

11 Vorbemerkungen zu den Tafeln

Die Funde sind numerisch nach der Abfolge der Befunde sortiert. Eine zusätzliche fortlaufende Nummer innerhalb eines Befundes identifiziert die abgebildeten Funde. Die vergebene Katalognummer ist in der gesamten Arbeit beibehalten. Die Befundnummer wurde in der Regel unten links hervorgehoben.

Aufgrund der Fundmengen wurde eine signifikante Auswahl bei der zeichnerischen Darstellung getroffen.

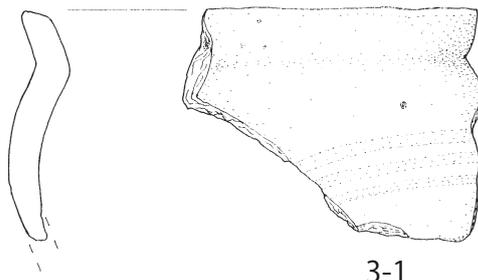
Die Haus- und Speicherbauten sind in drei verschiedenen Darstellungsweisen abgebildet. Zuerst der Befundplan mit der Befundnummerierung und der näheren Umgebung, dann der herausgearbeitete Grundriss und im Anschluss ein Übersichtsplan der zugehörigen Pfostentiefen. Im Planum ist bei Gebäuden der Maßstab 1:200, bei Speicherbauten M 1:100.

Die Umzeichnungen der Plana und Profile der Brunnenanlagen basieren auf der Felddokumentation, die mit Corel Draw digital nachbearbeitet wurden.

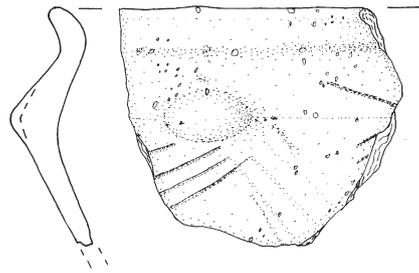
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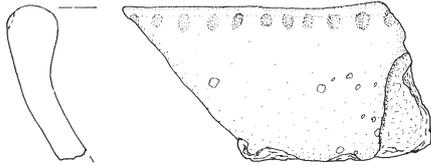
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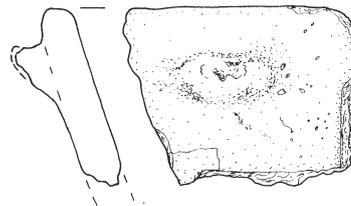
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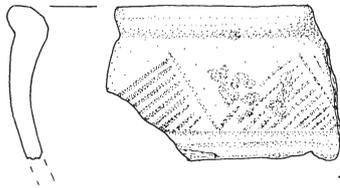
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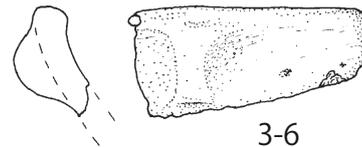
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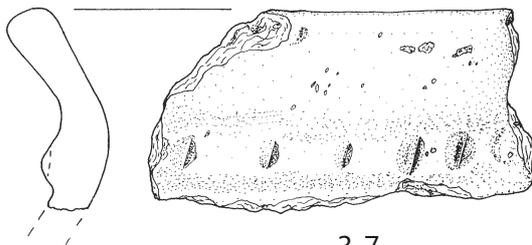
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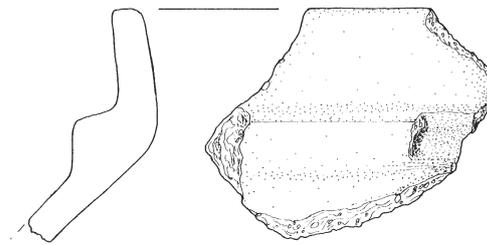
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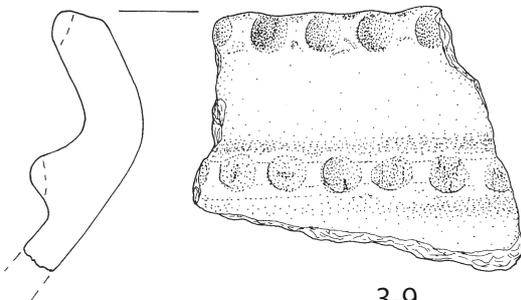
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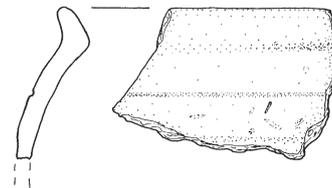
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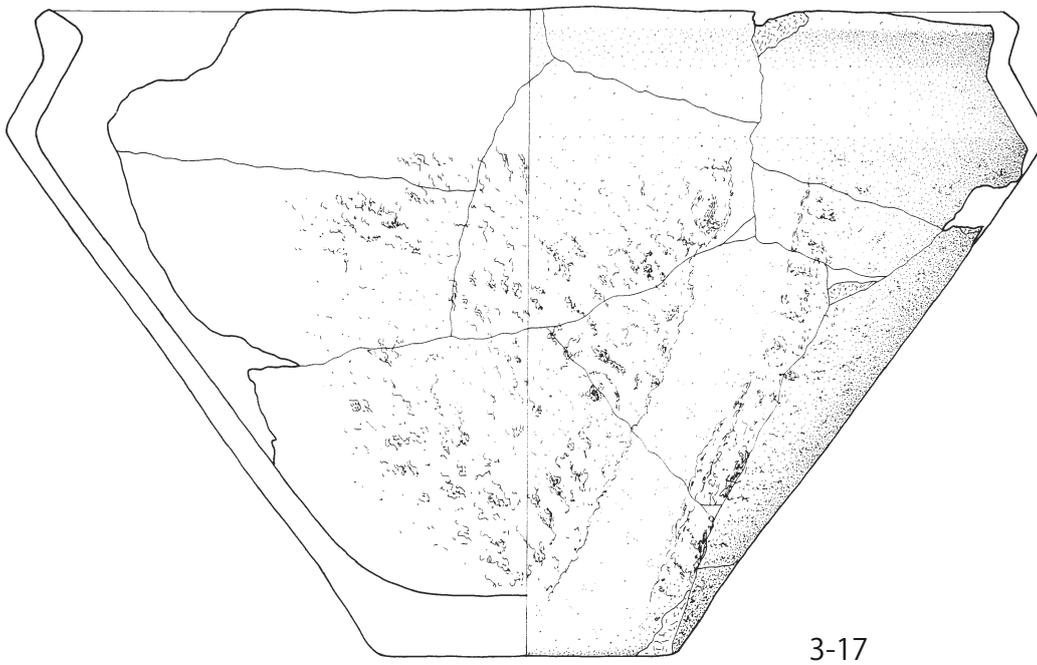
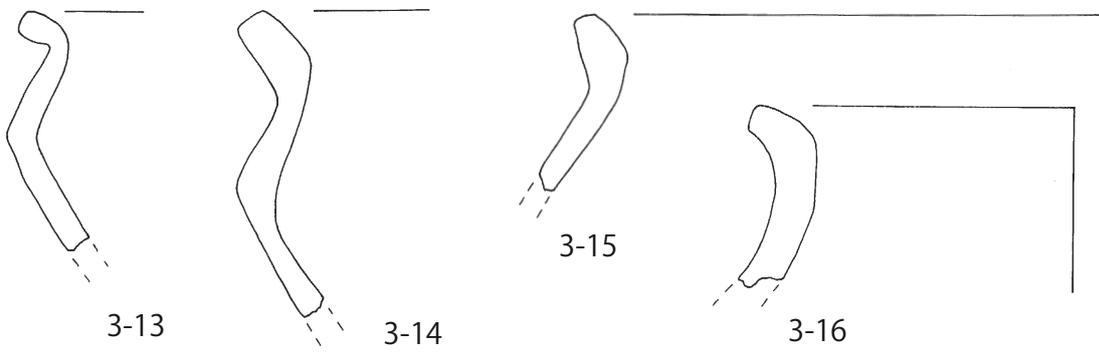
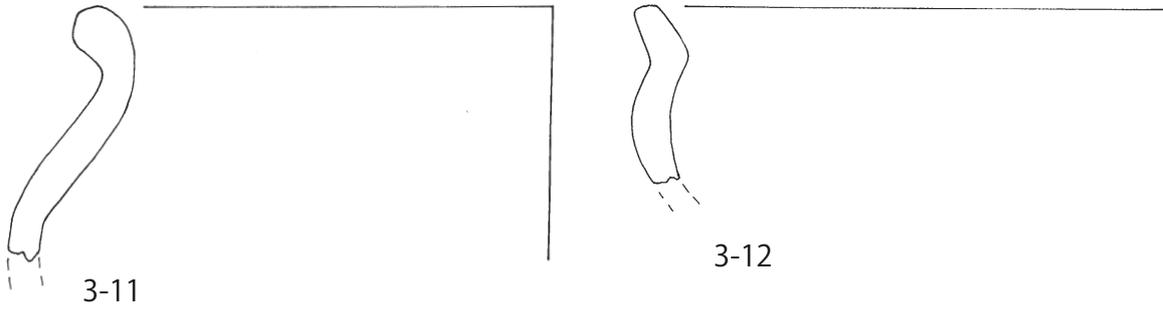
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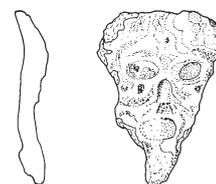
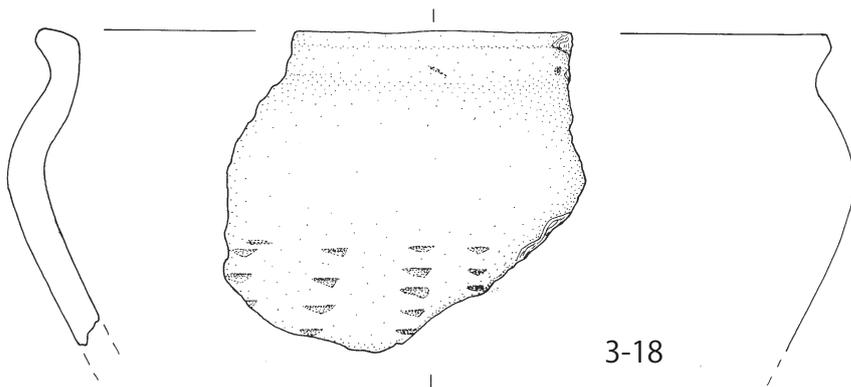
Nortmoorer Hammrich

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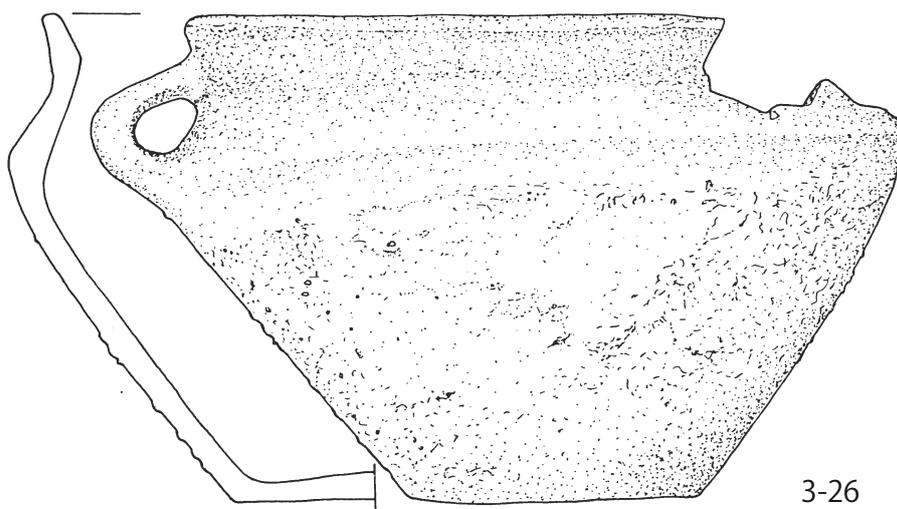
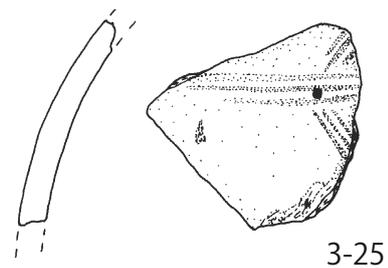
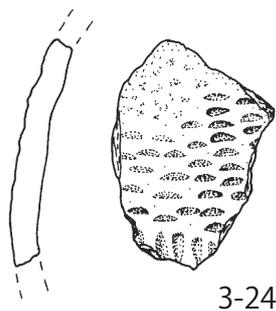
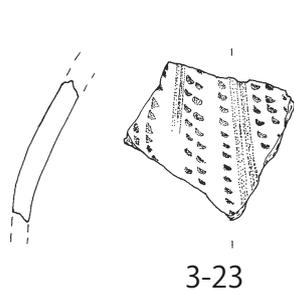
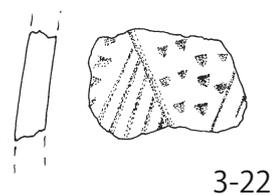
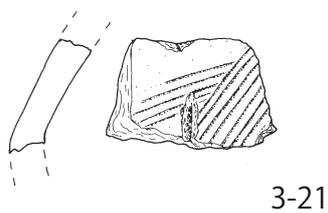
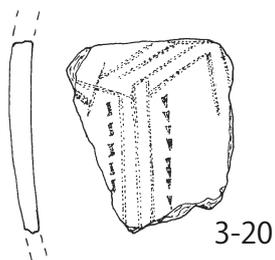


Nortmoorer Hammrich

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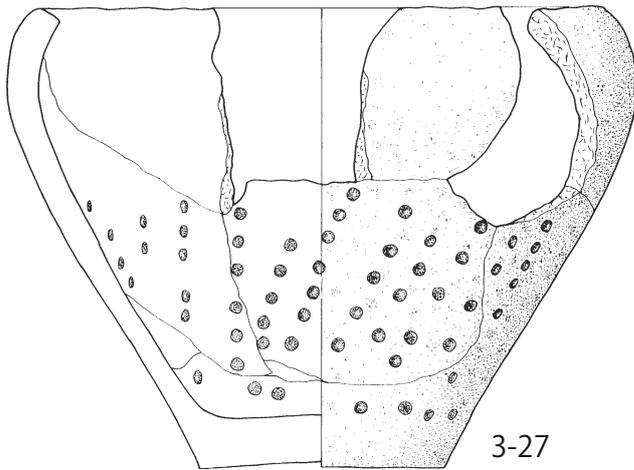


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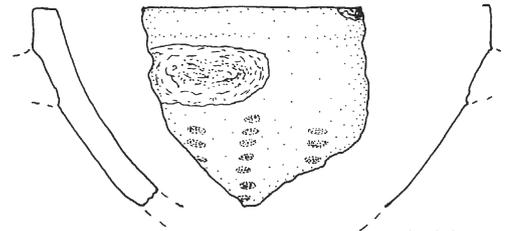


Nortmoorer Hamrich

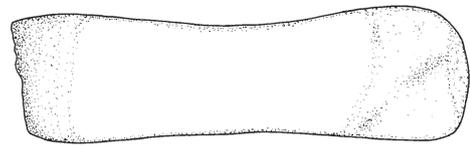
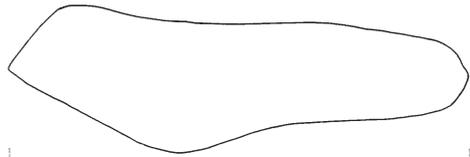
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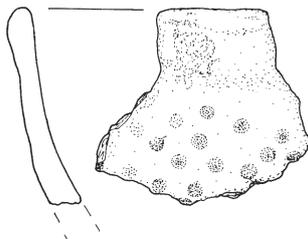
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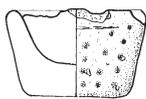
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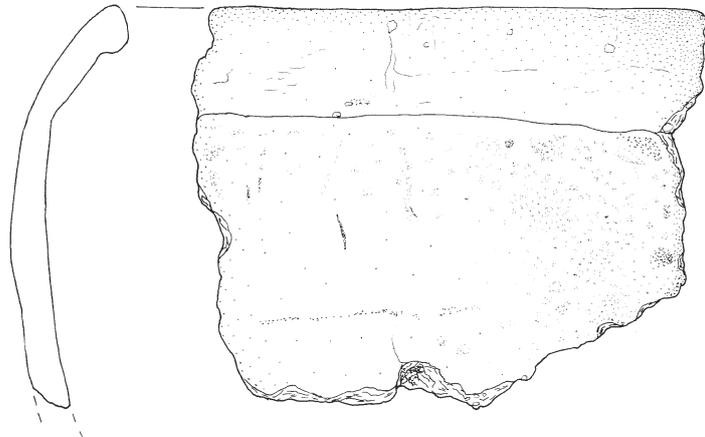
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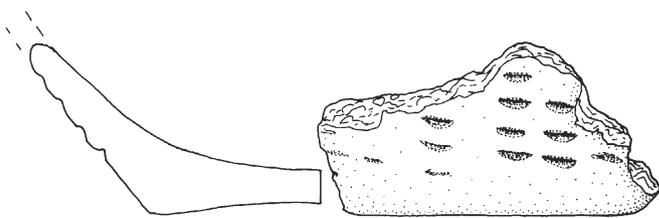
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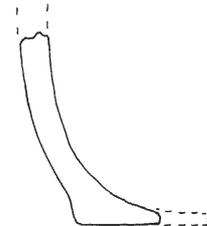
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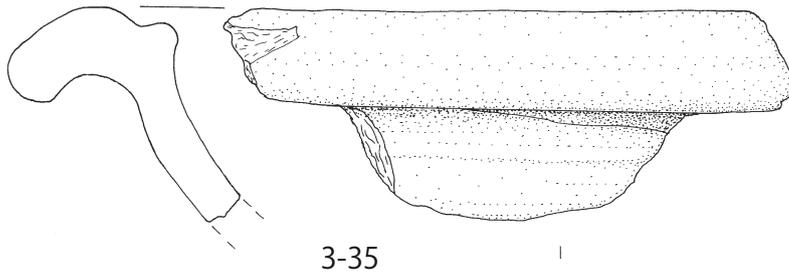
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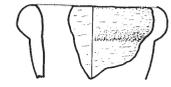
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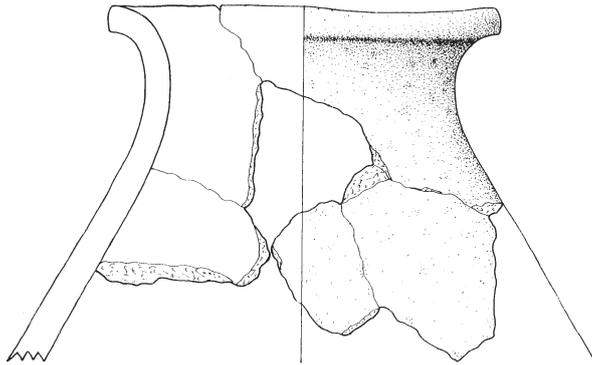


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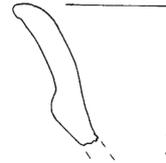


