

Corpus Mensurarum

Unless otherwise stated in the relevant chapter, the azimuths in these tables were measured with a magnetic compass, and then corrected for the magnetic variation appropriate to the place and date, and for the known error in the construction of the compass. Where an azimuth is followed by the letter 'c' (for *circa*), this indicates a measure of low precision, usually because of the condition of the monument but occasionally because of the risk of magnetic anomaly in the rock.

The angular altitude of the skyline was normally measured with a handheld clinometer. In cases where the datum on altitude is unavailable (either because we were hampered by bad weather or restricted visibility, or because the orientation was measured by another investigator), a typical value has been assumed for the calculation of declination, and this is stated in the table.

Latitudes are given only to the nearest tenth of a degree, because this accuracy is more than sufficient for our purposes. Declinations have been calculated with the computer program kindly supplied by Clive Ruggles (see his Web site <http://www.le.ac.uk/archaeology/rug/>), and this resulted in a huge saving of labour and, no doubt, the avoidance of many arithmetical errors.

Chapter 3. The Temples of Malta and Gozo

3.1. Orientations of the principal axes of the temples of Malta and Gozo.

Az. °	Alt. °	Lat. °	Dec. °	Temple/Phase	Az. °	Alt. °	Lat. °	Dec. °	Temple/Phase
92.7	3.7	35.8	-0.1	Mnajdra I (Early Tarxien)	168.5	2.5	35.9	-50.4	Skorba II (Ggantija)
125.5	1.0	36.1	-27.6	Ggantija I (Ggantija)	168.5	0.6	35.9	-52.4	Tarxien IV (Ggantija)
129.0	-0.4	35.8	-31.4	Hagar Qim I (Ggantija)	186.0	-0.4	35.8	-54.8	Hagar Qim II (Tarxien)
131.0	3.4	35.9	-29.9	Ta' Hagrat (Ggantija)	193.5	1.3	36.0	-51.0	Bugibba (Tarxien)
134.5	1.0	36.1	-34.1	Ggantija II (Ggantija)	198.0	0.7	35.9	-50.2	Tarxien III (Early Tarxien)
138.0c	2.3	35.9	-35.5	Skorba I (Ggantija)	201.0	0.7	35.9	-48.9	Tarxien I (Early Tarxien)
138.5	-0.3	35.8	-38.1	Mnajdra II (Tarxien)	204.0	-0.3	35.8	-48.6	Mnajdra III (Ggantija)
149.6	0.7	35.9	-44.1	Kordin (Ggantija)					

Chapter 4. The Sanctuaries of Menorca and Mallorca

4.1. Orientations of 25 taula sanctuaries of Menorca.

Az. °	Alt. °	Lat. °	Dec. °	Sanctuary	Az. °	Alt. °	Lat. °	Dec. °	Sanctuary
<i>Southern taulas</i>									
110	0	39.9	-16	Torralba d'en Salort	183	0	39.9	-50½	Binimaimut
143	0	40.0	-38½	Torre Trencada	184	0	39.9	-50½	Trepucó
155	0	39.9	-44½	Talati de Dalt	184	0	39.9	-50½	Sonacasana (east)
164	0	40.0	-48	So N'Olivaret Nou	186c	0	39.9	-50½	Sonacasana (west)
165c	0	40.0	-48½	Es Tudons	188	0	39.9	-50	Cotaina
166	0	40.0	-48½	Bella Ventura	190	0	39.9	-49½	Torralbec Vell
171	0	39.9	-50	Torre Llisa Vell	193c	0	40.0	-49	So N'Angladó
173	0	40.0	-50	Torre Llafuda (west)	200	0	40.0	-46½	Son Catlar
177	0	40.0	-50½	Binimassó	202	0	39.9	-46	Biniac
178	0	39.9	-50½	Binicodrell Nou	210c	0	39.9	-42	Torre d'en Gaumes
180c	0	39.9	-50½	Binissafullet Nou	<i>Northern taulas</i>				Sa Torreta
180c	0	40.0	-50½	Torre Llafuda (east)	125	0	40.0	-26½	
180c	0	39.9	-50½	Son Rotger	176	1½	40.0	-48½	Algairens

4.2. Orientations of 15 talayotic sanctuaries of Mallorca.

Az. °	Alt. °	Lat. °	Dec. °	Sanctuary	Az. °	Alt. °	Lat. °	Dec. °	Sanctuary
121	*	39.7	-21½	Son Marí	168	*	39.4	-46	Capocorb d'en Jaquetó 4
147	-0½	39.4	-41½	Es Pedregar 1	168	*	39.5	-46	Es Fornets
148	*	39.4	-38½	Capocorb Vell	188	*	39.4	-47	Capocorb d'en Jaquetó 5
154	0	39.4	-44½	Capocorb d'en Jaquetó 2	195	*	39.8	-45½	Almallutx 2
158	*	39.4	-43	Capocorb d'en Jaquetó 1	198	*	39.8	-44½	Almallutx 1
158	*	39.4	-43	Capocorb d'en Jaquetó 3	213	*	39.4	-38	Tabaies de'n Clar
160	14	39.8	-33½	Son Mas	228	*	40.0	-29	Ses Arenes de Formentor
163	*	39.3	-45	Ets Antigors					

*Horizon altitude not available; assumed to be 3° for calculation of declination.

Chapter 5. Tombs of South Iberia

5.1. Orientations of 48 tholoi and related tombs at Los Millares (lat. 37.0°).

Az. °	Alt. °	Dec. °	Tomb	Az. °	Alt. °	Dec. °	Tomb	Az. °	Alt. °	Dec. °	Tomb
62	1	+22½	36	95	2½	-2½	65	111	-0½	-17½	39
65	1	+20	68*	96	2	-4	8	111	0	-17	50
72c	2½	+15½	69	96	1½	-4	13*	112c	-0½	-18	51
76	4	+13½	11	96	1½	-4	34*	113	-0½	-19	22
82	4	+8½	10	98	1½	-5½	52	114c	-0½	-19½	15
83	4	+8	14	99	1½	-6½	28	114	-0½	-19½	26
86	3	+5	3	99	1½	-6½	41	116	-0½	-21½	7
87	3	+4	54	99c	1½	-6½	57	116	-0½	-21½	17
87c	3	+4	55	101	1	-8½	40	117	-0½	-22	27
89c	3	+2½	46	101	1	-8½	47	117	-0½	-22	29
89c	3	+2½	61	101	1	-8½	53	127c	-0½	-29½	9
89	3	+2½	71	104c	0½	-11	16	137	0	-36	48*
90	3	+1½	73	107	0	-14	25	146	0½	-41½	35*
92	2½	-0½	12	107	0	-14	67*	150	0½	-44	21*
94	2	-2	1	109c	0	-15½	60	212	4	-39½	30
95	2	-3	20	110c	-0½	-16½	62	216	4	-37	31

Tombs in too poor a state to be measured but with 'typical' orientations: 2, 4, 5, 6, 18, 19, 32, 42, 43, 49, 56, 66, 70, 72, 74, 75, 77, 78.

*Passage measured.

Numbers 1–56 according to M. Amalga and A. Arribas, *El poblado y la necrópolis megalíticos de Los Millares* (Bibliotheca Praehistorica Hispana, iii; Madrid, 1963).

5.2. Orientations of 41 megalithic sepulchres at Alhama de Almería (lat. 37.0°), author's numbering.

Az. °	Alt. °	Dec. °	Tomb	Az. °	Alt. °	Dec. °	Tomb	Az. °	Alt. °	Dec. °	Tomb				
<i>Upper site</i>															
97	-0½	-6	1	140	2	-36½	15	107	-0½	-14½	28				
104	-0½	-12	2	140	2	-36½	16	107	-0½	-14½	29				
107	-0½	-14½	3	142c	2	-37½	17	110c	-0½	-16½	30				
109	-0½	-16	4	146	2	-40	18	111	-0½	-16½	31				
113	-0½	-19	5	147c	2	-40½	19	114c	0	-19½	32				
115/124	-0½/0	-20½/-27	6	150	2½	-42	20	117c	0	-21½	33				
116	-0½	-21	7	152c	2	-43½	21	117c	0	-21½	34				
122	0	-25½	8	158	1½	-47	22	122/141	0/3	-25½/-36½	35				
122c	-0½	-26	9	<i>Lower site</i>											
125	0	-27½	10	76	3	+13	23	125	0½	-27½	37				
129	0	-30½	11	79	2½	+10	24	126	0½	-28	38				
129	0	-30½	12	88	2	+2½	25	130	0½	-31	39				
135	2½	-32½	13	95/121	0/0	-4½/-24½	26	131c	0	-31	40				
139	1	-36½	14	99	-0½	-8	27	132	0	-32½	41				

Tombs 6, 26 and 35 have chambers whose sides are not orthogonal to the backstone but are slewed to the right (see text).

5.3. Orientations of 10 tholoi at Barranquete (lat. 36.8°).

Az. °	Alt. °	Dec. °	Tomb	Az. °	Alt. °	Dec. °	Tomb
95c	1½	-3½	7	127	0½	-28½	2
104	1	-11	9	128	0½	-29½	3
107	1	-13	4	130	1	-30½	11
117	0½	-21½	8	134c	1	-33½	6
124c	0½	-26½	1	147?	1½	-41	5

Numbers according to Ma. J. Amalio Gorbea, *El poblado y la necrópolis de El Barranquete (Acta Arqueológica Hispánica, vi; Madrid, 1973)*.

 5.4. Orientations of 79 megalithic sepulchres near the Río Gor (lat. 37.5°), and of the related Dolmen de Bagil, Moratalla, Murcia (lat. 38.2°).

Az. °	Alt. °	Dec. °	Tomb	Az. °	Alt. °	Dec. °	Tomb	Az. °	Alt. °	Dec. °	Tomb
<i>East edge of plateau</i>											
119	3	-21	112	109	1½	-14½	158	67	1½	+19	69
120	3	-21½	110	114	2½	-17½	58	81	2½	+8½	85
130	1½	-30	113	115	2½	-18	55	87	1	+3	20
135c	2	-33	104/5	116	2½	-19	29	87	2½	+3½	72
138	2	-35	111	116c	2½	-19	157	92	2½	0	73
147	1½	-41	102	120	2½	-22	31	95c	2	-21	78
147c	1½	-41	106	121	2½	-22½	82	97	5½	-2½	128
147	1½	-41	119	122	2½	-23½	33	101	2½	-7½	66
148	1½	-41½	114	122	3	-23	42	106	4½	-10	19
148	1½	-41½	117	122	2½	-23½	145	107c	2	-12½	74
155	1½	-45	109	124	2½	-25	22	110c	2	-14½	75
161	2	-47	108	126	2½	-26½	21	111	5	-13½	43
161	2	-47	120/1	126	2½	-26½	150	111	2	-15½	71
167	1½	-49½	116	135	1½	-33½	23	113c	2	-17	76
				135	1½	-33½	61	117	3	-19½	68
<i>East slope of valley</i>											
140	13	-27	134	135	1½	-33½	149	119c	2	-21½	16
148	8½	-35	135	138	1½	-35½	146	121c	3½	-22	15
154	14	-33	138	140	2	-36	27	123	8	-20	14
159c	10½	-38	140	140	1½	-36½	154	134	3	-31½	86
165	4½	-46	132	141c	1½	-37	148	140	6	-33	17
171	4	-48	137	142	1½	-38	32	140	6	-33	18
171c	3	-49	141	143	2	-38	24	142	6½	-33½	129
177	2	-50½	133	143	1½	-38½	163	144	7½	-34	70
177	18	-34½	142	147c	1½	-41	159	147	3½	-39	65
				150	2	-42	151	165	16½	-34½	130
<i>West edge of plateau</i>											
81	0½	+7	161	152c	2	-43	57	170	11	-40½	28
94	1	-3	84	166c	1	-50	162	<i>Moratalla, Murcia</i>			
								91	1	-0½	Bagil*

*Measure courtesy of Juan Antonio Belmonte.

Numbers according to M. García Sanchez and J.-C. Spahni, "Sepulcros megalíticos de la región de Gorafe (Granada)", *Archivo de prehistoria Levantina*, viii (1959), 43–111.

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5.5. Orientations of 9 megalithic sepulchres at Baños de Alicún (lat. 37.5°).

Az. °	Alt. °	Dec. °	Tomb	Az. °	Alt. °	Dec. °	Tomb
120	6	-19½	10	165	3	-47½	8
123c	7½	-20½	12	175	8½	-44	6
129	30	-7½	4	184?	4	-48½?	3
145	6	-35½	7	204	1½	-45½	9
155	2½	-44	11				

Numbers according to García Sanchez and Spahni.

5.6. Orientations of 8 megalithic sepulchres at Fonelas (lat. 37.4°), alt. 1° assumed throughout, author's numbering.

Az. °	Dec. °	Tomb	Az. °	Dec. °	Tomb	Az. °	Dec. °	Tomb
93	-2	2	126	-27½	8	164c	-49	3
109	-14½	9	137c	-35	5	197/17	-49/+50	7
112	-17	10	144	-39½	6			

5.7. Orientations of 41 megalithic sepulchres at Montefrío (lat. 37.3°), author's numbering.

Az. °	Alt. °	Dec. °	Tomb	Az. °	Alt. °	Dec. °	Tomb	Az. °	Alt. °	Dec. °	Tomb
74	6?	+16½	1	102	5	-6½	15	117	8?	-16	29
82	4?	+8½	2	103	5½	-7	16	120	5½	-20	30
83	1	+6	3	104	5½	-8	17	120	6	-19½	31
85	6	+7½	4	106	5?	-9½	18	120	6½	-19	32
85	1?	+4½	5	107	6	-9½	19	122	6½	-20½	33
87	9	+8	6	108	1½	-13½	20	123	6½	-21½	34
90	1	+0½	7	110	5	-12½	21	124	6½	-22	35
90	3	+1½	8	111	6½	-12½	22	125	6½	-22½	36
90	3	+1½	9	111	6½	-12½	23	127	6½	-24	37
91	1	-0½	10	115	8	-14½	24	128	10?	-22	38
96	3	-3	11	114	5½	-15½	25	137	2½	-34	39
99	8	-2½	12	114	6½	-14½	26	138	7	-31	40
102	2	-8½	13	115	6	-16	27	159	3	-45½	41
102	3	-8	14	116	6½	-16	28				

5.8. Orientations of 7 megalithic sepulchres at El Pantano de los Bermejales (lat. 37.0°).

Az. °	Alt. °	Dec. °	Group	Az. °	Alt. °	Dec. °	Group
96	3	-3	3	120	2	-22½	6
96c	3	-3	5	125	2	-26	6
108	3	-12½	2	145	1	-40½	5
112	3	-15½	2				

Groups according to A. Arribas Palau and J. E. Ferrer Palma, "La necrópolis megalítica del Pantano de los Bermejales (Granada): Actuaciones arqueológicas", *Anuario arqueológico de Andalucía*, 1986, 307–10.

5.9. Orientations of 13 tombs in the province of Málaga.

Az.	Alt.	Lat.	Dec.	Tomb
°	°	°	°	
<i>Megalithic sepulchres</i>				
81	3	36.8	+8½	Chaperas 1
97	4	36.9	-3	Tajillo del Moro
45c	0	37.0	+34	Menga
132	11	36.7	-24½	Encinas Borrachas 1
180c	8½	36.7	-45	Encinas Borrachas 2
72	3½	36.8	+16½	El Gigante
92	1	36.8	-1	La Giganta
77	1½	36.8	+11	La Angostura 1
109	5	36.8	-12	La Angostura 2
125	5	36.8	-24	La Angostura 3
76	0	36.8	+10½	El Moral
96c	4	37.0	-2½	Viera
Tholos	199	5	37.0	-44½
				El Romeral

5.11. Orientations of 16 tombs in the province of Sevilla.

Az.	Alt.	Lat.	Dec.	Tomb
°	°	°	°	
<i>Megalithic (misc.)</i>				
32c	8	37.9	+48½	Bradford, Almadén de la Plata
70	3	37.9	+17½	Palacio 5, Almadén de la Plata
79	1	37.9	+9	Cañalazarza, Almadén de la Plata
79c	1	37.3	+8½	La Casilla, El Gandul
80	2	37.9	+9	Palacio 1, Almadén de la Plata
82	1	37.9	+6½	La Dehesa, Almadén de la Plata
91	0	37.3	-1	Tumba del Pedrejón, El Gandul
95	0	37.9	-4½	Gabino, Almadén de la Plata
102	3	37.8	-7½	Palacio 4, Almadén de la Plata
128	0	37.9	-29½	Palacio 2, Almadén de la Plata
136	0	37.8	-35	Palacio 3, Almadén de la Plata
139	0	37.3	-37½	Las Canteras, El Gandul
<i>Tholoi</i>				
17¾	0	37.4	+48½	Matarrubilla, Valencina de la Concepción
77	0	37.3	+10	El Término, El Grandul
131	-0½	37.3	-32½	Cueva del Vaqueiro, El Grandul
242¾	2	37.4	-20¼	La Pastora, Valencina de la Concepción

5.12. Orientations of 6 megalithic sepulchres in the province of Cádiz.

Az.	Alt.	Lat.	Dec.	Tomb
°	°	°	°	
<i>Megalithic (misc.)</i>				
32	1	36.3	+43½	Los Charcones, Benalup
214	1	36.2	-41½	Tomb 1E, La Laguna de la Janda
216	1	36.2	-40½	Tomb 3G, La Laguna de la Janda
231	1	36.2	-30	Tomb 2F, La Laguna de la Janda
234	0	36.2	-28½	Tomb C, La Laguna de la Janda
250	1	36.2	-15½	Tomb 4H, La Laguna de la Janda

Letters according to C. de Mergelina, "Los focos dolménicos de la Laguna de la Janda", *Memorias de la Sociedad Española de Antropología, Etnografía y Prehistoria*, iii (1924), 97-126; numbers as cited therein.

Tholoi

74	1	38.3	+13	Delgados 3, Fuente Obejuna
79	0	38.3	+8	Delgados 1, Fuente Obejuna
87	1	38.2	+2½	Mingullo 4, Villanueva de Córdoba
122c	1	38.3	-24	Delgados 2, Fuente Obejuna

5.13. Orientations of 33 tombs in the province of Huelva.

Az. °	Alt. °	Lat. °	Dec. °	Tomb	Az. °	Alt. °	Lat. °	Dec. °	Tomb
<i>Antas</i>									
93	1	38.0	-2	Pasada del Abad, Rosal de la Frontera	26	1	38.1	+45½	
96	4	37.9	-2½	Alcalabozá, Aroche	43*	1	38.2	+35½	La Dehesa del Hospital, Monasterio
<i>Megalithic (misc.)</i>									
52	1	37.7	+29½	Puente de los Muertos, Zalamea la Real	44*	4	38.2	+37	Juncos 2, Llerena
66	2	37.5	+20	La Plazuela 1, Villanueva de los Castillejos	50	1	38.2	+31	Alquitudes, Llerena [Road Ex202, Km 52]
74	7	37.7	+17	La Cantina, El Campillo	65	4½	38.0	+22	La Cueva, Llerena
75	0	37.6	+11½	Los Gabrieles 2, Valverde del Camino	66*	2½	38.2	+20	Juncoso, Llerena
75	0	37.5	+11½	El Labradillo, Beas	92	2	38.3	-0½	Valvengo 1, Jerez de los Caballeros
80	4	37.9	+10	Vadelinares, Zufre	<i>Anomalous construction</i>				
82	1	37.6	+6½	El Pozuelo 5, Zalamea la Real	87	0	38.9	+2	Magacela, Mérida
83	1	37.6	+6	Los Gabrieles 3, Valverde del Camino	<i>Tholoi</i>				
83	0	37.4	+5	De Soto 1, Trigueros	61	0½	38.2	+22½	Veguilla 1, Llerena
85	3	37.6	+6	El Pozuelo 6, Zalamea la Real	86	3	38.3	+3	La Granja del Torilñuelo, Jerez de los Caballeros
85	1	37.6	+4½	Martin Gil, Zalamea la Real	*Measure possibly affected by magnetic anomaly.				
86	0	37.6	+3	El Pozuelo 2, Zalamea la Real	5.15. See following page.				
90	0	37.6	-0½	Los Gabrieles 6, Valverde del Camino	5.16. Orientations of 9 tombs north or west of Lisbon.				
91	5	37.6	+2	El Pozuelo 8, Zalamea la Real	Az.	Alt.	Lat.	Dec.	Tomb
91	2	37.6	0	El Pozuelo 7, Zalamea la Real	98	0	38.8	-6½	
92	1	37.4	-1	De Soto 2, Trigueros	110	1	38.8	-15	Monte Abraão, Sintra
94	2	37.5	-2	La Plazuela 2, Villanueva de los Castillejos	111	2	38.9	-15	El Carrascal, Agualua
98	0	37.6	-6½	Los Gabrieles 5, Valverde del Camino	Carcavelos, Loures				
100	0	37.6	-8½	El Pozuelo 4, Zalamea la Real	Megalithic (misc.)				
101	4	37.7	-6½	El Cañuelo, Zalamea la Real	80	-0½	38.8	+7	Bela Vista, Sintra
104	0	37.6	-11½	Los Gabrieles 4, Valverde del Camino	213	1½	38.8	-40	Estria, Sintra
116	3	37.6	-18½	La Mezquita, Zalamea la Real	<i>Tholoi</i>				
117	2	37.6	-20	Mascorejo 1, Bercocal	105	1	38.9	-11	Titularia, Mafra
118?	4	37.6	-19½	Mascorejo 2, Bercocal	118	5	38.8	-18	S. Martinho 1, Sintra
120	3	37.6	-21½	El Pozuelo 1, Zalamea la Real	152	-0½	38.8	-44½	Monge, Sintra
120	2	37.6	-22	El Pozuelo 3, Zalamea la Real	160	-0½	39.1	-47	Barro, Torres Vedras
130	0	37.5	-31	Mesa de las Huellas 20, Niebla					
<i>Anomalous construction</i>									
179	5	38.0	-47	La Balleza, Aroche					
<i>Tholoi</i>									
85	2	37.8	+5	Charco del Toro, Santa Bárbara de Casa	105	1	38.9	-11	
161	4	37.8	-45	El Bicho, Santa Bárbara de Casa	118	5	38.8	-18	
170	-0½	37.8	-52½	El Morino, Santa Bárbara de Casa	152	-0½	38.8	-44½	
					160	-0½	39.1	-47	

5.15. Orientations of 24 tombs of southern Portugal.

	Az. °	Alt. °	Lat. °	Dec. °	Tomb
Antas	82	0	37.8	+6	Pedra d'Anta 1, Ourique
	108	1	38.1	-13½	Pedra Branca, Santiago do Cacém
Megalithic (single-stone chambers)					
108	1	37.4	-14	Curral da Castelhana, Alcoutim*	
109	6	37.4	-11½	Cerro das Pedras Altas, Tavira*	
115	0½	37.4	-19½	Cerro da Masmorra, Tavira*	
Megalithic (misch.)					
70	0	37.6	+15½	Fernão Vaz 1, Ourique	
73	0	37.6	+12½	Fernão Vaz 2, Ourique	
81	0	37.8	+6½	Carborela, Ourique	
100	2	38.1	-7	Palhota, Santiago do Cacém	
107c	0½	37.6	-13½	Brejo, Ourique	
108	0	37.2	-14	Alcalá 1, Portimão	
116	-0½	37.1	-21	Pedra Escorregadia, Vila do Bispo	
118	4	37.5	-19½	Lavajo, Alcoutim*	
Tholoi					
54c	0	37.2	+27½	Alcalá 11, Portimão	
65	0	37.7	+19	? Ourique	
99	0	37.2	-7½	Alcalá 7, Portimão	
102c	0	37.2	-9	Alcalá 3, Portimão	
103	0	37.6	-10½	Cerro de Gato, Ourique	
106c	0	37.6	-13	M. Velha, Ourique	
112	1	37.4	-7½	Eira dos Palheiros, Alcoutim*	
112	4	37.3	-15	Corte Cabreira, Aljezur	
120	1	37.2	-23	Alcalá 4, Portimão	
120c	0	37.2	-24	Alcalá 9, Portimão	
127	2	37.6	-27½	Baranco de Nora Velha, Ourique	

6.1. Orientations of 12 'small' tombs of central Alentejo and the Elvas region, and of 10 tombs of the central Alentejo of uncertain type.

