

## Map 87 inset Cimmerius Bosphorus

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### Introduction

The inset is centered upon the Straits of Kerch', known in antiquity as the Cimmerius Bosp(h)orus, apparently named after the prehistoric and semi-mythical Kimmerioi who were said to have passed through this region. For most of antiquity this was the heartland of the Bosporan kingdom, which came to reach north, east and west beyond the area shown here (Gajdukevič 1971; Alekseyeva 1988; 1997). The principal river of the inset is the Kuban, whose estuary dominates its eastern parts. The Kuban was one of the rivers named Hypanis in antiquity; it was also known, at least in its lower reaches, as the Antikeites. It connects the region with the fertile interior of the north Caucasian foreland (Map 84). Its estuary dominates the Taman' peninsula (probably ancient Eone), which is the landmass facing across the straits to modern Kerch' and the eastern Crimea.

Together with the outflow from the Sea of Azov (ancient Maeotis), the alluvium of the Kuban seems to have been a prime cause of significant changes in the coastline of the Taman' peninsula, which was evidently a more fragmented landmass in antiquity. It is often held that two channels of the Kuban emptied into the Straits. The more southerly one may be located with confidence and identified as the Coracanda. The northern channel is more in doubt: a narrow isthmus has been retained here, located on a line between Tyrambe and Kepoi. There is good evidence of an ancient dyke in this area (shown on the inset). It is usually interpreted as a means of flood control (Gajdukevič 1971, 220), and thought to have connected the inlets beside which it runs (cf. Tsvetayeva 1979, 49); but the point remains to be established securely. Mela (1.112) describes the Kuban as rendering at least part of the western Taman' "almost an island," with its two mouths entering the sea (evidently the Black Sea) and a "lake," evidently the Korokondamitis Limne

Thus it seems that the south-west and north-west portions of the Taman' peninsula were, respectively, almost an island and a true island (almost two islands), as Strabo confirms (11.2.9-10). In consequence, the cities of Phanagor(e)ia and Hermonassa stood on "islands," which bore their names (AmmMarc 22.8.30, possibly indicating earthworks and canals; StByz *Ταυρικὴ*; note also Strabo 11.2.11 on Pharnaces' canal in the region). But it was the island of Phanagor(e)ia that was the true island, often mentioned as such in inscriptions as an administrative region of the Bosporan kingdom (note evidently CIRB 40), and described by Alexander Polyhistor (StByz *Ἰπτανίς*). The Coracanda also marked the boundary of Sindike (Strabo 11.2.10, retaining Antikeites). However, the courses and identification of much of the lower Kuban must remain provisional (a possible "Sindian gulf" in the area is probably a mistranslation, despite Blavatsky 1985, 55-66).

It is widely held that at least some of the lakes of the eastern Crimea were inlets or bays of the sea in antiquity. Yet uncertainty remains, both in particular cases and in general; accordingly, even where a change of this sort since antiquity seems established, the coast is marked here as an approximation. The profile of the south-west end of the Sea of Azov has also been the subject of debate (cf. Maslennikov 1995, 93), but Strabo (7.4.1) at least confirms the existence of the Sapra Limne there. Elsewhere in the region, the sea has engulfed much that was land in antiquity. Sectors of some ancient cities have been reliably located under water, notably at Kytai (Gajdukevič 1971, 192) and Akra (Hind 1992, 100) in the Crimea, and also on the Taman' peninsula where the lower portions of the towns of Phanagor(e)ia and Kepoi are now under water (Hind 1983, 89; Dolgorukov 1990). Underwater explorations have been attempted for decades, though much remains to be done before we can reasonably identify the extent and location of all that has been engulfed by the sea since antiquity. Local traditions in particular, although conceivably sound, are still best treated with caution at present (cf. Minns 1913, 23 with Gajdukevič 1971, 218-19 on columns claimed near the Chushka Spit).

In antiquity the sea-ice of the region attracted comment by Herodotus (4.28) and others. The waters of the Straits of Kerch' (with the Sea of Azov to their north) freeze in severe weather, especially in February, as a result of a

combination of low temperatures, high wind-speeds and the low salinity of the water (cf. Maxwell 1990, 20-24). Ice appears off Kerch' in the second half of December. The ice-cover is often broken up by winds and currents, but in severe winters when the wind is from the north-west, the ice-cover is firm and an obstruction to shipping, which is also endangered by fast icing. Ice normally clears by the second half of March (Maxwell 1990, 199-200).

The peninsulas are largely flat, particularly when set beside the substantial mountains of the south-western Crimea to the west and the main range of the Caucasus to the east (cf. CIRB 113). Accordingly, Hind must be right to reject the usual identification of the Kerch' peninsula with Herodotus' "rugged peninsula." Although it could be seen as a peninsula in antiquity (AmmMarc 22.8.32), Herodotus (4.99) must refer rather to the mountainous coast between Kerkitis and Theodosia which stretches south to Ai-Todor (ancient Charax; see Map 23 H4). The Taman' peninsula could be called Eone, perhaps also Eudousia and Eulysia in Late Antiquity, though the extent of these territories remains rather unclear. The Eudousianoï are located on the Taman' peninsula in Late Antiquity (Kazanski 1991, 124-26, who sees them as Tetraxitai Goths; cf. Heather 1991, 14).

