

Appendix 1

Site catalogue

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The sites discovered within the DSP area of study are listed here, together with those previously known. Site names beginning with ‘DSP’ were generally in areas subject to intensive and systematic survey techniques unless otherwise stated. ‘F’ indicates ploughed fields, ‘H’ indicates hillside. Throughout, the following abbreviations for chronological periods are used: BA = Bronze Age; MBA = Middle Bronze Age; LBA = Late Bronze Age; LC = Late Classical; EH = Early Hellenistic; LH = Late Hellenistic; EM = Early Modern (18th-19th century). ‘FL’ are the official finds lists in which finds from trial trenches were recorded on the request of our Ukrainian partners. Now, the lists prevail in the archives of the institutes of archaeology of the Ukrainian Academy of Sciences in Kiev and Simferopol’ respectively.

Overview of sites

This table presents an overview of the sites, with period and general type, correlated with the landscape zone.

Site name	Period	Type	Landscape zone
(DSP06-F03-01- see Panskoe II)			
DSP06-F04-01	LC-EH	Settlement?	Pediment
DSP07-F01-01	LC-EH	Settlement	Lowland ridge/Coastal cliff
(DSP07-F01-02 – see Panskoe V)			
DSP07-F02-01	LC-EH	Settlement	Pediment
DSP07-F02-03	LC-EH	Settlement	Pediment
DSP07-F02-04	LC-EH	Settlement	Pediment
SP07-F02-05	Unknown	Kurgan	Pediment
DSP07-F03-01	LC-EH?	Kurgan group	Pediment
DSP07-F04-01	BA	Settlement	Pediment
DSP07-F04-02	LC-EH? Early Modern	Kurgan? and Settlement	Pediment
DSP07-F05-01	Early Modern	Settlement	Lowland ridge/Coastal cliff
DSP07-F05-02	BA?	Kurgan / ritual	Lowland ridge/Coastal cliff
DSP07-F06-01	LC-EH	Kurgan	Lowland ridge/Coastal cliff
DSP07-F06-02	LC-EH	Settlement?	Lowland ridge/Coastal cliff
DSP07-F06-03	LC-EH	Settlement	Lowland ridge/Coastal cliff
DSP07-F07-01	BA, LC-EH	Kurgan group	Lowland ridge/Coastal cliff
DSP07-F07-02	Unknown	Kurgan	Lowland ridge/Coastal cliff
DSP07-F08-01	LC-EH	Settlement	Lowland ridge/Coastal cliff
DSP07-F08-02	Unknown	Cadastral system	Lowland ridge/Coastal cliff
DSP08-F01-01	Unknown	Kurgan group	Lowland ridge/Coastal cliff
DSP08-F02-01	LC-EH	Settlement	Lowland ridge/Coastal cliff
DSP08-F03-01	Early Modern	Settlement	Lowland ridge/Coastal cliff

Site name	Period	Type	Landscape zone
(DSP08-F03-02 see Skalistoe 2)			
DSP08-F04-01	LC-EH	Settlement	Pediment
DSP08-F04-02	LC-EH	Settlement	Pediment
DSP08-F04-03	LC-EH	Settlement	Pediment
DSP08-F04-04	Unknown	Kurgan group	Pediment
DSP08-F04-05	Unknown	Kurgan group	Pediment
DSP08-F04-06	Modern	Settlement	Pediment
DSP08-F04-07	LC-EH	Settlement	Pediment
DSP08-F05-01	LC-EH	Settlement?	Lowland ridge/Coastal cliff
DSP08-F06-01	BA	Settlement	Lowland ridge/Coastal cliff
DSP08-F06-02	Unknown	Kurgan	Lowland ridge/Coastal cliff
DSP08-F06-03	LC-EH	Settlement	Lowland ridge/Coastal cliff
DSP07-H01-01	BA, LC-EH	Settlement	Hillsides
DSP07-H02-01	BA, LC-EH?	Double-pen	Hillsides
DSP07-H02-02	BA, LC-EH	Settlement?	Hillsides
DSP08-H02-03	Unknown	Dam	Hillsides
DSP07-H04-01	LC-EH	Settlement	Hillsides
DSP07-H04-02	Early Modern?	Settlement	Hillsides
DSP07-H04-03	Unknown	Structure?	Hillsides
DSP07-H06-01	BA/LC-EH?	Settlement	Hillsides
DSP07-H07-01	BA?/LC-EH	Settlement	Hillsides
DSP07-H07-02	BA?/LC-EH	Settlement	Hillsides
DSP07-H07-03	Early Modern?	Settlement	Hillsides
DSP07-H07-04	Early Modern?	dam	Hillsides
DSP07-H08-01	BA/LC-EH?	Settlement	Hillsides
DSP07-H08-02	Early Modern	Rectangular stone structure	Hillsides
DSP07-H09-01	Early Modern	Stone structure	Hillsides
DSP07-H09-02	Early Modern?	Stone structure	Hillsides
DSP07-H10-01	LC-EH	Settlement	Hillsides
DSP07-H11-01	LC-EH	Settlement	Hillsides
DSP08-H11-02	LC-EH	Settlement	Hillsides
DSP08-H12-01	LC-EH?	Settlement	Hillsides
DSP08-H13-01	BA?/LC-EH	Settlement?	Hillsides
DSP08-H14-01	BA/LC-EH	Settlement	Hillsides
DSP08-H15-01	Modern	Farmstead	Hillsides
DSP08-H16-01	Unknown	Settlement	Hillsides
DSP08-H17-01	Unknown	Storage site?	Hillsides
DSP08-H17-02	LC-EH?	Kurgan group	Hillsides
DSP08-H17-03	Unknown	Kurgan	Hillsides
DSP08-H18-01	LC-EH	Settlement	Hillsides
DSP08-H19-01	Unknown	Kurgan group	Hillsides
DSP08-H19-02	Unknown	Kurgan group	Hillsides
DSP08-H19-03	Unknown	Kurgan group	Hillsides

Site name	Period	Type	Landscape zone
DSP08-H19-04	LC-EH?	Kurgan group	Hillsides
DSP08-H19-05	Unknown	Kurgan group	Hillsides
DSP08-H19-06	Unknown	Kurgan group	Hillsides
DSP08-H19-07	Unknown	Kurgan group	Hillsides
DSP08-H19-08	Unknown	Kurgan group	Hillsides
DSP08-H19-09	Modern?	Area of quarries	Hillsides
DSP08-H20-01	LC-EH	Settlement?	Hillsides
DSP08-H21-01	Modern	Settlement	Hillsides
DSP08-H22-01	Unknown	Kurgan group	Hillsides
DSP08-H22-02	Unknown	Kurgan	Hillsides
DSP08-H22-03	Modern/?	Settlement/Kurgan group	Hillsides
DSP08-H23-01	Unknown	Kurgan group	Hillsides
DSP08-H23-02	LC-EH?	Settlement?	Hillsides
DSP08-H24-01	LC-EH?	Kurgan group	Hillsides
DSP08-H24-02	Unknown	Kurgan group	Hillsides
DSP08-H24-03	LC-EH?	Settlement?	Hillsides
DSP08-H25-01	Unknown	Kurgan group	Hillsides
DSP08-H25-02	?	Kurgan group?	Hillsides
DSP08-H26-01	LC-EH?	Kurgan group?	Hillsides
DSP08-H26-02	LC-EH?	Kurgan group?	Hillsides
DSP08-H27-01	Modern?	Farmstead	Hillsides
DSP08-H28-01	Modern?	Storage site?	Hillsides
Baj Kijat 1-2	MBA-LBA/LC-EH	Settlement/ash hill	?
Baj Kijat 3	LC-EH/Early Modern	Farmhouse?/settlement?	?
Burun Eli 1	LBA/Late Scythian/Med	Settlement	Lowland ridge/Coastal cliff
Burun Eli 2	LC-EH	Settlement or Farmhouse?	Lowland ridge/Coastal cliff
Burun Eli 3	LC-EH	Settlement or Farmhouse?	Lowland ridge/Coastal cliff
Burun Eli 4	LC-EH/Early Modern	Settlement/ash hill	Lowland ridge/Coastal cliff
Burun Eli 5	LC-EH/Early Modern	Settlement or Farmhouse?	Lowland ridge/Coastal cliff
Černomorskoe settlement	Cl-Roman/LR/Medieval	Fortified city	Lowland ridge/Coastal cliff
Černomorskoe farm 1	LC-EH	Farmhouse	Lowland ridge/Coastal cliff
Černomorskoe farm 2	LC-EH	Farmhouse	Lowland ridge/Coastal cliff
Černomorskoe farm 3	LC-EH/Roman	Farmhouse	Lowland ridge/Coastal cliff
Černomorskoe farm 4	LC-Hellenistic	Farmhouse	Lowland ridge/Coastal cliff
Černomorskoe farm 5	LC-EH?	Farmhouse	Lowland ridge/Coastal cliff
Černomorskoe farm 6	Unknown	Farmhouse	Lowland ridge/Coastal cliff
Černomorskoe farm 7	Unknown	Farmhouse	Lowland ridge/Coastal cliff
Černomorskoe farm 8	Unknown	Farmhouse	Lowland ridge/Coastal cliff
Černomorskoe farm 9	Unknown	Farmhouse	Lowland ridge/Coastal cliff
Džarylgač	LC-EH	Settlement?	Lowland ridge/Coastal cliff
Groty 1	LC-EH/LH	Unfortified settlement	?
Groty 2	LC-EH	Farmhouse	?
Jarylgač	LC-EH	Settlement?	Lowland ridge/Coastal cliff

Site name	Period	Type	Landscape zone
Jarylgač Severnoe	Neolithic	Settlement	Lowland ridge/Coastal cliff
Jarylgač Vostočnoe	LBA/LC-EH/Medieval	Settlement?	Lowland ridge/Coastal cliff
Kula Seich	Early Modern?	Unknown	Lowland ridge/Coastal cliff
Kurama Kostel	LC-EH/Early Modern	Settlement? Kurgan?	Pediment
Masliny 1 (Vladimirovka)	LC-EH/LH	Fortified settlement	Lowland ridge/Coastal cliff
Masliny 2	LC-EH	Settlement	Lowland ridge/Coastal cliff
Masliny 3	LC-EH	Farmhouse?	Lowland ridge/Coastal cliff
Mežvodnoe	LC-EH	Unfortified? farmhouse	Lowland ridge/Coastal cliff
Panskoe I	LC-EH/LH	Settlement	Lowland ridge/Coastal cliff
Panskoe II / DSP06-F03-01	LC-EH/LH	Settlement	Lowland ridge/Coastal cliff
Panskoe III	LC-EH	Farmhouse	Lowland ridge/Coastal cliff
Panskoe IV	LC-EH	Farmhouse	Lowland ridge/Coastal cliff
Panskoe V / DSP07-F01-02	LC-EH/LH	Settlement? Kurgans?	Lowland ridge/Coastal cliff
Severnoe 1	LBA/Early Modern	Settlement	Lowland ridge/Coastal cliff
Severnoe 2	LC-EH	Settlement?	Lowland ridge/Coastal cliff
Skalistoe 1	LC-EH	Settlement?	Lowland ridge/Coastal cliff
Skalistoe 2 / DSP08-F03-02	BA/LC-EH	Settlement	Lowland ridge/Coastal cliff
Skalistoe 3-4	LC-EH	Settlement?	Lowland ridge/Coastal cliff
Skalistoe 5	LC-EH/LH	Fortified farm/ash hill	Lowland ridge/Coastal cliff
Skalistoe 6	LC-EH	Farmhouse?/settlement?	Lowland ridge/Coastal cliff
Skalistoe 7	LC-EH	Farmhouse?	Lowland ridge/Coastal cliff
Skalistoe 8	LC-EH	Farmhouse?	Lowland ridge/Coastal cliff
Skalistoe 9	LC-EH	Settlement?/Farmhouse?	Lowland ridge/Coastal cliff
Skalistoe 10	LC-EH/LH	Farmhouse?	Lowland ridge/Coastal cliff
Veterenaja Bay	LC-EH	Farmhouse	Lowland ridge/Coastal cliff
Vladimirovka	LBA	Settlement?	Lowland ridge/Coastal cliff
Vodopojnoe 1 / DSP07-F09-01	LBA	Settlement	Lakeshore
Vodopojnoe 2	LBA/LC-EH?/ Early Modern	Settlement/kurgan/farmhouse?	Lowland ridge/Coastal cliff
Vodopojnoe 3A-B	LBA/LC-EH/ Early Modern	Settlement	Lowland ridge/Coastal cliff
Vodopojnoe 4	LBA	Settlement?	Lowland ridge/Coastal cliff
Vodopojnoe 5	LBA	Settlement?	Lowland ridge/Coastal cliff

Documentation

The data on each site are presented below including basic topographical description and the method of investigation (see Chapter 2). Sites DSP08-H19-01-03 and 05-08 consists of kurgans which were primarily measured for 3D rendering using the Total Station. The finds from the sites are discussed and analyzed in Chapter 5; the pottery from each site is tabulated in Appendix 2A and selected individual sherds are catalogued in Appendix 2B. Coordinates are given in UTM.

DSP06-F03-01 see Panskoe II

DSP06-F04-01		<i>Coordinates (centre)</i> 490107/5045265		<i>Fig.</i> 4.39
	<i>Interpretation</i> Settlement?	<i>Estimated size</i> Unknown	<i>Date range</i> LC-EH	
<i>Topography</i> DSP06-F04-01 is located in the SE corner of Field 4 about 500 m S of Lake Džarylgač				
<i>Investigations</i> Extensive survey The area with grey soils associated with amphora sherds suggests the presence of a Hellenistic site				
<i>Surface finds</i> 1 Herakleian amphora sherd, 1 Mediterranean amphora sherd (Thasos, Mende or Aegean?), 1 Mendeian amphora toe, 1 amphora toe (origin?), 1 body sherd of Herakleian fabric, 1 Hellenistic sherd, 1 flat base glazed on the interior, 1 possibly “Medieval” body sherd (i.e. Post-antique), 1 S coast amphora sherd (Sinope?), 1 unidentified sherd (not retained and therefore not included in the catalogue)				
<i>Site interpretation</i> Periphery of Hellenistic settlement?				

DSP07-F01-01 See also Panskoe I	<i>Core units</i> 1005-14, 2001-09	<i>Sample density</i> 20%	<i>Coordinates (centre)</i> 485486/5044536	<i>Figs.</i> 4.44-46, 4.33-37
	<i>Adjacent units</i> –	<i>Sample density</i>		
	<i>Interpretation</i> Settlement	<i>Estimated size</i> 250 x 250 m	<i>Date range</i> LC-EH	
<i>Topography</i> DSP07-F01-01 is located in a narrow ploughed strip in the N part of the field, directly W of the excavation location of Panskoe I. This is the highest part of the ridge between Lake Panskoe and the Bay of Džarylgač				
<i>Investigations</i> Extensive survey Grab sample 1004 Intensive survey 50 x 50 m. High-density scatter of a wide range of pottery (Geomagnetic survey was carried out at Panskoe I, directly W of the survey site, but not in the surveyed field)				
<i>Site interpretation</i> The E halo of the previously known Hellenistic settlement Panskoe I (Chapter 4.3.2.1)				

DSP07-F01-02 see Panskoe V

DSP07-F02-01	Core units 2164-65, 2205-06	Sample density 20%	Coordinates (centre) 491044/5045225	Figs. 4.49-52
	Adjacent units 2166, 2194-95	Sample density 20%		
	Interpretation Settlement	Estimated size 1 ha	Date range LC-EH	
Feature 1	Core units 2205	Sample density 20%	Coordinates (centre) 491073/5045272	
	Interpretation Structure?	Estimated size 250 m ²	Date range LC-EH	
Feature 2	Core units 2206, 2165	Sample density 20%	Coordinates (centre) 491074/5045232	
	Interpretation Structure?	Estimated size 590 m ²	Date range LC-EH	
Feature 3	Core units 2164	Sample density 20%	Coordinates (centre) 491003/5045213	
	Interpretation Structure?	Estimated size 360 m ²	Date range LC-EH	
<i>Topography</i> DSP07-F02-01 is located on a local peak in the NE ear-shaped promontory of the surveyed field				
<i>Investigations</i> Intensive survey 50 x 50 m units; total samples 2164/02, 2205/02, 2206/02. A ploughed scatter with three discrete clusters				
Geomagnetic survey T. Smekalova <i>Dimensions</i> Non-systematic search		Description of measuring conditions Many dipole anomalies		
<i>Interpretation of features</i> The data revealed no structures				
<i>Site interpretation</i> The combination of three discrete pottery concentrations with relatively high densities of transport, utility, table and handmade wares, suggests that this location was in use as a settlement. The three separate clusters may be the remains of separate buildings or households				

DSP07-F02-02	<i>Core units</i> 2100-02, 2117-19, 2146-47	<i>Sample density</i> 20%	<i>Coordinates (centre)</i> 490199/5044946	<i>Figs.</i> 4.49-50, 4.53-54
	<i>Adjacent units</i> 2104	<i>Sample density</i> 20%		
	<i>Interpretation</i> Settlement	<i>Estimated size</i> Unknown	<i>Date range</i> LC-EH	
<p><i>Topography</i> DSP07-F02-02 is located in the NW part of the field on a slight elevation overlooking a ravine, which runs towards Lake Džarylgač</p>				
<p><i>Investigations</i> Intensive survey 50 x 50 m units. TS 2101/02 (13 x 13 m in W part of Unit 2102). A discrete, relatively high-density scatter of pottery in five corner units yielding pottery from different functional groups including tablewares, amphorai and handmade material. The pottery frs. may be part of the halo or perimeter of a larger site located outside the field border. Therefore, the extent of the site remains unknown</p>				
<p><i>Site interpretation</i> The combination of several functional pottery groups in this scatter suggests the presence of a settlement</p>				

DSP07-F02-03	<i>Core units</i> 1233-34	<i>Sample density</i> 20%	<i>Coordinates (centre)</i> 490839/5044023	<i>Figs.</i> 4.49-50, 4.55
	<i>Adjacent units</i> 1228, 1230, 1259, 1261	<i>Sample density</i> 20%		
	<i>Interpretation</i> Settlement	<i>Estimated size</i> 330 m ²	<i>Date range</i> LC-EH	
<p><i>Topography</i> DSP07-F02-03 is located approximately 1.4 km S of Lake Džarylgač. The site is located uphill, but seems a bit sheltered between undulating parts of the field</p>				
<p><i>Investigations</i> Intensive survey 50 x 50 m units; TS 1233/02 and 1234/02. A small, discrete scatter of handmade pottery, amphorai, tableware and stone tools (whetting stones, grinding stones) was found</p>				
<p><i>Site interpretation</i> The presence of several types of pottery in combination with stone tools suggests that this is a small settlement site</p>				

DSP07-F02-04	<i>Core units</i> 1134, 1181	<i>Sample density</i> 20%	<i>Coordinates (centre)</i> 491358/5043919	<i>Figs.</i> 4.49-50, 4.56
	<i>Adjacent units</i> 1089, 1103-04, 1120, 1122, 1132-33, 1150-51, 1162, 1180, 1192	<i>Sample density</i> 20%		
	<i>Interpretation</i> Settlement	<i>Estimated size</i> Unknown	<i>Date range</i> LC-EH	
Feature 1	<i>Core units</i> 1181	<i>Sample density</i> 20%	<i>Coordinates (centre)</i> 491303/5043818	
	<i>Interpretation</i> Structure?	<i>Estimated size</i> ?	<i>Date range</i> LC-EH	
Feature 2	<i>Core units</i> 1134	<i>Sample density</i> 20%	<i>Coordinates (centre)</i> 491331/5044034	
	<i>Interpretation</i> Structure?	<i>Estimated size</i> ?	<i>Date range</i> LC-EH	
<i>Topography</i> DSP07-F02-04 is located uphill, S of Lake Džarylgač, in the pediment zone				
<i>Investigations</i> Intensive survey 50 x 50 m units; TS 1134/02-03. Two small discrete scatters of Hellenistic tablewares, utility wares, amphorai and handmade pottery frs. 150 m apart. Relatively high densities of archaeological material recorded in the adjacent units				
<i>Site interpretation</i> The combination of a high-density area surrounded by a halo of lower densities suggests that this is the location of a completely ploughed-out site. This site may be interpreted as a settlement based on the combination of different functional pottery groups				

DSP07-F02-05	<i>Core units</i> 1091, 1100	<i>Sample density</i> 20%	<i>Coordinates (centre)</i> 491719/5043831	<i>Figs.</i> 4.49-50
	<i>Adjacent units</i> 1090, 1125	<i>Sample density</i> 20%		
	<i>Interpretation</i> Kurgan	<i>Estimated size</i> 630 m ²	<i>Date range</i> Unknown	
<i>Topography</i> DSP07-F02-05 is located in the pediment zone, S of Džarylgač Lake.				
<i>Investigations</i> Intensive survey 50 x 50 m units. A round, ploughed-out elevation in the SE corner of the surveyed field with a diameter of about 25 m. No finds associated with the feature				
<i>Site interpretation</i> On the half-verst map, a kurgan is marked on the exact location of the ploughed-out elevation				

DSP07-F03-01	<i>Core units</i> 1361-62, 2301, 2304	<i>Sample density</i> 20%	<i>Coordinates (centre)</i> 487536/5041802	<i>Figs.</i> 4.57-60
	<i>Adjacent units</i> 1353, 2300, 2302	<i>Sample density</i> 20%		
	<i>Interpretation</i> Group of kurgans	<i>Estimated size</i> 27 x 75 m	<i>Date range</i> LC-EH?	
Feature 1	<i>Core units</i> 2301	<i>Sample density</i> 20%	<i>Coordinates (centre)</i> 487497/5041882	
	<i>Interpretation</i> Kurgan	<i>Estimated size</i> 160 m ²	<i>Date range</i> LC-EH?	
Feature 2	<i>Core units</i> 2304	<i>Sample density</i> 20%	<i>Coordinates (centre)</i> 487576/5041798	
	<i>Interpretation</i> Kurgan	<i>Estimated size</i> 360 m ²	<i>Date range</i> LC-EH?	
Feature 3	<i>Core units</i> 1361-1362	<i>Sample density</i> 20%	<i>Coordinates (centre)</i> 487569/5041737	
	<i>Interpretation</i> Kurgan	<i>Estimated size</i> 270 m ²	<i>Date range</i> LC-EH	
<i>Topography</i> DSP07-F03-01 is located on the lower extension of a hillside				
<i>Investigations</i> Intensive survey 50 x 50 m units. TS 2304/02 (on Feature 2). Three ploughed-out elevations associated with a scatter of stones				
<i>Site interpretation</i> Group of kurgans based on the shape and size of the elevations				

DSP07-F04-01	<i>Core units</i> 1400	<i>Sample density</i> 20%	<i>Coordinates (centre)</i> 490131/5044597	<i>Figs.</i> 4.61-65
	<i>Adjacent units</i> 1394, 1399, 1401, 2361-63	<i>Sample density</i> 20%		
	<i>Interpretation</i> Settlement	<i>Estimated size</i> 26 m ²	<i>Date range</i> BA	
<i>Topography</i> DSP07-F04-01 is located at the bottom of the hillside, in a wide ravine running towards Lake Džarylgač. The lake is approximately 900 m to the N				
<i>Investigations</i> Intensive survey 50 x 50 m units; TS 1400/03 and 1400/04 (each of 5 x 20 m around the find spot of the partial stone axe). A small diffuse scatter of handmade pottery frs. and part of a stone axe				
<i>Site interpretation</i> Small Bronze Age settlement?				

DSP07-F04-02	<i>Core units</i> 1388	<i>Sample density</i> 20%	<i>Coordinates (centre)</i> 490117/5044233	<i>Figs.</i> 4.61-64, 4.66-67
	<i>Adjacent units</i> 1386-87, 1389-90, 1404-06, 2356	<i>Sample density</i> 20%		
	<i>Interpretation</i> Kurgan? and Settlement	<i>Estimated size</i> 780 m ²	<i>Date range</i> LC-EH? EM	
<i>Topography</i> DSP07-F04-02 is located in the pediment zone, on the E side of a wide ravine running towards Lake Džarylgač. Lake Džarylgač is approximately 1250 m to the N				
<i>Investigations</i> Intensive survey 50 x 50 m units; TS 1388/02-07 (each 7 x 50 m N-S). Scatter of pottery and animal bones associated with small ploughed-out elevation.				
<i>Site interpretation</i> Early Modern settlement, possibly re-use of a kurgan. On the half-verst map, a kurgan is marked on this exact location, and the ruins of a village called “Džajlav” are depicted 400 m to the SW				

DSP07-F05-01	<i>Core units</i> 1502-05	<i>Sample density</i> 20%	<i>Coordinates (centre)</i> 494117/5048736	<i>Figs.</i> 4.68-73
	<i>Adjacent units</i> 1480, 1482-84, 1499-1501, 1506, 1519, 1522	<i>Sample density</i> 20%		
	<i>Interpretation</i> Settlement	<i>Estimated size</i> ?	<i>Date range</i> EM	
<i>Topography</i> DSP07-F05-01 is located on the S slope of the coastal ridge, approximately 500 m W of the present-day village of Vodopojnoe, and 1 km NW of Lake Džarylgač. It lies on the E part of a slight ridge extending towards the lake				
<i>Investigations</i> Intensive survey 60 x 60 m units; TS 1502/02 (6 x 50 m N-S in the E part of Unit 1502). A diffuse scatter of pottery was recorded in a deep-ploughed field S of the dirt road between Vodopojnoe and Mežvodnoe				
<i>Site interpretation</i> Small Early Modern settlement or road dump. On the half-verst map, no ruins or buildings are documented at this location				

DSP07-F05-02	<i>Core units</i> 2404	<i>Sample density</i> 20%	<i>Coordinates (centre)</i> 493428/5048271	<i>Figs.</i> 4.68-71, 4.74-75
	<i>Adjacent units</i> 2403, 2422, 2427	<i>Sample density</i> 20%		
	<i>Interpretation</i> Kurgan / ritual	<i>Estimated size</i> 720 m ²	<i>Date range</i> BA?	
<i>Topography</i> DSP07-F05-02 is located on a small elongated elevation on the W slope of a ridge extending towards Lake Džarylgač				
<i>Investigations</i> Intensive survey 60 x 60 m units. A diffused area with many limestone frs. One large, damaged anthropomorphic stone was observed, later to be removed by a farmer clearing his field of stones. Although no pottery was collected within the stony patch around the stele, handmade pottery dated to the Bronze Age were collected in two units SW of the stony area				
<i>Site interpretation</i> Antropomorphic stelai are known as grave markers in the Bronze Age around the Black Sea. The patch represents the remains of a ploughed-over Bronze Age kurgan				

DSP07-F06-01	<i>Core units</i> 1607	<i>Sample density</i> 20%	<i>Coordinates (centre)</i> 493970/5049021	<i>Figs.</i> 4.76-79
	<i>Adjacent units</i> 1587, 1608-09, 2525	<i>Sample density</i> 20%		
	<i>Interpretation</i> Kurgan	<i>Estimated size</i> 1,210 m ²	<i>Date range</i> LC-EH	
<i>Topography</i> DSP07-F06-01 is located on the S slope of the coastal ridge, on an elevation extending towards Lake Džarylgač				
<i>Investigations</i> Extensive survey Grab sample 1607/02 in the stony area Intensive survey 50 x 50 m units. A relatively large elevated area associated with a scatter of pottery and stones				
<i>Site interpretation</i> Kurgan?				