Chapter 6. Tombs of West Iberia

	Az. °	Alt. °	Lat. °	Dec. °	Tomb
'Small' tombs of central Alentejo					
73	1	38.8	+13½	Mijadouros, Estremoz	
79	0½	39.3	+8½	Cabeço, Ponte de Sor	
79	2	38.9	+9½	Monte das Oliveira 2, Mora	
97	1	38.6	-5	Giões, Évora	
99	0½	38.9	-7	Remendo 2, Mora	
113	0	38.9	-18	Gonçala 6, Mora	
120	1	38.9	-22½	Monte dos Condes, Mora	
129	0	38.6	-30	Anta Cist., Vale de Moura, Évora	
'Small' tombs of the Elvas region					
71c	4	39.0	+17	Cegonha	
93	0½	39.0	-2½	Torrão 3	
101	1	39.0	-8	Cabeça Gorda	
126	0½	38.9	-27	Pombal 4	
Central Alentejo tombs of uncertain type					
78	0	38.4	+9	Poço de Gataira 1, Reguengos	
85	1	38.6	+4½	Colmeiro 2, Redondo	
91	1	38.6	-0½	Godinha de Cima 2, Redondo	
102	2	38.4	-8½	Poço de Gataira 2, Reguengos	
103	0	38.4	-10½	Sta Margarida 1, Reguengos	
109	0	38.7	-15	Lucas 1, Alandroal	
113	0	38.6	-18	Godinha de Cima 1, Redondo	
115	3	38.7	-17½	Cubo, Alandroal	
typ	0	39.3	typ	Alminho 2, Ponte de Sor	
typ	0	38.7	typ	Hortinas, Alandroal	

*Measures courtesy of Fernando Pimenta.

typ: quantitative measure not possible, but tomb faced in a 'typical' direction.

5.16. See preceding page.

6.2. Orientations of 177 seven-stone antas of Portugal and neighbouring provinces of Spain. Towns are from the Alentejo region of Portugal unless otherwise specified.

	Tomb			Tomb			
Az. °	Alt. °	Lat. °	Dec. °	Az. °	Alt. °	Lat. °	Dec. °
61 1	38.3	+23	Dehesa Bollai 1, Jerez de los Caballeros (B)	91	0	38.9	-1
64 1	39.0	+20½	Contrada, Elvas	91	1½	38.8	0
70 4	39.4	+18	Huerta de las Monjas, Valencia de Alcántara (C)	91	0	39.3	-1
76 0	39.4	+10½	Lanchas 1, Valencia de Alcántara (C)	91	0	39.2	-1
77 0½	38.9	+10	Gonçala 2, Mora	91	1	38.5	-0½
79 1	38.9	+9	Remendo 1, Mora	91	0	39.2	-1
79 2½	39.5	+10	Pero d'Alba, Castelo de Vide	92	3	39.4	0
81 3½	39.3	+9	Datas 1, Valencia de Alcántara (C)	92	1	38.9	-1
81 6½	39.4	+11	Sobral, Castelo de Vide	93	1	38.0	-2
81 0½	39.4	+7	Courelhos 3, Castelo de Vide	93	1	38.6	-2
82 0	37.8	+6	Pedra d'Anta 1, Ourique, S. Portugal*	93	1	38.9	-2
82 0	38.9	+6	Caeria 3, Mora	93	4	39.4	0
82 2	39.4	+7½	Tapada del Anta, Valencia de Alcántara (C)	93	-0½	39.0	-3
82 0	38.4	+6	Herdeira do Duque, Reguengos	94	0½	38.6	-3
82 0	38.6	+6	Paralim, Évora	94	1½	38.9	-2½
82 0	39.4	+6	Courelhos 2, Castelo de Vide	94	0	38.9	-3½
82c -0½	39.0	+5½	Torrião 1, Elvas	94	0½	38.9	-3
83 0	39.4	+8	Courelhos 4, Castelo de Vide	94	0½	38.6	-3
83 0	38.9	+5	Caeria 4, Mora	95	2½	38.5	-2½
83 0½	38.9	+5½	Cré 1, Mora	95	2	39.0	-3
83 0	39.3	+5	Morera, Valencia de Alcántara (C)	95	0	38.6	-4½
84 3	39.0	+6½	Olival do Monte Velho, Elvas	95	5	39.4	-1
84 0	39.4	+8	Silval, Évora	95	2	38.7	-3
84 0	38.6	+4½	Courelhos 1, Castelo de Vide	95	0	38.4	-4½
84 1	39.4	+4½	Paredes, Évora	95	0	38.9	-4½
84c 0	38.6	+5	Defesinhos 1, Elvas	95c	0	38.6	-4½
85 0½	38.8	+4½	Cré 2, Mora	96	0½	38.6	-4½
85 0	38.9	+4	Bota 1, Évora	96	4	37.9	-2½
86 2	38.5	+4	Camino de los Bombonas, Barcarrota (B)	96	-2	38.5	-3½
86 2	38.5	+4	Hermosina, Barcarrota (B)	96	-0½	38.6	-5½
86 2½	39.5	+4½	Currais do Galhordas, Castelo de Vide	98	-0½	38.4	-7
86 0	39.4	+2½	Zafra 2, Valencia de Alcántara (C)	98	1	38.8	-6
86 5	39.4	+6	Tapias 2, Valencia de Alcántara (C)	98	1	38.6	-6
86 1½	38.7	+4	Claros Montes 1, Arraiolos	98	0½	38.6	-6
87 1	39.1	+2½	Dehesa de la Muela, Mérida (B)	98	0	38.8	-6½
88 -0½	38.9	+1	Caeria 1, Mora	99	10½	39.5	0
88 0½	39.4	+1½	Barca, Valencia de Alcántara (C)	99	-0½	38.6	-8
88 1	38.6	+2	Pinheiro do Campo 1, Évora	100	5	39.4	-4½
89 0½	39.4	+1	Huerta Nueva, Valencia de Alcántara (C)	100	0½	38.9	-8
89 4	39.4	+3	Miera, Valencia de Alcántara (C)	100	1	38.6	-7½
89 0½	38.6	+1	Freixo de Cima 1, Évora	100	0½	39.3	-7½
89 0	38.9	+0½	San Diniz, Mora	100	1	38.6	-7½
89 4	38.9	+3	Gonçala 6, Mora	101	1½	38.5	-8
90 1½	38.9	+0½	Figueirinha 2, Mora	101	0	38.6	-9
90 0½	38.9	+0½	Portela, Mora	101	0½	38.6	-8½
91 0	38.4	-1	Farisoa 4, Reguengos	101	0	38.8	-9

Table 6.2 continued]

	Az.	Alt.	Lat.	Dec.	Tomb	Az.	Alt.	Lat.	Dec.	Tomb
101	0	39.4	-9	Gáfeite 1, Crato	108	1	38.1	-13½	Pedra Branca, Santiago do Cacém, S. Portugal*	
101	5½	39.3	-5	Cajirón 2, Valencia de Alcántara (C)	108	0	38.8	-14½	Defesinhos 2, Elvas	
101	6½	39.4	-4½	Zafra 1, Valencia de Alcántara (C)	108	0	38.8	-14½	Sobral, Elvas	
101	0½	38.9	-8½	Anta Grande dos Antões, Mora	109	1	38.9	-14½	Pombal 5, Elvas	
101	0	38.4	-9	Cebolinhos 2, Reguengos	109	-0½	38.6	-15½	Azinhheiras, Évora	
102	4	38.7	-7	Pão Mole, Alandroal	109	1	38.4	-14½	Passo 1 Reguengos	
102	1	38.6	-9	Candeira, Redondo	109	0	38.9	-15	Penha Clara 1, Elvas	
102	-0½	38.9	-10	Torre das Arcas 1, Elvas	110	2	39.4	-14	Tapias 1, Valencia de Alcántara (C)	
102	0	39.3	-9½	Marquesa, Valencia de Alcántara (C)	110	0	38.9	-16	Lapeira, Mora	
102	0	39.4	-9½	Gáfeite 2, Crato	110	1	38.9	-15	Gonçala 5, Mora	
102	0	39.0	-9½	Lácaria, Mérida (B)	110	1	38.8	-15	Carrascal, Agualva, nr Lisbon*	
103	2	38.8	-9	Casas do Canal, Estremoz	110c	0	38.6	-16	Vale de Rodrigo 3, Évora	
103	-0½	38.4	-11	Farisoa 1, Reguengos	111	1½	38.8	-15½	Forte de Botas, Elvas	
103	1	38.6	-9½	Azanjia 2, Évora	111	2	39.5	-15	Conto do Zé Godinho, Castelo de Vide	
103	0	38.6	-10½	Azanjia 1, Évora	111	0	38.9	-16½	Quinta das Longas, Elvas	
103	0	38.4	-10½	Gorginios 3, Reguengos	111	2	38.9	-15	Carcavelos, Loures, nr Lisbon*	
103	0	38.6	-10½	Barrosinha 1, Évora	112	0	38.9	-17½	Monte dos Negros, Elvas	
103	2½	38.4	-8½	Olival de Pega 2, Reguengos	112	4½	38.5	-14	Palacio, Barcarrota (B)	
104	0½	39.3	-11	Bernardo, Ponte de Sor	112	0	38.6	-17½	Vale de Moura 2, Évora	
104	2½	39.3	-9½	Anta de Crato, Crato	112c	0	38.6	-17½	Vale de Rodrigo 2, Évora	
104	0½	38.6	-11	Anta Grande de Zambrujeiro, Évora	113	0½	38.6	-18	Hospital, Redondo	
104	0	38.4	-11½	Monte Novo 2, Reguengos	113	0	38.4	-18	Farisoa 7, Reguengos	
104	3	38.4	-9	Anta Grande , Olival de Pega, Reguengos	113	0	38.4	-18	Gorginios 1, Reguengos	
104	0½	38.6	-11	Freixo de Cima 2, Évora	114	0	38.8	-19	São Rafael 2, Elvas	
104	1	39.4	-10½	São Gens, Nisa	114	0½	39.4	-18½	Corcherio, Valencia de Alcántara (C)	
104	0	38.4	-11½	Farisoa 5, Reguengos	116	10	38.8	-13	Corticeira, Estremoz	
104c	2	39.0	-9½	Don Miguel, Elvas	116	0½	38.6	-20	Vidigueiras, Redondo	
105	3½	39.4	-9½	Fragoso, Valencia de Alcántara (C)	117	2	38.6	-19½	Rocamador, Barcarrota (B)	
105	1	38.8	-11½	São Rafael 1, Elvas	118	-0½	38.9	-22	Casas Novas, Redondo	
105	0	38.4	-12	Farisoa 2, Reguengos	118	1	38.8	-21	Torre das Arcas 2, Elvas	
105	-0½	39.3	-12½	Matanga, Ponte de Sor	122c	0	38.8	-25	Valmor, Elvas	
106	0½	38.6	-11½	Sauza 1, Évora	121	2½	38.5	-22	Vidigueiras 1, Reguengos	
106	5½	39.3	-9	Datas 2, Valencia de Alcántara (C)	128	9	39.6	-21½	La Tierra Caída 2, Cedillo (NW C)	
106	1½	38.9	-11½	Briços, Mora	129	10	39.6	-21½	La Tierra Caída 1, Cedillo (NW C)	
106	1	38.9	-13	Cebolinhos 1, Reguengos	typ	0	38.4	typ	Monte Novo 1, Reguengos	
106	-0½	38.6	-13	Vidigueiras 2, Reguengos	typ	0	38.4	typ	Monte Novo 4, Reguengos	
107	2½	38.7	-11½	Galvães, Alandroal	typ	0	38.4	typ	Vale Carneiro 5, Reguengos	
107	0½	38.6	-13	Sauza 2, Évora	typ	0½	38.6	typ	Paço 2, Redondo	
108	1	38.9	-13½	Gonçala 3, Mora	typ					

typ: quantitative measure not possible, but tomb faced in a 'typical' direction. C: Cáceres; B: Badajoz; H: Huélva. *Repeated here from a previous table.

6.3. Orientations of 35 schist tombs of NW Cáceres and the Portuguese Upper Tejo.

Az.	Alt.	Lat.	Dec.	Tomb
<i>Area of Rosmaninhál, Portugal</i>				
88	0	39.8	+1	Amieiro 2
88	0	39.8	+1	Couto da Espanholha 2
93	0	39.8	-2½	Amieiro 3
99	0	39.7	-7½	Samarrudo 1
102	0	39.7	-9½	Mesas
104	0	39.7	-11	Cubieiras 2
104	0	39.7	-11	Zambujo 1
106	0	39.7	-12½	Tapada da Ordem 1
109	0	39.7	-15	Zambujo 3
111	0	39.7	-16½	Zambujo 2
111	0	39.8	-16½	Couto da Espanholha 6
114	0	39.7	-18½	Tapada da Ordem 2
143	0	39.7	-38½	Samarrudo 2
typ	0	39.8	typ	Amieiro 8
<i>Area of Vila Velha de Ródão, Portugal</i>				
76	1½	39.7	+11½	Santo Amaro 2
93	3	39.7	-0½	Santo Amaro 1
93	2	39.8	-1	Casa da Moura
95	7½	39.7	+1	Cabeço de Anta
95	0½	39.7	-4	Vale das Cobras
130	3½	39.8	-27	Silveirinha
<i>Area of Nisa, Portugal</i>				
92	1½	39.6	-1	Terra da Frágua
97	0	39.6	-6	Tapada do Muro
101	1	39.6	-8	Terra da Azinheira
102	0	39.6	-9½	Naves
104	0	39.6	-11	Tapada do Sobreirão
109	1½	39.6	-14	Oiro

6.4. Orientations of 21 megalithic tombs of the province of Salamanca.

Az.	Alt.	Lat.	Dec.	Tomb/Type
84c	1	40.9	+5	Casa del Moro, Traguntia (a)
87c	0	40.7	+2	Castillos 1, Hurtada, Villar de Argañán (b)
93c	2½	40.5	-1	Torreón, Navamorales (a)
104c	3½	40.6	-8½	Piedras Hincadas, El Valle (b)
105c	2	40.6	-10	Prado Nuevo, Salvatierra de Tormes (a)
105c	1	40.8	-11	Torre, Vecinos (a)
109	2	40.6	-13	Terriñuelo, Aldeavieja de Tormes (a)
				Eras, Fuenteliente (?)
				Casa del Moro, Gejuelo del Barro (a)
110	0	41.0	-15½	Zafrón, Doñinos de Ledesma (a)
111	1	41.0	-15½	Meson de Porqueriza, La Mata de Ledesma (a)
112	0	41.0	-17	Sahelcejos, Villar de Peralonso (a)
112	0½	41.0	-16½	Torrejón, Villarmayor (a)
115	0	41.0	-19	Prado de la Nava, Salvatierra de Tormes (a)
116	2	40.6	-18½	Navalito, Lumbrales (b)
117	0½	40.9	-20	Casa del Moro, Villasdardo (a)
117	0½	41.0	-20	Rábida 1, Ciudad Rodrigo (c)
119	1½	40.6	-21	Torreçilla, S. Benito de La Valmuza (a)
121	1½	40.9	-22	Castillejo 1, Martín de Yeltes (a)
124	0½	40.0	-25½	Cista, El Valle (c)
128c	6½	40.6	-23	Rábida 2, Ciudad Rodrigo (a)
133	7	40.6	-26	

6.5. See following page.

6.6. Orientations of 8 tombs of the coastal region of north-central Portugal.

Az.	Alt.	Lat.	Dec.	Tomb
73	-0½	40.8	+12	Pedra da Moura 1, S. Jouga = Cerqueira 1, Cambra
79	3½	40.9	+10½	Arreçaio 2, Sta Eulália, Arouca
87	5	40.9	+5½	Portela da Anta, Albergaria da Serra, Arouca
126	-0½	40.8	-27½	Pedra da Moura 3, S. Jouga (?)
128	-0½	40.8	-28½	Coval 2, S. Jouga
141	1	40.9	-35½	Alijada 2, Sta Eulália, Arouca
146	1	40.9	-38½	Alijada 1, Sta Eulália, Arouca
174	-0½	40.8	-50	Juncal 1, Mânhouce, S. Pedro do Sul

The two seven-stone antas of northwestern Cáceres are listed in Table 6.2.
typ: quantitative measure not possible, but tomb faced in a typical' direction.

