

KÜLTEPE AT THE CROSSROADS BETWEEN DISCIPLINES

SOCIETY, SETTLEMENT AND ENVIRONMENT
FROM THE FOURTH TO THE FIRST
MILLENNIUM BC

Edited by

Fikri Kulakoğlu & Cécile Michel

(With the collaboration of Guido Kryszat)

KIM Editors

Fikri Kulakoğlu & Cécile Michel

KIM Editorial Board

Gojko Barjamovic, Guido Kryszat, Luca Peyronel & Aslıhan K. Yener

KIM 5 — KÜLTEPE INTERNATIONAL MEETINGS 5



BREPOLS

TABLE OF CONTENTS

List of Illustrations	vii
Acknowledgements.....	xvii

CÉCILE MICHEL

1. Kültepe at the Crossroads between Disciplines	1
--	---

Politics, Law and Religion

JAN GERRIT DERCKSEN & JACOB JAN DE RIDDER

2. A City-State's Diplomacy in the Early Middle Bronze Age Near East.....	13
---	----

ADELHEID OTTO

3. Law and Justice in Kaneš and its Depiction on Cylinder Seals: A New Interpretation of the Motifs 'Ball-Staff' and 'Pot'	33
--	----

YORAM COHEN

4. The Origins and History of the God Šarra-mātān.....	55
--	----

AMIR GILAN

5. The Cult of Aškašepa in Hittite Sources	63
--	----

Women, Family and Correspondence

ANITA FATTORI

6. Keeping in Touch: Language and Mobility of Assyrian Women in the Old Assyrian Period.....	75
--	----

WIEBKE BEYER

7. The Hand of a Woman?	93
-------------------------------	----

MATTHIAS ADELHOFER

8. Invoking Relations in Old Assyrian and Old Babylonian Letters.....	109
---	-----

AGNETE W. LASSEN

9. The Seals of the Šalim-Aššur Family (94/k)	117
---	-----

Of Humans and Animals

DONALD KALE, HANDAN ÜSTÜNDAĞ, SEMİH ÖZEN, DORUK CAFER ÖZGÜ & FIKRI KULAKOĞLU

10. A First Attempt to Assess Activity Patterns at Kültepe: Studying Enteseal Changes in the Bronze Age Skeletal Sample.....135

KAMERAY ÖZDEMİR, HANDAN ÜSTÜNDAĞ, TURHAN DOĞAN, FURKAN KULAK & FIKRI KULAKOĞLU

11. Reconstructing Bronze Age Diet from Stable Isotopes Analysis: Preliminary Results from Kültepe-Kaneş.....151

FIKRI KULAKOĞLU, LUCA PEYRONEL & CLAUDIA MINNITI

12. Of Lions and Sheep: Animal Exploitation at Kültepe and in Central Anatolia during the Middle Bronze Age: New Data from Recent Excavations.....167

Recent Discoveries at Kültepe and its Vicinity

FIKRI KULAKOĞLU, RYOICHI KONTANI & YUJI YAMAGUCHI

13. Discovering the Late Chalcolithic Period at Kültepe: Excavation of the Central Trench (2021–2022) 179

YILMAZ RIDVANOĞULLARI, GÜZEL ÖZTÜRK, CIHAN AY, ELIF GENÇ & FIKRI KULAKOĞLU

14. Changes in the Settlement Plan at the End of the Third Millennium BC in Kültepe-Kaneş: New Data on the Transition from Public Buildings to Private Workshops185

FIKRI KULAKOĞLU, LUCA PEYRONEL, VALENTINA OSELINI & AGNESE VACCA

15. The Settlement Sequence of Kültepe from the Late Early to the Middle Bronze Age: Stratigraphic and Ceramic Periodization from Recent Excavations in the Southern Sector of the Mound207

ANDREAS MÜLLER-KARPE

16. Šamuha and Kaneş.....227

ADAM ANDERSON

17. Two New Tablets from the House of Kuliya, Son of Ali-abum, and One Broken Envelope: 2022 Kültepe Texts (Kt 22/k 02–03, 05).....249