DSP07-F06-02	<i>Core units</i> 1579	<i>Sample density</i> 20%	<i>Coordinates (centre)</i> 494058/5049035	<i>Figs.</i> 4.76-78
	<i>Adjacent units</i> 1558, 1578, 1580	<i>Sample density</i> 20%		
	<i>Interpretation</i> Settlement?	<i>Estimated size</i> 470 m ²	<i>Date range</i> LC-EH	
<i>Topography</i> DSP07-F06-02 is located on the S slope of the coastal ridge, on the W part of a ridge extending towards Lake Džarylgač				
<i>Investigations</i> Extensive survey Grab sample 1579/02 within the stony elevated area Intensive survey 50 x 50 m units. A ploughed scatter on a small relatively stony elevation				
<i>Site interpretation</i> The presence of amphora frs. in combination with handmade pottery suggests that this may have been a settlement				

DSP07-F06-03	<i>Core units</i> 2476-77, 2519-20	<i>Sample density</i> 20%	<i>Coordinates (centre)</i> 493857/5048856	<i>Figs.</i> 4.76-77, 4.80
	<i>Adjacent units</i> –	<i>Sample density</i> 20%		
	<i>Interpretation</i> Settlement	<i>Estimated size</i> 690 m ²	<i>Date range</i> LC-EH	
Feature 1	<i>Core unit</i> 2477	<i>Sample density</i> 20%	<i>Coordinates (centre)</i> 493841/5048852	
	<i>Interpretation</i> Settlement	<i>Estimated size</i> 280 m ²	<i>Date range</i> LC-EH	
Feature 2	<i>Core unit</i> 2519	<i>Sample density</i> 20%	<i>Coordinates (centre)</i> 493879/5048858	
	<i>Interpretation</i> Settlement	<i>Estimated size</i> 280 m ²	<i>Date range</i> LC-EH	
Feature 3	<i>Core unit</i> 2519	<i>Sample density</i> 20%	<i>Coordinates (centre)</i> 493891/5048847	
	<i>Interpretation</i> Settlement	<i>Estimated size</i> 130 m ²	<i>Date range</i> LC-EH	
<i>Topography</i> DSP07-F06-03 is located in the S part of the surveyed field, just N of the dirt road between Vodopojnoe and Mežvodnoe. The site is located on the top part of an elevation sloping down from the coastal ridge towards Lake Džarylgač				
<i>Investigations</i> Intensive survey 50 x 50 m units; TS 2477/02 (25 x 25 m in the SE corner of Unit 2477); 2519/02 (25 x 50 m in the S half of Unit 2519); 2520/02 (6 x 50 m in the N half of Unit 2520). A large, ploughed-out, stony, slightly elevated area. Within the stony area, three discrete find clusters consisted of amphora and handmade pottery frs. and a fragmented ground stone tool. One pottery fr. may date to the Medieval period. <i>Adjacent units</i> yielded no finds				
<i>Site interpretation</i> The combination of utility and transport wares and a tool suggest that the three clusters may have formed a settlement				

DSP07-F07-01	<i>Core units</i> 2586, 2610-13, 2636-39	<i>Sample density</i> 20%	<i>Coordinates (centre)</i> 492978/5051041	<i>Figs.</i> 4.81-83
	<i>Adjacent units</i> 2587, 2640, 2661-62	<i>Sample density</i> 20%		
	<i>Interpretation</i> Group of kurgans	<i>Estimated size</i> –	<i>Date range</i> BA, LC-EH	
Feature 1	<i>Core unit</i> 2586	<i>Sample density</i> 20%	<i>Coordinates (centre)</i> 492960/5051144	
	<i>Interpretation</i> Kurgan	<i>Estimated size</i> 440 m ²	<i>Date range</i> LC-EH?	
Feature 2	<i>Core units</i> 2610-11	<i>Sample density</i> 20%	<i>Coordinates (centre)</i> 492978/5051096	
	<i>Interpretation</i> Kurgan	<i>Estimated size</i> 520 m ²	<i>Date range</i> LC-EH?	
Feature 3	<i>Core units</i> 2612-13, 2636-37	<i>Sample density</i> 20%	<i>Coordinates (centre)</i> 492975/5051026	
	<i>Interpretation</i> Kurgan	<i>Estimated size</i> 1,140 m ²	<i>Date range</i> BA, LC-EH	
Feature 4	<i>Core units</i> 2638-39	<i>Sample density</i> 20%	<i>Coordinates (centre)</i> 493001/5050941	
	<i>Interpretation</i> Kurgan	<i>Estimated size</i> 1,620 m ²	<i>Date range</i> LC-EH?	
<p><i>Topography</i> DSP07-F07-01 is located in the NW part of the surveyed field on the highest part of the coastal ridge. On the half-verst map, a row of eight mounds is depicted at this location. On the 1955 map, only three of these are depicted</p>				
<p><i>Investigations</i> Intensive survey 50 x 50 m units; TS 2586/02 (23 x 38 m over Feature 1); 2610/02 (20 x 25 m in the E half of Unit 2610); 2611/02 (10 x 25 m in the W half of Unit 2611); 2612/02 (23 x 36 m in the S half of Unit 2612) and 2613/02 (13 x 20 m in the SW corner of Unit 2613); 2639/02 (covering Feature 4). Four ploughed-out elevations associated with relatively many stones. Hellenistic amphora frs. were collected on Feature 3, as was part of stone axe. This tool can be dated to the Bronze Age, yet no contemporary pottery was collected. More Hellenistic amphora frs. were collected in the general area</p>				
<p><i>Site interpretation</i> A group of kurgans based on the size and shape of the elevations and the presence of mounds at this location on the half-verst map</p>				

DSP07-F07-02	<i>Core units</i> 2572-73	<i>Sample density</i> 20%	<i>Coordinates (centre)</i> 493550/5051217	<i>Figs.</i> 4.81-82, 4.84
	<i>Adjacent units</i> 2552	<i>Sample density</i> 20%		
	<i>Interpretation</i> Kurgan	<i>Estimated size</i> 470 m ²	<i>Date range</i> Unknown	
<i>Topography</i> DSP07-F07-02 is located on the highest part of the coastal ridge				
<i>Investigations</i> Intensive survey 50 x 50 m units; TS 2572/02 and 2573/02 (together a block of 22 x 35 m over the elevation). A stony, ploughed-out elevation. Handmade pottery frs. were collected in the general area of the elevation. These cannot be dated with certainty				
<i>Site interpretation</i> Kurgan based on the size and shape of the elevation				

DSP07-F08-01	<i>Core units</i> 2705-10, 2715-20, 8991-92, 9019	<i>Sample density</i> 20%	<i>Coordinates (centre)</i> 492102/5048591	<i>Figs.</i> 4.85-88
	<i>Adjacent units</i> –	<i>Sample density</i> 20%		
	<i>Interpretation</i> Settlement	<i>Estimated size</i> ca.250 x 90 m	<i>Date range</i> LC-EH	
<i>Topography</i> DSP07-F08-01 is located S of the dirt road between Vodopojnoe and Mežvodnoe, on the S slope of the coastal ridge. To the E, a slight ridge extends S towards Lake Džarylgač. SW of the site, a lagoon is cut off from the larger salt lake by a low barrier. The distance to this lagoon is 880 m				
<i>Investigations</i> Intensive survey 50 x 50 m units; TS 2706/02 (6 x 35 m in the E end of Unit 2706); 2707/02 (25 x 45 m in the W half of Unit 2707); 2709/02 (10 x 50 m in the E half of Unit 2709); 2710/02 (7 x 30 m in the E half of Unit 2710); 2719/02 (50 x 10 m in the N end of Unit 2719). This large concentration of tile, handmade pottery, table- and utility wares, amphora frs. and stone tools (whetting stone, ground stone, flint), but no clear features; the elevated strips that form site DSP07-F08-02 continue in the core of the present site				
<i>Site interpretation</i> A settlement dating to the Hellenistic period, based on the combination of pottery and stone tools. This is the only site outside Panskoe I where a part of a Hellenistic tile was found suggesting that the site may have been occupied permanently over a longer period of time				

DSP07-F08-02	Core units N part of field DSP07-F08	Sample density 20%	Coordinates (centre) 492003/5048362	Fig. 4.89
	Adjacent units –	Sample density 20%		
	Interpretation Cadastral system	Estimated size unknown	Date range Unknown	
<i>Topography</i> DSP07-F08-02 is located in the N half of ploughed field DSP07-F08 running almost N-S and E-W				
<i>Investigations</i> Intensive survey 50 x 50 m units. A system of low ridges in a ploughed field delimiting lots of approximately 80 x 90 m. The ridges occur about halfway to the S slope of the coastal ridge. They were almost completely destroyed, but are visible at the end of the day, when low sun created long shadows. Finds were generally dispersed throughout Field DSP07-F08; see DSP07-F08-01 and Chapter 4.4				
Geomagnetic survey T. Smekalova Dimensions 50 x 90 m		Description of measuring conditions Many dipole anomalies		
<i>Interpretation of features</i> The data revealed no structures				
<i>Site interpretation</i> Possible remains of a cadastral system				

DSP08-F01-01	<i>Core units</i> 5153-54, 6009-10, 6016	<i>Sample density</i> 20%	<i>Coordinates (centre)</i> 4943328/5051717	<i>Figs.</i> 4.90-93
	<i>Adjacent units</i> –	<i>Sample density</i> 20%		
	<i>Interpretation</i> Group of kurgans	<i>Estimated size</i> –	<i>Date range</i> Unknown	
Feature 1	<i>Core units</i> 5153-54, 6009-10	<i>Sample density</i> 20%	<i>Coordinates (centre)</i> 494315/5051746	
	<i>Interpretation</i> Kurgan	<i>Estimated size</i> 750 m ²	<i>Date range</i> Unknown	
Feature 2	<i>Core units</i> 6009-10, 6016	<i>Sample density</i> 20%	<i>Coordinates (centre)</i> 494327/5051717	
	<i>Interpretation</i> Kurgan	<i>Estimated size</i> 1,090 m ²	<i>Date range</i> Unknown	
Feature 3	<i>Core units</i> 6016	<i>Sample density</i> 20%	<i>Coordinates (centre)</i> 494353/5051671	
	<i>Interpretation</i> Kurgan	<i>Estimated size</i> 510 m ²	<i>Date range</i> Unknown	
<p><i>Topography</i></p> <p>The elevation is located on the highest part of the coastal ridge and is the northernmost in a row of three mounds. On the half-verst map, one mound is marked at this point, most probably the highest, southernmost mound</p>				
<p><i>Investigations</i></p> <p>Intensive survey in 40 x 50 m and 70 x 50 units. Two ploughed-out, low elevations of lighter-coloured soil than the rest of the ploughed field and a high grassy mound. The two units in which Features 1 and 2 are located yielded no finds, but in the unit directly to the E of Feature 1, eight Hellenistic sherds were collected. It is uncertain whether these are associated with the features. One Hellenistic fr. and three Medieval sherds were collected around Feature 3, but it is uncertain whether these are associated with the mound</p>				
<p><i>Site interpretation</i></p> <p>Group of kurgans based on the size and shape of the elevations, and the presence of a mound at this location on the half-verst map</p>				

DSP08-F02-01	<i>Core units</i> 8177-78, 8181	<i>Sample density</i> 20%	<i>Coordinates (centre)</i> 493131/5053076	<i>Figs.</i> 4.94-97
	<i>Adjacent units</i> 8175-76, 8179, 8182-84	<i>Sample density</i> 20%		
	<i>Interpretation</i> Settlement	<i>Estimated size</i> ca. 2.9 ha	<i>Date range</i> LC-EH	
<p><i>Topography</i> DSP08-F02-01 is located at the N end of the surveyed field, near a farmstead. This place has been in use over a longer period of time: on the half-verst map, both a farm and ruins of a village are depicted nearby. The site is located near the Black Sea coast, at the flat end of the N slope of the coastal ridge. A broad ravine was observed E of the site, which may be the remains of an old road or track. The site may extend to the N, in the uncultivated area around the farm</p>				
<p><i>Investigations</i> Intensive survey 50 x 50 m units; TS 8177/02 (5 x 50 m in the N end of Unit 8177) and 8178/02 (5 x 50 m in the S end of adjacent Unit 8178). A large discrete scatter of transport, table- and utility wares, handmade pottery and stone tools, as well as a stone sinker</p>				
<p><i>Site interpretation</i> The combination of pottery and stone tools indicates that this site was a settlement. The stone sinker and the location close to the sea suggest that part of the site's subsistence consisted of fishing</p>				

DSP08-F03-01/ Skalistoe <i>chutor</i>	<i>Core units</i> 6234	<i>Sample density</i> 20%	<i>Coordinates (centre)</i> 493929/5054031	<i>Figs.</i> 4.98-104
	<i>Adjacent units</i> 6230-33, 6235-40, 6252-56	<i>Sample density</i> 20%		
	<i>Interpretation</i> Settlement	<i>Estimated size</i> ?	<i>Date range</i> EM	
<p><i>Topography</i> DSP08-F03-01 is located in the NW corner of the surveyed field at the E side of a horseshoe-shaped depression near the coastal cliff at the end of a ravine. On the 1897 map, a farm (Skalistoe <i>chutor</i>) is depicted just outside the field border, and two wells are marked a bit further to the NW, near the coastline</p>				
<p><i>Investigations</i> Intensive survey 50 x 60 m units; TS 6234/02. Discrete scatter of pottery</p>				
<p><i>Site interpretation</i> The combination of pottery correlating with the location of a farm on the map suggests that the site was a settlement. For the Hellenistic element, see Skalistoe 2</p>				

DSP08-F03-02, see Skalistoe 2

DSP08-F04-01	<i>Core units</i> 8468-71, 8510-11	<i>Sample density</i> 20%	<i>Coordinates (centre)</i> 492102/5045538	<i>Figs.</i> 4.109-114
	<i>Adjacent units</i> 8470, 8509, 8516	<i>Sample density</i> 20%		
	<i>Interpretation</i> Settlement	<i>Estimated size</i> 2,380 m ²	<i>Date range</i> LC-EH?	
Feature 1	<i>Core units</i> 8468-8471	<i>Sample density</i> 20%	<i>Coordinates (centre)</i> 492132/5045581	
	<i>Interpretation</i> Settlement	<i>Estimated size</i> 1,370 m ²	<i>Date range</i> LC-EH?	
Feature 2	<i>Core units</i> 8510	<i>Sample density</i> 20%	<i>Coordinates (centre)</i> 492092/5045511	
	<i>Interpretation</i> Settlement	<i>Estimated size</i> 610 m ²	<i>Date range</i> LC-EH?	
Feature 3	<i>Core units</i> 8510-8511	<i>Sample density</i> 20%	<i>Coordinates (centre)</i> 492089/5045480	
	<i>Interpretation</i> Ash heap	<i>Estimated size</i> 400 m ²	<i>Date range</i> LC-EH?	
<i>Topography</i> DSP08-F04-01 is located at the N end of a slight ridge, the extension of one of the hillsides. It is located in the pediment area 750 m S of Lake Džarylgač				
<i>Investigations</i> Intensive survey 50 x 50 m units. TS 8510/02-05. A scatter of pottery on a slight elevation in grey soil. Two additional slight elevations of light-coloured soil, but no finds could be directly associated. A relatively high density of Hellenistic frs. in the general area may be associated with the site				
<i>Site interpretation</i> The combination of the ash heap, pottery and two additional discrete clusters of finds suggest that this was a small settlement				

DSP08-F04-02	<i>Core units</i> 8499-8500, 8520-21	<i>Sample density</i> 20%	<i>Coordinates (centre)</i> 491823/5045461	<i>Figs.</i> 4.109-112, 4.115-116
	<i>Adjacent units</i> 8480, 8498, 8501, 8519	<i>Sample density</i> 20%		
	<i>Interpretation</i> Settlement	<i>Estimated size</i> 2,460 m ²	<i>Date range</i> LC-EH	
Feature 1	<i>Core units</i> 8499-8500	<i>Sample density</i> 20%	<i>Coordinates (centre)</i> 491823/5045461	
	<i>Interpretation</i> Settlement	<i>Estimated size</i> 1,270 m ²	<i>Date range</i> LC-EH	
Feature 2	<i>Core units</i> 8520-21	<i>Sample density</i> 20%	<i>Coordinates (centre)</i> 491811/5045423	
	<i>Interpretation</i> Settlement	<i>Estimated size</i> 1,190 m ²	<i>Date range</i> LC-EH	
<i>Topography</i> DSP08-F04-02 is located on a local ridge top. Lake Džarylgač is approximately 580 m to the NW				
<i>Investigations</i> Intensive survey 50 x 50 m units; TS 8500/02-06 and 8521/01-02. A ploughed scatter around two discrete, relatively high-density clusters of transport, utility and handmade wares and flint on slight elevations in lighter-coloured soil				
<i>Site interpretation</i> The combination of two discrete pottery concentrations with relatively high densities of pottery and flint suggests that this location was a settlement. The two separate clusters may be the remains of two buildings or households, although more research is needed to assess this assumption				

DSP08-F04-03	Core units 8531, 8533-34, 8568-70, 8591-94	Sample density 20%	Coordinates (centre) 4913123/5045157	Figs. 4.109-112, 4.117-118
	Adjacent units 8530, 8567, 8595, 8637-38	Sample density 20%		
	Interpretation Settlement	Estimated size 4,810 m ²	Date range LC-EH	
Feature 1	Core units 8533-34, 8568-69	Sample density 20%	Coordinates (centre) 491349/5045180	
	Interpretation Structure	Estimated size 1,350 m ²	Date range LC-EH	
Feature 2	Core units 8332-33, 8569-70	Sample density 20%	Coordinates (centre) 491287/5045136	
	Interpretation Structure	Estimated size 3,460 m ²	Date range LC-EH	
<i>Topography</i> DSP08-F04-03 is located on either side of a shallow ravine which runs towards the lake. At the present, this is a shallow, marshy secondary lake, separated from the proper lake by a low natural sand barrier. The distance to this marsh is approximately 200 m. The W scatter is located on a low promontory just S of Lake Džarylgač				
<i>Investigations</i> Extensive survey GS 3005 Intensive survey 50 x 50 m units; TS 8532/02, 8534/02-03, 8568/02, 8570/02-05. Two ploughed scatters of transport, utility and table wares, one fr. of black-gloss, handmade pottery, reused sherds and flint				
Augering Five augerings in two rows across the site. The hard loam layer in Augers 2, 3 and 4 is probably a culture layer. Finds: One pottery fr. found in the topsoil of Auger 4				
Augering S1: 491278/5045157				
0-0.42 m	Topsoil, loam; 10YR 3/2. Plant remains			
0.42-0.72 m	Loam, plastic, intact layer; 10YR 5/4			
0.72-1.10 m	Loam, plastic; 10YR 5/4. Limestone inclusions			
Augering S2: 491278/5045179				
0-0.42 m	Topsoil, loam; 10YR 3/2			
0.42-0.75 m	Loam, very hard, limestone inclusions; 10YR 5/4			
0.75-1 m	Loam, very hard, compact. No inclusions; 10YR 5/4			
1-1.70 m	Loamy clay, soft, plastic, no inclusions; 10YR 5/4			
1.70-1.83 m	Loamy clay, soft, plastic, limestone inclusions; 10YR 5/4			
1.83 m-	End of auger. Bedrock			
Augering S3: 491280/5045132				
0-0.45 m	Topsoil, loam,10YR 3/2. Humus			
0.45-1.20 m	Loam, very hard, compact, intact layer. Few limestone inclusions; 10YR 5/4			
1.20-1.40 m	Loamy clay, soft; 10YR 5/4. Small stone inclusions			
Augering S4: 491282/5045107				

0-0.41 m	Topsoil, loam, humus; 10YR 3/2. One pottery fr. in core
0.41-0.80 m	Loam, compact, hard, intact; 10YR 5/4
0.80-1.05 m	Loam, compact, hard, intact. Limestone shells, 10YR 5/4
1.05-1.30 m	Loamy clay, soft, plastic, small lime inclusions; 10YR 5/4
1.30 m-	End of auger. Bedrock
Augering S5: 491285/5045058	
0-0.40 m	Topsoil, loam, 10YR 3/2
0.40-0.90 m	Loam, compact, hard, intact layer; 10YR 5/4
0.90-1.15 m	Loam; 10YR 5/4
1.15 m-	End of auger. Bedrock
<i>Site interpretation</i> The combination of finds, density and size of the two scatters suggests that this is a settlement	

DSP08-F04-04	<i>Core units</i> 8707, 8737-38, 8745, 8771, 8784, 8859	<i>Sample density</i> 20%	<i>Coordinates (centre)</i> 492100/5044905	<i>Figs.</i> 4.109-112, 4.124-126
	<i>Adjacent units</i> –	<i>Sample density</i> 20%		
	<i>Interpretation</i> Group of kurgans	<i>Estimated size</i> –	<i>Date range</i> Unknown	
Feature 1	<i>Core units</i> 8707	<i>Sample density</i> 20%	<i>Coordinates (centre)</i> 492135/5045064	
	<i>Interpretation</i> Kurgan	<i>Estimated size</i> 440 m ²	<i>Date range</i> Unknown	
Feature 2	<i>Core units</i> 8737-38	<i>Sample density</i> 20%	<i>Coordinates (centre)</i> 492137/5045007	
	<i>Interpretation</i> Kurgan	<i>Estimated size</i> 350 m ²	<i>Date range</i> Unknown	
Feature 3	<i>Core units</i> 8745, 8771	<i>Sample density</i> 20%	<i>Coordinates (centre)</i> 492099/5044905	
	<i>Interpretation</i> Kurgan	<i>Estimated size</i> 230 m ²	<i>Date range</i> BA	
Feature 4	<i>Core units</i> 8784	<i>Sample density</i> 20%	<i>Coordinates (centre)</i> 492079/5044831	
	<i>Interpretation</i> Kurgan	<i>Estimated size</i> 250 m ²	<i>Date range</i> Unknown	
Feature 5	<i>Core units</i> 8859	<i>Sample density</i> 20%	<i>Coordinates (centre)</i> 492090/5044783	
	<i>Interpretation</i> Kurgan	<i>Estimated size</i> 160 m ²	<i>Date range</i> Unknown	
<i>Topography</i> DSP08-F04-04 is located on top of a ridge extending towards Lake Džarylgač. The soil on top of the ridge is distinctly red, whereas the lower parts of the surveyed field are brownish				
<i>Investigations</i> Intensive survey 50 x 50 m units. Five grassy elevations surrounded by red soil. Feature 3 had been robbed recently. Part of a pot was found <i>in situ</i> in the W section of the robbers' trench. This feature is the fourth from the N in a cluster. Early Modern pottery frs. were found in the general area				
<i>Site interpretation</i> Group of kurgans based on the size and shape of the elevations, all marked on the half-verst map. Probably associated with DSP08-F04-13				

DSP08-F04-05	<i>Core units</i> 6581, 6602, 6617, 8805-06,	<i>Sample density</i> 20%	<i>Coordinates (centre)</i> 491960/5044468	<i>Figs.</i> 4.109-112, 4.127-128
	<i>Adjacent units</i> 6582, 6616, 6618, 8804	<i>Sample density</i> 20%		
	<i>Interpretation</i> Group of kurgans	<i>Estimated size</i> –	<i>Date range</i> Unknown	
Feature 1	<i>Core units</i> 8805-06, 6617	<i>Sample density</i> 20%	<i>Coordinates (centre)</i> 491987/5044547	
	<i>Interpretation</i> Kurgan	<i>Estimated size</i> 3,010 m ²	<i>Date range</i> Unknown	
Feature 2	<i>Core units</i> 6602	<i>Sample density</i> 20%	<i>Coordinates (centre)</i> 491960/5044468	
	<i>Interpretation</i> Kurgan	<i>Estimated size</i> 490 m ²	<i>Date range</i> Unknown	
Feature 3	<i>Core units</i> 6581	<i>Sample density</i> 20%	<i>Coordinates (centre)</i> 491925/5044409	
	<i>Interpretation</i> Kurgan	<i>Estimated size</i> 280 m ²	<i>Date range</i> Unknown	
<p><i>Topography</i> DSP08-F04-05 is located on top of a ridge extending towards Lake Džarylgač. The soil on top of the ridge is distinctly red, whereas the lower parts of the surveyed field are brownish</p>				
<p><i>Investigations</i> Intensive survey 50 x 50 m units. A large round grassy patch (Feature 1), a grassy elevation (Feature 2) and a ploughed-out slight elevation (Feature 3) all surrounded by red soil. On top of Feature 2, an iron beacon was built</p>				
<p><i>Site interpretation</i> Group of kurgans based on the size and shape of the grassy patches, all marked on the half-verst map. Probably associated with DSP08-F04-08</p>				

DSP08-F04-06	<i>Core units</i> 6521-22, 6525-26	<i>Sample density</i> 20%	<i>Coordinates (centre)</i> 492454/5044421	<i>Figs.</i> 4.109-112, 4.119-121
	<i>Adjacent units</i> 6523, 6527	<i>Sample density</i> 20%		
	<i>Interpretation</i> Settlement	<i>Estimated size</i> minimum 9,000 m ²	<i>Date range</i> LC-EH and EM	
<p><i>Topography</i> DSP08-F04-06 is located on a gentle slope at the E edge of the surveyed field, near the abandoned village of Kipčak Učkuju. A ravine may be the remains of one of the roads leading to the village as depicted on the half-verst map</p>				
<p><i>Investigations</i> Intensive survey 50 x 50 m units; TS 6526/02-06. A ploughed scatter of table, utility and transport wares. Most finds were collected in a stony ravine running roughly NE-SW. The concentration may extend to the E</p>				
<p><i>Site interpretation</i> The combination of pottery suggests that this is a settlement with two components of the Hellenistic and Early Modern period</p>				

DSP08-F04-07	Core units 6492-94	Sample density 20%	Coordinates (centre) 492104/5044144	Figs. 4.109-112, 4.122-123
	Adjacent units 6475-80, 6490-91, 6495, 6506-07	Sample density 20%		
	Interpretation Settlement	Estimated size minimum 1 ha in a 2.5 ha halo to the N, W, and S	Date range LC-EH	
<i>Topography</i> DSP08-F05-01 is located at the E edge of the surveyed field				
<i>Investigations</i> Intensive survey 50 x 50 m units; TS 6492/02-06, TS 6493/02-03. A high-density scatter of utility, table and transport wares, handmade pottery, stone tools and worked flint on a slight elevation of lighter-coloured soil. The site may well extend to the E outside the survey area				
Augering 2 augerings. Layer 2 in Auger 2, containing pottery frs., is interpreted as a culture layer. Finds: Small indeterminate frs. of pottery in Layer 2 of Augering 2				
Augering S6: 492094/5044232				
0-0.30 m	Topsoil, loam,10YR 3/2			
0.30-1.20 m	Loam, compact, hard. Very few limestone inclusions; 10YR 5/4			
1.20-2 m	Loam, plastic,10YR 5/4. Small brown clayey inclusions			
2 m-	End of auger. Bedrock			
Augering S7: 492111/5044145				
0-0.40 m	Topsoil, loam; 10YR 3/2. Mottled			
0.40-0.52 m	Loam, not hard; 10YR 4/3. Several small pieces of pottery			
0.52-1.48 m	Loam, plastic. Limestone and brown stone inclusions; 10YR 4/4			
1.48 m-	End of auger. Bedrock			
<i>Site interpretation</i> The combination of pottery, stone tools and worked flint suggests that is a settlement, possibly related to site DSP07-F08-01				

DSP08-F05-01	Core units 9024-25	Sample density 20%	Coordinates (centre) 492119/5048936	Figs. 4.129-131
	Adjacent units 9013, 9026, 9028	Sample density 20%		
	Interpretation Settlement	Estimated size Unknown	Date range LC-EH and EM	
<i>Topography</i> DSP08-F05-01 is located at the E edge of the surveyed field				
<i>Investigations</i> Intensive survey 50 x 50 m units. A ploughed scatter of table and utility wares				
<i>Site interpretation</i> The presence of table- and utility wares suggests a settlement likely extending into the unploughed field to the E				