6.5. Orientations of 48 megalithic tombs of the Mondego Plateau.

Table 6.5 continued]						
	Az. °	Alt. °	Lat. °	Dec. °	Tomb/Type	Tomb/Type
<i>Mondego Basin</i>						
77	7	40.4	+14½		Lapa da Recainha, Oliveira do Hospital (II)	<i>Torto Basin (South Douro)</i>
77c	1	40.2	+10½		S. Pedro Dias, Vila Nova de Poiares (II)	77 -0½ 40.9 +9 Lameira de Cima 2, Antas, Penedono (II)
89	0	40.5	+0½		Orca do Oureira do Rato, Lapa do Lobo (II)	85 2½ 41.0 +5 Dolmen de Areita, S. João da Pesqueira (II)
94	3	40.5	-1		Orca do Carcalval de Louca, Paranhos, Seia (?)	88 3 41.0 +3½ S. do M. 3, Penela da Beira, Penedono (II)
97	2	40.7	-4		Orca de Corgas de Matança, Fornos de Alg. (II)	89 -0½ 40.9 0 Lameira de Cima 1, Antas, Penedono (II)
98	1½	40.5	-4½		Arquinhã da Moura, Lageosa, Tondela (II)	90 4 41.0 +2½ S. do M. 5, Penela da Beira, Penedono (?)
101	1½	40.5	-7½		Sobreda, Oliveira do Hospital (II)	128c 4 41.0 -25 S. do M. 1, Penela da Beira, Penedono (?)
102	0	40.5	-9½		Orca de Pramedias, Canas de Senhorim, Nelas (I)	typ 4 41.0 typ S. do M. 2, Penela da Beira, Penedono (?)
108	4	40.8	-11		Capitão 1, Aguiar da Beira (I)	
109	2½	40.4	-13		Orca de Fiais da Telha, Carregal do Sal (II)	
113	3	40.6	-15½		Casa da Orca da Cunha Baixa, Mangualde (II)	
113c	2½	40.4	-16		Orca 2 do Ameal, Carregal do Sal (II)	
114	0	40.7	-18½		Mamalart de Vale de Fachas, Viseu (II)	
114	5½	40.5	-14½		Orca de Rio Torto, Gouveia (II)	
116c	3	40.5	-17½		Orca do Folhadal, Nelas, Viseu (I)	
117c	3½	40.8	-18		Capitão 2, Aguiar da Beira (I)	
118	1½	40.7	-20		Casa da Orca de Cortiço, Fornos de Alg. (II)	
119	2½	40.5	-20½		Orca de Santo Tisco, Carregal do Sal (III)	
121	2½	40.5	-21½		Orca de Vale Torio, Paranhos, Seia (?)	
124c	1½	40.5	-24½		Mondegã, Lapa de Tourais (III)	
124	1½	40.4	-24½		Seixão da Beira, Oliveira do Hospital (II)	
126c	2½	40.5	-24½		Chaveiral 2, Pranhos, Seia (I)	
136c	3½	40.5	-30½		Chaveiral 1, Pranhos, Seia (I)	
typ	0	40.5	typ		Penela 1, Lageosa, Tondela (?)	
typ	0	40.5	typ		Penela 2, Lageosa, Tondela (?)	
typ	?	40.5	typ		Areal, Tondela (?)	
<i>Vouga Basin</i>						
44	-0½	40.8	+32		Pedralta, Cota, Viseu (II)	<i>Alto Paiva Basin (South Douro)</i>
66	1	40.7	+18½		Chão Redondo 1, Sever do Vouga (I)	101 -0½ 41.3 -9 Madorras 1, Sabrosa
90	0	40.7	-0½		Antelias, Oliveira de Frades (I)	106 2 41.3 -11 Zedes, Carrazeda de Ansiães
91c	9	40.7	+5		Os Chascos, Ribeiradio, Oliveira de Frades (?)	116 2 41.3 -18 Fonte Coberta, Chã de Alijo
106	5	40.7	-9		Lapa do Repilau, Couto de Cima, Viseu (II)	119 2½ 41.4 -19½ Dôlmen de Arcã - Abrreiro, Mirandela
122	1½	40.7	-23½		Fojó 1, Couto de Cima, Viseu (?)	124 2½ 41.5 -23 Chã das Arca 4, Vila Pouca de Aguiar
129	4	40.6	-25½		Espirito Santo d'Arca 2, Caramulo (?)	129 5½ 41.2 -24 Pala da Moura, Vilariño da Castanheira, Carrazeda de Ansiães
138	2	40.8	-33		Ora de Pendilhe, Vila Nova de Paiva (II)	130 4 41.4 -26 Anta da Caravela, Caravelas, Mirandela
6.6. Orientations of 11 tombs on the north bank of the Douro Basin.						
	Az. °	Alt. °	Lat. °	Dec. °	Tomb	
6.7. Orientations of 11 tombs on the north bank of the Douro Basin.						
	Az. °	Alt. °	Lat. °	Dec. °	Tomb	
6.8. Orientations of 7 tombs of the Miranda Plateau and Trás-os-Montes.						
	Az. °	Alt. °	Lat. °	Dec. °	Tomb	

6.9. Orientations of 12 tombs of the Minho.

Az. °	Alt. °	Lat. °	Dec. °	Tomb	Az. °	Alt. °	Lat. °	Dec. °	Tomb
80 1	41.9	+8		Mezio 4, Arcos do Valdevez	101 [2]	42.0	-7		Batateiro, Melgaço
86 0	41.6	+2½		Rápido 1, Espoende	102 3	41.9	-7		Mezio 3, Arcos do Valdevez
91 5	41.8	+2½		Eireira, Afife, Viana do Castelo	105 1½	41.8	-10½		Barrosa, Vila Praia de Âncora
91 0	42.1	-1		Alto da Portela do Pau 1, Castro Laboreiro,	108 0½	42.1	-13		Alto da Portela do Pau 2, Castro Laboreiro,
97 1½	41.6	-4½		Melgaço					Melgaço
100 5	41.5	-4		Castelo de Neiva 1, Viana do Castelo	113 0	41.6	-17½		Portalagem, Espoende
				Lamas, Braga	116 0½	41.5	-19		Cima de Vila 1, Espoende

Chapter 7. Tombs of North Iberia and Neighbouring France

7.1. Orientations of 34 antas de corredor of Galicia.

Az. °	Alt. °	Lat. °	Dec. °	Tomb	Az. °	Alt. °	Lat. °	Dec. °	Tomb
<i>Province of A Coruña (NW Galicia)</i>									
93 4	43.0	+0½		Arca da Piosa	74 1	42.7	+12		Campo de Valentín
93 2½	42.7	-0½		Casota do Fusiño	107 2½	42.7	-11		Santa Mariña 30
97 3	42.9	-3		Parxubeira	119 1	43.0	-20½		Veira 1 = D. de A. Moruxosa
99 3½	42.6	-4½		Axeitos	120c 0	43.1	-22		Mámoa do Pecado
101 5	43.0	-4½		Pedra Cuberta	127 3	42.7	-24		Santa Mariña 19
102c 3	42.8	-7		Argalo	127 1	43.1	-25½		Mámoa da Caída
102 -0½	42.7	-9½		Pedro da Xesta 1	134 3	42.7	-28½		Santa Mariña 11
107 3½	43.1	-10		Casota de Freán	137 1	43.1	-32		Dolmen de Bravos
113 -0½	43.0	-17½		Casada dos Mouros					
118 0	43.0	-20½		Forno dos Mouros	100 1½	41.9	-6½		<i>Province of Ourense (SE Galicia)</i>
119 1½	43.0	-20		Dolmen de Monte Carneo	102 -0½	42.1	-9½		Outeiro de Cavalcadre 5
120 3½	42.7	-19		Arca de Barbanza	103 0	42.1	-10		Outeiro Ferro-Penagachi 11*
127 3	43.2	-24		Dombate	104 1½	41.9	-9½		Outeiro Ferro-Penagachi 16*
129 0½	43.1	-27½		A Formella (Aprazadoiro)	105 2	41.9	-10		Veiga de Maus de Sálas
129c 1	42.7	-27		Cavada 1	107 -0½	42.1	-13½		Outeiro de Cavalcadre 1
typ		42.7		Casoto do Parano					Outeiro de Ferro-Penagachi 9*
<i>Province of Pontevedra (SW Galicia)</i>									
65 0½	42.3	+18		Mámoa do Rei, M. Cabeiro					*In Portugal
87c 5	42.4	+5½		Mámoa do Rei, Morazzo					
111 -0½	42.2	-16		Dolmen de Meixueiro					
127 2	42.3	-25		Chan de Arquiña					

7.2. Orientations of 25 tombs of north-central Spain.

	Az. °	Alt. °	Lat. °	Dec. °	Tomb	Az. °	Alt. °	Lat. °	Dec. °	Tomb
<i>Province of Burgos</i>										
101	0 ^{1\frac{1}{2}}	42.7	-8		Ciella, Sedano	77 ^c	13	43.0	+18	Ujuidi
113	1	42.7	-16 ^{1\frac{1}{2}}		Porquera de Burtrón, Sedano	95	2 ^{1\frac{1}{2}}	43.0	-2	Zearraoena
121	2	42.7	-21		La Cabaña, Sedano	107	1 ^{1\frac{1}{2}}	43.0	-11 ^{1\frac{1}{2}}	Uelogena Norte
121	0	42.7	-22 ^{1\frac{1}{2}}		San Quirce, Sedano	125	5	43.0	-21	Arrazaranagaña
126	1	42.7	-25		Huidobrio, Sedano	126	2	43.0	-24	Uelogena Sur
126	0	42.7	-26		Las Arnillas, Sedano	141	5	43.0	-30 ^{1\frac{1}{2}}	Jentillari
214	6	42.5	-32 ^{1\frac{1}{2}}		Ruyales del Paramo 1	157	0 ^{1\frac{1}{2}}	43.0	-42 ^{1\frac{1}{2}}	Aranzadi
126	1	42.1	-25 ^{1\frac{1}{2}}		Cubillejo de Lara, Mambrilla de Lara					
<i>Province of Alava</i>										
128	1 ^{1\frac{1}{2}}	42.7	-26		La Mina, Molinilla	84	4	42.9	+7	Beotegi
108	10	42.9	-6		Gurpide Sur, Catadiano	85	0	42.9	+3 ^{1\frac{1}{2}}	Intrusburu
94c	6	42.9	+1		San Sebastián Sun, Catadiano	106	0 ^{1\frac{1}{2}}	42.9	-11 ^{1\frac{1}{2}}	Txarrigorri
100	3	42.9	-5 ^{1\frac{1}{2}}		Aitzkorriendi, Eguiñaz	109	4	42.9	-11	Muñan
131	8	42.8	-22 ^{1\frac{1}{2}}		Sorginetxe, Arizala	115	1	42.9	-17 ^{1\frac{1}{2}}	Igartza Mendebaldea (Trikharria)
140c	0 ^{1\frac{1}{2}}	42.6	-34 ^{1\frac{1}{2}}		Alto de la Huesera, Laguardia					
142	0	42.6	-36		El Encinal, Elvillar	80	2	42.9	+8 ^{1\frac{1}{2}}	Aubia
143	0	42.6	-36 ^{1\frac{1}{2}}		Chabola de la Hechicera, Laguardia	82	5	42.9	+9	Pamplonagain
147	1	42.6	-37 ^{1\frac{1}{2}}		Lazyaza, Laguardia	84	0	42.9	+4	Ipar Aubia
172	2	42.6	-45		San Martín, Laguardia	87	2	42.9	+3 ^{1\frac{1}{2}}	Ekiadeko Elumenta
177c	1	42.6	-46 ^{1\frac{1}{2}}		La Cascaja, Pecina	93	5	42.9	+1	Errengeneko Debata 3
180	0 ^{1\frac{1}{2}}	42.6	-47 ^{1\frac{1}{2}}		El Sotillo, Laguardia	97	7	42.9	-0 ^{1\frac{1}{2}}	Seakon 1
						101	1	42.9	-7 ^{1\frac{1}{2}}	Erbilerry
<i>North east Guipúzcoa</i>										
135	0 ^{1\frac{1}{2}}	41.9	-31 ^{1\frac{1}{2}}		El Alto de la Tejera, Carrascosa de la Sierra	78	3 ^{1\frac{1}{2}}	43.2	+11	Pontzontorriko Igoingo Lepua 1
115	1	41.4	-17 ^{1\frac{1}{2}}		Portillo de las Cortes, Aguilar de Anguita	91	6	43.3	+3 ^{1\frac{1}{2}}	Aritxeta
<i>Province of Navarra</i>										
168	-0 ^{1\frac{1}{2}}	42.6	-47		Portillo de Eñeriz, Farangortea	92	2	43.2	-0 ^{1\frac{1}{2}}	Sagastietako Lepua 1
168	-0 ^{1\frac{1}{2}}	42.6	-47		La Mina de Farangortea, Farangortea	97	2	43.2	-6	Sagastietako Lepua 2
123	11	42.9	-15		Arrako, Roncal	100	2	43.2	-7	Akolako Lepua 1
						102	3	43.2	-3 ^{1\frac{1}{2}}	Akolako Lepua 2

74. Orientations of 77 dolmenic chambers of the French Basque Country (lat. 43°N, alt. 2° assumed throughout).

Az.	Dec.	Tomb	Az.	Dec.	Tomb	Az.	Dec.	Tomb
30 °	+41	Larria 1N, Sare (L)	85 °	+5	Xoldokozelai, Urrugne (L)	110 °	-13	Baihunza 1, St Ét. (BN)
45 +32	Xarita 1, Sare (L)	85 °	+5	Ameztia, Sare (L)	115 °	-17	Gastenbakarre 1, Sare (L)	
55 +26	Baihunza 2, St Ét. (BN)	85 °	+5	Argainé 2, Sare (L)	115 °	-17	Xeruen, Ascain (L)	
55 +26	Abrakou, Banca (BN)	85 °	+5	Aradoy, Ispoune (BN)	115 °	-17	Petillare, Lecumberry (BN)	
55 +26	Ibantelli E, Sare (L)	85 °	+5	Lapitzeta W, Sare (L)	115 °	-17	Mugi 2, Urrugne (L)	
60 +23	Arguibel 1, Ascain (L)	85 °	+5	Galbario 3, Urrugne (L)	115 °	-17	Gastenbakarre 1, Sare (L)	
65 +19	Jarra ()	90 °	+1	Iuskadi, Itxassou (L)	115 °	-17	Bagozabalaga, Larrau (S)	
65 +19	Dondonia 2, St Martin (BN)	90 °	+1	Argubile N, Ascain (L)	115 °	-17	Galbario 1, Urrugne (L)	
65 +19	Ibantelli W, Sare (L)	90 °	+1	Usatuita 2, Urrugne (L)	115 °	-17	Tomba, Sare (L)	
65 +19	Xarita 2, Sare (L)	90 °	+1	Bordeta, Barcios (S)	115 °	-17	Ithé 1, Aussurucq (S)	
65 +19	Altxaan, Sare (L)	90 °	+1	Meatzé, Itxassou (L)	120 °	-20	Arniaga, Behorleguy (BN)	
70 +16	Larria 2, Sare (L)	90 °	+1	Bulluntza, Ahaxe (BN)	125 °	-24	Xominen 1, Sare (L)	
70 +16	Andriola, Ascain (L)	95 °	-2	Xoldokorisko, Ascain (L)	125 °	-24	Erintsou, Urrugne (L)	
75 +12	Arguibel 5, Ascain (L)	95 °	-2	Xominen 2, Sare (L)	125 °	-24	Mugi 1, Urrugne (L)	
75 +12	Gastenbakarre 2, Sare (L)	95 °	-2	Gastenbakarre 3, Sare (L)	125 °	-24	Xuberraxain-Harría, Mendive (BN)	
75 +12	Usatuita 1, Urrugne (L)	95 °	-2	Ihcelhaya, Ascain (L)	125 °	-24	Arixiondo, Lecumberry (BN)	
80 +8	Lezante 2, Urrugne (L)	95 °	-2	Urdoze, St Ét. (BN)	135 °	-30	Gasterya, Mendive (BN)	
80 +8	Iguski W, Itxassou (L)	95 °	-2	Berdaritz, Aldudes (BN)	135 °	-30	Mikelare, St Martin (BN)	
80 +8	Larria 3, Sare (L)	100 °	-6	Arondo, Irouléguy (BN)	140 °	-33	Zelaia 2, Ascain (L)	
80 +8	Lezante 1, Urrugne (L)	100 °	-6	Arrixuta, Irouléguy (BN)	145 °	-35	Urrixka 1, Aldudes (BN)	
80 +8	Larria 1S, Sare (L)	105 °	-10	Aternin, Sare (L)	145 °	-35	Iropile, Esterençuby (BN)	
80 +8	Antokagaray, Itxassou (L)	105 °	-10	Caque 1, Arette (S)	155 °	-40	Erdikoharría, Sare (L)	
85 +5	Zelaia 1, Ascain (L)	105 °	-10	Ithé 2, Aussurucq (S)	155 °	-40	Dondenia 3, St Martin (BN)	
85 +5	Urbisi, Urrugne (L)	105 °	-10	Arixabale, Sare (L)	165 °	-43	Kutxaxaria, Urepel (BN)	
85 +5	Argainé 1, Sare (L)	105 °	-10	Plateau Vert 1, Bidarray (BN)	175 °	-45	Molkua, Urrugne (L)	
85 +5	Osin, Biriatou (L)	110 °	-13	Omega, Urrugne (L)				

St Ét.: St Étienne-de-Baigorry; St Martin: St Martin-d'Arrossa; BN: province of Labourd; S: province of Soule. Azimuths were measured by Yves Chevalier to the nearest 5°. To compensate for the magnetic variation at the time of the fieldwork (about 4°), 5° has been subtracted from each measure.

75. Orientations of 4 simple dolmens and 1 paradolmen of Ariège.

Az.	Alt.	Lat.	Dec.	Tomb
77 °	0 °	43.1 °	+9 °	Cap del Pouech, Mas d'Azil
86 °	16 °	42.9 °	+13½ °	Ayer
106 °	0 °	43.2 °	-12 °	Brillaud, Mas d'Azil
106 °	1 °	43.1 °	-11 °	Peyre, Mas d'Azil
<i>Paradolmen</i>				
126 °	5 °	42.8 °	-22 °	Genat, Larègue

7.6. Orientations of 21 simple dolmens of Cerdagne and one of Aragon.

Az. °	Alt. °	Lat. °	Dec. °	Tomb
<i>Cerdagne</i>				
73	9	42.2	+18½	Pedracabana, Cabó
83	2½	42.4	+6½	La Barraca del Camp d'en Josepó, Bellver de Cerdanya
83	2½	42.2	+6½	Tarter del Serrat de Malpàs, Cabó
88	0	42.4	+1	Can' Oren I, Prullans
91	0½	42.4	-0½	CM de les Agudes, Montferrer i Castellbò
95	1	42.4	-3½	CM de Coll de Pou, Montferrer i Castellbò
105	6	42.4	-7	CM de la Llosa, Les Valls de Valira
115	3	42.2	-16	CM de Coll de Jou, Montferrer i Castellbò
118	2	42.4	-19	CM de Turbiàs, Montferrer i Castellbò
118	10	42.5	-13	La Borda, Eina (France)
121	3	42.2	-20½	CM de l'Oliva, Cabó
122	[1]	42.3	-22	La Casa Encantada de la Serra de Pinyana, Senterada*
123	3	42.3	-21½	La Cabana de la Mosquera, Baix Pallars*
123	4	42.2	-21	CM de Colomera, Cabó
135	3	42.5	-29	La Cova del Camp de la Marunya, Enveig (France)
136	5	42.3	-28	La Cabanera de Peratuba, Baix Pallars
140	3	42.2	-32½	CM del Serrat de les Cobertades, Cabó
145	10	42.4	-28½	CM de Bescaran, Les Valls de Valira
151	3	42.5	-37½	Èguet, Èguet (France)
152	13	42.4	-29	El Paborde, Alp
161	3	42.4	-41½	CM de Sarcèdol, Montferrer i Castellbò
<i>Aragon</i>				
110	6	42.6	-10½	Piedra del Vasar (Losa de la Campa), Tellà

7.8. Orientations of 22 tombs near Girona.

Az. °	Alt. °	Lat. °	Dec. °	Tomb
<i>Sepulchres with corridor</i>				
138	-0½	41.9	-34½	Puig ses Forques, Calonge (129)
159	-0½	41.9	-45	Mas Bou-Sereny, S. Cristina d'Aro (139)
186	0	41.9	-48½	Can Mina dels Torrents, Llançà-Palafrugell (110)
235	1	41.9	-25	Llobinat, Fitor-Fonteta (124)
244	0	41.9	-19½	Serra Mitjana, Fitor-Fonteta (119)
<i>Catalan galleries</i>				
55	-0½	41.9	+24½	Puig d'Arques, Crullés (149)
63	*	41.9	+19	Carena Jonquet-Vidal, Torrent (113)
68	0	41.9	+16	Tres Peus, Fitor-Fonteta (116)
79	2	41.9	+9½	Roca de la Gia, Fitor-Fonteta (120)
126	-0½	42.1	-27	Túro de Dalmati, Canet d'Adri (158)
129	-0½	41.9	-29	Mas Estanyet, Fitor-Fonteta (122)
128	*	41.9	-28	Revols de Torrent, S. Clement de Peralta (112)
137	-0½	42.0	-34	Cementiri dels Moros, Torrent (111)
138	*	42.0	-34	Clot de la Tina, S. Pol-La Bisbal (126)
144	0	41.9	-37½	Cova d'en Daina, Romanyà de la Selva (134)
148	0	41.9	-39½	Serra de Cals, Fitor-Fonteta (115)
148	*	41.9	-39½	Dr Pericot, Fitor-Fonteta (118)
154	-0½	41.9	-43	Montagut, Palamós (128)
158	*	41.9	-44½	Vinya Gran, Fitor-Fonteta (121)
168	*	41.9	-46½	En Botey, Fitor-Fonteta (123)
181	0	41.9	-48½	Tres Cairers, Fitor-Fonteta (114)
183	*	41.9	-47½	Taula dels Tres Pagesos, Fitor-Fonteta (125)

*Alt. assumed to be +1° (az. measured by J. Tarrús).
Numbers according to J. Tarrús and J. Chinchilla, *Els monuments megalítics* (Girona, 1992).

CN: Cabana del Moro. Tombs are in Spain unless otherwise stated.

*Taken from J. P. O'Reilly, "On the orientation of certain dolmens recently discovered in Catalonia", *Proceedings of the Royal Irish Academy*, 3rd ser., iii (1893-96), 573-9.