FIKRI KULAKOĞLU & LUCA PEYRONEL

18. Recent Excavations on the Mound of Kültepe: A New Public Building from the End of the Karum Period at Kaneş-Neša.....257

BURCU TÜYSÜZ & YILMAZ RIDVANOĞULLARI

19. Studies on Kültepe Hellenistic Period: Preliminary Evaluations on 2022 Excavations.....275

- Index..... 297

LIST OF ILLUSTRATIONS

1. Kültepe at the Crossroads between Disciplines: An Introduction — *Cécile Michel*

Figure 1.1	Participants to the Fifth Kültepe International Meeting, Kültepe, 30 July–1 August 2022.	1
Figure 1.2	The KIM 5 participants in the Lower Town of Kültepe, 1 August 2022.	2
Figure 1.3	Mont Erciyes as seen from the mound of Kültepe, 2014.	3
Figure 1.4	The participants of the 5 th KIM visiting Ғattuša.	7

2. A City-State’s Diplomacy in the Early Middle Bronze Age Near East — *Jan Gerrit Dercksen & Jacob Jan de Ridder*

Figure 2.1	Kt 85/t 17: obverse.	29
Figure 2.2	Kt 85/t 17: lower edge.	30
Figure 2.3	Kt 85/t 17: reverse.	31

3. Law and Justice in Kaneš and its Depiction on Cylinder Seals — *Adelheid Otto*

Figure 3.1	Kültepe seals and sealings depicting the ball-staff and pot.	35
Figure 3.1b	Anatolian style cylinder seal.	35
Figure 3.1c	Impression of recut Babylonian cylinder seal, Ktn/k 1698A, 1709A*. CS 73.	35
Figure 3.1d	Impression of Anatolian stamp seal, Ktn/k 1740C. St 110.	35
Figure 3.1e	Impression of Assyrian style seal, Ktn/k 1845B. CS 629.	35
Figure 3.2a	Impression of Assyrian style seal Ktn/k 1949. CS 806.	36
Figure 3.2b	Impression of seal of Puzur-Ištar, son of Šu-Anum, the steward, Kt n/k 1811B, 1961–2009.	36
Figure 3.2c	Impression of Assyrian style cylinder seal, Ktn/k 1966B. CS 822.	36
Figure 3.2d	Impression of Assyrian style seal in two registers, Ktn/k 1793A. CS 518.	36
Figure 3.3a	Impression of Anatolian style cylinder seal, Ktd/k 13A, v/k 150B. CS 270.	37
Figure 3.3b	Impression of Anatolian style seal, Ktn/k 1786E. CS 502.	37
Figure 3.4a	Impression of Syro-Cappadocian style cylinder seal, Ktn/k 1837B, 1898A. CS 609.	37
Figure 3.4b	Impression of Syro-Cappadocian style cylinder seal, Ktn/k 1911A. CS 744.	37
Figure 3.5	Number of depictions of the ball-staff on seal impressions from Karum Kaneš II, collected by Teissier 1994.	38
Figure 3.6	Percentage of depictions of the ball-staff on seals of various styles.	38
Figure 3.7	Impression of Old Syrian (Shakkanakku style) seal.	39