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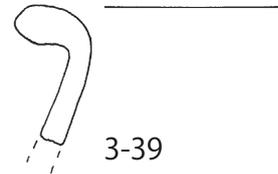
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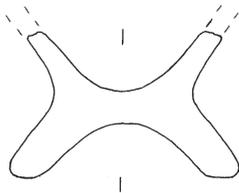
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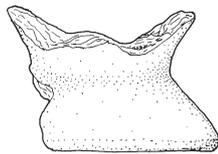
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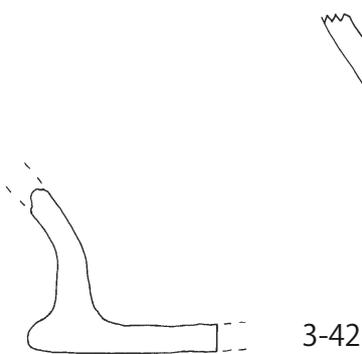
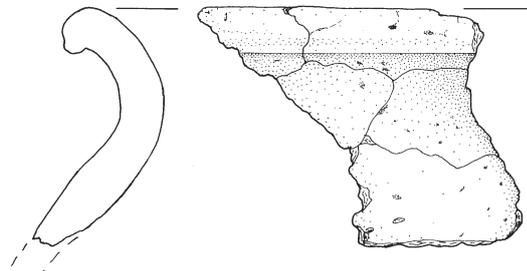
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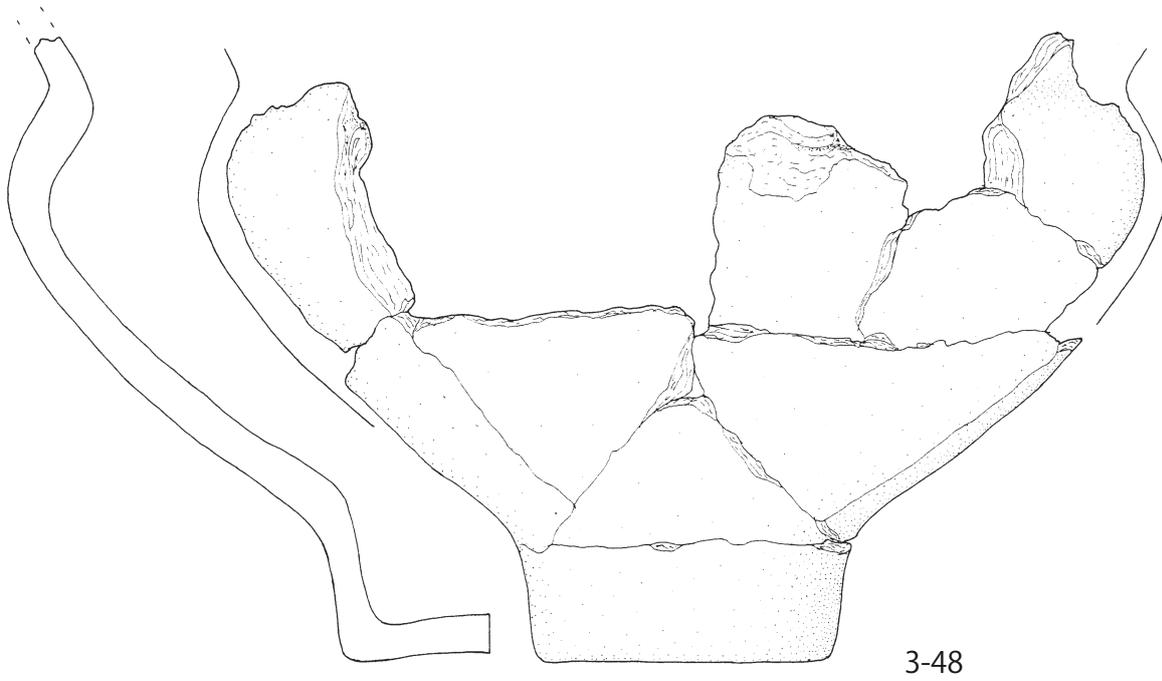
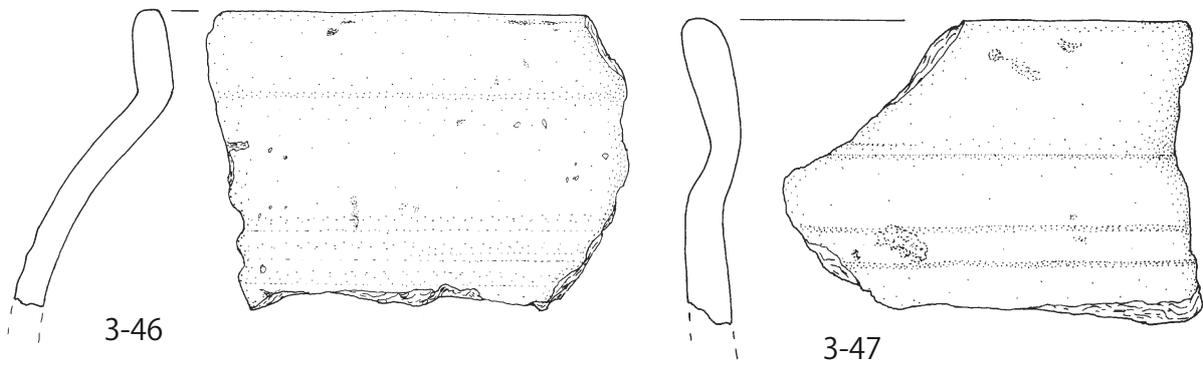
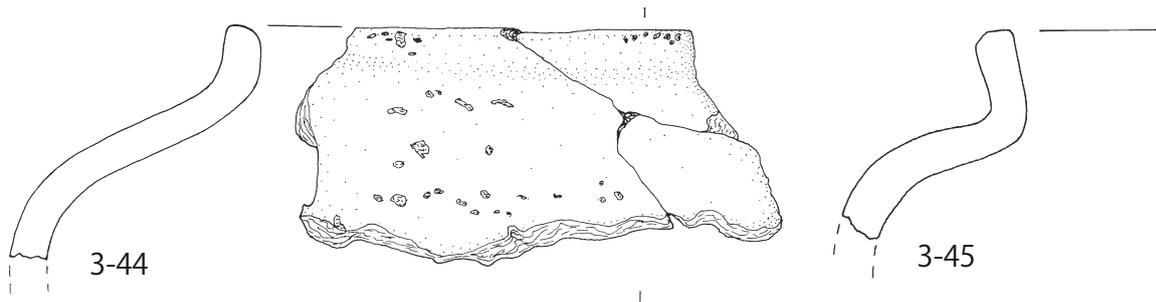
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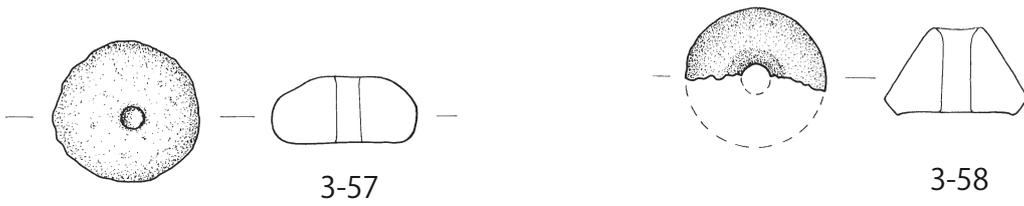
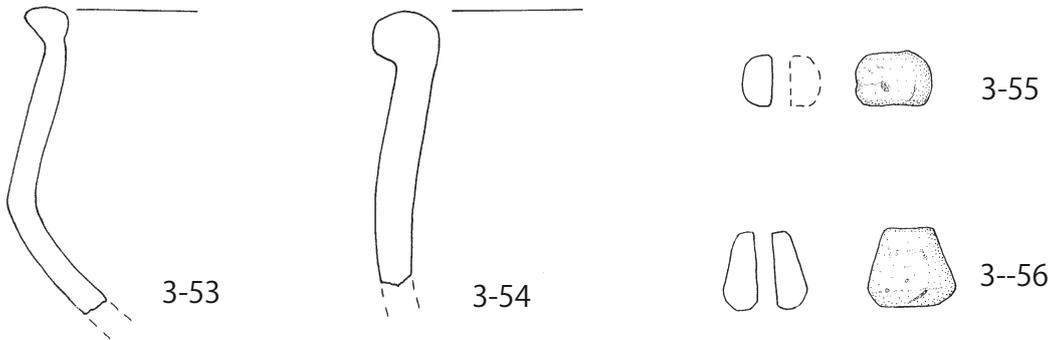
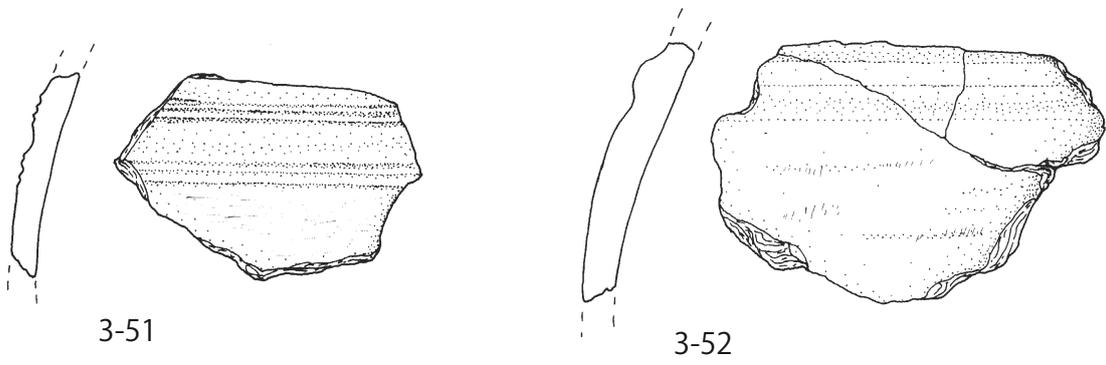
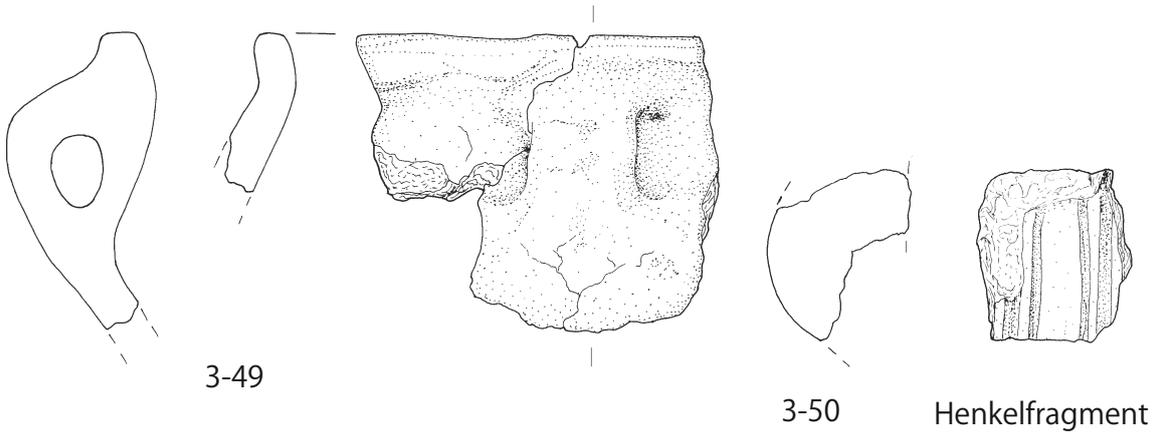
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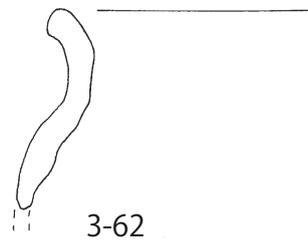
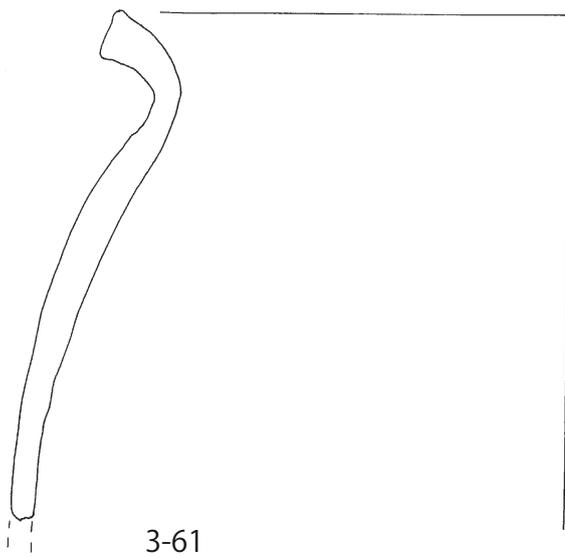
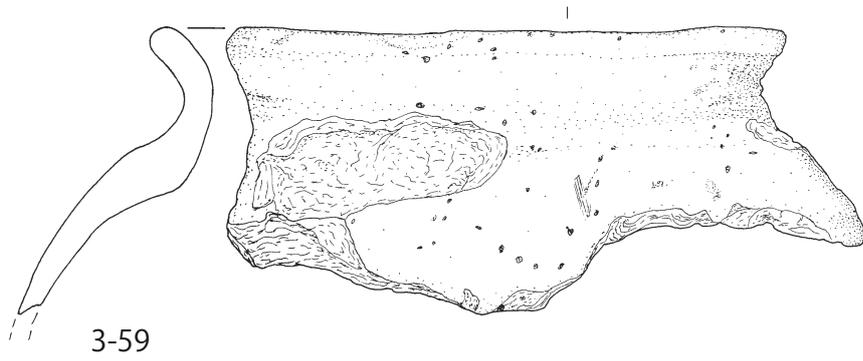
Nortmoorer Hammrich

Tafel 7



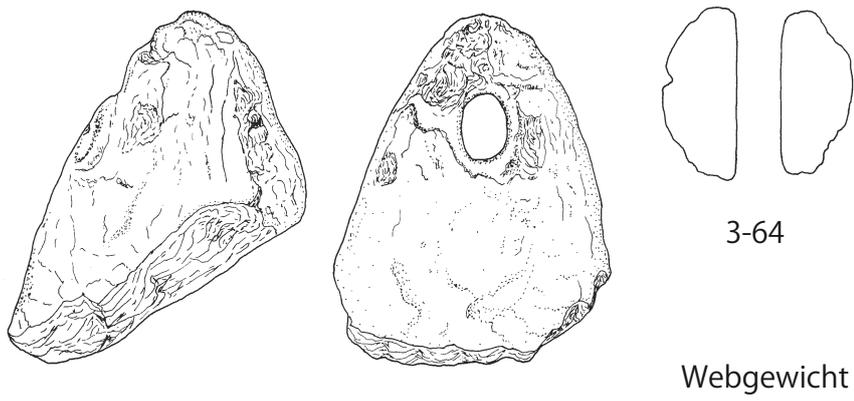
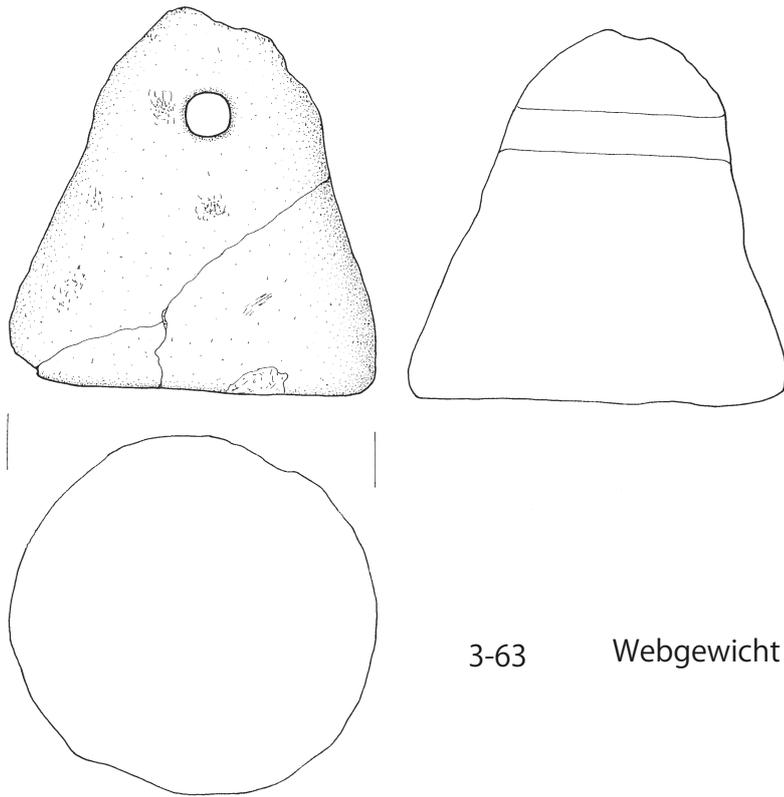
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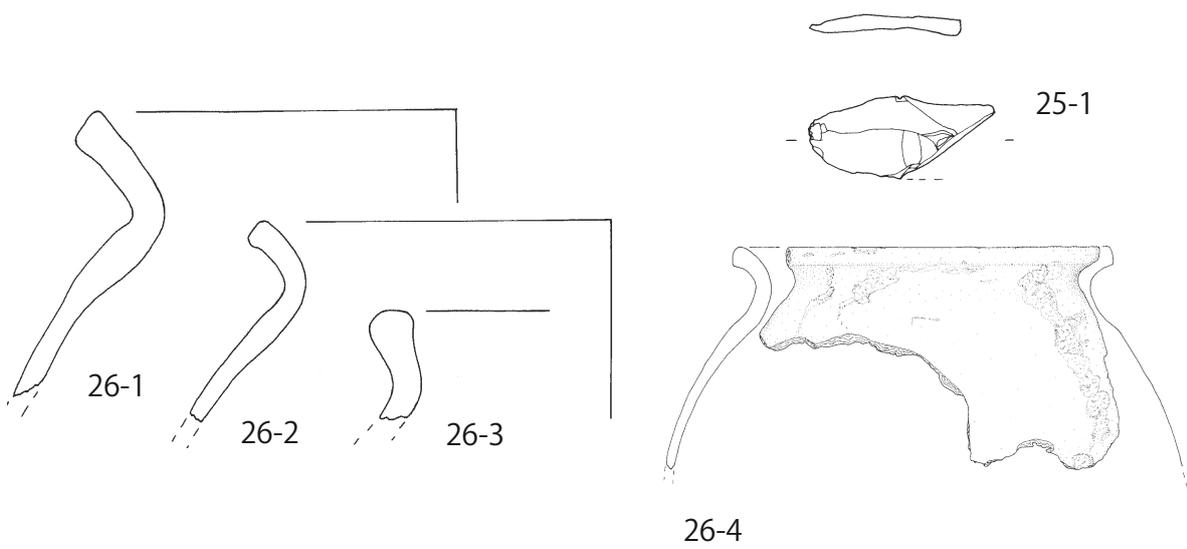
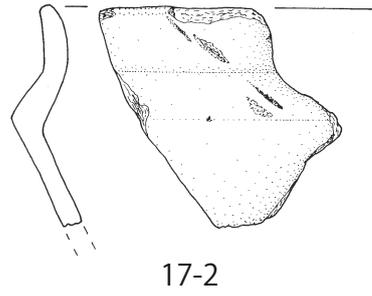
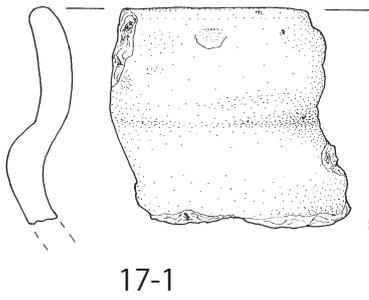
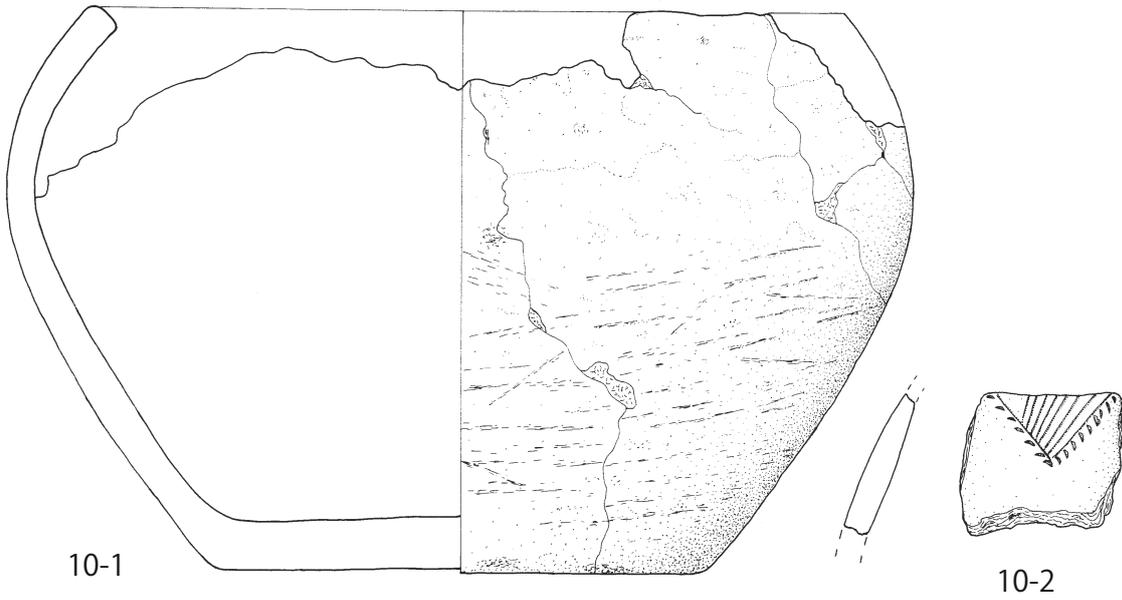


