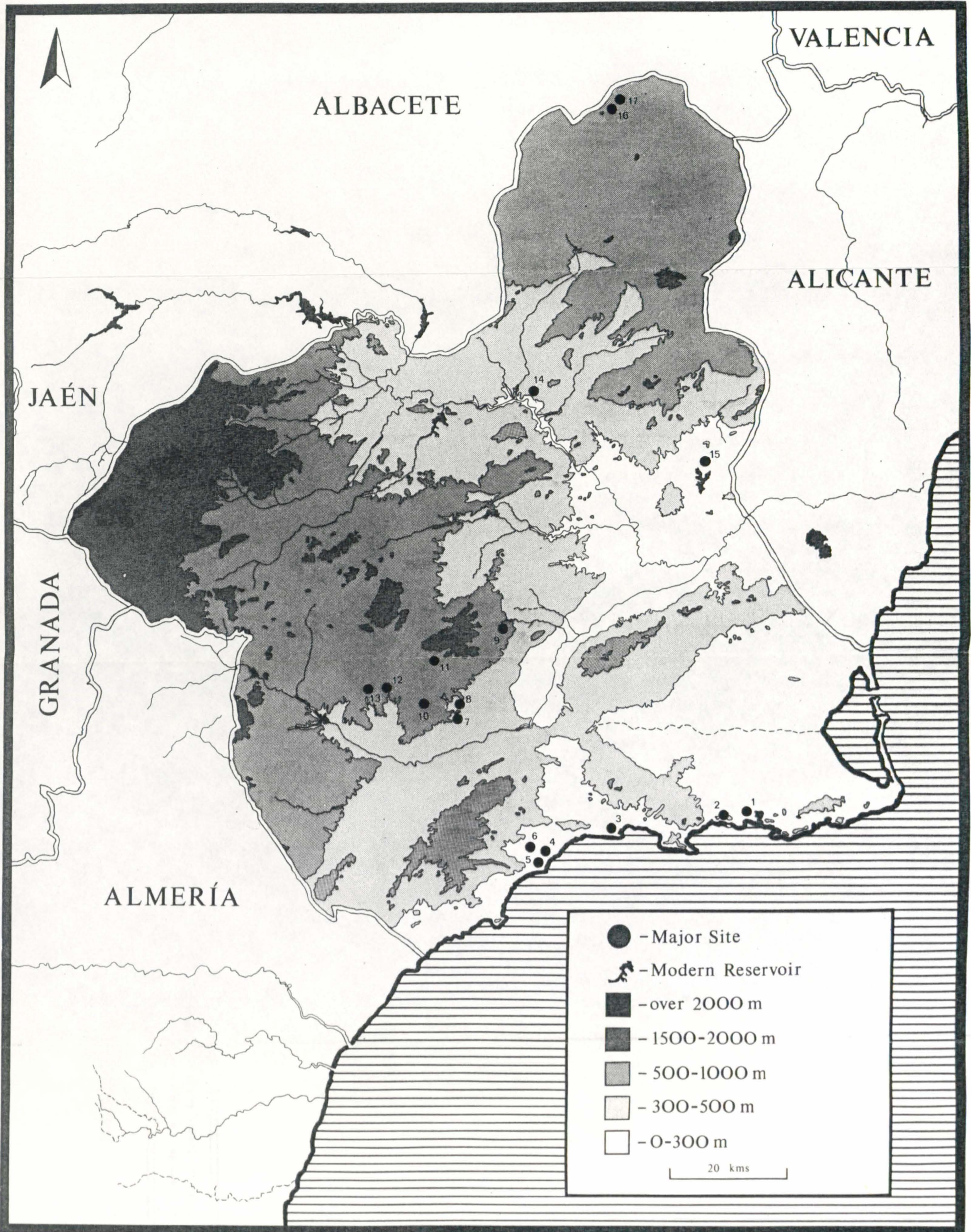
LIST OF MEDIEVAL SITES BEFORE AND AFTER SURVEY

-
-
1. Castillo de Alhama (Alhama de Murcia)
 2. Fuente-Librilla (Fuente-Librilla)
 3. Castillo de Aledo (Aledo)
 4. Totana (Totana)
 5. Librilla (Librilla)
 6. Caserio Paso de Mula (Alhama de Murcia)
 7. Casas del Barranco de la Murta (Sierra de Carrascoy)
 8. Patalache (Aledo)
 9. Rambla Viznaga (Hinojar)
 10. Casa del Murciano (Mortí)
 11. Cueva de la Moneda (El Algarrobo)
 12. Caserio Azaraque (Alhama de Murcia)
 13. Barranco de Ballesteros (Sierra Espuña)
 14. Rio Espuña (Berro/Cebas/Alhama de Murcia)
 15. Rambla de Lébor (Totana)
-
-



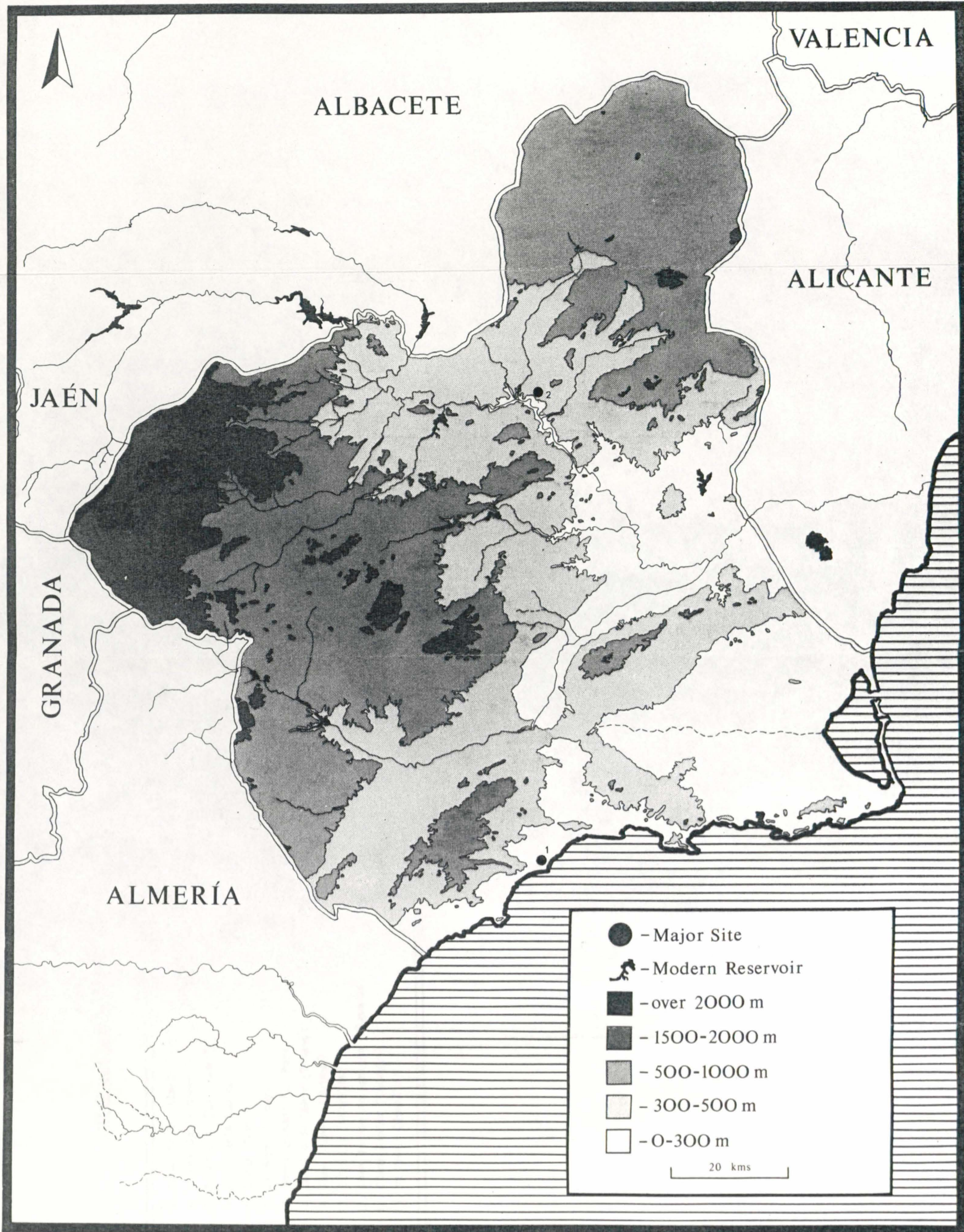
LIST OF MAJOR PALAEOETHIC/EPIPALAEOETHIC SITES IN THE PROVINCE OF MURCIA

-
-
1. Cueva de los Aviones (Cartagena)
 2. Cueva Vermeja (Cartagena)
 3. Cueva del Palomarico (Puerto de Mazarrón)
 4. Cueva Ahumada/Cueva de los Tollos (Calnegre)
 5. Cueva de las Pernerias (Calnegre)
 6. Cueva del Tesoro/Cueva de las Palomas (Pastrana)
 7. Cejo del Pantano (Totana)
 8. Los Mortolitos/Cueva de Hernández Ros/Rincón de Yéchar (Totana)
 9. Berro (Berro, Murcia)
 10. Sierra de Chichar (Los Allozos)
 11. Santa Leocadia (Aledo)
 12. Zuñiga (Zuñiga/Torralba)
 13. Las Raspajos (Los Raspajos)
 14. Abrigo Grande del Barranco de los Grajos (Cieza)
 15. Rambla del Agua Salada (Fortuna)
 16. Cueva Horadada (Yecla)
 17. Cantos de la Visera (Yecla)
-
-