There are significant elevations on each side of the Straits which offer some contrast with the steppe-land that surrounds the Sea of Azov, particularly the so-called Mt. Mithridates whose summit bore the acropolis of Pantikapaion at Kerch' (Gajdukevič 1971, 170-71; Tolstikov 1992). These elevations offered opportunities for the siting of impressive monuments; such no doubt was the Satyrou Mnema ("Monument of Satyros") located on the Taman' peninsula (cf. Hind 1992, 105-106; Treister 1993, 562-63 on monumental sculpture of the peninsula; Gajdukevič 1971, 214 on the monument of Komosarue). The tumulus-burials of the region (kurgans), best known for their rich grave-goods, stood out against the flat landscape; they often gained height through their location on elevated ground.

Extensive ditches were formative man-made features of the landscape, particularly in the Crimea where they are still visible. Two long dykes ran north-south across the Kerch' peninsula (a third posited near Theodosia seems less certain: Gajdukevič 1971, 55; Maslennikov 1983; Vdovichenko 1986; cf. Maslennikov 1981, 23 for photos). The longer of these dykes is the more western ditch (variously known as the Ak-Kos Dyke, or Uzunlar Rampart), which seems to have been created (or perhaps better developed from forerunners) in the first century B.C. by King Asander (Strabo 7.4.6; cf. Treister 1993, 550). Localized survey and excavation suggest that it was a ditch-and-mound construction, reinforced by fortified strongpoints and further connecting ramparts. The shorter dyke is usually termed the "Tyritake Dyke," having the town of Tyritake at its southern end. The extended ditch mentioned in the region by Herodotus cannot be identified (4.3; Koltukhov 1991, 94). Ptolemy's Taphros ("Ditch") was doubtless located near such a feature (3.6.5; Zubarev 1987, 48; Kacharava 1991, 255-56). There can be no real doubt that both long dykes were strategic structures designed to control lateral movement across the eastern Crimea, not least by pastoralist Scythians (on whom see Hind 1992, 99-103; Treister 1993, 525). There seem to have been smaller dykes at other critical points, as evidently below Semenovka (Maslennikov 1981a, 78-79), while on the Taman' peninsula the purposes of flood control and defense may have coincided (on Sindoi, see Shelov 1978, 27-31).

The identification of settlements is rendered more difficult by the duplication and variation of place names. For example, Kimmeris of the north-west Taman' (unlocated: probably at Kuchugury or Il'ich) is readily confused with Kimmerikon of the south-eastern Crimea, as even in antiquity it seems. At least two places in the region seem to have borne the name Herakleion (Gajdukevič 1971, 203), while Apatouros/-on also occurs in different contexts. Similarly, the rivers Antikeites and Pantikapos on this inset are not to be confused with namesakes elsewhere in the Ukraine proper.

The whole area has been subjected to very substantial archaeological survey and excavation, but a certain unevenness should be acknowledged. In particular, although the Taman' peninsula has long been a focus of archaeology, detailed examination of its more rural areas is largely the work of recent years and much remains to be done there (cf. Sokol'skiy 1976; Paromov 1990; Abramov 1993). More has been done on the Crimean side (Kruglikova 1975 is fundamental, as is now Maslennikov 1998), but the northern coast of the peninsula has only recently been given as much attention as it deserves (cf. Treister 1993, 549-50; Maslennikov 1995). Omissions from the inset must be recognized: above all, the multitude of tiny sites located or suspected here cannot be accommodated fully at this scale. Moreover, the assignment of dates of occupation to the majority of these sites cannot be made with any confidence (cf. Abramov 1993 for an attempt).

Despite sustained effort by Zubarev (1987), the locations of places mentioned by Ptolemy in the eastern Crimea remain too unsure to mark. Further, roads are often posited, but are insufficiently attested to be shown (on

land transport, see Peters 1990; Hind 1992, 104). “Industrial activities,” notably fish-pickling at Tyritake, Salachik and elsewhere (Curtis 1991, 120-26; Vinokurov 1994), and perhaps naphtha extraction on the Taman' peninsula in Late Antiquity, are not attested outside settlements, and are therefore not identified as such on the inset.

Late Antique (and possibly Roman) levels have been neglected by Soviet scholarship, not least because it held everything after c. A.D. 400 to be “early-feudal” or medieval, not the business of classical archaeologists. Recent work, however (as at Zenonos Chersonesos, Phanagor(e)ia, Hermonassa and Kuchugury), indicates more continuity than once imagined after Hunnic and other depredations in the area (cf. Nikolayeva 1983; Kazanski 1991a, 510-12; Hind 1992, 103; Treister 1993, 559-60). On the tribulations of the Bosporan kingdom in Late Antiquity, note Blavatsky (1985, 242-60). On Goths in the Bosphorus, see Kazanski (1991, 124-26); their movements cannot be represented here.

For important surveys of the intensive archaeological and historical investigation into the Bosporan kingdom, see Hind (1983, 85-90; 1992, 99-109), Koshelenko (1984; 1992), and Treister (1993; 1994; cf. Belin de Ballu 1965; Heinen 1980). The substantial monograph of Gajdukevič distills the work of a lifetime, first published in 1949 (in Russian), and updated in its German edition of 1971; cf. Leschhorn (1993, 44-64) on local chronology. Essential for the whole Black Sea region is the place-by-place summary of Kacharava (1991), incorporating both archaeological and literary evidence.

