

Phase I - Late Chalcolithic period

Simone Nannucci

▶ To cite this version:

Simone Nannucci. Phase I - Late Chalcolithic period. Laneri, Nicola. Hirbemerdon Tepe Archaeological Project 2003-2013 Final Report: Chronology and Material Culture, BraDypUS, pp.17-25, 2016, 9788898392322. hal-01315632

HAL Id: hal-01315632

https://hal.science/hal-01315632

Submitted on 19 May 2016

HAL is a multi-disciplinary open access archive for the deposit and dissemination of scientific research documents, whether they are published or not. The documents may come from teaching and research institutions in France or abroad, or from public or private research centers. L'archive ouverte pluridisciplinaire **HAL**, est destinée au dépôt et à la diffusion de documents scientifiques de niveau recherche, publiés ou non, émanant des établissements d'enseignement et de recherche français ou étrangers, des laboratoires publics ou privés.

Hirbemerdon Tepe Archaeological Project 2003-2013 Final Report: Chronology and Material Culture

by Nicola Laneri

With contributions by

Mark Schwartz, Jason Ur, Stefano Valentini, Marta Aquilano, Lorenzo Biazzo, Rodolfo Brancato, Lorenzo Crescioli, Margherita Dallai, Guido Guarducci Martina Massimino and Simone Nannucci













Graphic design and layout by

BraDypUS s.a. (Julian Bogdani ed Erika Vecchietti) e Ivano Devoti

Cover by

Vincenzo De Luce

Bologna (BraDypUS) 2016 ISBN: 9788898392322

ISBN-A: 10.978.8898392/322

This book is freely available online at

http://books.bradypus.net/hirbemerdon_report

Hirbemerdon Tepe Archaeological Project 2003-2013 Final Report: Chronology and material culture by Nicola Laneri is licensed under the **Creative Commons Attribution-NonCommercial-NoDerivatives 4.0 International** license.

It means that you are free to: copy, disseminate, communicate and expose in public this work, at the condition that its content is not altered or changed, that the authorial propriety of the editors and authors is granted, and not for commercial use. The Publisher will always grant open access to the contents, without any limitation to dissemination.

BraDypUS s.a.

via A. Fioravanti, 72, 40129 Bologna www.bradypus.net; info@bradypus.net C.F. e P.IVA 02864631201

Table of contents

7
9
9
11
11
12
13
13
14
17
18
18
18
19
20
27
27
28
28
30
30
31
33

Architecture	33
Pottery	35
Animal figurines	36
Hirbemerdon Tepe and its regional context during the third millennium BCE	38
Chapter 4. Phase IIIB: The Middle Bronze Age	
by Nicola Laneri, Stefano Valentini, Marta Aquilano, Margherita Dallai and Martina Massimino	41
Architecture	41
Pottery	48
The ceremonial objects	64
Animal figurines and wheels of chariot models	68
The metal production	72
Other small finds	79
Chapter 5. Phase IIIC: The Late Bronze Age	
by Lorenzo Crescioli	81
Architecture	82
Pottery	83
Hirbemerdon Tepe ceramic repertoire	83
The Late Bronze Age in the Upper Tigris Valley	88
Small finds	91
Locating Hirbemerdon Tepe in a Late Bronze Age landscape	91
Chapter 6. Phase IVA and IVB: The Early and Middle Iron Age	2.5
by Guido Guarducci	95
Archaeological contexts and architecture	95
Pottery	98
Chapter 7. Phase V: The Late Iron Age by Rodolfo Brancato	103
Architecture	103
Pottery	104
Small finds	105
Sindii iinds	103
Chapter 8. Phase VI and VII: The Medieval and Ottoman periods by Rodolfo Brancato	107
Phase VI: The Medieval period	107
Architecture	107
Pottery	108
Small finds	108

Phase VII: The Ottoman Period	109
Architecture	109
Pottery	110
Small finds	110
Chapter 9. Andirons, lamps and portable hearths	110
by Marta Aquilano	113
Andirons	113
Lamps	115
Portable hearths	116
Chapter 10. Other small finds by Margherita Dallai	117
Objects related to textile activities	117
Discs	122
Bone needles	124
Chapter 11. Conclusions by Nicola Laneri	127
Bibliographic References	129
General Bibliographic References	133
CATALOGUE	149
Figures	151
Architecture	159
Phases I, IIa, IIb, IIIa	159
Phase IIIb	167
Phase IIIc	195
Phases IVa, IVb	199
Phase V	207
Phases VI, VII	211
Sections	217
Matrixes	221
I. Pottery catalogue	231
Notes to the pottery catalogue	233
Phase I	235
Phase IIa	247
Phase IIb	255

Phase IIIa	265
Phase IIIb	281
Phase IIIc	379
Phase IVa	405
Phase IVb	425
Phase V	435
Phase VI	451
Phase VII	457
II. Objects catalogue	459
Abbreviations used in the description of objects	461
Phase I	463
Phase IIa	465
Phase IIb	471
Phase IIIa	477
Phase IIIb	481
Phase IIIc	553
Phase IVa	555
Phase IVb	557
Phase V	559
Phase VI	565
Phase VII	567
III. Ceramic typologies	571
Phase I	573
Phase IIa	575
Phase IIb	577
Phase IIIa	579
Phase IIIb	581
Phase IIIc	583
Phase IVa	585
Phase IVb	587
Phase V	589
Phase VI	591
Phase VII	593

Chapter 2. Phase I: Late Chalcolithic period

Simone Nannucci

Until recently, the chronology of the fourth millennium BCE in the northern part of the 'Greater Mesopotamia' was highly problematic and debated, partly due to mistakes and misunderstandings about the stratigraphic sequences of the main sites of the region.

The academic literature showed a wide number of chronological schemes and labels, based essentially on the traditional synchronization of strata XIA-VIIIa of Gawra (with many internal differentiations) with the sequence 'Early', 'Middle' and 'Late Uruk' and 'Jemdet Nasr' of southern Mesopotamia (e.g., Porada 1965; Buchanan 1967; Forest 1983; Rothman 1988; von Widecke 1990). During the last decade of the twentieth century, many researchers have attempted a synchronization of the different regional chronologies on the basis of new data from modern stratigraphic excavations carried out in Syria and Turkey and the reconsideration of fundamental stratigraphic sequences like those of Gawra and Nineveh¹ (e.g., Gut 1995; Trufelli 1997; Rova 1999-2000; Rothman 1988; 2002a).

Three conferences entirely or partly dedicated to this topic have been organized (Marro and Hauptmann 2000; Rothman 2001; Postgate 2002). In particular, the conference organized by Rothman (2001) at the School of American Research (*SAR*) in Santa Fe proposed a new periodization valid for the entire 'Greater Mesopotamia', widely accepted by the majority of scholars but often with some variations. On this occasion, many different definitions suitable for a basic chronologic terminology² have been taken into account, and finally the label 'Late Chalcolithic' (LC) has been chosen for the entire period, with an internal division in five consecutive phases, from LC 1 (i.e., Post-'Ubaid) to LC 5 (i.e., Late Uruk).³ This periodization has been made on the basis of the strong data obtained by the radiocarbon dating of many sites (Wright and Rupley 2001), in turn specified by the relative regional chronologies based on the synchronization of each sequence in reason of their material culture, in particular pottery and glyptics. Here we are going to use the *SAR* chronology and its periodization, combined with some elements from the chronology by Gut⁴ (Rothman 2002b:

¹ About the Syro-Iraqi Jazirah, the reconsideration of the data from Nineveh's Deep Sounding and its connection to the Gawra sequence allowed a remarkable improvement of the regional chronology. Gut proposed a division in two main periods, both divided into different phases: an early "Gawra" period (A and B) and a late "Uruk" period (A to D) (Gut 1995; 2002). The "Gawra" period should represent a pure "indigenous" period preceding the contact of northern sites with the "Uruk" southern Mesopotamia, while the following period was characterized by different scales of interaction between the northern "indigenous" and the southern "exogenous" elements.

² Some different names were used to describe the phases of this period, with the result that the problem was still not clarified. "Uruk" could be the proper term when it was used to point the cultural phenomenon out, but on the other hand it could be misleading when used as a chronological marker. Also the term "Gawra" was clearly inadequate for the periodization in the northern regions of the "Greater Mesopotamia".

³ Gut (2002: 22) does not agree about this sequence, because the regional and the sub-regional variety is not taken into account; moreover, the chronological meaning of the presence or the absence of certain phases in each site is not clear.

⁴ In any case the lower limit of the SAR periodization is not the same as Gut's "Uruk" period, because the "Uruk D" phase (End Uruk) comprises the post-LC5 developments, dated between the last quarter of the fourth and the beginning of the third millennia BCE (Gut 2002: 22).

51; Brustolon and Rova 2007: 6). There is no unanimous agreement between the scholars about the absolute dating: within the proposed dating it is possible to detect some fluctuations consisting of one century or more (see: Schwartz 2001; Wright and Rupley 2001; Rothman 2002a; 2002b; Matthews 2003a; Brustolon and Rova 2007; McMahon and Oates 2007) (Tab. 2).

					Absolut	e dating		
Periods SAR	Periods Gut	Southern Mesopotamia	Wright and Rupley 2001	Schwartz 2001	Rothman 2002a; 2002b	Matthews 2003a	McMahon and Oates 2007	Brustolon and Rova 2007
LC 1	End-'Obed	Final 'Ubaid	4300-4150		4300-4100	4200-4000		4200-4000
LC 2	Gawra A-B	Early Uruk	4150-3800	4200-3900	4100-3800	4000-3800	4200-3900	4000-3700
LC 3	Uruk A (?)	Middle Uruk (early)	3800-3500	3900-3600		3800-3600	3900-3400	3700-3500
LC 4	Uruk B	Middle Uruk (late)	3500-3350	3600-3400		3600-3400		3500-3300
LC 5	Uruk C	Late Uruk	3350-3100		3300-3000	3400-3000		3300-3100

Table 2 - Chronology and periodization of the Late Chalcolithic period.

Stratigraphy and Architecture

The earliest phase of occupation at the site is dated to LC 3, located in Area B in the Outer Town. Unfortunately, the level is poorly preserved and has been disturbed by the course of the river and building activity, and is the reason why a large part of the evidence is absent. The excavations have shown the eroded remains of rows of bricks, most probably part of a wall or of a bench (B0049), and a shallow pit filled with a thick layer of ashes (B0021, B0022, B0023)(Fig. 6.1). The large amount of cooking pottery associated with this evidence makes the interpretation of an area for cooking within a domestic context possible. Even though tools associated with craft production (i.e., four flint blades and a grinding stone (Pl. CXX-VI: 1-2) were found in these layers, unfortunately the limited surface of the excavated area and its poor preservation does not provide further data for the reconstruction of this level (Laneri *et al.* 2006b: 158; 2008c: 178-179; 2009: 230).

Pottery Assemblage

Methodological criteria

This discussion takes into account part of the pottery recovered during the excavations of Phase I in Area B. A study of the ceramic material has been carried out during the 2005 and 2006 campaigns. It essentially consists of sherds presenting diagnostic features (i.e., complete forms, complete profiles and rim potsherds). However, since the largest part of the analyzed repertoire consists of sherds, the comparison with materials from other sites is difficult, especially when they consist of assemblages of complete vessels. As noted by Nissen (1970: 144), when the repertoire is mainly composed by sherds, the typology can be defined on the

⁵ The ceramic material ascribed to this level is present also in later deposits.

basis of few diagnostic features (i.e., rim form, decoration, etc.); on the other hand, complete vessels include a wide set of characteristics (i.e., rim form, complete profile section, base form, decorations, and other secondary elements such as handles, spouts, lugs etc.). Therefore, when a typology is thoroughly defined on the basis of sherds, there is a danger in distinguishing types on the basis of minimal variations in the rim shape or the neck angle; these variations usually do not correspond to the potter's intention (McAdam and Mynors 1988: 44). Therefore in this repertoire it is also possible that types or different variants can be interpreted as variable examples of the same vessel shape.

Main classes and diagnostic forms from Phases LC 3 and LC 4

The main diagnostic class characterizing these two phases is the so-called Chaff-Faced Ware (CFW). This pottery production belongs to a wide horizon extending from the upper courses of the Tigris and Euphrates to the upper Khabur valley and the Jazirah in northern Iraq; CFW is characterized by buff greyish/brown coarse fabric whose section is often blackened due to incomplete oxidation. The most common diagnostic forms belonging to this class are the oblique-rimmed bowls - with a thickening more or less marked inside or inside and outside, better known as Hammerhead Bowls - and the large deep carinated bowls, the so-called Casseroles. The study of ceramics found in stratigraphical contexts recently excavated has made it possible to distinguish between two variants for both classes, corresponding roughly to two subsequent phases during LC 3 and LC 4 (Pollock and Coursey 1995: 108-111; Pearce 2000: 116-118).

Regarding the Hammerhead Bowls, two variants have been identified: an 'early' form with a simple rim (i.e., the rim is more rounded and less defined compared to the later variant), characterizing LC 3 and probably the first part of the following phase,⁶ and a 'mature' variant with an enhanced rim (i.e., the rim presents a marked thickening both inside and outside) typical of LC 4.⁷

The same observations are possible for the Casseroles: an 'early' variant has been identified on the basis of the simple or slightly thickened rim, characteristic of the LC 3 and the beginning of LC 4,8 and a variant with an enhanced rim (i.e., the rim is significantly thickened) typical of LC 4.9

Other peculiar vessel forms of this assemblage are bowls with simple inverted rim and an almost rounded carination, ¹⁰ generally in relatively fine ware; jars with internally grooved neck, present during the LC 3 (e.g., Hacinebi A) and then widespread in the following phase; ¹¹ and jars with short neck marked with a sharp angle on the interior ¹² that is also typical in LC 4 but are already recorded in LC 3 and in earlier phases. ¹³

⁶ Attested, for example, at Brak HS1 6 (Felli 2003: fig. 4.17: 12), Leilan V (Schwartz 1988a: fig. 57: 2) and Hacinebi A (Pearce 2000: fig. 6: a-b; 7: e).

⁷ Examples are found at Brak TW 14 (Oates and Oates 1993: fig. 52: 2), Leilan IV (Schwartz 1988a: fig. 52: 7) and Hacinebi B (Pearce 2000: fig. 9: a).

⁸ As suggested by its presence in the repertoire of Brak HS1 6 (Felli 2003: fig. 4.19: 7), Leilan V (Schwartz 1988a: fig. 59: 5) and Hacinebi A (Pearce 2000: fig. 3: d).

⁹ As demonstrated by the examples at Brak TW 14 (Oates and Oates 1993: fig. 54: 69), Leilan IV (Schwartz 1988a: fig. 54: 2) and Hacinebi B (Pearce 2000: fig. 10: c).

¹⁰ Examples of this type are common in the central part of the fourth millennium BCE (LC 3 e LC 4). They appear at Hacinebi A (Pearce 2000: 117; fig. 6: d-e) and Leilan V e IV (Schwartz 1988a: fig. 53: 8, 10, 12; 60: 7). Similar types are also present during the late "Ubaid" period (e.g., Hammam et-Turkman IV - Akkermans 1988b: fig. 7: 90-93) and allow us to consider that their appearance can be dated to the first part of the fourth millennium BCE (i.e., LC 1 and LC 2).

¹¹ This type is recorded both among coarse CFW and fine ware. It is present at Brak TW 16 (Oates and Oates 1993: fig. 51: 19; 53: 57), Leilan V (Schwartz 1988a: fig. 60: 5) and Hacinebi A (Pearce 2000: fig. 4: e, f, g), as well as among the material record in the Iraqi Jazirah survey (Wilkinson and Tucker 1995: fig. 66: 10-11) and Hamoukar survey (Ur 2010: fig. B13: 7-9).

¹² The inner part of the neck can be straight or concave, whereas the rim is usually thickened, although a wide number of morphological versions are recorded.

¹³ Documented at Brak HS1 (Felli 2003: fig. 4.20: 1-2, 15, fig. 4.23: 2), Leilan V-IV (Schwartz 1988a: fig. 54: 7, 8; fig. 60: 1-2), Hammam VB (Akkermans 1988b: fig. 10: 156-157) and Habinebi B2 (Pearce 2000: fig. 15: d-e).

Another diagnostic class datable to the LC 3 - probably in its early stage - is a middle-coarse, mainly vegetal-tempered ware with a homogeneously grey and slightly burnished surface, called "Uruk grey" ware14. This class defines a pottery horizon recognized first by Gut (1995: 250-251; 292) as "Uruk A" phase, which marks the transition between the LC 2 and the period of larger distribution of the typical CFW assemblage during LC 3 and LC 4.15 Typical forms are the bowl with a slightly thickened and rounded rim16 and the hole-mouth jar with a slightly raised rim.¹⁷ The list of diagnostic types proposed by Gut (1995: 250-251; 261-262; 2002: 20) for her "Uruk A" on the basis of the evidence from the central part of the Ninevite 3 sequence is certainly incomplete, because for this phase only a small amount of ceramic was recovered and recorded by the excavators, with the exception of "Uruk grey" ware. Indeed "Uruk A" assemblage should be integrated with many LC 2 forms that were still in use (e.g., WFPs, bowls with internally bevelled rim¹⁸, jars with internally hollowed rim and double-mouthed jars) and the other new CFW forms not taken into account by Gut. As already mentioned, a CFW assemblage very similar to that of the second part of the LC 3 is in use during the LC 4,19 although it compares with an increasing number of southern "Middle Uruk" types (e.g., Leilan IV, Hacinebi late B1 and B2). Some forms do not show significant variations compared to the previous ones (i.e., jars with internally grooved neck and jars with short neck marked with a sharp angle on the interior), although they look more typical for this phase, while others appear with their "mature" variants (i.e., Hammerhead Bowls and Casseroles with an enhanced rims)²⁰.

Phase I pottery assemblage at Hirbemerdon Tepe

The pottery assemblage during Phase I is characterized by the prominent presence of CFW (Pl. CLXXX-VII). The largest part of diagnostic fragments is composed of medium-coarse or coarse ware rich in vegetal inclusions as well as mineral inclusions (i.e., grit, lime and mica) in different quantity and quality. The majority of coarse ware vessels are handmade and present a black cross-section. The surfaces often appear summarily smoothed and, in some cases, traces of scraping, probably made with flint or other sharp tools, are present. Vessels made with medium quality fabrics are often wheel-made or wheel finished and can present burnished or smoothed surfaces. Since the investigated surface and the amount of recovered ceramics is not so wide, it is not surprising that the presence of fine ware classes is low.