DSP08-F06-01	Core units 9200-03, 9207-09, 9218-19	Sample density 20%	Coordinates (centre) 491200/50493218	Figs. 4.133-138
	Adjacent units 9210, 9217	Sample density 20%		
	Interpretation Settlement	Estimated size 1.9 ha	Date range BA	
Feature 1	Core units 9207-9209, 9219	Sample density 20%	Coordinates (centre) 491195/5049294	
	Interpretation Settlement	Estimated size 2,860 m²	Date range BA	
Feature 2	Core units 9201-02	Sample density 20%	Coordinates (centre) 491242/5049301	
	Interpretation Settlement	Estimated size 1,100 m	Date range BA	
<i>Topography</i> DSP08-F06-01 is located on a hillside that gently slopes down to the E. The site is not located at the highest part of the ridge and seems therefore sheltered on the N and W sides. An erosion ravine leads down from the NW to the SE, just E of the site.				
<i>Investigations</i> Intensive survey 50 x 50 m units; TS 9200/02-07; 9201/02-11; 9202/02-09; 9203/02; 9207/02-03; 9209/02; 9219/02. Two grey patches of rather stony, but also soft and ashy soil associated with a high-density, discrete scatter of handmade pottery (including decorated frs.) stone tools and large quantities of worked flint and bone material. Find densities dropped significantly outside the grey patch				
Augering 11 augerings in two crossing rows across the grey patch				
Augering S17: 491126/5049287				
0-0.50 m	Topsoil, loam, humic, appears ashy; 10YR 4/2			
0.5 m-	End of auger. Bedrock			
Augering S18: 491151/5049292				
0-0.45 m	Topsoil, loam, humic, appears ashy; 10YR 4/2			
0.45 m-	End of auger. Bedrock			
Augering S19: 491177/5049296				
0-0.35 m	Topsoil, loam, humic. Lime stone inclusions; 10YR 2/2			
0.35 m-	End of auger. Bedrock			
Augering S20: 491188/5049302				
0-0.15 m	Topsoil, loam, dry; 10YR 4/2			
0.15-0.45 m	Loam; 10YR 4/2. Ash inclusions, one piece of handmade pottery at 0.35 m			
0.45 m-	End of auger. Bedrock			
Augering S21: 491209/5049307				
0-0.30 m	Topsoil, loam; 10YR 3/2. Small pottery frs., limestone inclusions			
0.30 m-	End of auger. Bedrock			
Augering S22: 491243/5049317				

0-0.30 m	Topsoil, loam; 10YR 3/2. Small pottery frs., limestone inclusions
0.30 m-	End of auger. Bedrock
Augering S23: 491277/5049320	
0-0.42 m	Topsoil, loam, humic; 10YR 2/2. Limestone inclusions
0.42-0.60 m	Loam, plastic, limestone inclusions; 10YR 5/4
0.60 m-	End of auger. Bedrock
Augering S24: 491186/5049319	
0-0.30 m	Topsoil, loam, many limestone inclusions; 10YR 4/2
0.30 m-	End of auger. Bedrock
Augering S25: 491182/5049354	
0-0.57 m	Topsoil, loam, humic; 10YR 2/2
0.57-0.72 m	Loam, plastic, many limestone inclusions; 10YR 5/4
0.72 m-	End of auger. Bedrock
Augering S26: 491190/5049285	
0-0.48 m	Topsoil, loam, limestone inclusions; 10YR 3/2
0.48 m-	End of auger. Bedrock
Augering S27: 491193/5049256	
0-0.30 m	Topsoil, loam, humic. Some limestone inclusions; 10YR 4/2
0.30-0.35 m	Loam, slightly lighter colour, limestone inclusions
0.35 m-	End of auger. Bedrock
<i>Site interpretation</i> The combination of high pottery densities, stone tools, large quantities of worked flint and bone material suggests that this was a settlement	

DSP08-F06-02	<i>Core units</i> 9226-27	<i>Sample density</i> 20%	<i>Coordinates (centre)</i> 491078/5049324	<i>Figs.</i> 4.133-135
	<i>Adjacent units</i>	<i>Sample density</i> 20%		
	<i>Interpretation</i> Kurgan	<i>Estimated size</i> 2,500 m ²	<i>Date range</i> Unknown	
<i>Topography</i> DSP08-F06-02 is located in the E part of a larger unploughed, grassy patch, on top of a slight ridge				
<i>Investigations</i> Intensive survey 50 x 50 m units. A grassy elevation associated with large stones. No finds were collected on the actual elevation, but two possibly LC-EH sherds were collected in the area around it				
<i>Site interpretation</i> Kurgan based on the size and shape of the elevation				

DSP08-F06-03	<i>Core units</i> 9045	<i>Sample density</i> 20%	<i>Coordinates (centre)</i> 492082/50496233	<i>Figs.</i> 4.133-135, 4.139
	<i>Adjacent units</i> 9044, 9049-50	<i>Sample density</i> 20%		
	<i>Interpretation</i> Settlement	<i>Estimated size</i> Unknown	<i>Date range</i> LC-EH	
<i>Topography</i> DSP08-F06-03 is located at the NE edge of the field				
<i>Investigations</i> Intensive survey 50 x 50 m units. A small scatter of amphora frs. which probably extends into the unsurveyed field to the E				
<i>Site interpretation</i> The presence of amphora frs. suggests a settlement location, although this may be the perimeter of a site in the unploughed field to the E				

DSP07-H01-01	Core units H01	Coordinates 4895420/5040220		Figs. 4.147-158
	Adjacent units H03, H12, H19 and H25			
	Interpretation Settlement	Estimated size minimum 300 x 110 m	Date range BA, LC-EH	
Feature 1	Core units H01	Coordinates 489542/5040379		
	Interpretation Stone structure	Estimated size 35.7 x 10.4 m	Date range BA, LC-EH	
Feature 2	Core units H01	Coordinates 489546/5040357		
	Interpretation Stone structure	Estimated size 16 x 11 m	Date range BA, LC-EH	
Feature 3	Core units H01	Coordinates 489539/5040325		
	Interpretation Stone structure	Estimated size 8.5 x 6 m	Date range	
Feature 4	Core units H01	Coordinates 489555/5040319		
	Interpretation Stone structure	Estimated size 5 x 6 m	Date range BA, LC-EH	
Feature 5	Core units H01	Coordinates 489478/5040306		
	Interpretation Stone structure	Estimated size 18 x 15 m	Date range BA, LC-EH	
Feature 6	Core units H01	Coordinates 489470/5040277		
	Interpretation Stone structure	Estimated size 16 x 9.5 m	Date range BA, LC-EH	
Feature 7	Core units H01	Coordinates 489498/5040293		
	Interpretation Stone? structure	Estimated size 25.6 x 19 m	Date range BA, LC-EH	
Feature 8	Core units H01	Coordinates 489530/5040291		
	Interpretation Double pen	Estimated size Diameter ca. 21.5/38 m	Date range BA, LC-EH?	

Feature 9	Core units H01	Coordinates 489530/5040275		
	Interpretation Stone structure	Estimated size 10 x 7 m	Date range BA, LC-EH	
Feature 10	Core units H01	Coordinates 489550/5040283		
	Interpretation Stone structures?	Estimated size 30.5 x 5 m	Date range BA, LC-EH	
Feature 11	Core units H01	Coordinates 489561/5040268		
	Interpretation Stone structure	Estimated size 20 x 10 m	Date range BA, LC-EH	
Feature 12	Core units H01	Coordinates 489543/5040260		
	Interpretation Stone structure	Estimated size 8 x 5.6 m	Date range BA, LC-EH	
Feature 13	Core units H01	Coordinates 489545/5040237		
	Interpretation Stone structure	Estimated size Ca. 8 x 11 m	Date range BA, LC-EH	
Feature 14	Core units H01	Coordinates 489489/5040193		
	Interpretation Stone structure	Estimated size 11.5 x >9 m	Date range BA, LC-EH	
Feature 15	Core units H01	Coordinates 489544/5040172		
	Interpretation Stone structure	Estimated size 7 x 6 m	Date range BA, LC-EH	
Feature 16	Core units H01	Coordinates 489545/5040139		
	Interpretation Stone structure	Estimated size 21 x 7.5 m	Date range BA, LC-EH	
Feature 17	Core units H01	Coordinates 489555/5040118		
	Interpretation Stone structure	Estimated size 7.6 x 4 m	Date range BA, LC-EH	
Feature 18	Core units H01	Coordinates 489532/5040128		
	Interpretation Large cluster of pits	Estimated size 17 x 22 m	Date range LC-EH?	
Feature 19	Core units H01	Coordinates 489509/5040261		
	Interpretation Structure?	Estimated size 26.5 x 28 m	Date range BA, LC-EH	

Feature 20	Core units H01	Coordinates 489445/5040331		
	Interpretation Large cluster of pits	Estimated size 30 x 15 m Date range LC-EH?		
Topography DSP07-H01-01 is located on the NW side of Hill 1, a short wide promontory located in the upper part of the hillsides				
Investigations Intensive survey Cluster of pottery (GS 3043, 3045-46, 3049-60) associated with rectangular stone structure with double walls of standing slabs in an area with ashy soil (Feature 17). Most of the surface pottery was collected N, S and W of Feature 18 and most likely came from the household pits.				
Geomagnetic survey T. Smekalova Dimensions 90 x 270 + 100 x 20 m		Description of measuring conditions Good		
Interpretation of features Multiple linear and curve linear structures and features are visible in the data situated 25-40 m apart. In the S part are five single or double-room stone structures with possible hearths in three of them (Features 15-17). Feature 16 consists of three such, possibly overlapping structures of different orientations. Directly W of these is a cluster of 33 household pits (Feature 18). 67 m to the N is part of a possibly rectangular, stone structure (Feature 4). The N end of the surveyed area appears to consist of a large number of regular and irregular stone structures located around a double pen. The double pen consists of a circular enclosure inside a larger one (Feature 8). Some structures overlap the pen (Features 9-10). Features 3-4, 9-13 consists of individual or groups of single or double-room structures. Features 2 and 5-6 are multiple structures of irregular shape. Feature 1 is probably also a multiple-room structure, but the shape appears to be rectangular and three large pits are located inside the building. Feature 17 is a roughly horseshoe-shaped structure open towards the SW with an indication of possible post holes or bases for posts. Feature 19 is a large poorly preserved feature. NW of Feature 5 is another large cluster of household pits (Feature 20). The long linear anomalies which appear to cut under the site (equipment lifted when crossing over the large stones) are remains of recent agricultural processes				
Excavation P. Guldager Bilde, S. Lancov, E.Weistra, interpreted by S. Lancov				
Feature 5	Coordinates 489472/5040297	Trench dimensions 2 x 2 m	Features Field stones on floor/collapsed wall?	
Description of stratigraphy by layer: 0-1,1 m 1) Ashy topsoil: 0-0.30.5 m (FL 6:1-4) 2) Ashy yellow loam with field stones and rock frs. on a ashy bed: 0.3-0.85 m (FL 6:5-10) 3) Loose yellow loam: 0.45-0.85 m (FL 6:11-15) 4) Hard yellow loam: 0.85-1.1 m (FL 6:16-18)				
Finds Pottery, bone and shells		Date range BA and LC-EH	Interpretation Stone structure	
Feature 18	Coordinates 489556/5040112	Trench dimensions 3.2 x 2.9 m	Features Circular pit	
Description of stratigraphy by layer: 0-1.2 m 1) Top soil: 0-0.2 m (FL 4) 2) Looser yellow loam with rock frs.: 0.15-0.25 m (FL 2) 3) Sterile yellow loam: top level 0.25 m Circular pit of dark looser soil, 0.9 m deep. Top D: 0.95 m. Bottom D: 1.15-1.2 m 1) Looser yellow loam with rock frs.: 0.25-0.4 m (FL 3) 2) Dark ashy phosphorous soil with small stones. Top level 0.4-0.8 m (FL 1 and 5) 3) Sterile yellow loam. Top level 0.55 m				
Finds Pottery, animal bones		Date range LC-EH	Interpretation Household pit	

Site interpretation

A complex settlement including at least 16 roughly rectangular, single and multiple-room, stone structures and a double pen associated with the keeping of live stock. The settlement includes at least two phases: a Bronze Age phase and a Hellenistic phase. The structures overlapping the double pen suggest that this was not in use during both phases

DSP07-H02-01	Core units H02	Coordinates 490946/5040687		Figs. 4.159-163
	Adjacent units H07, H17 and H25			
	Interpretation Double pen	Estimated size Diameter 28/48 m	Date range BA, LC-EH?	
Feature 1	Core units H02	Coordinates 490908/5040623		
	Interpretation Double pen	Estimated size Diameter 28/48 m	Date range BA	
Feature 2	Core units H02	Coordinates 490950/5040717		
	Interpretation Stone structure?	Estimated size Ca. 7 x 4 m	Date range BA	
<i>Topography</i> DSP07-H02-01 is located on a small promontory on the NE edge of Hill 2, a short wide promontory located in the upper part of the hillsides				
<i>Investigations</i> Extensive survey Area with ash-rich soil. In this general area, GS 3077-82 were collected, but their precise location was not recorded. According to the original report, handmade Bronze Age sherds and a flint tool were collected in this area, which suggests that 3081 was sampled at DSP07-H02-01. From Google Earth can clearly be distinguished a significant ash concentration between two small streams at the promontory’s northern end (Fig. 4.159)				
Geomagnetic survey T. Smekalova Dimensions 65 x 700 + 30 x 30 m		Description of measuring conditions Good		
<i>Interpretation of features</i> The data revealed a double pen consisting of a circular enclosure inside a larger one. There appears to be a small stone structure ca. 3 m N of the double pen. The long linear anomalies are remains of recent agricultural processes				
<i>Site interpretation</i> A double pen associated with the keeping of live stock during the Bronze Age possibly also associated with the Bronze Age?/ Hellenistic settlement DSP07-H02-02				

DSP07-H02-02	Core units H02	Coordinates 490782/5040925		Figs. 4.159-162, 4.165
	Adjacent units H07, H17 and H25			
	Interpretation Settlement?	Estimated size 100 x 70	Date range BA and LC-EH	
Feature 1	Core units H02	Coordinates 490760/5040975		
	Interpretation Stone structure	Estimated size 11 x 9 m	Date range BA and LC-EH	
Feature 2	Core units H02	Coordinates 490814/5040936		
	Interpretation Stone structure	Estimated size minimum 7 x 7 m	Date range BA and LC-EH	
Feature 3	Core units H02	Coordinates 490799/5040930		
	Interpretation Stone structure	Estimated size 10 x 10 m	Date range BA and LC-EH	
Feature 4	Core units H02	Coordinates 490766/5040917		
	Interpretation Stone structure	Estimated size 14 x 14 m	Date range BA and LC-EH	
Feature 5	Core units H02	Coordinates 490809/5040890		
	Interpretation Stone structure	Estimated size 16 x 10 m	Date range BA and LC-EH	
<i>Topography</i> DSP07-H02-02 is located on the N tip of Hill 2, a short wide promontory located in the upper part of the hillsides				
<i>Investigations</i> Extensive survey Three stone structures with double walls of standing slabs were observed, but not recorded. In the same general area GS 3077-82 were collected, but their precise location was not recorded. According to the original report, Hellenistic handmade and wheelmade sherds were collected in this area				
Geomagnetic survey T. Smekalova Dimensions ca. 130 x 60 m		<i>Description of measuring conditions</i> The bedrock is close to the surface		
<i>Interpretation of features</i> Five, roughly rectangular, stone structures visible in the data situated 25-40 m apart. Two single-room ones (Features 2-3), a double-room one (Feature 5) and a multiple-room one with four pits inside (Feature 1). Feature 4 appears somewhat irregular in shape reconstructed as an ante-building open towards the N with a possible line of post holes or bases for posts				
<i>Site interpretation</i> Small Bronze Age?/Hellenistic settlement probably associated with the keeping of live stock as indicated by DSP07-H02-02 which appears to have been originally constructed in the Bronze Age				

DSP08-H02-03	<i>Core units</i> H02	<i>Coordinates</i> 491007/5040710		<i>Figs.</i> 4.159-163
	<i>Adjacent units</i> H07, H17 and H25			
	<i>Interpretation</i> Dam	<i>Estimated size</i> Length 10-15 m	<i>Date range</i> Unknown	
<i>Topography</i> In the E ravine of Hill 2, a short wide promontory located in the upper part of the hillsides				
<i>Investigations</i> Extensive survey Remains of double wall of large stone blocks blocking the ravine				
<i>Site interpretation</i> Dam possibly related to the settlement on Hill 2 (see DSP07-H02-01-02)				

DSP07-H04-01	Core units H04	Coordinates 486244/5038519	Figs. 4.166-169	
	Adjacent units H05, H09 and H22			
	Interpretation Settlement	Estimated size minimum 6,900 m ²	Date range LC-EH	
Feature 1	Core units H04	Coordinates 486269/5038555		
	Interpretation Rectangular stone structure	Estimated size 8 x 6 m	Date range LC-EH	
Feature 2	Core units H04	Coordinates 486289/5038549		
	Interpretation Rectangular stone structure	Estimated size 6 x 6 m	Date range LC-EH	
Feature 3	Core units H04	Coordinates 486194/5038518		
	Interpretation Rectangular stone structure	Estimated size 17 x 13 m	Date range LC-EH	
Feature 4	Core units H04	Coordinates 486177/5038478		
	Interpretation Rectangular stone structure	Estimated size 11.5 x 9.5 m	Date range LC-EH	
<i>Topography</i> DSP07-H04-01 is located on the tip of Hill 4, a small promontory in the upper part of the hillsides. The SW edge of the promontory was currently cultivated				
<i>Investigations</i> Intensive survey Small cluster of pottery (GS 3068-3072) roughly associated with four rectangular stone structures				
<i>Site interpretation</i> Small settlement?				

DSP07-H04-02	<i>Core units</i> H04	<i>Coordinates</i> 486536/5038488		<i>Figs.</i> 4.166-167, 4.170-171
	<i>Adjacent units</i> H05, H09 and H22			
	<i>Interpretation</i> Settlement	<i>Estimated size</i> Unknown	<i>Date range</i> EM?	
Feature 1	<i>Core units</i> H04	<i>Coordinates</i> 486545/5038538		
	<i>Interpretation</i> Cluster of pits	<i>Estimated size</i> ?	<i>Date range</i> EM?	
Feature 2	<i>Core units</i> H04	<i>Coordinates</i> 486531/5038431		
	<i>Interpretation</i> Stone structure	<i>Estimated size</i> 16.5 x 17 m	<i>Date range</i> EM?	
<i>Topography</i> DSP07-H04-02 is located on the NE edge of Hill 4 spreading into the shallow ravine on the NE side of the hill, which is a small promontory in the upper part of the hillsides				
<i>Investigations</i> Extensive survey Several pits (Feature 1) indicated by vegetation and rubble associated with a single sherd (GS 3075) Intensive survey Stone foundation (Feature 2), but no finds associated				
<i>Site interpretation</i> Small Early Modern settlement				

DSP07-H04-03	<i>Core units</i> H04	<i>Coordinates</i> 486899/5037905		<i>Figs.</i> 4.166-167, 4.172
	<i>Adjacent units</i> H05, H09 and H22			
	<i>Interpretation</i> Structure?	<i>Estimated size</i> 0.04 ha	<i>Date range</i> Unknown	
<i>Topography</i> DSP07-H04-03 is located at the S end of Hill 4, a small promontory in the upper part of the hillsides. The SW edge of the promontory was cultivated				
<i>Investigations</i> Intensive survey Patch of vegetation indicating subsurface structures associated with one sherd (GS 3074)				
<i>Site interpretation</i> Storage site?				

DSP07-H05-01	<i>Core units</i> H05	<i>Coordinates</i> 486580/5037209		<i>Fig.</i> 4.173
	<i>Adjacent units</i> H04, H05, H22			
	<i>Interpretation</i> Structure? Settlement?	<i>Estimated size</i> 7 x 4 m	<i>Date range</i> Unknown	
<i>Topography</i> DSP07-H05-01 is located at the S end of Hill 5, a small promontory in the upper part of the hillsides				
<i>Investigations</i> Intensive survey Possible structure made of large stones. No finds				
<i>Site interpretation</i> Settlement site? An ash accumulation at the N tip of the promontory can clearly be distinguished on Google Earth (Fig. 4.167)				

DSP07-H06-01	Core units H06, 20002 and 20007	Coordinates 491658/5041721		Figs. 4.233-236
	Adjacent units H17 and H26			
	Interpretation Settlement	Estimated size minimum 70 x 90	Date range BA/LC-EH?	
Feature 1	Core units H06	Coordinates 491674/5041721		
	Interpretation Double pen	Estimated size Diameter 28 and 45 m	Date range	
Feature 2	Core units H06	Coordinates 491666/5041755		
	Interpretation Stone structure	Estimated size 9 x 6 m	Date range	
<i>Topography</i> DSP07-H06-01 is located on the ridge of Hill 6, a small promontory in the upper part of the hillsides				
<i>Investigations</i> Extensive survey Pottery (GS 3085, 2007 FL 8) associated with a stone structure. A stone block with a small circular depression possibly from a post was recorded Intensive survey A rather diffused cluster of pottery and flint (20002/01-02, 20007/02-03, 3201-03)				
Geomagnetic survey T. Smekalova Dimensions 100 x 100 m		Description of measuring conditions Good		
<i>Interpretation of features</i> The data revealed a double pen consisting of a circular enclosure inside a larger one (Feature 1) associated with a small irregular, stone double-room structure to the NE (Feature 2). The long linear anomalies which cut across the site are remains of recent agricultural processes				
<i>Site interpretation</i> Small settlement associated with the keeping of livestock probably occupied during the Bronze Age				

DSP07-H07-01	Core units H07	Coordinates 490573/5041333		Figs. 4.174-176
	Adjacent units H02, H17 and H25			
	Interpretation Settlement	Estimated size minimum 44 x 24 m	Date range BA?/LC-EH	
Feature 1	Core units H07	Coordinates ?		
	Interpretation Stone structure	Estimated size ?	Date range BA?/LC-EH	
Feature 2	Core units H07	Coordinates 490567/5041340		
	Interpretation Stone structure	Estimated size 20 x 13 m	Date range BA?/LC-EH	
Feature 3	Core units H07	Coordinates 490569/5041320		
	Interpretation Road/path	Estimated size minimum 37 m	Date range BA?/LC-EH	
Feature 4	Core units H07	Coordinates 490582/5041324		
	Interpretation Cluster of pits	Estimated size 84 m ²	Date range BA?/LC-EH	
<i>Topography</i> DSP07-H07-01 is located on the E edge of the lower part of Hill 7, a long slope running from the top ridge to the cultivated zone				
<i>Investigations</i> Extensive survey Two rectangular stone structures with double walls built with standing slabs associated with nine sherds, five of Hellenistic date (GS 3062-63 and 2007 FL 9)				
Geomagnetic survey T. Smekalova Dimensions 50 x 65 m		Description of measuring conditions Good		
Interpretation of features Rectangular, double-room stone structure with one interior pit and four exterior ones (Feature 2). A road leads up to the building on the W side (Feature 3). Due S is a cluster of 12 pits (Feature 4). The long linear anomalies which pass on the SE side of the site are remains of recent agricultural processes				
Site interpretation Small settlement possibly associated with DSP07-H07-02				

DSP07-H07-02	Core units H07	Coordinates 490168/5041704		Figs. 4.174, 4.177
	Adjacent units H02, H17 and H25			
	Interpretation Settlement	Estimated size minimum 140 x 30 m	Date range BA?/LC-EH	
Feature 1	Core units H07	Coordinates 490108/5041684		
	Interpretation Stone structure	Estimated size 10 x 15 m	Date range BA?/LC-EH	
Feature 2	Core units H07	Coordinates 490215/5041750		
	Interpretation Jurt?	Estimated size Diameter 18 m	Date range BA?/LC-EH	
Feature 3	Core units H07	Coordinates 490217/5041714		
	Interpretation Fence	Estimated size minimum 35 m	Date range BA?/LC-EH	
<i>Topography</i> DSP07-H07-02 is located N of DSP07-H07-01 on the E edge of the lower part of Hill 7, a long slope running from the top ridge to the cultivated zone				
<i>Investigations</i> Extensive survey Intense vegetation and multiple-room, stone structure built with standing slabs associated with eight sherds of amphorai and jugs (2007 FL 10)				
Geomagnetic survey T. Smekalova Dimensions 30 x 60 and 50 x 50 m		Description of measuring conditions Some dipole anomalies		
<i>Interpretation of features</i> Rectangular, multiple-room, stone structure associated with metal debris (Feature 1). 50 m NE is a round structure made up of 17 to 20 post-holes or bases for posts with four pits inside, possibly a jurt (Feature 2). To the S is a long linear anomaly possibly a fence (Feature 3)				
<i>Site interpretation</i> Small settlement possibly associated with DSP07-H07-01				

DSP08-H07-03	Core units 20064-65	Coordinates 490257/5040112		Figs. 4.304-307
	Adjacent units H02, H17 and H25	Date range EM?		
	Interpretation Settlement	Estimated size 5,500 m ²	Date range EM?	
Feature 1	Core units 20064	Coordinates 490260/5040151		
	Interpretation Ash hill	Estimated size Diameter ca. 23 m	Date range EM?	
Feature 2	Core units 20065	Coordinates 490208/5040141		
	Interpretation Ash hill	Estimated size Diameter 17 m	Date range EM	
Feature 3	Core units 20064	Coordinates 490277/5040139		
	Interpretation Rectangular stone structure	Estimated size 9 x 7 m	Date range EM?	
Feature 4	Core units 20065	Coordinates 490226/5040128		
	Interpretation Rectangular stone structure	Estimated size 8 x 2.5 m	Date range EM?	
Feature 5	Core units 20064	Coordinates 490254/5040134		
	Interpretation Rectangular stone structure	Estimated size 5.5 x \approx 3 m	Date range EM?	
Feature 6	Core units 20064	Coordinates 490249/5040127		
	Interpretation Rectangular stone structure	Estimated size 8 x 5 m	Date range EM?	
Feature 7	Core units 20064	Coordinates 490241/5040117		
	Interpretation Group of hearths	Estimated size 38 m ²	Date range EM?	
Feature 8	Core units 20064	Coordinates 490276/5040120		
	Interpretation Rectangular? stone structure	Estimated size Length 17 m	Date range EM?	