Figure 3.8	Worshippers carrying ‘ball-staff’ and ‘pot’ on Syrian and Anatolian seals.	40
Figure 3.8a	Kt n/k 1861C.	40
Figure 3.8b	Kt c/k 1636A.	40
Figure 3.8c	Kt n/k 1865B.	40
Figure 3.8d	Anatolian style cylinder seal in the Louvre, AO 4796.	40
Figure 3.8e	Syrian style haematite seal in Fribourg, Institut Biblique, ex-Schmidt Collection.	40
Figure 3.9a	Seal impression on envelope Kt 93/k379.	41
Figure 3.9b	Sketch of the detail of the god with saw and the case containing ball-staff, pot, and another object.	41
Figure 3.10	Seal impression of Erum, the merchant.	42
Figure 3.11	Akkadian/Post-Akkadian cylinder seals.	43
Figure 3.11a	Seal depicting weighing and measuring. Drawing A. Otto & M. Lerchl after Boehmer 1965, no. 1105, fig. 458.	43
Figure 3.11b	One of the first depictions of the ball-staff: introduction scene to Shamash.	43
Figure 3.11c	Lapis lazuli seal Kt 82 t. 224.	43
Figure 3.11d	Seal depicting grain deities carrying the capacity measuring vessel towards the grain goddess.	43
Figure 3.11e	ED III-early Akkadian cylinder seal depicting the grain measuring procedure.	43
Figure 3.12	A strickle from the eighteenth century AD in use.	44
Figure 3.13	Mosaic from the Aula dei Mensores in Ostia, AD 230.	44
Figure 3.14a	Larsa pot containing scrap silver, weight stones, and sealed closures of sacks.	46
Figure 3.14b	Tentative reconstruction of a ‘sack of sealed silver’.	46
Figure 3.14c	The sack with horizontal striations and serrated upper end. Detail from Fig. 3.1b.	46
Figure 3.14d	Seal impression Kt n/k 1870B showing the sack closed with a cord in front of the supreme authority.	46
Figure 3.15	Lapis lazuli cylinder seal Kte/t 180 belonging to a high-ranking Assyrian officer.	47
4. . The Origins and History of the God Šarra-mātān — Yoram Cohen		
Table 4.1	Erišum 1, Erišum 14, and Šamši-Adad 1.	58
6. Keeping in Touch — Anita Fattori		
Figure 6.1	Elamma’s family.	76
Figure 6.2	Women mobility in Elamma’s family.	77
Table 6.1	Shipping of silver from Lamassutum to the city of Aššur.	79
Table 6.2	Lamassutum as a receiver of merchandise.	79

Table 6.3	Lamassutum receiving metals, textiles, and objects in Kaneš.	79
Table 6.4	Lamassutum acting as creditor.	80
Table 6.5	Shipping from Ummī-Išhara to the city of Kaneš.	80
Table 6.6	Ummī-Išhara receiving silver in Aššur.	80
Table 6.7	Šalimma receiving silver in Aššur.	81
Table 6.8	Shipping from Šalimma to the city of Kaneš.	81
Table 6.9	Šalimma as a receiver of merchandise.	81
Table 6.10	Šalimma acting as creditor.	81
Table 6.11	Šalimma's own business.	82
Table 6.12	Letters sent and/or received by women from Elamma's family.	84

7. The Hand of a Woman? — *Wiebke Beyer*

Figure 7.1	The second line on the obverse of KT 8, 165 shows many irregular or uneven elements, such as the different heights of the line and uneven spacing between signs and wedges. Anadolu Medeniyetleri Müzesi.	94
Figure 7.2	Comparison of KT 8, 165 (right) and 206 (left). Anadolu Medeniyetleri Müzesi.	94
Figure 7.3	The second line on KT 8, 206. Anadolu Medeniyetleri Müzesi.	94
Figure 7.4	Examples of the sign AM on tablets of Ummī-Išhara (KT 8, 165 and 206), Ennam-Aššur (KT 8, 190), and Elamma (KT 8, 80). Anadolu Medeniyetleri Müzesi.	95
Figure 7.5	Examples of the sign DÍ with the protruding first upper <i>Winkelhaken</i> on KT 8, 165, 206, 190, and 79. Anadolu Medeniyetleri Müzesi.	95
Figure 7.6	Examples of the signs DÍ, GA, ĤA, MA, and TIM on KT 8, 165 and tablets of Ennam-Aššur (KT 8, 190, 189, 190, 189, 189). Anadolu Medeniyetleri Müzesi.	96
Figure 7.7	Examples of IM on Kt 93/k 143, 198, 301, 352, 543, 564, and 722. Anadolu Medeniyetleri Müzesi.	97
Figure 7.8	The sign combination <i>um-ma</i> on Kt 93/k 303 (Ali-ahum), Kt 93/k 489 (Aššur-taklāku), and Kt 93/k 143 (Tariša). Anadolu Medeniyetleri Müzesi.	97
Figure 7.9	Two variations of the sign AM on Kt c/k 127. Anadolu Medeniyetleri Müzesi.	98
Figure 7.10	Examples of sign variants: the sign LI on Kt c/k 272, ZI on Kt c/k 266, NA on Kt c/k 272, and Ū on Kt c/k 44. Anadolu Medeniyetleri Müzesi.	99
Figure 7.11	The typical edges of the tablets of Ali-ahum (Kt c/k 249), Aššur-bēl-šadue (Kt c/k 208), Aššur-malik (Kt c/k 801), and Šimat-Ištar (Kt c/k 272). Anadolu Medeniyetleri Müzesi.	99
Figure 7.12	Examples of DÍ on KT 6a 237 und KT 6b 533, and IM on KT 6a 235 and 245; in both cases, the number of wedges differs, but not their arrangement. Anadolu Medeniyetleri Müzesi.	100
Figure 7.13	The sign AM on KT 6a, 236 shows the gap between the small <i>Winkelhaken</i> and the large one at the top. Anadolu Medeniyetleri Müzesi.	100