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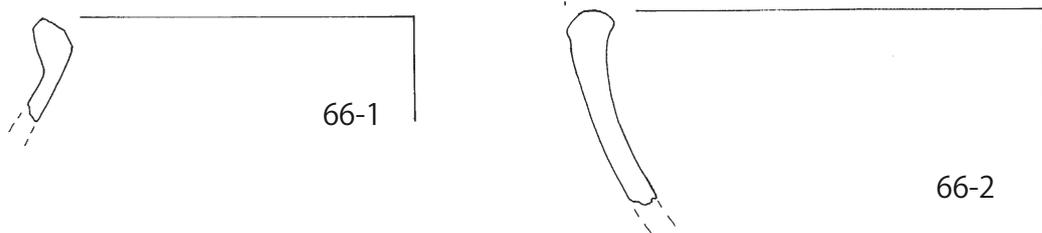
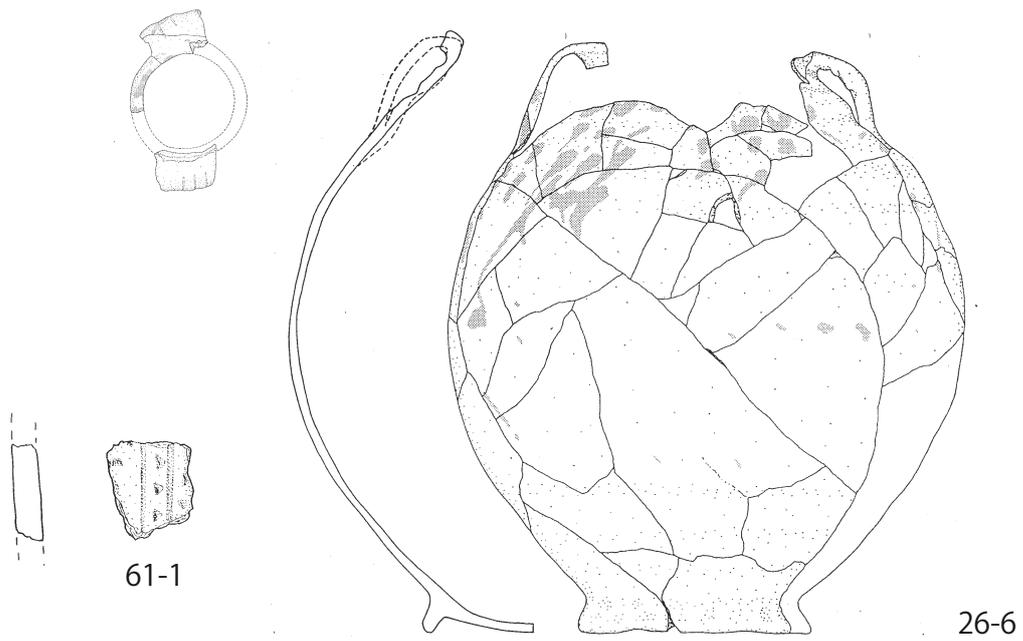
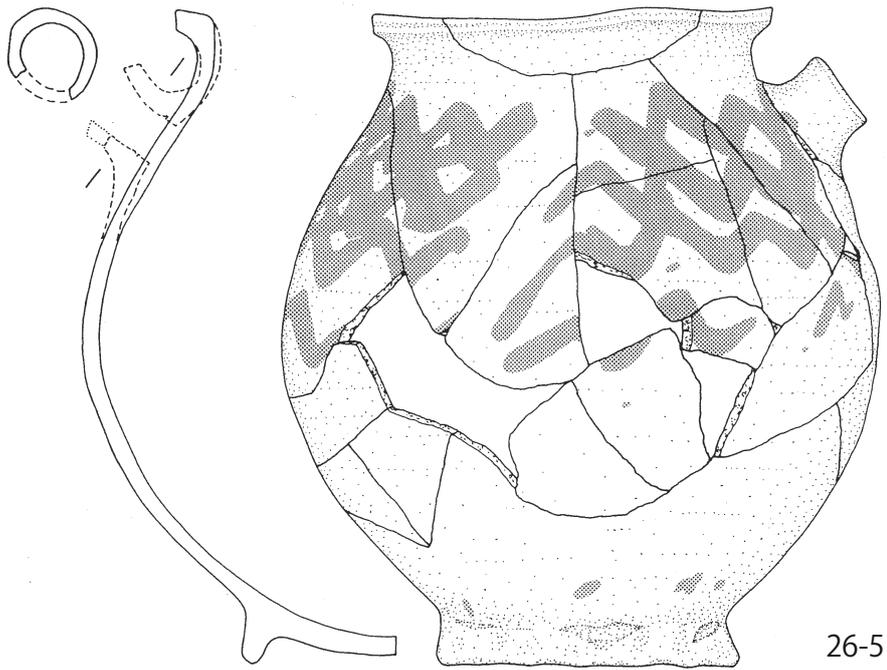


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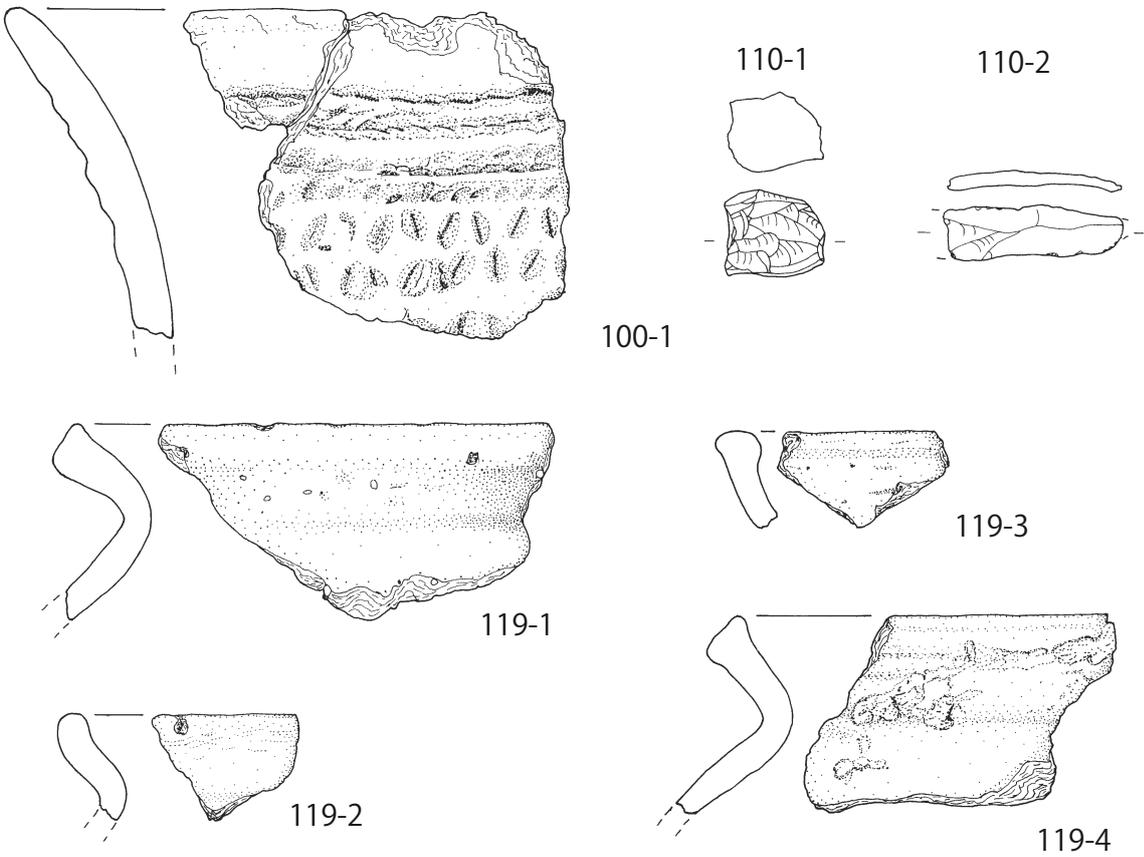
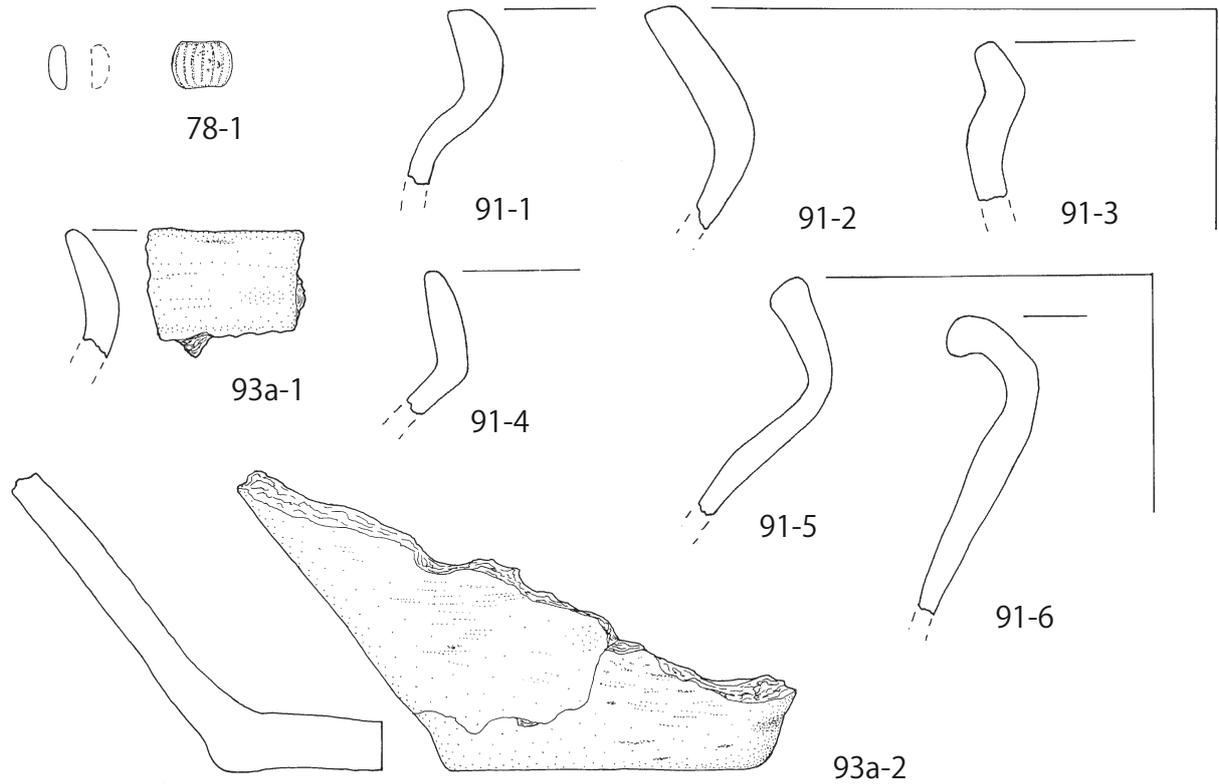
Nortmoorer Hammrich
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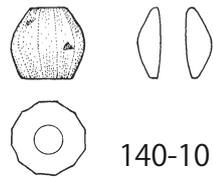
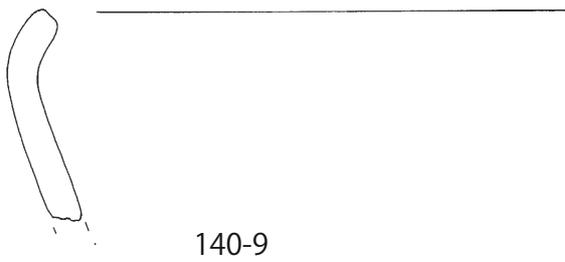
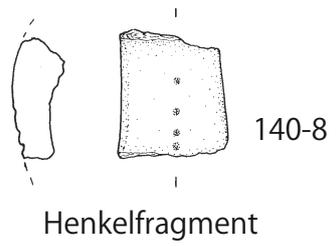
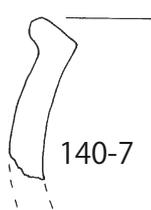
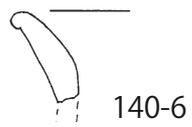
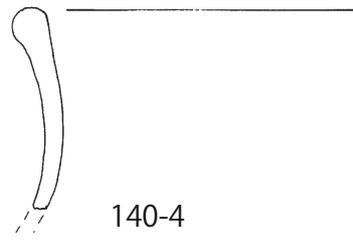
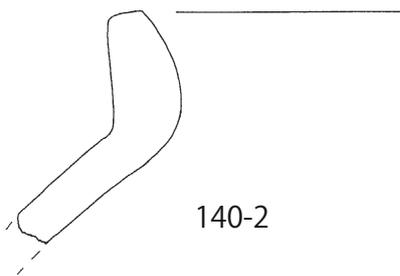
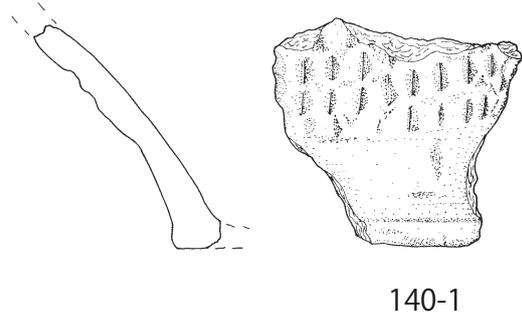
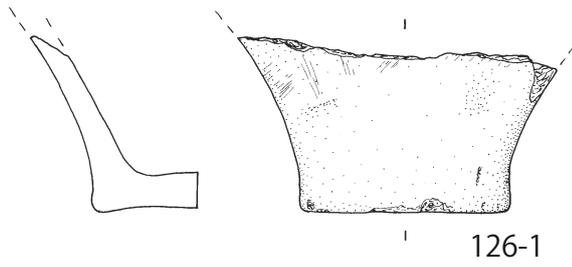
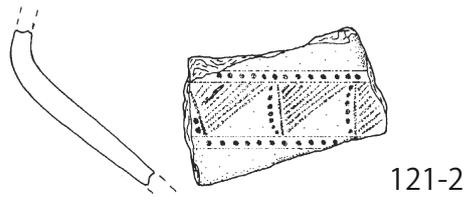
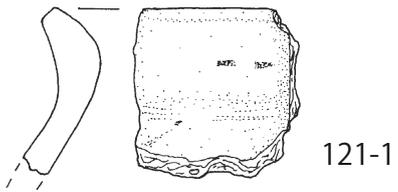


Nortmoorer Hammrich

26-5 u. 26-6 M 1:4



Tafel 13

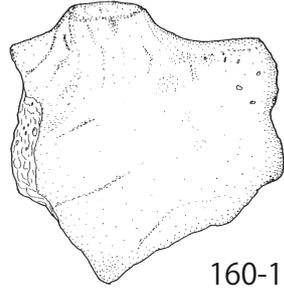
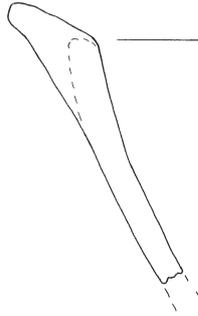


Nortmoorer Hammrich

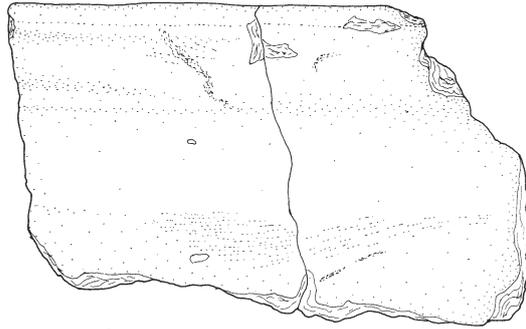
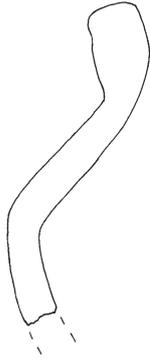
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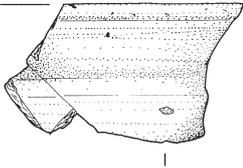
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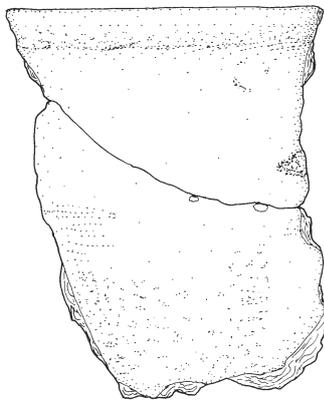


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Terra Nigra



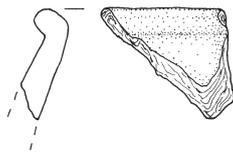
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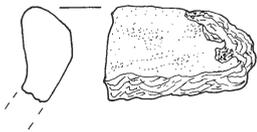
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Nortmoorer Hammrich

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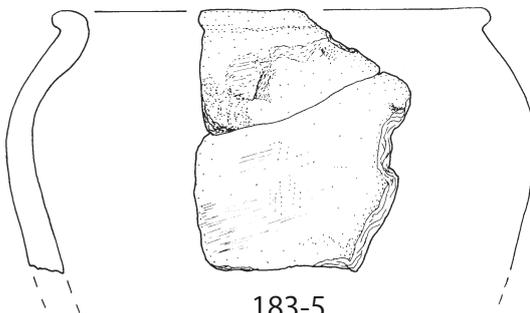
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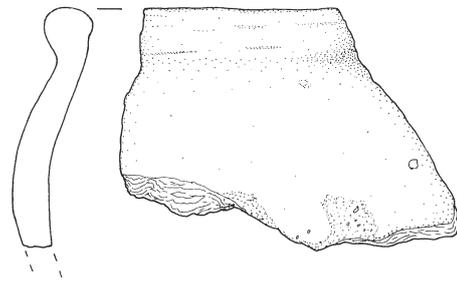
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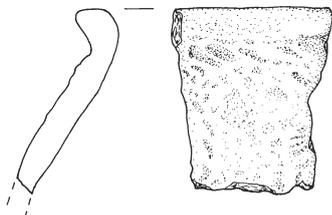
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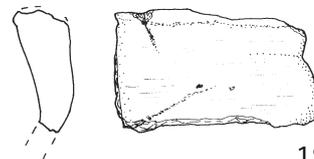
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183-6