Feature 9	<i>Core units</i> 20064-20065	<i>Coordinates</i> 490263/5040098		
	<i>Interpretation</i> Rectangular earth bank	<i>Estimated size</i> Length >105 m	<i>Date range</i> EM?	
<i>Topography</i> DSP08-H07-03 is located in the central part of Hill 7 on the top of the ridge				
<i>Investigations</i> Extensive survey Ash hill associated with a single tiny sherd and several stone structures. A later visit yielded a small cluster of pottery on and around the ash hill (GS 3221) Intensive survey Two ash hills (Features 1-2) and three possible rectangular stone structures of double walls (Features 3-4 and 8) were recorded associated with a few tiny sherds (20064-65)				
Geomagnetic survey Eastern Atlas Dimensions 100 x 78 m		<i>Description of measuring conditions</i> Some dipole anomalies		
<i>Interpretation of features</i> Archaeological features are noticeable in the NW corner, SW of the ash hill. Three rectangular buildings with one or two rooms show up as weak, white (negative) anomalies (Features 4-6). Three strong possible anomalies with a white "halo" are most likely former fireplaces (Feature 7). Several pits most likely of archaeological origin are located in and around the structures, but also random pattern of small pits. To the S, the data are less disturbed, probably due to a thicker soil horizon. The whole site is pervaded by linear features that either belong to roads/paths or agricultural patterns (Feature 9). A circular feature in the centre is of modern origin				
<i>Site interpretation</i> Early Modern settlement probably associated with DSP08-H07-04 located 110 m to the SW. The geomagnetic survey did not cover the entire site which consists of a total of five possible stone structure and two ash hills				

DSP07-H07-04	Core units H07	Coordinates 490105/5040058		Figs. 4.304, 4.308
	Adjacent units H02, H17 and H25			
	Interpretation Dam	Estimated size 48 x 30.5 m	Date range EM?	
<i>Topography</i> DSP07-H07-04 is located in a shallow ravine at the W side of Hill 7, on the top of the ridge, 110 m SW of DSP07-H07-03				
<i>Investigations</i> Extensive survey Two interlocking L-shaped earth banks, but no artefacts associated				
<i>Site interpretation</i> A dam which is probably associated with DSP08-H07-03				

DSP07-H08-01	<i>Core units</i> 20008-9, 20013-16	<i>Coordinates</i> 493206/5042276		<i>Figs.</i> 4.248-256
	<i>Adjacent units</i> H16 and H20			
	<i>Interpretation</i> Settlement	<i>Estimated size</i> 2.8 ha	<i>Date range</i> BA, LC-EH?	
Feature 1	<i>Core units</i> 20013	<i>Coordinates</i> 493290/ 5042399		
	<i>Interpretation</i> Stone structure	<i>Estimated size</i> 10.5 x \approx 13 m	<i>Date range</i> BA	
Feature 2	<i>Core units</i> 20013-14	<i>Coordinates</i> 493252/5042355		
	<i>Interpretation</i> Double pen	<i>Estimated size</i> Diameter 22 and 30 m	<i>Date range</i> BA	
Feature 3	<i>Core units</i> 20013	<i>Coordinates</i> 493289/5042342		
	<i>Interpretation</i> Stone structure	<i>Estimated size</i> 6 x 10 m	<i>Date range</i> BA	
Feature 4	<i>Core units</i> 20014	<i>Coordinates</i> 493231/5042368		
	<i>Interpretation</i> Stone structure	<i>Estimated size</i> 10.5 x 4 m	<i>Date range</i> BA, LC-EH?	
Feature 5	<i>Core units</i> 20014-15	<i>Coordinates</i> 493251/5042375		
	<i>Interpretation</i> Cluster of pits?	<i>Estimated size</i> 560 m ²	<i>Date range</i> BA, LC-EH?	
Feature 6	<i>Core units</i> 20015	<i>Coordinates</i> 493176/5042225		
	<i>Interpretation</i> Stone structure	<i>Estimated size</i> 12.5 x \approx 7 m	<i>Date range</i> BA, LC-EH?	
Feature 7	<i>Core units</i> 20016	<i>Coordinates</i> 493132/5042237		
	<i>Interpretation</i> Stone structure	<i>Estimated size</i> 11.5 x 10 m	<i>Date range</i> BA, LC-EH?	
Feature 8	<i>Core units</i> 20015-16	<i>Coordinates</i> 493151/5042205		
	<i>Interpretation</i> Complex stone structure/structures	<i>Estimated size</i> 60 x 22 m	<i>Date range</i> BA, LC-EH?	
Feature 9	<i>Core units</i> 20016	<i>Coordinates</i> 493126/5042211		
	<i>Interpretation</i> Stone structure	<i>Estimated size</i> 11 x 15 m	<i>Date range</i> BA, LC-EH?	

Feature 10	Core units 20016	Coordinates 493114/5042179		
	Interpretation Stone structure	Estimated size 7 x 7 m	Date range BA, LC-EH?	
Feature 11	Core units 20015-16	Coordinates 493101/5042128		
	Interpretation Complex stone structure	Estimated size 16 x 9 and 22 x 29 m	Date range BA, LC-EH?	
Feature 12	Core units 20015	Coordinates 493128/5042104		
	Interpretation Stone structure	Estimated size 5 x 4.5 m	Date range BA, LC-EH?	
<i>Topography</i> DSP07-H08-01 is located along the W edge of Hill 8, a short shallow promontory between two high promontories on the lower part of the hillsides				
<i>Investigations</i> Extensive survey A cluster of Bronze Age pottery (GS 3095, 2007 FL 11-12) associated with stone structures in an area of ashy soil with intense vegetation Intensive survey One discrete cluster of pottery (20013/01-02, 20014/01-02 and 20015/01-03) associated with two stone structures (Features 2 and 4) and six possible pits indicated by intense vegetation (Feature 5) all within a larger area of diffused intense vegetation of 0.87 ha. Another less discrete cluster of pottery and flint is located approximately 100 m to the SW (20015/04-10 and 20016/04). Further 100 m to the SW are the remains a stone structure (Feature 11) associated with a small cluster of finds (20016/01-03) in a larger area of greener, grassier vegetation				
Geomagnetic survey T. Smekalova Dimensions 1.25 ha		Description of measuring conditions Some dipole anomalies		
<i>Interpretation of features</i> The data revealed a complex site with several types of stone structures. In the N end is a large double pen consisting of a circular enclosure inside a larger one (Feature 2) associated with two irregular structures (Features 1 and 3). Feature 4 to the E of the double pen is obscured by dipole anomalies. 120 m to the S is a complex cluster of rectangular (Features 6-7 and 9) and irregular structures mostly of different orientation, although one long wall links a cluster of walls (Feature 8). The long linear anomalies which cross the site are remains of recent agricultural processes				
Geomagnetic survey Eastern Atlas Dimensions 210 x 48 m		Description of measuring conditions Rare dipole anomalies		
<i>Interpretation of features</i> Rectangular structure with pits inside and around it 80 m SW of Feature 8 (Feature 10). Small cluster of small pits 15 m S of this. Another complex further S consisting of a rectangular multi-room structure associated with curved walls to the SW and NW (Feature 11). Large irregular pits inside and around the northernmost room and the small curved structure NE of this. A small square structure 9 m to the SW (Feature 12)				
Excavation V. Stolba, S. Lancov and P. Gecko.				
Feature 2	Coordinates 493248/5042340	Trench dimensions 2 x 3 m	Features Broad/collapsed stone wall	

Description of stratigraphy by layer: 0-0.75 m 1) Topsoil: 0-0.2 m (FL bag 18) 2) Loose dark soil: 0.2-0.3 m (FL bags 19-20) 3) Layer of ashy soil with a broad, double stone wall constructed from large blocks and filled with rubble: top level 0.1 m. Bottom level: 0.4 m. Thickness: 1.6 m. Preserved H: 0.35 m 4) Yellowish loam with concentration of small stones in the W corner: 0.3-0.65 m. Concentration of animal bones (FL bags 21-26 and 32) 5) Sterile loam: top level 0.45-0.65 m			
<i>Finds</i> Handmade pottery, animal bones		<i>Date range</i> BA	<i>Interpretation</i> Double pen
Feature 7	<i>Coordinates</i> 493134/5042240	<i>Trench dimensions</i> 2 x 2 m	<i>Features</i> Collapsed stone wall
Description of stratigraphy by layer: 0-0.3 m 1) Topsoil: 0-0.2/0.25 m (FL bag 27) 2) Layer of ashy soil with collapsed stone wall: top level: 0.1 m. Bottom level: 0.3 m. Numerous animal bones, handmade pottery frs. and a flint blade (FL bags 28-31) 3) Sterile loam, top level: 0.3 m below surface			
<i>Finds</i> Handmade pottery, micro-lithic, stone axe, animal bones		<i>Date range</i> BA	<i>Interpretation</i> Settlement
<i>Site interpretation</i> Complex Bronze Age settlement associated with the keeping of livestock although the structures may not all be contemporary			

DSP08-H08-02	Core units 20018	Coordinates 493372/5042379		Figs. 4.248, 4.257-258
	Adjacent units 20013-17, H16 and H20			
	Interpretation Rectangular stone structure	Estimated size 4 x 4 m	Date range EM	
<i>Topography</i> DSP07-H08-02 is located along the E edge of Hill 8, a short shallow promontory between two high promontories on the lower part of the hillsides				
<i>Investigations</i> Intensive survey Possible stone structure associated with two Early Modern sherds (20018/1-2)				
<i>Site interpretation</i> Early Modern storage site?				

DSP07-H09-01	Core units H09	Coordinates 485116/50401354		Figs. 4.178-180
	Adjacent units H04-05 and H22			
	Interpretation Stone structure	Estimated size 15 x 5 m	Date range EM	
<i>Topography</i> DSP07-H09-01 is located on the E edge on the lower part of Hill 9, a long slope running from the ridge top to the cultivated zone				
<i>Investigations</i> Extensive survey Stone structure built with standing slabs associated with intense vegetation and pottery (2007 FL 14). The W wall is at least 15 m long, the N one at least 5 m long. The finds recorded as GS 3088-3090 and 2007 FL 14 possibly belongs either to this site or to DSP07-H09-02.				
Geomagnetic survey T. Smekalova Dimensions 1 ha		Description of measuring conditions Some dipole anomalies		
Interpretation of features The data revealed no clear features				
Site interpretation Early Modern settlement?				

DSP07-H09-02	Core units H09	Coordinates 484702/5040385		Figs. 4.178, 4.181
	Adjacent units H04-05 and H22			
	Interpretation Stone structure	Estimated size 14 x 7.5 m	Date range EM?	
<i>Topography</i> DSP07-H09-02 is located on the W edge on the lower part of Hill 9, a long slope running from the ridge top to the cultivated zone				
<i>Investigations</i> Extensive survey Stone structure associated with cluster of pottery. The finds recorded as GS 3088-3090 and 2007 FL 14 possibly belong either to this site or to DSP07-H09-01 (see DSP07-H09-01)				
Geomagnetic survey T. Smekalova Dimensions 31 x 55 m		Description of measuring conditions Some dipole anomalies		
<i>Interpretation of features</i> The data revealed a rectangular stone structure. No interpreted map				
<i>Site interpretation</i> Early Modern settlement?				

DSP07-H10-01	Core units H10	Coordinates 482497/5037941		Figs. 4.182-194
	Adjacent units H18	Date range LC-EH		
	Interpretation Settlement	Estimated size minimum 120 x 115 m	Date range LC-EH	
Feature 1	Core units H10	Coordinates 482446/5037977		
	Interpretation Cluster of pits	Estimated size 48 m ²	Date range LC-EH	
Feature 2	Core units H10	Coordinates 482514/5037943		
	Interpretation Stone structure	Estimated size 20 x 17 m	Date range LC-EH	
Feature 3	Core units H10	Coordinates 482477/5037944		
	Interpretation Stone structure	Estimated size 10 x 7 m	Date range LC-EH	
Feature 4	Core units H10	Coordinates 482507/5037921		
	Interpretation Stone structure	Estimated size 7 x 6 m	Date range LC-EH	
Feature 5	Core units H10	Coordinates 482513/5037925		
	Interpretation Cluster of pits	Estimated size 55 m ²	Date range LC-EH	
Feature 6	Core units H10	Coordinates 482447/5037924		
	Interpretation Stone structure	Estimated size minimum 7 x 5 m	Date range LC-EH	
Feature 7	Core units H10	Coordinates 482435/5037915		
	Interpretation Cluster of pits	Estimated size 47 m ²	Date range LC-EH	
<i>Topography</i> DSP07-H10-01 is located on the tip of Hill 10, a small promontory towards the lower part of the hillsides				
<i>Investigations</i> Extensive survey Four rectangular stone structures with double walls occasionally employing standing blocks (Features 2-4 and 6), associated with a cluster of pottery (2007 FL 13, GS 3084, 3086-87), although these grab samples may also be associated with DSP07-H18-01 approximately 50 m to the SW. Feature 2 appears to be a house with multiple rooms and a possible court yard				
Geomagnetic survey T. Smekalova Dimensions 0.75 ha		<i>Description of measuring conditions</i> Some dipole anomalies in the SW		

<i>Interpretation of features</i> The data revealed four rectangular stone structures (Features 2-4 and 6), of which Feature 2 has multiple rooms with three pits and a possible courtyard. There are also three clusters of household pits (1, 5 and 7). Feature 5 is associated with Features 4 and 6 possibly with 7. A single pit is associated with Feature 3. The long linear anomalies are remains of recent agricultural processes			
Augering One core was drilled from the bottom of Feature 5, Pit 1			
0.96 m	Top of auger. Bottom of the pit		
0.96-1.81 m	Loam with a thin layer of limestone crumble above the rock surface		
1.81 m	End of auger. Limestone bedrock		
Excavation V. Stolba and P. Gecko			
Feature 2	<i>Coordinates</i> 482518/5037946	<i>Trench dimensions</i> 2 x 2 m	<i>Features</i> Double wall constructed of roughly chipped stones with packing of small stones in between
Description of stratigraphy by layer: 0-0.4 m 1) Topsoil: 0-0.2 m. Double stone wall clearly discernable on the surface. 0.8-0.82 m thick. Preserved H: 0.32 m. Bottom level: 0.28-0.3 m 2) Layer of stone debris W of the wall: 0.2-0.4 m (FL 12) 3) Dark brown fill SW of the wall: 0.2-0.4 m 4) Sterile loam: top level 0.4 m			
<i>Finds</i> Amphora frs. and helix shell		<i>Date range</i> LC-EH	<i>Interpretation</i> Settlement
Feature 5	<i>Coordinates</i> 482511/5037924	<i>Trench dimensions</i> 2 x 2 m extended 0.6 x 1 m E and 0.7 x 1.1 m N	<i>Features</i> Two circular pits
Description of stratigraphy by layer: 0-1.81 m 1) Topsoil: 0-0.28 m (FL 1, 3 and 8) 2) Upper fill of yellowish loam: top level 0.28 m (FL 2 and 4) 3) Control pit on the S edge of the trench: depth 0.60-0.70 m (FL 7) Circular roughly piriform pit with concave bottom (1): 0.96 m deep (measured from topsoil surface). Max D: 0.96 m 1) Darker soil with admixture of rubble: 0.50/0.60-0.80 m (FL 5-6) 2) Large flag stone (0.50 x 0.40 m) on the floor of the pit: top level 0.80 m. Bottom level 0.96 m Circular piriform pit with concave bottom (2): 1.36 m deep (measured from topsoil surface). Max D: 1.47 m 1) Upper fill of dark brown soil: 0.20-60 m (FL 9) 2) Fill of densely packed rubble: 0.60-1.15 m (FL 10) 3) Fill below stone packing: 1.15-1.30 m. An almost complete vessel was found in this layer, but frs. came from depth 0.40-1.30 m (FL 11) 4) Same as above but with ashy inclusions: 1.30-1.36 m. A fox hole blocked with stones towards the bottom on the S side. Mudbrick found on the bottom of the pit 5) Sterile loam 1.36-1.81 m 6) Bedrock: top level 1.81 m			
<i>Finds</i> Amphora, handmade, plainware and black-glazed frs., stone tools, animal bones, helix shells and cereal			
<i>Site interpretation</i> Small settlement including one large structure with multiple rooms and a courtyard, two smaller structures and several household pits. Probably associated with DSP07-H18-01, located just across a shallow ravine 140 m to the W			

DSP08-H11-01	Core units H11	Coordinates 486890/5041136		Figs. 4.195-199
	Adjacent units H22, H23	Date range LC-EH		
	Interpretation Settlement	Estimated size minimum 100 x 80 m	Date range LC-EH	
Feature 1	Core units H11	Coordinates 486915/5041146		
	Interpretation Check dam?	Estimated size 3 m	Date range LC-EH	
<i>Topography</i> DSP07-H11-01 is located on thin soils on the E side at the bottom of Hill 11, a long slope running from the top of the ridge to the cultivated zone				
<i>Investigations</i> Extensive survey A large cluster of pottery and ground stone tools (GS 3083 and 3093) associated with possible remains of check-dams in the shallow ravine on the E side of Hill 11				
Geomagnetic survey T. Smekalova Dimensions 50 x 80 and 70 m		Description of measuring conditions Poor. Many dipole anomalies		
Interpretation of features No identifiable structures or features preserved				
Site interpretation Apart from the possible check-dam, any remains of architecture appear to have been removed. The pottery suggests the presence of a relatively large Hellenistic settlement				

DSP08-H11-02	Core units 20050-20055	Coordinates 487265/5040066		Figs. 4.289-294
	Adjacent units H13 and H22-23	Date range LC-EH		
	Interpretation Settlement	Estimated size 2.6 ha	Date range LC-EH	
Feature 1		Coordinates 487254/5040179		
	Interpretation Quarry?	Estimated size Length 2.5 m.	Date range LC-EH	
Feature 2		Coordinates 487320/5040167		
	Interpretation Structure	Estimated size ?	Date range LC-EH	
Feature 3		Coordinates 487251/5040150		
	Interpretation Structure	Estimated size ?	Date range LC-EH	
Feature 4		Coordinates 487285/5040145		
	Interpretation Stone structure	Estimated size Length 17 m	Date range LC-EH	
Feature 5		Coordinates 487356/5040133		
	Interpretation Stone structure	Estimated size 4 x 12 m	Date range LC-EH	
Feature 6		Coordinates 487297/5040114		
	Interpretation Diffused cluster of pits	Estimated size 200 m ²	Date range LC-EH	
Feature 7		Coordinates 487313/5040088		
	Interpretation Structure	Estimated size ?	Date range LC-EH	
Feature 8		Coordinates 487224/5040063		
	Interpretation Stone structure	Estimated size 5 x 9 m	Date range LC-EH	
Feature 9		Coordinates 487266/5040063		
	Interpretation Stone structure and pit house	Estimated size 10 x 7 and 8 x 5 m	Date range LC-EH	

Feature 10		<i>Coordinates</i> 487300/5040059		
	<i>Interpretation</i> Cluster of pits	<i>Estimated size</i> 197 m ²	<i>Date range</i> LC-EH	
Feature 11		<i>Coordinates</i> 487314/5040060		
	<i>Interpretation</i> Stone structure	<i>Estimated size</i> 5.5 x 6.5 m	<i>Date range</i> LC-EH	
Feature 12		<i>Coordinates</i> 487396/5040041		
	<i>Interpretation</i> Stone structure	<i>Estimated size</i> 7 x 9 m	<i>Date range</i> LC-EH	
Feature 13		<i>Coordinates</i> 487172/5040033		
	<i>Interpretation</i> Stone structure	<i>Estimated size</i> 4.5 x 8 m	<i>Date range</i> LC-EH	
Feature 14		<i>Coordinates</i> 487224/5040030		
	<i>Interpretation</i> Stone structure	<i>Estimated size</i> 15 x 15 m	<i>Date range</i> LC-EH	
Feature 15		<i>Coordinates</i> 487260/5040022		
	<i>Interpretation</i> Cluster of pits?	<i>Estimated size</i> 168 m ²	<i>Date range</i> LC-EH	
Feature 16		<i>Coordinates</i> 487301/5040018		
	<i>Interpretation</i> Stone structure and two pits?	<i>Estimated size</i> 10 x 18 m	<i>Date range</i> LC-EH	
Feature 17		<i>Coordinates</i> 487232/5040009		
	<i>Interpretation</i> Cluster of pits?	<i>Estimated size</i> 76 m ²	<i>Date range</i> LC-EH	
Feature 18		<i>Coordinates</i> 487387/5039980		
	<i>Interpretation</i> Stone structure	<i>Estimated size</i> 5 x 6 m	<i>Date range</i> LC-EH	
<i>Topography</i> DSP08-H11-02 is located on the E side of Hill 11, a long slope running from the top of the ridge to the cultivated zone. The site spreads over an area subdivided by three very shallow ravines				

<i>Investigations</i> Extensive survey A scatter of pottery (GS 3094 and 3218) associated with area of concentrated intense vegetation (see below) Intensive survey A diffused scatter of pottery (20050-55) associated with 10 stone structures in an area of diffused intense vegetation. There is an area of more concentrated intense vegetation to the N on the tip of the promontory (Feature 2). A possible quarry is located to the NW (Feature 15). Traces of three possible stone structures were found on another promontory approximately 80 m to the NW along the E edge of the ravine			
Geomagnetic survey T. Smekalova <i>Dimensions</i> 3.5 ha		<i>Description of measuring conditions</i> Few dipole anomalies	
<i>Interpretation of features</i> The data revealed 11 poorly defined anomalies on either side of a shallow ravine. A strong anomaly was chosen for excavation. The long linear anomalies which cut cross the site are remains of recent agricultural processes			
Excavation S. Lancov and P. Gecko			
Feature 9	<i>Coordinates</i> 487276/5040055	<i>Dimensions</i> 5.7 x 4.1 m	<i>Features</i> Concentric pits
Description of stratigraphy by layer: 0-1.47 m 1) Topsoil: 0-0.2 m 2) Grey ashy layer with many frs. of bones and pottery: 0.2-0.45 m 3) Irregular pit of loamy sand with several floors. Top level: 0.4 m. 1st floor: top level 0.73-0.78 m. 2nd floor top level 0.98-1.17 m. Bottom level: 1.4-1.47 m 4) Sterile loam: top level 0.45-1.47 m			
<i>Finds</i> Pottery, animal bone		<i>Date range</i> LC-EH	<i>Interpretation</i> Pit house
<i>Site interpretation</i> The investigations suggest that the settlement consisted of at least 14 structures dispersed around two shallow ravines. Some of the structures are visible as possible stone structures on the surface (Features 4-5, 8-14, 16 and 18), but at least Feature 9 is associated with a pit house and this may be the case at several features e.g. Features 5, 11 and 16. There appear to be four, possible, large clusters of pits (Features 6, 10, 15 and 17), two of which are relatively closely associated with individual structures (Features 10-11 and Features 14 and 17). The stone structures are poorly preserved, but appear to be less complex than the contemporary stone structures from DSP08-H12-01 and DSP07-H10-01/18-01			

DSP08-H12-01	Core units 20035-36, 20061-63	Coordinates 489515/5039038		Figs. 4.296-303
	Adjacent units H1 and H19			
	Interpretation Settlement	Estimated size 3.6 ha	Date range LC-EH/?	
Feature 1	Core units 20036, 20061	Coordinates 489424/5039054		
	Interpretation Wall	Estimated size Length 8.5 m	Date range LC-EH/?	
Feature 2	Core units 20036	Coordinates 489439/5039053		
	Interpretation Stone structure	Estimated size 38 x 24 m	Date range LC-EH/?	
Feature 3	Core units 20036	Coordinates 489429/5039003		
	Interpretation Stone structure	Estimated size 8 x 11 m	Date range LC-EH/?	
Feature 4	Core units 20061-62	Coordinates 489510/5039063		
	Interpretation Stone structure	Estimated size 13.5 x 15 m	Date range LC-EH/?	
Feature 5	Core units 20061-62	Coordinates 489498/5039017		
	Interpretation Complex stone structure	Estimated size 38 x 22 m	Date range LC-EH/?	
Feature 6	Core units 20063	Coordinates 489576/5039075		
	Interpretation Stone structure	Estimated size 8 x 8 m	Date range LC-EH/?	
Feature 7	Core units 20063	Coordinates 489592/5039080		
	Interpretation Stone structure	Estimated size 10 x 9 m	Date range LC-EH/?	
Feature 8	Core units 20063	Coordinates 489601/5039063		
	Interpretation Stone structure	Estimated size 9 x 14 m	Date range LC-EH/?	
Feature 9	Core units 20063	Coordinates 489594/5039031		
	Interpretation Curved wall	Estimated size Diameter ca. 20 m	Date range LC-EH/?	

Feature 10	<i>Core units</i> 20062-63	<i>Coordinates</i> 489571/5039012		
	<i>Interpretation</i> Stone structure	<i>Estimated size</i> Length 9 m	<i>Date range</i> LC-EH/?	
Feature 11	<i>Core units</i> 20062-63	<i>Coordinates</i> 489560/5038998		
	<i>Interpretation</i> Stone structure	<i>Estimated size</i> 7 x 7 m	<i>Date range</i> LC-EH/?	
Feature 12	<i>Core units</i> 20063	<i>Coordinates</i> 489584/5038992		
	<i>Interpretation</i> Large cluster of pits	<i>Estimated size</i> 0.03 ha	<i>Date range</i> LC-EH/?	
Feature 13	<i>Core units</i> 20063	<i>Coordinates</i> 489572/5038966		
	<i>Interpretation</i> Stone structure	<i>Estimated size</i> 18 x 9 m	<i>Date range</i> LC-EH/?	
Feature 14	<i>Core units</i> 20062	<i>Coordinates</i> 489530/5038962		
	<i>Interpretation</i> Large cluster of pits	<i>Estimated size</i> 0.05 ha	<i>Date range</i> LC-EH/?	
Feature 15	<i>Core units</i> 20036, 20061	<i>Coordinates</i> 489447/5038978		
	<i>Interpretation</i> Long wall?	<i>Estimated size</i> Length 111 m	<i>Date range</i> LC-EH/?	
Feature 16	<i>Core units</i> 20036, 20061	<i>Coordinates</i> 489451/5038888		
	<i>Interpretation</i> Stone structure	<i>Estimated size</i> 16 x? m	<i>Date range</i> LC-EH/?	
Feature 17	<i>Core units</i> 20035	<i>Coordinates</i> 489387/5039098		
	<i>Interpretation</i> Quarry?	<i>Estimated size</i> Length 7 m	<i>Date range</i> LC-EH/?	
<i>Topography</i> DSP08-H12-01 is located on Hill 12, a small low promontory just N of the ridge top. The site spreads across Hill 12, the W edge of which is cut by a ravine, onto the W slope of Hill 19				

Investigations

Intensive survey 13 structures indicated by slight elevations covered by intense vegetation and linear stone features within a large area of diffused scatter of pottery of mostly probably Late Classical-Early Hellenistic date and flint (20035/08, 20036/10-12, 20061-63 and GS 3208). Generally, the vegetation on the structures in the W part of the site is low shrub (Features 1-5 and 15) whereas the vegetation on the structures in the E part is grassy (6-8, 10-11 and 13). Visible in Feature 5 is a line of stones and a corner in the central part of the elevation, 9 m long. Feature 11 is a square stone structure with double walls built with standing slabs. Feature 1 is associated with an amphora handle possibly of Medieval date and a piece of flint (20036/12 and GS 3208). Feature 4 is associated with an amphora and a handmade sherd both of Hellenistic date (20062/02). Feature 6 is associated with two sherds, one a possible Late Bronze Age handmade one (20063/07-08). The general distribution of finds includes two discrete scatters: a ceramic scatter on the tip of the middle promontory (GS 3209-16) and another one including flint approximately 50 m to the SW in the area of Feature 16 (20035/09-10 and 20036/01-09). The soil in this area is very dark and the grasses more intensive suggesting recent cultivation. There is a possible quarry on the W slope of Hill 19 (Feature 17). Long earth banks in the S and SE part of the site probably associated with modern earth works

Geomagnetic survey

Eastern Atlas

Dimensions 405 x 250 m

Description of measuring conditions

Rare dipole anomalies. Plough marks dominate the SW corner

Interpretation of features 13 architectural complexes as well as numerous pits are visible in the data. Some structures such as Features 1, 4, 6-8, 10-11 and 16 may consist of single- and double-room structures, although some of them may belong to the same building e.g. Features 6-8. Features 2, 5 and 13 are more complex, multi-room structures. Feature 9 may be a circular pen although there appears to be a corner of a building inside it. Large irregular pits are mostly associated with the architecture, but small regular pits appear in clusters some distance away from any architecture especially on the E side of the settlement (Features 12 and 14). Possible remains of a long wall oriented roughly E-W S of Features 2 and 4 (Feature 15). Linear features derive from topography, dams and/or agriculture. The dominating orientation is NNW-SSE. Terrain steps up to 0.7 m show in the data as negative anomalies, they either result from ravines or recently dug pits. A large field with NE-SW-orientated plough marks is noticeable in the SW part where Feature 16 is located, and there is a road along its NE edge. Few pieces of metal debris (dipole anomalies) are spread over the site

Augering

In the S part of DSP08-H12-01, two augerings were conducted in the area of Feature 16. The second layer in Auger 11, between 0.27 and 0.50 m below the surface, was interpreted as a culture layer due to the detection of small pottery frs. This layer was not very thick, 0.23 m in this sample, but it seemed intact. At the centre of DSP08-H12-01, six attempts at augering were conducted with structures visible on the surface, but at all locations, stone was met within 0.25 m below the surface (Auger 13). Finally two augerings were conducted at the centre of two magnetometric anomalies on the lower E slope of Hill 19. In both augers, the second layer was very dark and organic and contained small ceramic inclusions, while there were no signs of burnt soil or charcoal. Both layers can be interpreted as pit fills. Auger 16 was conducted on Hill 19, where Eastern Atlas had detected another magnetic anomaly. At this location, no clear pit fill could be detected. The second layer was heterogeneous but did not contain archaeological indicators