## Directory

### Abbreviation

CIRB V.V. Struve, *Corpus Inscriptionum Regni Bosporani* (= *Korpus Bosporskykh Nadpisey*), Moscow and Leningrad, 1965

### Names

Grid	Name	Period	Modern Name / Location	Reference
J2	<i>Afanas'yevka</i>	HR	UKR	Kruglikova 1975, 106
K2	Akra	CHRL	Zavetnoye UKR	Menippus, <i>Periplus</i> 12r15; Hind 1992, 100
K2	<i>Andreyevka Yuzhnaya</i>	CH	UKR	Koshelenko 1984, 70-75
M2	Antikeites fl. § Attikites fl.	HR R	Kuban RUS	Strabo 11.2.9 Ptol. 5.8.2
L2	Apatouros Kolpos	ACHR	Phanagoreia / Taman' Bay RUS	StByz <i>Ἀπάτουρον</i>
L2	Aspourgianoï	HR	RUS	Strabo 11.2.11; RE Suppl. 9 Pontos Euxeinos, col. 1013
L2	<i>Batareyka 1</i>	HRL	RUS	Koshelenko 1984, 89-90; Kacharava 1991, 136
L2	<i>Batareyka 2</i>	HRL	RUS	Dolgorukov 1967; Kacharava 1991, 136
K2	<i>Belinskoye</i> Bosp(h)orus = Pantikapaion	R	UKR	Koshelenko 1984, 70-75
L2	<i>Bugaz</i>	CHRL	RUS	Kacharava 1991, 238
L2	Cimmerius Bosp(h)orus	CHRL	Straits of Kerch'	Strabo 7.4.5; Mela 1.7
L2	Coracanda fl.	H?R	RUS	Mela 1.112
M2	<i>Duboviy Mys</i>	C	RUS	Kacharava 1991, 25
L2	Eone	HR	Taman' peninsula RUS	Pliny, <i>NH</i> 6.18
M2	Eudousia § Eudousianoï § Eulysia	L L L	RUS	Anon., <i>PPE</i> 10r12 Kazanski 1991, 124-25 Procop., <i>Bell.</i> 8.4.7

Grid	Name	Period	Modern Name / Location	Reference
K2	<i>General'skoye</i>	HR	UKR	Koshelenko 1984, 75
K2	<i>Vostochnoye Geroyevka</i>	CH	UKR	Treister 1993, 550
L2	Hermonassa Ins.	CHRL	RUS	StByz <i>Ταυρινή</i> ; Gajdukevič 1971, 206-207
L2	Hermonassa § Hermoneia	ACHRL	RUS	StByz <i>Ἐρμόνασσα</i> ; Koshelenko 1984, 81-82; Kacharava 1991, 73-75
L2	<i>Il'ich</i>	CHR	RUS	Paromov 1986, 73
K2	Ilouraton	HR	Ivanovka UKR	Koshelenko 1984, 70-71; Kacharava 1991, 98-100
L2	<i>Kamennaya Batareyka</i>	R	RUS	Koshelenko 1984, 89
K2	<i>Karantinnaya sloboda</i>	HR	UKR	Gajdukevič 1971, 183
J2	Kazeka	RL	UKR	Kacharava 1991, 110
L2	Kepoi	ACHRL	Artyukhov / Sennaya RUS	Kacharava 1991, 125-27; Kuznetsov 1992
K2	Kimmerikon	A?CHRL	Opuk UKR	Menippus, <i>Periplus</i> 12r20; Kacharava 1991, 137-38
K2	Kimmerion Oros		Mt. Opuk UKR	Strabo 7.4.3
M2	<i>Komosarue</i>	CH	RUS	Koshelenko 1984, 82
L2	Korokondame	CHR	Tuzla RUS	Kacharava 1991, 143-44
L2	Korokondamitis/ Opissas Limne	CHRL/ L	Gulf of Taman' RUS	Menippus, <i>Periplus</i> 10r14; Anon., <i>PPE</i> 10r14
L2	<i>Krasnoarmeyskoye</i>	HRL	RUS	Koshelenko 1984, 89
L2	<i>Kuchugury</i>	CHRL	RUS	Kacharava 1991, 136; Hind 1992, 106
K2	Kytai § Kydeake § Kyta § Kytaion	CHRL	near Zavetnoye UKR	Koshelenko 1984, 71; Kacharava 1991, 139
M2	Maiotai	ACHR	RUS	Hind 1992, 105
K1	Maetis			See Map 84
K2	<i>Marfovka</i>	CH	UKR	Kruglikova 1975, 63-69
K2	<i>Mar'yevka</i>	CH	UKR	Kruglikova 1975, 58-62
K2	<i>Mikhailovka</i>	A?CHRL	UKR	Hind 1983, 87; Kacharava 1991, 40-41
L2	Myrmekion	CHR	Karantinnaya UKR	Kacharava 1991, 159-61; Vinogradov 1992
L2	Myrmekion Pr.	R	UKR	Ptol.3.6.3; Gajdukevič 1971, 180
J2	<i>Mysovoye</i>	CHR	UKR	Kacharava 1991, 70
K2	<i>Novo-Otradnoye</i>	HR	UKR	Kruglikova 1975, 114-22
K2	Nymphaion	CHR	Geroyevka UKR	Koshelenko 1984, 63-65; Kacharava 1991, 178-81
	Opissas Limne = Korokondamitis Limne			
K2	Pantikapaion/ Bosp(h)orus § Kaisareia § Apol(lonia?)	CHRL R	Kerch' UKR	Kacharava 1991, 57; Tolstikov 1992 Gajdukevič 1971, 328
K2	Pantikapes fl.		UKR	Hind 1990, 127-30
L2	Parthenion	CH	Sinyagino UKR	Strabo 7.4.5; Kacharava 1991, 217
L2	<i>Partizany</i>	H	UKR	Gajdukevič 1971, 183
L2	Patrasys § Patraeus	CHRL	Garkushi RUS	Koshelenko 1984, 86; Kacharava 1991, 218-19
L2	Phanagor(e)ia § Agrippia § Phanagoreion § Phanagorou polis § Phanagouris	CHRL R	Sennaya RUS	Kobylina 1989; Kacharava 1991, 284-88 Gajdukevič 1971, 328
L2	Phanagor(e)ia Ins.	CHRL	RUS	StByz <i>Ταυρινή</i> ; Gajdukevič 1971, 206-207