183-7



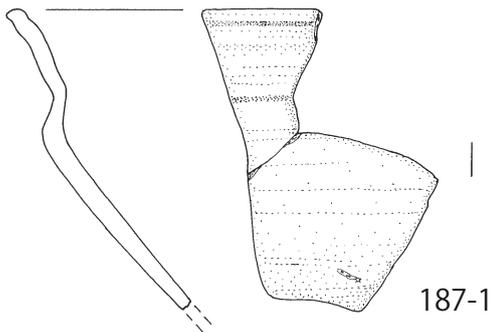
183-8



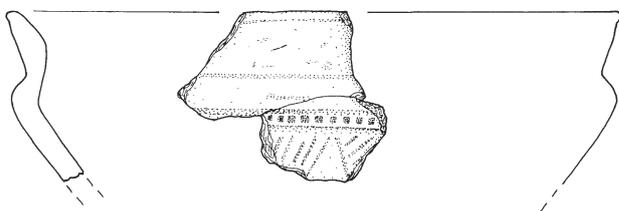
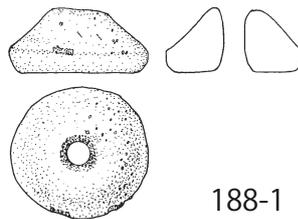
183-9

Nortmoorer Hammrich

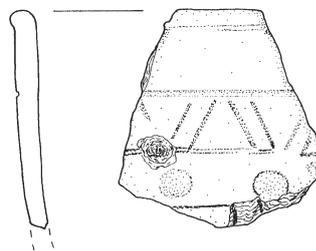
Kat.Nr. 183-4 M 1:4



Terra Nigra

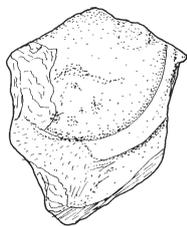


192-1

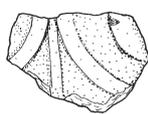


195-1

Terra Sigillata Nachahmung



195-2

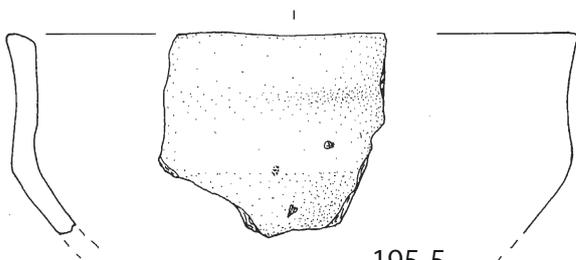


195-3



195-4

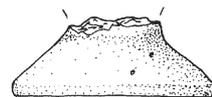
Terra Sigillata Nachahmungen



Terra Nigra

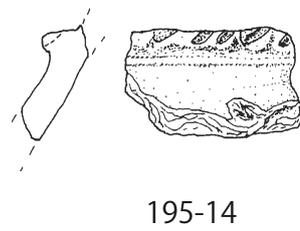
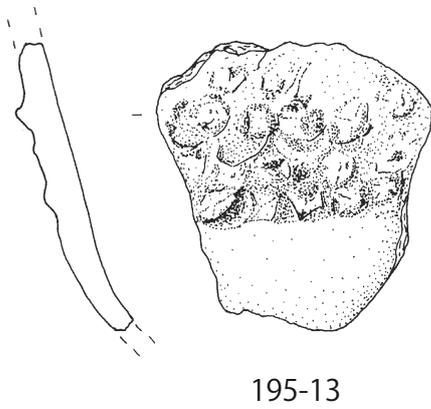
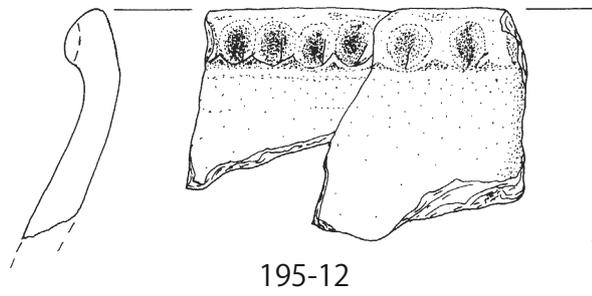
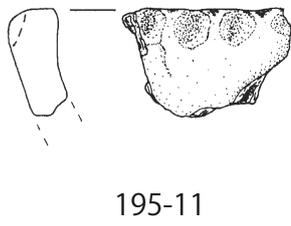
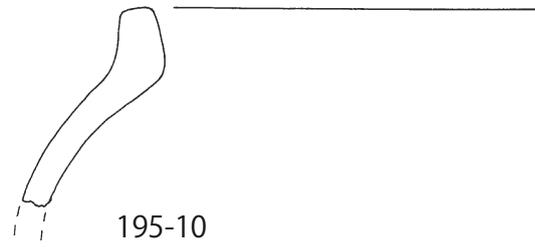
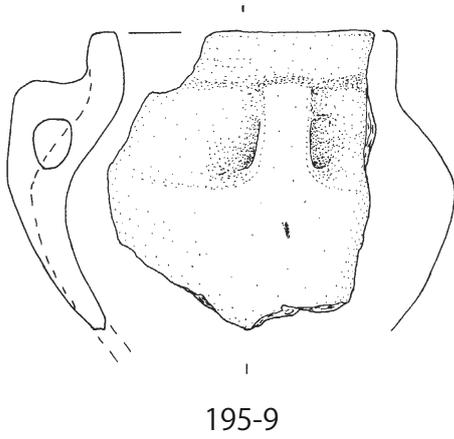
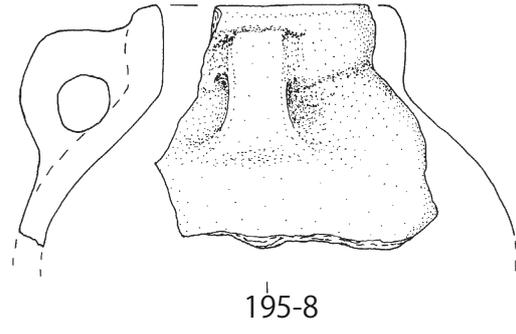
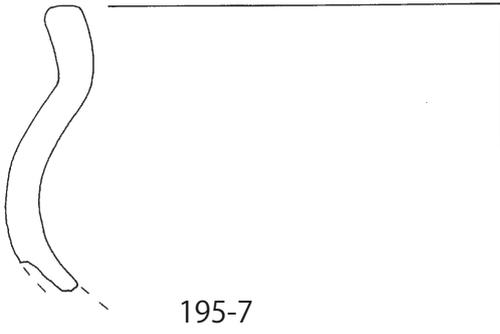


195-6



Nortmoorer Hammrich

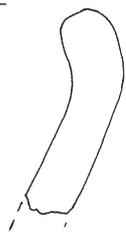
Tafel 17



Tafel 18



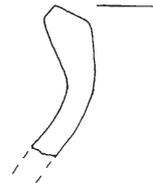
195-15



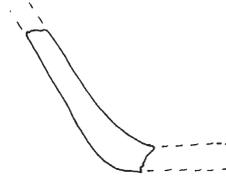
195-16



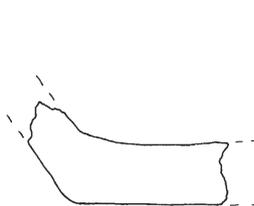
195-17



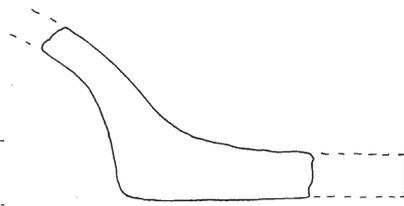
195-18



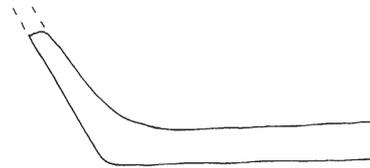
195-19



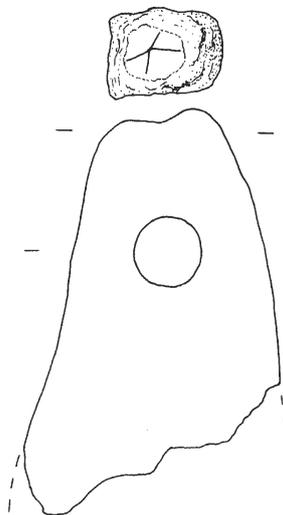
195-20



195-21



195-22

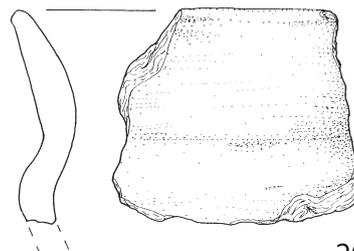


195-23



195-24

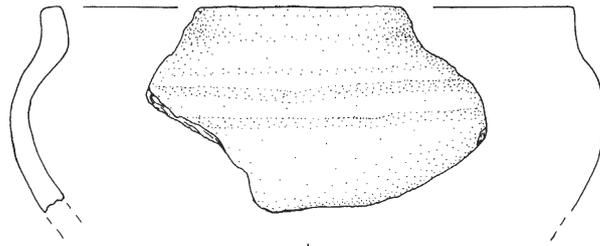
Webgewicht mit
Ritzzeichen (K)



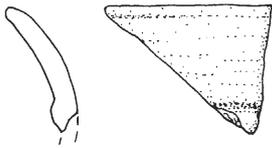
202-1

Nortmoorer Hamrich

Tafel 19

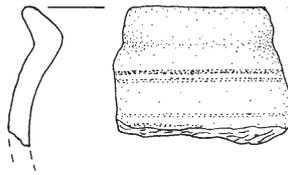


216-1

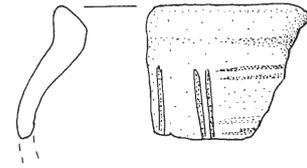


216-2

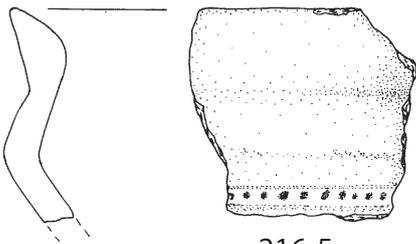
Terra Nigra



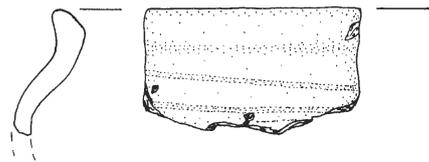
216-3



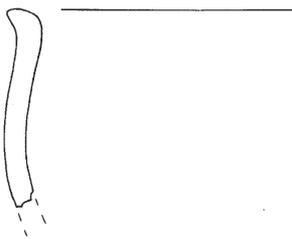
216-4



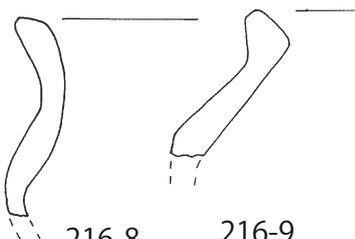
216-5



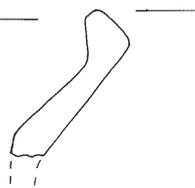
216-6



216-7



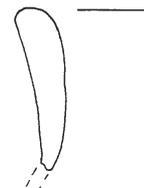
216-8



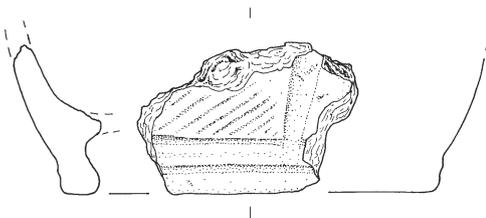
216-9



216-10



216-11



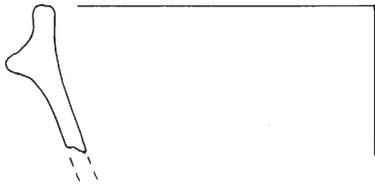
216-12



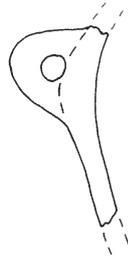
216-13

Nortmoorer Hammrich

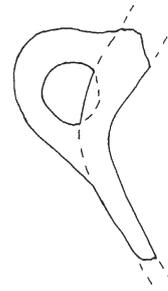
Tafel 20



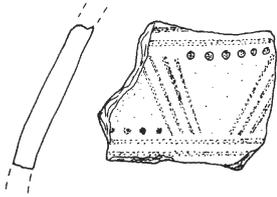
216-14



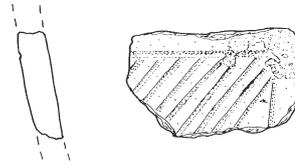
216-15



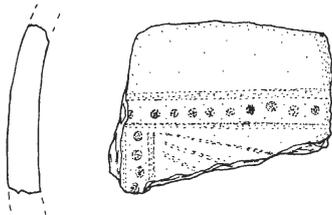
216-16



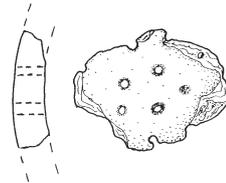
216-17



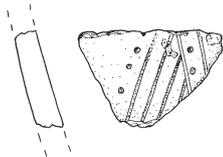
216-18



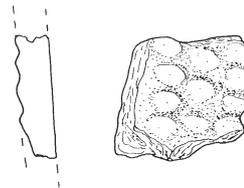
216-19



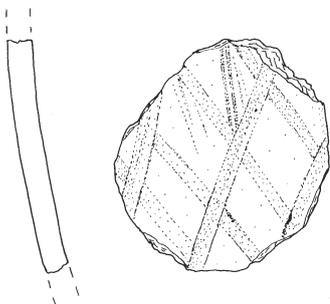
216-20



216-21



216-22

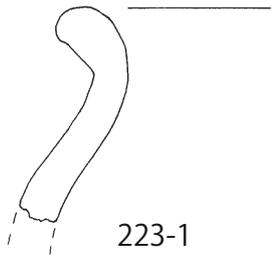


216-23

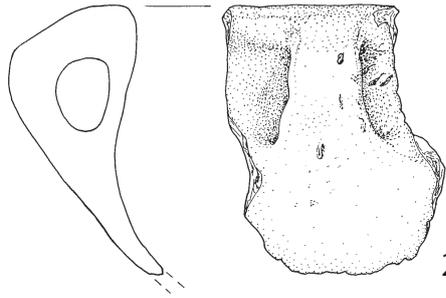


216-24

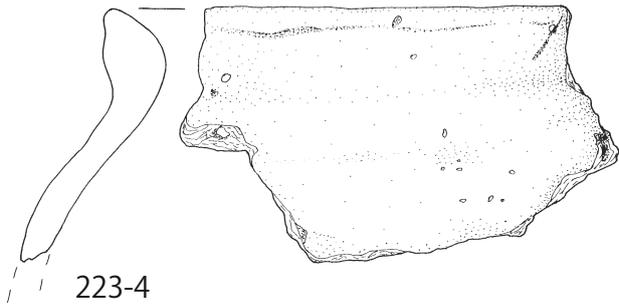
Tafel 21



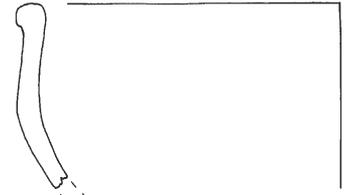
223-1



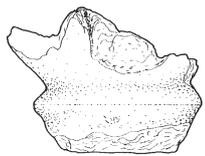
223-2



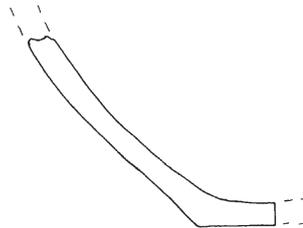
223-4



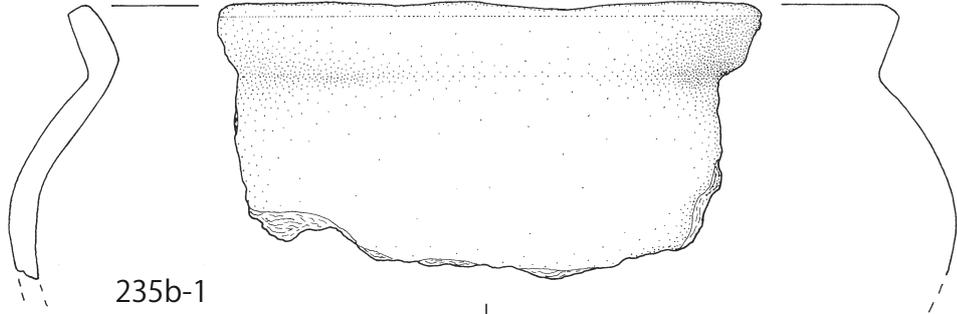
223-3



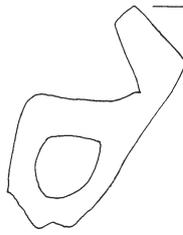
223-5



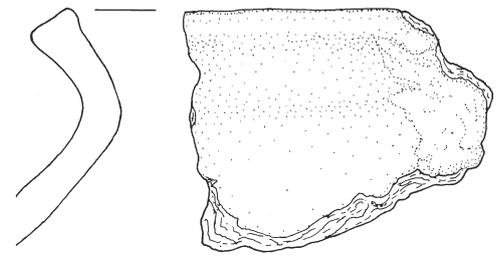
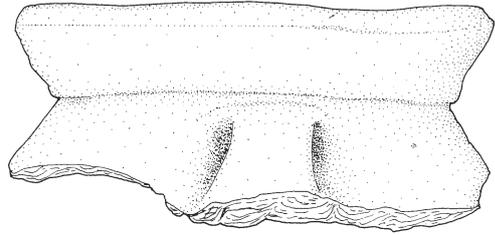
223-6