Among the recorded open forms are simple rim bowls with a curved profile (Pl. I: 2) and slightly carinated simple rim bowls (Pl. I: 3). These examples are made with medium quality fabrics with vegetal inclusions, although a few mineral and stone inclusions are also present. These types have similarities

¹⁴ However, as shown by Rova (1999-2000: 185), the diagnostic use of "Uruk grey" ware can be problematic, because its definition is still not clear and its diffusion is apparently limited and heterogeneous.

¹⁵ The chronological limit between the "Uruk grey" ware horizon and the CFW horizon is still not clear, however it should be located during the LC 3 (Brustolon and Rova 2007: 22).

¹⁶ Recorded at Nineveh MM -45/-39 (Gut 1995: Tafel. 57-58: 848-857), Brak HS6 1 (Matthews 2003b: fig. 3.16: 4), Hacinebi A (Pearce 2000: fig. 5: a-e) and Hammam et-Turkman VB (Akkermans 1988b: fig. 9: 146).

¹⁷ The diagnostic use of this form can be problematic because of its presence during the LC 2 and during LC 3 only in "Uruk grey" ware (Gut 1995: 229), while at Gawra it is typical of XII-XI stratum and then it subsequently disappears (Tobler 1950: 154). It is recorded at Nineveh, Middle Ninevite 3 (Gut 2002: fig. 15: 9), Grai Resh IV-II (Lloyd 1940: fig. 7: 9), al-Hawa (Ball *et al.* 1989: fig. 28: 38-40), Hammam et-Turkman VB (Akkermans 1988a: pl. 107: 101; 108: 102-103) and Kurban VI (Algaze 1986: pl. 3: Q).

¹⁸ See the examples of Hammam et-Turkman VB (Akkermans 1988b: fig. 9: 140) and Hacinebi A (Pearce 2000: fig. 2: g) whose rims look more rounded than in the previously.

¹⁹ Gut (1995: 98; 251, note 681) ascribes also the casseroles (Gut 1995: Tafel 61: 881) and carinated bowls with a vertical rim to this phase.

²⁰ Hammerhead bowls with a simple rim are also documented for the first part of the LC 4. For the "mature" hammerhead bowls see: Brak TW 14 (Oates and Oates 1993: fig. 52: 2), Leilan IV (Schwartz 1988a: fig. 52: 7), Hacinebi B (Pearce 2000: fig. 9: a). For "mature" casseroles see: Brak TW 14 (Oates and Oates 1993: fig. 54: 69), Leilan IV (Schwartz 1988a: fig. 54: 2), Hacinebi B (Pearce 2000: fig. 10: c).

at Hacinebi A (Pearce 2000: fig. 5: g), Hammam et-Turkman VB (Akkermans 1988a: pl. 104: 79) and Leilan IV (Schwartz 1988a: fig. 53: 3, 7). An additional similarity for the slightly carinated simple rim bowls comes from Pit 203 in Area C01 at Kurban VI (Algaze 1990: pl. 17: g). Bowls with internally bevelled rim (Pl. II: 8) can be compared with findings from Hacinebi A (Pearce 2000: fig. 2: f-i), Giricano (Schachner 2002b: fig. 44: h), Nineveh "Uruk (A)" (Gut 1995: Tafel 54: 810), Grai Resh IIA (Kepinski 2011: pl. 1: 9), Leilan V (Schwartz 1988a: 58: 5-7), Brak CH B 9, 11 & TW (Fielden 1981: fig. 1: 33; Oates J. 1985: fig. 1: 5), Chagar Bazar (McMahon et al. 2001: fig. 3: i-k) and Hammam et-Turkman VB (Akkermans 1988a: pl. 104: 76-78). These bowls are typical in the LC 2 assemblage, but a large proportion of the examples are characterized by painted horizontal bands around the rim and blobs of paint. Some examples from Hirbemerdon are totally without decoration and realized with vegetal tempered fabrics in different qualities. Another type present at Hirbemerdon is represented by simple flat rim bowls that can be slightly inwardly bevelled (Pl. I: 5), which in the assemblage at Hacinebi A are assimilated to the Hammerhead Bowls type in their "early" variant (Pearce 2000: 117). This type is well-attested, sometimes with slightly different inclinations, at Hacinebi A (Pearce 2000: fig. 7: f-g), Karatut (Schwartz 1988b: fig. 5: 1), Kurban VI (Algaze 1990: pl. 30: D, F), Grai Resh IIA (Kepinski 2011: pl. 1: 4-6), Leilan V (Schwartz 1988a: 58: 1), Brak CH B & HS1 7-5 (Fielden 1981: fig. 1: 34; Felli 2003: fig. 4.17.3; 4.22.2), Chagar Bazar (McMahon et al. 2001: fig. 5: e; 3: i, m) and in 'Amuq F (Braidwood and Braidwood 1960: fig. 174: 14). Another set of bowls with inside and/or outside slightly thickened and flattened rims similar to the last type and made with medium-coarse ware, can be considered as part of the wide category of the Hammerhead Bowls. These bowls are present in three groups: the shallow medium-sized Hammerhead Bowls with rounded flat rim (Pl. I: 4), the Hammerhead Bowls with simple flat to slightly rounded flat rim (Pl. I: 6) and the Hammerhead Bowls with in-turned thickened bevelled rim (Pl. I: 7). Bowls of the first group are recorded at Hacinebi A (Pearce 2000: fig. 5: d), Kurban VI A-B (Algaze 1990: pl. 30: G), Nineveh -38 e -36 (Gut 1995: Tafel 57: 848, 850; 122: 1490 - Uruk Grau), Leilan V-IV (Schwartz 1988a: fig. 52: 13; fig. 58: 2), Brak HS1 4-3 (Felli 2003: fig. 4.24.20) and Chagar Bazar (Mc-Mahon et al. 2001: fig. 5: e). Bowls of the second group are present at Hacinebi A (Pearce 2000: fig. 7: g, i), Karatut (Schwartz 1988b: fig. 5: 2), Kurban VI (Algaze 1990: pl. 22: H), Brak HS1 7-6/1 (Felli 2003: fig. 4.17.14; 4.21.16) and in 'Amuq F (Braidwood and Braidwood 1960: fig. 174: 14). The last group of bowls has been recorded at Hacinebi A (Pearce 2000: fig. 6: c; 7: i), Karatut (Schwartz 1988b: 5: 8), Kurban VI (Algaze 1990: pl. 17: J; 21: B), Nineveh (-63 Uruk) (Gut 1995: Tafel 119: S458), Leilan IV (Schwartz 1988a: 52: 11) and Brak HS1 5 (Felli 2003: fig. 4.22.8).

Among the bowls two small types can also be distinguished and are characterized by a medium-fine ware with a well mashed vegetal inclusions, tiny particles of lime and mica: a small shallow simple rim bowl (Pl. II: 11) and a small sinuous-sided bowl (Pl. II: 10). A comparison for this last type comes from Kurban VI (Algaze 1990: pl. 17: B). Regarding the open forms, simple rim dishes or simple rim shallow bowls are also recorded, made with different kinds of fabrics (Pl. I: 1; pl. II: 9), comparable with those from Hacinebi A (Pearce 2000: fig. 2: b - c) and Kurban VI (Algaze 1990: pl. 17: c). Beakers are not so common. The only type identified, documented by two complete samples, is characterized by an S profile with a simple rim and a flat base (Pl. II: 12-13). This type can be accurately compared with a beaker from Giricano (Schachner 2002b: fig. 45: j).

Among the closed forms, jars with an everted short neck and a simple rim are well attested. Unfortunately, samples with a complete profile have not been found, but rather many fragments of rounded carinated walls that allow for a comparison with the so-called Casseroles, particularly the type characterized by the internal junction with a bevelled angle (Pl. III: 18; pl. IV: 24; pl. V: 27). These samples can be compared with similar findings from many sites of the region, such as Giricano (Schachner 2002b: fig. 45: b), Hacinebi A (Pearce 2000: fig. 3: b), Kurban VIA (Algaze 1990: pl. 25: I) and Brak HS1 6 (Felli 2003: fig. 4.20.14). A variation of this type presents an internal rounded junction and a slightly thinned rim (Pl. III: 19; pl. IV: 23; pl. V: 28-30, 32) and can be compared with samples from Hacinebi A (Pearce 2000: fig. 3: d), Kurban VIA-B (Algaze 1990: pl. 36: G) and Hammam et-Turkman VB (Akkermans 1988a: fig. 108: 109). A sample of this type is the cannon-spouted jar with everted short neck and simple rim (Pl. VII: 43). Among the closed forms, other attested types are the jars with everted short necks with medium width mouth, sloping shoulder, and simple rim (Pl. III: 20; pl. IV: 21)

or flattened rim (Pl. VII: 40-41), that can be compared with samples from Kurban VI Pit 203 & VIA-B (Algaze 1990: pl. 18: E, H; 36: E) and Hammam et-Turkman VA (Akkermans 1988a: fig. 103: 67). Among the jars with short necks and wide mouths there is also a characteristic storage jar with internal corrugations low on the interior of the neck (Pl. VII: 39). This type is recorded at Hacinebi A (Pearce 2000: fig. 4: f), Leilan V (Schwartz 1988a: fig. 60: 5), Brak CH B, CH 10 & HS1 6 (Fielden 1981: fig. 2: 13-14; Oates J. 1985: fig. 1: 13; Felli 2003: fig. 4.20.16), Chagar Bazar (McMahon et al. 2001: fig. 5: k) and in 'Amuq F (Braidwood and Braidwood 1960: fig. 176: 13). Among the jars with slightly everted short necks there is also a sample with narrow mouths and wide shoulder (Pl. VII: 44) that can be compared with the only other example from Kurban VI (Algaze 1990: pl. 39: A). The hole-mouth jars are represented by a single sample with a slightly raised rim characterized by a rather coarse grey fabric and a burnished surface, probably in "Uruk grey" ware (Pl. VIII: 49). A similar type is recorded from Hammam et-Turkman VB (Akkermans 1988a: pl. 107: 101) and Nineveh Middle Ninevite 3 (Gut 2002: fig. 15: 9). Wide-short-necked jars with an internally angled and tapered rim (Pl. III: 17) are also present at Hirbemerdon Tepe and can be compared with those samples from Giricano (Schachner 2002b: fig. 45: c), Kurban VIA (Algaze 1990: pl. 25: F) and Hammam VB (Akkermans 1988a: pl. 110: 123-124). The medium sized wide-necked jars with a short straight collar are a widely common type and recorded in three different variations: with a simple rim (Pl. III: 16; pl. VI: 33-34), with a flattened rim (Pl. II: 14; pl. V: 15; pl. IV: 22; pl. VI: 36) and with a flattened and slightly thickened rim on the outside (Pl. VI: 35, 37). These types can be compared with samples from the assemblages of Hacinebi A (Pearce 2000: fig. 3: e), Kurban Pit 203 & VIA-B (Algaze 1990: pl. 18: B, F-H; 36: I), Brak HS1 6 (Felli 2003: fig. 4.20.11) and Hammam et-Turkman VB (Akkermans 1988a: fig. 110: 125). Similar to this type is the jar with a slightly everted neck, simple or flattened rim and a medium width mouth (Pl. IV: 25; pl. V: 26, 31; pl. VII: 42; pl. VIII: 45) comparable with findings from Giricano (Schachner 2002b: fig. 45: d), Kurban Pit 203 & VIA-B (Algaze 1990: pl. 18: E; 37: H), Brak HS1 6 (Felli 2003: fig. 4.20.7) and Hammam et-Turkman VB (Akkermans 1988a: fig. 110: 126). A single example of a jar with a wide mouth, with an outwardly thickened and flattened rim and a sloping shoulder (Pl. VI: 38) can be compared with a finding from Hammam et-Turkman VB (Akkermans 1988a: fig. 110: 123). Also attested by a single example is an irregularly shaped small basin with a simple rim, slightly inverted walls, a rounded carination and a flat base (Pl. VIII: 46). A particular type recorded at Hirbemerdon is a large tray with straight wall and a series of holes along the edge (Pl. VIII: 47). The shape is irregular and presents at least one side opening. The fabric contains chaff, mica, grits and small pebbles; this coarse ware is very irregular on the surface. This type can be assimilated to the mangals, a sort of brazier,²¹ widespread in the Late Chalcolithic sites of Transcaucasia (Gülçur and Marro 2012: 319). Another type consists of a sort of support with a vertical wall and at least one hole (Pl. VIII: 48), that can belong to the same category.²²

These materials from Hirbemerdon Tepe are a new *corpus* that enriches the ceramic types of the upper Tigris river region,²³ and generally the knowledge of the Late Chalcolithic in the northern part of the

²¹ The discussion on the real use for these vessels is still ongoing. The perforation could be interpreted as holes made in order to fix a sort of a metalic grid or spit, but as already said there is no consensus among scholars about their use in direct contact with

²² See the similarities with the sample from Ovçular (Gülçur and Marro 2012: fig. 11: 4).

²³ Nowadays evidences ascribable to the Late Chalcolithic are quite numerous in the area of Ilisu Dam Reservoir. At Giricano the "*Uruk grey*" ware of the early part of the LC 3 is recorded (Schachner 2002b: 54), while at Kuriki and Kenan other contexts with similar indigenous repertoires, partially slightly later, are attested. At Kuriki pottery from the level IVB with its phases (IVB1, IVB2, IVB3, IVB4) in Area A, and probably from Level IV in Area B, roughly corresponds to the assemblage from Hirbemerdon, especially for the presence of the CFW and its characteristic diagnostic forms (Genç, Valentini and D'Agostino 2012: 469-471; Valentini 2012: 283). Kenan has instead provided a longer sequence. The Late Chalcolithic materials, found in different areas of the site, including hammerhead bowls and casseroles, has been variously dated between the second part of the LC 3 or LC 4 and the beginning of the LC 5 (Creekmore 2007: 95-96; Parker *et al.* 2008: 104; Parker and Foster 2009: 525-526, 530-531; fig. 6). Other sites such as Kavaşan (Kozbe, Köroğlu and Sağlamtimur 2004: 499-500; fig. 17) and Salat (Ökse *et al.*

"Greater Mesopotamia". While the archaeological evidence is not so large in terms of excavated surfaces and associated ceramic materials, we can guess that the site was part of a regional system composed mainly by small rural settlements located near the course of the Tigris river and its tributaries. Although it is complicated assigning an assemblage to a precise phase when "Uruk" tradition artefacts - that are a good guarantee for dating - are not present, the close similarity with numerous assemblages of the Syrian-Iraqi Jazirah and southeastern Anatolia allows us to consider a dating for these materials and their location in a wider regional pattern (Tab. 3). The recorded diagnostic types - such as Hammerhead Bowls and Casseroles in their earliest variations, and jars with an everted internally grooved neck - match with the LC 3 assemblage. The presence of some bowls with internally bevelled rim and of the "Uruk grey" ware, and at the same time the absence of any southern "Uruk" material, causes us to lean towards a possible dating in the earliest part of LC 3 that corresponds to the period before the first contacts between the upper Tigris region and "Uruk" southern Mesopotamia.

2001: 623-637; fig. 8-9; Ökse and Görmüş 2013b: 135-136) have partly contemporary assemblages. Further downstream, along a tributary of the Tigris river, Başur has shown an abundant repertoire in CFW characterized by hammerhead bowls and casseroles (Sağlamtimur and Kalkan 2015: 60-61; fig. 6-8). Further south, in the plain area of Cizre-Silopi, a number of sites has provided Late Chalcolithic materials marked by the typical CFW repertoire (Algaze, Hammer and Parker 2012. 19-21; fig. 19: 5-9, 11- 15).

SAR	LC1	ונ	10.2	IG3	IC4	TC5
		Early	Late			
Gut 1995	Post-Ubaid	"Gawra A"	"Gawra B"	"Uruk A"	"Uruk B"	"Uruk C"
Upper Tigris river valley						
Hirbemerdon Tepe				↑	; <u></u>	
Giricano			•	į		
Kenan Tepe				→ ¿	•	•
Kuriki Höyük					¿ ↑	
South-eastern Anatolia						
Sakçe Gözü	lVa-b →	IVc	V?→	۸		
Kurban Höyük				VIB→	VIA→	
Hassek Höyük						5
Karatut Mevkii				•		
Hayaz Höyük	?→	?				
Samsat				↓	XX-II-XX	
Hacınebi Tepe			+	A $B1 \rightarrow$	82→	
Arslantepe	↑IIII	1	1	↑ II/\		←VIA
Upper Euphrates River Valley	,		,			
Norşuntepe WH	7 10	1	9			
Korucutepe			\	В		
Tepecik			14-			
Tülintepe			•			
Fatmalı Kalecik			•			
Çayboyu			•	.		
Northern Iraq						
Tepe Gawra	XII	XIA/XA	XI-X	VIII→		
Ninive			MM -59-/50	MM -45/-38	MM -37/-31	MM -31/-20
Arpachiya			-			
Qalinj Agha		VI-V →	IV-I			
Yorgan Tepe		γ ? Υ			•	

								į				
								-				
	į					3b-a→ 4→		LP →		IIA→	į	
			•		į	Zb-a			•	all→		
				<i>29-2</i> →			,			↑		
										N		
Kudish Saghir	Gerdi Resh	Raffaan	Mashrafa	Tell as-Shamali	Tell Thuwaij	Khirbet Hatara	Abu Dhahir	Tell al-Hawa	Telul eth-Thalatat	Grai Resh	Tell Gurdi	

Tell Hamoukar TW						-		
ΛL		; ■ →	;			•	←	
		TW 21-20	ML	TW 19 → TW 18	TW 17-14	1	TW 13	TW 12-11
CH CH 15-20	-50	CH (14)-13		CH 12	CH 12-9 →			
HS	HS6 9-7 →	HS6 6-2 →		HS 1 7-6 →		← HS 1 5-3		
Tell Leilan ← VIb					$\wedge\!$			
Tell Feres es-Sharqi	6	←8-4?	4 ?		3	←2		1
Mashnaqa B1		B2?	B3?	84?→	L) →	S	(2?	8
Kashkashok II				•				
Umm Qseir ←	\	\	Phase 2"early"	1		Phase	Phase 2"late"	
Hammam et-Turkman IVD-VA	→	WA→		←VB				
Tell Sheikh Hassan						-		
Tell Kosak Shamali					"Post-Ubaid"			
Habuba Kabira Süd								•

Western Syria										
'Amuq	Э						F	1		9
Tell Abu Dannè						↓	IIA	1		
Tell Afis	<i>i</i> →	↓	25-19	↑	į	18?				
Hama					← 01 Ж		K	1	į	

Table 3 - Chronological sequence of the LC sites in northern Mesopotamia, southeastern Anatolia and Syria.