Grid	Name	Period	Modern Name / Location	Reference
L2	Porthmia § Porthmion § Porthmitis	CHRL	near Ossovinia UKR	Koshelenko 1984, 69-70; Kacharava 1991, 229
K2	<i>Salachik</i>	HR	UKR	Vinokurov 1994, 156 (no. 2)
I2	Sapra Limne	HR	Sivash UKR	Strabo 7.4.1; RE Suppl. 9 Pontos Euxeinos, cols. 880-81
I2	Satauci	R	UKR	Pliny, <i>NH</i> 4.85
L2	Satyrou Mnema	CHR	RUS	Strabo 11.2.7; Gajdukevič 1971, 220-21
K2	*Sauromateion	R	Novo-Nikolayevka (Starye-Pialy) UKR	CIRB 970; Kacharava 1991, 231-32
J2	<i>Sazonovka</i>	CH	UKR	Kruglikova 1975, 70
J2	<i>Semenovka</i>	HR1	UKR	Melyukova 1989, 50, 52
L2	Sindike § Sindoi	ACHR	RUS	Strabo 11.2.10 Anon., <i>PPE</i> 10r11; Hind 1983, 90-91
M2	<i>Stanitsa</i> <i>Blagoveshchenskaya</i>		RUS	See Map 84
M2	<i>Starotitarovskaya 1</i>	CHR	RUS	Paromov 1986, 74 (no. 121)
J2	<i>Slyusarevka</i>	CH	UKR	Kruglikova 1975, 69-70
K2	<i>Tamarino</i>	R	UKR	Kacharava 1991, 233
L2	<i>Tatarskiy</i>	HR	RUS	Tolstikov 1989, 53
L2	Tetraxitai	L	RUS	Procop., <i>Bell.</i> 8.4.9; Kazanski 1991, 124-26
I2	Theodosia § Ardabda (Heptatheos) § Theode(...) § Theudisia	CHRL L	Feodosiya UKR	Kacharava 1991, 33, 294-95
M2	Tyrambe	CHR	Stanitsa Peresyp RUS	Anon., <i>PPE</i> 12r30 Koshelenko 1984, 87; Kacharava 1991, 271-72
K2	Tyritake § Tyriktake § Tyristake § Dia	CHRL	Arshintsevo UKR	Koshelenko 1984, 67-69; Kacharava 1991, 273-75  Pliny, <i>NH</i> 4.86
M2	<i>Yubileynoye 1</i>	HR	RUS	Hind 1992, 105-106; Treister 1993, 562-63
L2	<i>Yubileynoye 2</i>	HR	RUS	Hind 1992, 105-106; Treister 1993, 562-63
M2	<i>Za Rodinu</i>	CHR	RUS	Sokol'skiy 1976, 4; Kacharava 1991, 27
K2	Zenonos Chersonesos	CHRL	UKR	Kacharava 1991, 96-97; Maslennikov 1992
K2	<i>Zolotoye 1</i>	CH	UKR	Gajdukevič 1971, 200
K2	<i>Zolotoye Vostochnoye</i>	CH	UKR	Kruglikova 1975, 98-100

## Dikes

Grid	Location	Period	Reference
L2	near Il'ich	ACHR	Abramov 1993, 45
L2	S Yubileynoye 1	HR	Hind 1992, 105-106
M2	E Tyrambe	CHR	Abramov 1993, 70
L2/M2	Sindike (6): 1) between 143 and 155; 2) between 157-162; 3) east of 136; 4) west of 137; 5, 6) east of Stanitsa Blagoveshchenskaya	ACHR	Alekseyeva 1988