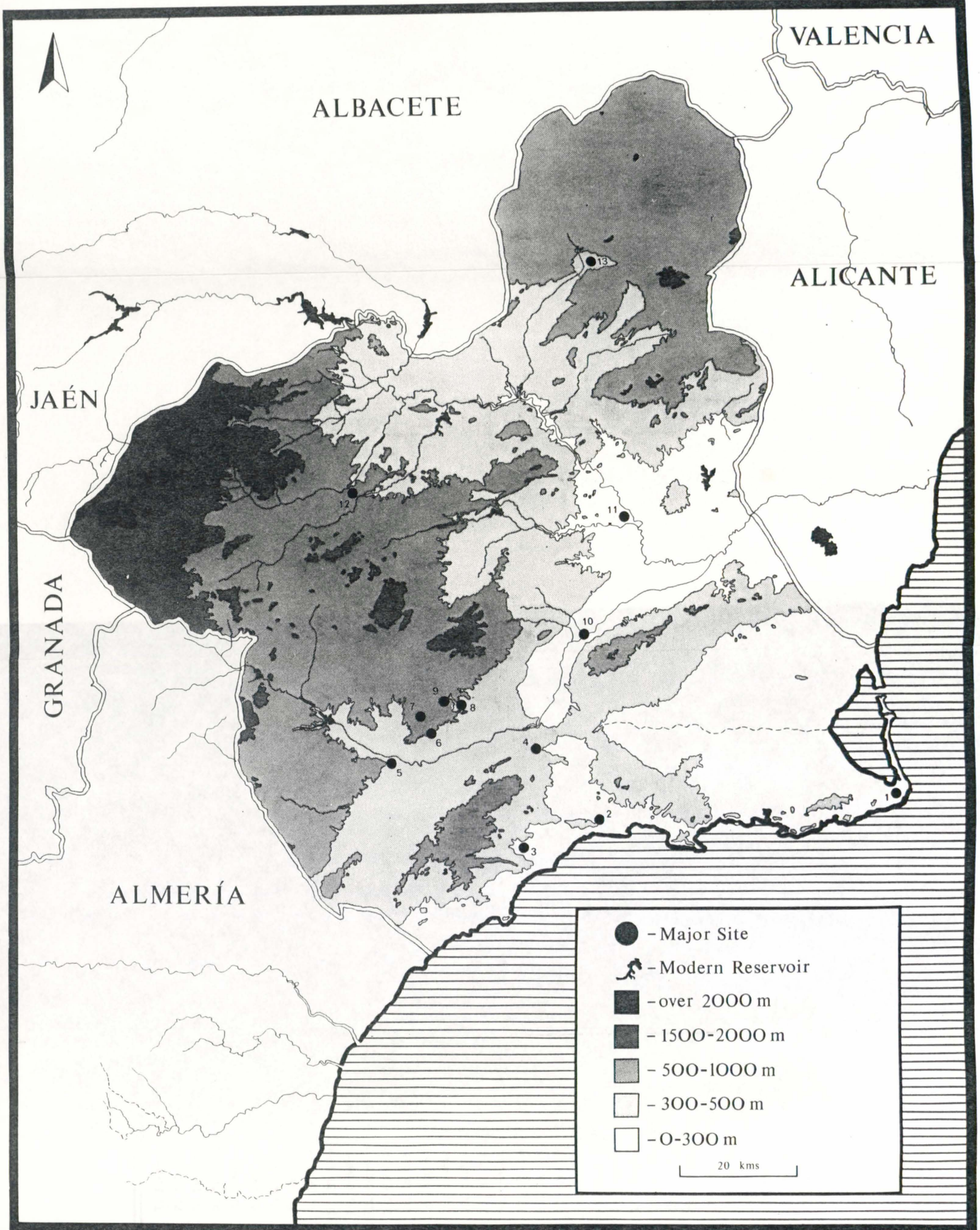
LIST OF MAJOR NEOLITHIC SITES IN THE PROVINCE OF MURCIA

-
-
1. Cueva de los Toyos (Calnegre)
 2. Abrigo Grande del Barranco de los Grajos (Cieza)
-
-



LIST OF MAJOR COPPER AGE SITES IN THE PROVINCE OF MURCIA

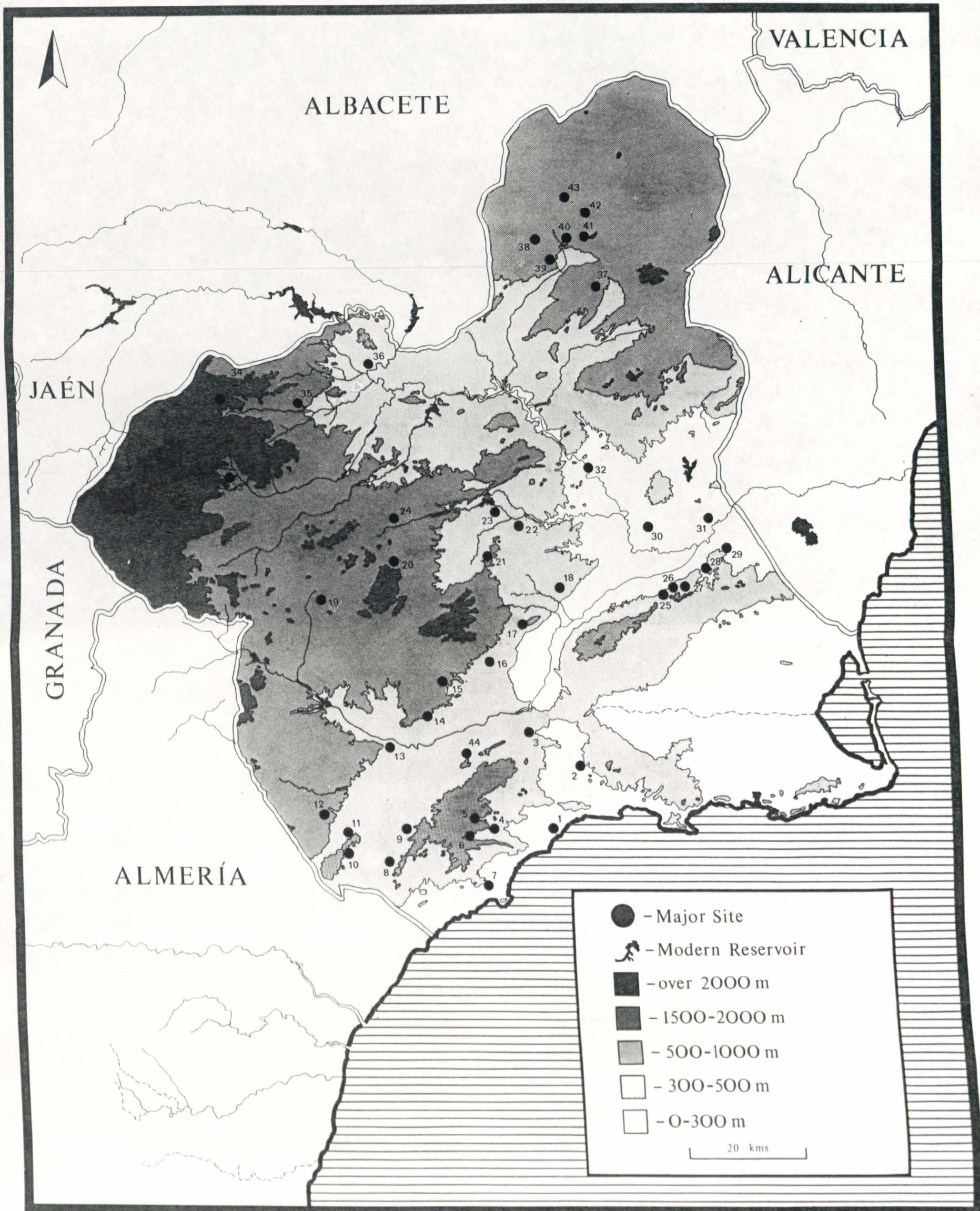
-
-
1. Dunas de las Almoladeras (Cabo de Palos)
 2. Cabezo de la Cueva del Plomo (Mazarrón)
 3. Parazuelos (Los Curas)
 4. La Ceñuela (Lorca)
 5. Lorca (Lorca)
 6. La Hoya (La Hoya)
 7. Morra Quemado (La Hoya)
 8. Campico de Lébor (Totana)
 9. Juan Climaco (Totana)
 10. Librilla (Librilla)
 11. Loma de los Peregrinos (Alguazas)
 12. Cueva Amador (Cehegin)
 13. El Prado (Jumilla)
-
-



LIST OF MAJOR BRONZE AGE SITES IN THE PROVINCE OF MURCIA

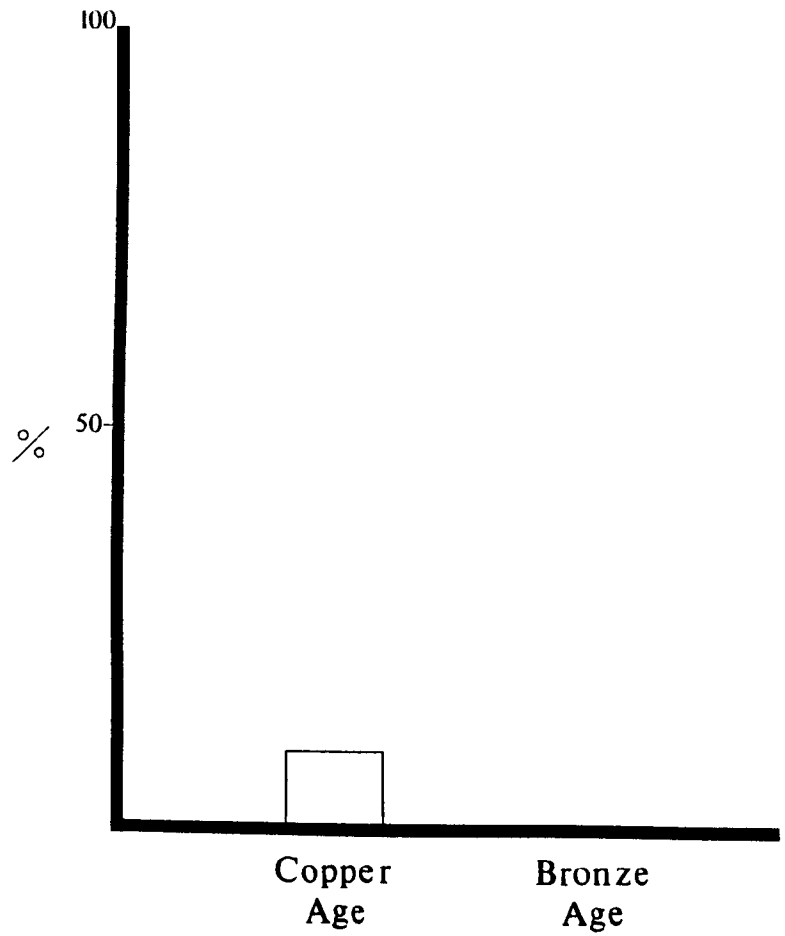
-
-
1. Punta de los Gavilanes/Cerro del Aguila (Mazarrón)
 2. Cabezo de las Viboras/Fuente del Saladilla (Mazarrón)
 3. La Ceñuela (Lorca)
 4. Ifre (Calnegre)
 5. Cabezo Negro (Pastrana)
 6. Zapata (Pastrana)
 7. Loma de Bas/Cabellera de Alicia/Monte Moises (Cope)
 8. Cabezo Liron/Cabezo de las Piedras/Cerro del Moro/Pino Real (La Escarihuela)
 9. La Alcanara/La Capellania de Purias (La Escarihuela)
 10. El Rincón (Almendricos)
 11. Cañada de Alba (Puerto Lumbreras)
 12. Cerro de la Cruz (Puerto Lumbreras)
 13. Castillo de Lorca (Lorca)
 14. La Hoya (La Hoya)
 15. Las Anchuras/La Bastida (Totana)
 16. Cabezo Gordo (Totana)
 17. Castillo de Alhama (Alhama de Murcia)
 18. El Castellar (Librilla)
 19. Cabezo de las Viñas (Coy)
 20. El Castellar (Sierra Cambron)
 21. La Almoloya (Pliego)
 22. Castillo de la Puebla/Cerro de la Plata (Albudeite)
 23. Piedra Plomera (Mula)
 24. Fuente Higuera (Bullas)
 25. Castillo del Puerto de la Cadena (Puerto de la Cadena)
 26. Cerro de Santa Catalina (Puerto de la Cadena)
 27. La Fuensanta (Puerto de la Cadena)
 28. Puntarron Chico (Beniaján)
 29. Cañadas de San Pedro (Zenete)
 30. Monteagudo (Murcia)
 31. Cobatilla la Vieja (Murcia)
 32. Cabezo Redondo/Archena (Archena)
 33. Peña Jarota (El Sabinar)
 34. Molata de Fuensanta/Puntal de la Cueva de la Higuera (El Sabinar)
 35. Moratalla la Vieja (Moratalla)
 36. Cañaverosa (Calaspara)
 37. La Calesica (Casas del Puerto)