Hirbemerdon Tepe Bibliographic References

- Abend, K., S. Caspi and N. Laneri. 2010. "Conserving Fragments of Icons: Clay Votive Plaques from Hirbemerdon Tepe, Turkey". In *Conservation and the Eastern Mediterranean. Proceedings of the 2010 Istanbul Congress for Conservation in the Eastern Mediterranean* edited by C. Rozeik, A. Roy and D. Saunders, 158-164. Istanbul: ICC.
- Brancato, R. forthcoming. *Settlement Patterns and Political Landscapes in the Upper Tigris River Valley*. Studies on the Ancient Near East and the Mediterranean, 2. Rome: Arbor Sapientiae Editore.
- Crescioli, L. and N. Laneri. 2011. "Downsizing a Ceremonial Centre: A Brief Overview of the Late Bronze Age Period at Hirbemerdon Tepe (SE Turkey)". *Anatolica*, 37:115-146.
- D'Agostino, A. 2012a. "Hirbemerdon Tepe and the Upper Tigris Valley during the Early second Millennium: A First Assessment of the Local Pottery Horizon". In Laneri, N., Pfälzner, P. and S. Valentini (eds.), Looking North: The Socio-Economic Dynamics of the Northern Mesopotamian and Anatolian Regions during the Late Third and Early Second Millennium BC. Studien zur Urbanisierung Nordmesopotamiens, D, 1, 193-212. Wiesbaden: Harrassowitz Verlag.
- 2012b. "Tra le montagne anatoliche e le steppe siriane: problemi di archeologia nell'alta valle del fiume Tigri tra Bronzo antico ed Età del Ferro". In *Studi di Archeologia del Vicino Oriente. Scritti degli allievi fiorentini per Paolo Emilio Pecorella* edited by S. Mazzoni, 185-244. Florence: Florence University Press.
- D'Agostino A., S. Valentini, and N. Laneri. 2008. "Archaeological Work at Hirbemerdon Tepe, Turkey: A Preliminary Report For the First Three Seasons". In *Proceedings of the Vth International Congress on the Archaeology of the Ancient Near East. Madrid, April 3-8 2006* edited by J.M. Cordoba, M. Molist, M. Carmen Perez, I. Rubio and S. Martinez, 549-566. Madrid: UAM, 2008.
- Guarducci, G. 2011., Facing an Empire: Hirbemerdon Tepe and the Upper Tigris Region During the Early Iron Age and Neo-Assyrian Period. New York: Piscataway.
- Guarducci, G. 2012, "Nairi Ware: la produzione ceramica in Anatolia sud-orientale fra l'Età del Bronzo Tardo e l'Età del Ferro Medio". In *Studi di Archeologia del Vicino Oriente. Scritti degli allievi fiorentini per Paolo Emilio Pecorella* edited by S. Mazzoni, 245-274. Florence: Florence University Press.
- Guarducci, G. and N. Laneri. 2010, "Hirbemerdon Tepe during the Iron Age Period: A Case Study in the Upper Tigris River Region". *Anatolica*, 36:17-65.
- Hammer, E. 2012. *Local Landscapes of Pastoral Nomads in Southeastern Turkey*. Unpublished Doctoral Thesis, Cambridge: Harvard University.
- ———. 2014. "Local Landscape Organization of Mobile Pastoralists in Southeastern Turkey". *Journal of Anthropological Archaeology* 35:269-288.
- Laneri, N. 2005. "Hirbemerdon Tepe 2003: A Preliminary Report". Kazı Sonucları Toplantısı, 26:63-72.
- ——. 2005b. "Hirbemerdon Tepe". In *Guida delle Missioni Archeologiche Italiane in Turchia*, 49-54. Istanbul: Istituto Italiano di Cultura.
- ——. 2006a. "Hirbemerdon Tepe 2004". Kazı Sonucları Toplantısı, 27:80-94.

- —. 2006b. "The Second Season of Arcaeological Work at Hirbemerdon Tepe, Turkey: A Preliminary Report". East and West, 56 (4):241-50. -. 2008a. "Hirbemerdon Tepe. A Middle Bronze Age Site in Northern Mesopotamia". East and West, 58:365-376. -. 2008b. "Hirbemerdon Tepe. A Middle Bronze Age Site in Northern Mesopotamia". East and West, 58:365-376. ——. 2010. "Hirbemerdon Tepe". *Aktuel Arkeoloji Dergisi*, Sept. 2010:42-51. -. 2011. "Connecting Fragments of a Materialized Belief: A Small-Sized Ceremonial Settlement in Rural Northern Mesopotamia at the Seginning of the Second Millennium BC". Cambridge Archaeological Journal, 21 (1):77-94. –. 2012a. "Hirbemerdon Tepe Arkeoloji Projesi 2010". Kazı Sonucları Toplantısı, 33 (3):341-352. Sanat, 139:41-48. —. 2012c. "Hirbemerdon Tepe: Un centro cerimoniale nell'alta valle del Tigri". In Ricerche italiane in Anatolia: Risultati delle attività sul campo per le età del Bronzo e del Ferro. Serie Asiana, 6, 80-90. Rome: Herder. ——. 2013a. "Hirbemerdon Tepe". Arkeo Atlas, 8:96-99. —. 2013b. "Hirbemerdon Tepe Arkeoloji Projesi". Kazı Sonucları Toplantısı, 34 (1):253-260. — 2013c. "Hirbemerdon Tepe". In Ricerche Archeologiche Italiane in Turchia: Restauro e Valorizzazione, 21-22. Istanbul: Istituto Italiano di Cultura. —. 2013d. "The Hirbemerdon Tepe Archaeological Project 2003-2008". In *The Ilisu Dam and Hep* Project Excavations 2004-2008, 237-262. Diyarbakır: Diyarbakır Museum. —. 2014a. "Hirbemerdon Tepe 2003-2011. The Chronological Sequence". In *Proceedings of the VIIth International Congress on the Archaeology of the Ancient Near East 30 April – 4 May 2012* edited by P. Bieliński, M. Gawlikowski, R. Koliński, D. Ławecka, A. Sołtysiak and Z. Wygnańska, 341-353. University of Warsaw. Berlin: Harrassowitz Verlag. —. 2014b. "Interpreting the Settlement Pattern of a Rural Area: The Upper Tigris Valley Region during the Middle Bronze Age". In The Archaeology of Upper Mesopotamian Piedimont in the Second Millennium BC edited by D. Bonatz, 119-130. Series Topoi, Berlin Studies of the Ancient World. Berlin: Walter de Gruyter. — 2014c. "Il cervo e le pratiche cerimoniali ad Hirbemerdon Tepe". Journal of Archaeology and Art. Arkeoloji ve Sanat, 148:53-62. -. 2014d. "Hirbemerdon Tepe". Aktuel Arkeoloji, Aug.:8-11.
- Laneri, N., A. D'Agostino and S. Valentini. 2006a. "Hirbemerdon Tepe". *Archeologia Viva*, July-August:25-30.
- Laneri, N., A. D'Agostino, M. Schwartz, S. Valentini and G. Pappalardo. 2006b. "A Preliminary Report of the Archaeological Excavations at Hirbemerdon Tepe, Southeastern Turkey, 2005". *Anatolica*, 33:153-88.
- Laneri, N., A. D'Agostino and S. Valentini. 2007. "The Upper Tigris Valley in Southeastern Anatolia: A Bridge Between Mesopotamia and Anatolia". In *Transanatolia: Bridging the Gap between East and West in the Archaeology of Anatolia* edited by A. Greaves and A. Fletcher, 16-24. Anatolian Studies, 57.
- Laneri, N. and M. Schwartz. 2008a. "Hirbemerdon Tepe 2006". Kazı Sonucları Toplantısı, 29:137-148.
- Laneri, N., M. Schwartz and J. Ur. 2008b. "The Hirbemerdon Tepe Archaeological Project". Antiquity, 82

- (315) http://www.antiquity.ac.uk/projgall/laneri/.
- Laneri, N., M. Schwartz, J. Ur, S. Valentini, A. D'Agostino, R. Berthon and M.M. Halde. 2008c. "The Hirbemerdon Tepe Archaeological Project 2006-2007: A Preliminary Report on the Middle Bronze Age 'Architectural Complex' and the Survey of the Site Catchment Area". *Anatolica*, 34:177-239.
- Laneri, N., M. Schwartz, S. Valentini, A. D'Agostino and S. Nannucci. 2009. "The Hirbemerdon Tepe Archaeological Project: The First Four Seasons of Archaeological Work at a Site in the Upper Tigris river valley, SE Turkey". *Ancient Near Eastern Studies*, 46:212-76.
- Laneri, N., P. Pfälzner and S. Valentini, eds. 2012a. *Looking North. The Socio-Economic Dynamics of the Northern Mesopotamian and Anatolian Regions During the Late Third and Early Second Millennium BC*. Studien zur Urbanisierung Nordmesopotamiens, D, 1. Berlin: Harrassowitz Verlag.
- Laneri, N., S. Valentini and P. Pfalzner. 2012b. "Introduction". In Looking North. The Socio-Economic Dynamics of the Northern Mesopotamian and Anatolian Regions During the Late Third and Early Second Millennium BC edited by N. Laneri, P. Pfälzner and S. Valentini, 1-9. Studien zur Urbanisierung Nordmesopotamiens, D, 1. Berlin: Harrassowitz Verlag.
- Laneri, N. M. Schwartz and S. Valentini. 2012c. "Hirbemerdon Tepe: A Middle Bronze Age Site in the Upper Tigris river valley". In *Looking North. The Socio-Economic Dynamics of the Northern Meso-potamian and Anatolian Regions During the Late Third and Early Second Millennium BC* edited by N. Laneri, P. Pfälzner and S. Valentini, 137-149. Studien zur Urbanisierung Nordmesopotamiens, D, 1. Berlin: Harrassowitz Verlag.
- Laneri, N., M. Schwartz, J. Ur, A. D'Agostino, R. Berthon, M. M. Hald and A. Marsh. 2015. "Ritual and Identity in Rural Mesopotamia: Hirbemerdon Tepe and the Upper Tigris river valley in the Middle Bronze Age". *American Journal of Archaeology*, 119 (4):533-564.
- Laneri, N. and M. Schwartz. 2008. "Hirbemerdon Tepe 2006". Kazı Sonucları Toplantısı, 29:137-148.
- ——. 2011. "Southeastern and Eastern Anatolia: The Middle Bronze Age". In *The Oxford Handbook of Ancient Anatolia, 10,000-323 B.C.E* edited by S.R. Steadman and G. McMahon, 337-360. Oxford: Oxford University Press.
- Laneri, N. and J. Ur. 2010 "The Hirbemerdon Tepe Archaeological Project 2007: A Preliminary Report". *Kazı Sonucları Toplantısı*, 30 (3):213-230.
- Ur, J.A. and E.L. Hammer. 2009. "Pastoral Nomads of the Second and Third Millennia AD on the Upper Tigris River, Turkey: Archaeological Evidence from the Hirbemerdon Tepe Survey". *Journal of Field Archaeology*, 34:37-56.

General Bibliographic References

- Akkermans, P.M.M.G. 1988a. "The Period V Pottery". In *Hammam et-Turkman I: Report on the University of Amsterdam's 1981-84 Excavations in Syria I* edited by M.N. Van Loon, 287-349. Leiden: Nederlands Historisch-Archaeologisch Instituut Te Istanbul.
- ——. 1988b. "An Updated Chronology for the Northern Ubaid and Late Chalcolithic Periods in Syria: New Evidence from Tell Hammam et-Turkman". *Iraq*, 50:109-145.
- Algaze, G. ed. 1986. "Kurban Höyük and the Late Chalcolithic Period in the Northwest Mesopotamian Periphery". In *Ğamdat Nasr Period or Regional Style? Beiheft zum Tübinger Atlas des Vorderen Orients, B, 62* edited by U. Finkbeiner and W. Röllig, 274-315. Wiesbaden, Ludwig Reichert.
- Algaze, G. 1990. Town and Country in Southeastern Anatolia. The Stratigraphic Sequence at Kurban Hoyuk. Oriental Institute Publications, 110. Chicago: The Oriental Institute Press.
- Algaze, G., R. Breuninger, C. Lightfoot and M. Rosenberg. 1991. "The Tigris- Euphrates Archaeological Reconnaissance Project: A Preliminary Report of the 1989-1990 Seasons". *Anatolica*, 17:176-240.
- Algaze, G., E. Hammer, B. Parker, R. Breuninger and J. Knudstad. 2012. "The Tigris-Euphrates Archaeological Reconnaissance Project: Final Report of the Cizre-Silopi Plain Survey Areas". *Anatolica*, 37:1-115.
- Amiran, R. 1952. "Connections between Anatolia and Palestine in the Early Bronze Age". *Israel Exploration Journal*, 2:89-103.
- Aquilano, M. and S. Valentini. 2011. "Andirons and Portable Hearts in the Upper Tigris Valley". Unpublished paper presented at the 2011 ILISU Dam Archaeology Symposium, 19-22 October, Mardin.
- Armstrong, P. 2001. "Seljuqs before the Seljuqs: Nomands and Frontiers inside Byzantium". In *Eastern Approach to Byzantium, Papers from the Thirty-third Spring Symposium of Byzantine Studies* edited by A. Eastmond, 277-286. University of Warwick, March 1999. University of Warwick: Aldershot.
- Ay, E. 2001. "Upper Tigris Valley Survey: 1999 Season". In *Salvage Project of the Archaeological Heritage of the Ilisu and Carchemish Dam Reservoirs, Activities in 1999* edited by N. Tuna, J. Öztürk and J. Velibeyoğlu, 515-532. Ankara: Middle East Technical University.
- ——. 2010. "Müslümantepe". Aktüel Arkeoloji Dergisi, 17:84-89.
- ———. 2011. "Müslümantepe Excavations 2002". In Salvage Projects of the Archaeological Heritage of the Ilisu and Carchemish Dam Reservoirs Activities in 2002, Volume II edited by N. Tuna and O. Doonan, 515-532. Ankara: Middle East Technical University.
- ——. 2013. "Bahar Tapınağı". Arkeo Atlas, 8:106-111.
- Ball, W., D. Tucker and T.J. Wilkinson. 1989. "The Tell al-Hawa Project: Archaeological Investigations in the North Jazira 1989-87". *Iraq*, 51:1-66.
- Barin, G., E. Akin and F.S. Sahin. 2004. "Ilisu Klasik Yuzey Arastirmalari 2002". *Arastirma Sonuclari Toplantisi*, 21 (1):127-138.
- Bartl, K. 2001. "Eastern Anatolia in the Early Iron Age". In Migration und Kulturtransfer: Der Wandel

- vorder- und zentralasiatischer Kulturen im Umbruch vom 2. zum 1. vorchristlichen Jahrtausend. Kolloquien zur Vorund Frühgeschicte Band 6 edited by R. Eichmann and H. Parzinger, 383-410. Bonn: Habelt.
- ———. 2012. "Giricano and Ziyaret Tepe: Two Middle Bronze Age Sites in the Upper Tigris Region". In Looking North. The Socio-Economic Dynamics of the Northern Mesopotamian and Anatolian Regions During the Late Third and Early Second Millennium BC edited by N. Laneri, S. Valentini and P. Pfalzner, 175-188. Studien zur Urbanisierung Nordmesopotamiens, D, 1. Berlin: Harrassowitz Verlag.
- Belli, O. 1993. "Neue Funde steinerner Gußformen aus Akçadağ bei Malatya". In *Between the Rivers and over the Mountains. Archaeologica Anatolica et Mesopotamica Alba Palmieri Dedicata* edited by M. Frangipane, H. Hauptmann, M. Liverani, P. Matthiae and M. Mellink, 605-613. Rome: Rome University Press.
- Beyer, D., ed. 1982. *Meskéné-Emar, dix ans de traveaux 1972-1982*. Paris: Éditions Recherche sur les Civilisations.
- Bianchi, A. 2012. "A Diachronic Case? Comparing Pottery Types of the Northern Khabur Triangle and the Upper Tigris Region at the End of the Third Millennium BC". In *Looking North. The Socio-Economic Dynamics of the Northern Mesopotamian and Anatolian Regions During the Late Third and Early Second Millennium BC* edited by N. Laneri, S. Valentini and P. Pfalzner, 155-71. Studien zur Urbanisierung Nordmesopotamiens, D, 1. Berlin: Harrassowitz Verlag.
- Bianchi, A. and A. Özfirat. 2014. "Dark Rimmed Orange Bowl Ware". In *Arcane Interregional. Ceramics. Vol. I* edited by M. Lebeau, 271-281. Turnhout: Brepols.
- Blaum, P. 1993. "History of the Kurdish Marwanid Dynasty (983-1085), Part II". *Kurdish Studies: An International Journal*, 6:40-65.
- Blaylock, S.R. forthcoming. "The Achaemenid Level at Tille Höyük on the Euphrates and other evidence for Achaemenid Archaeology in South-East Anatolia". In *Anadolu'daki Persler/Persians in Anatolia: Age of the Great Kings* edited by K. Iren, Ç. Atay and Ö Kasar. Istanbul: Yapı Kredi Yayınları.
- Boehmer, R.M. 1972. "Die Kleinfunde von Bogazköy aus den Grabungskampagnen 1931-1939 und 1952-1969". *Wissenschaftliche Veröffentlichungen der Deutschen Orient-Gesellschaft*, 87. Bogazköy-Hattusa/Berlin: Gebr. Man Verlag.
- Bombardieri, L. 2010. Pietre da macina, macine per mulini: Definizione e sviluppo delle tecniche per la macinazione nell'area del Vicino Oriente e del Mediterraneo antico. British Archaeological Reports, International Series 2055. Oxford: Archaeopress.
- Bosworth, C.E. 1973. "Barbarian Incursions: The Coming of the Turks into the Islamic World". In *Islamic Civilization 950-1150* edited by D.S. Richard, 1-16. Oxford: Cassirer.
- ——. 1996a. "The Seljuqs, Their Dependents and the Atabegs". In *The New Islamic Dynasties: A Chronological and Genealogical Manual* edited by C.E. Bosworth, 185-212. Edinburgh: Edinburgh University Press.
- ——. 1996b. Bosworth, C.E., *The New Islamic Dynasties: A Chronological and Genealogical Manual.* Edinburgh: Edinburgh University Press.
- Braidwood, R.J. and L. S. Braidwood. 1960. *Excavations in the Plain of Antioch. The Early Assemblages*. Oriental Institute Publications, 61. Chicago: The Oriental Institute Press.
- Bronk Ramsey, C. 2009. "Dealing with Outliers and Offsets in Radiocarbon Dating". *Radiocarbon*, 51 (3):1023-1045.
- Brustolon, A. and E. Rova. 2007. "The Late Chalcolithic Period in The Tell Leilan Region: A Report on the Ceramic Material of the 1995 Survey". *Kaskal*, 4:1-42.
- Buccellati, M.K. 2004. "Andirons at Urkesh: New Evidence for the Hurrian Identity of the Early Transcau-