## Numbered Sites

No.	Grid	Location	Period	Reference
1	I2	<i>Blizhneye Boyevoye</i> UKR	CH	Kruglikova 1975, 277
2	I2	<i>Tambovka</i> UKR	CH	Kruglikova 1975, 276
3	I2	<i>Beregovoye</i> UKR	CHR	Koshelenko 1984, 75
4	I2	<i>Dal'niye Kamyschi</i> UKR	CHR	Koshelenko 1984, 75.267
5	I2	<i>Vladislavovka</i> UKR	CH	Kruglikova 1975, 276
6	I2	<i>Frontovoye</i> UKR	CH	Kruglikova 1975, 275
7	I2	<i>Kholmogorka</i> UKR	CHR	Koshelenko 1984, 73.250-51
8	I2	<i>Yachmennaya</i> UKR	CH	Kruglikova 1975, 275
9	J2	<i>Batal'noye 2</i> UKR	CH	Kruglikova 1975, 275
10	J2	<i>Batal'noye</i> UKR	CH	Kruglikova 1975, 275
11	J2	<i>Semisotka</i> UKR	CH	Kruglikova 1975, 275
12	J2	<i>Naberezhnaya</i> UKR	CH	Kruglikova 1975, 275
13	J2	<i>Chapayevka</i> UKR	CH	Kruglikova 1975, 273
14	J2	<i>Rybnoye</i> UKR	CH	Kruglikova 1975, 274
15	J2	<i>Kazantip-Zapadnyy</i> UKR	CH	Maslennikov 1998, 90
16	J2	<i>Kazantip-Vostochnyy II</i> UKR	CHR	Maslennikov 1998, 104
17	J2	<i>Kazantip-Vostochnyy I</i> UKR	CHR	Maslennikov 1998, 104
18	J2	<i>Pesochnoye</i> UKR	CH	Kruglikova 1975, 271
19	J2	<i>Vinogradnoye</i> UKR	CH	Kruglikova 1975, 271-72
20	J2	<i>Brannoye Polye</i> UKR	CH	Melyukova 1989, 52
21	J2	<i>Il'ichevo</i> UKR	CH	Melyukova 1989, 63-64
22	J2	<i>Leninskoye</i> UKR	CH	Kruglikova 1975, 272
23	J2	<i>Lenino</i> UKR	CH	Melyukova 1989, 63
24	K2	<i>Zelyoniy Yar</i> UKR	CH	Melyukova 1989, 63
25	K2	<i>Astanino</i> UKR	CH	Melyukova 1989, 63
26	K2	<i>Zolotoy Rozhok</i> UKR	CH	Kruglikova 1975, 270
27	K2	<i>Kul'-Tepe</i> UKR	HR	Maslennikov 1981, 17
28	K2	<i>General'skoye-Zapadnoye</i> UKR	CH	Maslennikov 1998, 43
29	K2	<i>Sirenevaya Bukhta</i> UKR	R	Maslennikov 1998, 104
30	K2	<i>Polyanka</i> UKR	HR	Maslennikov 1998, 90
31	K2	<i>Zelyonny Mys</i> UKR	R	Maslennikov 1998, 104
32	K2	<i>Kezy</i> UKR	CH	Kruglikova 1975, 262
33	K2	<i>Chornaya Gora</i> UKR	HR	Maslennikov 1981, 17
34	K2	<i>Chokrakskiy Mys</i> UKR	HR	Maslennikov 1998, 33
35	K2	<i>Chokrakskiy Rodnik</i> UKR	HR	Maslennikov 1998, 43
36	K2	<i>Voykovo 8</i> UKR	CH	Kruglikova 1975, 260
37	K2	<i>Tarkhan 1</i> UKR	CH	Kruglikova 1975, 260
38	L2	<i>Temir-Gora 1</i> UKR	CHR	Kruglikova 1975, 258
39	L2	<i>Ossoviny 1</i> UKR	CHR	Kruglikova 1975, 257-58
40	L2	<i>Mayak 5</i> UKR	CHR	Kruglikova 1975, 256
41	L2	<i>Kamyenka</i> UKR	CHR	Kruglikova 1975, 257
42	L2	<i>Tsarskiy</i> UKR	CH	Koshelenko 1984, index
43	L2	<i>Temir-Gora</i> UKR	ACHR	Melyukova 1989, 62-64
44	K2	<i>Bondarenkovo 5</i> UKR	CH	Kruglikova 1975, 259
45	K2	<i>Bondarenkovo 7</i> UKR	CHR	Kruglikova 1975, 259
46	K2	<i>Voykovo 12</i> UKR	CH	Kruglikova 1975, 262-63
47	K2	<i>Voykovo 1</i> UKR	CHR	Kruglikova 1975, 259
48	K2	<i>Turkmen 1</i> UKR	CHR	Kruglikova 1975, 261
49	K2	<i>Turkmen 2</i> UKR	CHR	Kruglikova 1975, 261
50	K2	<i>Oktyabr'skoye 1</i> UKR	CH	Kruglikova 1975, 261
51	K2	<i>Kekuvatskovo</i> UKR	CH	Melyukova 1989, 52
52	K2	<i>Voskhod 2</i> UKR	CH	Kruglikova 1975, 262
53	K2	<i>Ak-Burun</i> UKR	CH	Kruglikova 1975, 262
54	K2	<i>Ak-Burunskiy</i> UKR	AC	Melyukova 1989, 64
55	K2	<i>Yuz-Oba</i> UKR	CHR	Koshelenko 1984, index
56	K2	<i>Patiniotti</i> UKR	CH	Melyukova 1989, 62-65
57	K2	<i>Zolotoy</i> UKR	CH	Melyukova 1989, 64-65
58	K2	<i>Oktyabr'skoye 5</i> UKR	CH	Kruglikova 1975, 261
59	K2	<i>Libnekhtovka</i> UKR	HR	Kruglikova 1975, 263
60	K2	<i>Andreyevka Severnaya</i> UKR	CHR	Kruglikova 1975, 261
61	K2	<i>Kul'-Oba</i> UKR	CH	Melyukova 1989, 62-65