7.7. Orientations of 10 Catalan galleries near Barcelona.

Az. °	Alt. °	Lat. °	Dec. °	Tomb
91	0	41.9	-1	Collet de Su, Riner
115	2	41.4	-17½	Mas Pla, Querol-Valldossera
118	-1	41.8	-22	Tomba dels Moros, Llanera
124	2	41.6	-23½	Les Maioles, Rubio, Añoia
134	2	41.8	-30	La Pera d'Ardèvol, Pinos
140	3	41.6	-32½	Can Gol, La Roca del Vallès/Mataró
157	1	42.0	-42½	Puig Ses Lloses, Folgarolas
174	2½	42.0	-45½	Puig Ses Pedres, Santa Marcia de Corcó
225	12	41.6	-22½	La Roca d'en Toni, St Geius de Vilasar/Mataró
270c	1	41.6	-0½	Pedra Arca, Llinars del Vallès/Mataró

Chapter 8. Tombs of the French Causses

Azimuths in Tables 8.1 to 8.10 were measured by Y. Chevalier ("Orientations of 935 dolmens of southern France", *AA*, no. 24 (1999), S47–82), J. Clottes ("Inventaire des mégalithes de France: Lot", supplement 1/5 (1977) to *Gallia préhistoire*), and J. Clottes and Cl. Maurand ("Inventaire des mégalithes de France: Aveyron. L'Ouest aveyronnais: Causses de Limogne et de Villeneuve", supplement 1/7 (1983) to *Gallia préhistoire*). For the calculation of declination an altitude of 2° has been assumed. Except for Ardèche and Gard, a single latitude has been adopted for all the tombs of a given *département*: 44° for Tarn, Tarn-et-Garonne and Haute-Garonne; $44\frac{1}{2}^\circ$ for Aveyron, Lot and Lozère; 45° for Dordogne; $45\frac{1}{2}^\circ$ for Charente, Charente-Maritime and Corrèze; 46° for Creuse and Haute-Vienne; and $46\frac{1}{2}^\circ$ for Deux-Sèvres and Vienne.

8.1. Orientations of 18 simple C-dolmens, and 5 C-dolmens with vestibule, of western *départements*.

Az. °	Dec. °	Tomb	Az. °	Dec. °	Tomb			
<i>Simple dolmens</i>								
74	+12	Combe-Fosse, Jugeals-Nazareth (Co)	122	-20	La Chassagne, St-Cernin-de-Larche (Co)			
77	+10	La Ramière, Noailhac (Co)	128	-24	Brioux, Payré (V)			
78	+10	Rochesseux, Aubazine (Co)	129	-25	Chez Vinaigre, Ronsenac (Ch)			
80	+8	Fontourcy, Beynat (Co)	147	-35	La Route-Vieille, Noailles (Co)			
87	+3	La Borderie, Altiliac (Co)	151	-36	Mourioux 1, Mourioux (Cr)			
87	+3	La Villedieu, Magnac-Bourg (HV)	158	-38	La Reynex, La Croisille (HV)			
88	+3	Bonarme, St-Pardoux-et-Vielvic (D)	<i>Dolmens with vestibule</i>					
89	+2	La Côte, St-Laurent-sur-Gorre (HV)	12	+45	Vaure, Miallet (D)			
93	-1	La Palein, St-Cernin-de-Larche (Co)	138	-30	L'Étang, Dignac (Ch)			
101	-6	Ménardeix, Pionnat (Cr)	141	-32	Chantegrel, St-Chamassy (D)			
112	-14	La Brande, Dirac (Ch)	144	-33	La Gélie, Édon (Ch)			
119	-18	Le Busserais, La Bussière (V)	154	-38	La Jolinie, St-Jory-de-Chalais (D)			

Ch: Charente; Co: Corrèze; Cr: Creuse; D: Dordogne; HV: Haute-Vienne; V: Vienne

8.2(a). Numbers of simple C-dolmens with given orientations, from among the 352 simple C-dolmens of Lot whose orientations are listed by Clottes in his inventory. Corresponding declinations are within brackets, while within parentheses are the numbers assigned to the dolmens in Clottes's inventory.

10° [+46°]: 1 (270)	63° [+20°]: 1 (506)
14° [+45°]: 1 (81)	64° [+19°]: 8 (26, 62, 76, 80, 273, 280, 421, 500)
22° [+43°]: 1 (403)	66° [+18°]: 2 (163, 279)
25° [+42°]: 1 (511)	67° [+17°]: 4 (219, 287, 466, 563)
29° [+40°]: 1 (88)	68° [+17°]: 3 (6, 248, 559)
35° [+37°]: 1 (36)	69° [+16°]: 3 (57, 354, 548)
36° [+37°]: 1 (556)	70° [+15°]: 1 (350)
40° [+35°]: 4 (77, 206, 366, 484)	71° [+15°]: 2 (32, 160)
41° [+34°]: 1 (243)	72° [+14°]: 3 (213, 262, 407)
44° [+32°]: 1 (161)	73° [+13°]: 2 (63, 187)
45° [+32°]: 1 (294)	74° [+13°]: 4 (235, 310, 353, 565)
46° [+31°]: 1 (125)	75° [+12°]: 1 (261)
47° [+30°]: 1 (490)	76° [+11°]: 3 (317, 362, 529)
50° [+29°]: 1 (23)	77° [+10°]: 1 (525)
51° [+28°]: 1 (344)	78° [+9°]: 3 (35, 37, 113)
52° [+27°]: 1 (51)	79° [+9°]: 2 (169, 250)
53° [+27°]: 1 (504)	80° [+8°]: 1 (293)
54° [+26°]: 1 (495)	81° [+8°]: 1 (553)
55° [+25°]: 1 (459)	82° [+7°]: 2 (156, 234)
56° [+25°]: 1 (257)	84° [+5°]: 5 (116, 227, 304, 379, 487)
58° [+23°]: 1 (217)	85° [+5°]: 1 (241)
60° [+22°]: 1 (40)	86° [+4°]: 2 (20, 64)
61° [+21°]: 2 (444, 507)	87° [+3°]: 1 (315)
62° [+21°]: 2 (308, 434)	88° [+3°]: 2 (66, 228)

Table 8.2(a) continued]

89° [+2°]: 5 (135, 190, 255, 417, 431)	121° [-20°]: 3 (165, 218, 423)
90° [+1°]: 4 (202, 398, 415, 460)	124° [-22°]: 6 (11, 105, 173, 300, 336, 420)
91° [0°]: 2 (3, 327)	125° [-23°]: 3 (311, 437, 464)
92° [0°]: 5 (53, 167, 197, 305, 316)	127° [-24°]: 3 (33, 299, 384)
93° [-1°]: 3 (74, 208, 307)	128° [-25°]: 1 (486)
94° [-2°]: 10 (25, 72, 168, 188, 309, 388, 400, 430, 481, 502)	129° [-25°]: 1 (530)
95° [-2°]: 2 (285, 318)	130° [-26°]: 3 (145, 445, 494)
96° [-3°]: 6 (13, 118, 230, 523, 539, 550)	131° [-27°]: 1 (406)
97° [-4°]: 5 (4, 282, 340, 425, 569)	133° [-28°]: 2 (56, 363)
98° [-4°]: 4 (59, 251, 348, 438)	134° [-28°]: 6 (12, 16, 211, 331, 335, 359)
99° [-5°]: 15 (22, 46, 67, 73, 114, 249, 256, 263, 314, 347, 351, 377, 385, 465, 478)	135° [-29°]: 1 (271)
100° [-6°]: 6 (158, 198, 265, 352, 399, 469)	136° [-29°]: 1 (85)
101° [-7°]: 6 (129, 236, 268, 345, 493, 522)	139° [-31°]: 5 (92, 164, 229, 233, 564)
102° [-7°]: 8 (44, 127, 260, 295, 435, 436, 443, 561)	140° [-32°]: 2 (128, 364)
103° [-8°]: 4 (136, 275, 419, 440)	142° [-33°]: 2 (278, 560)
104° [-9°]: 12 (28, 55, 98, 200, 276, 306, 328, 346, 365, 447, 501, 524)	144° [-34°]: 3 (172, 242, 247)
105° [-9°]: 6 (175, 209, 290, 333, 424, 534)	145° [-34°]: 1 (126)
106° [-10°]: 7 (139, 195, 301, 339, 396, 482, 527)	146° [-35°]: 3 (50, 212, 245)
107° [-11°]: 4 (90, 99, 193, 225)	147° [-35°]: 1 (18)
108° [-12°]: 2 (189, 269)	148° [-36°]: 2 (95, 122)
109° [-12°]: 13 (101, 117, 191, 194, 267, 274, 357, 441, 449, 470, 477, 485, 544)	149° [-36°]: 3 (246, 492, 520)
110° [-13°]: 9 (82, 96, 120, 210, 360, 381, 428, 471, 475)	151° [-37°]: 2 (54, 91)
111° [-14°]: 8 (27, 253, 325, 358, 414, 461, 532, 533)	152° [-37°]: 1 (84)
112° [-14°]: 9 (111, 133, 157, 207, 303, 343, 361, 380, 519)	154° [-38°]: 5 (1, 34, 103, 171, 284)
113° [-15°]: 1 (61)	155° [-39°]: 2 (324, 332)
114° [-16°]: 9 (17, 24, 150, 222, 224, 297, 323, 416, 458)	157° [-39°]: 1 (439)
115° [-16°]: 8 (93, 119, 181, 258, 292, 397, 408, 476)	160° [-40°]: 2 (185, 570)
116° [-17°]: 4 (322, 373, 386, 468)	163° [-41°]: 1 (159)
117° [-18°]: 6 (97, 146, 221, 289, 392, 395)	174° [-43°]: 1 (455)
118° [-18°]: 3 (71, 108, 480)	177° [-44°]: 1 (94)
119° [-19°]: 5 (48, 298, 467, 503, 537)	182° [-44°]: 1 (514)
120° [-20°]: 1 (296)	183° [-44°]: 1 (491)
	184° [-44°]: 1 (456)
	192° [-43°]: 1 (131)

8.2(b). Orientations of 39 C-dolmens with vestibule of Lot.

Az. °	Dec. °	Tomb	Az. °	Dec. °	Tomb
4	+47	Touron, Lavercantière	84	+5	Lei Barto, Béduer
34	+38	Noutari 1, Carennac	90	+1	Gabaudet 1, Issendolus
36	+37	Marsigaillet 2, Laramière	93	-1	Barthès 2, Floirac
51	+28	Le Pech d'Arsou, Corn	94	-2	La Rue, Rocamadour
64	+19	Cloup de Coutze, Béduer	95°	-2	La Pélasse, Montvalent
70°	+15	Grézelade 3, Lanzac	99	-5	Les Escurettes, Padirac
72°	+14	Le Moulin 1, Reilhac	99	-5	Le Terrou, Gramat
74	+13	Pierre Levée de la Pannonie, Rocamadour	99	-5	Barrade, Montvalent
77	+10	La Borie du Bois 2, Laramière	102	-7	Le Pech de Tibouyé 3, Cabrerets
78	+10	Le Pech 1, Alvignac	102	-7	Le Pech de Goubières 1, Rocamadour
80°	+8	Bartassou, Serignac	104	-9	Le Pech de Molinié 2, Larroque-Toirac
81	+8	Cambajou 1, Montfaucon	108°	-12	Le Pech de la Barre, Cabrerets

Table 8.2(b) continued]

Az.	Dec.	Tomb	Az.	Dec.	Tomb
°	°		°	°	
109	-12	Barthès 1, Floirac	124	-22	Barrières 3, Miers
109	-12	Pradines, Cadrieu	127	-24	La Baune, Les Junies
109	-12	Bougoulat, Padirac	131*	-27	Boygues Basse, Carlucet
111	-14	Le Puech Roussille, Béduer	131	-27	Pech Plumé, Loubressac
114*	-16	Butte-St-Simon, Belfort-du-Quercy	143	-33	Les Escabasses 2, Flaujac-Gare
120	-20	Le Pech 4, Alvignac	161	-41	Pourquayré, Marcilhac-sur-Célé
122	-21	Les Junies, Quetty	166	-42	Les Mazuquarts, Flaujac-Gare
124	-22	Le Pech de la Curado, Carayac			

*From the inventory by Clottes.

8.3. Orientations of 121 simple C-dolmens, and 8 dolmens with vestibule, of Aveyron.

Az.	Dec.	Tomb	Az.	Dec.	Tomb
°	°		°	°	
<i>Simple dolmens</i>					
27*	+41	Puech du Dougnou, Ols-et-Rinhodes	84*	+5	Bois de Galtier, Martiel
28*	+41	Devès des Gleyettes 2, Martiel	84	+5	?, Mostuéjouls
32*	+39	Puech Mort 1, Martiel	84	+5	Auriac, St-Rome-de-?
34*	+38	Puech Mort 2, Martiel	85*	+5	Les Places 3, Foissac
35	+37	Randelle, Verrières	85*	+5	Puech de la Pruneyrie, Martiel
35	+37	Le Bouissou, Agen d'Aveyron	86*	+4	Le Pet 2, Ambeyrac
40*	+35	Tombeau des Anglais, Causse-et-Diège	86	+4	Larquinel, Verrières
47*	+30	Le Causse, Villeneuve	86	+4	Combe Croise, La Cavalerie
47*	+30	Le Devès 3, Martiel	87*	+3	Le Pet 3, Ambeyrac
50*	+29	Tombeau des Anglais, Martiel	88*	+3	Tombe de l'Homme, Villeneuve
56*	+25	Glèbes, La Capelle-Balaguier	88	+3	La Plaine, St-André-de-Vézines
56*	+25	Le Devès 1, Martiel	88	+3	La Borie Blanque, St-Rome-de-Tarn
59*	+23	Pouzets, La Capelle-Balaguier	90*	+1	Barthas de Bouillac, Martiel
60*	+22	Jonade 1, Foissac	90*	+1	Le Rey, Villeneuve
63	+20	Le Serre de Cabrié, St-André-de-Vézines	90*	+1	Les Garrigues 1, Foissac
63*	+20	Bois del Rey 2, Martiel	90*	+1	Tombeau des Géants, Villeneuve
65*	+19	Les Rousiès 1, Martiel	91*	0	Puech de Saint-Clair, Martiel
66*	+18	Puech Youles 4, Ols-et-Rinhodes	92*	0	Les Garrigues 2, Foissac
67*	+17	Les Aumières 1, Ambeyrac	92*	0	Puech Redon, Martiel
67*	+17	Puech de la Guise, Ols-et-Rinhodes	93*	-1	Cap de Saint-Marty 1, Balaguier-d'Olt
68*	+17	Causse du Prunier, Martiel	93	-1	Bouygues 1, Saujac
70*	+15	Jonade 2, Foissac	94*	-2	Cloup de Rhines, Foissac
71	+15	Surgères 3, Gaillac d'Aveyron	94*	-2	Souloumbradou, Martiel
71	+15	Tiergues, St-Affrique	95*	-2	Le Trep, Ols-et-Rinhodes
72*	+14	La Viguerie, Salles-Courbatiès	95*	-2	Puech Youles 5, Ols-et-Rinhodes
75*	+12	Champs Grands, Martiel	96*	-3	Puech Youles 6, Ols-et-Rinhodes
75*	+12	Puech Youles 2, Ols-et-Rinhodes,	96	-3	Combets 1, Millau
75	+12	Caramel, Salles-la-Source	96	-3	Espeyroux 2, Muret-le-Château
77	+10	Crassous, St-Affrique	96	-3	Laumière, St-Rome-de-Cernon
77*	+10	Bois Barrat, Ols-et-Rinhodes	97	-4	Labro 3, St-Georges-de-Luzençon
79	+9	La Fabière, La Cavalerie	97	-4	Espeyroux 4, Muret-le-Château
80*	+8	Puech d'Ols, Ols-et-Rinhodes	100*	-6	Truffières 1, Vailhourles
81*	+8	Combemousseuse, La Capelle-Balaguier	100	-6	Buzeins 1, Buzeins
82*	+7	Croufel, La Capelle-Balaguier	101*	-7	Le Cayre, Ols-et-Rinhodes
83*	+6	Le Causse 2, Villeneuve	101*	-7	Puech Mauriol, Ambeyrac
83*	+6	Puech Youles 1, Ols-et-Rinhodes	102*	-7	Igues, Saujac
			102*	-7	Les Agars 1, Ols-et-Rinhodes

Table 8.3 continued]

Az. °	Dec. °	Tomb	Az. °	Dec. °	Tomb
102*	-7	Truffières 2, Vailhourles	120	-20	Bouygues, Saujac
102	-7	Boussac E, St-Affrique	120*	-20	La Bouissière, Balaguier d'Olt
102	-7	Labro 1, St-Georges-de-Luzençon	122	-21	Pérignagol, Balsac
105*	-9	Bois d'Alary, Balaguier d'Olt	122	-21	La Liquisse, Nant
105*	-9	Cap de Saint-Marty 2, Balaguier d'Olt	123	-22	Nissac Sud, Versols-et-Lapeyre
105*	-9	Estrabols, Saujac	124*	-22	Devès des Gleyettes 1, Martiel
105*	-9	Les Aumières 2, Ambeyrac	125	-23	Duéjouls, Millau
105*	-9	Pré Carré 2, Monteils	127	-24	Lavernhe, Lestrade-et-Thouels
107	-11	Le Puech Gros, Rodelle	131	-27	Montaubert 1, Salles-la-Source
108*	-12	Le Devès 2, Martiel	131	-27	Commune 3, Vimènet
109*	-12	Le Pet 1, Ambeyrac	132*	-27	Combe del Mas, Balaguier d'Olt
109*	-12	Marie-Gaillard, Martiel	140*	-32	L'Homme Mort, Montsalès
109	-12	St Antonin, Salles-la-Source	145	-34	Géonade Ouest, Foissac
110	-13	Boussac Ouest, St-Affrique	145*	-34	Les Places 1, Foissac
110*	-13	Le Couderc, Foissac	145*	-34	Mas de Rénailhac, Balaguier d'Olt
111	-14	Buzeins 2, Buzeins	149	-36	Montaubert 2, Salles-la-Source
113*	-15	Cloup de Coubèles, Salvagnac-Cajarc	153	-38	La Vayssière 4, Salles-la-Source
113*	-15	Puech Youles 3, Ols-et-Rinhodes	165	-42	La Glène, St Léons
113	-15	Puechamp 6, Salles-la-Source	180*	-44	Le Causse Blanc, Capdenac-Gare
113	-15	Espeyroux 5, Muret-le-Château			
113	-15	Mas Rouquois, Salles-Curan			
115	-16	Lissalinie 1, Valady			
115*	-16	Bois del Rey 1, Martiel			
115*	-16	Les Agars 2, Old-et-Rinhodes			
115*	-16	Rosier 1, Martiel			
116	-17	La Borie Blanque, St-Rome-de-Tarn			
117*	-18	Pré Carré 1, Monteils			
119	-19	Le Pech de la Guise, La Capelle-Balaguier			
120	-20	Capdenaget, Balsac			

*From the inventory of Clottes and Maurand.