- casian Culture". In *A View from the Highlands. Archaeological Studies in Honour of Charles Burney* edited by A. Sagona, 67-89. Ancient Near Eastern Studies, 12. Leuven: Peeters.
- Buccellati, G. and M. Kelly-Buccellati. 1998. *Mozan I. The Soundings of the First Two Seasons*. Bibliotheca Mesopotamica, 20. Malibu: Undena Publications.
- Buchanan, B. 1967. "The Prehistoric Stamp Seal: A Reconsideration of Some Old Excavations". *Journal of the American Oriental Society*, 87 (3):265-279.
- Burney, C.A. 1961. "Excavations at Yanik Tepe, North West Iran". Iraq, 13:138-153.
- Contenau, G. and R. Ghirshman. 1935. Fouilles du Tépé-Giyan, près du Néhavend 1931 et 1932. Paris, Musée du Louvre.
- Cooper, L. 2006. "The Demise and Regeneration of Bronze Age Urban Centers in the Euphrates Valley of Syria". In *After Collapse. The Regeneration of Complex Societies* edited by G.M. Schwartz and J.J. Nichols, 18-37. Tucson: University of Arizona Press.
- Coppini, C. 2008. "Mitannian Pottery from Tell Barri". In *Proceedings of the Vth International Congress on the Archaeology of the Ancient Near East. Madrid, April 3-8 2006* edite by J.M. Cordoba, M. Molist, M. Carmen Perez, I. Rubio and S. Martinez, 477-492. Madrid: UAM, 2008.
- Costin, C.L. 1991. "Craft Specialization: Issues in Defining, Documenting and Explaining the Organization of Production". In *Archaeological Method and Theory, vol. 3* edited by M.B.Schiffer, 1-56. Tucson: University of Arizona Press.
- ———. 2001. "Craft Production Systems". In *Archaeology at the Millennium: A Sourcebook* edited by G.M. Feinman and T. Douglas Price, 273-327. New York: Kluwar Academic/Plenum Press.
- Craddock, P.T., I.C. Freestone and C.D. Dawe. 1997. "Casting Metals in Limestone Moulds". *Historical Metallurgy*, 31 (1):1-7.
- Creekmore, A. 2007. "The Upper Tigris Archaeological Research Project (UTARP). A Summary and Synthesis of the Late Chalcolithic and Early Bronze Age Remains from the First Seasons at Kenan Tepe". *Anatolica*, 33:75-128.
- Curtis, J.E. 1983. "Axe-Heads from Chagar Bazar and Nimrud". *Iraq*, 45:73-81.
- Curtis, J. and N. Tallis, eds. 2005. Forgotten Empire: The World of Ancient Persia. London: British Museum Press.
- D'Agostino A. 2008. "Between Mitannians and Middle-Assyrians: Changes and Links in Ceramic Culture at Tell Barri and in Syrian Jazirah During the End of the 2nd Millennium BC". In *Proceedings of the Vth International Congress on the Archaeology of the Ancient Near East. Madrid, April 3-8 2006* edited by J.M. Cordoba, M. Molist, M. Carmen Perez, I. Rubio and S. Martinez, 525-548. Madrid: UAM.
- ———. 2011. "The Upper Khabur and Upper Tigris Valleys Between the End of the Late Bronze Age and the Beginning of the Iron Age: an Assessment of the Archaeological Evidence (Settlement Patterns and Pottery Assemblages)". In *Empires after Empire. Anatolia, Syrian and Assyria after Suppiluliuma II (ca. 1200-800/700 B.C.)* edited by K. Strobel, 87-136. Florence: LoGisma.
- ——. 2014. "The Upper Khabur and the Upper Tigris Valleys during the Late Bronze Age: Settlements and Ceramic Horizons". In *The Archaeology of Political Spaces. The Upper Mesopotamian Piedmont in the Second Millennium BC* edited by D. Bonatz, 169–200. Berlin/Boston: De Gruyter.
- De Jesus, P.S. 1980. *The Development of Prehistoric Mining and Metallurgy in Anatolia*. British Archaeological Reports, International Series 74. Oxford: Archaeopress.
- Diamant, S. and J. Rutter. 1969. "Horned Objects in Anatolia and the Near East and Possible Connections with the Minoan 'Horns of Consecration'". *Anatolian Studies*, 19:147-176.
- Di Nocera, G. 1998. Die Siedlung der mittelbronzezeit von Arslantepe: eine Zentralsiedlung von Beginn des

- zweiten Jahrtausends v.Chr. in der Ebene von Malatya (Türkei). Rome: Visceglia.
- Dodd, L.S. 2012. "Filling a Niche: Settlement Expansion and Innovation in the Upper Tigris River Valley During the Middle Bronze Age". In *Looking North: The Socioeconomic Dynamics of the Northern Mesopotamian and Anatolian Regions During the Late Third and Early Second Millennium BC. Studien zur Urbanisierung Nordmesopotamiens, D, I* edited by N. Laneri, S. Valentini and P. Pfalzner, 213-238. Wiesbaden: Harrassowitz Verlag.
- Doğan, U. 2005. "Holocene Fluvial Development of the Upper Tigris Valley (Southeastern Turkey) as Documented by Archaeological Data". *Quaternary International*, 129:75-86.
- Doyuran, V., V. Toprak and H. Akgün. 2001. "Geotechnical Problems of Hasankeyf Settlement Area". In Salvage Project of the Archaeological Heritage of the Ilisu and Carchemish Dam Reservoirs Activities in 1999 edited by N. Tuna, J. Öztürk and J. Velibeyoğlu, 833-54. Ankara: Middle East Technical University.
- Du Mesnil du Buisson, R. 1948. *Baghouz: L'Ancienne Corsôtê. le tell archaïque et la nécropole de l'Âge du Bronze*. Leiden: Brill.
- Duistermaat, K. 2008. The Pots and Potters of Assyria: Technology and Organization of Production, Ceramics Sequence and Vessel Function at Late Bronze Age Tell Sabi Abyad, Syria. Papers on Archaeology from the Leiden Museum of Antiquities, 4. Leiden: Brepols.
- Dyson, R.H. 1999a. "The Achaemenid Painted Pottery of Hasanlu IIIa". Anatolian Studies, 49 (1):1-10.
- ——. 1999b. "Triangle-Festoon Ware Reconsidered". Iranica Antiqua, 34:115-144.
- Erarslan, A. 2009. "Local Settlement Transitions in Southeastern Anatolia during the Late Third and Early Second Millennium BC". *Altorientalische Forschungen*, 36 (2):268-292.
- Erdem, A. 2012. "Regional Variations in Iron Age Grooved Pottery in Eastern Anatolia". In *Anatolian Iron Ages 7 The Proceedings of the Seventh Anatolian Iron Ages Colloquium Held at Edirne, 19–24 April 2010* edited by A. Çilingiroğu and A. Sagona, 113-129. Ancient Near Eastern Studies supplement, 39. Leuven: Peeters.
- Erkanal, H. 1977. Die Äxte und Beile des 2. Jahrtausends in Zentralanatolien. Munich: Beck.
- Erkanal, H. 1991. "Girnavaz kazıları". Kazı Sonuçları Toplantısı, 12 (1):261-273.
- Ertem, H. 1972. "Han İbrahim Şah Kazısı 1970". *Keban Project Han İbrahim Şah Excavations 1970-1971*, 63-68. Ankara: Türk Tarih Kurumu Basımevi.
- . 1982. "Keban Project. Han Ibrahim Şah Excavations". *Keban Project Han İbrahim Şah Excavations* 1970-1971. Ankara: Türk Tarih Kurumu Basımevi.
- Esin, U. 1969. Kuantitatif Spektral Analiz Yardımıyla Anadolu'da Başlangıcından Asur Kolonileri Çağına Kadar Bakır ve Tunç Madenciliği. İstanbul: Taş Matbaası.
- . 1970. "Tepecik Excavations 1968 Campaign, Preliminary Report". In *1968 Summer Work. METU, Keban Project Publications, I, 1*, 147-172. Ankara: Middle East Technical University.
- ——. 1972. "Tepecik Excavations 1970". In *Keban Project 1970 Activities. METU, Keban Project Publications, I, 3,* 149-160. Ankara: Middle East Technical University.
- ——. 1982. "Tepecik Excavations". In *METU, Keban Project 1982*, 7, 96-118. Ankara: Middle East Technical University.
- Faivre X. 1992. "La ceramique de Mohammed Diyab, Campagnes 1990 et 1991". In *Recherces en Haute Mésopotamie. Tell Mohammed Diyab. Campagnes 1990 et 1991* edited by J.-M. Durand, 55-89. Memoires de Novelles Assyriologique Brèves et Utilitaires Publications, suppl. 2. Paris: Societè pour l'Étude du Proche-Orient Ancien.
- Falb C., A. Porter and A. Pruss. 2014. "North-Mesopotamian Metallic Ware, Jazirah Stone Ware, North-

- Mesopotamian Grey Ware and Euphrates Banded Ware". In *Arcane Interregional. Ceramics. Vol. I* edited by M. Lebeau, 171-199. Turnhout: Brepols.
- Felli, C. 2003. "Developing Complexity. Early to Mid Fourth-millennium Investigations: the Northern Middle Uruk Period". In *Excavations at Tell Brak, vol 4: Exploring an Upper Mesopotamian regional centre. 1994-1996* edited by R. Matthews, 53-95. McDonald Institute Monographs. Cambridge: British School of Archaeology in Iraq.
- Festuccia, S. 2014. "Metallurgical Activities and Moulds: The Case of Ebla". In *Proceedings of the VIIIth International Congress on the Archaeology of the Ancient Near East 30 April 4 May 2012, University of Warsaw* edited by P. Bieliński, M. Gawlikowski, R. Koliński, D. Ławecka, A. Sołtysiak and Z. Wygnańska, 137-150. Berlin: Harrassowitz Verlag.
- Fielden, K. 1981. "A Late Uruk Pottery Group from Tell Brak". Iraq, 43:157-166.
- Forest, J.-D. 1983. Les pratiques funéraires en Mésopotamie du cinquiéme millénaire au début du troisième. Paris: Editions Recherche sur Civilisations.
- Foster, C.P. 2009. Household Archaeology and the Uruk Phenomenon: a Case Study from Kenan Tepe, Turkey. Unpublished Doctoral Thesis, Berkeley University.
- Freestone, I.C. 1989. "Refractory Materials and Their Procurement in Old World Archaeometallurgy". In *Proceedings of the International Symposium, Heidelberg 1987* edited by A. Hauptmann, E. Pernicka and A.G. Wagner, 155-161. Bochum: Selbstverlag des Deutschen Bergbau-Museums.
- Gasche, H. 1989. La Babilonie au 17e siècle avant notre ère: approche archéologique, problèmes et perspectives. Ghent: University of Ghent.
- Gates, M.H.C. 1981. "Alalakh Levels VI and V: A Chronological Reassessment". *Syro-Mesopotamian Studies*, 4 (2) Malibu: Undena.
- Genç, E., S. Valentini and A. D'Agostino. 2012. "Kuriki Hoyuk Archaeological Project 2010. A Preliminary Report". *Kazı Sonuçları Toplantısı*, 33 (2):463-479.
- Göyünç, N. and W.D. Hütteroth. 1997. *Land an der Grenze: Osmanische Verwaltung im heutigen türkisch- syrisch- irakischen, Grenzgebiet im 16. Jahrhundert.* Istanbul: Eren.
- Grootes, P.M., M.-J. Nadeau and A. Rieck. 2004. "14C-AMS at the Leibniz-Labor: Radiometric Dating and Isotope Research". *Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms*, 223-224, 55-61.
- Grossman, K. 2014. "Ninevite 5 Ceramics". In *Arcane Interregional. Ceramics. Vol. I* edited by M. Lebeau, 83-100. Turnhout: Brepols.
- Guarducci, G. 2014. "Linking the Mountains to the Plains: The Material Culture and Lifestyle of the Local Communities in Southeastern Anatolia during the Iron Age". In *Proceedings of the VIIth International Congress on the Archaeology of the Ancient Near East 30 April 4 May 2012* edited by P. Bieliński, M. Gawlikowski, R. Koliński, D. Ławecka, A. Sołtysiak and Z. Wygnańska, 61-77. University of Warsaw. Berlin: Harrassowitz Verlag.
- Gülçur, S. and C. Marro. 2012. "The View from the North: Comparative Analysis of the Chalcolithic Pottery Assemblages from Norşuntepe and Ovçular Tepesi". In *After the Ubaid. Interpreting changes from the Caucasus to Mesopotamia at the dawn of urban civilization (4500-3500BC). Papers from The Post-Ubaid Horizon in the Fertile Crescent and Beyond, International Workshop held at Fosseuse, 29th June-1st July 2009* edited by C. Marro, 305-352. Varia Anatolica, 27. Paris: De Boccard.
- Gut, R.V. 1995. Das prähistorische Ninive. Zur relativen Chronologie der frühen Perioden Nordmesopotamiens. Baghdader Forschungen 19. Mainz: Zabern Verlag.
- ——. 2002. "The Significance of the Uruk Sequence at Nineveh". In *Artefacts of Complexity: Tracking the Uruk in the Near East* edited by J.N. Postgate, 17-48. Iraq Archaeological Reports, 5. Warminster: Aris and Phillips.

- Holladay, J.S. 2001. "Toward a New Paradigmatic Understanding of Long-Distance Trade in the Ancient Near East: From the Middle Bronze II to Early Iron II A Sketch". In *The World of the Aramaeans II. Studies in History and Archaeology in Honor of Paul-Eugène Dion* edited by P.M.M. Daviau, J.W. Wevers and M. Weigl, 136-198. Sheffield: Sheffield Academic Press.
- Harper, R.P. 1971. "Pağnik Öğreni Excavations, 1969". *METU, Keban Project Publications, II, 1*, 95-102. Ankara: Middle East Technical University.
- Hauptmann, H. 1972. "Die Grabungen auf dem Norşuntepe, 1970". *METU, Keban Project 1970 Activities*, 103-1323. Ankara: Middle East Technical University.
- Holland, T.A. 2006. Archaeology of the Bronze Age, Hellenistic, and Roman Remains from an Ancient Town on the Euphrates River. Excavations at Tell Es-Sweyhat, Syria, volume 2. Oriental Institute Publications, 125. Chicago: The Oriental Institute Press.
- Jamieson, A. 2014. "Cyma-Recta Cups". In *Arcane Interregional. Ceramics. Vol. II* edited by M. Lebeau, 117-130. Turnhout: Brepols.
- Kantor H.J. 1958. "The Pottery". In *Soundings at Tell Fakhariyah* edited by C.W. McEwan, L.S. Braidwood, H. Frankfort, H.G. Güterbock, R.C. Haines, H.J. Kantor, and C.H. Kraeling, 21-41. Oriental Institute Publications, 79. Chicago: The Oriental Institute Press.
- Karg, N. 1999. "Gre Dimse 1998: Preliminary Report". In *Salvage Project of the Archaeological Heritage of the Ilisu and Carchemish Dam Reservoirs, Activities in 1998* edited by N. Tuna and J. Öztürk, 237-297. Ankara: Middle East Technical University.
- 2001. "Gre Dimse 1999, Ilk Sonuclar/First Soundings at Gre Dimse 1999". In *Salvage Project of the Archaeological Heritage of the Illisu and Carchemish Dams Reservoir Area in 1999* edited by N. Tuna, J. Öztürk and J. Velibeyoglu, 643-693. Ankara: Middle East Technical University.
- ———. 2002. "2000 Yili Gre Dimse (Ilisu) Kaz Kazı Çalişmari/Sounding at Grê Dimsê 2000". In *Salvage Project of the Archaeological Heritage of the Ilisu and Carchemish Dam Reservoirs, Activities in 2000* edited by N. Tuna and J. Velibeyoğlu, 699-737. Ankara: Middle East Technical University.
- Kaschau, G. 1999. *Lidar Höyük. Die Keramik der Mittleren Bronzezeit*. Archaeologica Euphratica, 3. Mainz: Zabern Verlag.
- Kelly-Buccellati, M. 2002. "Ein Hurritischer Gang in Die Undertwelt". *Mitteilungen der deutschen Orient- gesellschaft zu Berlin*, 134:131-148.
- Kennedy, H. 2004. The Prophet and the Age of Caliphates. Harlow, England: Pearson Longman.
- Kepinski, C. 2011. "New Evidence from Grai Resh, Northern Iraq the 2001 and 2002 Seasons. A Pre-Uruk Expansion Site from the Late Chalcolithic Period". *Zeitschrift für Orient-Archäologie*, 4:26-81.
- Kiepert, H. 1855. General Karte des Türkischen Reiches in Europa und Asien nebst Ungarn, Südrussland, den kaukasischen Ländern und West-Persien. Berlin, Reimer Verlag.
- Kibaroğlu, M. 2008. Petrographische und geochemische Untersuchungen an archäologischer Keramik aus Nordost-Syrien, Südost-Anatolien, Ost-Anatolien und Ost-Georgien. Unpublished Doctoral Thesis, University of Tubingen.
- Kobayashi, K., A. M. Zahidul and A. Mochizuki. 2003. "Classification of Obsidian Sources in Turkey (II): Classification of Obsidian Sources in Eastern Anatolia". *Anatolian Archaeological Studies*, 12:109-112.
- Köroğlu, K. 2008. "Yukarı Dicle bölgesinde Yeni Assur Krallığı sonrasına ilişkin kültürel değişimin tanımlanması: Geç Demir Çağı ve Hellenistik Dönem'in izleri". In *Muhibbe Darga Armağanı* edited by T. Tarhan, A. Tibet and E. Konyar, 335-344. Istanbul: Sadberk Hanım Müzesi.
- Koşay, H.Z. 1976. "Keban Project Pulur Excavations 1968-1970". *METU, Keban Project Publications Series, III, 1*. Ankara: Middle East Technical University.