38. Los Gorgociles del Escabezado (Jumilla)
 39. El Morronazo (Jumilla)
 40. Cerro de los Toyos (Jumilla)
 41. Cerro del Buen Aire (Jumilla)
 42. Cerrico de los Conejos (Jumilla)
 43. Cerrico Conejero (Jumilla)
 44. Cerro del Tesoro or Cerro de la Cuenca de la Palica (Hinojar)
-
-

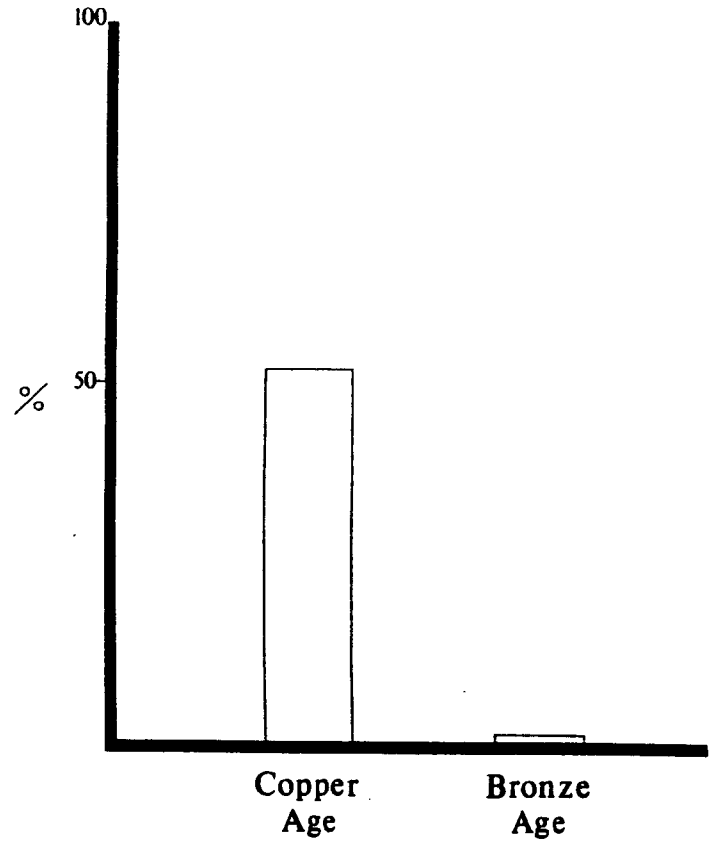


Comparisons between Copper Age and Bronze Age Tomb Contents

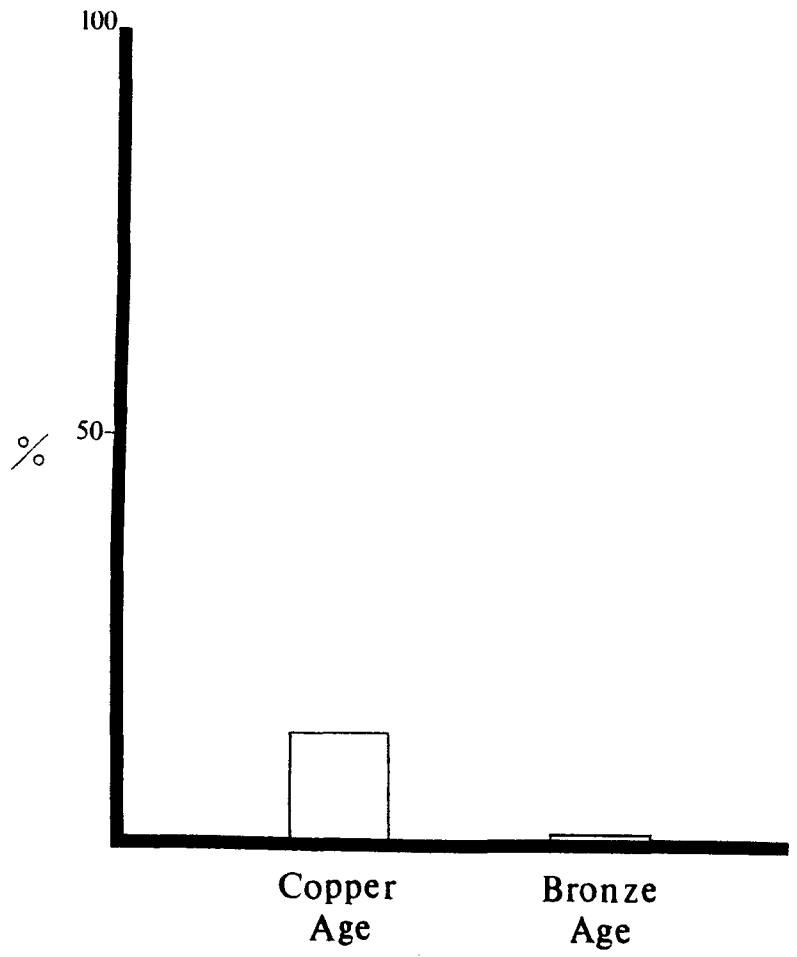
Tombs Containing Decorated Pottery



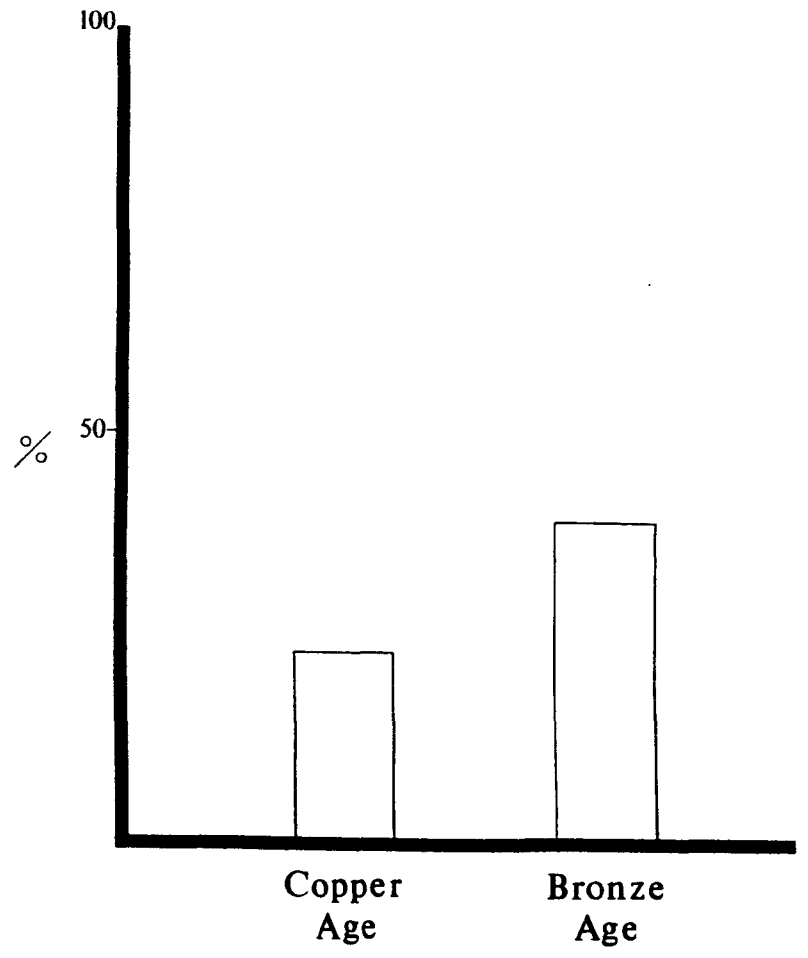
**Tombs Containing Polished and Unpolished Stone Objects
(including flint and excluding stone beads)**