8.4. Orientations of 16 simple C-dolmens of Tarn-et-Garonne.

Az. °	Dec. °	Tomb
61	+22	La Veyrie 2, St-Antonin-Noble-Val
70	+15	Le Bosc, St-Antonin-Noble-Val
79	+9	Crabole 1, St-Projet
79	+9	Crabole 2, St-Projet
85	+5	Charles, Septfonds
86	+4	Le Pech, Bruniquel
87	+3	Finelles 1, Septfonds
90	+1	Finelles 3, Septfonds
92	0	Pécoupet, St-Antonin-Noble-Val
93	-1	Le Pech 10, Bruniquel
108	-12	La Veyrie 1, St-Antonin-Noble-Val
110	-13	Bartalbenque Ouest, Septfonds
113	-15	Le Pech 3, Bruniquel
125	-23	Le Pech 2, Bruniquel
128	-25	Le Pech d'Ax, St-Antonin-Noble-Val
141	-33	? Lauzerte

8.5. Orientations of 13 simple C-dolmens, and 1 C-dolmen with vestibule, of Tarn.

Az. °	Dec. °	Tomb
<i>Simple dolmens</i>		
17	+45	Nougayrol, Trévien
60	+22	Peyro-Lebado, Crespin
76	+11	Gouty, Valderiès
88	+3	Suquet, Penne
116	-17	St-Paul, Ste-Cécile-du-Cayrou
122	-21	La Farge, St-Beauzile
123	-22	Le Pech, Milhars
135	-29	Cabanes, St-Beauzile
140	-32	Peyralade, Vaour
152	-38	Peyro-Lebado, Le Verdier
164	-42	Plo de la Gante, Labastide-Rouairoux
175	-44	Rivet 2, Marnaves
185	-44	Rivet 1, Marnaves
<i>Dolmen with vestibule</i>		
108	-12	Cayrou de L'Empiri, Alos

8.6. Orientations of 23 simple C-dolmens, and 1 C-dolmen with vestibule, of Lozère.

Az. °	Dec. °	Tomb	Az. °	Dec. °	Tomb
<i>Simple dolmens</i>					
64	+19	La Condamine, Montbrun	102	-7	Valbelle, Florac
68	+17	Téoulets, Ste-Énimie	104	-9	Combe-Lébrouze, Montbrun
76	+11	Drigas 2, Hures-la-Parade	106	-10	Recoules de l'Hom, Le Massegros
76	+11	Les Ayguières, Chanac	112	-14	Costeguison, Meyrueis
82	+7	Aurès, Gabuizières	122	-21	Les Avens, Hures-la-Parade
84	+5	Le Frayssé, Salles-Prunet	124	-22	Gd Dolmen Aurès, Gatuzières
86	+4	Le Féron, Le Born	126	-23	La Rouvière 3, Chanac
88	+3	La Bastide, Florac	130	-26	Casteviel, Ste-Croix-Vallée-Française
90	+1	Cerrières, Hures-la-Parade	138	-31	La Pierre Plate, Florac
96	-3	Drigas 1, Hures-la-Parade	156	-39	Les Bastides, St-Pierre-des-Tripiers
96	-3	? Chirac			
100	-6	Royde, Chanac			
100	-6	La Galline, Banassac			
<i>Dolmen with vestibule</i>					
120	-20	La Prade, Allenc			

8.7. Orientations of 66 simple C-dolmens and 5 C-dolmens with vestibule, in Ardèche (A) and Gard (G).

Az. °	Lat. °	Dec. °	Tomb	Az. °	Lat. °	Dec. °	Tomb
<i>Simple dolmens</i>							
81	44.3	+7½	Les Conchettes, St-Paul-le-Jeune (A)	146	44.4	-35	D—, Chandolas(?) de-St-Alban (A)
84	44.4	+5½	Brahic 1, Brahic (A)	147	44.3	-35½	Combe de Blanc 3, St-Paul-le-Jeune (A)
88	44.5	+2½	Chapias 1, Rosières (A)	149	44.4	-36½	Fontrouine 4, Gospierres (A)
90	44.3	+1	Mas de Baume 2, St-André-de-Cruzières (A)	151	44.5	-37	Les Clausasses 4, Gras (A)
92	44.3	0	La Gautière 2, Aiguèze (G)	152	44.4	-37½	Grange de Chevallier 1, Gospierres (A)
93	44.4	-1	Beauregard, St-Remèze (A)	154	44.3	-38½	Les Oeillantes 1, Barjac (G)
95	44.3	-2½	Pin d'Ismaël 4, Courry (G)	156	44.6	-39	Les Faysses, Vesseaux (A)
96	44.4	-3	L'Abeille 1, Labeaume (A)	157	44.9	-39	Échamps, Borié (A)
100	44.3	-6	Mas de Baume 1, St-André-de-Cruzières (A)	158	44.5	-40	Le Queiré, Vinezac (A)
103	44.5	-8	La Grange aux Pères, Lablachère (A)	162	44.5	-41	Les Traverses 1, Chauzon (A)
106	44.5	-10	Flandrin A, Lablachère (A)	163	44.3	-41½	La Calade 2, Barjac (G)
107	44.4	-11	Bourbouillet 2, St-Alban-sur-Sampzon (A)	167	44.3	-42½	Bois du Garn, Le Garn (G)
111	44.3	-13½	Les Conchettes 2, St-Paul-le-Jeune (A)	168	44.4	-42½	Bourbouillet 3, St-Alban-sur-Sampzon (A)
114	44.3	-15½	Pin d'Ismaël 3, Courry (G)	171	44.3	-43½	Les Peyrolles 1, St-André-de-Cruzières (A)
116	44.5	-17	Rieutort, Chauzon (A)	172	44.5	-43½	Flandrin 10, Lablachère (A)
117	44.5	-17½	Les Molasses 2, Chauzon (A)	173	44.4	-43½	Les Granges 17, Berrias-et-Casteljau (A)
117	44.5	-17½	Les Molasses 4, Chauzon (A)	173	44.3	-43½	Les Peyrolles 2, St-André-de-Cruzières (A)
121	45.0	-20	Le Chabot, Colombier-le-Jeune (A)	175	44.4	-43½	Champvermeil, Bidon (A)
123	44.4	-21½	Grange de Chevallier 2, Gospierres (A)	176	44.4	-44	Ranc d'Aven 2, Chandolas (A)
124	44.4	-22	Gabiane, Labeaume (A)	176	44.5	-43½	Flandrin D, Lablachère (A)
126	44.5	-23½	Dolmen 2, Chauzon (A)	176	44.5	-43½	La Piole, Lablachère (A)
132	44.4?	-27	Généralques, ?	176	44.4	-44	? Brahic (A)
133	44.4	-28	Gour de l'Estang, Chandolas (A)	176	44.5	-43½	Clos Lorion, Rosières (A)
136	44.3	-29½	Les Bouïssières, St-Paul-le-Jeune (A)	179	44.4	-44	Les Géantes 2, Bourg-St-Andéol (A)
136*	44.4	-31½	Les Géantes B, Bourg-St-Andéol (A)	184	44.4	-44	Serre de Bernard, Chandolas (A)
137	44.4?	-30	Balaizuc, ?	186	44.4	-43½	Combe de Lèque, St-Alban-sur-Sampzon (A)
138	44.5	-30½	Flandrin B, Lablachère (A)	187	44.4	-43½	Ranc d'Aven 1, Chandolas (A)
140	44.5	-31½	Flandrin 11, Lablachère (A)	189	44.4	-43	Grange de Boisson 2, Gospierres (A)
141	44.5	-32	Méandre de Gen, Ruoms (A)	191	44.5	-43	Flandrin C, Lablachère (A)
143	44.3	-34	La Calade 3, Barjac (G)	192	44.3	-43	Gaytière, Le Garn (G)
				196	44.3	-42	Les Oeillantes 2, Barjac (G)

Table 8.7 continued]

Az. °	Lat. °	Dec. °	Tomb
211	44.4	-36½	Combe de Bonne Fille, Gros pierres (A)
217	44.4	-33½	Grange de Boisson 1, Gros pierres (A)
221	44.3	-31½	Les Buissières 2, St-Paul-le-Jeune (A)
222*	44.4	-32½	Les Géantes A, Bourg-St-Andéol (A)
229	44.4	-26½	Bourbouillet 1, St-Alban-sur-Sampzon (A)

Dolmens with vestibule

120	44.2	-19½	La Caporie 1, Méjeannes-le-Clap (G)
132	44.3	-27½	La Bartre, Laval-St-Roman (G)
172	44.3	-43½	Les Chaumettes, St-André-de-Cruzières (A)
192*	44.4	-45	Les Géants 3, Bourg-St-Andéol (A)
215	44.3	-34½	La Devèze, Barjac (G)

*Alt. 0°; az. measured by author.

8.9. Orientations of 27 C-dolmens with coudé corridors. First col.: az. of corridor, as listed by Chevalier; second col: az. of chamber, as listed by Clottes or as measured from a site plan of Chevalier.

Az. (i) °	Az. (ii) °	Tomb
10	'east'	Champerboux, Ste-Énimie (Lz)
83	15	Cérès, Salles-la-Source (Av)
114		L'Aumède-Haut, Chanac (Lz)
136		Changefège 2, Balsièges (Lz)
138	83	Gd Dolmen de Rouvière, Chanac (Lz)
139	54	Les Cloups, Ginouillac (Lt)
144	64	Changefège 1, Balsièges (Lz)
146	83	La Marconnière 1, St Saturnin-de-Lucian (Lz)
147	62	Griffié, St-Jean-de-Laur (Lt)
150		Montplaisir, Chenon (Ch)
91		Le Pech 6, Alvignac (Lt)
155	100	Séveyrac, Bozouls (Av)
156	92	Le Mt-Roubio, Ste Énimie (Lz)
157		Trinquier, Salles-la-Source (Av)
158		Lanas C, Lanas (A)
163	89	Les Escabasses 1, Flaujac-Gare (Lt)
173	102	Pérignac 2, Salles-la-Source (Av)
176	104	Poujoulet 1, Montrodat (Lz)
176	109	Aumède-Bas 3, Chanac (Lz)
176	108	Gouziac S, Hures (Lz)
109		Surges, Thedirac (Lt)
177	110	Les Crozes 1, La Loubière (Av)
181	90	Véziniès 3, Salles-la-Source (Av)
184		La Nogarède, Chanac (Lz)
184	104	Gd Dolmen du Chardonnet, Auxillac (Lz)
186	116	Rouvière 2, Chanac (Lz)
134		Causse de Bullac 2, Boussac (Lt)

A: Ardèche; Av: Aveyron; Ch: Charente; Lt: Lot; Lz: Lozère.

8.8. See following page.

8.10. Orientations of 44 Angoumoisin-type dolmens.

Az. °	Dec. °	Tomb
16	+44	La Petite Pérotte, Fontenille (Ch)
39	+34	Dolmen F, Bougon (DS)
62	+20	La Pierre Pèse, Limalonges (DS)
63	+20	La Motte de la Garde, Luxé (Ch)
65	+18	La Maison de la Vieille, Luxé (Ch)
67	+17	Russel 2, Limalonges (DS)
81	+8	La Case du Loup, St-Léon-d'Issigeac (D)
85	+5	Les Lisières A, Pamproux (DS)
89	+2	La Combe, Champniers (Ch)
91	+1	Villaigue A, St-Martin-l'Ars (V)
92	0	Laverré, Aslonnes (V)
97	-4	La Pierre Fouqueurée, Ardillières (CM)
98	-4	La Folatière, Luxé (Ch)
100	-6	Dolmen A6, Chenon (Ch)
102	-7	La Bassettière, Sillars (V)
103	-8	La Pierre Mouilleron, Nieul-sur-l'Autize (Ve)
106	-10	La Grelaudière, Verteuil (Ch)
112	-14	Arlait B, Château-Larcher (V)
114	-15	La Boixe G, Vervant (Ch)
126	-23	Les Roches, Chenon (Ch)
130	-25	La Grosse Pérotte, Fontenille (Ch)
132	-27	La Graube 2, L'Éguille (CM)
134	-28	La Pierre Levée, St-Même-les-Carrières (Ch)
139	-31	La Pierre Levée, St-Fort-sur-le-Né (Ch)
140	-31	La Boixe B, Vervant (Ch)
142	-32	La Lombertie, Édon (Ch)
145	-34	Le Gros Dognon, Ligné (Ch)
150	-36	La Boucharderie, St-Estèphe (Ch)
152	-37	La Peyrelevade, Paussac-St-Vivien (D)
155	-38	Dolmen A, Fouqueure (Ch)
155	-38	Dolmen B, Fouqueure (Ch)
156	-38	La Pierre Levée, Ardillières (CM)
159	-39	La Saussaye 1, Soubise (CM)
160	-40	Montplaisir, Chenon (Ch)
171	-42	La Pierre Levée 1, Chenon (Ch)
171	-42	La Pierre Levée 2, Chenon (Ch)
172	-41	Puynard, Somnières (V)
172	-42	La Motte de la Jacquille, Fontenille (Ch)
173	-42	La Pierrefitte, St-Georges (Ch)
180	-43	Châteauroux, Tonnay-Charente (CM)
194	-41	La Saussaye 2, Soubise (CM)
198	-39	Dolmen A, Bougon (DS)
281	+9	Dolmen C, Bougon (DS)
289	+15	Le Blanc, Beaumont (D)

Ch: Charente; CM: Charente-Maritime; D: Dordogne;
DS: Deux-Sèvres; V: Vienne; Ve: Vendée.

8.8. Orientations of 11 double Cdolmens of Lot.

Az. °	Tomb	Az. °	Tomb
35/27	Le Verdier 1, Cajarc	108	Les Claouzelles, Padirac
92	Les Combarols, Durbans	108/108	Escazals, Durbans
93	Champ de Palabre, Mas de Brézac, Boussac	117	Borie Grand, Durbans
98	Bois des Garroustes, Serignac	118	La Péchette, Montfaucon
104/104	Pech de Grammont, Gramat	142	Les Ignes de Magnagues, Carennac
108/113	Pech Plumé 2, Loubressac		

Chapter 9. Tombs of Provence and East Languedoc

9.1. Orientations of the 4 Fontvieille dolmenic hypogea (lat. 43.7°).

Az. °	Alt. °	Dec. °	Tomb	Az. °	Alt. °	Dec. °	Tomb
259	0	-8½	La Source	267	0	-2½	Bounias
262	0	-6	Le Castellet	270	0	-0½	Épée de Roland (Les Cordes)

9.2. Orientations of 84 BR-dolmens in Provence.

Az. °	Alt. °	Lat. °	Dec. °	Tomb	Az. °	Alt. °	Lat. °	Dec. °	Tomb
<i>Long-chambered dolmens of western Provence</i>									
(i) The Alpilles Group (including Fontvieille)									
(ii) The North Luberon Group									
(iii) The Bassin d'Aix Group									
246	*	43.8	-16	Les Gavots, Orgon (BR)	241	*	43.6	-19½	Cudières 2, Jouques (BR)
256	*	43.7	-9	Le Roucas de l'Eure, Aureille (BR)	248	*	43.5	-13	La Blaque, Aix-en-Provence (BR)
266	0	43.7	-3½	Contignargues, Fontvieille (BR)	250	*	43.6	-14½	Cudières 1, Jouques (BR)
268	0	43.7	-2	Mas d'Argard, Fontvieille (BR)	259	*	43.5	-7	Château Blanc, Ventabren (BR)
287	0	43.7	+12	La Méridole, Fontvieille (BR)	268	*	43.6	-0½	La Plaine, Meyrargues (BR)
					286	0	43.5	+11	Maureil, St-Antonin-sur-Bayon (BR)
(iv) The Maures Group									
234	7	43.8	-20	La Picchone, Ménérbes (Vcl)	221	*	43.1	-33½	Gorteaubry, La-Londe-Les-Maures (V)
252	24	43.8	+4½	L'Ubac, Goult (Vcl)	223	*	43.1	-32	Maubelle, La Crau d'Hières (V)
					256	*	43.2	-17½	Les Antiquailles, Cuers (V)

Table 9.2 continued]

Az. °	Alt. °	Lat. °	Dec. °	Tomb	Az. °	Alt. °	Lat. °	Dec. °	Tomb
<i>Square-chambered dolmens of eastern Provence</i>									
206	*	43.9	-38 $\frac{1}{2}$	Les Pierres Blanches, Castellane (AHP)	256	*	43.6	-9	La Pierre de la Fé, Draguignan (V)
206	*	43.7	-39	La Brainée, Mons (V)	256	*	43.6	-9	La Verrerie Vieille, Tourrettes (V)
206	*	43.6	-39	Bassegat, Fox-Amphoux (V)	256	*	43.4	-9	La Gaillarde, Roquebrune-sur-Argens (V)
221	*	43.9	-31 $\frac{1}{2}$	Villeveyelle, Demandolx (AHP)	256	*	43.4	-9	Le Jas de Parete, Vidauban (V)
221	*	43.7	-31 $\frac{1}{2}$	Le Serre-Dinguille, St-Cézaire-sur-Siagne (AM)	256	*	43.3	-9	St-Sébastien 2, Plan-de-la-Tour (V)
221	*	43.7	-31 $\frac{1}{2}$	Les Clapières St-Cézaire-sur-Siagne (AM)	256	*	43.4	-9	Pont Neuf, Cabasse (V)
221	*	43.7	-31 $\frac{1}{2}$	Bernard, St-Cézaire-sur-Siagne (AM)	256	*	43.4	-9	La Gastée, Cabasse (V)
221	*	43.2	-32	La Briande, Ramatuelle (V)	256	*	43.7	-9	Mauvans Sud, St-Cézaire-sur-Siagne (AM)
221	*	43.7	-31 $\frac{1}{2}$	Pomeirat et Claudi, Cabris (AM)	256	*	43.7	-9	Les Verdolines, St-Valier-de-Thiez (AM)
222	*	43.7	-31	Clamarquier, Le Rouret (AM)	258	*	43.4	-7 $\frac{1}{2}$	Les Puades, St-Cézaire-sur-Siagne (AM)
224	*	43.7	-30	La Pignatelle, Comps (V)	259	*	43.6	-7	L'Agriotier, Roquebrune-sur-Argens (V)
226	*	43.7	-29	Les Peyraoutes, Roquefort-les-Pins (AM)	259	*	43.5	-7	La Colle, Montmeyan (V)
226	*	43.7	-29	Pierre Haute, Chateauneuf-Grasse (AM)	260	*	43.3	-6	Beaumont, Entrecasteaux (V)
226	*	43.6	-29	La Colle, Ampus (V)	260	*	43.6	-6	La Haute-Siane, St-Maxime (V)
226	*	43.6	-29	Campracier, Tourrettes (AM)	266	*	43.5	-1 $\frac{1}{2}$	San Vas 1, Figanières (V)
231	*	43.7	-25 $\frac{1}{2}$	Le Degoutai, St-Valier-de-Thiez (AM)	266	*	43.3	-1 $\frac{1}{2}$	Roques d'Aille, Lorgues (V)
233	*	43.7	-24 $\frac{1}{2}$	Les Blaquières, Vence (AM)	266	*	43.7	-1 $\frac{1}{2}$	St-Sébastien 1, Plan-de-la-Tour (V)
236	*	43.7	-22 $\frac{1}{2}$	Stramousse, Cabris (AM)	267	*	43.3	-1	Le Cailloux, St-Valier-de-Thiez (AM)
239	*	43.6	-20 $\frac{1}{2}$	Maren, Ampus (V)	267	*	43.7	-1	Les Lions, Grimaud (V)
239	*	43.5	-20 $\frac{1}{2}$	Peïcervier, Lorgues (V)	269	*	43.7	+0 $\frac{1}{2}$	L'Appara, St-Valier-de-Thiez (AM)
239	*	43.4	-20 $\frac{1}{2}$	Canduny, Cabasse (V)	272	0	43.7	+1	Le Collaret, Baudinard (V)
241	*	43.7	-19 $\frac{1}{2}$	St-Marcellin, Mons (V)	276	*	43.7	+5 $\frac{1}{2}$	La Graou, St-Cézaire-sur-Siagne (AM)
246	*	43.4	-16	La Bouissière, Cabasse (V)	276	*	43.4	+5 $\frac{1}{2}$	Le Prignon, St-Cézaire-sur-Siagne (AM)
246	*	43.7	-16	Les Claps, Escagnolles (AM)	278	*	43.6	+7	Les Muraires 1, Le Luc (V)
246	*	43.7	-16	La Colle, Mons (V)	278	*	43.3	+7	La Colle de Roussel, Seillans (V)
251	*	43.6	-12 $\frac{1}{2}$	L'Etang, Figanières (V)	278	*	43.4	+7	Montrouge, St-Raphael (V)
251	*	43.4	-12 $\frac{1}{2}$	Les Adrets 2, Brignoles (V)	278	*	43.4	+7	Valescure, St-Raphael (V)
254	1	43.7	-11	Les Riens (or St Pierre), Mons (V)	286	*	43.7	+12 $\frac{1}{2}$	La Valbonette, St-Raphael (V)
256	*	43.7	-9	Avaye, Mons (V)	286	*	43.7	+12 $\frac{1}{2}$	Colbas 1, St-Cézaire-sur-Siagne (AM)
256	*	43.7	-9	Le Colleton, Mons (V)	289	*	43.6	+15	Colbas 2, St-Cézaire-sur-Siagne (AM)
256	*	43.7	-9	Peygros, Mons (V)	289	*	43.7	+15	La Cabre d'Or 1, Figanières (V)
256	*	43.4	-9	Les Adrets 1, Brignoles (V)					Le Deffens 1, Baudinard (V)
256	*	43.4	-9	Les Adrets 3, Brignoles (V)					
256	*	43.4	-9	Les Adrets 4, Brignoles (V)					
256	*	43.4	-9	L'Amarron, Brignoles (V)	267	*	44.4	-1	Le Villard, Le Lauzet-Ubaye (AHP)

*Az. supplied by Gérard Sauzade; alt. assumed to be 2° for the calculation of declination.
 AHP: Alpes-de-Haute-Provence; AM: Alpes-Maritimes; BR: Bouches-du-Rhône; V: Var; Vcl: Vaucluse.

9.3. Orientations of 26 BR-dolmens in eastern Languedoc.

Az.	Alt. ^o	Lat. ^o	Dec. ^o	Tomb	Az. ^o	Alt. ^o	Lat. ^o	Dec. ^o	Tomb
168	*	44.4	-42 $\frac{1}{2}$	La Tour, Géantes, Bourg-St-Andéol (A)	229	*	43.8	-27	La Matte 1, N.D.-de-Londres (H)
174	*	44.4	-43 $\frac{1}{2}$	Les Claussases 2, Gras (A)	235	0	43.6	-25	Le Pas de Gallaret, Le Pouget (H)
176	*	44.4	-44	Les Claussases 3, Gras (A)	236	*	43.7	-22 $\frac{1}{2}$	La Limite 2, Mas-de-Londres (H)
184	*	44.4	-44	Les Claussases 1, Gras (A)	240	*	43.9	-20	Le Puech Autoux, Claret (H)
201	*	44.4	-40	Les Géantes 1, Bourg-St-Andéol (A)	244	*	43.9	-17	Le Mas Neuf 2, Claret (H)
209	*	43.8	-37 $\frac{1}{2}$	Lecou, Causse-de-la-Selle (H)	247	*	43.7	-15	Soulas, Viols-le-Fort (H)
211	*	44.2	-36 $\frac{1}{2}$	Peyro-Blanco, St-Julien-les-Rosiers (G)	252	*	43.7	-11 $\frac{1}{2}$	Conquette 1, St-Martin-de-Londres (H)
212	*	43.7	-36 $\frac{1}{2}$	Bois de l'Olivier, Cazeville (H)	262	*	44.2	-4 $\frac{1}{2}$	Issirac 2, Issirac (G)
216	*	44.4	-34	Les Arendous, St-Remeze (A)	266	*	44.1	-1 $\frac{1}{2}$	Le Mas de Vialès, Cavillargues (G)
216	*	43.9	-34	Le Ginestrou, Moules-Baucels (H)	266	*	44.2	-1 $\frac{1}{2}$	Coste-Rigaudie, St-Gervais-les-Bagnols (G)
221	*	44.2	-31 $\frac{1}{2}$	Issirac 1, Issirac (G)	270	*	44.1	+1	Concouvèze, St-Laurent-la-Vernède (G)
222	0	43.9	-33	Junction D113/D513, Blandas (G)	288	*	43.5	+14	La Rouquette, St-Pargoire (H)
225	*	43.7	-29 $\frac{1}{2}$	Sauzet 1, Cazeville (H)	301	*	43.7	+23	Cambous, Viols-en-Laval (H)

*Az., as measured by Y. Chevalier; alt. assumed to be 2° for the calculation of declination.
 A: Ardèche; G: Gard; H: Hérault.