235b-1

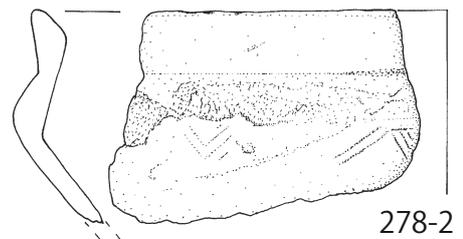
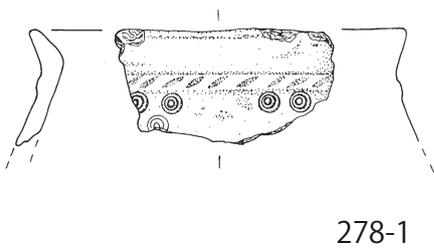
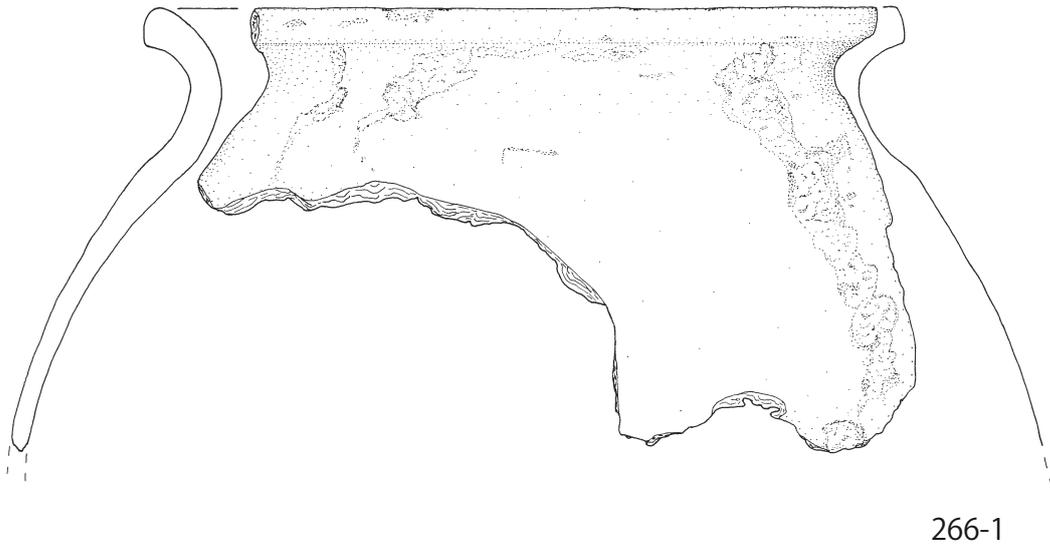
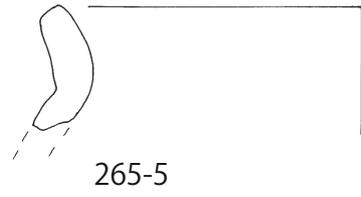
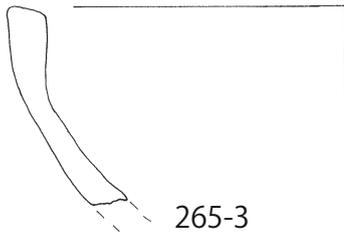
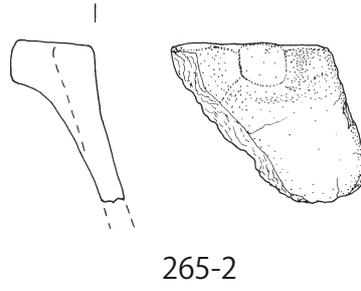
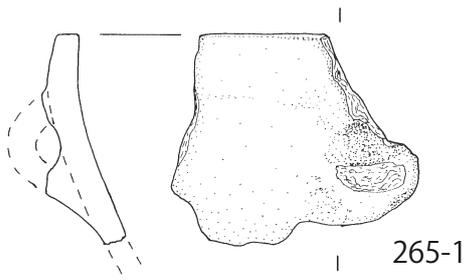


235b-2



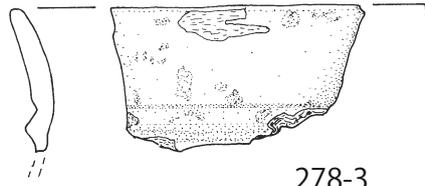
243-1

Tafel 22

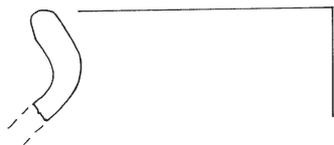


Nortmoorer Hamrich

Tafel 23



278-3



278-4



278-5



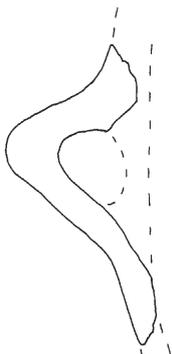
278-6



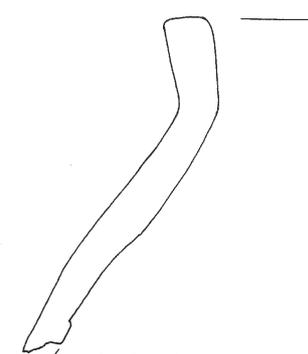
278-7



278-8



278-9



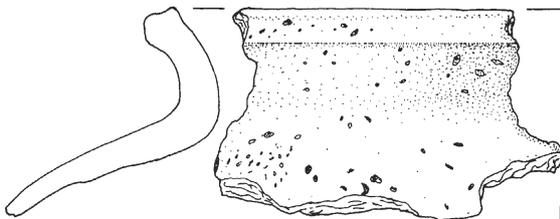
278-10



278-11



278-12



278-13

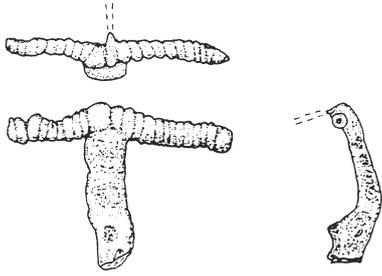


278-14

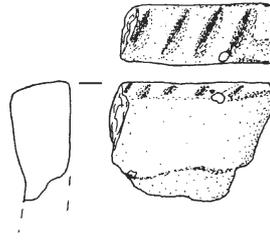


278-15

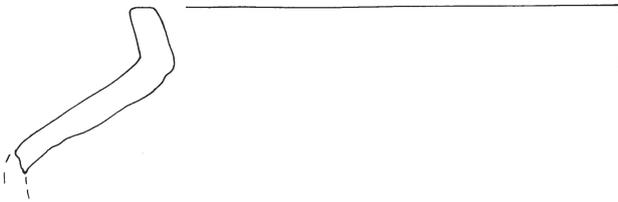
Nortmoorer Hammrich



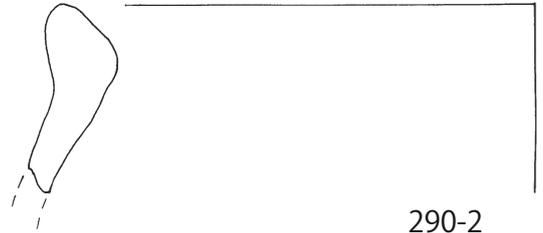
278-16
M 1:1



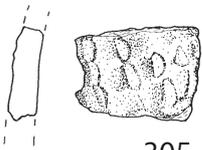
278-17



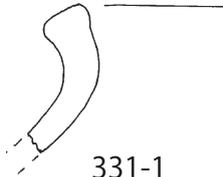
290-1



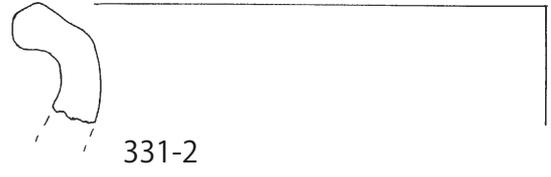
290-2



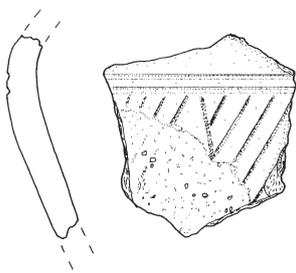
305-1



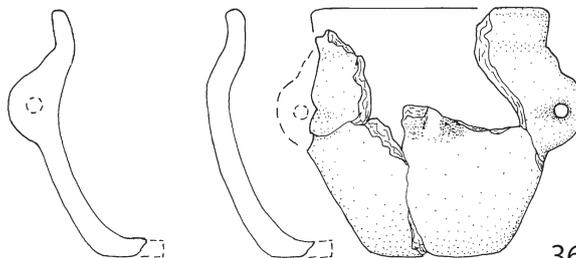
331-1



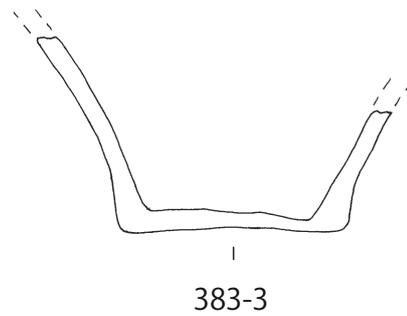
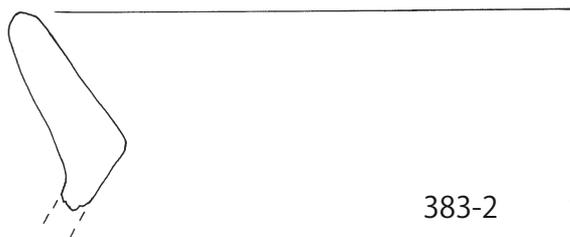
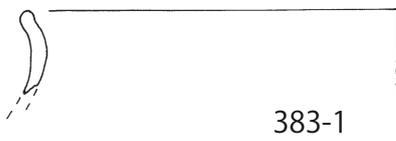
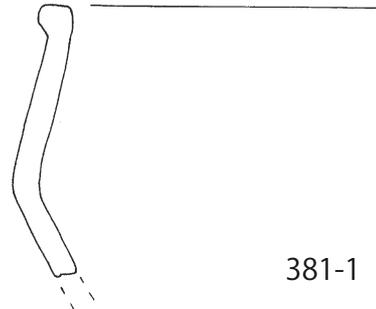
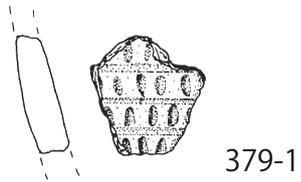
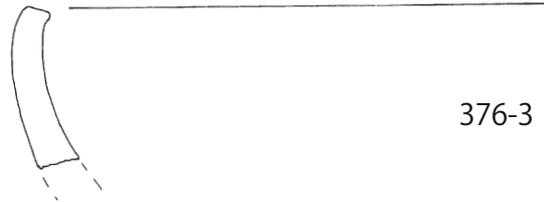
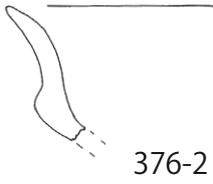
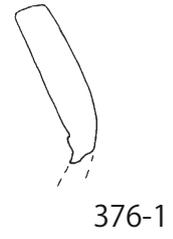
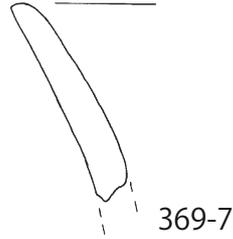
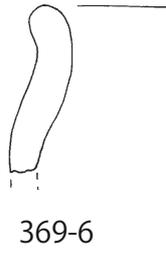
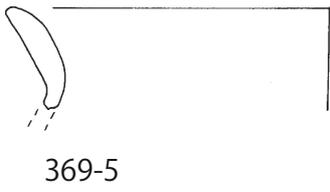
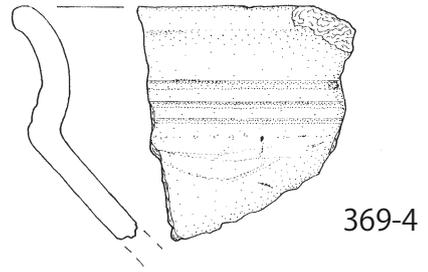
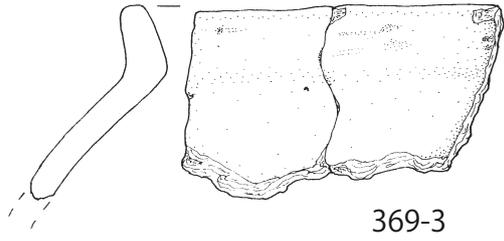
331-2



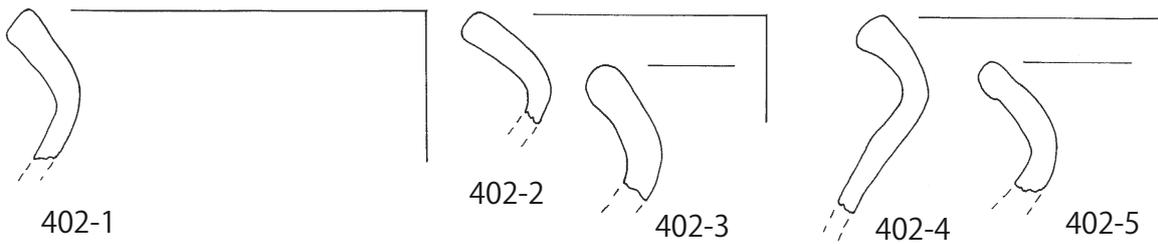
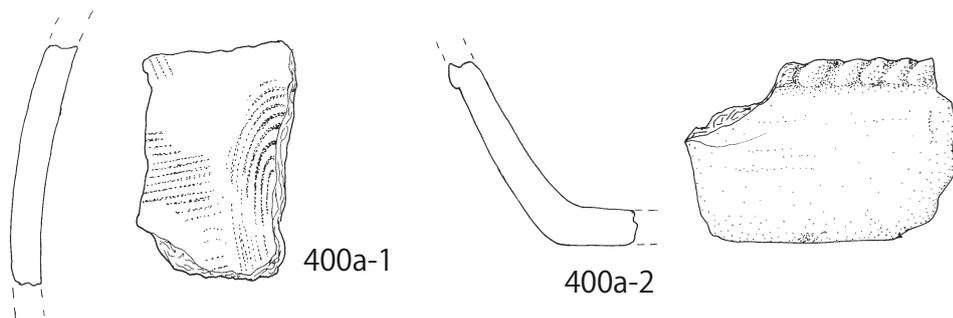
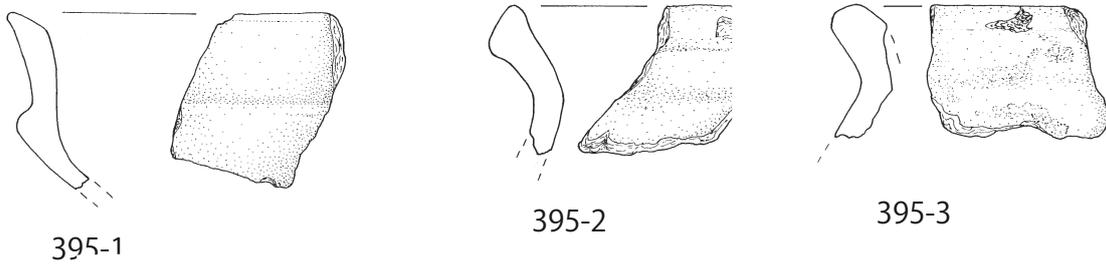
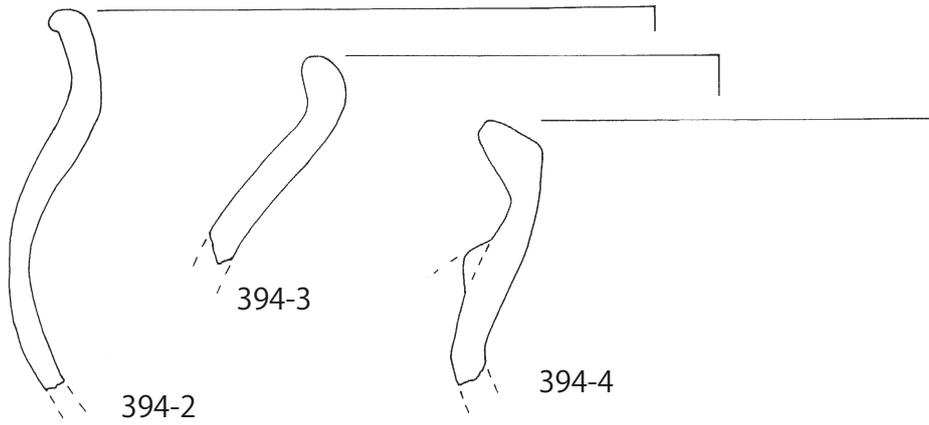
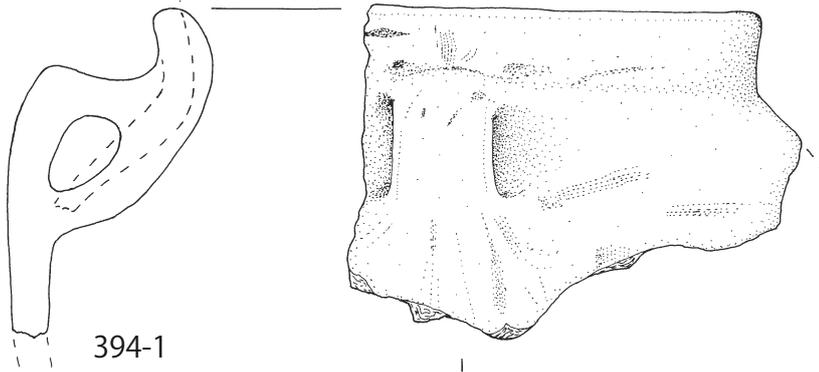
369-1



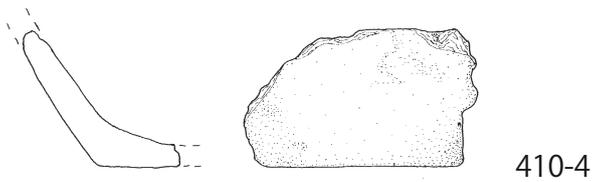
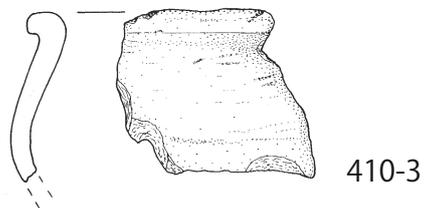
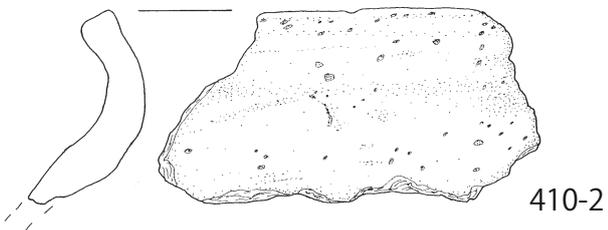
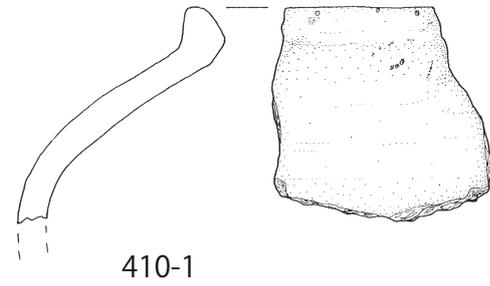
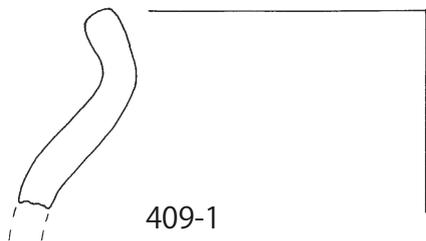
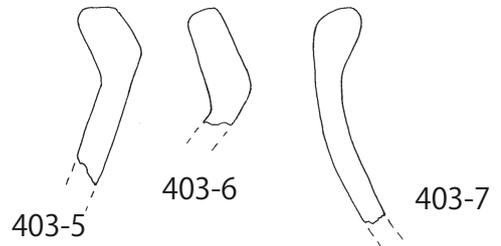
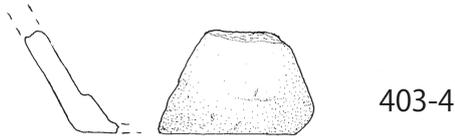
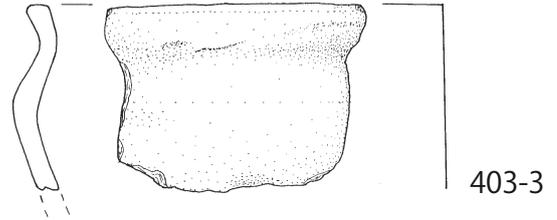
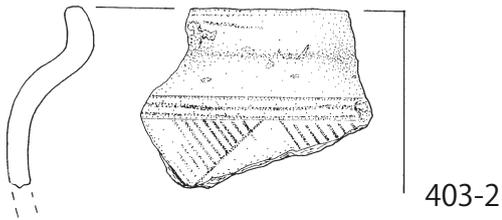
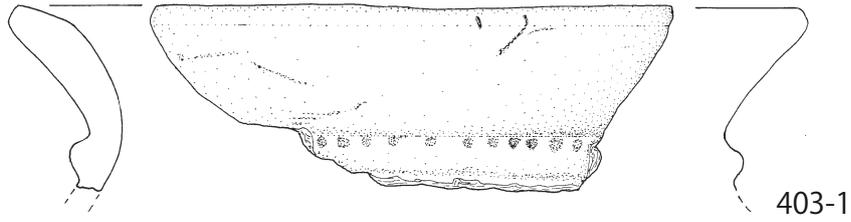
369-2