Auger S11: 489425/5038854

0-0.50 m	Topsoil, loam, loose, organic material; 10YR 2/2
0.50-0.85 m	Loam, compact, some stone inclusions, plastic, organic material; 10YR 4/4
0.85-1.22 m	Loam, compact, few stone inclusions, plant remains at 0.90 m, homogeneous; 10YR 4/3
1.22-1.55 m	Clayey loam, brown, plastic, limestone inclusions; 10YR 4/3
1.55-1.80 m	Loam, some lime shells, loose; 10YR 6/4
1.80 m -	End of auger. Limestone bedrock

Auger S12: 489409/5038812

0-0.27 m	Topsoil, chernozem; 10YR 2/2, loam, organic material, loose
0.27-0.50 m	Loam, compact, heterogeneous, organic material, a few small pottery frs. included; 10YR 4/3
0.50-1.05 m	Loam, compact, plastic, homogeneous, some lime shells, small stone inclusions; 10YR 5/4

1.05 m -	End of auger. Limestone bedrock
Auger S13: 489562/5038993	
0-0.25 m	Topsoil
0.25 m-	End of auger
Auger S14: 489430/5039036	
0-0.32 m	Topsoil, loam, organic material; 10YR 2/2
0.32-0.65 m	Loam, heterogeneous, stone inclusions, small pottery frs.; 10YR 3/2
0.65-0.85 m	Loam, compact, not plastic; 10YR 5/4
0.85 m-	End of auger
Auger S15: 489467/5038989	
0-0.30 m	Topsoil, loam, loose, organic material; 10YR 2/2
0.30-0.60 m	Loam, very organic, very hard, heterogeneous, stone inclusions, small shell frs., small pottery frs.; 10YR 2/1
0.60-0.80 m	Loam, plastic but hard, some limestone inclusions; 10YR 4/4
0.80 m-	End of auger
Auger S16: 489524/5039040	
0-0.20 m	Topsoil, loam, organic material, loose; 10YR 3/2
0.20-0.55 m	Loam, with brown spots, compact, some lime inclusions; 10YR 4/3
0.55-0.80 m	Loam, plastic, stone and limestone inclusions; 10YR 5/4
<p><i>Site interpretation</i></p> <p>Hellenistic settlement consisting of 11 buildings and numerous household pits. Simple structures with clusters of single-rooms dominate but some clusters may represent structures with multiple rooms. On the NE side of the settlement is a possible circular pen of a diameter of about 25 m, even if there appears to be a corner of a building inside it. Household pits cluster near the buildings but also some distance away from any architecture, especially on the E side of the settlement. Possible remains of a long wall oriented roughly E-W just S of the main settlement area may indicate the edge of the settlement on this side. In this case, the structure in the ploughed field to the S situated almost 100 m away may not belong with the settlement. The date of the pottery collected in this area was inconclusive and it may be of a later date. However, the E-W-running wall is located on the edge of the recently ploughed area and post-depositional processes would have destroyed remains of architecture in the surface. There are no traces of the S building on the surface. Possibly, the settlement is associated with the group of kurgans on the ridge of Hill 19 immediately to the W although these are not visible from the site</p>	

DSP08-H13-01	<i>Core units</i> 20049, 20058-60	<i>Coordinates</i> 487837/5037883		<i>Figs.</i> 4.285-288
	<i>Adjacent units</i> H11, H22-23			
	<i>Interpretation</i> Settlement?	<i>Estimated size</i> 2 ha	<i>Date range</i> BA?/ LC-EH	
Feature 1	<i>Core units</i> 20058	<i>Coordinates</i> 487841/5037972		
	<i>Interpretation</i> Possible stone structure	<i>Estimated size</i> 2 x 3 m	<i>Date range</i> BA?/ LC-EH	
Feature 2	<i>Core units</i> 20049	<i>Coordinates</i> 487876/5037974		
	<i>Interpretation</i> Possible stone structure	<i>Estimated size</i> Length 5 m	<i>Date range</i> BA?/ LC-EH	
Feature 3	<i>Core units</i> 20049	<i>Coordinates</i> 487858/5037891		
	<i>Interpretation</i> Possible stone structure	<i>Estimated size</i> 4 x 4 m	<i>Date range</i> BA?/ LC-EH	
Feature 4	<i>Core units</i> 20058	<i>Coordinates</i> 487836/5037871		
	<i>Interpretation</i> Possible stone structure	<i>Estimated size</i> 4 x 4 m	<i>Date range</i> BA?/ LC-EH	
Feature 5	<i>Core units</i> 20058	<i>Coordinates</i> 487836/5037861		
	<i>Interpretation</i> Possible stone structure	<i>Estimated size</i> 6 x 7 m	<i>Date range</i> BA?/ LC-EH	
Feature 6	<i>Core units</i> 20058	<i>Coordinates</i> 487834/5037850		
	<i>Interpretation</i> Possible stone structure	<i>Estimated size</i> 6 x 5 m	<i>Date range</i> BA?/ LC-EH	
<i>Topography</i> DSP08-H13-01 is located on Hill 13, a small shallow promontory on the ridge top. Towards the N, the tip of the promontory is flanked by two small peaks				
<i>Investigations</i> Extensive survey Koltuchov site 15 Intensive survey Linear stone features suggesting possible stone structures on either peaks (Features 1-2) and four possible stone structures approximately 75 m S from the tip of the promontory (Features 3-6). The 10 sherds collected (20049, 20059-60) were found mainly S of the possible structures, slightly uphill				
Geomagnetic survey Eastern Atlas Dimensions 366 x 95 m		Description of measuring conditions Prominent plough marks		
Interpretation of features The site is dominated by geological and agricultural patterns. Geological patterns show up through a great variation in magnetic data, agricultural patterns through a lot of parallel anomalies. Built structures as well as pits were detected in the N part. There is a roughly rectangular structure with several large irregular pits to the N and S on the E peak (Feature 2). 70 m due S are two rectangular structures with irregular pits inside (Features 3 and 6)				

Augering Three augurings were undertaken, two on each peak and one in between. The difference in elevation between the hilltops (Auger 8 and 10) and the lower part in between was approximately 2.50 m. Noteworthy in Auger 8 is the compact heterogeneous layer below the topsoil. No archaeological indicators were detected in this layer, but it may have been a cultural layer. In the layer below, three pieces of bone were found, indicating that the hill has become higher since the deposition. It is uncertain whether this was a natural or an artificial process. The soil in Auger 9 was very hard and compact, making it impossible to continue after 1.40 m. In the third layer, intact plant remains were found.	
Auger S8: 487873/5037985 (top of E peak)	
0-0.60 m	Topsoil, loam, loose, not ploughed. Humus; 10YR 5/3
0.60-1.25 m	Loam, compact, dark stone inclusions, not homogeneous; 10YR 4/4
1.25-2.10 m	Loam, many limestone shells; 10YR 5/4. Three frs. of bone at 1.50 m below surface
2.10 m-	End of auger
Auger S9: 487858/5037980 (next to track, between two hills)	
0-0.50 m	Loam, dark brown, loose, humus, not ploughed; 10YR 3/2
0.50-0.90 m	Loam, very compact, plastic; 10YR 3/2
0.90-1.10 m	Loam, very compact, inclusions, limestone, small plant remains; 10YR 4/3
1.10-1.40 m	Loam, loose, light brown, limestone shells and inclusions; 10YR 4/3
1.40 m-	End of auger. Soil too hard to continue
Auger S10: 487842/5037972 (top of W peak)	
0-0.07 m	Topsoil, loam, loose, not ploughed; 10YR 3/2
0.07-0.50 m	Loam, loose, no inclusions; 10YR 4/4
0.50-0.90 m	Loam, compact, limestone inclusions; 10YR 4/4
0.90-1.05 m	Loam, less compact, limestone shells, small pieces of granite? 10YR 5/4
<i>Site interpretation</i> Settlement?	

DSP08-H14-01	Core units 20045-48	Coordinates 495341/5042577		Figs. 4.278-284
	Adjacent units 20021-22, 20043-44, H15			
	Interpretation Settlement	Estimated size	Date range BA/ LC-EH	
Individual phases BA	Core units 20047-48	Coordinates 495341/5042577		
	Adjacent units 20021-22, 20043-46, H15			
	Interpretation Settlement	Estimated size	Date range BA	
Individual phases LC-EH	Core units 20045-48		Coordinates 495341/5042577	
	Adjacent units 20021-22, 20043-44, H15			
	Interpretation ?	Estimated size ?	Date range LC-EH	
Feature 1		Coordinates 495320/5042622		
	Interpretation Stone structure?	Estimated size ?	Date range BA	
Feature 2		Coordinates 495310/5042595		
	Interpretation Stone structure with stone cist	Estimated size ?	Date range BA	
Feature 3		Coordinates 495326/5042548		
	Interpretation Stone structure?	Estimated size ?	Date range BA	
Feature 4		Coordinates 495335/5042522		
	Interpretation Stone structure?	Estimated size ?	Date range BA	
Feature 5		Coordinates 495300/5042507		
	Interpretation Stone structure?	Estimated size ?	Date range BA	
Feature 6		Coordinates 495316/5042484		
	Interpretation Stone structure?	Estimated size ?	Date range BA	

<i>Topography</i> DSP08-H14-01 is located on a wide ravine between two promontories at the bottom of the hillsides. The area was probably ploughed in the recent past as indicated by the loose, dark soils			
<i>Investigations</i> Extensive survey S. Lancov, S. Koltuchov possibly in autumn 2007 Intensive survey A discrete scatter of handmade sherds was concentrated in an area approximately 50 m wide, between lines 20047 and 20048 in an area of high grasses. However, only three of these could be dated with certainty to the Bronze Age (20047-02); there is a more diffused scatter of Hellenistic material and possibly later e.g. a reused amphora handle (20043, 20045, 20047-02, 20048)			
Geomagnetic survey T. Smekalova Dimensions 2.5 ha		Description of measuring conditions Some dipole anomalies	
<i>Interpretation of features</i> Weak anomalies of six possible structures on either side of a shallow ravine. The long linear anomalies which cut cross the site are remains of recent agricultural processes			
Excavation S. Lancov and P. Gecko			
Feature 2 495304/5042593		Coordinates	Trench dimensions 2 x 2 m
			Features Rectangular stone cist of stone slabs and possible collapsed wall
Description of stratigraphy by layer: 0-0.85 m 1) Topsoil empty of archaeological artefacts: 0-0.20 m 2) Brown loam with tiny rock frs. empty of archaeological artefacts: 0.20-0.50/60 m 3) Stone debris: top level 0.34 m. Bottom level: 0.79 m (FL 3-6) 4) Ashy layer: top level 0.50-0.60 m. Stone cist: 1.2 x 0.9 m built of stone slabs 3-5 cm thick, 5-10 cm high directly on the bedrock. Natural shallow depression in the centre filled with loam and rubble (FL 1-2) 5) Bedrock: top level 0.79-0.85 m			
Finds Handmade pottery, animal bones		Date range BA	Interpretation Stone structure with stone cist
<i>Site interpretation</i> BA settlement possibly consisting of six stone structures; however, the area appears to have been resettled during the LC-EH period, and some of the structures may date to this period			

DSP08-H15-01	Core units 20026	Coordinates 495464/5042459		Figs. 4.264-265
	Adjacent units 20025, 20027-28. H14			
	Interpretation Farmstead	Estimated size 54 x 41 m	Date range Modern	
Topography DSP08-H15-01 is located on the W slope of Hill 15, a wide low promontory at the bottom of the hillsides				
Investigations Extensive survey Koltuchov site 36 Intensive survey Large angular patch of intense vegetation. No pottery directly associated, but modern building debris				
Site interpretation Near contemporary settlement				

DSP08-H16-01	Core units 20008-9	Coordinates 493049/5042275		Figs. 4.243, 4.245
	Adjacent units H08			
	Interpretation Settlement	Estimated size 0.4 ha	Date range Unknown	
Feature 1	Core units 20009	Coordinates 493069/5042257		
	Interpretation Ditches?	Estimated size Diameter ca. 11 m	Date range Unknown	
Feature 2	Core units 20008	Coordinates 493037/5042247		
	Interpretation Stone structure	Estimated size 24 x 30 m	Date range Unknown	
Feature 3	Core units 20008	Coordinates 493021/5042232		
	Interpretation Stone structure	Estimated size 7.5 x 7 m	Date range Unknown	
Feature 4	Core units 20008-9	Coordinates 493053/5042247		
	Interpretation Enclosure	Estimated size 100 x \approx 100 m	Date range Unknown	
<i>Topography</i> DSP08-H16-01 is located on the SE slope of Hill 16, a high short promontory near the bottom of the hillsides				
<i>Investigations</i> Intensive survey Three long shallow elevations running E-W at irregular intervals. No finds				
Geomagnetic survey Eastern Atlas Dimensions 630 x 53 m		Description of measuring conditions Metal debris is randomly spread over the site		
Interpretation of features Square structure with multiple internal walls surrounded on three sides by large irregular pits (Feature 2). SW of this is a rectangular structure with small pits inside and large irregular pit outside the S wall (Feature 3). NE of Feature 1 are two concentric U-shaped ditches. This entire complex is surrounded by shallow banks on three sides. Open towards the W (Feature 4). Additional E-W running bank on the E side. Linear anomalies close to the archaeological findings could be due to farming				
Site interpretation Agricultural settlement? Date unknown				

DSP08-H17-01	Core units 20002	Coordinates 491253/5041648		Fig. 4.233, 4.237-238
	Adjacent units 20007, H06-07			
	Interpretation Storage site?	Estimated size 0.1 ha	Date range Unknown	
Feature 1	Core units 20002	Coordinates 491259/5041642		
	Interpretation Circular anomaly	Estimated size Diameter 16.5 m	Date range Unknown	
Feature 2	Core units 20002	Coordinates 491207/5041645		
	Interpretation Circular anomaly	Estimated size Diameter 6.5 m	Date range Unknown	
<i>Topography</i> DSP08-H17-01 is located on the central part of Hill 17, a long wide promontory running from the top of the ridge to the cultivated zone				
<i>Investigations</i> Intensive survey No anomalies were observed on the surface A grab sample (GS 3204) was collected 60 m N of the site				
Geomagnetic survey Eastern Atlas Dimensions 205 x 200 m		Description of measuring conditions Metal debris is spread over the area		
<i>Interpretation of features</i> The area is pervaded by road anomalies crossing NW-SE. The highest density is noticeable along the linear anomalies in the E. Some weak circular patterns (Features 1-2) are visible in the NE corner as well as some possible anomalies displaying cavities – these features could be of archaeological origin (e.g. kurgans, pits)				
<i>Site interpretation</i> Possible archaeological features, e.g. kurgans or pits				

DSP08-H17-02	<i>Core units</i> 20003, 20006, H17	<i>Coordinates</i> 491131/5041648		<i>Figs.</i> 4.239-240
	<i>Adjacent units</i> H06-07			
	<i>Interpretation</i> Group of kurgans	<i>Estimated size</i> –	<i>Date range</i> LC-EH?	
Feature 1	<i>Core units</i> H17	<i>Coordinates</i> 491034/5041477		
	<i>Interpretation</i> Kurgan	<i>Estimated size</i> Diameter 21 m	<i>Date range</i> LC-EH?	
Feature 2	<i>Core units</i> H17	<i>Coordinates</i> 491082/5041433		
	<i>Interpretation</i> Kurgan	<i>Estimated size</i> Diameter 17 m	<i>Date range</i> LC-EH?	
Feature 3	<i>Core units</i> 20003	<i>Coordinates</i> 491132/5041398		
	<i>Interpretation</i> Kurgan	<i>Estimated size</i> Diameter 34 m	<i>Date range</i> LC-EH?	
Feature 4	<i>Core units</i> 20003	<i>Coordinates</i> 491152/5041372		
	<i>Interpretation</i> Kurgan	<i>Estimated size</i> Diameter 19 m	<i>Date range</i> LC-EH?	
Feature 5	<i>Core units</i> 20003, 20006	<i>Coordinates</i> 491216/5041318		
	<i>Interpretation</i> Kurgan	<i>Estimated size</i> Diameter 15 m	<i>Date range</i> LC-EH?	
<i>Topography</i> DSP08-H17-02 is located on the central part of Hill 17, a long wide promontory running from the top of the ridge to the cultivated zone				
<i>Investigations</i> Intensive survey Five grassy elevations associated with five sherds of which one is a Thasian amphora and one is probably Early Modern and a piece of flint (20003/01-04 and GS 3205-6)				
<i>Site interpretation</i> Group of kurgans				

DSP08-H17-03	Core units H17	Coordinates 491235/5040946		Fig. 4.241
	Adjacent units 20004-5, H06-07			
	Interpretation Kurgan	Estimated size Diameter 10 m	Date range Unknown	
<i>Topography</i> DSP08-H17-03 is located on the central part of Hill 17 300 m S of DSP08-H17-02				
<i>Investigations</i> Extensive survey Grassy elevation located S of the intensively surveyed area				
Geomagnetic survey Eastern Atlas Dimensions 180 x 100 and 80 x 50 m		Description of measuring conditions		
<i>Interpretation of features</i> The kurgan shows up in the magnetic data as a circular and very strong positive anomaly. Linear anomalies deriving from tracks				
<i>Site interpretation</i> Kurgan				

DSP07-H18-01	Core units H18	Coordinates 482307/5038002		Figs. 4.200-201
	Adjacent units H10			
	Interpretation Settlement	Estimated size =/>100 x 50 m	Date range LC-EH	
Feature 1	Core units H18	Coordinates 482311/5038049		
	Interpretation Cluster of household pits	Estimated size 80 m²	Date range LC-EH	
Feature 2	Core units H18	Coordinates 482280/5038041		
	Interpretation Stone structure	Estimated size =/>18 x 12 m	Date range LC-EH	
Feature 3	Core units H18	Coordinates 482301/5038034		
	Interpretation Stone structure	Estimated size 5 x 10 m	Date range LC-EH	
Feature 4	Core units H18	Coordinates 482310/5037989		
	Interpretation Complex stone structure	Estimated size 15 x 17 m	Date range LC-EH	
Feature 5	Core units H18	Coordinates 482342/5037963		
	Interpretation Stone structure	Estimated size =/>9 x 13 m	Date range LC-EH	
Feature 6	Core units H18	Coordinates 482328/5037957		
	Interpretation Cluster of household pits	Estimated size 95 m²	Date range LC-EH	
<i>Topography</i> DSP07-H18-01 is located on the small E promontory of the broad Hill 18 in the lower part of the hillsides				
<i>Investigations</i> Extensive survey Pottery (see DSP07-H10-01) associated with four possible stone structures (Features 2-5). Feature 4 is at least partly built with standing slabs				
Geomagnetic survey T. Smekalova Dimensions 50 x 110 and 20 x 25 m		Description of measuring conditions Good		
<i>Interpretation of features</i> Four rectangular stone structures: Features 2 and 4-5 have multiple rooms, Feature 4 with three pits inside while Feature 3 appears to be a single-room structure. Features 3 and 5 and Features 2 and 4 appear to have similar orientation. Two clusters of household pits are located to the N (Feature 1) and E of Feature 5 (Feature 2). There are also a few diffused pits. The long linear anomalies are remains of recent agricultural processes				
<i>Site interpretation</i> Small settlement including three small structures and several household pits. Probably associated with DSP07-H10-01, located just across a shallow ravine 140 m to the E				

DSP07-H19-01		<i>Coordinates</i> 489257/5038946		<i>Figs.</i> 4.204-205, 4.213-214
	<i>Interpretation</i> Kurgan group	<i>Estimated size</i> —	<i>Date range</i> Unknown	
<i>Description</i> This group consists of four kurgans, three of which were excavated in 1971-1972. In all cases the earthen embankments of the kurgans are reflected in the magnetic field as positive anomalies, because the material of the soil is slightly magnetic				
<i>Investigations</i> Geomagnetic survey T. Smekalova There are three local positive magnetic anomalies SE and NW kurgan 3, which are caused, possibly, by the magnetic soil filling of the natural (?) depressions in the non-magnetic limestone bedrock. There are no other anomalies, which could be created by archaeological features in the space between the kurgans there				
Kurgan 1	<i>Coordinates (centre)</i> 489259/5038884	<i>Diameter</i> 20 m	<i>Status</i> Excavated (and restored to original height?)	
	<i>Architecture</i> Chamber tomb in situ	<i>Surface finds</i> None	<i>Geomagnetic survey</i> T. Smekalova	
<i>Description</i> Kurgan 1 is a high mound that is gradually sloping on its E and W side and more steeply on its N and S side. It has been excavated and plans have, according to Koltuchov (pers. comm.), been published. The architecture consists of a chamber tomb situated in the central part of the mound that is reasonably well preserved. It has a narrow entrance on the S side lined by huge flat-lying limestone slabs that give out on a substantial chamber lined by three huge, still-standing orthostats. Presumably, the head of the deceased was located at the W end of the trench where the largest orthostat was placed. The chamber itself measures 2.80 in length. Length from entrance to the outer lateral back wall of the chamber is 3.10 m. The mound itself has numerous small stones at its surface. Halfway between top and foot of the mound larger blocks are visible that may be the remains of a stone circle. If so, this circle would be situated approximately 4 m inward from the lower outline of the mound. The mound itself measures approximately 20 m in diameter. Recently, a number of stones have been removed from the mound. No artefacts were observed at the surface. The orientation of the chamber itself is 90°, i.e. E-W				
<i>Interpretation of geomagnetic features</i> The round earthen embankment of the kurgan is visible as a positive anomaly.				
Kurgan 2	<i>Coordinates (centre)</i> 489261/5038924	<i>Diameter</i> Ca. 18 m	<i>Status</i> Excavated (and restored to original height?)	
	<i>Architecture</i> Chamber tomb in situ	<i>Surface finds</i> None	<i>Geomagnetic survey</i> T. Smekalova	
<i>Description</i> Kurgan 2 is a high mound that is gradually sloping on its S side and more steeply on its N, W and E side. The mound has been excavated and plans have, according to Koltuchov (pers. comm.), been published. Large stones from the grave chamber and/or krepis wall or stone circle have been deposited NW of the mound after excavation. In the central part of the mound is the grave chamber. Like Kurgan 1, it has a narrow entrance lined with flat-lying stones, while the chamber itself is lined with large orthostats. The entrance is orientated S-N which is almost the same orientation as Kurgan 1. All over the surface of the mound, many small limestones are visible and halfway the slope is quite a number of large blocks that seem in situ (remains of a stone circle?). The grave architecture of the chamber repeats that of Kurgan 1 as to its construction. The length of chamber of Kurgan 2 is ca. 2.80 and its width is between 1.40 and 1.50 m. The E flat-lying stone of the chamber of Kurgan 2 has been displaced about 0.4 m. The width of the entrance is 0.55-0.6 m. These are the same dimensions as Kurgan 1. The publications will have to show how the chambers were closed. Both Kurgan 1 and 2 have a large slab lying loose at the entrance (apparently replaced by the excavators). Apparently, this is a closing or covering slab. Its orientation is 100° i.e. slightly S of E-W				

<i>Interpretation of geomagnetic features</i> The earthen embankment of the kurgan is clearly visible as a positive anomaly its soil being slightly magnetic. Its form, however, shows up as triangular. The contour of the embankment is visible best in the grey-scale map.			
Kurgan 3	<i>Coordinates (centre)</i> 489257/5038965	<i>Diameter</i> 22-24 m	<i>Status</i> Excavated
	<i>Architecture</i> Remains of chamber tomb not in situ, stone circle?	<i>Surface finds</i> Unnumbered grab sample collected by I. Florja incl. glazed cup	<i>Geomagnetic survey</i> T. Smekalova
<i>Description</i> The mound is comparable in size and height with Kurgans 1 and 2. It has been excavated but no grave architecture has been preserved. On top of the mound, limestone slabs lie about indicating that this mound had a grave chamber like Kurgans 1 and 2. Halfway up the mound some large blocks are visible in situ that may be the remains of a stone circle. Unlike the other two kurgans, this mound has not been reconstructed to its original height.			
<i>Interpretation of geomagnetic features</i> The earthen embankment of the kurgan is clearly visible as a positive anomaly. The contour of the embankment and grave architecture is visible best in the grey-scale map. Anomalies to the NE, NW and SW are interpreted as pits or depressions filled with magnetic soil			
Excavation S. Lancov, S. Koltuchov			
Geomagnetic anomaly	<i>Coordinates</i> 489270/5038955	<i>Trench dimensions</i> 2 x 2 m	<i>Features</i> Two large stones but no clear features
Description of stratigraphy by layer, reconstruction based on FL 7: 1) Top soil: 0-0.55 m (FL 7:1-3) 2) The second stratum starts at 0.55 m, and two large stones as well as an amphora fr. was found on top of it (FL 7:4) 3) Bedrock. Top level: 0.85 m (FL 7:5)			
<i>Finds</i> Pottery	<i>Date range</i> LC-EH	<i>Interpretation</i> Remains of ritual activity?	
Kurgan 4	<i>Coordinates (centre)</i> 489270/5039016	<i>Diameter</i> 18-19 m	<i>Status</i> Excavated or looted
	<i>Architecture</i> No visible remains	<i>Surface finds</i> None	<i>Geomagnetic survey</i> T. Smekalova
<i>Description</i> This lowest mound among the line-up of four mounds has been excavated in the centre. Here some large limestone blocks lie about. All over the surface of the mound there are many small limestones visible. This mound has no grave architecture left. Only one stone maybe still in situ (part of wall of a cist or a chamber?)			
<i>Interpretation of geomagnetic features</i> The earthen embankment of the kurgan is just visible as a positive anomaly. Its precise form is, however, hard to make out			
<i>Site interpretation</i> Group of kurgans			

DSP07-H19-02	Core units	Coordinates 489280/5039151		Figs. 4.206, 4.215-216
	Interpretation Kurgan group	Estimated size –	Date range Unknown	
<p><i>Description</i></p> <p>Three kurgans belong to the middle group. Here again as on the geomagnetic maps of the previous group, there are no ground burials in the space between the kurgans. The stone circles, surrounded the earthen embankments are reflected in the magnetic field as weak negative anomalies. In the mappings several strong signals were recorded caused by iron objects. There are some local positive anomalies to the N of the kurgan 7, which one could connect with natural depressions in the bedrock, filled with soil. Linear anomalies from the modern earthen road are visible at the NE corner of the plot rendered in yellow</p>				
Kurgan 5	Coordinates (centre) (489290/5039117)	Diameter 11-13 m	Status Excavated/looted	
	Architecture Present, but not in situ; grave chamber? Stone circle?	Surface finds none	Geomagnetic survey T. Smekalova	
<p><i>Description</i></p> <p>Low mound with on its E side some blocks preserved that may indicate the presence of a stone circle. In the centre lie a number of large blocks about, one of which is of the orthostat slab type. This would indicate the presence of a grave chamber with cist and/or dromos. The mound has been excavated or looted. The slopes of the mound are covered with typical limestone rubble</p>				
<p><i>Interpretation of geomagnetic features</i></p> <p>The round earthen embankment of the kurgan is visible as a positive anomaly</p>				
Kurgan 6	Coordinates (centre) 489272/5039150	Diameter 16 m	Status Excavated/looted	
	Architecture Remains of a grave chamber, stone circle	Surface finds None	Geomagnetic survey T. Smekalova	
<p><i>Description</i></p> <p>Kurgan 6 is located ca. 20 m N of Kurgan 5. There is evidence for a krepis wall in the form of large blocks that can be made out at the surface at ca. 3 m inwards from where the slope of the kurgan starts. Part of the grave chamber is preserved. It has an E-W orientation with one large orthostat at its W end and two orthostats perpendicular to it. There is no evidence for a dromos, although this may well have existed. Where the entrance can be postulated, there is now rubble and soil. There is a possibility that, if the tomb was looted (and not excavated), the robbers concentrated on the grave chamber itself. The chamber has a width between 1.08 and 1.9 m. Judging from the position of a stone in situ, which may have been part of the back wall of the chamber, the length of the chamber may have been 3.40 m at maximum. The orientation of the grave chamber is 50°, i.e. N of E-W</p>				
<p><i>Interpretation of geomagnetic features</i></p> <p>The round earthen embankment of the kurgan can be made out. Within the interpreted perimeter appears a strong signal probably caused by an iron object</p>				
Kurgan 7	Coordinates (centre) 489300/5039194	Diameter 15-16 m	Status Excavated/looted?	
	Architecture Stone circle?	Surface finds None	Geomagnetic survey T. Smekalova	
<p><i>Description</i></p> <p>Kurgan 7 is the northernmost in this row. It is a large low mound with in its centre a slight depression (attempt at looting?). Outside the perimeter of the mound lie a number of large blocks about, apparently from the mound. Some blocks at ca. 2-2.5 m inwards from the outer perimeter may be evidence for the existence of a stone circle/krepis wall. The mound has a fairly regular form and does not seem to have been extensively damaged or looted</p>				