9.4. The orientations of 103 L-dolmens in east Languedoc.

Az. ^o	Alt. ^o	Lat. ^o	Dec. ^o	Tomb	Az. ^o	Alt. ^o	Lat. ^o	Dec. ^o	Tomb
108	*	43.7	-11 $\frac{1}{2}$	Le Pioch Redon 1, St-Privat-les-Salces (H)	206	*	43.7	-39	Les Isserts, St-Jean-de-la-Blaquière (H)
116	*	43.9	-17	Le Sorch de Gardie, Rogues (G)	207	*	43.7	-38 $\frac{1}{2}$	La Caisse des Morts 2, Murles (H)
162	*	43.7	-42	Cantagril, Argeliers (H)	207	*	43.8	-38 $\frac{1}{2}$	Ugias 2, St-Martin-de-Londres (H)
176	0	43.8	-46 $\frac{1}{2}$	La Prunarère 1, St-Maurice-Navacelles (H)	207	*	43.8	-38 $\frac{1}{2}$	Ugias 3, St-Martin-de-Londres (H)
176	*	43.7	-44 $\frac{1}{2}$	Le Bois de la Sourde, Arboras (H)	207	*	43.8	-38 $\frac{1}{2}$	Ugias 6, St-Martin-de-Londres (H)
180	*	43.9	-44 $\frac{1}{2}$	Pévinquieres, Cornus (AV)	208	*	43.6	-38	Mas Reinhardt 3, Vilainahiques (H)
183	*	43.8	-44 $\frac{1}{2}$	Montsalou, La Vacquerie (H)	208	0	43.7	-40	Coste-Rouge, Usclas-du-Bosc (H)
184	*	44.0	-44	La Baume-Sauchères, Sauchères (Av)	208	0	43.7	-40	Belvédère de Grandmont, Usclas-du-Bosc (H)
189	*	43.7	-44	La Croix de l'Yeuise 1, Montpeyroux (H)	212	*	43.8	-36	Le Frouzet 1, St-Martin-de-Londres (H)
189	*	43.9	-43 $\frac{1}{2}$	Le Serre-Plumat, La Couvertoirade (Av)	212	*	43.4	-36 $\frac{1}{2}$	Lacoste, Frontignan (H)
190	*	43.7	-43 $\frac{1}{2}$	Foujille, Le Puech (H)	212	*	43.7	-36 $\frac{1}{2}$	Montcalmès, Puéchabon (H)
195	*	43.7	-42 $\frac{1}{2}$	La Bruyère d'Usclas, St-Privat-les-Salces (H)	212	*	43.7	-36 $\frac{1}{2}$	Pouland 1, Puéchabon (H)
197	*	43.9	-42	Le Mont-Aymat, La Couvertoirade (AV)	212	*	43.7	-36 $\frac{1}{2}$	Frayssy 1, Puéchabon (H)
198	*	44.0	-41 $\frac{1}{2}$	La Lèque, Fressac (G)	212	*	43.7	-36 $\frac{1}{2}$	Carrière d'Espinasse, Puéchabon (H)
199	6	43.6	-37 $\frac{1}{2}$	Roudanergues, Pézenès-les-Mines (H)	212	*	43.7	-36 $\frac{1}{2}$	Le Mas de Perry, Murles (H)
202	*	43.8	-40 $\frac{1}{2}$	Le Ranquet, St-Maurice-Navacelles (H)	212	*	43.8	-36	La limite 1, Mas-de-Londres (H)
203	*	43.9	-40	La Graillhe, Campestre-er-Luc (G)	212	*	43.7	-36 $\frac{1}{2}$	Le Pigeonnier de Sallèles, Le Bosc (H)
205	*	44.1	-39	La Blachère, Lamuéjols (L)	213	*	43.8	-36	Ferrusat-Esquiroil 3, La Vacquerie (H)
					214	*	43.7	-35 $\frac{1}{2}$	Le Pioch Redon 2, St-Privat-les-Salces (H)

Table 9.4 continued]

	Az. °	Alt. °	Lat. °	Dec. °	Tomb	Az. °	Alt. °	Lat. °	Dec. °	Tomb
214	*	43.7		-35½	La Croix de l'Yenuse 2, Montpeyroux (H)	230	*	43.8	-26½	Roubiac 2, Cazevieille (H)
214	0	43.8		-37½	Coste-Caude 2, La Vacquerie (H)	231	*	43.7	-25½	Les Peyres-Carnes, Viois-en-Laval (H)
217	*	43.8		-34	Taoulia Chiesa 2, St-Martin-de-Londres (H)	232	*	43.8	-25	Montlous 1, St-Martin-de-Londres (H)
217	*	43.7		-34	La Combe du Rat, Argelliers (H)	232	*	43.9	-25	Rouciroy 2, Brissac (H)
217	*	43.8		-34	La Liqueuse (Alaquisse), Rouet (H)	232	*	43.7	-25	Fraysse 2, Puéchabon (H)
217	*	43.7		-34	La Rigoule, St-Guilhem-du-Désert (H)	234	*	43.8	-24	La Maline-Séranne, St-André-de-Bueges (H)
218	0	43.8		-35	Coste-Caude 1, La Vacquerie (H)	234	*	43.9	-23½	Le Mas-Neuf 3, Claret (H)
218	*	43.9		-33	Bouisset, Ferrières-les-Verreries (H)	236	*	43.9	-22½	Les Arques (Londres), Blandas (G)
219	*	44.1		-32½	Le Sere du Bouquet, Seynes (G)	236	*	43.8	-22½	Le Grand-Juyan de Roubiac, Cazevieille (H)
219	*	43.8		-32½	Suquier, Pégairolles-de-l'Esalette (H)	237	*	43.7	-22	Pouiland 4, Puéchabon (H)
221	*	43.7		-31½	Le Mas Courmon, Argelliers (H)	238	*	44.3	-21	Le Chamblon, Ste-Énimie (L)
222	*	43.8		-31	Cayla, St-Martin-de-Londres (H)	238	*	44.0	-21	Les Asperes 2, Tornac (G)
222	*	44.2		-31	Le Devois de Villeneuve, Vébron (L)	239	3	43.8	-19½	Ferrusat-Esquirol 1, La Vacquerie (H)
222	*	43.7		-31	La Caisse des Morts 1, Muries (H)	240	*	43.9	-20	Banèla, St-Hippolyte-du-Fort (G)
222	*	43.8		-31	La Matte 2, N. D.-de-Londres (H)	246	3	43.8	-15	Ferrusat-Esquirol 2, La Vacquerie (H)
222	*	43.8		-31	La Caumette, N. D.-de-Londres (H)	246	*	43.9	-16	Le Mas-Neuf 1, Claret (H)
222	*	43.8		-31	Moustachou 3, Causse-de-la-Selle (H)	248	*	43.7	-14½	Roquecombe, St-Saturnin-de-Lucian (H)
224	*	43.8		-30	Montlous 2, St-Martin-de-Londres (H)	248	*	43.9	-14½	Galaberte, St-Hippolyte-du-Fort (G)
225	*	43.9		-29½	La Massèle 2, St-Hippolyte-du-Fort (G)	249	*	43.7	-14	La Rigoule-Lavagnes, St-Guilhem-du-Désert (H)
226	*	43.8		-28½	Moustachou 2, Causse-de-la-Selle (H)	251	*	43.9	-12½	Les Chênes-verts, Claret (H)
226	*	43.6		-29	Le Mas Reinhart, Vailhauquès (H)	252	*	43.7	-11½	Boscroire, Argeliers (H)
227	*	43.8		-28	Taoulia Chiesa 1, St-Martin-de-Londres (H)	252	*	43.8	-11½	Feuilles, Rouet (H)
227	*	43.8		-28	Marivel, Rouet (H)	253	*	44.0	-11	Vialamont, Lapanoise-de-Cernon (Av)
227	*	43.8		-28	Lamalou, Rouet (H)	258	*	43.9	-7½	Le Capucin, Claret (H)
227	*	43.9		-28	Ferrières 1, Ferrières-les-Verreries (H)	263	*	43.8	-4	Le Grand-Juyan de la Figarède, Cazevieille (H)
227	*	43.8		-28	Camp, Rouet (H)	263	*	43.7	-4	Roquecourbe, Montpeyroux (H)
227	*	43.9		-23	La Baume, Ferrières-les-Verreries (H)	266	*	44.0	-1½	Les Asperes 1, Tornac (G)
227	*	43.7		-28	Pouiland 2, Puéchabon (H)	271	*	44.0	+2	Balmaresse, St-Jean-du-Bruel (Av)
227	*	43.8		-28	Bergerie de Lamalou 1, Rouet (H)	286	*	44.3	+12½	L'Aumède-Bas 1, Chanaç (L)
228	*	44.0		-27½	Le Col de l'Aubert, Monoblet (G)	296	*	43.9	+19½	La Gruelle, Cornus (Av)
228	*	43.9		-27½	Ayrolles, Alzon (G)	300	*	43.8	+22½	Soulgats 1, St-Maurice-Navacelles (H)
229	*	43.7		-27	Argelliers 1, Argelliers (H)	306	*	43.8	+26½	Le Bosc-Gros, St-Maurice-Navacelles (H)
230	*	43.8		-26½	Vialaret, La Vacquerie (H)	326	*	44.0	+38	La Grand Pallière, Anduze (G)

*Az. as measured by Y. Chevalier, G. Combarnous or J. Arnal; alt. assumed to be 2° for the calculation of declination.
 Av: Aveyron; G: Gard; H: Hérault; L: Lozère.

Chapter 10. Tombs of West Languedoc and the East Pyrenees

10.1. Orientations of 36 tombs of west Hérault and north Aude.

Az. °	Alt. °	Lat. °	Dec. °	Tomb	Az. °	Alt. °	Lat. °	Dec. °	Tomb
<i>BR-dolmens</i>									
20	4	43.4	+46½	Bois Bas 4, Minerve (H)	65	0	43.4	+17½	Bois Bas 12, Minerve (H)
236	0	43.4	-24½	Bois Bas 5, Minerve (H)	71	1	43.4	+14	Bois Bas 6, Minerve (H)
<i>Major allées couvertes</i>									
143	0	43.3	-36	D. des Fados, Siran (Au)	140	0	43.4	-34½	Lacs 2, Minerve (H)
150	0	43.3	-39½	St-Eugène, Rieux-Minervois (Au)	151	0	43.7	-39½	Lacade 1, Toucou, Octon (H)
174	0	43.3	-47	Jappeloup, Trausse (Au)	156	-0½	43.4	-42½	Bois Bas 7, Minerve (H)
178	-0½	43.3	-48	Casulha (Lauriol 1), Siran (H)	165	0	43.7	-45	Lacade 3, Toucou, Octon (H)
<i>Lesser galleries</i>									
111	-0½	43.3	-16	Boun-Marcou, Mailhac (Au)	173	0	43.7	-46½	Lacade 2, Toucou, Octon (H)
111	1	43.4	-14½	Bois Bas 1, Minerve (H)	196	0	43.4	-45	Bois Bas 3, Minerve (H)
112	0	43.2	-16½	Rougeats, Monze (Au)	197	0	43.4	-44½	Ventalous, Cuperoviès (Au)
133c	2	43.2	-28½	Peirières, Villedubert (Au)	228	0	43.4	-29½	Bois Bas 10, Minerve (H)
156	-0½	43.4	-42½	Bois Bas 8, Minerve (H)	250	0	43.4	-15	Bois Bas 11, Minerve (H)
<i>Miscellaneous</i>									
158	0	43.4	-43	Lacs 3, Minerve (H)	108	0	43.6	-13½	La Caissende 1, Combes (H)
169	-0½	43.3	-47	Mousse 1, Siran (H)	145	-0½	43.6	-37½	La Caissende 3, Combes (H)
172	0	43.3	-46½	Cigalière, Cesseras (H)	153	-0½	43.3	-37½	Palet de Roland, Pépieux (Au)
190	1	43.4	-45	Bois-de-Monsieur, Assignan (H)	208	0	43.4	-41½	Bois Bas 14, Minerve (H)
192	0	43.4	-46	Lacs 1, Minerve (H)	230	2	43.4	-40½	Pierre Plantée, Fournes-Cabardès (Au)
194	3	43.4	-42	Cuégnos, Villespassans (H)	242	0	43.3	-26½	Mousse 3, Siran (H)
					249	3	43.4	-20½	Roque Fraoucado, Pépieux (Au)
								-13	Mousse 2, Siran (H)

Au: Aude; H: Hérault.

10.2. Orientations of 90 tombs of the extreme northeast of Catalogna and 10 frontier tombs of Pyrénées-Orientales.

Az. °	Alt. °	Lat. °	Dec. °	Tomb	Az. °	Alt. °	Lat. °	Dec. °	Tomb
<i>Tombs with subcircular chamber and corridor</i>									
132	0	42.5	-30	49 = Font del Roure, Espolla (AS)	165	-0½	42.4	-46½	43 = Gutina, S. Climent Sescebes (AS)
139	5	42.4	-30	50 = Arreganyats, Espolla (AS)	170	-0½	42.4	-48	62 = Puig Esquers I, Llança (AS)
140	0	42.4	-35	13 = Mas Puig de Caneres, Darnius (AS)	178	*	42.4	-47	64 = Pla dels Capallans, Colera (AS)
163	-0½	42.4	-46	44 = Tires Largues, S. Climent Sescebes (AS)	214	0	42.3	-38½	75 = Barraca del Rabert, Pau (SR)
165	0	42.3	-46	81 = Mas Bofill, Palau-saverdera (SR)	262	0	42.4	-6½	24 = Estanyos II, La Jonquera (AS)

Table 10.2 continued]

Az. °	Alt. °	Lat. °	Dec. °	Tomb	Az. °	Alt. °	Lat. °	Dec. °	Tomb
<i>Tombs with trapezoidal chamber and corridor</i>									
48	*	42.3	+30	100 = Mas Godo, Port de la Selva (CC)	240	0	42.3	-22	84 = Sureda I, Palau-saverdera (SR)
114	10	42.5	-10½	28 = Coll de Madas II, La Jonquera (AS)	240	0	42.4	-22	61 = Passatge, Llança (AS)
118	*	42.5	-20	5 = Cova de l'Alarb de Valmyn, Argelès-sur-Mer (AN)	244	-0½	42.3	-20	71 = Talaià, Vilajuïga (SR)
124	0	42.3	-25	94 = Mores Altes II, Port de la Selva (SR)	248	*	42.4	-15½	66 = Coll de Farella, Portbou (AS)
128	*	42.5	-26½	Coll de la Creu, Banyuls (AN)	248	*	42.4	-15½	Verneda, Capmany (AS)
138	*	42.4	-33	Prat Lancat, S. Climent Sescebes (AS)	260	-0½	42.3	-8	109 = Turó de l'Home, Roses (CC)
142	2	42.3	-34	87 = Febosa, Palau-saverdera (SR)	263	*	42.3	-5	99 = La Cendrera, Port de la Selva (CC)
146	0	42.3	-38½	82 = Devesa, Palau-saverdera (SR)	270	8	42.3	+5½	89 = Riera Pujolar I, Port de la Selva (SR)
148	*	42.4	-39	29 = Mesclants, La Jonquera (AS)	304	0	42.3	+24	108 = Llit de la Generala, Roses (CC)
148	*	42.5	-38	7 = Cova de l'Alarb de Rimbau, Collioure (AN)	<i>Tombs with indeterminate chamber and corridor</i>				
153	1	42.3	-41	93 = Mores Altes I, Port de la Selva (SR)	68	*	42.4	+16½	Cantons/Llippoters, Espolla (AS)
153	3	42.3	-39	77 = Coll del Bosc de la Margalla, Pau (SR)	88	*	42.3	+2	107 = Casa Cremada, Roses (CC)
153	-0½	42.4	-42	58 = Coma de Feliu, Rabós d'Empordà (AS)	103	*	42.4	-9	Coll de Dofines, Rabós d'Empordà (AS)
158	5	42.3	-39	83 = Muntanya d'en Caselles, Palau-saverdera (SR)	128	*	42.4	-26½	30 = Pedreguers, La Jonquera (AS)
161	-0½	42.4	-45½	46 = Cabana Arqueta, S. Climent Sescebes (AS)	128	*	42.4	-26½	Pug l'ifell, Llançà (AS)
165	0	42.4	-46	52 = Barranc, Espolla (AS)	150	9	42.3	-32	Fontasia I, Pau (SR)
166	4	42.3	-42	106 = Creu d'en Cobertella, Roses (CC)	160	-0½	42.3	-45	76 = Creu Blanca, Pau (SR)
166	5	42.3	-41	Fontasia II, Pau (SR)	168	*	42.3	-46	98 = Puig Saquera, Roses (SR)
168	*	42.3	-46	97 = Pla d'Estar/Quindals, La Selva de Mar (SR)	198	*	42.3	-44	Barranc de Vilajuïga (SR)
168	*	42.5	-45½	Collet de Baix, Cantallops (AS)	207	-0½	42.3	-42½	68 = Cagut II, Vilajuïga (SR)
170	-0½	42.4	-48	57 = Solar d'en Gibert, Rabós d'Empordà (AS)	218	*	42.4	-35	Pug de Llop, Llançà (AS)
175	15	42.4	-32½	51 = Les Morelles, Espolla (AS)	248	*	42.3	-15½	86 = Sureda II, Palau-saverdera (SR)
179	4	42.3	-44	95 = Taula dels Liadres, La Selva de Mar (SR)	<i>Tombs with square chamber and wide corridor / Catalan galleries</i>				
182	1	42.4	-47	65 = Mas Patiràs, Colera (AS)	90c	4	42.4	+2½	54 = Giraltó II, Espolla (AS)
183	9	42.3	-39	92 = La Pallera, Port de la Selva (SR)	98	*	42.5	-5½	6 = Collets de Cotlliure, Argelès-sur-Mer (AN)
184	5	42.3	-42½	96 = La Mora, La Selva de Mar (SR)	118	*	42.4	-20	15 = Rocalba, Agullana (AS)
188	*	42.5	-46½	8 = Coll del Brau, Banyuls (AN)	126	3	42.5	-23½	3 = Na Christiana, l'Albera (AN)
189	7	42.3	-40	73 = Vinya del Rei, Vilajuïga (SR)	136	17	42.5	-18	4 = Balma del Moro, Laroque-des-Albères (AN)
193	-0½	42.3	-47½	67 = Cagut I, Vilajuïga (SR)	140	1	42.4	-34	18 = Barraca del Ladre, l'Estrada/Agullana (AS)
196	-0½	42.4	-46½	55 = Puig Balaguer, Espolla (AS)	148	*	42.4	-38½	Mas dels Bueus, La Jonquera (AS)
198	*	42.4	-44	63 = Puig d'Esquires II, Colera (AS)	149	-0½	42.5	-40	31 = Coll de Madas I, Cantallops (AS)
206	6	42.4	-36½	56 = Comes Llohes de Pls, Rabós d'Empordà (AS)	150	4	42.4	-36½	17 = Jaça d'en Torrent, l'Estrada/Agullana (AS)
209	-0½	42.3	-41½	70 = Riuines, Vilajuïga (SR)	152	0	42.4	-41	33 = Quer Afumat, Capmany (AS)
218	20	42.3	-19	90 = Riera Pujolar II, Port de la Selva (SR)	158	*	42.3	-42½	Laballera, Port de la Selva (SR)
219	-0½	42.5	-36	32 = Coma de Gall, Cantallops (AS)	164	0	42.4	-46	47 = Puig del Pal, Espolla (AS)
224	-0½	42.4	-33	53 = Giraltó I, Espolla (AS)	168	*	42.5	-45½	St Pere de Forques, Argelès-sur-Mer (AN)
227	3	42.3	-28	72 = Carrollar, Vilajuïga (SR)	172	1	42.3	-46½	79 = Vinyes Mortes, Pau (SR)
228	*	42.3	-29	Roca Miralles, Port de la Selva (SR)	173	3	42.4	-44½	40 = Fontanilles, S. Clement Sescebes (AS)
228	*	42.5	-29	Coll de Madas III, La Jonquera (AS)	179	0	42.4	-48	35 = Mungoier, Capmany (AS)
228	*	42.5	-29	9 = Coll de les Portes, Cerbère (AN)	202	13	42.3	-31	91 = Mas de la Mata, Port de la Selva (SR)
233	0	42.3	-26½	80 = Vinyes Mortes II, Pau (SR)	208	*	42.5	-40	Puig Gros, Cantallops (AS)
234	-0½	42.3	-26½	69 = Carena, Vilajuïga (SR)	256	0	42.3	-11	78 = Puig Margall, Pau (SR)

Table 10.2 continued]

	Az. °	Alt. °	Lat. °	Dec. °	Tomb	Az. °	Alt. °	Lat. °	Dec. °	Tomb
<i>Simple dolmens</i>										
132	0° 1/2	42.4		-29° 1/2	41 = Salt d'en Peió, Sant Climent Sescebes (AS)	165	-0° 1/2	42.4	-46° 1/2	19 = Canadal, La Jonquera (AS)
134	-0° 1/2	42.4		-32	21 = Mas Baleta II, La Jonquera (AS)	175	0	42.4	-48	38 = Les Closes, Sant Climent Sescebes (AS)
147	-0° 1/2	42.4		-39	20 = Mas Baleta I, La Jonquera (AS)	178	*	42.4	-47	36 = Vinya Monera, Capmany (AS)
148	5	42.5		-34	2 = Siureda, Maureillas (AN)	224	0	42.4	-32° 1/2	23 = Estany I, La Jonquera (AS)

AN: L'Albera Nord (France); AS: L'Albera Sud; SR: La Sierra de Rodes; CC: El Cap de Creus.