Tafel 26



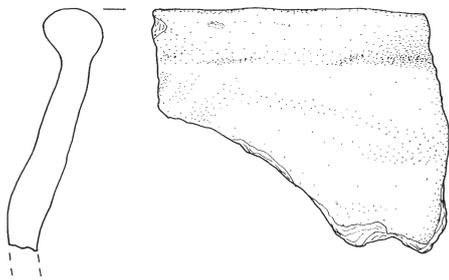
Tafel 27



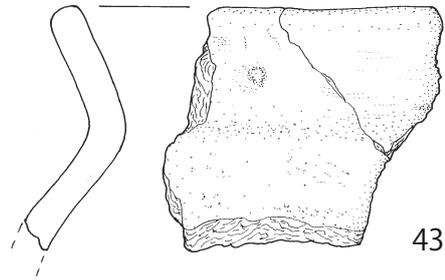
Tafel 28



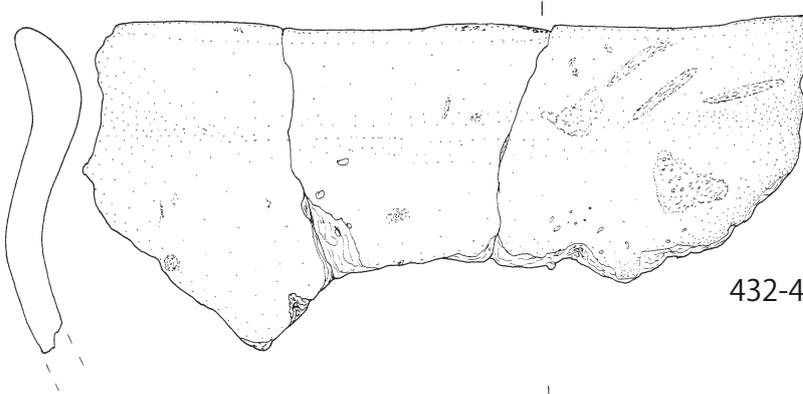
432-1



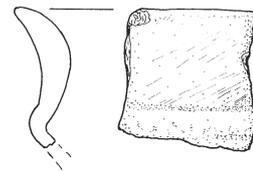
432-2



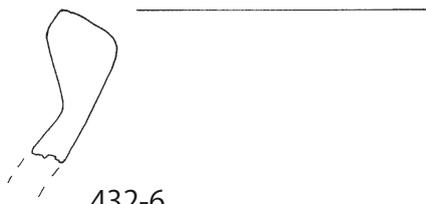
432-3



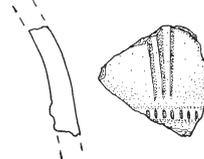
432-4



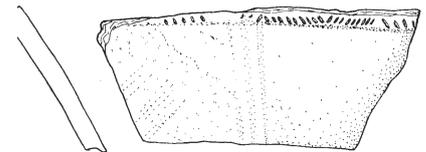
432-5



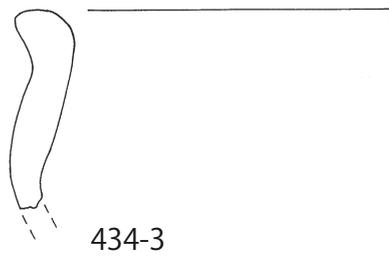
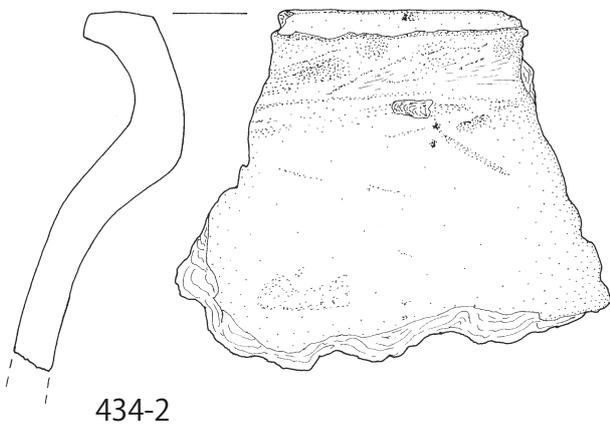
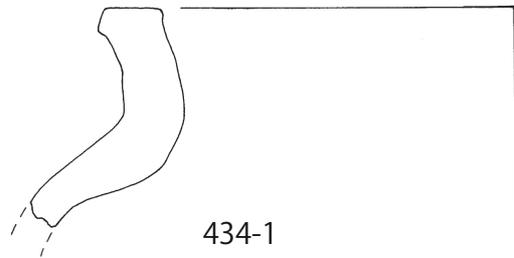
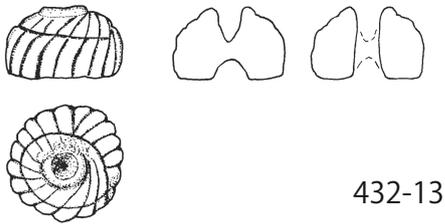
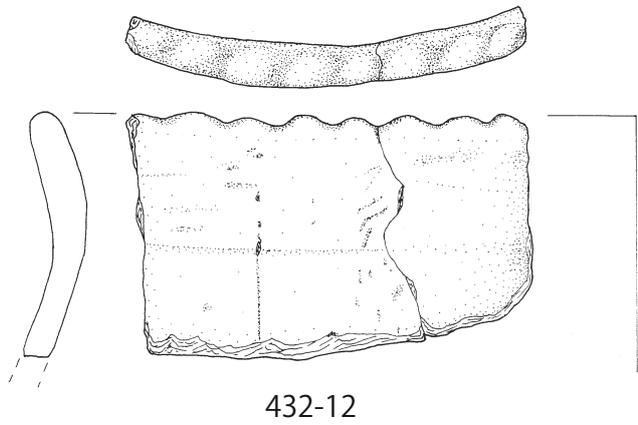
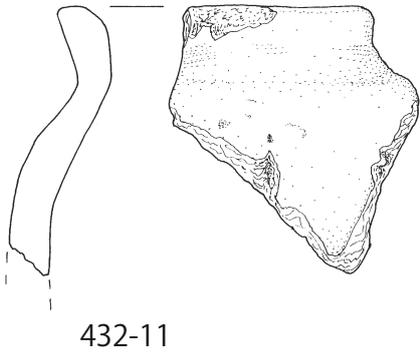
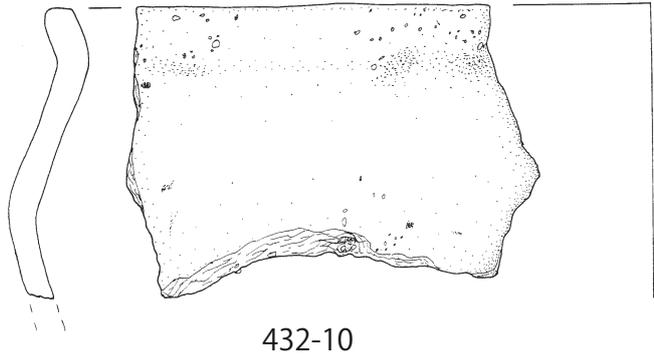
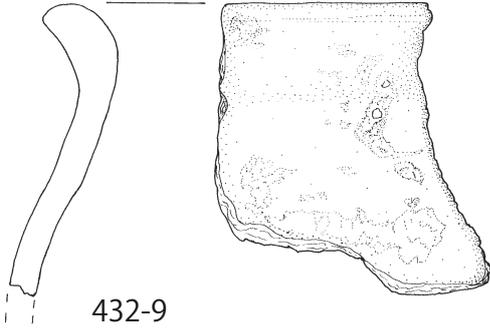
432-6



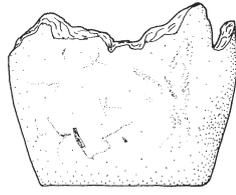
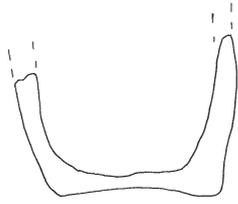
432-7



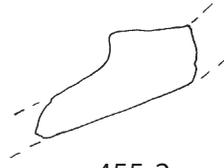
432-8



Tafel 30



455-1



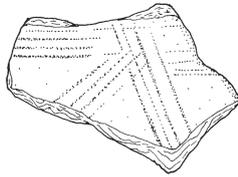
455-2



455-3



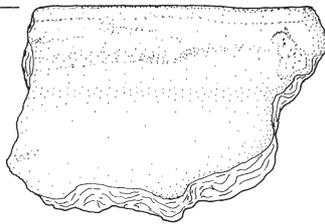
463-1



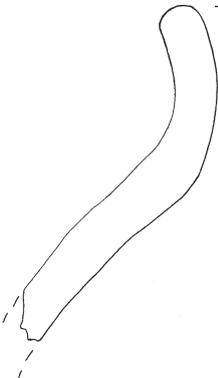
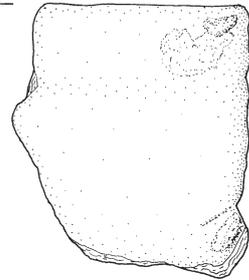
463-2



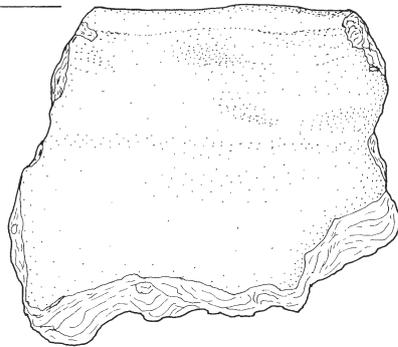
463-3



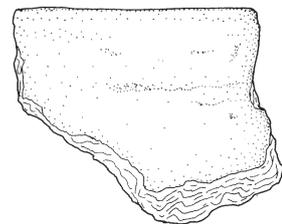
463-4



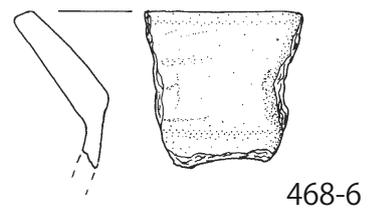
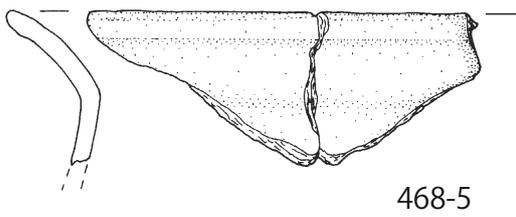
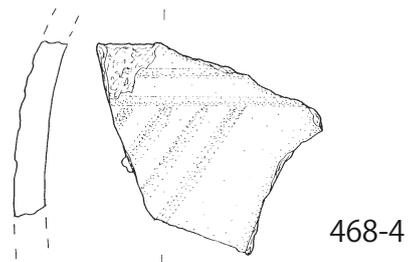
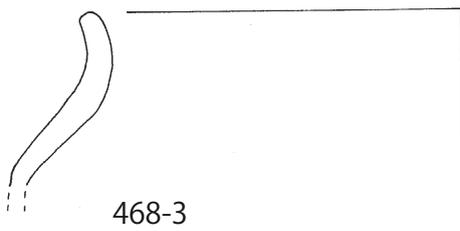
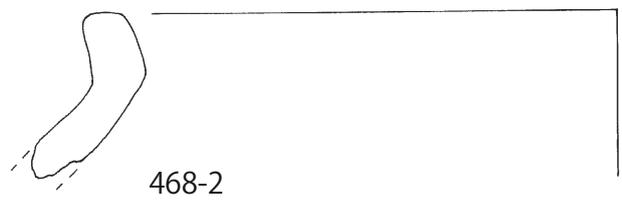
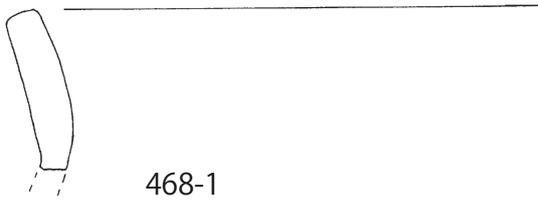
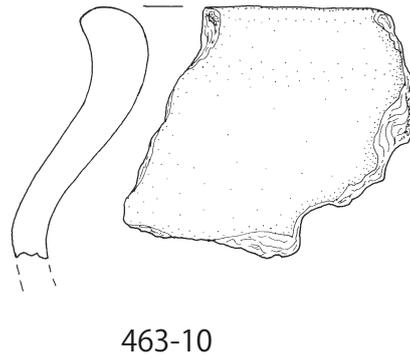
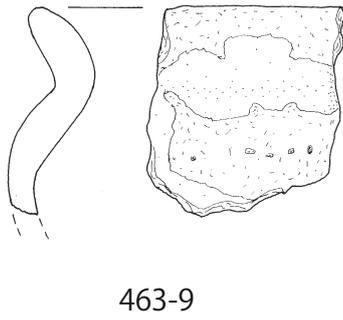
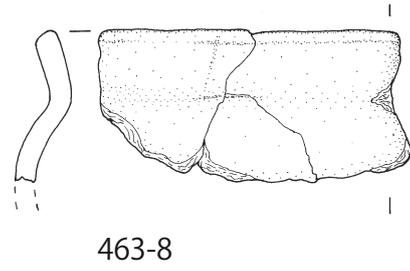
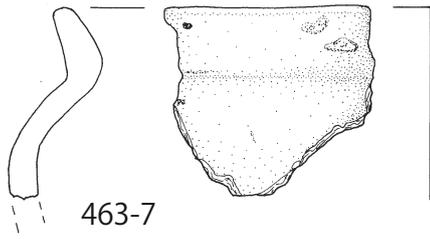
463-5