Interpretation of geomagnetic features

The round earthen embankment of the kurgan can be made out. To the W, N and NE, three anomalies occur interpreted as pits or depressions filled with magnetic soil

Site interpretation

Group of kurgans

DSP07-H19-03	Core units 20035	Coordinates 489267/5039496		Figs. 4.207, 4.217-218
	Adjacent units 20036, H01, H03, H12 and H24			
	Interpretation Group of kurgans	Estimated size	Date range LC-EH?	
<i>Topography</i> DSP07-H19-03 is located on Hill 19, a long slope running from the top of the ridge to the cultivated zone				
<i>Investigation</i> Intensive survey Line of four grassy elevations just N of Hill 12 (for detailed descriptions, see kurgan catalogue). 12 sherds collected in the area including three Hellenistic transport amphora frs. (20035/05-06 and 20036/14-18) Topographical survey The N group of barrows consists of three kurgans. The northernmost kurgan has been excavated, which is reflected in the magnetic field as a circular positive anomaly. The two remaining kurgans give us only weak circular negative anomalies, most probably, from the stone walls surrounding the embankments. Again, there are no anomalies, which could be caused by ground burials in the space between the barrows. There are linear anomalies from the modern earth road at the NW part of the plot				
Kurgan 8	Coordinates (centre) 489294/5039404	Diameter 18 m	Status Looted	
	Architecture Grave chamber	Surface finds None	Geomagnetic survey T. Smekalova	
<i>Description</i> Large mound with on its slopes the characteristic limestone rubble exposed in a very dense packing. Its top is flat and it appears that the grave chamber has been plundered and damaged. A probable head stone, however, still protrudes from the mound and seems to be in situ. The orthostat slabs lining the chamber have, however, been removed and lie tilted and out of place. On the N slope, a few exposed blocks lie in situ and may indicate the position of a stone circle. These blocks are situated ca. 3.50 m inwards from the outer boundary of the mound. For this mound it is not possible to give dimensions of the grave chamber and there is no sign of an entrance of the dromos-type. Where it can be postulated, no digging has been taken place. This grave may have been of the grave chamber and lateral dromos type. The orientation of the grave chamber is 70°, i.e. slightly N of E-W				
<i>Interpretation of geomagnetic features</i> Of this kurgan only a very weak circular anomaly could be made out. To the S, various strong signals indicate the presence of (recent) iron objects				
Kurgan 9	Coordinates (centre) 489284/5039477	Diameter 16 m	Status Excavated/looted	
	Architecture Possibly a grave chamber?	Surface finds None	Geomagnetic survey T. Smekalova	

Description

Kurgan 9 is a rather flat low mound, apparently looted and/or excavated. On the surface there lie many limestone blocks about that are not in situ. The lower slopes are characterized by a thin cover of limestone rubble. From the central part of the mound protrudes one orthostat that may constitute the N wall of the grave chamber. Based on the orientation of this orthostat (if), the orientation of this grave chamber would be 60°. The position of the orthostat has been measured in. Although some stones lie about, this mound has no clear indications for the existence of a stone circle/krepis wall

Interpretation of geomagnetic features

Of this kurgan only a weak circular anomaly could be made out. Within it a strong signal indicates the presence of a (recent?) iron object

Kurgan 10	<i>Coordinates (centre)</i> 489257/5039511	<i>Diameter</i> 16-20 m	<i>Status</i> Excavated (excavators unknown)
	<i>Architecture</i> Remains of a grave chamber, possibly a dromos type entrance, stone circle / krepis	<i>Surface finds</i> None	<i>Geomagnetic survey</i> No

Description

Kurgan 10 was excavated by archaeologists: it is, however, not known when or by whom. The outer perimeter of the mound seems untouched and still has the characteristic surface cover of limestone rubble. This mound has the best evidence for the existence of a krepis. A regular circular pattern of stones is exposed at the surface and was measured in stone by stone. There also seems to be another stone circle, but this is not certain as many blocks lie loose at the surface and they may have been removed from the grave chamber itself. The architecture of the grave chamber itself consists of four orthostats that, save for one in the N wall and the possible "head" stone itself, are tilted, either in- or outwards. Two stones probably indicate an entrance of dromos type, which, as is usual, would have been located in a N-S orientation. The orientation of the grave chamber is 70°

Interpretation of geomagnetic features

(Figs. 45-47) The earthen embankment of this excavated kurgan appears clearly on the geomagnetic map. To the NE, a pit or depression and to the W linear anomalies of the modern track. To the W, just outside the embankment, appears a strong signal of a (probably recent) iron object

Kurgan 11	<i>Coordinates (centre)</i> 489260/5039558	<i>Diameter</i> 13 m	<i>Status</i>
	<i>Architecture</i> None visible	<i>Surface finds</i> None	<i>Geomagnetic survey</i> No

Description

Kurgan 11 is a low, fairly small mound. It is covered at the surface with a dense packing of limestone rubble. Some large blocks lie loose about and two are protruding from the mound. These do, however, not seem to indicate the grave chamber. The mound looks as if it is untouched having no depression at its centre

Site interpretation

Group of kurgans

DSP07-H19-04	Core units	Coordinates 489110/5040063		Figs. 4.208, 4.219-220
	Interpretation Group of kurgans	Estimated size	Date range LC-EH?	
<i>Description</i> Group IV consists of two pairs of two kurgans. The group is located at a distance of ca. 400 m downslope from Group III. No geomagnetic maps were made of this group, and consequently we have no information on any associated buried features				
Kurgan 12	Coordinates (centre) 489085/50400231	Diameter 13 m	Status	
	Architecture Grave chamber?	Surface finds None	Geomagnetic survey No	
<i>Description</i> Kurgan 12 is a low mound of ca. 13 m in diameter. It has a moderately dense packing of limestone rubble at the surface. In the centre, the mound has a depressed area, indicating that it may have been topped off by looters. If so, this has not been done recently, however. There are three stones at the surface that may indicate the existence of a grave chamber. One may be an orthostat and possible “head” stone, a second one could constitute one of the orthostats lining the N back wall of the chamber. The ‘head’ stone does not seem to lie in situ, the one that possibly lines the N wall may be in situ and as such might furnish the orientation				
Kurgan 13	Coordinates (centre) 489138/5040027	Diameter 11-13 m	Status	
	Architecture Stone circle?	Surface finds None	Geomagnetic survey No	
<i>Description</i> Kurgan 13 is a low mound with the typical limestone rubble at the surface in a quite dense packing. In the centre there lies a heap of limestone blocks. Some large blocks may indicate the existence of a stone circle/krepis wall wall. This mound has no indicators for a grave chamber				
Kurgan 14	Coordinates (centre) 489098/5040097	Diameter 10 m	Status	
	Architecture None	Surface finds None	Geomagnetic survey No	
<i>Description</i> Kurgan 14 is a small low mound, covered by a dense limestone rubble packing. No signs of orthostats protruding from the mound or blocks indicating the existence of an inner stone circle				
Kurgan 15	Coordinates (centre) 489131/5040114	Diameter 21 m	Status Possibly intact	
	Architecture Grave chamber? Stone circle?	Surface finds None	Geomagnetic survey No	
<i>Description</i> Kurgan 15 is a large, rather low mound, covered with the typical limestone rubble in a quite dense packing. In the centre there is a depression (looted?). Part of a large stone is protruding from the W part of the central area of the mound, probably an orthostat. It is tilted, but seems a clear indicator of a chamber or cist. There are some flat blocks surfacing ca. 4 m inward from the outer perimeter that may indicate a stone circle/krepis wall (or rather inner stone circle)				
<i>Site interpretation</i> Group of kurgans				

DSP07-H19-05	Core units	Coordinates 488620/5040904		Figs. 4.209, 4.221
	Interpretation Kurgan group	Estimated size –	Date range Unknown	
Description This is a group of two kurgans on the lower end of the hill situated close together.				
Kurgan 16	Coordinates (centre) 488597/5040918	Diameter 16 m	Status Excavated/looted?	
	Architecture Grave chamber? Stone circle?	Surface finds None	Geomagnetic survey No	
Description Kurgan 16 is a rather low mound covered with a dense packing of small limestone rubble. The kurgan has a depression in the middle. At ca. 3.50 m inwards from the perimeter there are stones visible that may indicate the existence of an inner stone circle. If so, then we would in this particular case deal with orthostats as part of the stone circle. Near the centre is a large orthostat that may indicate the existence of a grave chamber or cist				
Kurgan 17	Coordinates (centre) 488643/5040889	Diameter 18 m	Status Possibly intact	
	Architecture Stone circle?	Surface finds None	Geomagnetic survey No	
Description Kurgan 17 is a large low mound covered with rather sparse small limestones. The centre of the mound is slightly depressed, but there is not much debris at the surface. The mound may, therefore, be intact. Inwards of the mound here and there limestone blocks are visible that may indicate the existence of a stone circle. There are no stones visible in the centre indicative of a grave chamber. In fact the mound may be untouched				
Site interpretation Group of kurgans				

DSP07-H19-06	Core units	Coordinates 489220/5037665		Figs. 4.210, 4.216, 4.222-223
	Interpretation Kurgan group	Estimated size –	Date range Unknown	
<i>Description</i> This is a group of 5 kurgans on the edge of the plateau of which 18 to 21 are more or less aligned. A larger kurgan, no. 22 lies excentric to these. Amidst the remains of a (sub)-recent structure were mapped.				
Kurgan 18	Coordinates (centre) 489200/5037726	Diameter 13 m	Status	
	Architecture Stone circle?	Surface finds None	Geomagnetic survey No	
<i>Description</i> Kurgan 18 has abundant vegetation on top. It has a sparse packing of limestone rubble at the surface, although this may be partially hidden by the grass. There are no signs of orthostats protruding from the central part of the mound. Some large blocks at ca. 3 m inwards from the mound's perimeter may indicate a stone circle, but this is far from clear and thus rather hypothetical. The S slope seems damaged				
Kurgan 19	Coordinates (centre) 489208/5037689	Diameter 15 m	Status	
	Architecture Grave chamber? Stone circle?	Surface finds None	Geomagnetic survey No	
<i>Description</i> Kurgan 19 is a fairly high, medium large mound with in the centre a protruding stone, maybe a head stone or a large stone lining one of the grave chamber/cist walls. On the S side large stones may indicate the existence of a stone circle				
Kurgan 20	Coordinates (centre) 489240/5037659	Diameter 13 m	Status	
	Architecture No visible remains	Surface finds None	Geomagnetic survey No	
<i>Description</i> Kurgan 20 is a medium large, low mound covered with a sparse limestone packing. No sign of stones indicating the existence of grave architecture. A large stone on the E side may indicate the existence of an inner stone circle, but this is very hypothetical				
Kurgan 21	Coordinates (centre) 489313/5037641	Diameter 11-16 m	Status Intact	
	Architecture Stone circle	Surface finds None	Geomagnetic survey No	
<i>Description</i> Kurgan 21 is a medium large, low mound, covered with a sparse lime stone rubble packing. The mound has a very regular form and there are no signs of a grave chamber or cist architecture. The mound seems untouched. At ca. 2.5 m. from the perimeter inwards there are large blocks that quite convincingly form a circle				
Kurgan 22	Coordinates (centre) 489177/5037615	Diameter 20-22 m	Status Looted/excavated?	
	Architecture None visible	Surface finds None	Geomagnetic survey No	

Description

Kurgan 22 is a large, high mound, with a depression in the central part (excavated? looted? or just an attempt at?). No clear remains of grave architecture are visible at the surface, although there are some large blocks lying about. There is quite some vegetation on the mound through which one can discern the limestone rubble covering the surface of the mound. No signs at the surface of the existence of an inner stone circle

Site interpretation

Group of kurgans

DSP08-H19-07	Core units	Coordinates 489046/5037633		Figs. 4.211, 4.224-225
	Interpretation Kurgan group	Estimated size –	Date range Unknown	
<p><i>Description</i> This is a group of 3 kurgans on the edge of the plateau, two of which (23 and 24) are located relatively close to each other, 25 is located at some distance of the latter two. Amidst of them were found wall remains of (sub)recent date.</p>				
<p>Wall remains near DSP08-H19-07 Also was mapped what at first seemed to be a looted kurgan but which appeared to be the remains of a rectangular structure. Several parts of wall are visible at the surface at a substantial elevation above ground level. This may indicate that there are several layers of stones on top of each other. The structure is orientated E-W over its length axis. The blocks join without cement. Wall blocks have flat sides when facing towards the exterior or interior. A number of blocks (all of local hard limestone) have been cut. These measure 50 x 20 cm, others are irregular in form. The approximate dimensions of the structure are 6 x 4 m. Associated with the walls were two terracotta bricks that seem fairly recent. This is most likely a sub-recent structure. The brick remains were collected as grab sample 3092 “brick found in stone structure near kurgan 25”</p>				
Kurgan 23	Coordinates (centre) 489075/5037659	Diameter 14 (NS) – 15 (EW) m	Status Intact	
	Architecture Loose boulders	Surface finds None	Geomagnetic survey No	
<p><i>Description</i> This is a medium low mound that seems still intact. In its central part, some large boulders lie at the surface (40 x 30 cm max.). On the sides of the kurgan, smaller stones surface, but there is no dense packing visible. The soil at the surface is blackish and quite loose. It is covered by regular steppe vegetation. The mound lies S of the track on which it borders</p>				
Kurgan 24	Coordinates (centre) 489034/5037610	Diameter 14 m	Status Disturbed	
	Architecture No remains visible	Surface finds None	Geomagnetic survey No	
<p><i>Description</i> Low mound ‘smeared out’ towards the NW side where the slope is very gentle. Towards the SE there is an unnatural outflow of soil which renders the normally circular form of a kurgan irregular. It seems therefore that part of the top of the mound has been moved aside. There is, however, no robber’s pit visible in the middle. On the sides of the mound, medium large (40 x 30 cm) limestones surface (as with Kurgan 23), but no dense packing can be seen. This mound has a brownish soil covered by regular steppe vegetation. No signs of recent disturbance</p>				
Kurgan 25	Coordinates (centre) 488911/5037657	Diameter 21 m	Status Disturbed	
	Architecture No remains visible	Surface finds None	Geomagnetic survey No	
<p><i>Description</i> This is the highest and by far the largest mound of the group. It slopes evenly on all sides, but in the middle it is concave with a convex centre. Apparently, it has been topped off and a circular trench was dug into the mound. Occasionally fairly large stones surface on the sides of the mound (ca. 50 x 40 cm). The N slope shows a reasonably dense packing of smaller stones. In the trench dug in the top there are a number of recent wall blocks with cement attached lying about. These are not of local limestone. Possibly the mound has been reused for some purpose unknown to us (war trench?). The larger part of the sides of the mound are covered by normal steppe vegetation and do not seem to be disturbed</p>				
<p><i>Site interpretation</i> Group of kurgans</p>				

DSP08-H19-08	Core units	Coordinates 489984/5037665		Figs. 4.212, 4.225-227
	Interpretation Kurgan group	Estimated size –	Date range Unknown	
<i>Description</i> This is a group of five kurgans on the edge of the plateau, four of which were placed close to each other, one lies excentric to the group				
Kurgan 26	Coordinates (centre) 490047/5037676	Diameter 13 m EW x 14 m NS	Status Looted	
	Architecture No remains visible	Surface finds None	Geomagnetic survey No	
<i>Description</i> This is a low mound of 13 m E-W and 14 m N-S. Its sides are covered with a rather dense packing of small limestones (20 x 20 cm), some loose on the surface. The kurgan has been looted: the inner part is completely removed to a depth of ca. 60 cm. The inner side gives a good view on the packing of stones with brownish loose soil in between. The slopes of the mound have normal steppe vegetation and seem not to have been disturbed. Most stone debris has been thrown out onto the E slope of the mound. In the vicinity of the mound more digging has taken place. Especially towards the N, various pits are visible				
Kurgan 27	Coordinates (centre) 489979/5037618	Diameter 17 m	Status Looted	
	Architecture No remains visible	Surface finds None	Geomagnetic survey No	
<i>Description</i> This is a large low mound with very gentle slopes. There are a few stones at the surface. A clandestine pit of ca. 1 x 1 m has been dug into the top of the mound on the W side. This is clear from the different vegetation. A smaller pit may have been dug in the E part of the mound, but this is not clear				
Kurgan 28	Coordinates (centre) 489960/5037576	Diameter 23 m	Status Disturbed	
	Architecture Possible traces of a grave chamber	Surface finds None	Geomagnetic survey No	
<i>Description</i> This is a large and once high mound. A trench had been dug from the S slope into the mound removing the entire centre (war trench?). In the middle are large stones lying about, most out of situ. These may indicate that the mound originally had a grave chamber, but there is no clear evidence. The trench dug into the mound continues towards the S where it seems to have destroyed another mound (which was measured in with the Total Station as Kurgan 31)				
Kurgan 29	Coordinates (centre) 489946/5037548	Diameter Between 16 and 17 m	Status Limited disturbance	
	Architecture Possible remains	Surface finds None	Geomagnetic survey No	
<i>Description</i> This is a medium high mound. It is somewhat concave in the middle, indicating only limited digging. In the centre large stones with flat sides are visible, possibly an indication of grave architecture. The sides of this mound have a dense packing of limestones of ca. 20 x 20 cm, though some stones are larger				
Kurgan 30	Coordinates (centre) 489904/5037556	Diameter Ca. 13 m	Status Disturbed	
	Architecture No remains visible	Surface finds None	Geomagnetic survey No	

Description

This is a low mound of which the W half has been removed. It has a quite dense packing of stones preserved on its sides. Some large stones surface at the top. There is, however, no sign of grave architecture

Kurgan 31	<i>Location</i> Directly S of Kurgan 28	<i>Diameter</i> Unknown	<i>Status</i> Destroyed
	<i>Architecture</i> None visible	<i>Surface finds</i> None	<i>Geomagnetic survey</i> No

Description

This kurgan has been excavated for the larger part; it could only be recognized through the presence of low 'left-overs' of its sides that show the dense stone packing typical for kurgans. Some large stones lie about. This kurgan may have been destroyed during WW II (pers. comm. A. Kajarka)

Site interpretation

Group of kurgans

DSP08-H19-09	Core units 20035-36, H19	Coordinates 488583/5040350		Figs. 4.271-272
	Adjacent units H01, H03, H12 and H24			
	Interpretation Area of quarries	Estimated size –	Date range Modern?	
Feature 1	Core units H19	Coordinates 488541/5040406		
	Interpretation Quarry	Estimated size Length 66 m	Date range Modern?	
Feature 2	Core units 20035	Coordinates 488588/5040340		
	Interpretation Quarry	Estimated size Length 23 m	Date range Modern?	
Feature 3	Core units 20035-36	Coordinates 488670/5040279		
	Interpretation Quarry	Estimated size Length 83 m	Date range Modern?	
Feature 4	Core units H19	Coordinates 488771/5040277		
	Interpretation Quarry	Estimated size Length 28 m	Date range Modern?	
Feature 5	Core units 20036	Coordinates 4887670/5040199		
	Interpretation Quarry	Estimated size Length 31 m	Date range Modern?	
Feature 6	Core units 20036	Coordinates 488929/5040093		
	Interpretation Quarry	Estimated size Length 27 m	Date range Modern?	
Topography DSP08-H19-09 is located on Hill 19, a long slope running from the top of the ridge to the cultivated zone				
Investigations Extensive survey Koltuchov site 49b Intensive survey Area of quarrying spread over 500 m. A single Early Modern sherd was collected in the area (20035/01)				
Site interpretation Probably recent quarrying				

DSP08-H20-01	<i>Core units</i> 20009	<i>Coordinates</i> 493719/5041094		<i>Fig.</i> 4.247
	<i>Adjacent units</i> H8 and H21			
	<i>Interpretation</i> Settlement?	<i>Estimated size</i> —	<i>Date range</i> LC-EH	
<i>Topography</i> DSP08-H20-01 is located on Hill 20 on the top of the ridge just on the edge of a large ploughed field in an area which was cultivated in the recent past based on the vegetation				
<i>Investigations</i> Intensive survey Small scatter of pottery and flint (20009/01-04 and 20011/03)				
<i>Site interpretation</i> Possibly the edge of a settlement located in the cultivated field to the S				

DSP08-H21-01	<i>Core units</i> H21	<i>Coordinates</i> 494502/5041672		<i>Figs.</i> 4.262-263
	<i>Adjacent units</i> 20022-23			
	<i>Interpretation</i> Settlement	<i>Estimated size</i> 37 x 40 m	<i>Date range</i> Modern	
<i>Topography</i> DSP08-H21-01 is located on Hill 21 on the top of the ridge just N of an area which was cultivated in recent times based on the vegetation				
<i>Investigations</i> Intensive survey Square patch of high, intense vegetation. No finds, but a piece of iron embedded in the soil may be a plough fr. caught on a stone although no large stones are visible				
<i>Site interpretation</i> Near contemporary settlement				

DSP08-H22-01	Core units 20056-57, H22	Coordinates 487072/5038333		Fig. 4.295
	Adjacent units H04-5, H09, H11 and H13			
	Interpretation Group of kurgans	Estimated size	Date range Unknown	
Feature 1	Core units H22	Coordinates 487008/5038394		
	Interpretation Kurgan	Estimated size Diameter 6.5 m	Date range Unknown	
Feature 2	Core units 20056	Coordinates 487023/5038376		
	Interpretation Kurgan	Estimated size Diameter 10 m	Date range Unknown	
Feature 3	Core units 20056	Coordinates 487079/5038336		
	Interpretation Kurgan	Estimated size Diameter 9 m	Date range Unknown	
Feature 4	Core units 20056-57	Coordinates 487097/5038319		
	Interpretation Kurgan	Estimated size Diameter 16.5 m	Date range Unknown	
Feature 5	Core units 20056	Coordinates 487092/5038286		
	Interpretation Kurgan	Estimated size Diameter 17 m	Date range Unknown	
Topography DSP08-H22-01 is located on the upper part of Hill 22, a long promontory running from the top of the ridge to the cultivated zone				
Investigations Intensive survey Rough line of five grassy elevations. A single inconclusive body fr. (20057/02)				
Site interpretation Group of kurgans				

DSP08-H22-02	<i>Core units</i> 20057	<i>Coordinates</i> 487118/5037938		<i>Fig.</i> 4.295
	<i>Adjacent units</i> 20056, H04-5, H09, H11 and H13			
	<i>Interpretation</i> Kurgan	<i>Estimated size</i> 0.02 ha	<i>Date range</i> Unknown	
<i>Topography</i> DSP08-H22-02 is located on Hill 22, 350 m S of the southernmost kurgan of DSP08-H22-01				
<i>Investigations</i> Intensive survey Single grassy elevation. No finds immediately associated, but six frs. of Early Modern cooking pot (20057/01) were collected 65 m to the NE				
<i>Site interpretation</i> Kurgan				

DSP07-H22-03	Core units 20056-57	Coordinates 487205/5037507		Fig. 4.295
	Adjacent units H04-5, H09, H11 and H13			
	Interpretation Settlement/group of kurgans	Estimated size	Date range Modern/?	
Feature 1	Core units 20057	Coordinates 487090/5037590		
	Interpretation Quarry	Estimated size Length 10.5 m	Date range Unknown	
Feature 2	Core units 20056	Coordinates 487186/5037610		
	Interpretation Kurgan?	Estimated size Diameter 7 m	Date range Unknown	
Feature 3	Core units 20057	Coordinates 487205/5037564		
	Interpretation Kurgan?	Estimated size Diameter 10.5 m	Date range Unknown	
Feature 4	Core units 20057	Coordinates 487194/5037534		
	Interpretation Kurgan?	Estimated size Diameter 15.5 m	Date range Unknown	
Feature 5	Core units 20057	Coordinates 487159/50375217		
	Interpretation Structure?	Estimated size 44 x 47 m	Date range Modern	

Feature 6	Core units 20056-57	Coordinates 487165/5037490		
	Interpretation Kurgan?	Estimated size Diameter 7 m	Date range Unknown	
Feature 7	Core units 20056	Coordinates 487222/5037529		
	Interpretation Kurgan?	Estimated size Diameter 26.5 m	Date range Unknown	
Feature 8	Core units 20056-57	Coordinates 4872120/5037494		
	Interpretation Structure	Estimated size 10.5 x 6.5 m	Date range Modern	
Feature 9	Core units 20057	Coordinates 487198/5037477		
	Interpretation Kurgan?	Estimated size Diameter 19 m	Date range Unknown	
Feature 10	Core units 20057	Coordinates 487213/5037447		
	Interpretation Structure?	Estimated size Diameter 7.5 m	Date range Modern	
Feature 11	Core units 20056-57	Coordinates 487219/5037424		
	Interpretation Structure?	Estimated size 29 x 24.5 m	Date range Modern	
Feature 12	Core units 20057	Coordinates 487232/5037407		
	Interpretation Kurgan?	Estimated size Diameter 14 m	Date range Unknown	
<i>Topography</i> DSP07-H22-03 is located on the top of the ridge of Hill 22, a long promontory running from the top of the ridge to the cultivated zone				
<i>Investigations</i> Intensive survey Three square patches of high, intense vegetation (Feature 5, 10-11) and a stone foundation (Feature 8) among six grassy elevations. No finds associated.				
Geomagnetic survey Eastern Atlas <i>Dimensions</i> 53 x 740 + 101 x 100 m		<i>Description of measuring conditions</i> Many dipole anomalies		
<i>Interpretation of features</i> The surveyed area crosses only part of the site and none of the features are clearly visible due to the many dipole anomalies caused by metal or other debris. At the southern edge of the site several pits were recorded as well as possible ditches				
<i>Site interpretation</i> Near contemporary settlement associated with a group of kurgans				

DSP08-H23-01	Core units 20041-42, H23	Coordinates 487796/5039387		Fig. 4.277
	Adjacent units H11, H13 and H24			
	Interpretation Group of kurgans	Estimated size	Date range Unknown	
Feature 1	Core units 20041-42	Coordinates 487801/5039653		
	Interpretation Kurgan	Estimated size Diameter 10.5 m	Date range Unknown	
Feature 2	Core units 20042	Coordinates 487731/5039586		
	Interpretation Kurgan	Estimated size Diameter 11 m	Date range Unknown	
Feature 3	Core units 20042	Coordinates 487784/5039505		
	Interpretation Kurgan	Estimated size Diameter 10.5 m	Date range Unknown	
Feature 4	Core units H23	Coordinates 487787/5039461		
	Interpretation Kurgan	Estimated size Diameter 9.5 m	Date range Unknown	
Feature 5	Core units 20042	Coordinates 487759/5039441		
	Interpretation Kurgan	Estimated size Diameter 10.5 m	Date range Unknown	
Feature 6	Core units H23	Coordinates 487884/5039335		
	Interpretation Kurgan	Estimated size Diameter 13 m	Date range Unknown	
Feature 7	Core units H23	Coordinates 487843/5039307		
	Interpretation Kurgan	Estimated size Diameter 14 m	Date range Unknown	
Feature 8	Core units H23	Coordinates 487887/5039277		
	Interpretation Kurgan	Estimated size Diameter 10.5 m	Date range Unknown	
Feature 9	Core units 20042	Coordinates 487837/5039229		
	Interpretation Kurgan	Estimated size Diameter 14 m	Date range Unknown	

<i>Topography</i> DSP08-H23-01 is located on the W edge of Hill 23, a long promontory running from the top of the ridge to the cultivated zone	
<i>Investigations</i> Intensive survey Nine grassy elevations recorded in an area of thin soils. A single sherd which could not be dated was collected (20042/02)	
Geomagnetic survey Eastern Atlas <i>Dimensions</i> 700 x 53 m	<i>Description of measuring conditions</i> Some dipole anomalies in the S
<i>Interpretation of features</i> The southernmost kurgan of the group (Feature 9) was detected at the E margin, close to the centre of the surveyed area.	
<i>Site interpretation</i> Group of kurgans	

DSP08-H23-02	Core units 20041-42	Coordinates 4879211/ 5038947		Fig. 4.277
	Adjacent units H11, H13 and H24			
	Interpretation Settlement?	Estimated size 2,000 m²	Date range LC-EH?	
Feature 1	Core units 20042	Coordinates 487889/5039003		
	Interpretation Curved bank/wall?	Estimated size Length 57 m	Date range LC-EH?	
Feature 2	Core units 20041-42	Coordinates 487946/5038909		
	Interpretation Rectangular structure?	Estimated size 40 x =/>13 m	Date range LC-EH?	
<i>Topography</i> DSP08-H23-02 is located along the W edge of Hill 23, a long promontory running from the top of the ridge to the cultivated zone				
<i>Investigations</i> Intensive survey No structures were observed on the surface only two sherds one of which is Hellenistic (20041/06 and 20042/01)				
Geomagnetic survey Eastern Atlas Dimensions 700 x 53 m		Description of measuring conditions Some dipole anomalies in the S		
Interpretation of features Approximately in the middle of the surveyed area some several meters long linear anomalies were detected (Feature 2). These patterns seem to be structures with irregular pits inside. A slightly curved black and white linear anomaly is noticeable (Feature 1). It is of unknown origin and could be archaeological				
Site interpretation Settlement?				