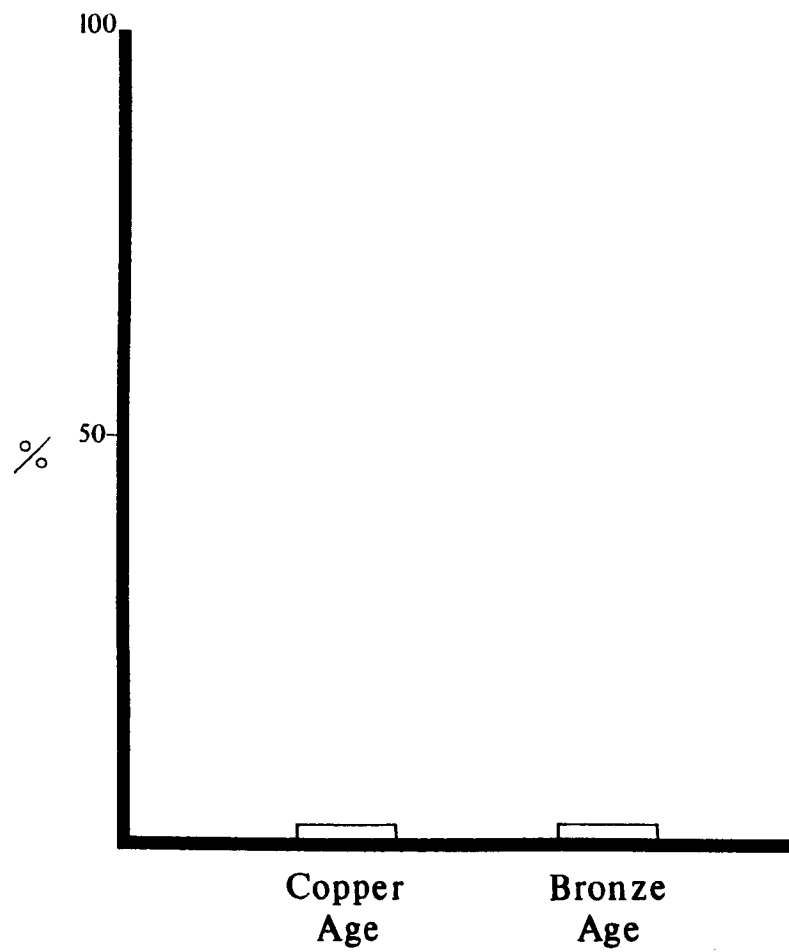
Tombs Containing Polished Stone Objects



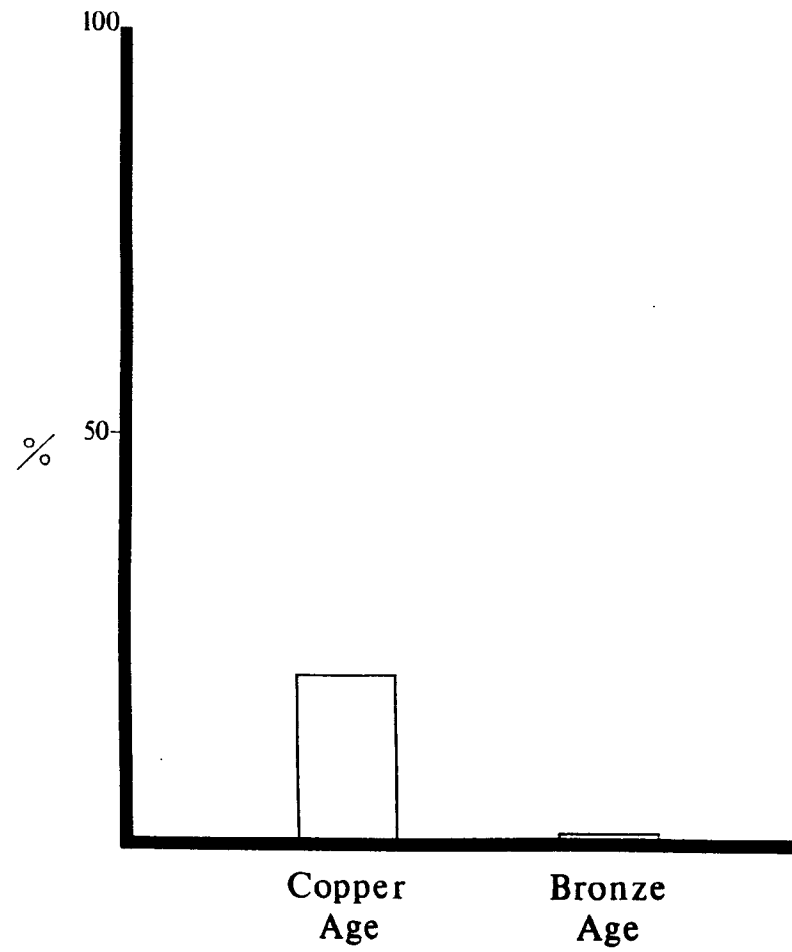
Tombs Containing Copper/Bronze Objects



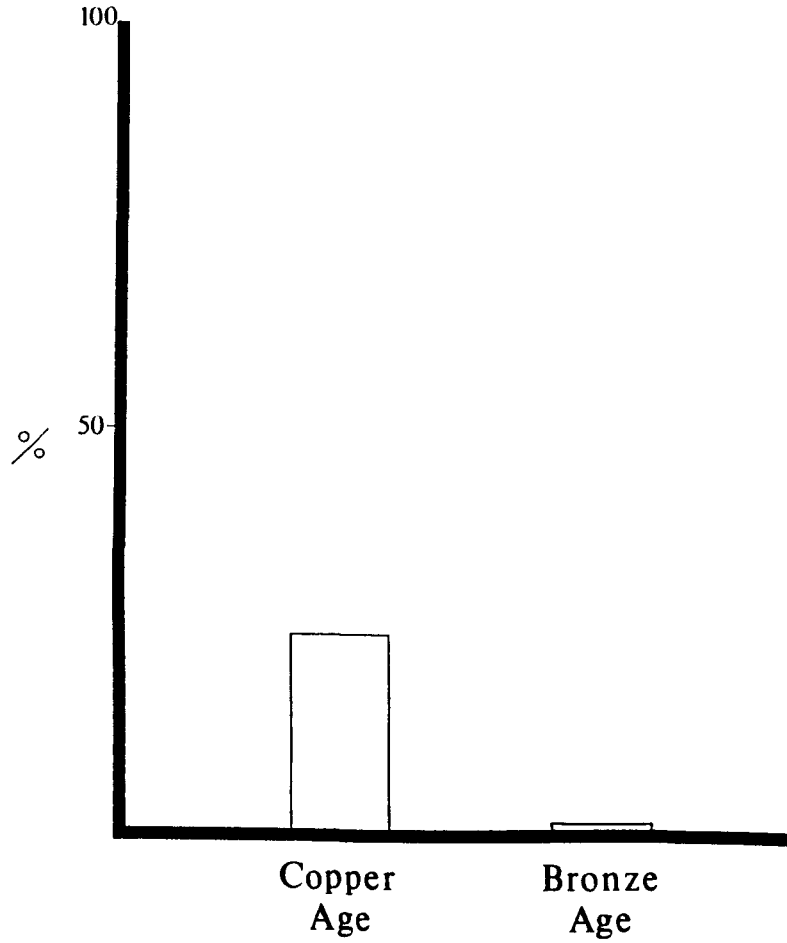
Tombs Containing Ivory Objects



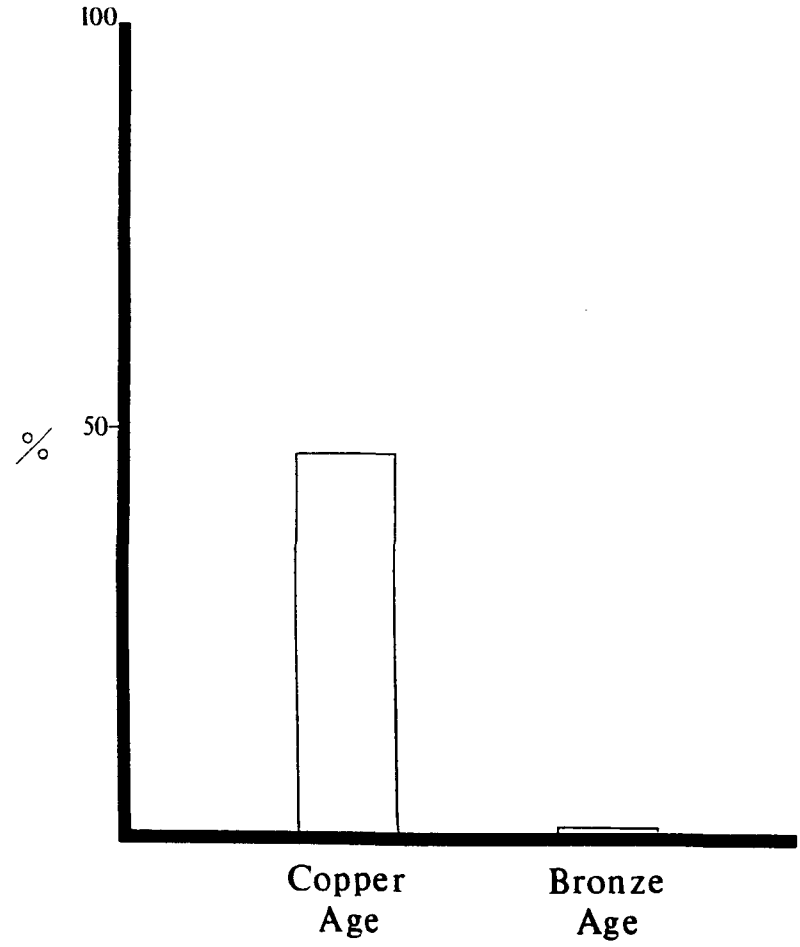
Tombs Containing Shell Objects (excluding beads)



Tombs Containing Bone Objects
(excluding beads)



Tombs Containing Flint Objects



BURNT AND UNBURNT SKELETAL MATERIAL FROM THE LOS MILLARES CEMETERY (SANTA FE DE MONDÚJAR, ALMERÍA)

Leisner Tomb Number	No. of Individuals (Unburnt)	No. of Individuals (Burnt)
Tomb 1	11	-
Tomb 2	18-19	-
Tomb 3	7-8	-
Tomb 4	25	-
Tomb 5	50	-
Tomb 6	8	-
Tomb 7	50	-
Tomb 8	19	1
Tomb 9	35	-
Tomb 10	30	-
Tomb 11	19	1
Tomb 12	12	-
Tomb 13	50	1
Tomb 14	6	-
Tomb 15	32	-
Tomb 16	21	-
Tomb 17	20	-
Tomb 18	25	-
Tomb 19	17	x
Tomb 20	15	20
Tomb 21	17	-
Tomb 22	20	20
Tomb 23	25	-
Tomb 24	21	-
Tomb 25	-	-
Tomb 26	4	-
Tomb 27	8	-
Tomb 28	-	-
Tomb 29	-	-
Tomb 30	40	-
Tomb 31	-	-
Tomb 32	20	-
Tomb 33	4	-
Tomb 34	12	-
Tomb 35	-	-
Tomb 36	?	?
Tomb 37	-	-
Tomb 38	?	-
Tomb 39	12-13	-
Tomb 40	114	-
Tomb 41	26	-
Tomb 42	46	-
Tomb 43	19	-
Tomb 44	24	-
Tomb 45	11	-

BURNT AND UNBURNT SKELETAL MATERIAL FROM THE LOS MILLARES CEMETERY (SANTA FE DE MONDÚJAR, ALMERÍA) (Continued)

Leisner Tomb Number	No. of Individuals (Unburnt)	No. of Individuals (Burnt)
Tomb 46	25	-
Tomb 47	-	12
Tomb 48	5	-
Tomb 49	6	-
Tomb 50	-	8
Tomb 51	4	-
Tomb 52	10	-
Tomb 53	-	6
Tomb 54	-	x
Tomb 55	22	-
Tomb 56	8	-
Tomb 57	-	30
Tomb 58	-	-
Tomb 59	-	8
Tomb 60	-	-
Tomb 61	-	-
Tomb 62	6	-
Tomb 63	?	?
Tomb 64	2	-
Tomb 65	10	-
Tomb 66	-	-
Tomb 67	-	30
Tomb 68	6	-
Tomb 69	7	-
Tomb 70	-	-
Tomb 71	-	20
Tomb 72	?	?
Tomb 73	-	-
Tomb 74	-	-
Tomb 75	-	x
TOTALS	1011 (86.41%)	199 (13.59%)

x = Remains present, but no details about the number of individuals (counted as 1 individual in this table)

? = Remains present, but no details about the number of individuals or the type of remains (i.e. burnt or unburnt) - (not counted on this table)

(Source: Almagro and Arribas 1963: 177-179)

Note - For Tombs such as No. 2 or No. 39 (where the number of individuals cited is 18-19 and 12-13 respectively), the lower figure was used in calculating the totals.