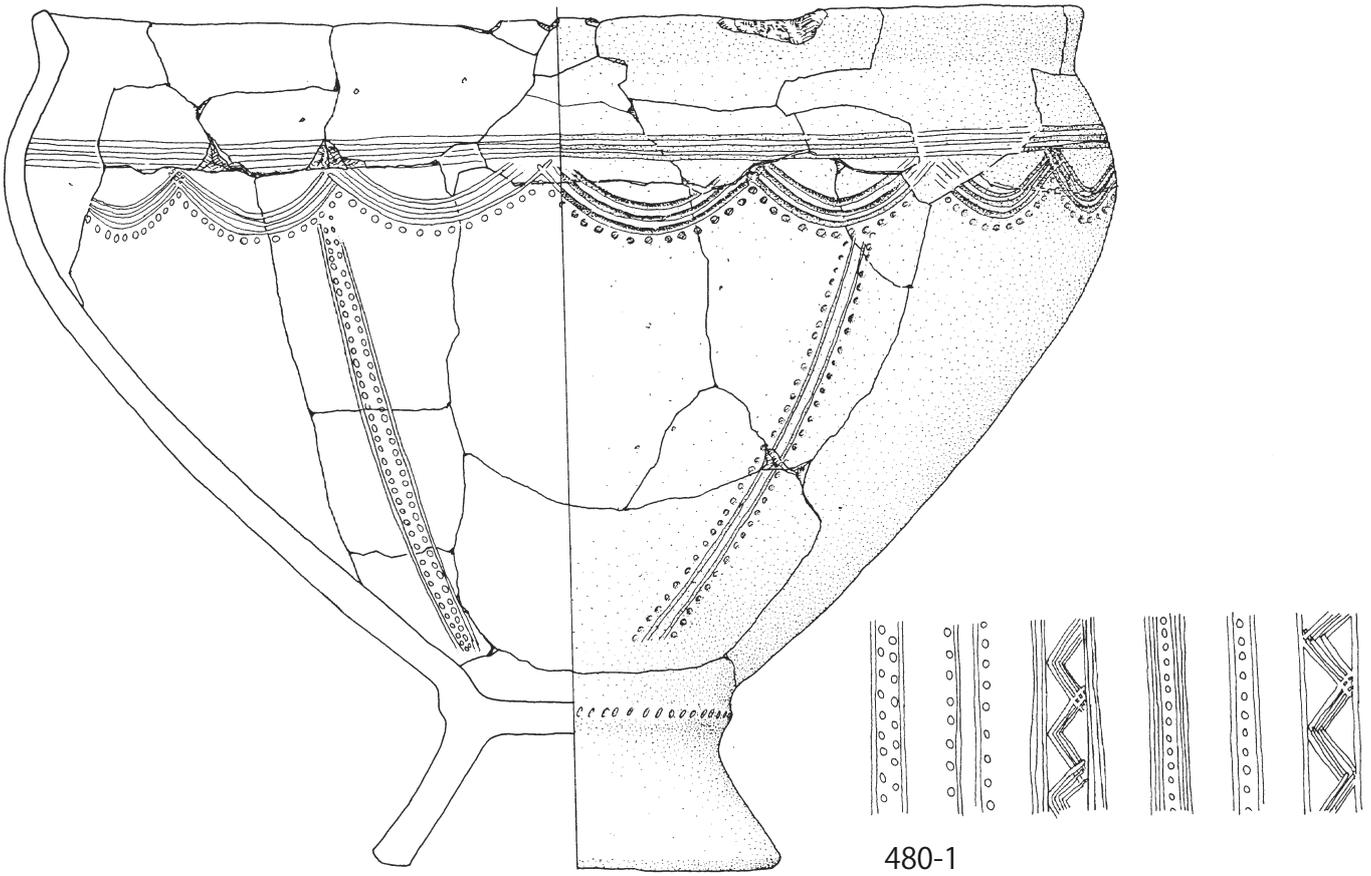


463-6

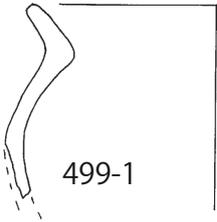


Tafel 31

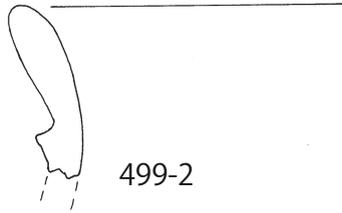




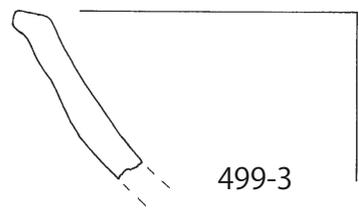
480-1



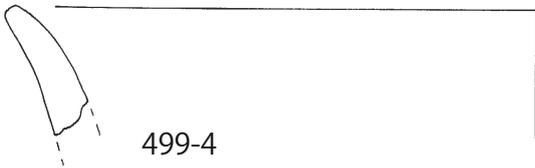
499-1



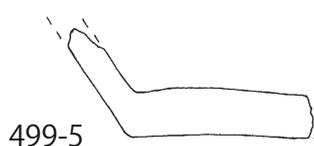
499-2



499-3



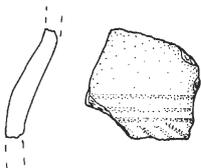
499-4



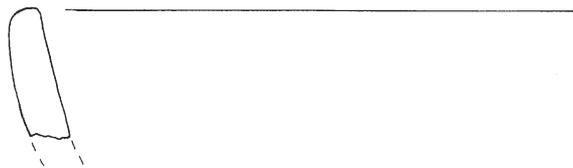
499-5



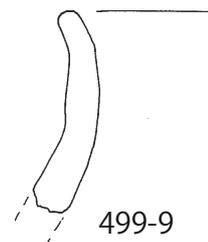
499-6



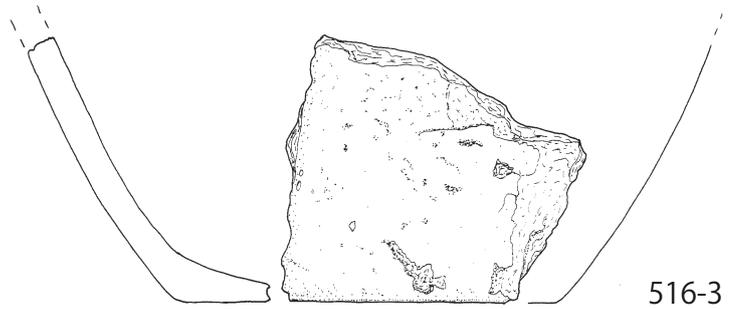
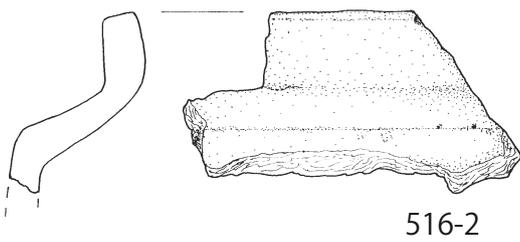
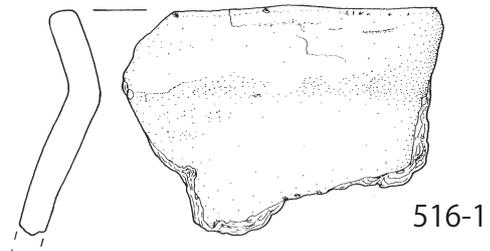
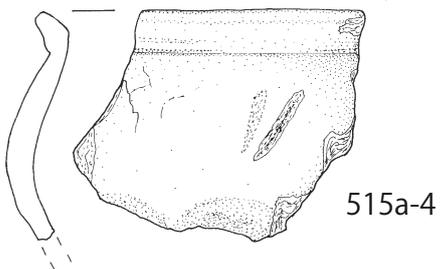
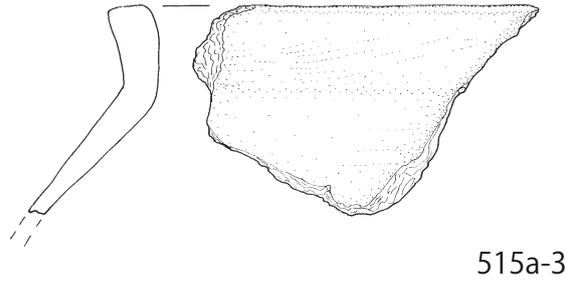
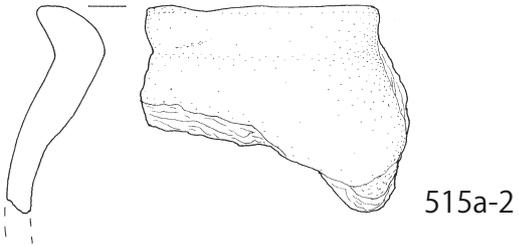
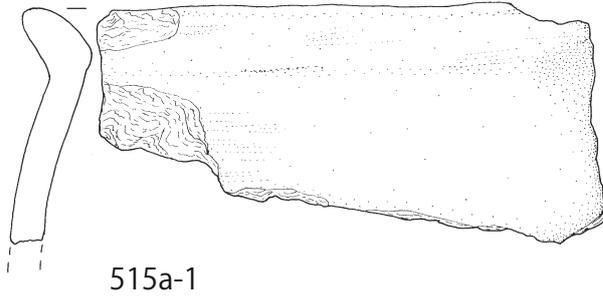
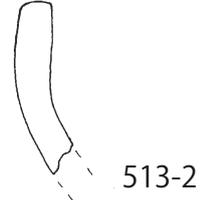
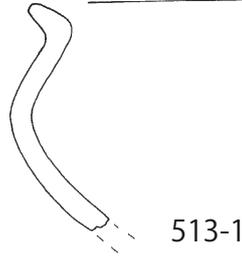
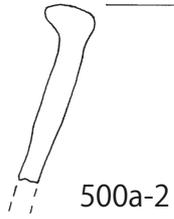
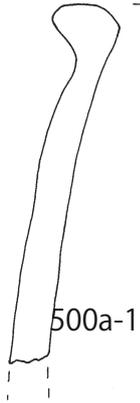
499-7



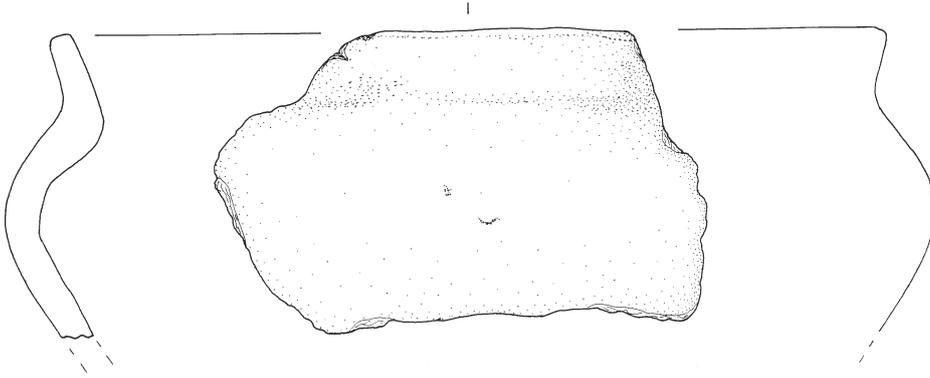
499-8



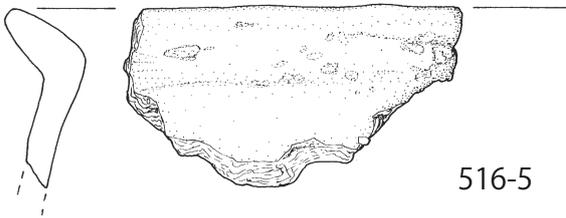
499-9



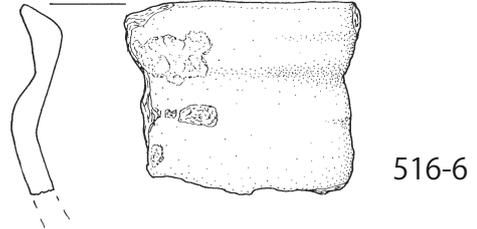
Tafel 34



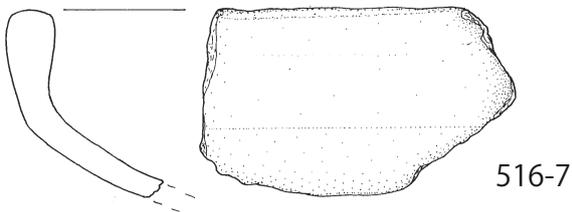
516-4



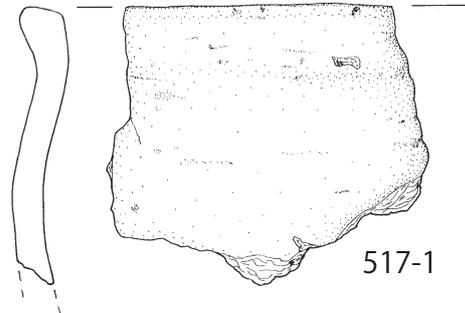
516-5



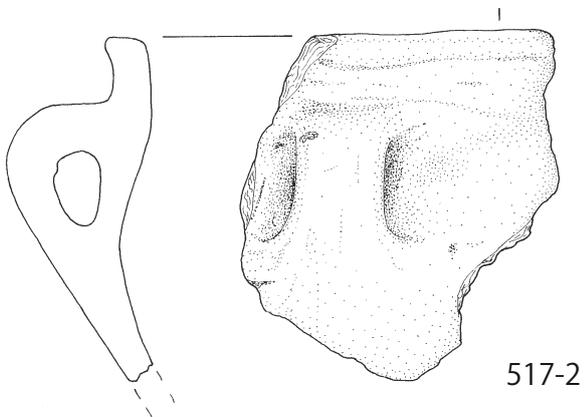
516-6



516-7



517-1



517-2



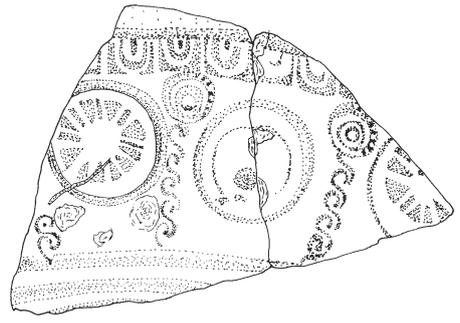
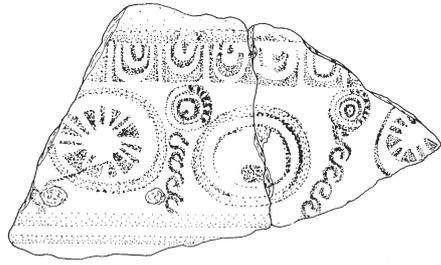
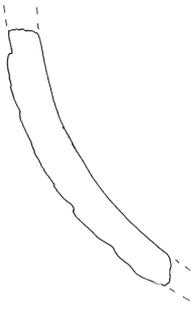
517-3



517-4



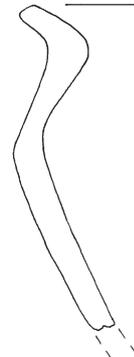
517-5



520-1

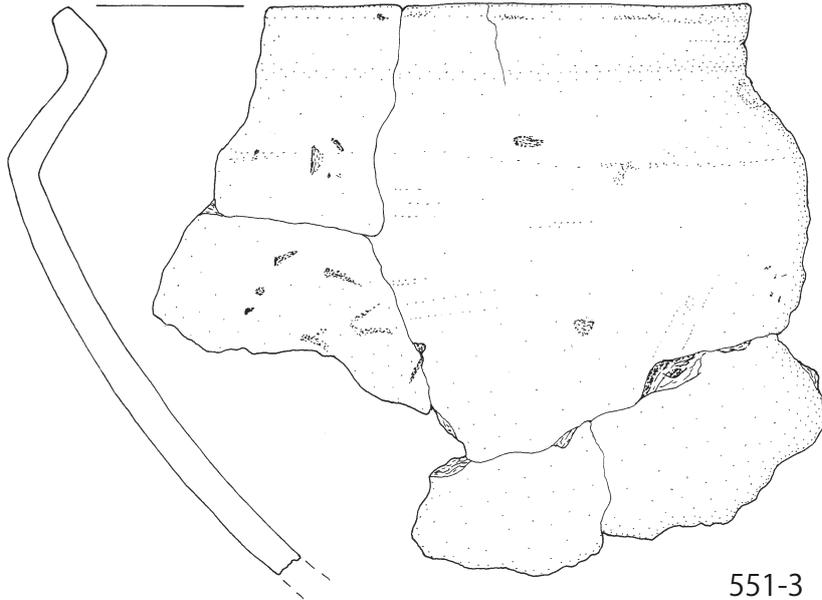
Terra Sigillata Nachahmung

Aufsicht (520-1)