- Koşay, H.Z. and M. Akok. 1966. *Alaca Höyük Kazısı. 1940-1948 Deki Çalışmalara ve Keşiflere ait Ilk Rapor Ausgrabungen von Alaca Höyük. Vorbericht Über die Forschungen und Entdeckungen von 1940-1948*. Ankara: Türk Tarih Kurumu Basımevı.
- ———. 1973. Alaca Höyük Kazısı. 1963-1967 Çalışmalara ve Keşiflere ait Ilk Rapor Alaca Höyük Excavations. Preliminary Report on Research and Discoveries 1963-1967. Ankara: Türk Tarih Kurumu Basımevı.
- Kozbe, G. 2007a. "Şırnak İli Cizre-Silopi Ovası Yüzey Araştirması, 2005". *Araştirma Sonuçları Toplantısı*, 1:307-326.
- ———. 2007b. "Kavuşan Höyük 2005". *Kazı Sonuçları Toplantısı*, 28 (1):573-588.
- ——. 2010. "Kavuşan Höyük Kazısı, 2008". *Kazı Sonuçları Toplantissi*, 31 (3):173-196.
- ———. 2013. "Excavations at Diyarbakır/Kavuşan Höyük 2005-2006". In *The Ilısu Dam Project an HEP Project Excavations. Seasons 2004-2008*, 356-400. Diyarbakır: Diyarbakır Museum.
- Kozbe, G., K. Köroğlu and H. Sağlamtimur. 2004. "2001 Excavations at Kavuşan Höyük". In *Salvage Project of the Archaeological Heritage of the Ilısu and Carchemish Dam Reservoirs Activities in 2001* edited by T. Numan, J. Greenhalgh and J. Velibeyoğlu, 463-504. Ankara: Middle East Technical University.
- Kozbe, G. and K. Köroğlu. 2011. "2002 Excavations at Kavuşan Höyük. In *Salvage Project of the Archaeological Heritage of the Ilisu and Carchemish Dam Reservoirs Activities in 2002* edited by T. Numan, and D. Owen, 623-652. Ankara: Middle East Technical University.
- Kühne, H. 1976. "Die Keramik vom Tell Khuera und ihre beziehungen zu funden aus Syrien-Palästina, der Türkei und dem Iraq". *Vorderasiatische Forschungen der max Freiherr von-Oppenheim-Stiftung*, 1. Berlin: Gebrüder Mann Verlag.
- Kulakoğlu, F. and S. Kangal, eds. 2010. "Anatolia's Prologue: Kültepe Kanesh Karum". *Kayseri Metropolitan Municipality Cultural Publication*, 78. Istanbul, Avrupa Kültür Başkenti.
- Laneri, N. and A.T. Ökse. 2015. "Along the Northern Mesopotamian Frontier. The Upper Tigris Region and its Surrounding Regions During the Early Bronze Age (3100–2000 BCE)". *The European Archaeologist*, 43:68-71.
- Lebeau, M. 2000. "Stratified Archaeological Evidence and Compared Periodization in the Syrian Jezirah during the Third Millennium BC". In *Chronologies des Pays du Caucase et de l'Euphrate aux IVe-IIIe millénaires / From the Euphrates to the Caucasus: Chronologies for the 4th-3rd Millennium BC / Vom Euphrat in den Kaukasus: Vergleichende Chronologie des 4. und 3. Jahrtausends v. Chr.* edited by C. Marro and H. Hauptmann, 167-192. Varia Anatolica, 11. Paris: De Boccard.
- Lebeau, M. ed. 2014. Arcane Interregional. Ceramics. Vol. I. Turnhout: Brepols.
- Lehner, J.W. and K.A. Yener. 2014. "Organization and Specialization of Early Mining and Metallurgy in Anatolia". In *Archaeometallurgy in Global Perspectives* edited by B. Roberts and C. Thornton, 529-558. New York: Springer.
- Liverani, M. 1988. Antico Oriente: storia, società, economia. Rome/Bari: Laterza.
- Lloyd, S. 1940. "Iraq Government Sounding at Sinjar". Iraq, 7:13-21.
- Maidman, M.P. 2010. *Nuzi Texts and Their Uses as Historical Evidence*. Atlanta: Society of Biblical Literature.
- Mallowan, M.E.L. 1936. "Excavations at Chagar Bazar and an Archaeological Survey of the Habur Region of North Syria 1934-5". *Iraq*, 1 (3):1-85.
- ——. 1937. "Excavations at Tall Chagar Bazar and an Archaeological Survey of the Habur Region, Second Campaign 1936". *Iraq*, 2 (4):91-177.

- ——. 1946. "Excavation in the Balih Valley, 1938". *Iraq*, 8:111-159.
- ——. 1947. "Excavations at Brak and Chagar Bazar". *Iraq*, 9:1-259.
- Marchetti, N. 2000. La coroplastica siriana nell'età del Bronzo Medio: studio cronologico e tipologico delle produzioni fittili paleosiriane sulla base dei materiali di Tell Mardikh/Ebla, scavi 1964-1980. Materiali e Studi Archeologici di Ebla, 5. Rome: Rome University Press.
- Margueron, J.C. 1975. "Quatre campagnes de fouilles a Emar (1972-1974): un bilan provisoire". *Syria*, 52:53-85.
- Marro, C. and H. Hauptmann, eds. 2000. Chronologies des Pays du Caucase et de l'Euphrate aux IVe-IIIe millénaires / From the Euphrates to the Caucasus: Chronologies for the 4th-3rd Millennium BC / Vom Euphrat in den Kaukasus: Vergleichende Chronologie des 4. und 3. Jahrtausends v. Chr. Varia Anatolica, 11. Paris: De Boccard.
- Matney, T. 1998. "The First Season of Work at Ziyaret Tepe in Diyarbakır Province: Preliminary Report". *Anatolica*, 24:7-30.
- ———. 2011. "The Iron Age of Southeastern Anatolia". In *The Oxford Handbook of Ancient Anatolia,* 10,000-323 B.C.E edited by S.R. Steadman and G. McMahon, 443-463. Oxford: Oxford University Press.
- Matney, T. and L. Somers. 1999. "The Second Season of Work at Ziyaret Tepe in the Diyarbakır Province: Preliminary Report". *Anatolica*, 25:203-219.
- Matney T., M. Roaf, J. MacGinnis and H. McDonald. 2002. "2002 Archaeological Excavations at Ziyaret Tepe, 2000 and 2001". *Anatolica*, 28:47-89.
- Matney, T., L. Rainville, T. Demko, S. Kayser, K. Köroğlu, H. McDonald, J. McGinnis, K. Nicoll, S. Parpola, M. Reimann, M. Roaf, P. Schmidt and J. Szuchman 2005. "2005 Archaeological Investigations at Ziyaret Tepe, 2003-2004". *Anatolica*, 31:19-68.
- Matney, T., L. Rainville, K. Köroglu, A. Keskin, T. Vorderstrasse, N.Ö. Fındık and A. Donkin. 2007. "Report on excavation at Ziyaret tepe, 2006 season". *Anatolica*, 33:23-74.
- Matney, T, T. Greenfield, B. Hartenberger, A. Keskin, K. Köroglu, J. MacGinnis, W. Monroe, L. Rainville, M. Shepperson, T. Vorderstrasse and D. Wicke. 2009. "Excavations at Ziyaret Tepe 2007-2008". *Anatolica*, 35:37-84.
- Matney, T., T. Greenfield, B. Hartenberger, C. Jalbrzikowski, K. Köroglu, J. MacGinnis, A. Marsh, W, Monroe, M. Rosenzweig, K. Sauer and D. Wicke. 2011. "Excavations at Ziyaret Tepe, Diyarbakır Province, Turkey, 2009-2010 Seasons". *Anatolica*, 37:67-114.
- Matthews, R. 2003a. Excavations at Tell Brak. Vol. 4. Exploring an Upper Mesopotamian Regional Centre, 1994-1996. McDonald Institute for Archaeological Research. Cambridge: British School of Archaeology in Iraq.
- ———. 2003b. "Traces of Early Complexity. Late Fifth- to Early Fourth-millennia Investigations: the Early Northern Uruk Period". In *Excavations at Tell Brak. Vol 4: Exploring an Upper Mesopotamian Regional Centre, 1994-1996* edited by R. Matthews, 25-51. McDonald Institute for Archaeological Research. Cambridge: British School of Archaeology in Iraq.
- Maxwell-Hyslop, K.R. 1949. "Western Asiatic Shaft-hole Axes". *Iraq* 11:90-129.
- Mazzoni, S. 1992. *Le impronte su giara eblaite e siriane nel Bronzo Antico*. Materiali e Studi Archeologici di Ebla, 1. Rome: Rome University Press.
- ——. 1993. "Cylinder Seal Impressions on Jars at Ebla: New Evidence". In *Aspects of Art and Iconography: Anatolia and Its Neighbors; Studies in Honor of Nimet Özgüç* edited by M. Mellink, E. Porada and T. Özgüç, 399-414. Ankara: Türk Tarih Kurumu Basimevi.
- ——. 2013. "Centralization and Redistribution. The Pottery Assemblage of Royal Palace G". In Ebla

- and its landscape: Early state formation in the ancient Near Eastedited by P. Matthiae and N. Marchetti, 89-110. Walnut Creek, California: Left Coast Press.
- Mazzoni, S., P. Del Vesco, S. Soldi, P. D'Amore, M. Repiccioli, D. Giannessi, G. Aletta, G. Scandone Matthiae, F. Virgilio, E. Scigliuzzo, A. Maggioli, C. Felli, E. Merluzzi, F. Venturi, T. Pedrazzi, C. Bigazzi, I. Oggiano, S.M. Cecchini, G. Magazzù and B. Wilkens. 2002. "Tell Afis (Siria) 2000-2001". *Egitto e Vicino Oriente*, 25:5-108.
- McAdam, E. and H.S. Mynors. 1988. "Tell Rubeidheh: Pottery from the Uruk Mound". In *Tell Rubeidheh, an Uruk Village in the Jebel Hamrin* edited by R. Killick, 39-76. Baghdad: British School of Archaeology in Iraq.
- McClellan, T. 2007. "Late Bronze Age Pottery from the Upper Euphrates". In *Céramique de l'âge du Bronze en Syrie, II. L'Euphrate et la région de Jézireh* edited by Al-Maqdissi, M., V. Matoian and C. Nicolle, 53-76. Bibliothèque archéologique et historique, 180. Beyrouth: Institute français de Proche-Orient.
- McMahon, A. and J. Oates. 2007. "Excavations at Tell Brak 2006-2007". Iraq, 69:145-171.
- McMahon, A., C. Colantoni, J. Frane and A. Soltysiak. 2009. *Once There Was a Place: Settlement Archaeology at Chagar Bazar, 1999–2002*. British Institute for the Study of Iraq. Exeter: Short Run Press.
- McMahon, A., Ö. Tunca and A.-M. Bagdo. 2001. "New Excavations at Chagar Bazar, 1999-2000". *Iraq*, 63:201-222.
- Meyer, J-W. and A. Pruss. 1994. *Kleinfunde von Tell Halawa*. Saarbrücken: Saarbrücker Druckerai und Verlag.
- Moorey, P.R.S. 1999. Ancient *Mesopotamian Materials and Industries: The Archaeological Evidence*. Winona Lake: Eisenbrauns.
- ——. 2003. *Idols of the People: Miniature Images of Clay in the Ancient Near East*. Oxford: Oxford University Press.
- Muhly, J.D. 2011. "Metals and Metallurgy". In *The Oxford Handbook of Ancient Anatolia*, 10,000-323 B.C.E edited by S.R. Steadman and G. McMahon, 858-876. Oxford: Oxford University Press.
- Müller-Karpe, A. 1994. Altanatolisches Metallhandwerk. Neumünster: Wachholtz Verlag.
- Nadeau, M.-J., M. Schleicher, P.M. Grootes, H. Erlenkeuser, A. Gottdang, D.J.W. Mous, J.M. Sarnthein and H. Willkomm. 1997. "The Leibniz-Labor AMS facility at the Christian-Albrechts-University, Kiel, Germany". In *Nuclear Instruments and Methods in Physics Research*, 22-30.
- Nadeau, M.-J., P.M. Grootes, M. Schleicher, P. Hasselberg, A. Rieck and M. Bitterling. 1998. "Sample Throughout and Data Quality at the Leibniz-Labor AMS facility". *Radiocarbon* 40 (1):239-246.
- Neufang, B. and A. Pruß. 1994. "Wagenmodelle". In *Die Kleinfunde von Tell Halawa A* edited by J.W Meyer and A. Pruß, 156-180. Saarbrücken: Saarbrücker Druckerei und Verlag.
- Nissen, H. J. 1970. "Grabung in den Quadraten K/L XII in Uruk-Warka". *Baghdader Mitteilungen*, 5:101-191.
- Novak, M. 2013. "Upper Mesopotamia in the Mittani Period". In *Schriften zur Vorderasiatischen archäologie (band 1,1). Archeologie et Histoire de la Syrie I, La Syrie de l'epoque neolithique a l'age du fer* edited by W. Orthmann, P. Matthiae and M. Al Maqdissi, 345-357. Wiesbaden: Harrassowitz Verlag.
- Oates, D. 1985. "Tell Brak: Excavations at Tell Brak, 1983-1984". Iraq, 47:159-173.
- Oates, J. 1985. "Tell Brak: Uruk Pottery from the 1984 Season". Iraq, 47:175-186.
- ———. 1997. "Chapter 2. The Pottery". In *The Excavations at Tell al Rimah: The Pottery* edited by D. Oates and J. Oates, 51-59. Iraq Archaeological Reports, 4. London: British School of Archaeology in Iraq.

- Oates, D. and J. Oates. 1993. "Excavations at Tell Brak 1992-93". Iraq, 55:155-199.
- Oates, D., Oates, J. and H. McDonald, eds. 1997. Excavations at Tell Brak, vol 1: the Mitanni and Old Babylonian Periods. Mcdonalds Institute Monographs. Cambridge/London: British School of Archaeology in Iraq.
- ———, eds. 2001. *Excavations at Tell Brak, vol 2: Nagar in the Third Millennium*. Mcdonalds Institute Monographs. Cambridge/London: British School of Archaeology in Iraq.
- Oguchi, H. 1997a. "Trade Routes in the old Assyrian Period". Al Rafidan, 20:85-106.
- ——. 1997b. "A Reassessment of the Distribution of Khabur Ware: an Approach from an Aspect of its Main Phase". *Al Rafidan*, 18:195-224.
- ——. 1998. "Notes on Khabur Ware from Sites Outside its Main Distribution zone". *Al Rafidan*, 19:119-133.
- ——. 2000. "The 'Late' Khabur Ware problem once again". Al Rafidan 21:103-126.
- 2014. "The distribution of Nuzi Ware and its Implication". In *Arkeolojiyle Geçen Bir Yaşam İçin Yazılar Veli Sevin'e Armağan, SCRIPTA Essays in Honour of Veli Sevin. A Life Immersed in Archaeology* edited by A. Özfirat, 215-232. Istanbul: Ege Yayınları.
- Ökse, A.T. 1999, "Gre Virike. Research in 1998" in *Salvage Project of the Archaeological Heritage of the Ilisu and Carchemish Dam Reservoirs, Activities in 1998* edited by N.Tuna and J. Öztürk, 119-155. Ankara: Middle East Technical University.
- ——. "Excavations at Gre Virike 2000". In *Salvage Project of the Archaeological Heritage of the Ilisu and Carchemish Dam Reservoirs, Activities in 2000* edited by N. Tuna and J. Velibeyoğlu, 241-285. Ankara: Middle East Technical University.
- ———. 2008. "Archaeology Affected by the Ilisu Dam in Turkey". *Antiquity*, 82:317. http://www.antiquity.ac.uk/projgall/okse317.
- ———. 2011. "The Early Bronze Age in Southeastern Anatolia". In *The Oxford Handbook of Ancient Anatolia*, 10,000-323 B.C.E edited by S.R. Steadman and G. McMahon, 260-289. Oxford: Oxford University Press.
- ——. 2014. "Salat Tepe'de Akkad Dönemine ait bir Kırsal Tapınak, Haberler". *Ocak*, 37:43-45.
- Ökse, A.T., A.O. Alp, H.U. Dağ, A. Engin, A. Görmüş and G. Mustafaoğl. 2001. "Salat Tepe, 1999 Survey". In *Salvage Project of the Archaeological Heritage of the Ilisu and Carchemish Dam Reservoirs, Activities in 1999* edited by N. Tuna, J. Öztürk and J. Velibeyoğlu, 620-670. Ankara: Middle East Technical University.
- Okse, A.T. and A.O. Alp. 2002. "2000 Excavation at Salat Tepe". In *Salvage Project of the Archaeological Heritage of the Ilisu and Carchemish Dam Reservoirs, Activities in 2000* edited by N. Tuna and J. Velibeyoğlu, 645-670. Ankara, TAÇDAM.
- Ökse A.T. and A. Görmüş. 2006. "Excavations at Salat Tepe in the Upper Tigris Region: Stratigraphical Sequence and Preliminary Results of the 2005-2006 Seasons". *Akkadica*, 127 (2):167-198.
- ———. 2009. "Nomadic Way of Life in the Early Iron Age: A Study on the Evidence from Salat Tepe in the Upper Tigris Region". In *Proceedings of the XII. Symposium on Mediterranean Archaeology, Famagusta, North Cyprus, 5-8.04.2008* edited by H. Oniz, 165-172. British Archaeological Reports, International Series 1909. Oxford: Archaeopress.
- . 2013a. "Salat Tepe, 2005-2008 Excavations". In *The Ilisu Dam Project and HEP Project Excavations*. *Seasons 2004-2008*, 177-210. Diyarbakır: Diyarbakır Museum.
- ——. 2013b. "Mesopotamian Chalcolithic Cultures in the Upper Tigris Region: a Case Study of Salat Tepe and its Environment". In SOMA 2010. Proceedings of 14th Symposium on Mediterranean Archaeology, Taras Shevchenko National University of Kiev, Ukraine, 23-25 April 2010 edited by Y.