* Measurement by J. Tarrús; altitude assumed to be 1° for the calculation of declination.

Numbers according to J. Tarrús and J. Chinchilla, *Els monuments megalítics* (Girona, 1992).

10.3. Orientations of 72 dolmens of Pyrénées-Orientales and south Aude.

	Az. °	Alt. °	Lat. °	Dec. °	Tomb	Az. °	Alt. °	Lat. °	Dec. °	Tomb
<i>Subcircular dolmens</i>										
258	*	42.9		-7	La Clape 8, Laroque-de-Fa (N)	267	*	42.9	-0° 1/2	Cabane des Maures, Rouffiac-des-Corbières (N)
161	*	42.7		-41° 1/2	Caladroy 1, Bélesta-de-la-Frontière (C)	111	*	42.7	-13° 1/2	Caoumo del Moro, Feilluns (C)
	*	42.9		+18° 1/2		145	*	42.8	-34° 1/2	Espandiols, St-Paul-de-Fenouillet (C)
	*	42.9				153	0	42.7	-41° 1/2	Moli de Vent, Bélesta-de-la-Frontière (C)
	*	42.9				236	*	42.7	-22	Saint-Martin, Latour-de-France (C)
<i>Dolmens with narrow corridors</i>										
110	*	42.9		-12° 1/2	Tres Peyros, Massac (N)	113	0	42.6	-17	Serrat d'en Jacques, St-Michel-de-llotes (S)
183	*	42.9		-44° 1/2	La Clape 7, Laroque-de-Fa (N)	119	0	42.6	-21° 1/2	Poste de Tir, St-Michel-de-llotes (S)
293	*	42.9		+18° 1/2	La Gouma, Montgaillard (N)	126	3	42.5	-23° 1/2	Balma de Na Christiana, S-Jean-de-l'Albère (S)
103	0	42.6		-10	Prat Clos, Ria-Sirach (C)	136	17	42.5	-18	Balma del Moro, Laroque-des-Albères (S)
109	0	42.7		-14	La Barraca, Tarerach (C)	137	*	42.5	-30° 1/2	Serrat de les Fonts 1, St-Marsal (S)
126	*	42.7		-23° 1/2	Pla de l'Arca, Molig-les-Bains (C)	147	11	42.6	-28° 1/2	Serrat d'en Parot, Corneilla-du-Conflent (S)
205	*	42.7		-39	Mas Lussane, Tarerach (C)					
<i>Simple dolmens</i>										
90	0	42.6		-0° 1/2	Coll de la Llosa, St-Michel-de-llotes (S)	40	*	42.9	+36° 1/2	Prat d'en Mourges, Camps-sur-Agly (N)
128	9	42.5		-20	Plan d'Arques 1, Fuilla (S)	137	*	42.9	-30	Paza 1, Rouffiac-les-Corbières (N)
<i>Galleries</i>										
135	*	43.0		-29	Clot de l'Oste, Bouisse (N)	137	*	43.0	-30	Dolmen 1, Salza-Vigneveille (N)
169	*	42.9		-43° 1/2	La Clape 6, Laroque-de-Fa (N)	138	*	43.0	-30° 1/2	Dolmen 3, Salza-Vigneveille (N)
176	*	43.0		-44	Bellongue, Fontjoncouse (N)	144	*	43.0	-34	Dolmen 2, Salza-Vigneveille (N)
185	4	42.9		-43	La Clape 4, Laroque-de-Fa (N)	166	*	43.0	-42° 1/2	Coume-jonquièra, Davejean (N)
187	4	42.9		-43	La Clape 5, Laroque-de-Fa (N)	185	4	42.9	-43	La Clape 2, Laroque-de-Fa (N)
194	*	42.9		-42° 1/2	Paiza 3, Rouffiac-des-Corbières (N)	38	*	42.7	+37° 1/2	Peyralade, Mosset (C)
197	7	42.9		-38	La Clape 1, Laroque-de-Fa (N)	113	0	42.8	-17	Le Roc de l'Arca, Feilluns (C)
203	*	42.9		-40	Table des Maures, Massac (N)	117	1	42.6	-19	Le Homme Mort 1, Ria-Sirach (C)
205	*	42.9		-39	Arco del Pech, Cubières-sur-Cinoble (N)	132	*	42.7	-27° 1/2	San Ponci, Molig-les-Bains (C)
209	*	43.0		-37° 1/2	La Serre, Monthoumet (N)	143	*	42.7	-33° 1/2	La Mort de l'Eygassier, Trevilach (C)
	*					148	*			Col del Tribe, Molitg-les-Bains (C)

Table 10.3 continued]

Az.	Alt.	Lat.	Dec.	Tomb	Az.	Alt.	Lat.	Dec.	Tomb
°	°	°	°		°	°	°	°	
158	0	42.7	-43½	Cova del Misser, Campoussy (C)	146	*	42.6	-35	Mas d'en Payrot, St-Michel-de-Llotes (S)
164	5	42.6	-40½	Montsec, Ria-Sirach (C)	166	*	42.6	-43	Las Jasses, St-Michel-de-Llotes (S)
167	1	42.7	-45	Font de l'Orty, Eus (C)	176	*	42.6	-44½	Vallorta, St-Michel-de-Llotes (S)
175	*	42.7	-44½	Camp del Prat, Trilla (C)	201	*	42.6	-41	Los Masos, St-Michel-de-Llotes (S)
179	*	42.8	-44½	Olivia d'en David, Salses-le-Château (C)	227	*	42.6	-28	Serra 1, Fuilla (S)
183	*	42.7	-44½	Taupels, Trilla (C)	232	*	42.6	-25	Raméra 1, Caixas (S)
202	0	42.6	-43½	Arca de Calahon 1, Molitg-les-Bains (C)	238	*	42.6	-21	Serra 2, Fuilla (S)
231	5	42.6	-24	Serrat d'en Gely, Castelnou (C)	249	5	42.5	-12	Serrat del Coll de les Arques, Tàillet (S)
235	1	42.6	-24½	Arca de Calahon 3, Molitg-les-Bains (C)	273	*	42.6	+ 4	Moragas, Boule d'Amont (S)
240	0	42.8	-22	La Rouvre, Ansigan (C)					
289	*	42.6	+16	Camp de la Coma, Conat (C)	133	0	42.6	-30½	Creu de la Falibe, St-Michel-de-Llotes (S)
90c	9	42.6	+6	Corbatura, Cornella-du-Conflent (S)	147	5	42.5	-34	La Sureda, Maureillas-Las-Illas (S)
109	*	42.6	-12	La Lloseta, Clara-Villerach (S)	181	*	42.5	-44½	Caixa de Rotian, Arles-sur-Tech (S)
114	*	42.5	-15½	Serrat de les Fonts 2, St-Marsal (S)					
118	1	42.6	-20	Cabana del Moro, Llauro (S)					

(N): in northern part of region (Corbières/Aude, north of the Agly).

(C): in central part of region (between the Agly and the Têt).

(S): in southern part of region (Conflent, Aspres, Vallèspir; south of the Têt).

*Az. as measured by R. Iund, or as listed by J.-P. Bocquenet in his doctoral thesis, "Monuments et nécropoles mégalithiques dans les Corbières méridionales", Toulouse University, c. 1994; alt. assumed to be 3° for the calculation of declination.

Chapter 11. Tombs of the Balearic Islands

11.1. Orientations of 9 megalithic sepulchres of the Balearic Islands.

Az.	Alt.	Lat.	Dec.	Tomb
°	°	°	°	
220	0	39.9	-36	Ses Roques Llises (Menorca)
225	3	40.1	-30½	Ferragut Nou (Menorca)
242	0	39.8	-21	Son Bauló de Dalt (Mallorca)
244	*	39.9	-19	S'Aigua Dolça (Mallorca)
245	3	40.1	-17	S'o'n Ermita (Menorca)
258	1	39.9	-8½	Alcàdus (Menorca)
260	0	39.9	-7½	Binidalinet (Menorca)
268	0	39.7	-1½	Ca Na Costa (Formentera)
278	5	39.9	+9½	Momplé (Menorca)

*Altitude assumed to be 1° for the calculation of declination.

11.2. Orientations of 18 burial navetas of Menorca.

Az. °	Alt. °	Lat. °	Dec. °	Tomb	Az. °	Alt. °	Lat. °	Dec. °	Tomb
159	0½	39.9	-45½	Cotaina d'en Carreras (ee)	210	0½	39.9	-41	Torralbet d'es Caragol (oe)
174	0½	39.9	-49	Biniac-L'Argentina W (oe)	226	0	40.0	-32	Torre del Ram W (ew)
178	0	39.9	-50	Cotaina de C'an Rabassó (oe)	233	0	40.0	-27½	Torre del Ram E (ew)
192	1	39.9	-47½	Biniac-L'Argentina E (oe)	240	0	40.0	-22½	Binipati Nou (ew)
192	0	39.9	-48½	Llumena d'en Montanyes (oe)	245	3	39.9	-17	Rafal Rubí S
192	2½	39.9	-46½	Rafal Rubí N (ee)	251	1½	39.9	-13½	Torre Llisa Vell (oe)
195	0	40.0	-48	Sa Torreta (ee)	251	1½	40.0	-13½	Es Tudons (ew)
195c	0	39.9	-48	Torralbenc Nou (ee)	252	0	40.0	-13½	Son Morell (ew)
195	0½	39.9	-47	Binimaimut (ee)	254	0	40.0	-12	La Cova (ew)

ee: elongated, eastern region; ew: elongated, western region; oe: oval, eastern region.

Chapter 12. Tombs of Corsica and Sardinia

12.1. Orientations of 8 dolmens in southwest Corsica.

Az. °	Alt. °	Lat. °	Dec. °	Tomb
117½	4½	41.7	-17	Tola di u Tormentu
130	3	41.5	-26½	Fontanaccia
139	16	41.8	-21	Settiva
147c	0	41.7	-39	Figala-Sarra
162	-0½	41.6	-46½	Belvedère
165	0	41.6	-47	Cardiccia
181½	1	41.6	-48	Vaccil-Vecchia
217	3	41.6	-34½	Arghjola

12.2. Orientations of the sepulchres at Li Muri (lat. 41.1°).

Az. °	Alt. °	Dec. °	No.
95/275	-	-4/+3½c	5
162	5	-41½	1
180	1	-48½	2
200	2½	-43	3

12.3. Orientations of tombs at Pranu Muttedu, Goni (lat. 39.6°).

Az. °	Alt. °	Dec. °	No.
100	1	-7½	6
169	1	-48½	2
184	1	-49½	3
185	1	-49½	1
185	1½	-49	5

12.4. Orientations of 24 dolmens in northern Sardinia.

Az. °	Alt. °	Lat. °	Dec. °	Tomb
84½	1	40.3	+4½	Nela, Sindia
90	3	40.3	+2	Cucche, Dorgali
99	1	40.1	-6½	Mesu Enas, Abasanta
106	0½	40.2	-12	Muttiano, Borore
106½	0½	40.2	-12½	Arghentu, Borore
113½	0½	40.3	-17½	Arbu 2, Birori
113½	0	40.1	-18	Su Nurazzolu, Abbasanta
120	1	40.2	-22	Mura Fratta, Aidomaggiore
121	4	40.5	-20½	Sa Coveccada, Mores
125	1	40.3	-25½	Noazza, Birori
130	2½	40.9	-27½	Ciuledda, Lúras
130½	6	41.1	-25	Balaiana Luriareddu, Luogosanto
136	1	40.2	-33	Sa Perda 'e s'Altare, Macomer
138½	1	40.2	-34½	Funtana Biu, Aidomaggiore
140½	3	40.3	-34	Punta Sa Femmina, Orani
150	3	40.9	-38½	Alzaledda, Lúras
154	-1	40.3	-45	Monte Longu, Dorgali
155	0	40.2	-44½	Su Succchiau, Aidomaggiore
155½	0	40.2	-44½	Scallotza, Aidomaggiore
167	0	40.1	-48½	Mura de Putzu, Abbasanta
170½	0	40.6	-49	Cianna Su Laccu, Buddusò
180	2	40.3	-48	Motorra, Dorgali
180	4½	40.9	-47	Ladas, Lúras
190	1	40.1	-48½	Domusnovas Canales, Norbello

12.5. Orientations of 20 Sardinian *corridoi dolmenici*.

Az. °	Alt. °	Lat. °	Dec. °	Tomb	Az. °	Alt. °	Lat. °	Dec. °	Tomb
86	*	40.8	+3½	Su Lioni, Perfugas	152	0	41.1	-42	Lu Muntiuchiu di Lu Paladinu, Luogosanto
94½	1	40.3	-3	Sa Murtava, Oliena	154	1	39.6	-43½	Genna de Accas, Goni
99½	1	40.0	-7	Sa Perda Longa, Austis	164	*	40.7	-46	Su Cobesciu Basciu 2, Chiaramonti
108	1	40.1	-13½	Domusnovus Canales, Norbello	164	*	40.6	-46½	Montju Coronas 2, Ozieri
124	*	40.7	-24½	Su Cobesciu Altu 1, Chiaramonti	165	*	40.7	-46½	Sa Turturina, Chiaramonti
128	*	40.7	-27½	Su Cobesciu Altu 2, Chiaramonti	165	*	40.8	-46½	Concas, Perfugas
130	*	40.6	-29	Montiju Coronas 1, Ozieri	166	-0½	40.2	-49½	Pedra in Cuccuri, Borore
135	*	40.7	-32	Su Cobesciu Basciu 1, Chiaramonti	174	0½	39.9	-49½	Corti Noa, Laconi
143	3	39.7	-35½	Frumini, Isili	178	*	39.7	-49½	Domu Beccia 3, Uras
150	7	39.7	-41½	Pranu Tres Literas, Isili					
151	0	39.8	-42½	S'Arcu Is Crabioli, Seui					

*Altitude assumed to be 1° for the calculation of declination.

 12.6. Orientations of 252 Sardinian *tombe di giganti*.

Az. °	Alt. °	Lat. °	Dec. °	Tomb	Az. °	Alt. °	Lat. °	Dec. °	Tomb
24½	8	39.8	+51½	Genna 'e Cussa 2, Esterzili	89	*	40.2	+ 1	Colombos, Sedilo
28½	0½	39.7	+42½	Su Prettu, Tertenia	89½	1	40.3	+ 1	Biristeddi, Dorgali
31½	1½	40.2	+41½	Orbezzari, Sedilo	91½	*	40.8	-0½	Contracalza, Perfugas
35	*	39.8	+39½	Fragori, Barisardo	92½	0½	39.4	-2	Monte Su Crobu 1, Muravera
35½	11	40.4	+47	Forghie, Loculi	93	*	40.2	-2	Erghighine 1, Sedilo
37½	13	39.4	+47½	Su Ingurtosso, Donori	93½	9	40.0	+3	Talei, S. Mauro, Sórgono
42	*	39.9	+35	Pala Niedda, Tortolí	93½	3½	40.1	-0½	Mastala, Fonni
44	5½	39.7	+37½	Barisoni, Tertenia	94½	0	40.3	-4	Zanchia, Silanus
44	*	39.1	+34½	Perda 'e Sali, Sarroch	94½	*	40.2	-3	Figu, Borore
51½	7½	40.4	+33½	Su Faccihile de Othieri, Irgoli	94½	1½	41.0	-2½	Coddu Vecci, Arzachena
53	2	39.7	+29	Mesedas, Las Plassas	95½	1	40.3	-4	Biristeddi 2, Dorgali
54½	6	40.3	+30½	Intremontes, Oliena	96½	*	40.2	-4½	Orzanghere, Sedilo
65	*	39.7	+19½	Bingia 'e Monti, Gonostramatza	97	1	40.3	-5	Perdas Doladas 3, Silanus
66½	0½	41.1	+17½	Albucciu/Malchittu, Arzachena	97½	1	39.6	-5½	Bruncu Ladu, Guasila
68½	0½	40.3	+16	Santa Sabina 2, Silanus	97½	-0½	39.8	-6½	Corti Eccia 3, Esterzili
69½	1½	40.3	+16½	S'Isca de Lottani, Dorgali	98	*	40.5	-5½	Sa Perda Covecada, Torralba
69½	1	40.2	+16	Sos Ozastros (S 1), Aidomaggiore	98	*	40.6	-5½	Conca Nicollitta 4, Ozieri
70½	*	40.8	+15	Puzzu Canu 2, Perfugas	98½	-0½	39.8	-7½	Corti Eccia 2, Esterzili
72½	1	39.8	+13½	Genna 'e Cussa 3, Esterzili	99	*	39.9	-6½	Niddai, Arzana
74½	0½	40.3	+12	Santa Sabina 1, Silanus	99	3	41.1	-5	Li Mizzani, Palau
74½	2	39.7	+13	Perda Bianca 1, Seui (Orboredu)	100	*	39.9	-7½	Texere, Ilbono
75	6	39.8	+15½	Ardassai, Seui	100	*	39.9	-7½	Paule Luturru, Samugheo
77	*	40.5	+10	Sagarà, Nule	101	*	40.3	-8	Puttu Oes, Macomer
77	0	40.2	+9½	Sos Ozastros (S 2), Aidomaggiore	101	*	40.2	-8	Cubas 2, Dualchi
78½	3	40.0	+10½	Trodolossai, Sorgono	101	1	40.1	-8	Tanca Carboni, San Michele, Fonni
81½	0½	40.2	+6½	Nuscadiore, Borore	102½	-0½	40.1	-10½	Goronna 2, Paulilatino
82	*	39.9	+ 6½	S. Salvatore, Tortolí	103	*	40.2	-9½	Santu Bainzu, Borore
82	0	40.3	+ 5½	Palatu, Birori	103	*	40.5	-9½	Sa Perda Longa, Torralba
83	*	39.9	+ 5½	Santa Maria 2, Samugheo	103½	1	40.2	-10	Tanca Gregu, Piemonte, Fonni
83	*	39.6	+ 6	Sedda Sa Caudeba 2, Collinas	105	*	40.3	-11	Sa Perda 'e S'Altare, Birori
84	1½	40.2	+ 5½	Battos 1, Sedilo	105	2	40.1	-10½	[2km south of Lodine], Gavoi
86½	2	40.1	+ 4	Aiodda, Nurallao					
87	3½	40.3	+ 4½	Thomes, Dorgali					
87½	-0½	40.1	+ 1	Goronna 1, Paulilatino					
87½	7½	39.9	+ 6½	Perda Longa (north), Tortolí					

Table 12.6 continued]