ANIMAL REMAINS FROM ARGARIC CEMETERIES IN SOUTH-EAST SPAIN¹

Cemetery	Tomb No.	Location	Tomb Type	Animal Remains
La Almoloya	3	Pliego (Murcia)	Cist	Present, but no details regarding species or quantity
Cuesta del Negro ²	2	Purullena (Granada)	'Covacho'/Pit	Present, but no details regarding species or quantity
Alhama	1	Alhama de Granada (Granada)	Cist	Unspecified number of pig and rabbit bones inside funerary vessel, and 1 ovicaprine femur outside it
Cerro del Culantrillo	3	Gorafe (Granada)	'Covacho'/Pit	1 fragment of hare (<u>Lepus timidus</u>)
Cerro del Culantrillo	5	Gorafe (Granada)	'Covacho'/Pit	Unspecified number of pig phalanges
El Picacho	'Fosa 2'	Oria (Almería)	'Covacho'/Pit	Unspecified number of goat bones
El Picacho	Urn 1	Oria (Almería)	Urn	Unspecified number of goat bones
El Picacho	Urn 2	Oria (Almería)	Urn	Unspecified number of bones, including some goat
El Picacho	Urn 3	Oria (Almería)	Urn	Unspecified number of young goat bones
El Picacho	Urn 9	Oria (Almería)	Urn	Unspecified number of goat bones

ANIMAL REMAINS FROM ARGARIC CEMETERIES IN SOUTH-EAST SPAIN (Continued)

Cemetery	Tomb No.	Location	Tomb Type	Animal Remains
El Picacho	Urn 10	Oria (Almería)	Urn	Present, but no details regarding species or quantity
Ubéda	?	Ubéda (Jaén)	Cist	Dog skull

¹ None of these bones appear to have any traces of artificial modification and^{2a} therefore regarded by their respective excavators as food remains which accompanied the dead.

² Recent unpublished excavations at Cuesta del Negro (Molina and Róldan 1983; 98) have also produced animal remains from a large number of Argaric tombs, including ovicaprines, cattle, and in 2 cases, eagle bones.

Sources: Cuadrado Díaz 1944-1945; Molina and Pareja 1975; Navarrete and Carrasco 1979; García Sánchez 1963; Hernández and Dug 1975; Vañó Silvestre 1962

INVENTORY OF COPPER AGE CEMETERIES

(1)	Baños de Alicún (Villanueva de las Torres, Granada)	(Leisner and Leisner 1943) (García Sánchez and Spahn 1949)
(2)	Llano de Alicún (Villanueva de las Torres, Granada)	" "
(3)	Cerro de la Graja (Villanueva de las Torres, Granada)	" "
(4)	La Sabina (Gorafe-Guadix, Granada)	" "
(5)	Las Majadillas (Gorafe, Granada)	" "
(6)	Llano de la Cuesta de Guadix (Guadix, Granada)	" "
(7)	Llano de Olivares (Gorafe-Guadix, Granada)	" "
(8)	Hoyas del Conquin (Gorafe, Granada)	" "
(9)	Llano del Gorrillo de las Liebres (Cuadix, Granada)	" "
(10)	Las Viñas (Guadix, Granada)	" "
(11)	Loma de la Torre (Cuadix, Granada)	" "
(12)	La Gabiarra (Gor, Granada)	" "
(13)	Llano de Carrascosa (Gor, Granada)	" "
(14)	Torrecilla (Gor, Granada)	" "
(15)	El Baul (Gor, Granada)	" "
(16)	Llano de la Carrascosa (Gor, Granada)	" "
(17)	Llano del Carrascal (Gor, Granada)	" "
(18)	Cejo de las Cabrerizas (Gor, Granada)	" "
(19)	Las Angosturas (Gor, Granada)	" "
(20)	Las Torrecillas (Gor, Granada)	" "
(21)	Llano de las Torrecillas (Gor, Granada)	" "
(22)	Llano de las Viñas (Gor, Granada)	" "
(23)	Loma de las Viñas (Gor, Granada)	" "
(24)	Pileta de la Zorra (Tozar, Granada)	(Ferrer Palma 1981)
(25)	Pantano de los Bermejales (Arenas del Rey, Granada)	(Ferrer Palma and Pareja 1975)
(26)	Liñan Farm (Arenas del Rey, Granada)	(Arribas and Sánchez del Corral 1970)
(27)	Navilla (Arenas del Rey, Granada)	(Arribas and Sánchez del Corral 1970)

(28)	Cortija del Cura (Arenas del Rey, Granada)	(Arribas and Sánchez del Corral 1970)
(29)	Cruz del Tío Cogollero (Fonelas, Granada)	(Leisner and Leisner 1943)
(30)	Loma del Macairo (Fonelas, Granada)	" "
(31)	Loma de la Manga (Fonelas, Granada)	" "
(32)	Loma del Aspador (Fonelas, Granada)	" "
(33)	Loma de los Peralicos (Fonelas, Granada)	" "
(34)	Los Llanillos (Fonelas, Granada)	" "
(35)	Llano de la Teja (Fonelas, Granada)	" "
(36)	Loma de los Alamos Negros (Fonelas, Granada)	" "
(37)	Puntal de Alamos Negros (Fonelas, Granada)	" "
(38)	Los Eriales (Laborcillas, Granada)	" "
(39)	Las Peñuelas (Laborcillas, Granada)	" "
(40)	La Fonseca (Laborcillas, Granada)	" "
(41)	La Campana (Laborcillas, Granada)	" "
(42)	Pedro Martínez/Cañada del Aguila (Laborcillas, Granada)	" "
(43)	Las Peñicas (Noreda, Granada)	" "
(44)	Hoya de los Madrigueros (Huélago, Granada)	" "
(45)	Hazas de la Coscoja (Huélago, Granada)	" "
(46)	Meseta del Mudo (Almía, Granada)	" "
(47)	Montefrío (Montefrío, Granada)	" "
(48)	Maratonés (Almedilla, Almería)	" "
(49)	Loma de los Pardos (Albox, Almería)	" "
(50)	Cerro de la Torre (Albox, Almería)	" "
(51)	Piedras de Canjayar (Alcoléa, Almería)	" "
(52)	Loma del Mojón (Alhama de Almería, Almería)	" "
(53)	Loma de Galera (Alhama de Almería, Almería)	" "
(54)	Llano de los Frailes (Alhama de Almería, Almería)	" "
(55)	Huechar Alhama (Alhama de Almería, Almería)	" "
(56)	Almizaraque (Cuevas de Almanzora, Almería)	" "

● (57)	Cabezo de la Pernera (Antas, Almería)	(Leisner and Leisner 1943)	"
● (58)	Fuente del Lobo (Antas, Almería)	"	"
● (59)	Llanos Colorados (Antas, Almería)	"	"
● (60)	Cabezo del Moro (Antas, Almería)	"	"
● (61)	Loma de Rutila (Antas, Almería)	"	"
● (62)	El Ajazar (Antas, Almería)	"	"
● (63)	Curenima (Antas, Almería)	"	"
● (64)	Cabecito de Aguilar (Mojácar, Almería)	(Leisner and Leisner 1943) (Arribas 1955-1956)	"
(65)	Los Ruriales (Arboleas, Almería)	"	"
(66)	Loma de los Planes (Arboleas, Almería)	"	"
(67)	Cuesta del Río (Beatón, Almería)	"	"
(68)	Las Balsicas (Beatón, Almería)	"	"
(69)	Llano del Barranco Hondo (Beatón, Almería)	"	"
(70)	Los Callardos (Bédar, Almería)	"	"
(71)	Cañada de los Callados (Bédar, Almería)	"	"
(72)	El Si (Berja, Almería)	"	"
(73)	El Rincón (Cantoria, Almería)	"	"
(74)	Loma del Cucador (Cantoria, Almería)	"	"
(75)	Cabezo de la Copa (Cantoria, Almería)	"	"
(76)	Loma de Almanzora (Cantoria, Almería)	"	"
(77)	Loma de la Torre (Cantoria, Almería)	"	"
(78)	Loma de Aguilas (Cantoria, Almería)	"	"
(79)	Loma de la Suerte (Cantoria, Almería)	"	"
(80)	Loma de las Canteras (Cantoria, Almería)	"	"
(81)	Cabezo de Almanzora (Cantoria, Almería)	"	"
(82)	Loma de Agrasarón (Cantoria, Almería)	"	"
● (83)	La Zajara (Cuevas de Almanzora, Almería)	"	"
● (84)	Barranco Hondo (Cuevas de Almanzora, Almería)	"	"
● (85)	Ballbona (Cuevas de Almanzora, Almería)	"	"

● (86)	Campos (Cuevas de Almanzora, Almería)	(Leisner and Leisner 1943)	"
(87)	Llano de la Media Legoa (Fines, Almería)	"	"
● (88)	Los Millares (Santa Fe de Mondújar, Almería)	"	"
● (89)	Loma de la Rambla de Huechar (Santa Fe de Mondújar, Almería)	"	"
● (90)	Loma de Castillejo (Santa Fe de Mondújar, Almería)	"	"
● (91)	Rambla de Huechar (Santa Fe de Mondújar, Almería)	"	"
● (92)	Loma de Belmonte (Santa Fe de Mondújar, Almería)	"	"
● (93)	Los Cabecicos (Huércal, Almería)	"	"
● (94)	Overa (Huércal, Almería)	"	"
● (95)	Loma del Alcanzón (Huércal, Almería)	"	"
● (96)	Loma del Campo de Mojácar (Mojácar, Almería)	"	"
● (97)	Llano Manzano (Mojácar, Almería)	"	"
● (98)	Pueblo de D. Jadrio (Mojácar, Almería)	"	"
● (99)	Cañada Flores (Mojácar, Almería)	"	"
● (100)	Loma del Cabezo de la Mata (Mojácar, Almería)	"	"
● (101)	Caldero de Mojácar (Mojácar, Almería)	"	"
● (102)	Las Peñicas (Níjar, Almería)	"	"
● (103)	Rambla de la Tejera (Níjar, Almería)	"	"
● (104)	El Barranquete (Níjar, Almería)	(Almagro Gorbea, M.J. 1973)	"
● (105)	El Chuche (Pechina, Almería)	(Leisner and Leisner 1943)	"
● (106)	Las Hortichuelas (Níjar, Almería)	(Arribas 1953-1954)	"
(107)	Loma de la Atalaya (Purchena, Almería)	(Leisner and Leisner 1943)	"
(108)	Llano de la Atalaya (Purchena, Almería)	"	"
(109)	Loma del Plantonal (Purchena, Almería)	"	"
(110)	La Lampara (Purchena, Almería)	"	"
(111)	Loma de Jocalla (Purchena, Almería)	"	"
(112)	Barranco de Jocalla (Purchena, Almería)	"	"
(113)	Buena Arena (Purchena, Almería)	"	"
(114)	El Jautón (Purchena, Almería)	"	"