- Morozova and H. Oniz, 133-146. British Archaeological Reports, International Series 2555. Oxford: Archeopress.
- Opificius, R. 1961. Das altbabylonische Terrakottarelief. Untersuchungen zur Assyriogie und Vorderasiatischen Archäologie, 2. Berlin: De Gruyter.
- Orsi, V. 2011. Crisi e rigenerazione nella valle dell'Alto Khabur (Siria), La Produzione ceramica nel passaggio dal Bronzo Antico al Bronzo Medio. Florence: University of Florence Press.
- Ozdoğan, M. 2008. "Obisidan in the context of Near Eastern Prehistory". Anatolian Metal, 4:191-201.
- Özfirat, A. 2002. "Khabur Ware from Hakkari". Ancient Near Eastern Studies, 22:141-151.
- ——. 2005. Üçtepe II. Tunç Çağları: Kazı ve Yüzey Araştırması İşığında. İstanbul: Ege Yayınları.
- Özgüç, T. 1955. "Report on a Workshop Belonging to the Late Phase of the Colony Period (Ib)". *Belleten*, 19:77-88.
- . 1959. Kültepe-Kanish. Aşur Ticaret Kolonilerinin Merkezinde Yapılan Yeni Araştırmala / New Researches at the Center of the Assyrian Trade Colonies. Türk Tarih Kurumu Yayınları V/19. Ankara: Türk Tarih Kurumu Basimevi.
- . 1986. Kültepe-Kaniş II. Eski Yakındoğu nun Ticaret Merkezinde Yeni Araştırmalar / New Researches at the Trading Center of the Ancient Near East. Türk Tarih Kurumu Yayınları V/41. Ankara: Türk Tarih Kurumu Basimevi.
- . 1999a. *Kultepe-Kaniš/Neša. Sarayları ve mabetleri*. Ankara: Türk Tarih Kurumu Basımevi.
- ——. 1999b. *The Palaces and Temples of Kültepe-Kaniš/Neša*. Ankara: Türk Tarih Kurumu.
- . 2003. Kültepe-Kaniš/Neša. The Earliest International Trade Center and the Oldest Capital City of the Hittites. Istanbul: Middle Eastern Culture Center in Japan.
- Palmieri, A. 1967. "Insediamento del Bronzo Antico a Gelinciktepe". Origini, 1:117-193.
- Parker, B.J. and A. Creekmore. 2002. "The Upper Tigris Archaeological Research Project: A Final Report from the 1999 Field Season". *Anatolian Studies* 52:19-74.
- Parker, B.J. and L.S. Dodd. 2003. "The Early Second Millennium Ceramic Assemblage from Kenan Tepe, Southeastern Turkey. A Preliminary Assessment". *Anatolian Studies*, 53:33-70.
- ——. 2005. "The Upper Tigris Archaeological Research Project. A Preliminary Report from the 2002 Field Season". *Anatolica*, 31:69-110.
- ———. 2011. "Year 2002 Taçdam Report: The Upper Tigris Archaeological Research Project: An Overview of the 2002 Excavations at Kenan Tepe". In *Salvage Project of the Archaeological Heritage of the Ilisu and Carchemish Dam Reservoirs. Activities in 2002* edited by N. Tuna and O. Doonan, 1-30. Ankara: Middle East Technical University.
- Parker, B.J., Foster, C.P. 2009. "An Overview of The Ceramic Sequence At Kenan Tepe". In *Studies in Honour of Altan Cilingiroglu. A Life Dedicated to Urartu on the Shores of the Upper Sea* edited by H. Sağlamtimur, E. Abay, Z. Derin, A.Ü. Erdem, A. Batmaz, F. Dedelioğlu, M. Erdalkıran, M.B. Baştürk and E. Konakçı, 425-51. Istanbul: Istanbul Arkeoloji ve Sanat Yayınları.
- Parker, B.J. and A. Creekmore, L.S. Dodd, C. Meegan, E. Moseman, R. Paine, M. Abraham and P. Cobb. 2003. "The Upper Tigris Archaeological Research Project (UTARP): a Preliminary Report from the 2001 Field Season". *Anatolica*, 29:103-174.
- Parker, B.J., A. Creekmore, L.S. Dodd, E. Moseman, C. Meegan and P. Cobb. 2004 "The Upper Tigris Archaeological Research Project (UTARP): a Preliminary Synthesis of the Cultural History of Kenan Tepe". In *Salvage Project of the Archaeological Heritage of the Ilisu and Carchemish Dam Reservoirs, Activities in 2001* edited by N. Tuna, J. Greenhalg and J. Velibeyoğlu, 547-602. Ankara: Middle East Technical University.

- Parker, B.J., C.P. Foster, J. Henecke, M. Hopwood, D. Hopwood, A, Creekmore, A. Demirergi and M. Eppihimer. 2008. "A Preliminary Report from the 2005 and 2006 Field Seasons at Kenan Tepe". *Anatolica*, 34:103-176.
- Pearce, J.A. 2000. "The Late Chalcolithic Sequence at Hacinebi Tepe, Turkey". In *Chronologies des pays du Caucase et de l'Euphrate aux IV-III millenaries* edited by C. Marro and H. Hauptmann, 115-144. Varia Anatolica, 11. Paris: De Boccard.
- Peasnall, B.L. and G. Algaze. 2010. "The Survey at Pir Hüseyin, 2004". Anatolica, 36:165-195.
- Pecorella P.E. 1998. "L'area G di Tell Barri/Kahat: 1983-1993". In *Tell Barri/Kahat 2. Relazioni sulle campagne 1980-1993 a Tell Barri/Kahat, nel bacino del Habur (Siria)* edited by P.E. Pecorella, 78-132. Rome: Consiglio Nazionale delle Ricerche.
- Peyronel, L. 2004. Gli Strumenti di tessitura dall'Età del Bronzo all'epoca Persiana. Materiali e Studi Archeologici di Ebla IV. Rome: Rome University Press.
- ———. 2007. "Spinning and Weaving at Tell Mardikh-Ebla (Syria). Some Observations Spindle-Whorls and Loom-Weights from the Bronze and Iron Age". In *Ancient Textiles: Production, Craft and Society: Proceedings of the First International Conference on Ancient Textiles, Held at Lund, Sweden, and Copenhagen, Denmark, on March 19-23, 2003* edited by C. Gillis and M-L. Nosch, 26-35. Oxford: Oxbow Books.
- . 2008. Storia e archeologia del commercio nell'Oriente antico. Rome: Carocci Editore.
- Pfaffenberger, B. 1992. "Social Anthropology of Technology". *Annual Review of Anthropology*, 21:491-516.
- Pfälzner, P. 1995. Mittanische und Mittelassyrische Keramik: eine chronologische, funktionale und produtionsökonomische Analyse. Berlin: Reimer Verlag.
- 2007. "The Late Bronze Age Ceramic Traditions of the Syrian Jazirah". In *Céramique de l'âge du Bronze en Syrie, II. L'Euphrate et la région de Jézireh* edited by M. Al-Maqdissi, V. Matoian and C. Nicolle, 110-135. Bibliothèque archéologique et historique, 180. Beyrouth: Institute français de Proche-Orient.
- Pollock, S. and C. Coursey. 1995. "Ceramics from Hacinebi Tepe: Chronology and Connections". *Anatolica*, 21:101-141.
- Porada, E. 1965. "The Relative Chronology of Mesopotamia. Part. I. Seals and Trade (6000-1600 B.C.)". In *Chronologies in Old World Archaeology* edited by R.W. Ehrich, 133-181. Chicago: Chicago University Press.
- Postgate, J.N. ed. 2002. *Artefacts of Complexity: Tracking the Uruk in the Near East*. Iraq Archaeological Reports, 5. Warminster: Aris and Phillips.
- Postgate, C., J. Oates and D. Oates. 1997. *The Excavation at Tell al-Rimah: The Pottery*. Iraq Archaeological Reports, 4. Warminster: Aris and Phillips.
- Pruß, A. 2011. "Figurines and Model Vehicles". In *Jezirah, ARCANE: Associated Regional Chronologies* for the Ancient Near East and the Eastern Mediterranean: Vol. 1 edited by M. Lebeau, 239-254.. Turnhout: Brepols
- ———. 2015. "Animal Terracotta Figurines and Model Vehicles". In *Middle Euphrates, ARCANE: Associated regional chronologies for the ancient Near East and the Eastern Mediterranean: Vol. 4* edited by U. Finkbeiner, M. Novák and P. Sconzo, 279-295. Turnhout: Brepols.
- Pulhan, G. and S.R. Blaylock. 2013. "New Excavations at the Late Bronze Age and Iron Age site of Gre Amer on the Garzan river, Batman province". In *Across the border: Late Bronze-Iron Age relations between Syria and Anatolia* edited by K.A. Yener, 393-419. Leuven/Paris: Peeters.
- -----. forthcoming. "Gre Amer, Batman, on the Upper Tigris: A Rescue Project in the Ilisu Dam Reser-

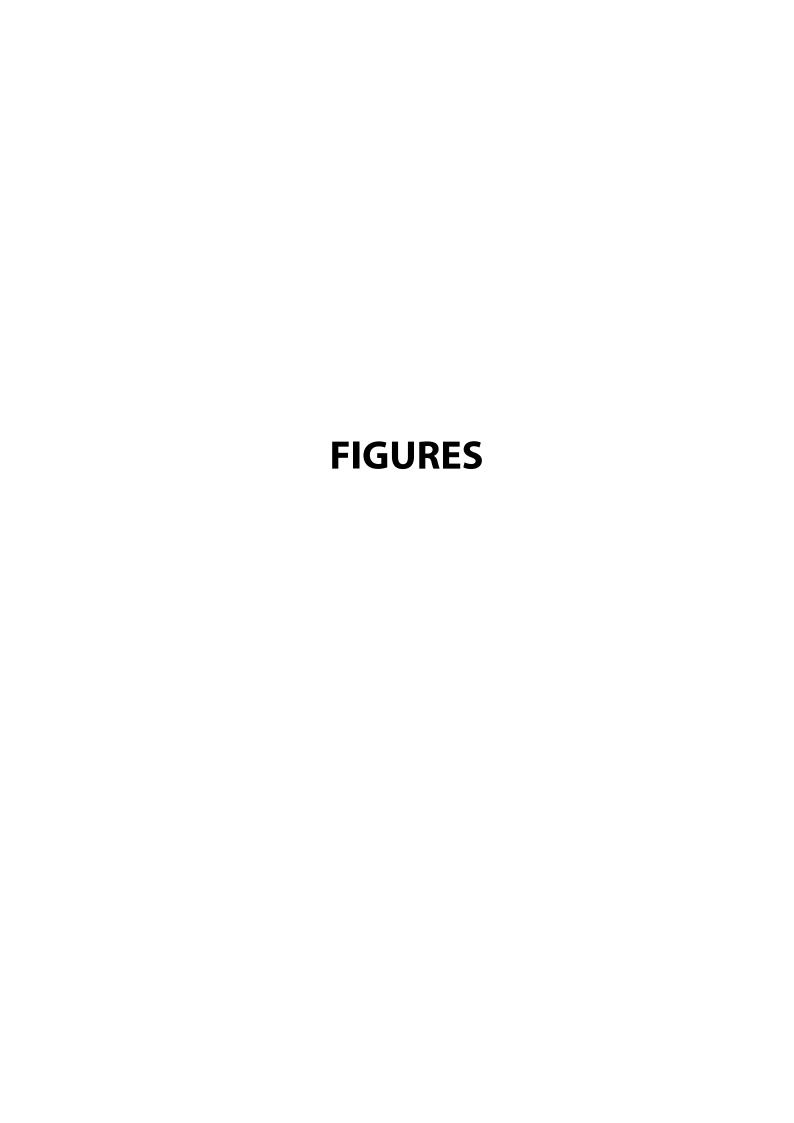
- voir in Turkey". In Archaeological Research in the Kurdistan Region of Iraq and the adjacent areas edited by J. MacGinnis and K. Kopanias. Oxford: Archaeopress.
- Raccidi, M. 2012. "Chariot Terracotta Models from Tell Arbid and Tell Barri. A Typological and Functional Analysis". In *Proceedings of the VIIth International Congress on the Archaeology of the Ancient Near East. Vol. 3* edited by R. Matthews and J. Curtis, 673–682. Berlin: Harrassowitz Verlag.
- Radner, K. ed. 2004. Das mittelassyrische Tontafelarchiv von Giricano/Dunnu- s´a- Uzibi. Ausgrabungen in Giricano I (=Subartu, 14). Turnhout: Brepols.
- Radner K. and A. Shachner. 2001. "From Tušhan to Amēdi: Topographical Questions concerning the Upper Tigri Region in the Assyrian Period". In *Salvage Project of the Archaeological Heritage of the Ilisu and Carchemish Dam Reservoirs, Activities in 1999* edited by N. Tuna, J. Öztürk and J. Velibeyoğlu, 729-776. Ankara: Middle East Technical University.
- Rapp, G.R. 2009. Archaeomineralogy. Berlin: Springer, 2009.
- Robinson, R. 1985. "Tobacco Pipes of Corinth and of the Athenian Agora". Hesperia, 54:149-203.
- Rosen, S. 2013. "Arrowheads, Axes, Ad Hoc, and Sickles: An Introduction to Aspects of Lithic Variability Across the Near East in the Bronze and Iron Ages". *Lithic Technology*, 38 (3):141-149.
- Rothman, M.S. 1988. *Centralization, Administration and Function at Fourth Millennium B.C. Tepe Gawra*. Unpublished Doctoral Thesis, University of Pennsylvania.
- ———, ed. 2001. *Uruk Mesopotamia and its Neighbors: Cross-cultural Interactions in the Era of State Formation*. Santa Fe: SAR Press.
- ———. 2002a. *Tepe Gawra: The Evolution of a Small Prehistoric Center in Northern Iraq*. Philadelphia: University of Pennsylvania-Museum Publications.
- ———. 2002b. "Tepe Gawra: Chronology and Socio-Economic Change in the Foothills of Northern Iraq in the Era of State Formation". In *Artefacts of Complexity: Tracking the Uruk in the Near East* edited by J.N. Postgate, 49-77. Iraq Archaeological Reports, 5. Warminster: Aris and Phillips.
- Rova, E. 1999-2000. "A Tentative Synchronisation of the Local Late Chalcolithic Ceramic Horizons of Northern Syro-Mesopotamia". *Mesopotamia*, 34/35:175-199.
- 2011. "Pottery". In Jezirah, ARCANE: Associated Regional Chronologies for the Ancient Near East and the Eastern Mediterranean: Vol. 1 edited by M. Lebeau, 49-121. Turnhout: Brepols.
- Philip, G. 1989. *Metal Weapons of the Early and Middle Bronze Ages in Syria-Palestine, Vol. 1.* British Archaeological Reports, International Series 526. Oxford: Archeopress.
- ———. 1997. "The Metal Objects". In *Excavations at Tell Brak, vol 1: the Mitanni and Old Babylonian Periods* edited by D. Oates, Oates, J. and H. McDonald, 113-124. Mcdonalds Institute Monographs. Cambridge/London: British School of Archaeology in Iraq.
- Sağlamtimur, H. and A. Ozan. 2007. "Siirt-Türbe Höyük Kazısı Ön Rapor". Arkeoloji Dergisi, 10:1-31.
- Sağlamtimur H. and E. Kalkan. 2015. "Late Chalcolithic Pottery Assemblage from Başur Höyük". *Arkeoloji Dergisi*, 10:57-88.
- Sagona, A. and C. Sagona. 2004. "Archaeology at the North-East Anatolian Frontier I: an Historical Geography and a Field Survey in the Bayburt Province". *Ancient Near Eastern Studies*, 14.
- Schachner A. 2002a. "2000 Yılı Giricano Kazıları ön raporu". In *Salvage Project of the Archaeological Heritage of the Ilisu and Carchemish Dam Reservoirs, Activities in 2000* edited by N. Tuna and J. Velibeyoğlu, 549-611. Ankara: Middle East Technical University.
- 2002b. "Ausgrabungen in Giricano (2000-2001). Neue Forschungen an der Nordgrenze des mesopotamischen Kulturraums. Mit Beiträgen von Peter V. Bartl und Joseph Heigermoser." Istanbuler Mitteilungen, 52:9-57.