DSP08-H24-01	Core units 20040, H24	Coordinates 488137/5040149		Fig. 4.274
	Adjacent units 20039, H19 and H23			
	Interpretation Group of kurgans	Estimated size	Date range LC-EH?	
Feature 1	Core units 20040	Coordinates 488073/5040208		
	Interpretation Kurgan	Estimated size Diameter 14.5 m	Date range LC-EH?	
Feature 2	Core units 20040	Coordinates 488085/5040171		
	Interpretation Kurgan	Estimated size Diameter 15 m	Date range LC-EH?	
Feature 3	Core units H24	Coordinates 488153/5040160		
	Interpretation Kurgan	Estimated size Diameter 15.5 m	Date range LC-EH?	
Feature 4	Core units H24	Coordinates 488215/5040151		
	Interpretation Kurgan	Estimated size Diameter 15.5 m	Date range LC-EH?	
Feature 5	Core units H24	Coordinates 488212/5040106		
	Interpretation Kurgan	Estimated size Diameter 13 m	Date range LC-EH?	
Feature 6	Core units 20040, H24	Coordinates 488176/5040100		
	Interpretation Kurgan	Estimated size Diameter 11 m	Date range LC-EH?	
Feature 7	Core units H24	Coordinates 488153/5040100		
	Interpretation Kurgan	Estimated size Diameter 13 m	Date range LC-EH?	
Feature 8	Core units H24	Coordinates 488189/5040088		
	Interpretation Kurgan	Estimated size Diameter 12 m	Date range LC-EH?	
Topography DSP08-H24-01 is located in the lower part on the W edge of Hill 24, a long narrow promontory running from the top of the ridge to the cultivated zone				
Investigations Intensive survey Eight grassy elevations associated with a Hellenistic amphora sherd (GS 3217) collected from Feature 3. A Hellenistic amphora fr. and a piece of flint (20039/01, 20040/03-04) were collected approximately 100 m uphill				

Site interpretation
Group of kurgans

DSP08-H24-02	<i>Core units</i> 20040	<i>Coordinates</i> 488591/5039502		<i>Fig.</i> 4.274
	<i>Adjacent units</i> H19 and H23			
	<i>Interpretation</i> Group of kurgans	<i>Estimated size</i>	<i>Date range</i> Unknown	
Feature 1	<i>Core units</i> 20040	<i>Coordinates</i> 488473/5039597		
	<i>Interpretation</i> Kurgan	<i>Estimated size</i> Diameter 8.5 m	<i>Date range</i> Unknown	
Feature 2	<i>Core units</i> 20040	<i>Coordinates</i> 488505/5039539		
	<i>Interpretation</i> Kurgan	<i>Estimated size</i> Diameter 8.5 m	<i>Date range</i> Unknown	
Feature 3	<i>Core units</i> 20040, H24	<i>Coordinates</i> 488541/5039512		
	<i>Interpretation</i> Kurgan	<i>Estimated size</i> Diameter 8.5 m	<i>Date range</i> Unknown	
Feature 4	<i>Core units</i> H24	<i>Coordinates</i> 488621/5039487		
	<i>Interpretation</i> Kurgan	<i>Estimated size</i> Diameter 10.5 m	<i>Date range</i> Unknown	
Feature 5	<i>Core units</i> H24	<i>Coordinates</i> 488685/5039535		
	<i>Interpretation</i> Kurgan	<i>Estimated size</i> Diameter 9 m	<i>Date range</i> Unknown	
Feature 6	<i>Core units</i> H24	<i>Coordinates</i> 488712/5039549		
	<i>Interpretation</i> Kurgan	<i>Estimated size</i> Diameter 12 m	<i>Date range</i> Unknown	
Feature 7	<i>Core units</i> H24	<i>Coordinates</i> 488657/5039418		
	<i>Interpretation</i> Kurgan	<i>Estimated size</i> Diameter 11 m	<i>Date range</i> Unknown	

Topography

DSP08-H24-02 is located around the middle of Hill 24, a long narrow promontory running from the top of the ridge to the cultivated zone

Investigations

Intensive survey Seven grassy elevations associated with five sherds collected within a distance of 100 m of the westernmost one (20039/03-07 and 20040/01). Only one can be dated to the Hellenistic period

Geomagnetic survey Eastern Atlas <i>Dimensions</i> 175 x 148 m	<i>Description of measuring conditions</i> Considerable geological anomalies
<i>Interpretation of features</i> Four kurgans (Features 3-6) were visible on the surface, but only three of these archaeological features show up as very weak circular patterns	
<i>Site interpretation</i> Group of kurgans	

DSP08-H24-03	<i>Core units</i> 20039-40	<i>Coordinates</i> 488637/5039060		<i>Figs.</i> 4.274-276
	<i>Adjacent units</i> H19 and H23			
	<i>Interpretation</i> Settlement?	<i>Estimated size</i> 300 m ² ha	<i>Date range</i> LC-EH?	
Feature 1	<i>Core units</i> 20039	<i>Coordinates</i> 488648/5039058		
	<i>Interpretation</i> Structure?	<i>Estimated size</i> 22 x 18 m	<i>Date range</i> LC-EH?	
Feature 2	<i>Core units</i> 20040	<i>Coordinates</i> 488731/5039059		
	<i>Interpretation</i> Quarry	<i>Estimated size</i> Length 22 m	<i>Date range</i> Unknown	
<i>Topography</i> DSP08-H24-03 is located in the upper part of Hill 24, a long narrow promontory running from the top of the ridge to the cultivated zone				
<i>Investigations</i> Intensive survey Slight elevation with different vegetation (Feature 1) associated with Hellenistic amphora sherd (20039/10) and possible quarry (Feature 2) approximately 70 m to the E				
<i>Site interpretation</i> Small Hellenistic (?) settlement or storage site?				

DSP08-H25-01	Core units 20031, H25	Coordinates 489691/5041081		Fig. 4.267
	Adjacent units 20032, H01-03 and H07			
	Interpretation Group of kurgans	Estimated size	Date range Unknown	
Feature 1	Core units H25	Coordinates 4896709/5041101		
	Interpretation kurgan	Estimated size Diameter 20.5 m	Date range Unknown	
Feature 2	Core units 20031, H25	Coordinates 489694/5041069		
	Interpretation kurgan	Estimated size Diameter 10 m	Date range Unknown	
Feature 3	Core units 20031	Coordinates 489716/5041048		
	Interpretation kurgan	Estimated size Diameter 17.5 m	Date range Unknown	
Topography DSP08-H25-01 is located on Hill 25, a narrow promontory in the lower part of the hillsides				
Investigations Intensive survey Three grassy elevations associated with a single sherd of unknown date (20031/01)				
Geomagnetic survey Eastern Atlas Dimensions 550 x 75 m		Description of measuring conditions Dipole anomalies and large irregular, natural anomalies		
Interpretation of features The northernmost kurgan (Feature 1) is detectable on the SW edge of the upper third. Only central anomalies/the chambers? are detected in Features 2-3				
Site interpretation Group of kurgans				

DSP08-H25-02	Core units 20031	Coordinates 489850/5040589		Figs. 4.267-268
	Adjacent units H01-03 and H07			
	Interpretation Group? of Kurgans	Estimated size –	Date range Unknown	
Feature 1	Core units 20031	Coordinates 489836/5040591		
	Interpretation Kurgan	Estimated size Diameter 7 m	Date range Unknown	
Feature 2	Core units 20031	Coordinates 489864/5040586		
	Interpretation Kurgan	Estimated size Diameter 6.5 m	Date range Unknown	
Topography DSP08-H25-02 is located on Hill 25, a narrow promontory in the lower part of the hillsides				
Investigations Intensive survey Small grassy elevation, but no finds associated				
Geomagnetic survey Eastern Atlas Dimensions 75 x 550 m		Description of measuring conditions Dipole anomalies and large irregular, natural anomalies		
Interpretation of features Kurgan (Feature 1) clearly detectable on the SW edge. Strong positive anomalies S of it				
Site interpretation Kurgans				

DSP08-H26-01	<i>Core units</i> 20000, H26	<i>Coordinates</i> 491715/5042001		<i>Figs.</i> 4.230-231
	<i>Adjacent units</i> H06 and H16			
	<i>Interpretation</i> Group of kurgans?	<i>Estimated size</i> –	<i>Date range</i> LC-EH?	
Feature 1	<i>Core units</i> H26	<i>Coordinates</i> 491652/5042007		
	<i>Interpretation</i> Kurgan	<i>Estimated size</i> Diameter 9 m	<i>Date range</i> LC-EH?	
Feature 2	<i>Core units</i> 20000	<i>Coordinates</i> 491794/5042004		
	<i>Interpretation</i> Kurgan?	<i>Estimated size</i> Diameter 13.5 m	<i>Date range</i> LC-EH?	
<i>Topography</i> DSP08-H26-01 is located on the lower part of Hill 26, a wide promontory in the lower part of the hillsides				
<i>Investigations</i> Intensive survey Two grassy elevations associated with a possible Herakleian amphora fr. (GS 3200) collected by Feature 1				
<i>Site interpretation</i> Group (?) of kurgans				

DSP08-H26-02	Core units 20001, 20030, H26	Coordinates 491930/5041989		Figs. 4.230, 4.232
	Adjacent units 20000, 200029, H06 and H16			
	Interpretation Group of kurgans	Estimated size	Date range LC-EH?	
Feature 1	Core units 20001	Coordinates 491901/5042028		
	Interpretation Kurgan	Estimated size Diameter 12.5 m	Date range LC-EH?	
Feature 2	Core units H26	Coordinates 491929/5042027		
	Interpretation Spoil heap?	Estimated size Diameter 8.5 m	Date range LC-EH?	
Feature 3	Core units 20001	Coordinates 491924/5042006		
	Interpretation Spoil heap?	Estimated size Diameter 8.5 m	Date range LC-EH?	
Feature 4	Core units 20001	Coordinates 491919/5041993		
	Interpretation Spoil heap?	Estimated size Diameter 10.5 m	Date range LC-EH?	
Feature 5	Core units 20001	Coordinates 491929/5041974		
	Interpretation Kurgan	Estimated size Diameter 15.5 m	Date range LC-EH?	
Feature 6	Core units 20001, 20030	Coordinates 491970/50419769		
	Interpretation Kurgan	Estimated size Diameter 20 m	Date range LC-EH?	
Topography DSP08-H26-02 is located on the lower part of Hill 26, a wide promontory in the lower part of the hillsides				
Investigations Intensive survey Three grassy elevations associated with heaps of rock frs. Five Hellenistic sherds associated with the area (20001/01, 20029/01 and 20030/01), three of which came from just N of Feature 6				
Site interpretation Group of kurgans				

DSP08-H27-01	<i>Core units</i> H27	<i>Coordinates</i> 495868/5042411		<i>Fig.</i> 4.228
	<i>Adjacent units</i> H15			
	<i>Interpretation</i> Farmstead	<i>Estimated size</i> 1,000 m ²	<i>Date range</i> Modern?	
<i>Topography</i> DSP08-H27-01 is located on the NW edge of Hill 27				
<i>Investigations</i> Extensive survey Koltuchov site 37. Large roughly square patch of intense vegetation with cut-away corners towards the N				
<i>Site interpretation</i> Near contemporary farmstead				

DSP08-H28-01	<i>Core units</i> H28	<i>Coordinates</i> 492099/5042234		<i>Fig.</i> 4.229
	<i>Adjacent units</i> H26 and H16			
	<i>Interpretation</i> Storage site?	<i>Estimated size</i> 170 m ²	<i>Date range</i> Modern?	
<i>Topography</i> DSP08-H28-01 is located on the steep NE edge of Hill 28				
<i>Investigations</i> Extensive survey Koltuchov site 52. Roughly square elevation covered with intense shrub and two small patches of shrub. Same type of shrub as covers the W structures of DSP08-H12-01				
<i>Site interpretation</i> Storage site? Date unknown				

Baj Kijat 1 (and 2) ⁹⁸		<i>Coordinates</i> 500187/5058205		<i>Figs.</i> 4.1-2
	<i>Interpretation</i> Settlement; large ash hill	<i>Estimated size</i> 300 x 700 m	<i>Date range</i> Middle BA; Late BA; LC-EH	
<i>Topography</i> On a gentle slope facing the sea				
<i>Investigations</i> Excavations in 1973-1974 (A.A. Šepinskij) and 1991-1995 (V.A. Kolotuchin). The excavation alone concerned the Bronze Age settlement. Visited during the DSP Extensive survey 17.05.07; GS 3009 <i>Additional information</i> The excavations have brought to light a number of rectangular one-room houses built in field stones. The houses follow the same orientation. Inside the houses were hearths. The area of the houses is 30-56 m ²				
<i>Site interpretation</i> Multi-period settlement				
<i>Bibliography</i> Kolotuchin 1997; Kolotuchin 2003, 31-39, 68 fig. 1.27; Kolotuchin 2007				

Baj Kijat 3		<i>Coordinates</i> 499979/5058379		<i>Fig.</i> 4.2
	<i>Interpretation</i> Farmhouse? settlement?	<i>Estimated size</i> ca. 150 x 250 m	<i>Date range</i> LC-EH; EM	
<i>Topography</i> Located on flat terrace facing the sea; to the E a small ravine				
<i>Investigations</i> Found during the DSP Extensive survey 17.05.07; GS 3010				
<i>Site interpretation</i> Farmhouse or settlement?				
<i>Bibliography</i> —				

100 When extensively surveyed in 2007 by the DSP team, the site was divided as Baj Kijat 1 and 2, but since the excavator includes the entire area as one site, the distinction has been given up. Accordingly there is no Baj Kijat 2.

Burun Eli 1		<i>Coordinates</i> 496838/5053761		
	<i>Interpretation</i> Settlement	<i>Estimated size</i> 3 ha	<i>Date range</i> Late BA, 'Ancient'; Late Scythian; Medieval ⁹⁹	
<i>Topography</i> Situating on tongue at confluence of two streams				
<i>Investigations</i> Excavated by V.A. Kolotuchin (1988-1990). The excavation alone concerned the Bronze Age settlement. <i>Additional information</i> Found are a number of rectangular one-room houses built in field stones as well as at least one semi-dugout. The houses by and large follow the same orientation. Inside the houses were hearths. The largest house (sector I house I, Kolotuchin 2003, fig. 36) has an area of 34-36 m ² . The excavator distinguished four different building periods				
<i>Site interpretation</i> Multi-period settlement				
<i>Bibliography</i> Kolotuchin 2003, 28-31, 68 fig. 1.26; Lancov 2004, fig. 1.77-78				

Burun Eli 2		<i>Coordinates</i> 496857/5056469		<i>Figs.</i> 4.7-10
	<i>Interpretation</i> Settlement or farmhouse?	<i>Estimated size</i> ca. 100 x 100 m	<i>Date range</i> LC-EH	
<i>Topography</i> Located on terrace immediately facing the sea; partly eroded away				
<i>Investigations</i> Found by the North-Crimean Expedition in 1987; unexcavated. Visited during the DSP Extensive survey 17.05.07; GS 3011 <i>Additional information</i> In the soil profile eroded by the sea a pavement consisting of large, flat pebbles can be seen (Fig. D). A road leading from the site can clearly be seen as a dip in the terrain. It is directed towards a kurgan (Fig. E)				
<i>Site interpretation</i> Settlement or farmhouse?				
<i>Bibliography</i> Lancov 2004, 62; Lantsov & Uzhentzev 2007, 681				

101 The find of multi-period potsherds is mentioned by Kolotuchin (2003, 28).

Burun Eli 3		<i>Coordinates</i> 497953/5057070		
	<i>Interpretation</i> Settlement or farmhouse?	<i>Estimated size</i> ca. 100 x 30 m	<i>Date range</i> LC-EH	
<i>Topography</i> Situated on terrace immediately facing the sea				
<i>Investigations</i> Found by the North-Crimean Expedition in 1987; unexcavated				
<i>Site interpretation</i> Settlement or farmhouse?				
<i>Bibliography</i> Lancov 2004, 62; Lantsov & Uzhentzev 2007, 681				

Burun Eli 4		<i>Coordinates</i> 495871/5055721		
	<i>Interpretation</i> Settlement; ash hill	<i>Estimated size</i> 50 x 50 m	<i>Date range</i> LC-EH; EM	
<i>Topography</i> Located at cliff close to the sea				
<i>Investigations</i> Found in the 1970s by the North-Crimean Expedition. Visited during the DSP Extensive survey 17.05.07, GS 3021 (derives from the ash hill)				
<i>Site interpretation</i> Unfortified settlement? with ash hill				
<i>Bibliography</i> Ščeglov 1978, fig. 8.44				

Burun Eli 5		<i>Coordinates</i> 495360/5055308		
	<i>Interpretation</i> Farmhouse?; settlement?	<i>Estimated size</i> ca. 100 x 50 m	<i>Date range</i> LC-EH; EM	
<i>Topography</i> Situated at cliff facing the sea				
<i>Investigations</i> Found during the DSP Extensive survey 17.05.07; GS 3022				
<i>Site interpretation</i> Farmhouse? or settlement?				
<i>Bibliography</i> —				

Černomorskoe Settlement (traditionally identified as Kalos Limen)		<i>Coordinates</i> 477655/5040468		<i>Figs.</i> 4.23-27
	<i>Interpretation</i> Fortified city	<i>Estimated size</i> 200 x 140 m	<i>Date range</i> Early 4th c. BC-early 2nd c. AD; late 3rd- early 4th c. AD; 8th- 10th c. AD	
<p><i>Topography</i></p> <p>At the NE outskirts of the modern district town of Černomorskoe by the Uzkaja ('Narrow') Bay is located a small fortified harbour city. Its location, which is drawn back and thus sheltered from the sea, is at the E side of the outer part of the Kel'sejch Ravine. The topography of the site is somewhat altered since antiquity. In early antiquity the city was probably surrounded by water to the W (as today) as well as to the S. At some point, the stream of the Kel'sejch Ravine has been cut off from the sea by a narrow sand barrier thus creating a small brackish lagoon. Today, part of the ancient town is under water</p>				
<p><i>Investigations</i></p> <p>Scientific excavation has taken place in the ancient settlement since 1929 (L.A. Moiseev; for a summary of the excavation history with references, see Užencev 2006, 10-15; Lantsov & Uzhentzev 2006, 699-705). P.N. Schulz worked here in 1933 and in 1948 as did K.E. Grinevič in 1946. The Tauro-Scythian Expedition excavated at the site in 1948 and 1950 (M.A. Nalivkina, G.D. Smirnov) and in 1959 a joint Soviet-Polish expedition worked here (V.F. Gajdukevič, K. Michalowski; M.L. Bernhard). In 1962-1963 the Tarchankut Expedition excavated in the site (A.N. Ščeglov). After a hiatus in the investigations, in 1988 the site became the study object of the West-Crimean Expedition under the direction of V.A. Kutajsov. Recently, the first monograph of the site was published (Užencev 2006)</p>				
<p><i>Site interpretation</i></p> <p>Multi-period fortified city</p>				
<p><i>Bibliography</i></p> <p>Ščeglov 1978, fig. 8.35; Ajbabin 2003, fig. 4.105; Lancov 2004, fig. 1.66; Užencev 2004; Lantsov & Uzhentzev 2006, 699-705; Užencev 2006; Kutajsov & Pridnev 2007</p>				

Černomorskoe farm 1		<i>Coordinates (approx.)</i> 477816/5040932		
	<i>Interpretation</i> Farmhouse	<i>Estimated size</i> ?	<i>Date range</i> LC-EH	
<p><i>Topography</i></p> <p>By Uzkaja Bay, NE of the Černomorskoe Settlement</p>				
<p><i>Investigations</i></p> <p>Excavated by P.N. Schulz in 1933</p> <p><i>Additional information</i> Ščeglov mentions the presence of walls and pits</p>				
<p><i>Site interpretation</i></p> <p>Farmhouse?</p>				
<p><i>Bibliography</i></p> <p>Ščeglov 1967, fig. 2.8</p>				

Černomorskoe farm 2		<i>Coordinates (approx.)</i> 476624/5040055		
	<i>Interpretation</i> Farmhouse	<i>Estimated size</i> ?	<i>Date range</i> LC-EH	
<i>Topography</i> Located by Uzkaja Bay, on the tip of the central promontory between two branches of ravine SW of the Černomorskoe Settlement				
<i>Investigations</i> A.N. Ščeglov, year unknown				
<i>Site interpretation</i> Farmhouse?				
<i>Bibliography</i> Ščeglov 1967, 247, fig. 2.9				

Černomorskoe farm 3		<i>Coordinates (approx.)</i> 475805/5039923.		
	<i>Interpretation</i> Farmhouse	<i>Estimated size</i> ?	<i>Date range</i> LC-EH, Roman	
<i>Topography</i> Located at S side of promontory W of Uzkaja Bay				
<i>Investigations</i> A.N. Ščeglov, year unknown <i>Additional information</i> Stone walls are referred to by Ščeglov as well as Hellenistic material such as Sinopean tiles, Chersonesean and Herakleian amphorai, and <i>louteria</i> of the 3rd-2nd century BC				
<i>Site interpretation</i> Multi-period farmhouse?				
<i>Bibliography</i> Ščeglov 1967, fig. 2.10				

Černomorskoe farm 4		<i>Coordinates (approx.)</i> 475940/5040170		
	<i>Interpretation</i> Farmhouse	<i>Estimated size</i> ?	<i>Date range</i> LC-EH to 2nd c. BC	
<i>Topography</i> Located at S side of promontory W of Uzkaja Bay				
<i>Investigations</i> A.N. Ščeglov, year unknown <i>Additional information</i> Stone walls are referred to by Ščeglov as well as Hellenistic material such as Sinopean tiles, Chersonesean and Herakleian amphorai, and <i>louteria</i> of the 3rd-2nd century BC				
<i>Site interpretation</i> Farmhouse?				
<i>Bibliography</i> Ščeglov 1967, fig. 2.11				

Černomorskoe farm 5		Coordinates 476373/5039509		
	Interpretation Farmhouse	Estimated size ?	Date range LC-EH?	
<i>Topography</i> Located by Uzkaja Bay, on the central promontory between two branches of ravine SW of the Černomorskoe Settlement (Ul. Revoljucii, Florya Pension)				
<i>Investigations</i> The site has never been investigated archaeologically <i>Additional information</i> The mouth of a well crafted in local limestone was found during construction work of the pension (Fig. 4.27). The pension is located just 250 m S of the area, where a corner of a cadastre division wall was found under the market square (Ščeglov 1967, fig. 5)				
<i>Site interpretation</i> Farmhouse				
<i>Bibliography</i> —				

Černomorskoe farm 6		Coordinates (approx.) 477584/5040659		
	Interpretation Farmhouse	Estimated size ?	Date range ?	
<i>Topography</i> By the Uzkaja Bay ca. 200 m N of the settlement; currently located under water				
<i>Investigations</i> No investigations are known to us				
<i>Site interpretation</i> Farmhouse?				
<i>Bibliography</i> Užencev 2006, fig. 4, Ж 1				

Černomorskoe farm 7		Coordinates (approx.) 477644/5040708		
	Interpretation Farmhouse	Estimated size ?	Date range ?	
<i>Topography</i> By the Uzkaja Bay ca. 250 m N of the settlement; the ruin is visible on the beach				
<i>Investigations</i> No investigations are known to us				
<i>Site interpretation</i> Farmhouse?				
<i>Bibliography</i> Užencev 2006, fig. 4, Ж 2				

Černomorskoe farm 8		<i>Coordinates (approx.)</i> 477443/5040832		
	<i>Interpretation</i> Farmhouse	<i>Estimated size</i> ?	<i>Date range</i> ?	
<i>Topography</i> Located at the Uzkaja Bay ca. 400 m NW of the settlement				
<i>Investigations</i> No investigations are known to us				
<i>Site interpretation</i> Farmhouse?				
<i>Bibliography</i> Užencev 2006, fig. 4, Ж 3				

Černomorskoe farm 9		<i>Coordinates (approx.)</i> 477497/5040934		
	<i>Interpretation</i> Farmhouse	<i>Estimated size</i> ?	<i>Date range</i> ?	
<i>Topography</i> Located at the NE promontory of Uzkaja Bay ca. 500 m NW of the settlement				
<i>Investigations</i> No investigations are known to us				
<i>Site interpretation</i> Farmhouse?				
<i>Bibliography</i> Užencev 2006, fig. 4, Ж 4				

Džarylgáč		<i>Coordinates</i> ?		
	<i>Interpretation</i> Settlement?	<i>Estimated size</i> ?	<i>Date range</i> LC-EH	
<i>Topography</i> Located in the vicinity of the village of Vodopojnoe				
<i>Investigations</i> Found by A.A. Ščepinskij, year unknown. Not verified in the DSP survey				
<i>Site interpretation</i> ‘Unfortified settlement’				
<i>Bibliography</i> Ščeglov 1978, fig. 8.42; Ščeglov 2002, pl. 4.26; Užencev 2006, fig. 2.73				

Groty 1		<i>Coordinates</i> 491354/5052569		<i>Fig.</i> 4.6
	<i>Interpretation</i> Unfortified settlement?	<i>Estimated size</i> max. 50 x 100 m	<i>Date range</i> LC-EH; LH	
<i>Topography</i> Located on E slope of high ravine close to the sea coast				
<i>Investigations</i> Found and partly excavated by V.A. Latyševa in the 1970s. Visited during the DSP Extensive survey 17.05.07; GS 3031: this sample is the largest grab sample collected during the DSP survey				
<i>Site interpretation</i> Unfortified settlement?				
<i>Bibliography</i> Ščeglov 1978, fig. 8.3; Lancov 2004, fig. 1.74				