Figure 7.14	The sign AM with the gap on KT 6a, 236 (Lamassī), KT 6a, 136 (Šalim-Aššur), and KT 6a, 231 (Ennam-Aššur). Anadolu Medeniyetleri Müzesi.	101
Figure 7.15	The different corner types of Anna-anna's tablets: KT 6a, 239 vs. KT 6a, 238 + KT 6b, 314 vs. KT 6b, 299 + 302. Anadolu Medeniyetleri Müzesi.	102
Figure 7.16	The signs IM, LI, and ZI on KT 6b, 302 (Anna-anna), KT 6b, 314 (Anna-anna), and KT 6a, 151 (Šalim-Aššur). While the signs on Anna-anna's tablets are written with very common and simple variants, the ones on Šalim-Aššur's tablets are more complex. Anadolu Medeniyetleri Müzesi.	103
Table 7.1	Sign variants according to letter authors and tablets.	104
9. The Seals in the Šalim-Aššur Family (94/k) — Agnete W. Lassen		
Figure 9.1	The Šalim-Aššur family house, excavated in 1994.	117
Figure 9.2	The Šalim-Aššur family tree. Individuals with identified seals are marked in bold.	118
Figure 9.3	Drawing of the seal of Issu-arik.	119
Figure 9.4	Drawing of the seal of Iddin-abum s. Issu-arik, CS 606.	119
Figure 9.5	Seal impression of Iddin-abum's seal on A 847/TC 1, 64 held at the Louvre Museum.	120
Figure 9.6	Left, crop of the inscription of Iddin-abum's seal from A 847 and kt n/k 1836, flipped horizontally and turned 90 degrees counterclockwise.	120
Figure 9.7	Statue mentioning Šakkanakku of Mari, Puzur-Ištar. Museum of the Ancient Orient, Istanbul.	121
Figure 9.8	Drawing of the seal of Ennam-Aššur, CS 222.	122
Figure 9.9	Drawing of Ennam-Aššur's other seal, CS 1317.	122
Figure 9.10	Drawing of the seal of Šāt-Anna, Šalim-Aššur's youngest daughter, CS 1293	123
Figure 9.11	Drawing of the seal of Kukuwa, CS 1310.	123
Figure 9.12	Left: drawing of CS 42. Right: drawing of CS 88, the seal of Šu-Kūbum s. Qayātum.	123
Figure 9.13	Left: drawing of the seal of Šalim-Aššur, CS 1278. Right: impression of CS 1278 on KT 6, 141A.	124
Figure 9.14	Drawing of the seal of Lamassī, Šalim-Aššur's oldest daughter, CS 1308.	124
Figure 9.15	Drawing of the seal of Anna-anna, CS 1269.	125
Figure 9.16	Drawing of the seal of Ali-ahum, CS 1270.	125
Figure 9.17	Left: drawing of the seal of Šu-belum, CS 1283. Right: drawing of the seal of Anuli, CS 1355.	126
Figure 9.18	Left: Drawing of the seal of Enna-Suen, CS 1280. Right: Impression of Enna-Suen's seal on KT 6, 71.	127
10. A First Attempt to Assess Activity Patterns at Kültepe — Donald Kale, Handan Üstündağ, Semih Özen, Doruk Cafer Özgü & Fikri Kulakoğlu		
Figure 10.1	A simple inhumation from the Lower Town.	137
Figure 10.2	A stone cist burial from the Lower Town.	137
Figure 10.3	A jar burial from the Lower Town.	138