No.	Grid	Location	Period	Reference
62	K2	<i>Tasunovo 1-2</i> UKR	CHR	Kruglikova 1975, 263
63	K2	<i>Vasil'yevka</i> UKR	CH	Kruglikova 1975, 269
64	K2	<i>Ogorodnoye</i> UKR	CH	Kruglikova 1975, 263
65	K2	<i>Churubash</i> UKR	HR	Kruglikova 1975, 269
66	K2	<i>Nimfeyskiye</i> UKR	ACH	Melyukova 1989, 63-66
67	K2	<i>Yuzhnyy Churubash</i> UKR	CH	Kruglikova 1975, 269
68	K2	<i>Geroyevka</i> UKR	CH	Kruglikova 1975, 269
69	K2	<i>Tryokhbratniye</i> UKR	CH	Melyukova 1989, 62-65
70	K2	<i>Korenkovo</i> UKR	CH	Kruglikova 1975, 268
70	K2	<i>Ogon'ki</i> UKR	CH	Kruglikova 1975, 268
71	K2	<i>Sokol'skoye</i> UKR	CH	Kruglikova 1975, 269
72	K2	<i>Kirovo</i> UKR	CH	Melyukova 1989, 52
73	K2	<i>Ptashkino</i> UKR	CH	Kruglikova 1975, 265
74	K2	<i>Koyash</i> UKR	CH	Kruglikova 1975, 266
75	K2	<i>Opuk</i> UKR	HR	Kruglikova 1975, 265
76	K2	<i>Vyaznikovo</i> UKR	CH	Kruglikova 1975, 266
77	K2	<i>Yakovenkovo</i> UKR	CH	Kruglikova 1975, 267
78	K2	<i>Dzhug-Oba</i> UKR	CHR	Koshelenko 1984, 71-72
80	K2	<i>Zavetnoye</i> UKR	CH	Kruglikova 1975, 267-68
81	K2	<i>Strelkovoye</i> UKR	CH	Kruglikova 1975, 267
82	K2	<i>Kostyrino</i> UKR	CHR	Kruglikova 1975, 268
83	L2	<i>Il'ich 5</i> RUS	CHR	Paromov 1989; Abramov 1993, 45-46
84	L2	<i>Priazovskiy 1</i> RUS	CHR	Paromov 1989; Abramov 1993, 45-46
85	L2	<i>Priazovskiy 2</i> RUS	CHR	Paromov 1989; Abramov 1993, 45-47
86	L2	<i>Priazovskiy 4</i> RUS	CHR	Paromov 1989; Abramov 1993, 45-47
87	L2	<i>Il'ich 2</i> RUS	CHR	Paromov 1989, 76-77; Abramov 1993, 45
88	L2	<i>Il'ich 4</i> RUS	CHR	Paromov 1989; Abramov 1993, 45-47
89	L2	<i>Il'ich 3</i> RUS	CHR	Paromov 1989; Abramov 1993, 46
90	L2	<i>Krasnoarmeyskiy 2</i> RUS	CHR	Paromov 1989; Abramov 1993, 47
91	L2	<i>Kuchugury 2</i> RUS	CHR	Paromov 1989; Abramov 1993, 49
92	L2	<i>Krasnoarmeyskiy 3</i> RUS	CHR	Paromov 1989; Abramov 1993, 47
93	L2	<i>Kuchugury 19</i> RUS	CHR	Paromov 1989, 76-77; Abramov 1993
94	M2	<i>Kuchugury 9</i> RUS	CHLR	Paromov 1989; Abramov 1993, 50
95	L2	<i>Fontalovskaya 6</i> RUS	CHR	Paromov 1989, 76-77; Abramov 1993, 51
96	L2	<i>Zaporozhskaya 2</i> RUS	CHRL	Paromov 1989; Abramov 1993, 46-47
97	L2	<i>Zaporozhskaya 1</i> RUS	CHR	Paromov 1989; Abramov 1993, 46
98	L2	<i>Beregovoy 1</i> RUS	CHR	Paromov 1989
99	L2	<i>Beregovoy 4</i> RUS	CH	Paromov 1989; Abramov 1993, 48-49
100	L2	<i>Garkusha 4</i> RUS	CHR	Paromov 1989, 76-77; Abramov 1993
100	L2	<i>Garkusha 2</i> RUS	CHR	Paromov 1989
102	M2	<i>Akhtanizovskaya 2</i> RUS	CHR	Paromov 1989; Abramov 1993, 54
103	M2	<i>Akhtanizovskaya 8</i> RUS	CHR	Paromov 1989
104	M2	<i>Akhtanizovskaya 3</i> RUS	CHR	Paromov 1989
105	M2	<i>Akhtanizovskaya 4</i> RUS	CHRL	Paromov 1989; Abramov 1993, 54
106	M2	<i>Golubitskaya 4</i> RUS	CHR	Paromov 1989; Abramov 1993
107	M2	<i>Golubitskaya 2</i> RUS	CHR	Paromov 1989; Abramov 1993, 66
108	M2	<i>Akhtanizovskaya 5</i> RUS	CH	Paromov 1989; Abramov 1993, 54
109	M2	<i>Akhtanizovskaya 7</i> RUS	CHR	Paromov 1989
110	M2	<i>Solenyy 3</i> RUS	CHRL	Paromov 1989; Abramov 1993, 53-54
111	L2	<i>Sennoy 9</i> RUS	CHRL	Paromov 1989, 76-77; Abramov 1993, 53
112	L2	<i>Primorskiy 17</i> RUS	CHR	Paromov 1989, 76-77
113	L2	<i>Primorskiy 10</i> RUS	CHRL	Paromov 1989
114	L2	<i>Taman' 2</i> RUS	CHR	Paromov 1989; Abramov 1993, 55-56
115	L2	<i>Taman' 3</i> RUS	CHR	Paromov 1989; Abramov 1993, 55-56
116	L2	<i>Taman' 7</i> RUS	CHR	Paromov 1989, 76-77; Abramov 1993, 55-56
117	L2	<i>Taman' 6</i> RUS	CHRL	Paromov 1989, 76-77; Abramov 1993, 56
118	L2	<i>Taman' 8</i> RUS	CHR	Paromov 1989, 76-77; Abramov 1993, 56
119	L2	<i>Taman' 9</i> RUS	CHR	Paromov 1989, 76-77; Abramov 1993, 56
120	L2	<i>Taman' 11</i> RUS	CHRL	Paromov 1989, 76-77; Abramov 1993, 56-57
121	L2	<i>Lysaya Gora</i> RUS	CH	Melyukova 1989, 99, 120
122	L2	<i>Taman' 10</i> RUS	CHR	Paromov 1989, 76-77; Abramov 1993, 56