(115)	Las Churuletas (Purchena, Almería)	(Leisner and Leisner 1943)
(116)	Los Arejos (Sorbas, Almería)	" "
(117)	Rambla de la Sierra Verneja (Senes, Almería)	" "
(118)	Rambla de los Hudios/Loma de los Rincones (Senes, Almería)	" "
(119)	El Marchal (Serrón, Almería)	" "
● (120)	Llano de la Rueda (Tabernas, Almería)	" "
● (121)	Rambla de los Pilares (Tabernas, Almería)	" "
● (122)	Loma del Llano de las Eras (Tabernas, Almería)	" "
● (123)	Loma de los Linales (Tabernas, Almería)	" "
● (124)	Rambla de los Pozicos (Tabernas, Almería)	" "
● (125)	Llano del Juncal (Tabernas, Almería)	" "
● (126)	Los Ruriallos (Tabernas, Almería)	" "
● (127)	Cañada de los Meones (Tabernas, Almería)	" "
● (128)	Pozos de los Marchantillos (Tabernas, Almería)	" "
● (129)	Rambla de las Piedras (Tabernas, Almería)	" "
● (130)	Rambla de los Pilares (Tabernas, Almería)	" "
(131)	Unnamed (Tijola)	" "
● (132)	Loma del Boticario (Turre, Almería)	" "
● (133)	Loma de la Casa Alta (Turre, Almería)	" "
● (134)	Las Alparatas (Turre, Almería)	" "
● (135)	Loma de las Albolucas (Turre, Almería)	" "
● (136)	Cueva del Barranco del Mahoma (Turre, Almería)	" "
(137)	El Alamillo/Cañada de la Meneria (Turrillas, Almería)	" "
(138)	Loma del Jas (Urracal, Almería)	" "
(139)	Loma Blanca (Urracal, Almería)	" "
(140)	Cerro de la Alqueria (Vélez region, Almería)	" "
(141)	Sierra de la Alqueria (Vélez region, Almería)	" "
● (142)	Loma de los Caporchanes (Vera, Almería)	" "
● (143)	Rambla de Jativa (Vera, Almería)	" "

● (144)	Loma de la Corriquia (Vera, Almería)	(Leisner and Leisner 1943)
● (145)	Cañada de Muro (Vera, Almería)	" "
● (146)	Puerto Blanco (Vera, Almería)	" "
● (147)	Palacés (Zurgena, Almería)	" "
● (148)	Loma de los Paletones (Totana, Murcia)	" "
● (149)	Cueva de la Jabonera (Totana, Murcia)	" "
● (150)	Cueva de la Tazona (Totana, Murcia)	" "
● (151)	Piedras de Vergara (Lorca, Murcia)	" "
● (152)	Sierra del Cano (Lorca, Murcia)	" "
(153)	El Charcón (Ronda, Málaga)	" "

● = Site in area with less than 300mm of rainfall annually

TOMB SIZE DATA FOR COPPER AGE CEMETERIES IN SOUTH-EAST SPAIN

Cemetery	Average Tomb Size	Minimum Tomb Size	Maximum Tomb Size	No. of Tombs with Data
Baños de Alicún	7.06 m	3.90 m	12.40 m	9
Llano de Alicún	5.14 m	4.00 m	6.40 m	8
Cerro de la Graja	9.00 m	9.00 m	9.00 m	1
La Sabina	4.88 m	2.80 m	9.50 m	24
Las Majañillas	5.72 m	3.60 m	9.10 m	10
Llano de la Cuesta de Guadix	5.11 m	3.50 m	8.50 m	4
Llano de Olivares	4.62 m	3.00 m	5.65 m	3
Hoyas del Conquin	5.66 m	2.65 m	7.95 m	7
Llano del Cerrillo de las Liebres	5.96 m	3.95 m	10.65 m	4
Las Viñas	8.10 m	8.10 m	8.10 m	1
Loma de la Torre	5.20 m	5.20 m	5.20 m	1
La Gabiarra	6.04 m	3.70 m	10.00 m	20
Llano de Carrascosa	6.10 m	5.80 m	6.40 m	2
Torreçilla	5.10 m	5.10 m	5.10 m	1
El Baúl	5.96 m	5.00 m	7.35 m	4
Llano de la Carrascosa	-	-	-	-
Llano del Carrascal	-	-	-	-

TOMB SIZE DATA FOR COPPER AGE CEMETERIES IN SOUTH-EAST SPAIN

Cemetery	Average Tomb Size	Minimum Tomb Size	Maximum Tomb Size	No. of Tombs with Data
Cejo de las Cabrerizas	-	-	-	-
Las Angosturas	-	-	-	-
Las Torreçillas	2.80 m	2.80 m	2.80 m	1
Llano de las Torreçillas	5.60 m	5.60 m	5.60 m	1
Llano de las Viñas	-	-	-	-
Loma de las Viñas	5.10 m	5.10 m	5.10 m	1
Fileta de la Zorra	3.43 m	3.43 m	3.43 m	1
Pantano de los Bermejales	6.92 m	3.40 m	9.95 m	3
Líñan Fara	5.75 m	5.75 m	5.75 m	1
Navilla	5.78 m	2.80 m	8.75 m	2
Cortija del Cura	3.73 m	2.89 m	4.70 m	3
Cruz del Tío Cogollero	5.11 m	2.20 m	7.90 m	7
Loma del Nacairo	-	-	-	-
Loma de la Manga	6.67 m	5.00 m	10.00 m	3
Loma del Aspador	-	-	-	-
Loma de los Peralicos	-	-	-	-
Los Llanillos	4.38 m	3.70 m	5.60 m	5

TOMB SIZE DATA FOR COPPER AGE CEMETERIES IN SOUTH-EAST SPAIN

Cemetery	Average Tomb Size	Minimum Tomb Size	Maximum Tomb Size	No. of Tombs with Data
Llano de la Teja	4.33 m	3.20 m	8.10 m	11
Loma de los Alamos Negros	-	-	-	-
Puntal de Alamos Negros	3.40 m	3.40 m	3.40 m	1
Los Eriales	5.61 m	3.50 m	11.95 m	15
Las Peñuelas	5.21 m	2.90 m	6.70 m	7
La Fonseca	-	-	-	-
La Campana	4.97 m	4.10 m	6.40 m	11
Pedro Martínez/Cañada del Aguila	4.93 m	4.55 m	5.30 m	4
Las Peñicas	5.87 m	4.00 m	7.30 m	3
Hoya de los Madrigueros	4.65 m	4.40 m	4.90 m	2
Hazas de la Coscoja	5.35 m	4.70 m	6.00 m	2
Meseta del Mudo	5.45 m	5.40 m	5.50 m	2
Montefrío	4.89 m	3.65 m	6.95 m	8
Maratones	4.05 m	4.05 m	4.05 m	1
Loma de los Pardos	2.60 m	2.60 m	2.60 m	1
Cerro de la Torre	-	-	-	-
Piedras de Canjajar	-	-	-	-

TOMB SIZE DATA FOR COPPER AGE CEMETERIES IN SOUTH-EAST SPAIN

Cemetery	Average Tomb Size	Minimum Tomb Size	Maximum Tomb Size	No. of Tombs with Data
● Loma del Mojón	4.20 m	4.20 m	4.20 m	1
● Loma de Galera	4.33 m	3.00 m	5.98 m	5
● Llano de los Frailes	3.45 m	3.45 m	3.45 m	1
● Huéchar Alhama	5.07 m	3.40 m	8.10 m	12
● Alizaraque	7.98 m	5.20 m	10.75 m	2
● Cabezo de la Fernera	3.30 m	3.30 m	3.30 m	1
● Fuente del Lobo	2.55 m	2.55 m	2.55 m	1
● Llanos Colorados	2.80 m	2.80 m	2.80 m	1
● Cabezo del Moro	2.10 m	2.10 m	2.10 m	1
● Loma de Rutilla	2.30 m	2.30 m	2.30 m	1
● El Ajasar	3.05 m	3.05 m	3.05 m	1
● Curenina	4.50 m	4.50 m	4.50 m	1
● Cabecito de Aguilar	14.43 m	14.43 m	14.43 m	1
Loa Ruriales	3.10 m	3.10 m	3.10 m	1
Loma de los Planes	3.20 m	3.00 m	3.60 m	3
Cuesta del Río	2.95 m	2.80 m	3.10 m	2
Las Balsicas	3.00 m	2.30 m	3.70 m	2

TOMB SIZE DATA FOR COPPER AGE CEMETERIES IN SOUTH-EAST SPAIN

Cemetery	Average Tomb Size	Minimum Tomb Size	Maximum Tomb Size	No. of Tombs with Data
Llano del Barranco Hondo	3.93 m	3.50 m	4.30 m	3
Los Gallardos	2.00 m	2.00 m	2.00 m	1
Cañada de los Callados	2.00 m	2.00 m	2.00 m	1
El Si	6.00 m	6.00 m	6.00 m	1
El Rincón	2.60 m	2.60 m	2.60 m	1
Loma del Cucador	3.79 m	2.60 m	8.24 m	5
Cabezo de la Copa	3.40 m	3.40 m	3.40 m	1
Loma de Alanzora	4.20 m	4.00 m	4.40 m	2
Loma de la Torre	2.70 m	2.40 m	3.00 m	2
Loma de Aguilas	3.00 m	3.00 m	3.00 m	1
Loma de la Suerte	3.00 m	3.00 m	3.00 m	1
Loma de las Canteras	2.60 m	2.60 m	2.60 m	1
Cabezo de Alanzora	2.95 m	2.95 m	2.95 m	1
Loma de Agrasarón	-	-	-	-
● La Zajara	1.90 m	1.90 m	1.90 m	1
● Barranco Hondo	2.30 m	2.30 m	2.30 m	1
● Ballbona	1.20 m	1.20 m	1.20 m	2

TOMB SIZE DATA FOR COPPER AGE CEMETERIES IN SOUTH-EAST SPAIN

Cemetery	Average Tomb Size	Minimum Tomb Size	Maximum Tomb Size	No. of Tombs with Data
● Campos	-	-	-	-
Llano de la Media Legoa	8.80 m	8.80 m	8.80 m	1
● Los Millares	9.76 m	2.40 m	16.10 m	82
● Loma de la Rambla de Huéchar	14.00 m	14.00 m	14.00 m	1
● Loma de Castillejo	5.39 m	5.39 m	5.39 m	1
● Rambla de Huéchar	4.00 m	4.00 m	4.00 m	1
● Loma de Belmonte	15.00 m	15.00 m	15.00 m	1
● Los Cabecicos	2.75 m	2.50 m	3.00 m	2
● Overa	1.95 m	1.90 m	2.00 m	2
● Loma del Alcanzón	3.20 m	2.40 m	4.00 m	2
● Loma del Campo de Mojácar	10.87 m	5.00 m	14.60 m	3
● Llano Manzano	4.10 m	4.10 m	4.10 m	1
● Pueblo de D. Jadrio	8.25 m	8.25 m	8.25 m	1
● Cañada Flores	7.00 m	7.00 m	7.00 m	1
● Loma del Cabezo de la Mata	3.10 m	3.10 m	3.10 m	1
● Caldero de Mojácar	4.50 m	4.50	4.50 m	1
● Las Peñicas	11.40 m	8.80 m	14.00 m	3