Figure 10.4	A bathtub burial from the Lower Town.	138
Figure 10.5	An example of enthesal changes in radial tuberosity: bone formation in Zone 1 (black-filled arrow with white border), bone formation in Zone 2 (white-filled arrow with black border), fine-porosity in Zone 2 (white arrow), and macro-porosity in Zone 2 (back arrow).	139
Table 10.1	Sex and age-at-death distribution of the sample group.	138
Table 10.2	The observed entheses and related muscles of the upper and lower limbs and the pelvic girdle, and their actions (anatomical descriptions adapted from Standring 2021).	140
Table 10.3	Number (n) of observed entheses (Z: zone).	140
Table 10.4	Significant results for correlation between EC scores and age groups (Z: zone, n: number, MS: mean score).	141
Table 10.5	Significant results for correlation between EC scores and sex (Z: zone, n: number, MS: mean score).	141
Table 10.6	Significant results for correlation between EC scores and chronological periods (Z: zone, n: number, MS: mean score).	142
Table 10.7	Significant results for correlation between EC scores and individuals from different burial types, both sexes pooled (Z: zone, n: number, MS: mean score).	143
Table 10.8	Significant results for correlation between EC scores and individuals from different burial types, only males (Z: zone, n: number, MS: mean score).	143
11. Reconstructing Bronze Age Diet from Stable Isotopes Analysis — <i>Kameray Özdemir, Handan Üstündağ, Turhan Doğan, Furkan Kulak & Fikri Kulakoğlu</i>		
Figure 11.1	Adult individuals and local fauna scatter plot graph. Mean values with standard deviation.	157
Figure 11.2	Scatter plot graph by sex groups. Mean values with standard deviation.	157
Figure 11.3	Scatter plot graph by age groups. Mean values with standard deviation. YA: Young Adult; MA: Middle Adult; OA: Old Adult.	157
Table 11.1	List of Kültepe samples for carbon and nitrogen analysis.	153
Table 11.2	Distribution of Kültepe samples according to the variables used in the study (samples that do not meet the collagen quality criteria are not included). N: number of samples.	154
Table 11.3	$\delta^{13}\text{C}(\%)$ and $\delta^{15}\text{N}(\%)$ results of Kültepe adult human and animal samples. EBA: Early Bronze Age; MBA: Middle Bronze Age.	156
Table 11.4	Descriptive statistics of Kültepe carbon and nitrogen results according to the studied variables. N: number of samples; SD: standard deviation value; Max.: maximum value; Min.: minimum value.	158
12. Of Lions and Sheep: Animal Exploitation at Kültepe and in Central Anatolia during the Middle Bronze Age — <i>Fikri Kulakoğlu, Luca Peyronel & Claudia Minniti</i>		
Figure 12.1	Goat (above) and sheep (below) mortality profiles according to the model of Helmer et al. (2007). Age classes according to Payne (1973). Total goat mandible/teeth: 63; total sheep mandible/teeth: 361.	169