Az. °	Alt. °	Lat. °	Dec. °	Tomb	Az. °	Alt. °	Lat. °	Dec. °	Tomb
105	2	40.1	-10½	Tanca Angheddu, N.S. del Monte, Fonni	123	0	39.7	-25	Ollasta Entosu, Seui (Orboredu)
105	0	39.6	-12	Sa Ruina de Su Procu, Mandas	123	*	40.3	-24	Sa Perda 'e s'Altare, Birori
105½	0½	40.1	-12	Rio Cispiri, Bonárcado	123	*	39.9	-24½	Coxina, Arzana
105½	1	40.1	-11½	—, Nurrallao	124	2	40.3	-24	Pischine 'e Ainos, Tresnuraghies
105½	1	40.3	-11½	Perdas Doladas 2, Silanus	124	*	40.1	-25	Bena Sinis, Bonarcado
106	*	40.5	-11½	Isporo, Nule	124	*	40.3	-25	Sarbogadas, Birori
106½	3½	39.0	-10½	Su Niu 'e Su Crobu, Sant'Antioco	124	0½	40.1	-25½	Su Pranu 1, Abbasanta
106½	1½	40.3	-11½	Perdas Doladas 1, Silanus	124½	1	40.3	-25	Corbos, Silanus
106½	3	39.3	-11	Tasonis 1, Sinnai	124½	1	40.5	-25	Prunaiola, Torralba
107	1	40.1	-12½	Perdu Cossu 1, Norbello	125	*	39.9	-25½	Selene 1, Lanusei
108½	1	40.2	-13½	Santa Filiriga, Aidomaggiore	125	0	40.6	-26	Loelle south, Budussò
109	*	40.8	-14	Nuraghe Uriqu, Perfugas	125	6	40.1	-22	Madau 4, Fonni
109½	3	39.8	-13	Lappidesas 2, Gonnosno'	125½	1½	40.0	-25½	Sa Carcaredda A, Villagrande
110	0	40.2	-15½	Sos Ozastros (north), Aidomaggiore	125½	0½	40.3	-26½	Zöddoro, Silanus
110	2	40.5	-14	[field east of SS131], Torralba	126	*	40.3	-26	Lassia, Birori
110½	0	40.0	-16	Santu Luisu, Sorgono	126½	0	40.2	-27½	San Antonio, Macomer
110½	0½	41.1	-15½	Li Lolghi, Arzachena	126½	1	40.0	-26½	Sa Carcaredda B, Villagrande
110½	0	39.4	-16	Monte Su Crobu 3, Muravera	127	*	40.3	-27	Perda Lassia, Birori
111	*	39.4	-15½	Bruncu Perdarba, Villaputzu	127	*	40.6	-27	Conca Nicollitta 2, Ozieri
111	*	39.1	-16	Antigori 1, Sarroch	127	*	40.2	-26½	Bolossene, Aidomaggiore
111½	0	40.2	-16½	Imbertighe, Borore	127½	2	40.2	-26½	Tamuli 2, Macomer
112	*	40.2	-16	Erghighine 3, Sedilo	127½	*	40.3	-27	Solomo, Sindia
112	5½	40.2	-13	Cualbu Cundenna, Praru Ebbas, Fonni	128	1	40.3	-27½	Noeddos, Paulilatino
113	*	40.7	-17	Su Cobesciu Altu, Chiaramonti	129	*	40.8	-28	Sas Luzzanas, Perfugas
113½	0	39.8	-18	Corti Eccia 1, Esterzili	129	*	39.9	-28½	Selene 2, Lanusei
113½	0½	40.1	-17½	Su Pranu 2, Abbasanta	129	*	40.2	-28½	Filigorri, Sedilo
114	*	40.6	-17½	Conca Nicollitta 3, Ozieri	130	1½	40.2	-28½	Melas, Sedilo
114½	1½	40.2	-17½	Santu Antine 2, Sedilo	130½	4	40.4	-27	Ter. di Corrias, Sorrotha, Lula
114½	2	40.0	-17½	Serra Tsargiu, S. Mauro, Sòrgono	131	*	39.9	-30	Santa Maria 1, Samugheo
115	*	40.9	-18	Coas, Bortigadas	131	2	40.2	-29	Busoro, Sedilo
115	1	40.1	-18½	Perdu Cossu 2, Norbello	132	1	39.8	-30½	Bruncu S'Enna S'Omini, Seui
115½	7½	40.3	-14	Oddo Caccara, Orani					
116	1	39.9	-19	Pala de sa Cresia, Allai	132	3	40.1	-28½	Madau 5, Fonni
116	1½	40.2	-19	Santu Antine 1, Sedilo	132½	*	40.2	-30½	Erghighine 2, Sedilo
116½	1½	40.3	-19	Bolude, Silanus	132½	10	40.5	-23	Laccaneddu (E of Alghero)
117	1½	40.2	-19½	Battos 2, Sedilo	134	6	39.8	-27½	Lappidedas 1, Gonnosno'
118½	*	40.1	-21	Muraguada, Paulilatino	134	*	40.2	-31½	Cubas 1, Dualchi
119	*	40.8	-21	Campu d'Ulimu, Perfugas	134½	6½	39.7	-27½	Is Pranus, Isili
119	*	40.8	-21	Pubuliosa, Perfugas	134½	0½	40.4	-32	Sas Mulathas, Irgoli
119	1	40.6	-21	Malacarua, Alà dei Sardi	134½	6	39.7	-28	Cranaxolu, Orroli
120	*	40.8	-22	Puzzu Canu 1, Perfugas	134½	6	39.8	-27½	Lappidedas 3, Gonnosno'
120	*	40.3	-22	Tamuli 1, Macomer	136	1	39.8	-33	Troddolai, Seui
120	*	39.6	-22	Sedda Sa Caudeba 1, Collinas	136	1	40.9	-32½	Su Monte de S'Ape, Olbia
120	3	40.2	-20½	Bidistili, Fonni	136	1	39.7	-32	Scusorgiu, Gesturi
121	*	40.2	-22½	Uore, Borore	136½	2½	39.7	-32	Conca Nicollitta 1, Ozieri
121½	0	39.4	-24	Monte Su Crobu 4, Muravera	137	*	40.6	-33½	Domu S'Orcu, Siddi
121½	0	40.3	-24	Saperca 'e Noarza, Birori	138	-0½	39.7	-36	Monte Su Crobu 2, Irgoli
122	*	40.3	-23½	Miuddu, Birori	138½	0½	40.4	-35	Baioca, Sinnai
122½	3½	40.3	-22	Scano di Montiferro	138½	0½	39.3	-35½	

Table 12.6 continued]

Az. °	Alt. °	Lat. °	Dec. °	Tomb	Az. °	Alt. °	Lat. °	Dec. °	Tomb
138½	1½	39.6	-34½	Sa Mandara 1, Guasila	165½	1	39.6	-47½	Sa Mandara 2, Guasila
138½	4	40.1	-32	Madau 3, Fonni	167	*	39.1	-48½	Antigori 2, Sarroch
140	3	39.8	-34	Cuccuru de Pardu, Seui	169	1	39.8	-48½	Genna 'e Cussa 1, Esterzili
140	*	40.3	-35½	Noazza 1, Birori	173	*	40.1	-49	Pradu Maiore, Santu Lussurgiu
140	-0½	39.7	-37	Pitzu Ungronis, Nurri	173½	2½	40.2	-47	Iloi 1, Sedilo
140½	*	40.3	-35½	Castigadu s'Altare, Macomer	175½	9	39.5	-41½	San Cosimo 1, Gonnosfanadiga
141	1½	40.6	-35	Padentes, Alà dei Sardi	175½	4½	39.8	-45½	Is Piluncchedas, Genoni
141½	1	40.3	-36	S'Abbaia, Silanus	176½	1½	39.4	-49½	Is Carrubas de Brannau, Muravera
143½	0½	39.1	-38½	Tracasi, Tratalias	179	*	40.0	-49½	Osono, Triei
143½	6	39.5	-33½	S. Cosimo 2, Gonnosfanadiga	181	*	40.1	-49½	Campu Dare' 1, Narbolia
145	0½	40.2	-38½	Sa Matta 'e So Bide, Borore	181	-0½	39.3	-52½	Pirrei, Sinnai
145	0½	39.7	-39	Domu Beccia 2, Uras	182	*	39.1	-50½	Monte Mereu, Sarroch
145	2	39.7	-37½	Calafrixidadda, Isili	182	-0½	39.1	-52	Creminalana, S. Giov. Suergiu
145	2½	40.4	-36½	Ter. di Guiso, Sorrotha, Lula	183½	*	40.1	-50½	[3km SE of town], Séneghe
145½	0	39.3	-40	Serucci, Gonnesa	184½	0	40.1	-48	Su Forrighesu, Sindia
145½	0	40.6	-39	Loelle north, Budussò	185	2	40.3	-50	Pranu Lisa, Allai
145½	2	40.4	-37½	Ter. di Porcu, Sorrotha, Lula	187	0	39.9	-46	S'Ebgargariu, S. Mauro, Sóngoro
146	1½	40.0	-38½	Muru Longu, Carcara, Villagrande	187	3½	40.0	-46	Buraxedu, Nurri
146½	*	40.2	-39	Scano di Montiferro	189	*	39.7	-49	Gonnigori, Oliena
146½	2½	40.0	-38	Trocculu, Villagrande	189½	2½	40.3	-46½	Sant' Efis 2, Orune
147	1	40.2	-39½	Uras 2, Aidomaggiore	191½	0?	40.4	-49	Linus Arbus, Gesico
148	*	40.3	-40	Tamuli 3, Macomer	193½	6½	39.6	-42½	Cuili Loddo, Muravera
149	*	40.8	-40	Su Paladiniu, Perfugas	194½	1	39.4	-48	Basoru, San Vito
149	0	39.3	-42	Tasonis 2, Sinnai	198	1½	39.7	-46	Domu Beccia 1, Uras
149½	4	40.1	-38	Madau 2, Fonni	204	-0½	39.3	-46½	Santa Itxoa, Sinnai
150	-0½	39.4	-43	Cuili Loddo, Muravera	208½	4	39.1	-39½	Terra 'e Soli, Santadi
150½	0½	40.0	-42	Su Serragheddu, Villagrande	209½	1½	39.3	-41½	Sa Perda Lada, Decimoputzu
151	1	40.2	-41½	Maschiola, Aidomaggiore	211½	7	39.8	-35	Sa Cea de ls Molas, Esterzili
152½	3½	40.1	-40	Tanca Mele, S. Michele, Fonni	214½	1½	39.7	-38½	Ollastedu, Gesturi
153½	1½	40.3	-42	Mura Ruja, Silanus	215	*	39.9	-38½	Perda Carcina, Ilbono
154	*	40.8	-42½	Crabiles, Bulzi	215½	3	39.7	-36½	Su Cuaddu Nixias, Lunamatrona
155½	0	39.7	-45	Su Pranu, Orroli	222½	2	39.8	-33	Sa Ucca de ls Canis, Esterzili
156	*	40.1	-44	Campu Dare' 1, Narbolia	222½	3	39.7	-20½	Perda Bianca 2, Seui (Orborededdu)
156½	3	40.1	-42	Madau 1, Fonni	257½	-0½	39.4	-10½	Mitza 'e Fidi, Donori
157	1	40.1	-44	Serra 'e Lizzos 2, Séneghe	260	-0½	39.3	-9	Sa Murta Sterria, Maracalagonis
157½	1	40.2	-44½	Iscrallotze, Aidomaggiore	270	2	39.8	+1	Tacchesinu, Seui
158	0	40.0	-46	Su Cungiau de Tore, Sorgono	276½	4	39.4	+7½	Coineddu, Muravera
158½	3	39.8	-43	Lappidedas 4, Gonnosno'	285½	1½	39.8	+12½	Sa Omu 'e Nannis, Esterzili
159	1	40.2	-45	Sa Tanca 'e su Crecu, Aidomaggiore	335	7	39.7	+50	Guntruxoni, Nurri
161½	1	40.0	-46	Ruina Cheson, Sorgono	350	0	39.8	+48½	Motroxu 'e Bois, Uséllus
162	0	40.2	-47	Uras 1, Aidomaggiore	353½	8	39.3	+58	Sa Domu 'e S'Orcu, Quartucciu
162	3½	40.8	-43	Giagone, Erula					
162	0½	40.0	-46½	Porcu Abbas, Villagrande					
163	*	39.9	-46½	Monte Forru, Ilbono					
163	*	40.6	-46	Corona Saltania, Ozieri					
163	*	39.7	-47	Stessei, Nurri					
163	*	40.1	-46½	Serra 'e Lizzos 1, Séneghe					
163½	2½	40.2	-45	Iloi 2, Sedilo					
164½	14	39.5	-34½	Sibiri, Gonnosfanadiga					
164½	0	40.5	-47½	[Nuraghic village E of town], Osidda					

*Altitude assumed to be 1° for the calculation of declination.

Table 12.7. Orientations of the Nuraghic temples.

Az. °	Alt. °	Lat. °	Dec. °	Temple
94	-0½	40.7	-4½	Alà dei Sardi
98	+0½	40.3	-6	Serra Orrios (small)
158	+3	40.3	-42½	Serra Orrios (large)
167	-0½	39.8	-50½	Esterzili
120c	+2½	41.1	-20½	Malchittu

Chapter 13. Tombs of Malta, Sicily and Pantelleria

13.1. Orientations of 15 dolmens of Malta and Gozo.

Az. °	Alt. °	Lat. °	Dec. °	Tomb	Az. °	Alt. °	Lat. °	Dec. °	Tomb
15½/105½	1/0	36.0	+52/-13	Gozo 1	144½	3	36.0	-39	Ta Hammut 2
35½/215½	0/0	35.9	+41/-41½	Bidni	155	4½	36.0	-43½	Ta Hammut 3
108	0	36.0	-15	Gozo 4 gallery	156	4	36.0	-44½	Ta Hammut 7
109	0	35.8	-15½	Wied Zubner	162	0	35.9	-51	Fuq Wied Filep 2
111	0	36.0	-17	Gozo 2	166	0	35.9	-52½	Fuq Wied Filep 1
113½	0	36.0	-19	Gozo 3	174	3½	36.0	-50½	Ta Hammut 1
139	3	36.0	-35½	Ta Hammut 5	264/344	0/0	35.8	-5/+50½	Misrah ta Syniura
141?	3	36.0	-37	Ta Hammut 4					

Data published courtesy of Giorgia Foderà Serio and Juan Antonio Belmonte.

13.2. Orientations (in degrees) of passages in the sesi of Pantelleria. Where no orientation is cited, no measure could be obtained, because of the condition of the monument or of the surrounding terrain. Tombs *not* marked with an asterisk may have passages in addition to the one(s) measured.

Tomb	Azimuths of Passages	Tomb	Azimuths of Passages
*1	48, 53, 96, 100, 122, 168, 265, 271, 304, 315; 344 and 35 [with common entrance]	22	-
2	-	23	-
3	-	24	-
4	-	*25	110, 181, 351
5	99	*26	48, 170, 204, 338
6	-	27	139, 330
7	81	28	113, 159
8	-	29	-
9	88	30	264 and 351 [common entrance]
10	103	31	279
11	245	32	-
12	-	33	271
13	1, 99	34	-
*14	26, 155, 243, 342	35	191
15	-	*36	89, 133, 359
*16	340	37	-
17	158	38	71
18	-	39	-
*19	216	40	-
20	308	41	-
21	105	42	172

Chapter 14. Tombs of Tunisia, Algeria and Morocco

14.1. Orientations of 13 dolmens at Beni-Messous, Algeria (lat. 36.7°).

Az. °	Alt. °	Dec. °	No.	Az. °	Alt. °	Dec. °	No.	Az. °	Alt. °	Dec. °	No.
86	2	+4	4	106	2	-11½	7	145	7	-35½	16
88	2	+2½	2	117	3½	-19	14	154	1½	-45	8
91	2	0	3	118	2	-21	15	158	7	-42	13
92	2	-0½	5	122	2	-24	1				
104	2	-10	6	127	2	-27½	11				

Data from J.-P. Savary, "L'architecture et l'orientation des dolmens de Beni Messous", *Lybica*, xvii (1969), 271–330.

14.2. Orientations of 34 'skylight-tumuli' at Foum al Rjam, Morocco (lat. 29.5°).

Az. °	Alt. °	Dec. °	No.	Az. °	Alt. °	Dec. °	No.	Az. °	Alt. °	Dec. °	No.
33	4½	+50	5	99	3½	-6	12	127	0	-32	26
80	2	+9½	7	99	2	-7	9	130	6	-30½	10
82	0½	+7	18	101	12	-3½	8	130	0	-34½	4
85	2	+5	1	105	3	-11½	11	132	0	-36	23
86	3	+5	5	106	0	-14	30	133	0	-37	27
91	0½	-1	19	110	0½	-17½	6	137	0	-40	33
93	4	-0½	13	114	0	-21	32	137	0	-40	34
94	1	-3	16	121	0	-27	28	141	0	-43	25
94	0½	-3½	2	122	1	-27	21	149	0	-48½	3
95	0½	-4½	22	122	0	-28	29	156	0	-53	24
96	14½	+2	14	123	4	-26	17				
98	1½	-6½	20	125	0	-30½	31				

Data from J. A. Belmonte *et al.*, "Pre-Islamic burial monuments in northern and Saharan Morocco", *AA*, no. 24 (1999), S21–34, authors' numbering. Tombs 1–14 are in the SE area of the necropolis, 15–23 in the NE area, and 24–34 in the NW area.

14.3. Orientations of 7 'chapel-tumuli' at Taouz al Qadim, Morocco (lat. 31.0°).

Az. °	Alt. °	Dec. °	No.	Az. °	Alt. °	Dec. °	No.	Az. °	Alt. °	Dec. °	No.
98½	1	-7	9	105½	1½	-12½	10	125	1	-29	6*
103	1	-11	3	106	1	-13½	1				
103½	1	-11	7	119½	1½	-24½	4				

*No interior chapel; orientation is of the gate of a large court.

Data from J. A. Belmonte *et al.*, "Pre-Islamic burial monuments in northern and Saharan Morocco", *AA*, no. 24 (1999), S21–34, authors' numbering.

Appendix: The Minoan Cemetery at Armenoi, Crete

A.1. Azimuths, altitudes of the skyline, and the corresponding solar and lunar declinations of tombs at the Late-Minoan cemetery at Armenoi, Crete (latitude 35.3°). Lunar declinations take into account the relative proximity of the moon to the earth and the fact that it is being observed from the surface rather than the centre of the earth.

Az. °	Alt. °	Solar Dec. ° ,'	Lunar Dec. ° ,'	Tomb	Az. °	Alt. °	Solar Dec. ° ,'	Lunar Dec. ° ,'	Tomb
52½	1.5	+30 33	+31 10	39	82½	8.5	+10 57	+11 28	208
53½	1.7	+29 57	+30 33	38	82½	8.0	+10 39	+11 11	98
		MLS: +29 00			82½	8.0	+10 39	+11 11	107
56	2.2	+28 23	+28 59	3	83	8.0	+10 15	+10 47	29
56½	2.3	+28 04	+28 40	43	83	8.0	+10 15	+10 47	90
57½	2.5	+27 26	+28 01	190	83	8.0	+10 15	+10 47	96
57½	2.5	+27 26	+28 01	191	83	8.0	+10 15	+10 47	154
58½	2.6	+26 43	+27 19	80	83	8.0	+10 15	+10 47	183
60½	2.8	+25 17	+25 52	175	84	8.5	+09 43	+10 15	209
61½	2.9	+24 34	+25 09	42	84½	8.0	+09 01	+09 33	41
		SS: +23 51			84½	8.0	+09 01	+09 33	192
63½	3.1	+23 07	+23 41	46	84½	8.0	+09 01	+09 33	196
64	3.2	+22 45	+23 19	44	85	8.5	+08 54	+09 26	204
64	3.2	+22 45	+23 19	45	85½	8.0	+08 13	+08 45	72
65	8.5	+25 11	+25 44	206	86½	8.5	+07 41	+08 13	LIII
65	3.3	+22 01	+22 35	25	87½	8.5	+06 52	+07 24	205
65½	3.3	+21 39	+22 13	199	87½	8.0	+06 35	+07 07	67
67½	3.5	+20 11	+20 44	37	88	8.0	+06 11	+06 43	16
67½	3.5	+20 11	+20 44	177	88	8.0	+06 11	+06 43	87
67½	3.5	+20 11	+20 44	198	89	8.5	+05 39	+06 11	207
68	3.6	+19 50	+20 24	182	89	8.5	+05 39	+06 11	210
68½	3.7	+19 30	+20 03	66	89	8.0	+05 22	+05 54	84
69	3.8	+19 09	+19 43	179	89	8.0	+05 22	+05 54	170
69½	3.9	+18 49	+19 22	180	89½	8.0	+04 58	+05 30	68
69½	3.9	+18 49	+19 22	181	90½	8.0	+04 09	+04 41	69
		mls: +18 42			91½	8.0	+03 20	+03 53	—
70½	4.1	+18 08	+18 41	168	91½	8.0	+03 20	+03 53	83
71½	4.3	+17 27	+18 00	33	91½	8.0	+03 20	+03 53	167
71½	4.3	+17 27	+18 00	76	92	8.5	+03 14	+03 46	202
71½	4.3	+17 27	+18 00	77	92	8.5	+03 14	+03 46	LIV
72	4.4	+17 06	+17 39	160	92	8.0	+02 56	+03 28	135
72½	4.5	+16 45	+17 18	47	92	8.0	+02 56	+03 28	136
72½	4.5	+16 45	+17 18	161	92	8.0	+02 56	+03 28	140
72½	4.5	+16 45	+17 18	172	92	8.0	+02 56	+03 28	149
73½	4.7	+16 04	+16 37	32	92½	8.0	+02 32	+03 04	24
73½	4.7	+16 04	+16 37	79	92½	8.0	+02 32	+03 04	70
74	4.9	+15 47	+16 19	36	92½	8.0	+02 32	+03 04	74
75	5.1	+15 05	+15 38	48	92½	8.0	+02 32	+03 04	81
75	5.1	+15 05	+15 38	95	92½	8.0	+02 32	+03 04	89
75	5.1	+15 05	+15 38	163	93	8.5	+02 25	+02 58	203
75½	5.2	+14 44	+15 17	78	93	8.0	+02 08	+02 40	28
75½	5.2	+14 44	+15 17	173	93	8.0	+02 08	+02 40	105
76	5.3	+14 23	+14 56	30	93	8.0	+02 08	+02 40	187
76½	5.4	+14 02	+14 35	26	93½	8.0	+01 43	+02 16	35
77	5.5	+13 41	+14 14	174	94½	8.0	+00 55	+01 28	—
77½	5.7	+13 23	+13 55	185	94½	8.0	+00 55	+01 28	—
78	5.9	+13 06	+13 39	31	94½	8.0	+00 55	+01 28	91
78½	6.1	+12 49	+13 21	40	95	8.0	+00 31	+01 03	—
78½	6.1	+12 49	+13 21	162	95	8.0	+00 31	+01 03	82
78½	6.1	+12 49	+13 21	176	95	8.0	+00 31	+01 03	186
81	7.3	+11 29	+12 00	—	95½	8.5	+00 17	+00 50	108
81	7.3	+11 29	+12 00	27	95½	8.0	+00 07	+00 39	20
81	7.3	+11 29	+12 00	65	95½	8.0	+00 07	+00 39	21
81	7.3	+11 29	+12 00	171	96	8.0	-00 17	+00 15	85
81½	7.5	+11 11	+11 43	1	96	8.0	-00 17	+00 15	169
81½	7.5	+11 11	+11 43	71	96½	8.0	-00 42	-00 09	22