TOMB SIZE DATA FOR COPPER AGE CEMETERIES IN SOUTH-EAST SPAIN

Cemetery	Average Tomb Size	Minimum Tomb Size	Maximum Tomb Size	No. of Tombs with Data
Rambla de la Tejera	7.09 m	2.40 m	12.60 m	5
El Barranquete	9.12 m	7.00 m	10.50 m	10
El Chucho	-	-	-	-
Las Hortichuelas	-	-	-	-
Loma de la Atalaya	4.93 m	2.00 m	11.00 m	12
Llano de la Atalaya	6.65 m	6.60 m	6.70 m	2
Loma del Plantonal	8.01 m	8.01 m	8.01 m	1
La Lampara	5.20 m	3.00 m	7.60 m	3
Loma de Jocala	4.40 m	4.40 m	4.40 m	1
Barranco de Jocala	6.50 m	6.00	7.00 m	2
Buena Arena	6.28 m	6.28 m	6.28 m	1
El Jautón	7.86 m	4.00 m	12.40 m	7
Las Churuletas	6.04 m	2.00 m	10.64 m	6
Los Arejos	6.90 m	6.90 m	6.90 m	1
Rambla de la Sierra Vermeja	-	-	-	-
Rambla de los Mudos/Loma de los Rincones	5.00 m	5.00 m	5.00 m	1
El Marchal	2.00 m	2.00 m	2.00 m	1

TOMB SIZE DATA FOR COPPER AGE CEMETERIES IN SOUTH-EAST SPAIN

Cemetery	Average Tomb Size	Minimum Tomb Size	Maximum Tomb Size	No. of Tombs with Data
Llano de la Rueda	3.10 m	2.40 m	3.90 m	3
Rambla de los Pilares	2.00 m	2.00 m	2.00 m	3
Loma del Llano de las Eras	11.20 m	11.20 m	11.20 m	1
Loma de los Lintales	-	-	-	-
Rambla de los Pozicos	11.00 m	11.00 m	11.00 m	1
Llano del Juncal	10.00 m	10.00 m	10.00 m	1
Los Ruriallos	9.05 m	8.00 m	9.60 m	3
Cañada de los Meones	-	-	-	-
Posos de los Marchantillos	-	-	-	-
Rambla de las Piedras	-	-	-	-
Rambla de los Pilares	-	-	-	-
Unnamed	-	-	-	-
Loma del Boticario	-	-	-	-
Loma de la Casa Alta	-	-	-	-
Las Alparatas	4.00 m	4.00 m	4.00 m	1
Loma de las Albulucas	2.80 m	2.80 m	2.80 m	1
Cueva del Barranco del Mahoma	-	-	-	-

TOMB SIZE DATA FOR COPPER AGE CEMETERIES IN SOUTH-EAST SPAIN

Cemetery	Average Tomb Size	Minimum Tomb Size	Maximum Tomb Size	No. of Tombs with Data
El Alanillo/Cañada de la Menería	-	-	-	-
Loma del Jas	5.00 m	5.00 m	5.00 m	1
Loma Blanca	3.60 m	2.80 m	4.00 m	3
Cerro de la Alquería	2.10 m	2.10 m	2.10 m	1
Sierra de la Alquería	2.57 m	2.20 m	3.00 m	3
● Loma de los Caporchanes	-	-	-	-
● Rambla de Jativa	4.00 m	4.00 m	4.00 m	1
● Loma de la Gorriquia	6.00 m	6.00 m	6.00 m	1
● Cañada de Muro	10.00 m	10.00 m	10.00 m	1
● Puerto Blanco	-	-	-	-
● Palacés	4.98 m	4.90 m	5.00 m	4
● Loma de los Palstones	-	-	-	-
● Cueva de la Jabonera	-	-	-	-
● Cueva de la Tazona	-	-	-	-
● Piedras de Vergara	-	-	-	-
● Sierra del Cano	-	-	-	-
El Charcón	10.05 m	10.05 m	10.05 m	1

● = Site in area with less than 300mm of rainfall annually

TOMB SIZE DATA FOR COPPER AGE CEMETERIES IN SOUTH-EAST SPAIN

Cemetery	Average Tomb Size	Minimum Tomb Size	Maximum Tomb Size	No. of Tombs with Data
El Alamillo/Cañada de la Menería	-	-	-	-
Loma del Jas	5.00 m	5.00 m	5.00 m	1
Loma Blanca	3.60 m	2.80 m	4.00 m	3
Cerro de la Alquería	2.10 m	2.10 m	2.10 m	1
Sierra de la Alquería	2.57 m	2.20 m	3.00 m	3
● Loma de los Caporchanes	-	-	-	-
● Rambla de Jativa	4.00 m	4.00 m	4.00 m	1
● Loma de la Gorriquia	6.00 m	6.00 m	6.00 m	1
● Cañada de Muro	10.00 m	10.00 m	10.00 m	1
● Puerto Blanco	-	-	-	-
● Palacés	4.98 m	4.90 m	5.00 m	4
● Loma de los Paletones	-	-	-	-
● Cueva de la Jabonera	-	-	-	-
● Cueva de la Tazona	-	-	-	-
● Piedras de Vergara	-	-	-	-
● Sierra del Cano	-	-	-	-
El Charcón	10.05 m	10.05 m	10.05 m	1

● = Site in area with less than 300 mm of rainfall annually

PRESENCE/ABSENCE OF EXTERNAL TOMB FEATURES FROM COPPER AGE CEMETERIES IN SOUTH-EAST SPAIN

Cemetery												No. of Tombs
	Forecourt	Paved Forecourt	Blocked Forecourt	Flanking Stones or Stone Pylons	Stone Rows or Stone Circles	Stone Avenues	Baetyls	Attached Baetyl Enclosure	Detached Baetyl Enclosure	Detached/Attached External Enclosure (w/o baetyls)	Ritual Deposits (e.g. of frag. pottery) in Forecourt	
● Loma de la Casa Alta												1
● Las Alparatas												2
● Loma de las Albulucas												1
● Cueva del Barranco del Mahoma												1
El Alamillo/Cañada de la Menería												1
Loma del Jas												1
Loma Blanca												3
Cerro de la Alquería												1
Sierra de la Alquería												3
● Loma de los Caporchanes												1
● Rambla de Jativa												1

PRESENCE/ABSENCE OF EXTERNAL TOMB FEATURES FROM COPPER AGE CEMETERIES IN SOUTH-EAST SPAIN

Cemetery												No. of Tombs
	Forecourt	Paved Forecourt	Blocked Forecourt	Flanking Stones or Stone Pylons	Stone Rows or Stone Circles	Stone Avenues	Baetyls	Attached Baetyl Enclosure	Detached Baetyl Enclosure	Detached Enclosure (w/o baetyls)	Ritual Deposits (e.g. of frag. pottery) in Forecourt	
● Loma de la Gorriquia												1
● Canada de Muro												1
● Puerto Blanco												1
● Palacés												4
● Loma de los Paletones												1
● Cueva de la Jabonera												1
● Cueva de la Tazona												1
● Piedras de Vergara												1
● Sierra del Cano												1
El Charcón												1

● = Site in area with less than 300mm of rainfall annually

INVENTORY OF BRONZE AGE CEMETERIES

● (1)	Las Laderas del Castillo (Callosa de Segura, Alicante)	(Fúrgus 1909) (Lull 1983)
● (2)	Cañada Alba (Puerto Lumbreras, Murcia)	(Alcacer Grau 1972)
● (3)	Cerro de la Cruz (Puerto Lumbreras, Murcia)	(Beltrán and Jorda 1951)
(4)	La Almoloya (Pliego, Murcia)	(Cuadrado Díaz 1944-1945)
● (5)	El Rincon (Almendricos, Murcia)	(García del Toro and Ayala Juan 1978)
● (6)	La Alcanara (Purias, Murcia)	(Ayala Juan 1977-1978)
● (7)	La Bastida (Totana, Murcia)	(Santa Olalla et. al. 1947; Ruiz Argiles 1948) (Ruiz Argiles and Posac Mon 1954-1955)
● (8)	Puntarrón Chico (Beniján, Murcia)	(García Sandoval et. al. 1962) (García Sandoval 1962)
● (9)	Rambla de las Ruices (Mazarrón, Murcia)	(Leisner and Leisner 1943)
● (10)	Ifre (Mazarrón, Murcia)	(Siret and Siret 1887)
● (11)	Zapata (Lorca, Murcia)	" "
(12)	Cabezo de las Viñas (Cov, Murcia)	(Ayala Juan 1979)
(13)	Unknown (Province of Granada)	(Alcacer Grau 1972)
(14)	Cuesta del Negro (Purullena, Granada)	(Molnia González and Pareja Lopez 1975)
(15)	Alhama (Alhama de Granada, Granada)	(Navarrete Enciso and Carrasco Rus 1979)
(16)	Jeres del Marquesado (Jeres del Marquesado, Granada)	(Mendoza and Pareja 1975)
(17)	Repecho de la Tinajilla (Lentegí, Granada)	(Millan 1936-1940)
(18)	Cerro de la Encina (Monachil, Granada)	(Cabré Aguiló 1922; Torre Peña and Saez Perez 1975) (Molnia González and Roldán Hervás 1983)
(19)	Alquife (Alquife, Granada)	(Arribas et. al. 1964-1965)
(20)	Cerro del Culantrillo (Gorafe, Granada)	(García Sánchez 1963)
(21)	Pago del Sapo (Almuñecar, Granada)	(Pellicer Catalán 1964)
(22)	La Dehesilla (Bracana, Granada)	(Pellicer Catalán 1964)
(23)	Ubeda la Vieja (Ubeda, Jaén)	(Molnia González et. al. 1978)
(24)	Villalobos (Alcala la Real, Jaén)	(Torre Peña and Aguayo de Hoyos 1979)
(25)	Casería de Utrilla (Alcala la Real, Jaén)	(Torre Peña and Aguayo de Hoyos 1979)
(26)	Alcalá la Real (Alcalá la Real, Jaén)	(Torre Peña and Aguayo de Hoyos 1979)