Figure 12.2	Representation of bear anatomical elements found in the monumental Stone Building at Kültepe.	170
Figure 12.3	Two fragmented left lion mandibles.	171
Figure 12.4	Representation of lion anatomical elements found in the monumental Stone Building at Kültepe.	171
Table 12.1	Numbers of identified animal remains (NISP) per species.	168
13. Discovering the Late Chalcolithic Period at Kültepe — <i>Fikri Kulakoğlu, Ryoichi Kontani & Yuji Yamaguchi</i>		
Figure 13.1	Location of central trench (north on the right).	180
Figure 13.2	Plan of large zigzag building.	180
Figure 13.3	Black burnished pottery with white-filled incision.	181
Figure 13.4	Burial jar from south-west part of Room 1.	181
Figure 13.5	Burial jar from north-east part of Room 1.	181
Figure 13.6	Horseshoe-shaped hearth in Room 1 (north on the right).	182
Figure 13.7	Burial jar in eastern small room.	183
Figure 13.8	Canaan blades from eastern small room.	183
Table 13.1	AMS ¹⁴ C dates from Central Trench.	182
14. Changes in the Settlement Plan at the End of the Third Millennium bc in Kültepe-Kaneš — <i>Yılmaz Rıdvanogulları, Güzel Öztürk, Cibani Ay, Elif Genç & Fikri Kulakoğlu</i>		
Figure 14.1	Kültepe-Kaneš mound, view from the east.	186
Figure 14.2	Centres mentioned in the text.	188
Figure 14.3	Palatial complex of level 13. Orthomosaic produced by Yuichi Hayakawa, 2015.	189
Figure 14.4	A view of the south-western part of the 'Idol Room' with its plastered walls and benches.	191
Figure 14.5	Kültepe-Kaneš Late EBA III Modest Workshops. The earliest phase of the complex (in violet). Rooms A1 and A2.	192
Figure 14.6	A clay crucible containing metal slag found in Room A1.	193
Figure 14.7	Kültepe-Kaneš Late EBA III Modest Workshops with oven installations. *Room is labelled as 'B' in the Figure.	193
Figure 14.8	Handmade buff slipped bowl found in the early phase of Room B3.	194
Figure 14.9	Gritty Ware sherds found in the middle phase of Room A1.	194
Figure 14.10	'Local Anatolian Type' plate fragments.	194
Figure 14.11	A clay crucible containing metal slag found in the middle phase of Room A1.	194
Figure 14.12	The so-called tandoor unearthed in Room B1.	195
Figure 14.13	Kültepe-Kaneš Late EBA III Modest Workshops. The multi-phase rooms in the south-west part of the complex excavated in 2019–2021. *Room is labelled as 'B' in the Figure.	195

Figure 14.14	A ceramic group found on the floor of the late phase of Room B5.	195
Figure 14.15	Paint decorated sherds of vessel with Intermediate tradition, found on the floor of the late phase of Room B5.	195
Figure 14.16	Alişar III ware cup and a vessel fragment found on the floor of the late phase of Room B5.	196
Figure 14.17	The multi-phase unused oval kiln and a pile of baked and unbaked pottery over northern upper wall.	196
Figure 14.18	The multi-phase unused oval kiln. View of the exterior of the structure from the east.	197
Figure 14.19	A pot with painted decoration in Intermediate style from ‘Unused Oval Kiln’.	197
Figure 14.20	Alabastron-shaped Syrian bottle from ‘Unused Oval Kiln’.	197
Figure 14.21	Stone idol from ‘Unused Oval Kiln’.	198
Figure 14.22	Stone amulet (?) from ‘Unused Oval Kiln’.	198
Figure 14.23	Schematic plan of Kültepe Late EBA III workshops and other later level buildings.	198
Figure 14.24	The cell-type underground room of level 12.	199
Figure 14.25	Round and cell-planned stone structures of EBA III.	200

15. The Settlement Sequence of Kültepe from the Late Early to the Middle Bronze Age — *Fikri Kulakoğlu, Luca Peyronel, Valentina Oselini & Agnese Vacca*