No.	Grid	Location	Period	Reference
123	L2	<i>Taman' 4</i> RUS	CHR	Paromov 1989, 76-77; Abramov 1993, 56
124	L2	<i>Taman' 12</i> RUS	CHRL	Paromov 1989, 76-77; Abramov 1993, 57
125	L2	<i>Taman' 1</i> RUS	CHR	Paromov 1989, 76-77; Abramov 1993, 55
126	L2	<i>Volna 3</i> RUS	CHR	Paromov 1989, 76-77; Abramov 1993, 57
127	L2	<i>Volna 2</i> RUS	CH	Paromov 1989, 76-77; Abramov 1993, 57
128	L2	<i>Volna 4</i> RUS	CH	Paromov 1989, 76-77; Abramov 1993, 57-58
129	L2	<i>Tamanskiy 4</i> RUS	CHRL	Paromov 1989, 76-77; Abramov 1993, 58
130	L2	<i>Tamanskiy 2</i> RUS	HR	Paromov 1989, 72-78; Abramov 1993, 58
131	L2	<i>Zelyonskoy</i> RUS	CH	Melyukova 1989, 236
132	L2	<i>Taman' 5</i> RUS	CH	Paromov 1989, 76-77; Abramov 1993, 56
133	L2	<i>Taman' 13</i> RUS	CHR	Paromov 1989, 76-77; Abramov 1993, 57
134	L2	<i>Tamanskiy 5</i> RUS	CHRL	Paromov 1989, 76-77; Abramov 1993, 58
135	L2	<i>Tamanskiy 3</i> RUS	CHR	Paromov 1989, 72-78; Abramov 1993, 58
136	L2	<i>Veselovka 5</i> RUS	CHR	Paromov 1989, 76-77
137	L2	<i>Veselovka 4</i> RUS	CHR	Paromov 1989, 76-77
138	L2	<i>Veselovka 3</i> RUS	CHR	Paromov 1989, 76-77
139	L2	<i>Veselovka 1</i> RUS	CHR	Paromov 1989, 76-77; Abramov 1993, 59
140	L2	<i>Progress 1</i> RUS	CHR	Paromov 1989, 76-77; Abramov 1993, 59
141	L2	<i>Progress 2</i> RUS	CH	Paromov 1989, 76-77
142	L2	<i>Vinogradnyy 5</i> RUS	HRL	Paromov 1989, 76-77
143	L2	<i>Vinogradnyy 2</i> RUS	CHR	Paromov 1989, 76-77; Abramov 1993, 60
144	L2	<i>Vinogradnyy 1</i> RUS	CHR	Paromov 1989, 76-77; Abramov 1993, 59
145	L2	<i>Vasyurinskiy</i> RUS	CHR	Melyukova 1989, 98
146	L2	<i>Vinogradniy 9</i> RUS	CHRL	Paromov 1989, 76-77; Abramov 1993, 61
147	L2	<i>Primorskiy 1</i> RUS	CHR	Paromov 1989, 76-77; Abramov 1993, 60
148	L2	<i>Vinogradniy 7</i> RUS	CHR	Paromov 1989, 76-77; Abramov 1993, 60
149	L2	<i>Primorskiy 5</i> RUS	CHR	Paromov 1989, 76-77
150	L2	<i>Vyshesteblievskaya 16</i> RUS	HR	Paromov 1989, 76-77
151	L2	<i>Vyshesteblievskaya 10</i> RUS	CHRL	Paromov 1989, 76-77; Abramov 1993, 62
152	M2	<i>Vyshesteblievskaya 15</i> RUS	CHR	Paromov 1989, 76-77
153	M2	<i>Solenyy 2</i> RUS	CHR	Paromov 1989, 76-77
154	M2	<i>Bolshaya i Malaya Bliznitsa</i> RUS	CH	Kosholenko 1984, index
155	M2	<i>Vyshesteblievskaya 6</i> RUS	CHRL	Paromov 1989, 76-77; Abramov 1993, 61-62
156	M2	<i>Vyshesteblievskaya 11</i> RUS	CHRL	Paromov 1989, 76-77; Abramov 1993, 62
157	M2	<i>Starotitarovskaya 17</i> RUS	CHRL	Paromov 1989, 76-77; Abramov 1993, 65
158	L2	<i>Tsukhurskiy</i> RUS	A	Koshelenko 1984, 95
159	M2	<i>Starotitarovskaya 19</i> RUS	CHL	Paromov 1989, 76-77; Abramov 1993, 65-66
160	M2	<i>Starotitarovskaya 2</i> RUS	CHR	Paromov 1989, 76-77
161	M2	<i>Starotitarovskaya 18</i> RUS	CHRL	Paromov 1989, 76-77; Abramov 1993, 65
162	M2	<i>Starotitarovskaya 15</i> RUS	CHR	Paromov 1989, 76-77; Abramov 1993, 64
163	M2	<i>Starotitarovskaya 5</i> RUS	CHR	Paromov 1989, 76-77; Abramov 1993, 63
164	M2	<i>Starotitarovskaya 16</i> RUS	CH	Paromov 1989, 76-77; Abramov 1993, 64-65
165	M2	<i>Starotitarovskaya 4</i> RUS	HR	Paromov 1989, 76-77