(27)	Hornos de Segura (Hornos de Segura, Jaén)	(Maluquer de Motes 1974)
(28)	Ubeda (Ubeda, Jaén)	(Vaño Silvestre 1962)
(29)	El Argar (Antas, Almería)	(Siret and Siret 1887) (Ruiz Galvez 1977)
● (30)	La Pernerá (Antas, Almería)	(Siret and Siret 1887)
● (31)	Fuente Vermeja (Antas, Almería)	(Siret and Siret 1887)
● (32)	Lugarico Viejo (Antas, Almería)	(Siret and Siret 1887)
● (33)	Gatas (Turra, Almería)	(Siret and Siret 1887)
(34)	Hueco de Don Gonzalo (Gérgal, Almería)	(Siret and Siret 1887)
● (35)	Cerro del Fuerte (Fechina, Almería)	(Siret and Siret 1887)
● (36)	Cerro del Boquete (Rioja, Almería)	(Schubart 1980)
● (37)	Cerro del Rayo (Rioja, Almería)	(Schubart 1980)
● (38)	Llano de los Friales (Alhama de Almería, Almería)	(Leisner and Leisner 1943)
(39)	El Egido (El Egido, Almería)	(Arribas 1952)
● (40)	El Oficio (Cuevas del Almanzora, Almería)	(Siret and Siret 1887)
● (41)	Fuente Alamo (Cuevas del Almanzora, Almería)	(Siret and Siret 1887) (Arteaga and Schubart 1981)
(42)	Vélez Blanco (Vélez Blanco, Almería)	(Alcacer Grau 1972)
(43)	El Picacho (Oria, Almería)	(Hernández Hernández and Dug Godoy 1975)

● = Site in area with less than 300mm of rainfall annually

PRESENCE/ABSENCE OF SELECTED RAW MATERIALS AND ARTEFACT TYPES IN ARGARIC CEMETERIES IN SOUTH-EAST SPAIN

Cemetery	Flint Dagger	Decorated Pottery	Decorated Stone Plaques	Decorated Bone Idols	Decorated Stone Vessels	Beakers/Beaker Decoration	Polished Stone	Ground Stone	Cypsum	Asbestos	Talc	Alabaster	Ivory	Jet	Amber	Ostrich Eggshell	Crab Claw	Horn	Copper/Bronze	Silver	Gold	Animal Teeth	Antler	Vitreous Paste	Fruit Stone	Bird Beak	No. of Tombs
Ubeda la Vieja																											1
Villalobos																											1
Caseria de Utrilla																											1
Alcalá la Real																											1
Hornos de Segura																											7
Ubeda																											4
El Argar																											1074
● La Pernerá																											4
● Fuente Vermeja																											3
● Lugarico Viejo																											4
● Gatas																											18

PRESENCE/ABSENCE OF SELECTED RAW MATERIALS AND ARTEFACT TYPES IN ARGARIC CEMETERIES IN SOUTH-EAST SPAIN

Cemetery	Flint Dagger	Decorated Pottery	Decorated Stone Plaques	Decorated Bone Idols	Decorated Stone Vessels	Beakers/Beaker Decoration	Polished Stone	Ground Stone	Cypsum	Asbestos	Talc	Alabaster	Ivory	Jet	Amber	Ostrich Eggshell	Crab Claw	Horn	Copper/Bronze	Silver	Gold	Animal Teeth	Antler	Vitreous Paste	Fruit Stone	Bird Beak	No. of Tombs
Hueco de Don Gonzalo																											1
● Cerro del Fuerte																											1
● Cerro del Boquete																											1
● Cerro del Rayo																											2
● Llano de los Friales																											1
El Egido																											1
● El Oficio																											13
● Fuente Alamo																											65
Velez Blanco																											1
El Picacho																											13

● = Site in area with less than 300mm of rainfall annually

COMPARISON OF RAW MATERIAL TYPES FROM COPPER AGE AND BRONZE AGE TOMBS IN SOUTH-EAST SPAIN

Material	Copper Age		Bronze Age		Ratio of Copper Age/Bronze Age
	No. of Tombs with Material Present	No. of Objects	No. of Tombs with Material Present	No. of Objects	
Shell Objects (excluding beads)	153 (20.48%)	623	11 (0.76%)	17	37:1
Bone Objects (excluding beads)	183 (24.51%)	565	14 (0.97%)	14	40:1
Ivory Objects (all types)	13 (1.74%)	31	28 (1.95%)	105	1:3
Ivory Objects (beads & buttons)	7 (0.94%)	18	28 (1.95%)	104	1:6
Ivory Objects (excluding beads & buttons)	10 (1.34%)	13	1 (1.07%)	1	13:1
Amber Objects (all types)	6 (0.80%)	8	0 (-)	0	8:1
Ostrich Eggshell Objects (all types)	2 (0.27%)	821	0 (-)	0	821:1
Animal Teeth Objects (all types)	23 (3.08%)	23	22 (1.95%)	48	1:2
Metal Objects (all types)	166 (22.22%)	172	580 (40.33%)	1823	1:11
Gold Objects (all types)	2 (0.27%)	3	7 (0.49%)	9	1:3

COMPARISON OF RAW MATERIAL TYPES FROM COPPER AGE AND BRONZE AGE TOMBS IN SOUTH-EAST SPAIN (Continued)

Material	Copper Age		Bronze Age		Ratio of Copper Age/Bronze Age Objects
	No. of Tomb with Material Present	No. of Objects	No. of Tombs with Material Present	No. of Objects	
Silver Objects ⁺ (all types)	4 (0.54%)	6	164 (11.40%)	365	1:61
Copper/Bronze ⁺⁺ Objects (all types)	166 (22.22%)	475	577 (38.73%)	1449	1:3
Polished & Unpolished Stone Objects (excluding beads)	387 (51.81%)	2894	20 (1.39%)	29	100:1
Polished & Unpolished Stone Objects (excluding beads and flint)	166 (22.22%)	467	16 (1.11%)	22	21:1
Polished Stone Objects (excluding beads)	96 (12.85%)	264	3 (0.21%)	7	346:1
Unpolished Stone Objects (excluding beads)	370 (49.53%)	203	18 (1.25%)	18	11:1
Flint Objects (all types)	348 (46.59%)	2427	6 (0.42%)	7	346:1

⁺ All of the silver artefacts from Copper Age tombs are associated with secondary Argaric interments

⁺⁺ Some of the copper/bronze artefacts included in the Copper Age total are associated with secondary Argaric burials

SELECTED PRESTIGE MATERIALS FOR VARIOUS ARGARIC CEMETERIES; AVERAGE NUMBER OF OBJECTS PER TOMB¹

Site	No. of Tombs	Copper/Bronze	Silver	Gold	Metal ²	Ivory
El Argar	(1034)	1.16	0.25	0.0002	1.41	0.05
La Bastida	(117)	0.34	0.08	-	0.43	0.01
Fuente Alamo	(65)	0.66	0.45	0.03	1.14	0.01
Zapata	(38)	0.34	0.34	-	0.68	-
Puntarron Chico	(30)	0.27	0.13	-	0.40	-
El Oficio	(13)	2.31	1.84	0.23	4.38	-
Cerro de la Encina	(6)	1.33	0.83	0.17	2.33	-
Las Laderas del Castillo	(2)	1.50	5.00	1.00	7.50	32.50

¹ Based on a calculation of the total number of objects in the cemetery divided by the number of tombs in the cemetery.

² Combined totals of copper/bronze, silver and gold.

SELECTED PRESTIGE MATERIALS FOR VARIOUS ARGARIC CEMETERIES; NUMBER OF TOMBS (AND PERCENTAGE OF TOMBS) IN EACH CEMETERY WITH MATERIAL PRESENT

Site	No. of Tombs	Copper/Bronze	Silver	Gold	Metal ¹	Ivory
El Argar	(1034)	417 (43.23%)	120 (11.60%)	2 (0.19%)	469 (45.36%)	49 (4.74%)
La Bastida	(117)	20 (17.09%)	7 (5.98%)	0 (-)	22 (18.80%)	1 (0.85%)
Fuente Alamo	(65)	21 (32.30%)	7 (10.77%)	2 (3.08%)	21 (32.30%)	1 (1.54%)
Zapata	(38)	8 (6.84%)	6 (5.12%)	0 (-)	12 (10.26%)	0 (-)
Puntarron Chico	(30)	5 (20.00%)	2 (6.67%)	0 (-)	5 (20.00%)	0 (-)
El Oficio	(13)	10 (76.92%)	9 (69.23%)	2 (15.38%)	12 (93.30%)	0 (-)
Cerro de la Encina	(6)	4 (66.67%)	3 (50.00%)	1 (16.67%)	4 (66.67%)	0 (-)
Las Laderas del Castillo	(2)	2 (100.00%)	2 (100.00%)	1 (50.00%)	2 (100.00%)	1 (50.00%)

¹ Combined totals of copper/bronze, silver and gold.

SELECTED PRESTIGE MATERIALS FOR VARIOUS ARGARIC CEMETERIES: TOTAL NUMBER OF OBJECTS IN EACH CEMETERY

Site	No. of Tombs	Copper/Bronze	Silver	Gold	Metal ¹	Ivory
El Argar	(1034)	1197	258	2	1457	49
La Bastida	(117)	40	10	0	50	1
Fuente Alamo	(65)	43	29	2	74	1
Zapata	(38)	13	13	0	26	0
Puntarron Chico	(30)	8	4	0	12	0
El Oficio	(13)	30	24	3	57	0
Cerro de la Encina	(6)	8	5	1	14	0
Las Laderas del Castillo	(2)	3	10	2	15	65

¹ Combined totals of copper/bronze, silver and gold.

COMPARISON OF THE TOTAL WEIGHT OF VARIOUS METALS FROM EL ARGAR, EL OFICIO AND FUENTE ALAMO

EL ARGAR				EL OFICIO				FUENTE ALAMO				
	Total No. of Objects	Total Weight	Weight/ Object		Total No. of Objects	Total Weight	Weight/ Object		Total No. of Objects	Total Weight	Weight/ Object	
Cu	961	27,525 gm	28.64 gm	Cu	267	5,689 gm	21.31 gm	¹	Cu	1280	36,500 gm	28.51 gm
Br	494	7,885 gm	15.96 gm	Br					Br	625	10,700 gm	17.12 gm
Ag	320	1,920 gm	6.00 gm	Ag	42	333 gm	7.99 gm		Ag	420	2,500 gm	5.95 gm
Au	6	13 gm	2.16 gm	Au	2	9 gm	4.55 gm		Au	10	138 gm	13.80 gm
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	Total Weight		Ratio		Total Weight		Ratio		Total Weight		Ratio	
Cu	34,611 gm		1	Cu	5,540 gm		1		Cu	46,200 gm		1
Br	1,920 gm		18	Br	333 gm		17		Br	2,500 gm		18
Ag	799 gm		43	Ag	149 gm		37		Ag	1,000 gm		46
Au	13 gm		2662	Au	9 gm		616		Au	138 gm		335

(Source: Siret and Siret 1887: 409-413)

¹ Separate totals for copper and bronze objects were not given for this site