Groty 2		<i>Coordinates</i> 490021/5051391		
	<i>Interpretation</i> Farmhouse?	<i>Estimated size</i> 50 x 50 m	<i>Date range</i> LC-EH	
<i>Topography</i> Located on cliff facing the sea				
<i>Investigations</i> Found in the DSP Extensive survey 17.05.07; GS 3032				
<i>Site interpretation</i> Farmhouse?				
<i>Bibliography</i> —				

Jarylgač		<i>Coordinates</i> ?		
	<i>Interpretation</i> Settlement?	<i>Estimated size</i> ?	<i>Date range</i> LC-EH	
<i>Topography</i> Situated in the pediment S of Lake Džarylgač. The more precise location is unknown				
<i>Investigations</i> Found by members of the Tarchankut Expedition, year unknown. Not verified in the DSP survey				
<i>Site interpretation</i> 'Unfortified settlement'				
<i>Bibliography</i> Ščeglov 1978, fig. 8.40; Užencev 2006, fig. 2.71				

Jarylgač Severnoe		<i>Coordinates (approx.)</i> 486151/5044498		
	<i>Interpretation</i> Settlement?	<i>Estimated size</i> ?	<i>Date range</i> Neolithic	
<i>Topography</i> Located on flat ground close to sea on tip of promontory				
<i>Investigations</i> Found by the Tarchankut Expedition, year unknown <i>Additional information</i> It is likely that the three pieces of flint collected in GS 3001 in fact derive from this settlement				
<i>Site interpretation</i> Settlement?				
<i>Bibliography</i> Unpublished; mentioned in Blagovolin & Ščeglov 2002, 286, pl. 179.VI				

Jarylgač Vostočnoe		<i>Coordinates</i> 486151/5044498		
	<i>Interpretation</i> Settlement?	<i>Estimated size</i> ?	<i>Date range</i> Late BA; LC-EH; Early Middle Ages (Saltovo)	
<i>Topography</i> Situated on W bank of present-day Lake Maloe Solenoe, partly submerged				
<i>Investigations</i> Found by the Tarchankut Expedition in 1975. Three test trenches were excavated; most of the finds consisted of Late Bronze Age handmade pottery and flints				
<i>Site interpretation</i> Multi-period settlement?				
<i>Bibliography</i> Ščeglov et al. 1976; Blagovolin & Ščeglov 2002, 288-290, pl. 179.VII				

Kula Šeich		<i>Coordinates</i> 492785/5053695		
	<i>Interpretation</i> ?	<i>Estimated size</i> ?	<i>Date range</i> EM?	
<i>Topography</i> Situating on W slope of shallow ravine				
<i>Investigations</i> Found in the DSP Extensive survey 17.05.07. Part of an architectural element cut in local limestone was recorded. It may be part of a pilaster. The stone was left where it was found				
<i>Site interpretation</i> The Tatarian toponym Kula Šeich (the tower or castle of the Sheik) may allude to a stone construction no longer preserved (a tomb?). The stone may have pertained to such a structure				
<i>Bibliography</i> —				

Kurama Kostel'		<i>Coordinates</i> 494473/5044892		
	<i>Interpretation</i> Settlement?; ploughed-over kurgan?	<i>Estimated size</i> 300 x 300 m or more	<i>Date range</i> LC-EH; EM	
<i>Topography</i> Located on flat ground slightly inland from the SE side of Džarylgač Lake				
<i>Investigations</i> Found during the DSP Extensive survey 05.05.07; GS 1003. Several patches of grey and powdery soil due to high content of ash				
<i>Site interpretation</i> Settlement or kurgan during the Hellenistic phase. Settlement during the Early Modern period				
<i>Bibliography</i> —				

Masliny 1 (Vladimirovka)		Coordinates 502309/5059394		Figs. 4.4-5
	Interpretation Fortified settlement	Estimated size 200 x 100 m	Date range LC-EH; LH	
<i>Topography</i> Situated on flat cliff immediately to the shore of a small bay; to the W a shallow ravine. Partly eroded away				
<i>Investigations</i> Excavated by V.A. Latyševa between 1972 and 1986; visited during the DSP Extensive survey 17.05.07; GS 3007 <i>Additional information</i> The earliest constructions are in all likelihood three towers constructed in the usual Chersonesean style with drafted margin ashlar (Fig. Q, R) (mid-4th century BC?). These were later incorporated into farmhouses (second half of the 4th century BC?). The houses as well as the lanes inside the settlement are paved with slabs. The settlement perished in a fire in the second half of the 2nd century				
<i>Site interpretation</i> Fortified settlement				
<i>Bibliography</i> Latyševa 1978; Latyševa 1997; Ščeglov 1978, fig. 8.45 [Vladimirovka]; Lancov 2004, fig. 1.80				

Masliny 2		Coordinates 502394/5059420		
	Interpretation Settlement	Estimated size not mentioned	Date range LC-EH	
<i>Topography</i> See Masliny 1				
<i>Investigations</i> See Masliny 1 <i>Additional information</i> The localisation of a pit house excavated in 1965, a number of household pits and an ash hill outside (to the E of) the Masliny Settlement have induced A.N. Ščeglov to suggest that barbarians lived in a separate settlement outside the main fortification (Ščeglov 1978, 82-83)				
<i>Site interpretation</i> Dugout, household pits, ash hill				
<i>Bibliography</i> Ščeglov 1978, 82-83				

Masliny 3		<i>Coordinates</i> 501413/5059108		
	<i>Interpretation</i> Farmhouse?	<i>Estimated size</i> ca. 150 x 50 m	<i>Date range</i> LC-EH	
<i>Topography</i> Located on cliff facing the sea				
<i>Investigations</i> Found during the DSP Extensive survey 12.05.07; GS 3008				
<i>Site interpretation</i> Farmhouse?				
<i>Bibliography</i> —				

Mežvodnoe		<i>Coordinates</i> ?		
	<i>Interpretation</i> Unfortified(?) farmhouse	<i>Estimated size</i> ?	<i>Date range</i> LC-EH	
<i>Topography</i> Located at the Jarylgač Bay; the more precise location is unknown				
<i>Investigations</i> Excavated by T.N. Vysotskaja in 1967. A test trench was occasioned by the occasional find of a limestone relief with a reclining Herakles. Of the farmhouse was only excavated a single room and a courtyard				
<i>Site interpretation</i> Unfortified(?) farmhouse				
<i>Bibliography</i> Vysotskaja 1968; 1969; Ščeglov 1978, fig. 8.41; Lancov 2004, fig. 1.72				

Panskoe I See also DSP07-F01-01		Coordinates 485536/5044250		Figs. 4.31, 4.33-37
	Interpretation Settlement	Estimated size ca. 4 ha + ca. 2 ha submerged ¹⁰⁰	Date range LC-EH; LH	Geomagnetic survey T. Smekalova
<p><i>Topography</i> Situated on extended promontory between Lake Sasyk (now Panskoe) and Jarylgač Bay immediately at the coast of the lake</p>				
<p><i>Investigations</i> Excavated by the Tarchankut Expedition (1969-1994); GS 1004. In 2007 and 2008 the settlement of Panskoe I was surveyed with magnetometer by T.N. Smekalova assisted by A. Čudin. The purpose was to supplement the existing sketch plan, which has been published in several versions in order to determine the extension and composition of its layout (e.g. Ščeglov 2002, pl. 6). In 2007 were measured two large tracts S and W of U6 as well as a large tract E of U7 and a smaller one at the E outskirts of the settlement (Figs. 4.33, 35-36). In 2008 was measured a tract of land 35 m x 85 m E of U6. The results of these measurements allow us to complement the known picture of the settlement history of the site (Chapter 4.3.2.1)</p> <p><i>Interpretation</i> Unlike the majority of the other rural settlements of the region, which are represented by isolated fortified and unfortified farmhouses, the layout of Panskoe is rather unique, as it represents an agglomeration of both well constructed, rectilinear farmhouses and other larger building structures</p>				
<p><i>Site interpretation</i> Settlement</p>				
<p><i>Bibliography</i> Ščeglov 1978, fig. 6.5, 8.36; Panskoe I 2002; Lancov 2004, fig. 1.67; comprehensive bibliography available at http://www.pontos.dk/research/ra_3/publications-devoted-to-panskoye</p>				

Panskoe II /DSP06-F03-01		Coordinates (centre) 485810/5042440		Fig. 4.31
	Interpretation Settlement	Estimated size ca. 40 m across (EM)	Date range LC-EH; LH; EM	
<p><i>Topography</i> Located close to the present S shore of the Sasyk Lake at junction between E-W road and the Panskoe promontory in an unploughed area in the NE corner of Field 3</p>				
<p><i>Investigations</i> Unexcavated; soundings at the settlement were made by T.N. Vysotskaja in the late 1960s</p> <p>Extensive survey A scatter of ca. 40 m across in a patch of greyish soil containing many stones and Early Modern pottery among which pottery with a brown glaze. The halo of finds related to this site continue for only 60 to 80 m and at places much less. This means that there seems hardly any archaeological effect of the site on the surrounding terrain. Grab sample (GS 3002) collected in 2007</p> <p><i>Additional information</i> Scattered in the terrain are a number of ashlar blocks that, provided they have not been transported from elsewhere, indicate that the building was intended as a permanent one. A square tower 10 x 10 m is mentioned by A.N. Ščeglov (Čhtčeglov 1992, 151). An isolated farm is marked on the half-verst map of the 1890s in a location corresponding to this site. It may be the material remains thereof we have located</p>				
<p><i>Site interpretation</i> Multi-period site. Hellenistic fort or fortified farmhouse; Early Modern scatter of pottery, stones and ash, probably a farmhouse</p>				
<p><i>Bibliography</i> Ščeglov 1978, fig. 6.2, 8.37; Čhtčeglov 1992, 151; Lancov 2004, fig. 1.68</p>				

102 Ščeglov 1987, 241.

Panskoe III		<i>Coordinates (approx.)</i> 482117/5042790		<i>Figs.</i> 4.31-32
	<i>Interpretation</i> Farmhouse	<i>Estimated size</i> ?	<i>Date range</i> LC-EH	
<i>Topography</i> Located on gentle slope W of the Sasyk Ravine				
<i>Investigations</i> Located in 1972 (Ščeglov et al. 1973, 354) and excavated by Ju.A. Vinogradov, E.Ja. Rogov, D. Naman in 1978. The building, which lacks its SE side, because it has been eroded away by the lake, may have been square in plan. It consists of a number of rooms grouped around a central courtyard				
<i>Site interpretation</i> Unfortified, isolated farmstead				
<i>Bibliography</i> Ščeglov 1978, fig. 6.3, 8.38; Ščeglov 1985, 5; plan in Ščeglov 1987, 259, fig. 2; Lancov 2004, fig. 1.69				

Panskoe IV		<i>Coordinates (approx.)</i> 484337/5043652		<i>Fig.</i> 4.31
	<i>Interpretation</i> Farmhouse	<i>Estimated size</i> Unknown	<i>Date range</i> LC-EH	
<i>Topography</i> Originally located at side of ravine; today submerged				
<i>Investigations</i> Non-systematically investigated				
<i>Site interpretation</i> Isolated farmhouse				
<i>Bibliography</i> Ščeglov 1978, fig. 6.4, 8.39; Ščeglov 1987, 240; Lancov 2004, fig. 1.70				

Panskoe V/ DSP07-F01-02	<i>Core units</i> 1059-61, 1064, 1068-70, 2046, 2055, 2057-58, 2062	<i>Sample density</i> 20%, 24% and 28%	<i>Coordinates (centre)</i> 485956/5043257	<i>Figs.</i> 4.44-45, 4.47-49,
	<i>Adjacent units</i>	<i>Sample density</i>		
	<i>Interpretation</i> 'Settlement' or ploughed-out kurgans?	<i>Estimated size</i> ?	<i>Date range</i> LC-EH; LH	
Feature 1	<i>Core units</i> 2055	<i>Sample density</i> 20%	<i>Coordinates (centre)</i> 485863/5043261	
	<i>Interpretation</i> Kurgan?	<i>Estimated size</i> Unknown	<i>Date range</i> LC-EH	
Feature 2	<i>Core units</i> 1064, 2046, 2057-58	<i>Sample density</i> 20%	<i>Coordinates (centre)</i> 486017/5043323	
	<i>Interpretation</i> Kurgan?	<i>Estimated size</i> Unknown	<i>Date range</i> LC-EH	
Feature 3	<i>Core units</i> 1059-61, 1068-70, 2062	<i>Sample density</i> 20%	<i>Coordinates (centre)</i> 485879/5043182	
	<i>Interpretation</i> Kurgan?	<i>Estimated size</i> Unknown	<i>Date range</i> LC-EH	
<i>Topography</i> DSP07-F01-02 is located in the S part of the field 'between Panskoe I and II, but closest to II' (quoting Randsborg 1994, 179)				
<i>Investigations</i> The Tarchankut Expedition excavated a kurgan with a stone krepis wall in this general area in the 1980s, but this produced no finds at all. A "settlement" was identified in 1993 during a site visit (K. Randsborg, L. Hannestad and V. Stolba). In 1994, LC-EH pottery from ploughed-out ritual deposits associated with the kurgan cluster was collected and attributed by V. Stolba; a stone altar similar to the ones found in the necropolis of Panskoe I was found at the W edge of field DSP07-1 Extensive survey Inspection of the kurgan outside the surveyed field to the E. This kurgan is grown with grass and seems mostly undamaged. No archaeological finds were collected on the mound itself Intensive survey 50 x 50 m units. High-density scatter of pottery most likely related to a large kurgan is located directly E of the survey units (Feature 1). Two small, non-discrete scatters of stones and pottery frs. (Features 2-3) approximately 230 m W of the kurgan but no clear elevations was observed in the field				
<i>Site interpretation</i> The location corresponds to a group of ploughed-out kurgans, which bordered the large Bronze Age kurgan located ca. 1.2 km SE of Panskoe I. It is likely that the material found derives from these kurgans				
<i>Bibliography</i> Randsborg 1994, 179, fig. 4.9				

Severnoe 1		<i>Coordinates</i> 502749/5058057		
	<i>Interpretation</i> Settlement	<i>Estimated size</i> ?	<i>Date range</i> Late BA; EM	
<i>Topography</i> Situating on gentle slope by shallow ravine				
<i>Investigations</i> V.A. Kolotuchin, year unknown				
<i>Site interpretation</i> Settlement				
<i>Bibliography</i> Kolotuchin 2003, 68 fig. 1.29				

Severnoe 2		<i>Coordinates</i> 502748/5058316		
	<i>Interpretation</i> Settlement?	<i>Estimated size</i> ?	<i>Date range</i> LC-EH	
<i>Topography</i> Located on gentle slope by shallow ravine				
<i>Investigations</i> Razvedki S.G. Koltuchov, year unknown; visited during the DSP Extensive survey 17.05.07; GS 3006				
<i>Site interpretation</i> Settlement?				
<i>Bibliography</i> Lancov 2004, fig. 1.79				

Skalistoe 1		<i>Coordinates</i> 493731/5054249		
	<i>Interpretation</i> Settlement?	<i>Estimated size</i> ?	<i>Date range</i> LC-EH	
<i>Topography</i> Situating on low E slope of small ravine; built over with modern fishing station				
<i>Investigations</i> Partly excavated by V.A. Latsheva, year unknown				
<i>Site interpretation</i> Settlement?				
<i>Bibliography</i> —				

Skalistoe 2/ DSP08-F03-02	Core units 6226, 6244-45, 6247	Sample density 20%, 23%	Coordinates (centre) 493952/5053607	Figs. 4.98-101, 4.105-108
	Adjacent units 6227, 6243, 6246, 6248, 6265-67	Sample density 20%		
	Interpretation Settlement	Estimated size 3,000 m², halo of ca. 12,500 m²	Date range BA, LC-EH	
Phase 1	Core units 6244	Sample density 20%	Coordinates (centre) 493983/5053614	
	Interpretation Settlement	Estimated size 110 x 130 m	Date range BA	
Phase 2	Core units 6245, 6247	Sample density 20%	Coordinates (centre) 494052/5053588	
	Interpretation Settlement	Estimated size ?	Date range LC-EH	
<i>Topography</i> DSP08-F03-02 is located in the SW corner of the surveyed field. The site is located shallow depression next to a ravine 650 m from the current coastline. Outside the field, on the other side of the ravine, an elevated plateau was visible which may be an extension of the site				
<i>Investigations</i> A small scale excavation by V.A. Kolotuchin (1973; 1987) revealed house foundations of field stones Intensive survey 50 x 60 m units; TS 6243/02-06; 6246/02; 6247/02. A high-density scatter with two components: a strong Bronze Age presence, especially in Unit 6244, and a larger Hellenistic part. The Hellenistic finds include amphorai, table- and utility wares				
Geomagnetic survey T. Smekalova Dimensions 3,500 m²		Description of measuring conditions Good		
Interpretation of features Six or seven weak positive anomalies, possibly pit houses				
Augering Four augerings were conducted in a cross section over the site. The sediment seems very thin, except in auger 31 which has a 1,16 m layer of loam sediment. This core was taken at the eastern end of the site. No clear archaeological culture layer was detected.				
Auger S28: 493983/5053527				
0-0.20 m	Loam, some grit, 10YR 3/2			
0.20-0.30 m	Loam, some small limestone inclusions, 10YR 3/2			
0.30 m	End of augering: soil too hard			
Auger S29: 494016/5053558				
0-0.20 m	Loam, topsoil, 10YR 3/2			
0.20-0.40 m	Loam, 10YR 3/2			
0.70 m	End of augering, bedrock			
Auger S30: 494034/5053574				
0-0.10 m	Loam, 10YR 3/2			
0.10-0.30 m	Loam, some limestone inclusions, 10YR4/2			

0.30 m	End of augering: bedrock
Auger S31: 494054 /5053594	
0-0.49 m	Loam, 10YR 3/2, no effervescence
0.49-1.16 m	Loam, 10YR 5/4, effervescences
1.16 m	End of augering: bedrock
<i>Site interpretation</i> The location of the site and the combination of multiple functions suggests for both periods that this was a settlement	
<i>Bibliography</i> Kolotuchin 2003, 39, 68 fig. 1.25 ¹⁰¹	

Skalistoe 3 and 4		<i>Coordinates</i>		
	<i>Interpretation</i> Settlement?	<i>Estimated size</i> ?	<i>Date range</i> LC-EH	
<i>Topography</i> The precise location is unknown; it may duplicate some of the following sites				
<i>Investigations</i> Found by the North-Crimean Expedition in 1987				
<i>Site interpretation</i> Settlement?				
<i>Bibliography</i> Lancov 2004, fig. 1.75-76; p. 62; Lantsov & Uzhentzev 2007, 681				

¹⁰³ The site is mentioned as Skalistoe 1 in the figure, but as Skalistoe 2 in the text. Since the Hellenistic site under the fishing station was found first that one should be Skalistoe 1 and the Bronze Age site Skalistoe 2.

Skalistoe 5		<i>Coordinates</i> 493899/5054423		<i>Figs.</i> 4.12-20
	<i>Interpretation</i> Fortified farmhouse; ash hill	<i>Estimated size</i> Ca. 1.5 ha	<i>Date range</i> LC-EH; LH?	
<i>Topography</i> Located on flat high cliff immediately to the sea shore; partly eroded away (wall in profile)				
<i>Investigations</i> Partially excavated in 1973 by Z.Ch. Popandopulo; revisited by DSP Extensive survey 17.05.07; GS 3026-3027/2007 FL 10; sample of mudbrick from tower. Excavation: 2007 FL1-9.				
Geomagnetic survey T. Smekalova <i>Dimensions</i> ca. 90 x 40 m		<i>Description of measuring conditions</i> Good; NW part of the site eroded into the sea; at the tower, trenches left by stone looters		
Excavation Excavated and interpreted by S. Lancov, V. Stolba				
	<i>Coordinates</i> 493886/5054489	<i>Trench Dimensions</i> 2 x 2 m	<i>Features</i> Exposed features include the remains of a rectangular tower measuring ca. 9 x 9 m and ash hill as well as E corner of a surrounding wall observable in the tracks of a dirt road <i>Trial trench</i> Section of W wall of the building overlaid by ash hill	
Description of stratigraphy by layer: Trial trench 1) 0-0.15 m topsoil 2) 0.15-0.30 m ashy layer 3) 0.30-0.40/0.45 m ashy layer with stone debris 4) 0.40/0.45 m top level of mudbrick debris 5) 0.45-0.60 m amorphous mudbrick debris 6) 0.60/0.75 m top level of buried topsoil 7) 0.75-1 m buried topsoil 8) 1 m -loam				
<i>Finds</i> Pottery, shells, animal bones, tile		<i>Date range</i> Late 4th-early 3rd c. BC	<i>Interpretation</i> Among the transport amphorai and tableware the Chersonesean import is dominant. Pottery assamblage is characteristic of Chersonesean rural sites	
<i>Site interpretation</i> Fortified farmhouse; ash hill				

Skalistoe 6		<i>Coordinates</i> 4948812/5054794		
	<i>Interpretation</i> Farmhouse?; settlement?	<i>Estimated size</i> ca. 100 x 50 m	<i>Date range</i> LC-EH	
<i>Topography</i> Situating on small tongue between two small ravines close to sea				
<i>Investigations</i> Found during the DSP Extensive survey 17.05.07; GS 3023				
<i>Site interpretation</i> Farmhouse?; settlement?				

Skalistoe 7		<i>Coordinates</i> 493890/5053886		
	<i>Interpretation</i> Farmhouse?	<i>Estimated size</i> 50 x 50 m	<i>Date range</i> LC-EH	
<i>Topography</i> Located slightly inland at E side of small ravine on gentle slope facing the sea immediately S of Skalistoe <i>chutor</i> , which is depicted on the half-verst map				
<i>Investigations</i> Found during the DSP Extensive survey 12.05.07; GS 3028				
<i>Site interpretation</i> Farmhouse?				

Skalistoe 8		<i>Coordinates</i> 493454/5054090		<i>Fig.</i> 4.11
	<i>Interpretation</i> Farmhouse?	<i>Estimated size</i> ca. 100 x 50 m	<i>Date range</i> LC-EH	
<i>Topography</i> Situating on cliff facing the sea				
<i>Investigations</i> Found in DSP Extensive survey 17.05.07; GS 3029				
<i>Site interpretation</i> Farmhouse?				

Skalistoe 9		<i>Coordinates</i> 494744/50548723		
	<i>Interpretation</i> Settlement? farmhouse?	<i>Estimated size</i> ca. 200 x 100 m	<i>Date range</i> LC-EH	
<i>Topography</i> Situated on high cliff immediately along the present sea shore, very widely extended almost between two ravines				
<i>Investigations</i> Found during the DSP Extensive survey 17.05.07; GS 3024				
<i>Site interpretation</i> Settlement or farmhouse?				

Skalistoe 10		<i>Coordinates</i> 494334/5054685		
	<i>Interpretation</i> Farmhouse?	<i>Estimated size</i> ca. 50 x 50 m	<i>Date range</i> LC-EH; LH	
<i>Topography</i> Located on cliff facing the sea				
<i>Investigations</i> Found during the DSP Extensive survey 17.05.07; GS 3025				
<i>Site interpretation</i> Farmhouse?				

Vetrenaja Bay		<i>Coordinates</i> 478418/5041947		<i>Figs.</i> 4.29-30
	<i>Interpretation</i> Farmhouse	<i>Estimated size</i> ?	<i>Date range</i> LC-EH	
<i>Topography</i> Located slightly over 1.5 km NE of the Černomorskoe Settlement. It is positioned on a high cliff; today most of it is eroded away. Originally it was located in the SE corner of the plot as outlined by the cadastre				
<i>Investigations</i> Partially excavated by the Tarchankut Expedition headed by A.N. Ščeglov between 1963 and 1966. The building consists of a series of rectangular rooms around a courtyard. 40 x 25-30 m of the building's extension is preserved. In one room measuring 24.6 m ² 10 Sinopean <i>pithoi</i> were sitting side by side. In the building was also found tableware, e.g. black-gloss pottery (fish plate, kantharos: Ščeglov 1967, fig. 15). Interesting for the understanding of the relation to Chersonesos is the find of a terracotta representation of Herakles' club (Ščeglov 1967, fig. 16)				
<i>Site interpretation</i> Farmhouse				
<i>Bibliography</i> Ščeglov 1967; 1978				

Vladimirovka		<i>Coordinates</i> ?		
	<i>Interpretation</i> Settlement?	<i>Estimated size</i> ?	<i>Date range</i> Late BA	
<i>Topography</i> Located inland; the more precise location is unknown				
<i>Investigations</i> Excavated by V.A. Kolotuchin; year unknown; the site could not be verified in the DSP survey				
<i>Site interpretation</i> Settlement?				
<i>Bibliography</i> Kolotuchin 2003, 68 fig. 1.28				

Vodopojnoe 1 (see chapter 4.3.3)		<i>Coordinates</i> 493242/5047343		<i>Fig.</i> 4.38
	<i>Interpretation</i> Settlement	<i>Estimated size</i> ?	<i>Date range</i> Late BA	
<i>Topography</i> Located on W side of small ravine where it meets the Džarylgač Lake				
<i>Investigations</i> Found by V.A. Kolotuchin; year unknown Systematic Extensive survey by DPS in 2007				
<i>Site interpretation</i> Settlement				
<i>Bibliography</i> Kolotuchin 2003, 40, 68 fig. 1.22				

Vodopojnoe 2		<i>Coordinates</i> 497552/5049033		
	<i>Interpretation</i> Settlement, kurgan and farmhouse?	<i>Estimated size</i> 50 x 50 m	<i>Date range</i> Late BA; LC-EH?; EM	
<i>Topography</i> Situated in valley bottom on low elevation connected with soil bank to Bronze Age(?) kurgan				
<i>Investigations</i> Razvedki S.G. Koltuchov; year unknown; visited during the DSP Extensive survey 27.05.07				
<i>Site interpretation</i> Multi-period settlement, kurgan and farmhouse?				
<i>Bibliography</i> Kolotuchin 2003, 68 fig. 1.23				

Vodopojnoe 3A and B		<i>Coordinates</i> 4996923/5049333 (3A); 499872/5049211 (3B)		
	<i>Interpretation</i> Settlement	<i>Estimated size</i> ca. 3 ha	<i>Date range</i> Late BA; LC-EH; EM	
<i>Topography</i> Extended area at W slope of low ravine 500-1000 m up a side branch of the main ravine				
<i>Investigations</i> Razvedki S.G. Koltuchov; year unknown; visited during the DSP Extensive survey 27.05.07; GS 3065				
<i>Site interpretation</i> Multi-period settlement				
<i>Bibliography</i> —				

Vodopojnoe 4		<i>Coordinates</i> 500244/5048513		
	<i>Interpretation</i> Settlement?	<i>Estimated size</i> ?	<i>Date range</i> Late BA	
<i>Topography</i> Located at side of ravine at confluence of two small streams				
<i>Investigations</i> Razvedki S.G. Koltuchov; year unknown. The site could not be verified in the DSP Extensive survey				
<i>Site interpretation</i> Settlement?				
<i>Bibliography</i> Kolotuchin 2003, 68 fig. 1.24				

Vodopojnoe 5		<i>Coordinates</i> 498081/5046452		
	<i>Interpretation</i> Settlement?	<i>Estimated size</i> ?	<i>Date range</i> Late BA	
<i>Topography</i> Situated at side of ravine at confluence of two small streams				
<i>Investigations</i> Razvedki S.G. Koltuchov; year unknown. The site could not be verified in the DSP Extensive survey				
<i>Site interpretation</i> Settlement?				
<i>Bibliography</i> —				