Figure 15.1	Kültepe, southern terrace complex, mound levels/periods 8–9 with indication of Açma/Operations excavated by the PAIK in 2019–2022.	208
Figure 15.2	Kültepe, mound Açma/Areas 01 and 08, excavations 2020–2022 with the Burnt Room (periods/levels 8–9/10) and the Stone Building (period/level 7).	209
Figure 15.3	Pottery from the Burnt Room: Simple Ware, open and closed shapes (1–12); Slip and Burnished Ware (13–18).	213
Figure 15.4	Pottery from the Burnt Room: Painted Ware, open and closed shapes (1–11); Cooking Ware, closed shape (12–14).	214
Figure 15.5	Pottery from the Stone Building: Simple Ware, open shapes.	216
Figure 15.6	Pottery from the Stone Building: Simple Ware, closed shapes.	218
Figure 15.7	Pottery from the Stone Building: an applied bull’s head decoration on a Simple Ware jar.	219
Figure 15.8	Pottery from the Stone Building: Red Slip Ware.	220
Figure 15.9	Pottery from the Stone Building: Red Slip <i>hydria</i> and jar (1–2), fragment with the motif of the <i>signe royal</i> (3); and a fragment with plastic animal’s head (4).	221
Figure 15.10	Pottery from the Stone Building: Cooking Ware.	222
Figure 15.11	A detail of the plastic geometric decoration applied on pithos 20.t 08.mk17_647.	222

16. Šamuha and Kaneš — *Andreas Müller-Karpe*

Figure 16.1	Reconstruction of the caravan route between Šamuha and Kaneš with intermediate stops (daily stages).	228
-------------	--	-----

Figure 16.2	Kayalıpınar level 5.	229
Figure 16.3	Kayalıpınar level 5, isometric view with bronze sockets of door hinges from the 'House of Tatali'.	229
Figure 16.4	Kayalıpınar, level 5 (grey) and Kültepe, level <i>kārum</i> Kaneš II, house of Šalim-Aššur (black after T. Özgüç 2003).	230
Figure 16.5	Kayalıpınar level 5. Virtual reconstruction of the situation at sunrise at the summer solstice. The walls of the houses are exactly in line with the first rays of the sun.	231
Figure 16.6	Kayalıpınar level 5, pottery in situ during the excavation.	232
Figure 16.7	Kayalıpınar level 5, pottery after restoration.	232
Figure 16.8	Kayalıpınar level 5, beak-spouted pitchers and drinking bowls.	233
Figure 16.9	Kayalıpınar level 5, pithoi, cooking pots, and vessels.	233
Figure 16.10	Impressions of stamp seals with geometrical motifs: 1, 2, 4 Kayalıpınar level 5 (Kp 06/152; 07/74); 3, 5, 6 Kültepe, level <i>kārum</i> Kaneš Ib.	234
Figure 16.11	Impressions of stamp seals with depictions of animals: 1 Kayalıpınar level 5 (Kp 08/5); 2 Kültepe, level <i>kārum</i> Kaneš II.	234
Figure 16.12	Impressions of stamp seals and cylinder seals with depictions of a hunter with a lance and wild animals: 1, 2 Kayalıpınar level 5 (Kp 07/44); 3–5 Kültepe, level <i>kārum</i> Kaneš II.	235
Figure 16.13	Impressions of stamp seals and cylinder seals with depictions of animals, among others seen from above: 1, 2 Kayalıpınar level 5 (Kp 08/101); 3, 4 Kültepe, level <i>kārum</i> Kaneš II.	236
Figure 16.14	Impressions of stamp seals with depictions of a double-headed eagle: 1, 2 Kayalıpınar level 5 (Kp 08/6); 3–5 Kültepe, Waršama Saray.	236
Figure 16.15	Impressions of cylinder seals, Classic Old Assyrian Style: 1, 2 Kayalıpınar level 5 (Kp 08/109); 3, 4 Kültepe, level <i>kārum</i> Kaneš II.	237
Figure 16.16	Impressions of cylinder seals, Old Assyrian Style (top left) and Old Assyro-Cappadocian Style (bottom left and top right) with the motif God of War on Lion: 1, 2 Kayalıpınar level 5 (Kp 08/16. 17. 108); 3 Kültepe, level <i>kārum</i> Kaneš II (N. Özgüç 2006, pl. 60 Kt.n/k 1851 CS 641). Parallels of the motif: 4 gold folio from Kültepe (Kulakoğlu 2008); 5 Yazılıkaya.	238
Figure 16.17	1–5 Cylinder seal from Kayalıpınar level 5 (Kp 07/45); 6, 7 Kültepe.	239
Figure 16.18	Distribution of cylinder seals like Fig. 16.17.	240
Figure 16.19	Kayalıpınar level 6, radiocarbon dates from three samples of charred grains.	241
Figure 16.20	Kayalıpınar level 5, radiocarbon dates of four different annual rings of a charred wooden beam. The light grey area indicates the calibrated age without wiggle matching, the dark grey area the calibrated age with wiggle matching.	242
18. Recent Excavations on the Mound of Kültepe — Fikri Kulakoğlu & Luca Peyronel		
Figure 18.1	Kültepe mound. Aerial view of the southern sector with the area investigated by the Italian Archaeological Project (PAIK) of the University of Milan.	258
Figure 18.2	Schematic plan of the Middle Bronze I–II (mound levels/periods 7–8) building in the central-southern sector of the Upper Town of Kültepe. (A) Southern Terrace Building Complex, (B) Stone-Paved Plaza, (E) Warehouse, (F) Square Building, (C–D) Temple I and II.	259