## Walls

Grid	Location	Period	Reference
J2	S Semenovka	RL?	Vdovichenko 1986
K2	W *Sauromateion	CHRL?	Maslennikov 1983
K2	W Pantikapaion	CHRL?	Maslennikov 1983



## Unlocated Toponyms

Name	Period	Probable Location	Reference
Aborake	CH?R	Taman'?	Strabo 11.2.10; Kacharava 1991, 8-9
Achilleiou Kome	AC?HRL	Chushka Pr.? Il'ich?	Anon., <i>PPE</i> 10r22; Kacharava 1991, 37-38
Antissa	R	Azov	Pliny, <i>NH</i> 2.206; Kacharava 1991, 21-22
Apatouros	HR	Taman'?	Hind 1983, 89; Kacharava 1991, 24-27
Apollonia?/ Apollonis?	ACH?	Pantikapaion? UKR	Shelov 1978, 15-20; Kacharava 1991, 30
Argoda/ Ergoda	RL	E Crimea UKR	Ptol. 3.6.5; Kacharava 1991, 33
Arta	R	Straits of Kerch'?	Dilke 1985, 120-22
Asterousia	RL	Taman'?	StByz <i>Ἀστερούσια</i>
Auchis	R	Taman'?	Ptol. 5.8.27
Azabitis Tainia	R	Taman'?	Ptol. 5.8.4
Azara	R	Taman'?: Don region?	Ptol. 5.8.3; Kacharava 1991, 10
Azaraba	R	Taman'?	Ptol. 5.8.26; Kacharava 1991, 10
Badation	R	E Crimea UKR	Ptol. 3.6.5; Kacharava 1991, 40-41
Boion	R	E Crimea UKR	Ptol. 3.6.5; Kacharava 1991, 46
Diokleia	R	near Phanagoreia?	CIRB 975
Ebriapa	R	Taman'?	Ptol. 5.8.28
Gargaza	H	near Kytai? N Caucasus	DiodSic 20.23-24; RE Suppl. 9 Pontos Euxeinos, col. 1040-41; Kacharava 1991, 63-65
Gerousa polis	R	Taman'?	Ptol. 5.8.4; Kacharava 1991, 76
Herakleion	HR	3 miles E Kerch'?	Strabo 11.2.6; Kacharava 1991, 70
Herakleion	HR	Mysovka, Kazantip? UKR	Ptol. 3.6.4; Kacharava 1991, 69-70
Hermisium	R	E Crimea UKR	Pliny, <i>NH</i> 4.87; Kacharava 1991, 71
Hypanis, polis	HR	at a mouth of R. Hypanis?	StByz <i>Ἵπανις</i>
Kimbrike? kome/ Kimmerike? kome	R	NW Taman'?	Strabo 11.2.4; Kacharava 1991, 134-37
Kimmeris/ Kimmerikon Kimmerike/ Cimmerium/ Kerberias/ Cerberion	CHRL	Il'ich? Kuchugury?	Anon., <i>PPE</i> 11r30; Gajdukevič 1971, 196-97; Kacharava 1991, 135-37
Kimmerion Pr.	R	Taman'?	Pliny, <i>NH</i> 6.18 Ptol. 5.8.5
Korousia	R	Taman'?	Ptol. 5.8.28
Konopion/ Konope	R	Azov shore	Kacharava 1991, 141
Kremnoi	AC	Pantikapaion? near Taganrog?	Hind 1992, 102 ( <i>contra</i> Kacharava 1991, 147)
Mateta	R	Taman'?	Ptol. 5.8.4; Kacharava 1991, 155
Nikaia?	HR?		Kacharava 1991, 169
Ouardanes fl.	R	Taman'?	Ptol. 5.8.5
Parosta	R	E Crimea UKR	Ptol. 3.6.5; Kacharava 1991, 216
Portakra	R	E Crimea UKR	Ptol. 3.6.5; Kacharava 1991, 225
Postigia	R	E Crimea UKR	Ptol. 3.6.5; Kacharava 1991, 230
Psathis fl.	R	Taman'?	Ptol. 5.8.4, 27
Purra	R	near Azov?	Pliny, <i>NH</i> 2.206
Satarche	R	E Crimea UKR	Ptol. 3.6.5; Kacharava 1991, 232-33
Seraka	R	Taman'?	Ptol. 5.8.28
Sindikos Limen	CHRL	S Taman'?: Anapa?	Diller 1952 111; Kacharava 1991, 237-39

Name	Period	Probable Location	Reference
Skopai?	HR	Taman'?	Strabo 11.2.4
Skopelos	R	Taman'?	Ptol. 5.8.28
Sourouba	R	Taman'?' N Caucasus?	Ptol. 5.8.28
Stratoclia	C?H?R	Taman'?	Pliny, <i>NH</i> 6.18; Kacharava 1991, 248
Tabana	R	E Crimea UKR	Ptol. 3.6.5; Kacharava 1991, 248
Taphros	R	E Crimea UKR	Ptol. 3.6.5; Kacharava 1991, 255-56
Tarona	R	E Crimea UKR	Ptol. 3.6.5; Kacharava 1991, 255
Tazos	R	E Crimea UKR	Ptol. 3.6.5; Kacharava 1991, 249
Teagenis	L	E Crimea UKR	Kacharava 1991, 248
Theophanios fl.	R	Taman'?	Ptol. 5.8.3
Zephyrion	R	near Kytaiia UKR	Pliny, <i>NH</i> 4.86; Hind 1992, 100

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