- 2004. "Die mittelassyrischen Siedlungsschichten von Giricano." In *Das mittelassyrische Tonta-felarchiv von Giricano/Dunnu-s a-Uzibi. Ausgrabungen in Giricano 1*, (=Subartu, 14) edited by K. Radner, 1-13. Turnhout: Brepols.
- Schaeffer, C.F.A., ed. 1962. Ugaritica IV. Bibliothèque archéologique et historique, 74. Paris: Geuthner.
- Schmidt, E.F. 1932. *The Alishar Höyük: Seasons of 1928 and 1929. Part 1.* Chicago: The University of Chicago Press.
- Schmidt, K. 2002. Norşuntepe. Kleinfunde II. Artefakte aus Felsgestein, Knochenund Geweih, Ton, Metallund Glas. Mainz/Rhein: Zabern Verlag.
- Schwartz, G.M. 1988a. *A Ceramic Chronology from Tell Leilan: Operation 1. (Yale Tell Leilan Research I)*. New Haven: Yale University Press.
- ———. 1988b. "Excavations at Karatut Mevkii and Perspectives on the Uruk/Jemdet Nasr Expansion". *Akkadica*, 56:1-41.
- ———. 2001. "Syria and the Uruk Expansion". In *Uruk Mesopotamia and its Neighbors: Cross-cultural Interactions in the Era of State Formation* edited by M.S. Rothman, 233-264. Santa Fe: SAR Press.
- Şenyurt, A.Y. 2002. "Excavations at Aşağı Salat, 2000". In *Salvage Project of the Archaeological Heritage* of the Ilisu and Carchemish Dam Reservoirs, Activities in 2000 edited by N. Tuna and J. Velibeyoğlu, 671-697. Ankara: Middle East Technical University.
- Sevin, V. 1987. "Imikuşaği kazıları". Kazı Sonuçları Toplantısı, 9 (1):299-333.
- . 1990. "1988 Yılı Diyarbakır/Üctepe Kazısı". Kazı Sonuçları Toplantısı, 11 (1):103-123.
- Shamir, O. 1996. "Loomweights and Whorls". In *Excavations at The City of David 1978-85 IV* edited by D.T. Ariel and A. de Groot, 135-170. Jerusalem: Institute of Archaeology of the Hebrew University.
- Simpson, St J. 2008. "Ottoman Clay Pipes from Jerusalem". In *Excavations by K.M. Kenyon in Jerusalem* 1961-1967. Volume V edited by K. Prag, 443-446. Oxford: Oxbow.
- 2013. "Smoking Across Iraq". In *Scritti in Memoria di Paolo Farina raccolti da Antonio Inverniz*zi. Mneme, Documenti, culture, storia del Mediterraneo e dell'Oriente Antico, 9, 251-278. Alessandria, Edizioni dell'Orso.
- Smogorzewska, A. 2004. "Andirons and their Role in Early Transcaucasian Culture." *Anatolica*, 30:151-177.
- Soldi, S. 2006. "La ceramica dipinta nella Siria e Mesopotamia settentrionali tra Bronzo Medio e Bronzo Tardo: considerazioni sull'origine e lo sviluppo della ceramica di Nuzi". In *Agogè, Atti della scuola di specializzazione in Archeologia*, 81-97. Pisa: Pisa University Press.
- ——. 2008. "Recent Considerations about the origin of "Nuzi Ware" in the light of its archaeological contexts". In *Proceedings of the IVth International Congress of the Archaeology of the Ancient Near East, 29 March 3 April 2004, Freie Universität Berlin. Vol. 2* edited by H. Kuhne, R.M. Czichon and F.J. Kreppner, 245-258. Wiesbaden: Harrassowitz Verlag.
- Speiser, E. A. 1932-1933. "The Pottery of Tell Billa". Museum Journal, 23 (2):249-283.
- Stein, D.L. 1984. "Khabur Ware and Nuzi Ware: Their Origin, Relationship, and Significance." *Assur*, 4 (1):1-65.
- Summers, G.D. 1993. "Archaeological Evidence for the Achaemenid Period in Eastern Turkey". *Anatolian Studies*, 43:85-108.
- Takaoğlu, T. 2000. "Hearth Structures in the Religious Pattern of Early Bronze Age, Northeast Anatolia". *Anatolian Studies*, 50:11-14.
- Tobler, J. 1950. Excavations at Tepe Gawra, vol. II. Philadelphia: University of Pennsylvania Press.
- Trufelli, F. 1997. "Ceramic Correlations and Cultural Realations in IVth Millennium Eastern Anatolia and

- Syro-Mesopotamia". Studi Micenei ed Egeo-Anatolici, 39 (1):5-33.
- Tuna, N. and J. Öztürk, eds. 1999. Salvage Project of the Archaeological Heritage of the Ilisu and Carchemish Dam Reservoirs, Activities in 1998. Ankara: Middle East Technical University.
- Tuna, N., J. Öztürk and J. Velibeyoğlu, eds. 2001. Salvage Project of the Archaeological Heritage of the Ilisu and Carchemish Dam Reservoirs, Activities in 1999. Ankara: Middle East Technical University.
- Tuna, N. and J. Velibeyoğlu, eds. 2002. Salvage Project of the Archaeological Heritage of the Ilisu and Carchemish Dam Reservoirs, Activities in 2000. Ankara: Middle East Technical University.
- Tuna, N., J. Greenhalg and J. Velibeyoğlu, eds. 2004. *Salvage Project of the Archaeological Heritage of the Ilisu and Carchemish Dam Reservoirs, Activities in 2001*. Ankara: Middle East Technical University.
- Tuna, N. and O. Doonan, eds. 2011. Salvage Projects of the Archaeological Heritage of the Ilisu and Carchemish Dam Reservoirs Activities in 2002, Volume II. Ankara: Middle East Technical University.
- Tylecote, R.F. 1987. The Early History of Metallurgy in Europe. London: Addison-Wesley Longman.
- Ur, J.A. 2010. *Urbanism and Cultural Landscapes in Northeastern Syria: The Tell Hamoukar Survey,* 1999-2001. Oriental Institute Publications, 137. Chicago: The Oriental Institute Press.
- ———. 2011. "Ancient Landscapes in Southeastern Anatolia". In *The Oxford Handbook of Ancient Anatolia, 10,000-323 B.C.E* edited by S.R. Steadman and G. McMahon, 836-857. Oxford: Oxford University Press.
- Valentini, S. 2012. "Scavi di salvataggio a Kuriki Höyük (Turchia)". In *Studi di Archeologia del Vicino Oriente. Scritti degli allievi fiorentini per Paolo Emilio Pecorella* edited by S. Mazzoni, 275-298. Florence: Florence University Press.
- Van Bruinessen, M. 1988. "Economic Life in Diyarbekir in the 17th Century". In *Evliya Çelebi in Diyarbekir. Evliya Çelebi's book of travels: land and people of the Ottoman Empire in the seventeenth century. Vol. 1* edited by M. Van Bruinessen and H. Boeschoten, 36-44. Leiden: Brill.
- Van Loon, M.N. 1973. "The Excavations at Korucutepe, Turkey 1968-1970. Preliminary Report". *Journal of Near Eastern Studies*, 32 (4):357-423.
- ———. 1980a. Korucutepe. Final report on the excavations of the Universities of Chicago, California (Los Angeles) and Amsterdam in the Keban Reservoir, Eastern Anatolia, 1968-1970. Vol. 2. Oxford: North-Holland Publishing Company.
- ———. 1980b. Korucutepe. Final report on the excavations of the Universities of Chicago, California (Los Angeles) and Amsterdam in the Keban Reservoir, Eastern Anatolia, 1968-1970. Vol. 3. Oxford: North-Holland Publishing Company.
- Velibeyoğlu, J., A. Schachner and S. Schachner. 2002. "Botan Vadısı ve Çattepe (Tilli) Yuesy Araştırmalarının Ilk Sonunçları". In *Salvage Project of the Archaeological Heritage of the Ilısu and Carchemish Dam Reservoirs, Activities in 2000* edited by N. Tuna and J. Velibeyoğlu, 783-857. Ankara: Middle East Technical University.
- Von der Osten, H.H. 1937. *The Alishar Hüyük, Seasons of 1930-1932*. Researches in Anatolia, VII. Oriental Institute Publications, 29. Chicago: The Oriental Institute Press.
- Vordestrasse, T. and T. Matney. 2012. "Medieval remains at the Site of Ziyaret Tepe (Dıyarbakır Region) in Southeast Turkey". In *Proceedings of the VIth International Congress on the Archaeology of the Ancient Near East, Università* "La Sapienza" di Roma, May 5th-10th 2008. Vol. 3 edited by P. Matthiae, F. Pinnock, L. Nigro and N. Marchetti, 251-263. Wiesbaden: Harrassowitz Verlagen.
- Von Widecke, A. 1990. Prähistorische Stempelglyptik in Vorderasien. Münich: Profil Verlag.
- Wilkinson, T.J. and D.J. Tucker 1995. Settlement Development in the North Jazira, Iraq: A Study of the Archaeological Landscape. Iraq Archaeological Reports, 3. Warminster: British School of Archaeology in Iraq.

- Woolley, C.L. 1936. "Tal Atchana". Journal of Hellenic Studies, 56:125-134.
- —. 1938. "Excavation at Tell Atchana 1937". Antiquaries Journal, 18:1-28.
- ——. 1995. *Alalakh. An Account of the Excavations at Tell Atchana in the Hatay, 1937-1949.* London: Society of Antiquities.
- Wright, H.T. and E.S.A. Rupley. 2001. "Calibrated Radiocarbon Age Determinations of Uruk-Related Assemblages". In *Uruk Mesopotamia and its Neighbors: Cross-cultural Interactions in the Era of State Formation* edited by M.S. Rothman, 85-122. Santa Fe: SAR Press.
- Yener, K.A. 1995. "The Archaeology of Empire in Anatolia: Comments". *Bulletin of the American Schools of Oriental Research*, 299/300:117-121.
- ———. 2000. The Domestication of Metals: The Rise of Complex Metal Industries in Anatolia. Leiden: Brill.
- ———. 2007. "The Anatolian Middle Bronze Age Kingdoms and Alalakh: Mukish, Kanesh and Trade". *Anatolian Studies*, 57:151-161.
- Yener, K.A., E. Geçkinli and H. Özbal. 1996. "A Brief Survey of Anatolian Metallurgy prior to 500 B.C." In *Archaeometry 1994: Proceedings of the 29th International Symposium on Archaeometry* edited by Ş. Demirci, A.M. Özer and G.D. Summers, 375-391. Ankara: Tübitak.





Architecture Phases I, IIa, IIb, IIIa



6.1 — Ph. I pit with *in situ* material culture (Area B) viewed from east.

I. Pottery	

Notes to the Pottery Catalogue

Abbreviations used in the description of pottery:

Nr.: Sherd number to identify drawing in plate; **HM no.**: Hirbemerdon Tepe inventory number;

Ware: Pottery category;

Color: Reference to the Munsell Soil Colour Charts 2000;

Fabric: Lists sequence of inclusions from highest to lowest density. Definition of pottery categories listed following HM chronological phases:

PHASE I	
CFW	Chaff-Faced Ware
PHASES II A-B	
BBW	Buff Burnished Ware
CMW	Common Ware
CW	Cooking Ware
FW	Fine Ware
FIW	Fingernail Incised Ware
KW	Karaz Ware
MW	Metallic Ware
N	Ninivite 5
RBW	Red Burnished Ware
PHASE III A	
BBW	Buff Burnished Ware
CW	Cooking Ware
DROB	Dark Rimmed Orange Bowls
FW	Fine Ware
KW	Karaz Ware
RBWW	Red Brown Wash Ware
PHASE III B	
CMW	Common Ware
CW	Cooking Ware
GW	Gray Ware
KW	Khabur Ware
BPW	Band Painted Ware
RBWW	Red Brown Wash Ware
PHASE III C	
BBW	Buff Burnished Ware

COMW	Common Ware
CW	Cooking Ware
LKW	Late Khabur Ware
NW	Nuzi Ware
WW	White Ware
REB	Red Edged Bowl
PHASES IV A-B	
BPW	Brown/Pink Ware
CW	Cooking Ware
GRW	Grooved Ware
PW	Plain Ware
PHASE V	
COMW	Common Ware
GLW	Glazed Ware
IW	Incised Ware
PAW	Painted Ware
PHASES VI-VII	
CIW	Combed Incised Ware
COW	Common Ware
CRW	Cream Ware
GLW	Glazed Ware
GreenW	Green Common Ware

Phase I

Nr.	HM no.	Ware	Color (out)	Color (in)	Color (sec)	Fabric	Surface treatments
1	704	CFW	2.5YR 6/6 light red	2.5YR 6/6 light red	N/A	coarse, vegetal, grits, mica	
2	709	CFW	10YR 7/3 very pale brown	10YR 6/3 pale brown	N/A	medium, vegetal, grits, mica	low fired
3	492	CFW	2.5YR 6/6 light red	10R 6/8 light red	10YR 5/2 brown- ish	medium-coarse, vegetal, grits, mica	marks on the upper exterior wall (scraping marks)
4	706	CFW	10YR 8/3 very pale brown	10YR 8/3 very pale brown	N/A	coarse, vegetal, white grits	
5	687	CFW	7.5YR 6/3 light brown	5YR 7/4 pink	5YR 2.5/1 black	medium, vegetal, grits, mica	burnished
6	691	CFW	2.5YR 6/6 light red	2.5YR 6/6 light red	5YR 2.5/1 black	medium-coarse, vegetal, grits, mica	burnished
7	708	CFW	5YR 5/4 - 7/6 - 6/6 reddish brown	N/A	N/A	medium-coarse, vegetal, mica, grits	
8	6671	CFW	5YR 6/4 light reddish brown	N/A	N/A	medium-coarse, veg- etal, grits (granules), mica	marks on the exterior wall
9	696	CFW	2.5YR 6/8 light red; 2.5YR 5/8 red	5YR 6/6 reddish yellow	N/A	medium-coarse, veg- etal, grits (also small pebbles), mica	
10	665	CFW	5YR 6/4 light reddish brown	2.5YR 6/6 light red	10YR 5/2 brown- ish	medium-fine, mica, grits, vegetal	medium fired, smoothed
11	498	CFW	5YR 6/6 reddish yellow	7.5YR 6/3 light brown	N/A	medium-fine, vegetal, mica, quartz, sand	medium fired, smoothed
12	281	CFW	10YR 7/6 yellow	10YR 7/6 yellow	N/A		
13	496	CFW	N/A	N/A	N/A		
14	702	CFW	7.5YR 6/3 light brown	5YR 7/4 pink	5YR 5/1 gray	coarse, grits (small pebbles)	
15	499	CFW	5YR 6/4 light red- dish brown	7.5YR 6/3 light brown	N/A	coarse, vegetal, grits (small pebbles), mica	smooted surface, low fired
16	672	CFW	7.5YR 6/4 light brown	7.5YR 6/4 light brown	10YR 3/1 very dark gray	coarse, vegetal, grit, mica	
17	673	CFW	7.5YR 6/4 light brown; 7.5YR 5/4 brown	N/A	5YR 2.5/1 black	coarse, vegetal, grits (granules-small peb- bles), mica	
18	690	CFW	7.5YR 7/4 pink	7.5YR 7/4 pink	N/A	medium-coarse, veg- etal, grits (granules), mica	Exterior surface black smudged from fire

Nr.	HM no.	Ware	Color (out)	Color (in)	Color (sec) Fabric		Surface treatments	
19	692	CFW	2.5YR 6/6 light red; 2.5YR 5/6 red	2.5YR 6/6 - 7/6 light red	10YR 5/1 gray coarse, vegetal, grits			
20	661	CFW	5YR 5/4 reddish brown	2.5YR 6/6 light red	red 10YR 5/1 gray coarse, vegetal, grits (small pebbles)		marks on the upper body	
21	668	CFW	2.5YR 5/6 red	7.5YR 7/4 pink	10YR 5/2 brown- medium-coarse, v ish etal, grits (also sm pebbles), mica			
22	669	CFW	5YR 6/4 light red- dish brown	5YR 5/4 reddish brown	10YR 3/1 very dark gray	coarse, vegetal, grits (also small pebbles)		
23	666	CFW	2.5YR 6/6 - 6/8 light red	2.5YR 6/8 light red	7.5YR 5/1 gray	coarse, vegetal, grits (small pebbles)		
24	667	CFW	N/A	7.5YR 6/6 reddish yellow	N/A	coarse, vegetal, grits		
25	675	CFW	5YR 7/6 - 6/6 reddish yellow	5YR 7/6 - 6/6 reddish yellow	10YR 5/1 gray	medium-coarse, vegetal, mica		
26	685	CFW	5YR 6/4 light red- dish brown	5YR 5/4 reddish brown	10YR 5/1 gray	coarse, vegetal, grits (granules), mica		
27	683	CFW	7.5YR 6/4 light brown	7.5YR 6/4 light brown	7.5YR 7/1 light gray			
28	695	CFW	2.5YR 6/6 light red	2.5YR 5/6 red	N/A coarse, vegetal, grits (granules), mica			
29	701	CFW	7.5YR 7/3 pink	N/A	N/A coarse, vegetal, grits, mica			
30	700	CFW	5YR 6/6 reddish yellow	5YR 6/6 reddish yellow	5YR 2.5/1 black medium-coarse, vegetal, grits, mica		high fired, irregular marks on the interior	
31	705	CFW	7.5YR 6/4 light brown	7.5YR 7/3 pink	5YR 5/1 gray coarse, vegetal, grits (also small pebbles)		low fired	
32	678	CFW	7.5YR 5/3 brown	N/A	N/A coarse, vegetal, grits (small-medium peb-bles)			
33	684	CFW	5YR 6/4 light red- dish brown	7.5YR 4/2 brown	10YR 3/1 very coarse, vegetal, grits dark gray			
34	677	CFW	5YR 7/4 pink; 2.5YR 5/8 red	2.5YR 5/8 red	10 YR 5/1 gray coarse, vegetal, grits (also small pebbles)		low fired, smoothed	
35	686	CFW	10YR 7/3 very pale brown	10YR 8/2 very pale brown	10YR 3/1 very coarse, vegetal, grits dark gray (small pebbles in fracture)		medium fired	
36	693	CFW	2.5YR 5/6 red	7.5YR 5/4 brown	orown 5YR 2.5/1 black coarse, vegetal, grits (small granules), mica		low fired	
37	670	CFW	5YR 7/6 - 6/6 reddish yellow	5YR 7/6 - 6/6 reddish yellow	N/A coarse, vegetal, grits (small pebbles)		low fired	
38	688	CFW	7.5YR 6/4 ligth brown	5YR 6/6 reddish yellow	N/A	medium, vegetal, grits (granules)		

Nr.	HM no.	Ware	Color (out)	Color (in)	Color (sec) Fabric		Surface treatments
39	6672	CFW	encrusted	7.5YR 6/4 light brown	N/A	medium, vegetal, grits, mica	burnished
40	676	CFW	2.5YR 5/6 red	2.5YR 6/8 light red	10YR 3/1 very dark gray	coarse, vegetal, grits (also small pebbles), mica	
41	679	CFW	2.5YR 6/6 light red	2.5YR 6/8 light red	5YR 2.5/1 black	coarse, vegetal, grits (also small pebbles)	low fired
42	682	CFW	10YR 8/3 - 8/4 very pale brown	5YR 7/6 - 6/6 red- dish yellow	N/A coarse, vegetal, gr (also small pebble		medium fired
43	662	CFW	7.5YR 6/3 light brown	7.5YR 6/3 light brown	N/A	coarse, grits (also small pebbles), vegetal, mica	surface black smudged from fire
44	500	CFW	5YR 6/4 light red- dish brown	N/A	5YR 5/1 gray	coarse, vegetal, grits (also small pebbles), mica	low fired
45	493	CFW	N/A	N/A	N/A		
46	501	CFW	7.5YR 6/4 light brown	2.5 YR 6/6 light red	7.5YR 5/1 gray	coarse, vegetal, grits (also small pebbles), mica	fairly rough and ir- regular
47	491	CFW	2.5YR 6/4 light reddish brown	N/A	10YR 5/2 grayish medium-coarse, veg- brown etal, grits (granules), mica		low fired
48	664	CFW	N/A	N/A	N/A coarse, vegetal, grits, small pebbles		low fired
49	663	GW	2.5YR 6/1 gray	2.5YR 6/1 gray	10YR 3/1 very medium-coarse, grits, dark gray vegetal, mica		burnished outside