Figure 18.3	Plan and view from the north of Temple II of Kültepe.	260
Figure 18.4	Kültepe mound. The Stone Building in the southern sector of the Upper Town.	261
Figure 18.5	Kültepe mound. Plan of the Stone Building of the Upper Town.	262
Figure 18.6	Kültepe mound. Stone Building. View of Room L.79 from the north.	263
Figure 18.7	Kültepe mound. Stone Building. Section with the level of collapsed stones in Room L.79 from the north.	263
Figure 18.8	Kültepe mound. Stone Building. The bench in Room L.79 from the south.	258
Figure 18.9	Kültepe mound. Stone Building. Detail of the mat over the floor in Room L.79.	264
Figure 18.10	Kültepe mound. Stone Building. Detail of bowl over the floor in Room L.79.	265
Figure 18.11	Radiocarbon datings calibrated 2-sigma of samples (animal bones and charred seeds) from the filling layers of the Stone Building.	266
Figure 18.12	Kültepe mound. Stone Building. The pithoi in Room L.78 from the west.	266
Figure 18.13	Pithos Kt.22.t 01.Mk4.P_2 from Room L.78.	267
Figure 18.14	Decorated pithos Kt.20.t 08.Mk17.P_647 from the Stone Building.	268
Figure 18.15	Decorated pithos Kt.20.t 08.Mk17.P_648 from the Stone Building.	268
Figure 18.16	Detail of the figurative frieze of decorated pithos Kt.20.t 08.Mk17.P.647.	269
Figure 18.17	Detail of the lyre player of the Inandik vase and Kültepe pithos Kt.20.t 08.Mk17.P.647.	269
19. Studies on Kültepe Hellenistic Period — <i>Burcu Tüysüz & Yılmaz Rıdvanogulları</i>		
Figure 19.1	Sites excavated in 2009–2020 and geophysical studies in 2022.	276
Figure 19.2	Goddess statue and bull's head.	276
Figure 19.3	Sites with intense anomaly in geophysical surveys.	277
Figure 19.4	Trench 4 excavation site.	278
Figure 19.5	Trench 4 architectural remains.	279
Figure 19.6	Ceramic samples unearthed in the late phase, drawings and photographs.	280
Figure 19.7	In situ pithos unearthed in the late phase.	282
Figure 19.8	Loom weights uncovered in pithos.	283
Figure 19.9	Beads.	283
Figure 19.10	Ceramic samples unearthed in the early phase, drawings and photographs.	284
Figure 19.11	Goat-figured appliqué.	286
Figure 19.12	Coins.	286
Figure 19.13	Plan of Hellenistic period architectural remains unearthed in 2009, 2020, and 2022.	288