Plate I

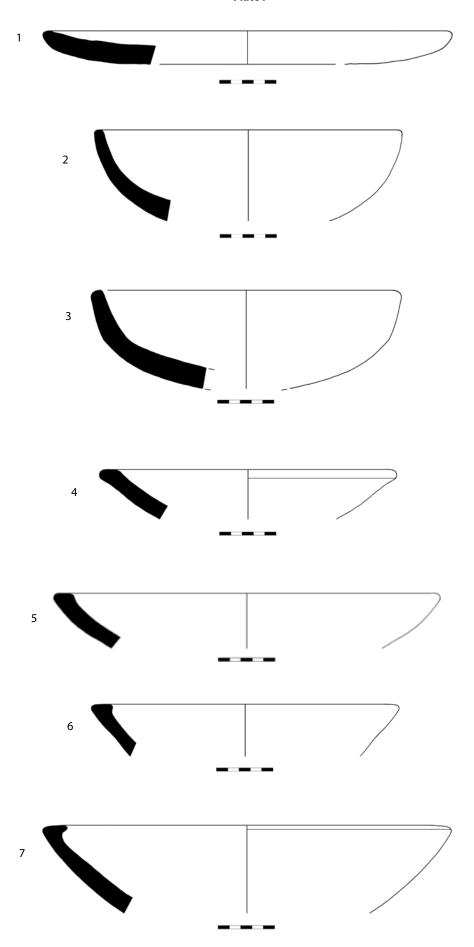
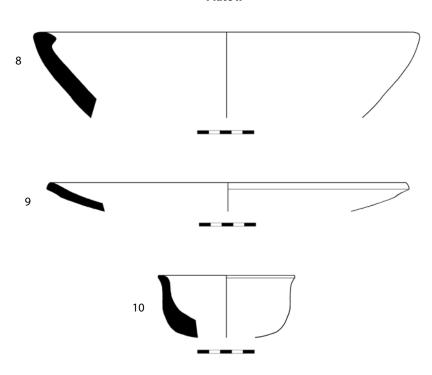


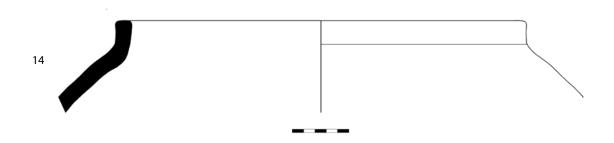
Plate II











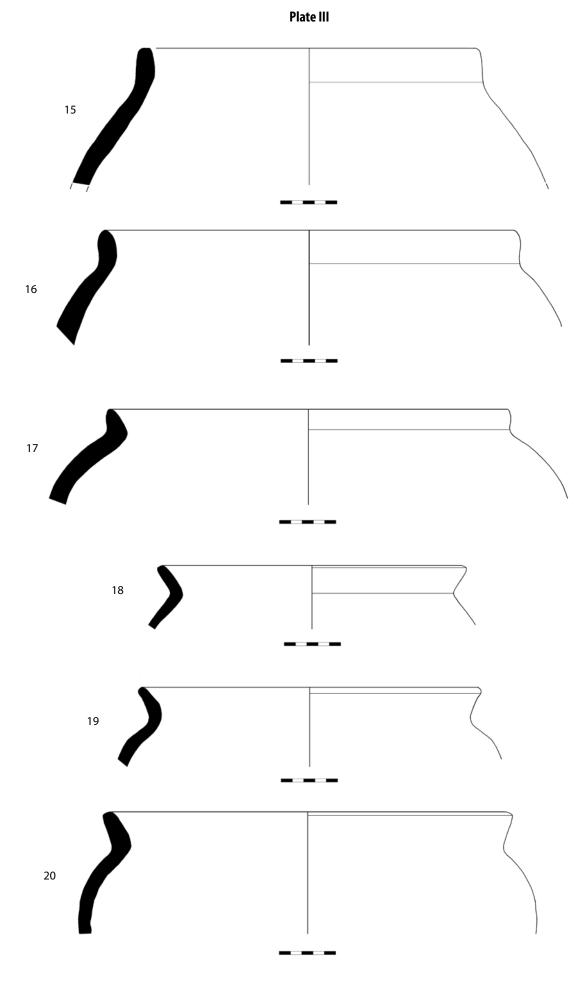
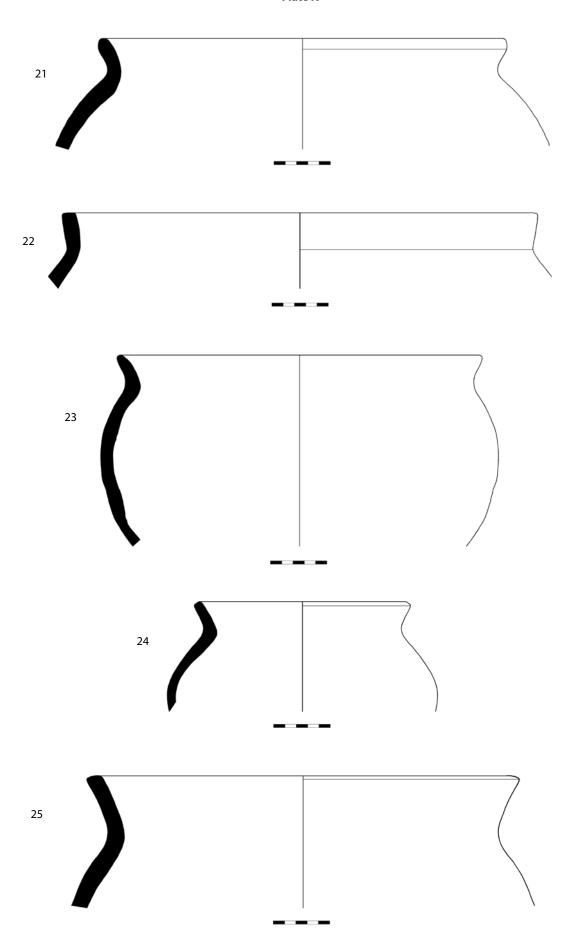
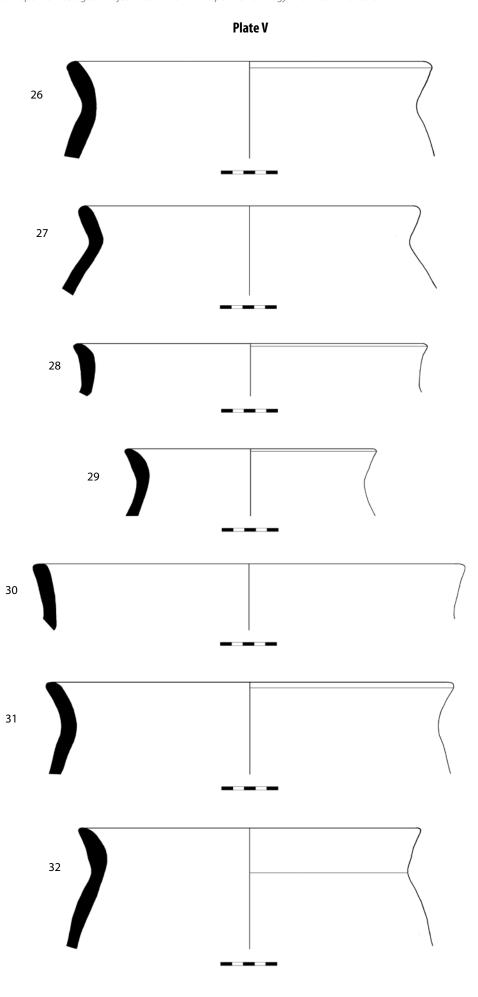
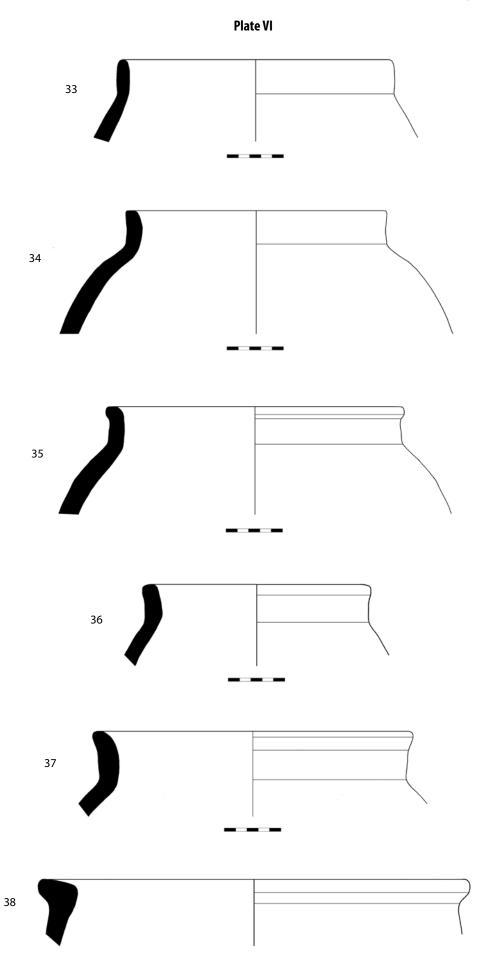
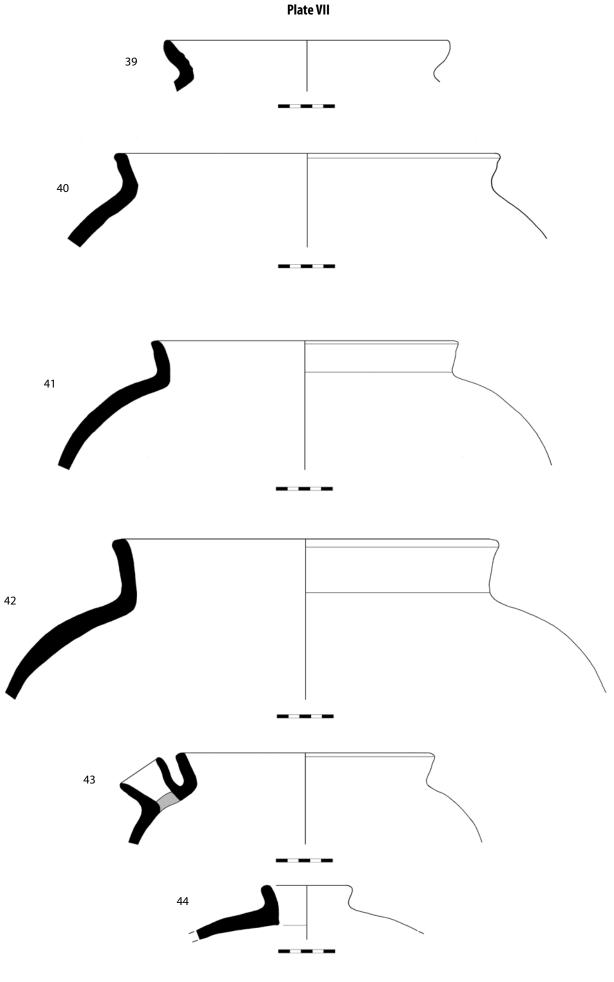


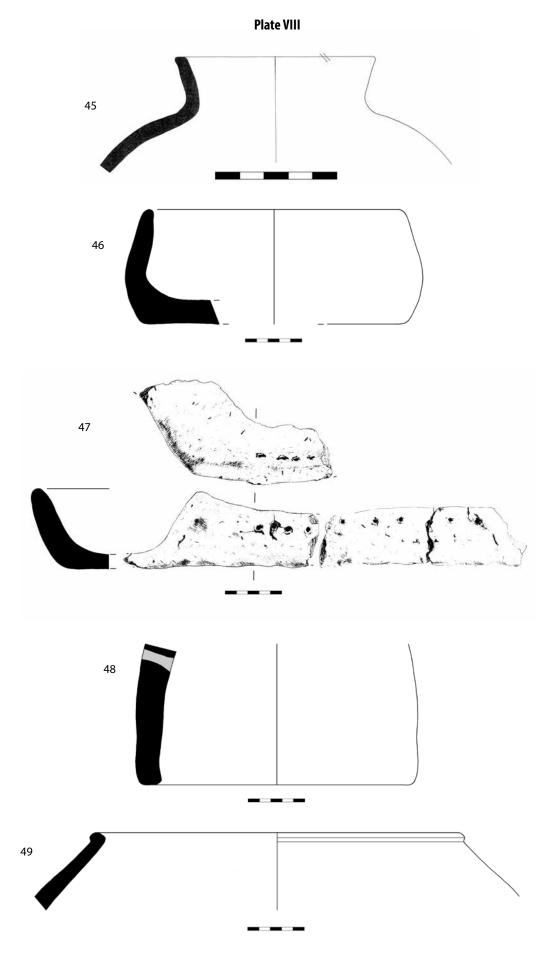
Plate IV













Abbreviations used in the description of objects

Nr.: Object number to identify object in plate; HM no.: Hirbemerdon Tepe inventory number;

Color: Reference to the Munsell Soil Colour Charts 2000. The full code is not listed;

Measures: Ht (height); Lg (length); Th (thickness); Wh (weight); D1 (diameter 1); D2 (diameter 2).

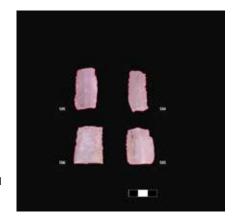
N.B. Due to lack of space, only object drawings are published when available, except for the most important Ph. IIIB ritual paraphernalia (i.e. 149, 187, 188, 191, 193), which include both photographs and drawings.

Photographs and drawings can be found in the online catalog.

Phase I

Nr.	HM no.	Description	Material	Color	Ht	Lg	Th	Wh	Notes
1a	503	Blade	flint	light brown	4,2	0	0,7	3	
1b	504	Blade	flint	light brown	4,7	0	0,5	2	
1c	505	Blade	flint	light brown	4,6	0	0,5	2,3	
1d	506	Blade	flint	light brown	4	0	0,8	2,8	
2	3027	Grinding stone	basalt	black	0	30,7	5,8	16,3	Elliptical in shape. Moderately worn. Complete.

Plate CXXVI





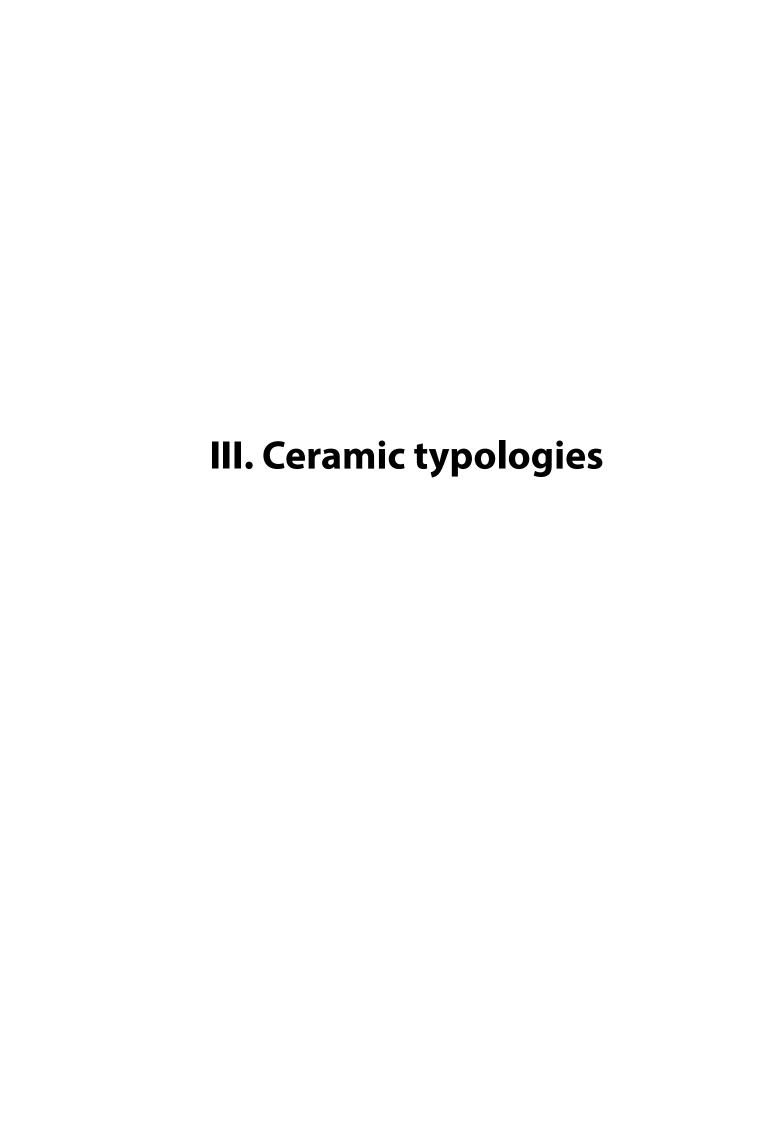
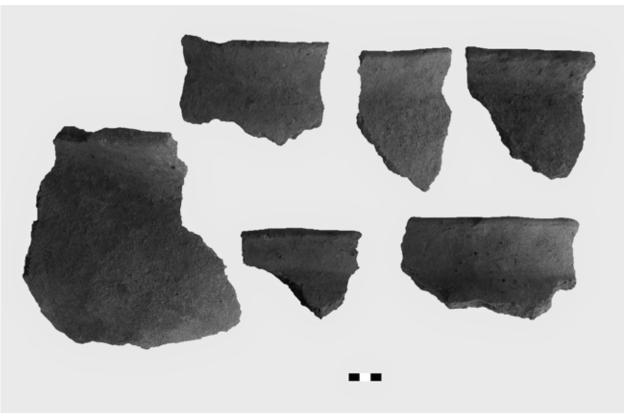


Plate CLXXXVII

Phase I



Ware:CFW



Ware:CFW