551-1

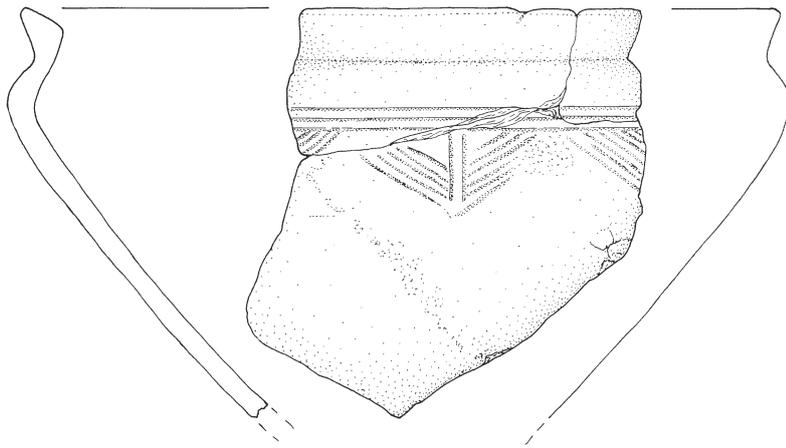
551-2



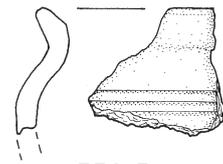
551-3

Nortmoorer Hamrich

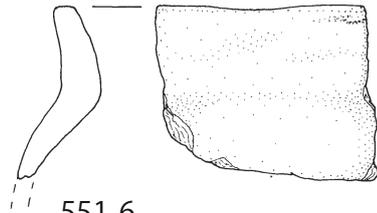
Tafel 36



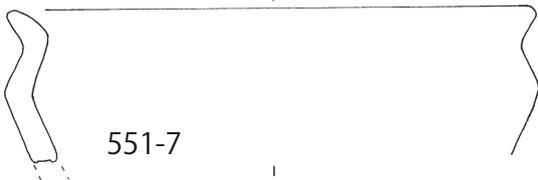
551-4



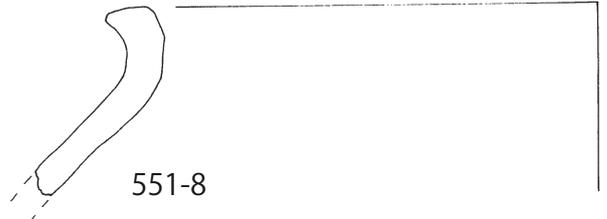
551-5



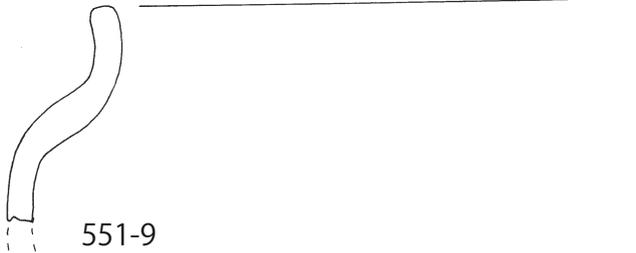
551-6



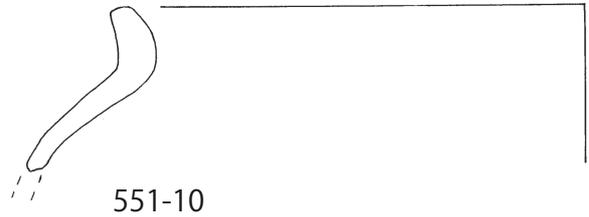
551-7



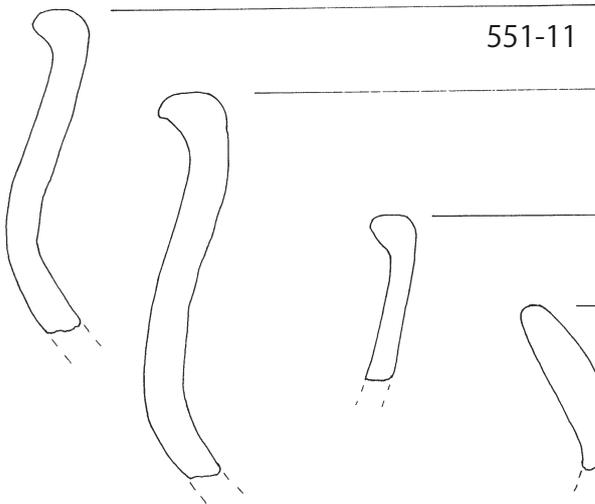
551-8



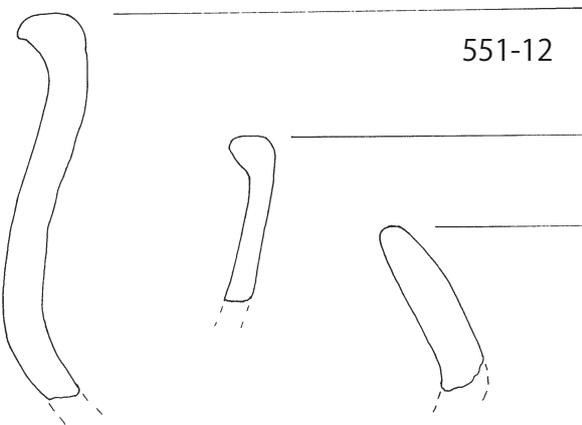
551-9



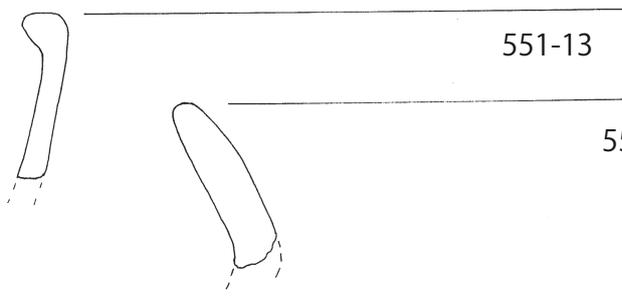
551-10



551-11



551-12

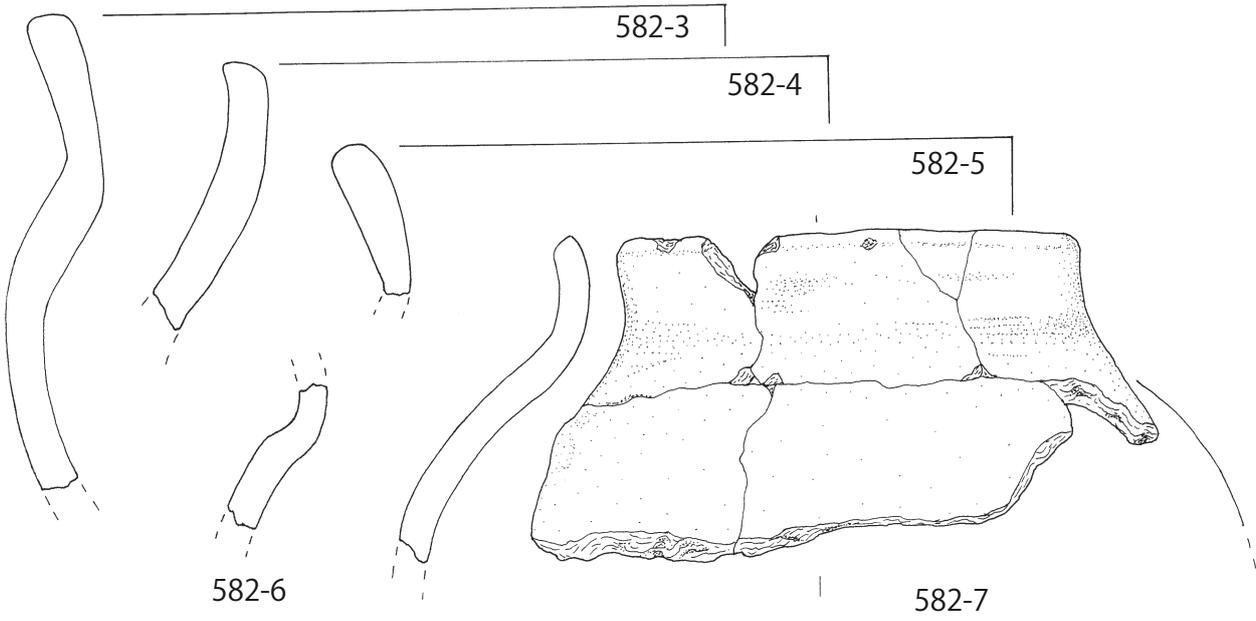
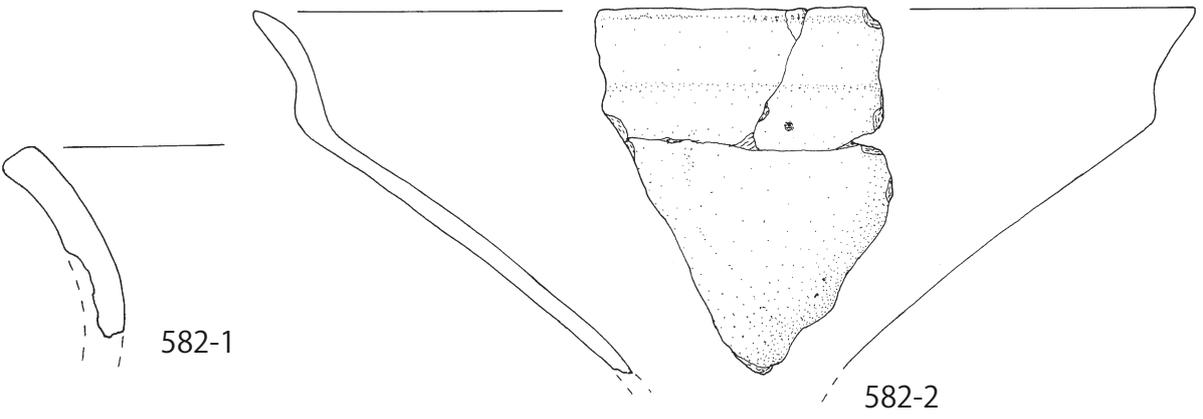
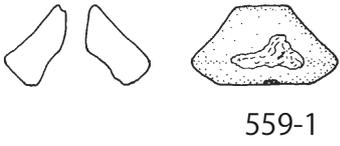
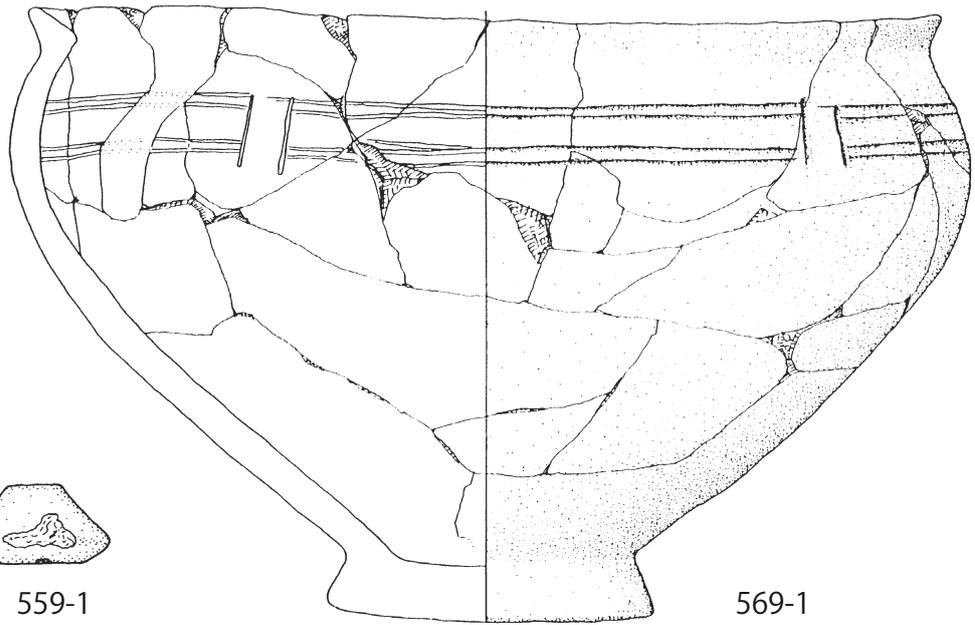


551-13



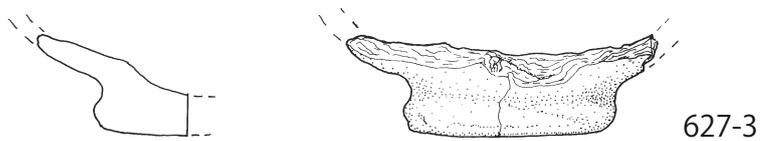
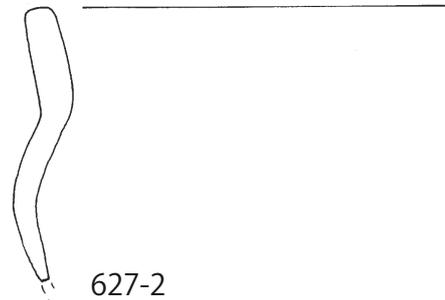
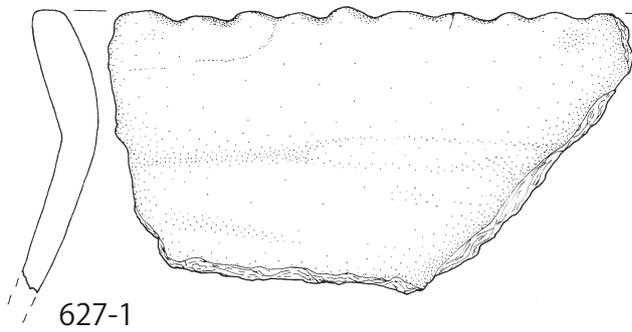
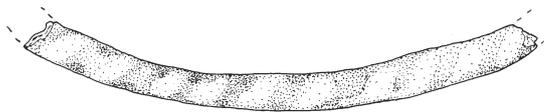
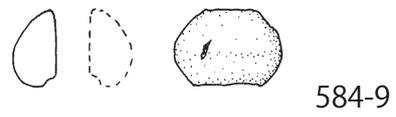
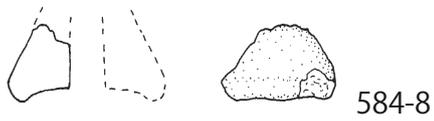
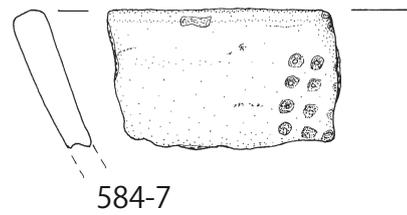
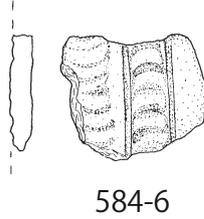
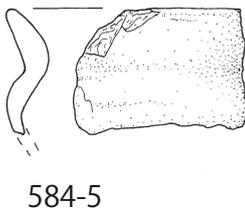
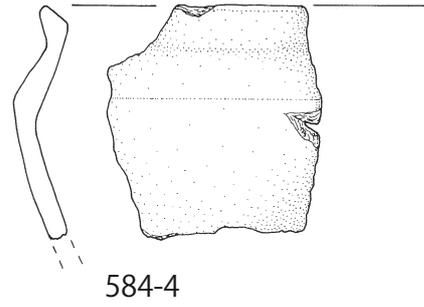
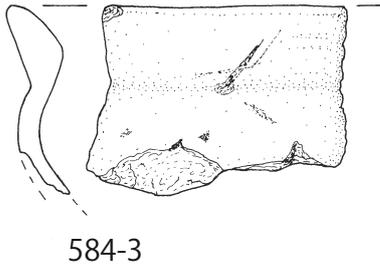
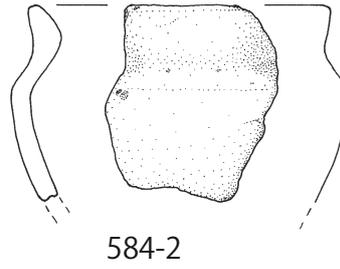
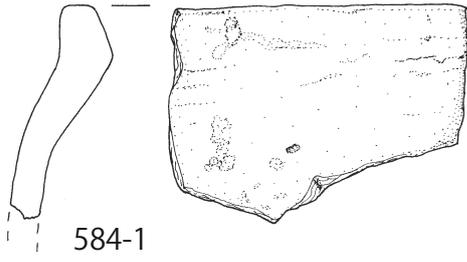
551-14

Nortmoorer Hammrich



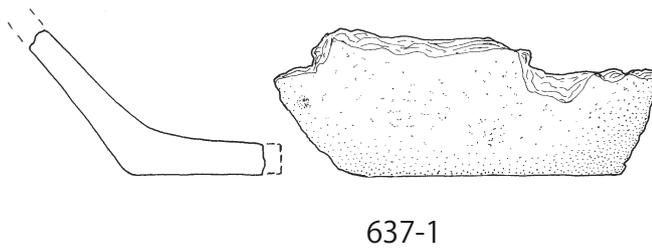
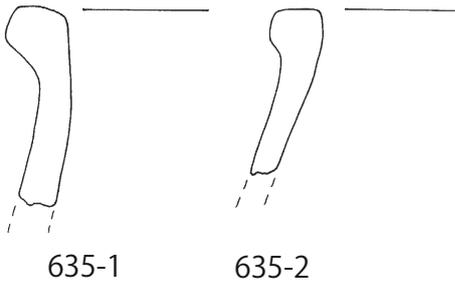
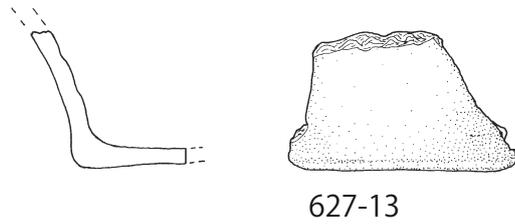
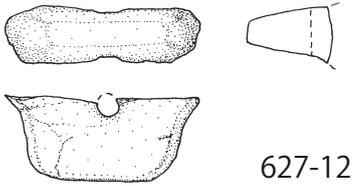
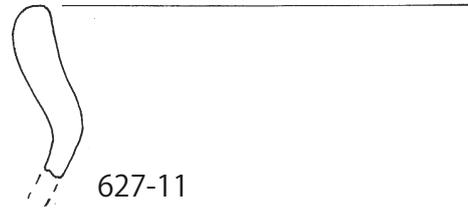
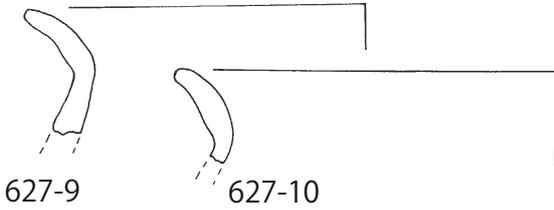
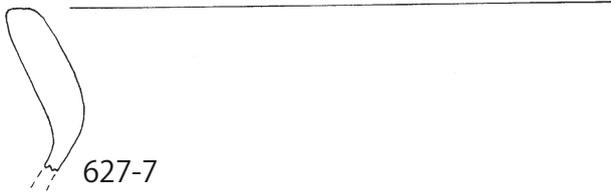
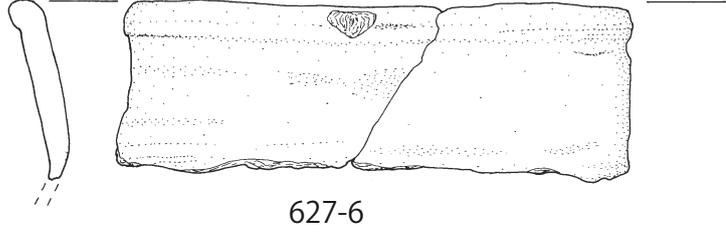
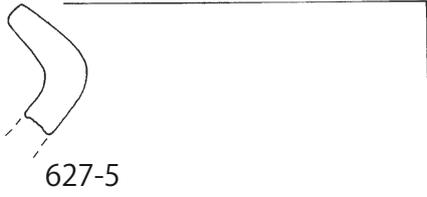
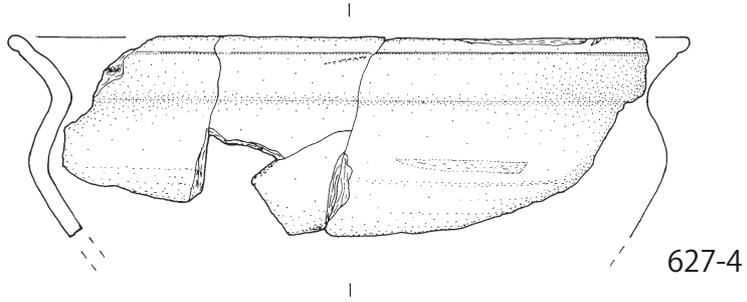
582-6
Schulterfragment

Nortmoorer Hammrich



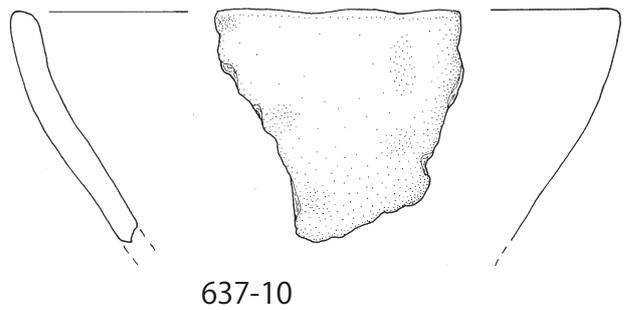
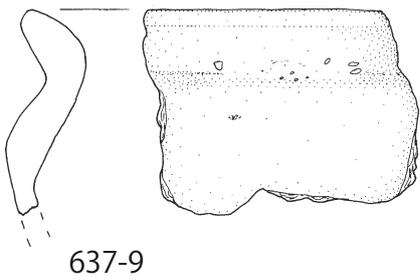
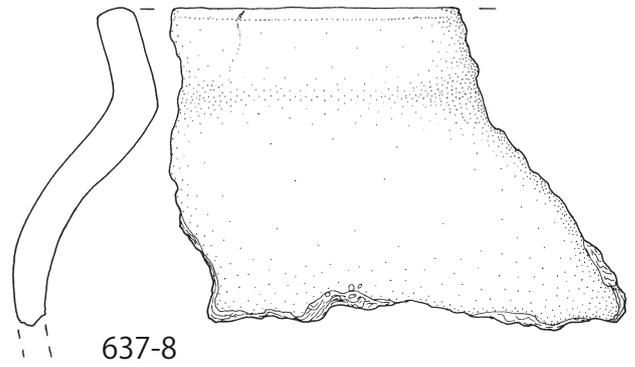
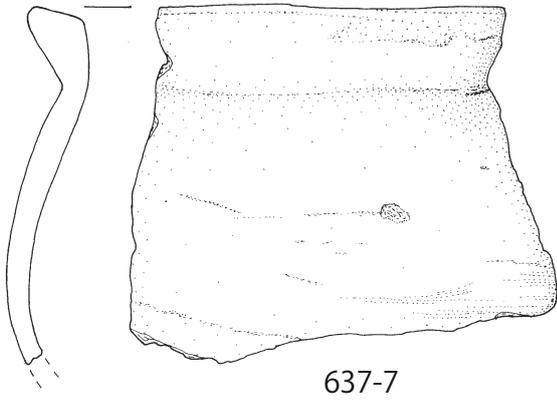
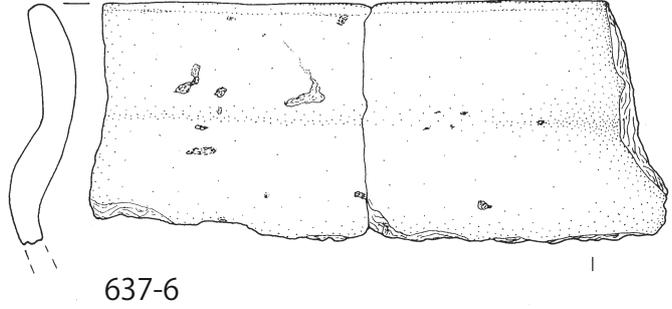
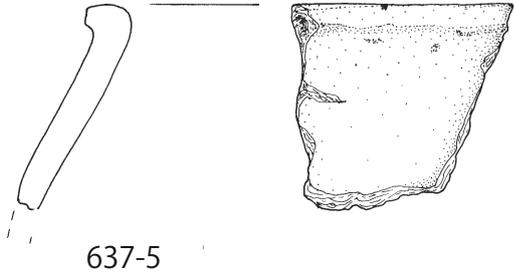
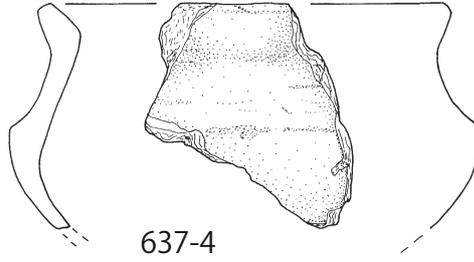
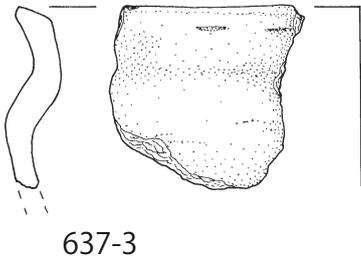
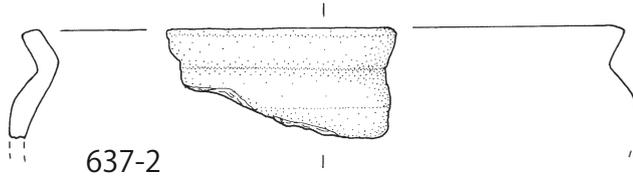
Nortmoorer Hammrich

Tafel 39



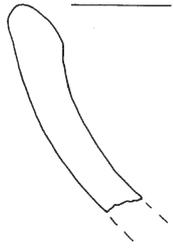
Nortmoorer Hammrich

Tafel 40



Nortmoorer Hammrich

Tafel 41



653-1



653-2



653-3



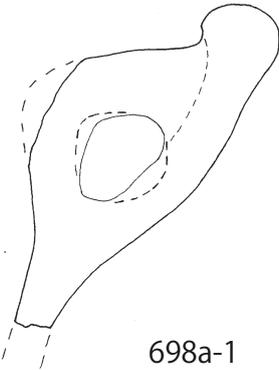
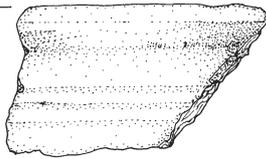
670-1



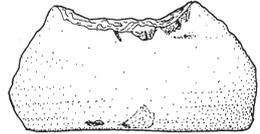
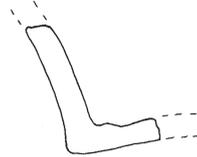
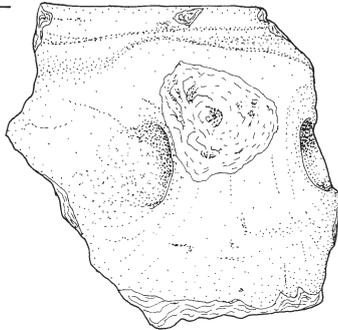
670-2



681-1



698a-1



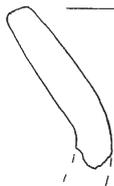
698a-2



702-1



702-2



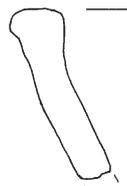
702-3



702-4

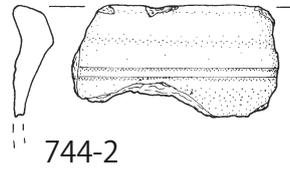
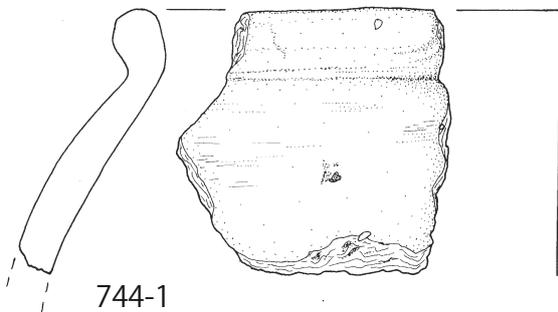
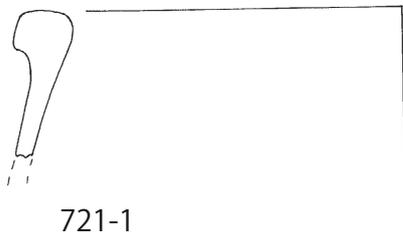
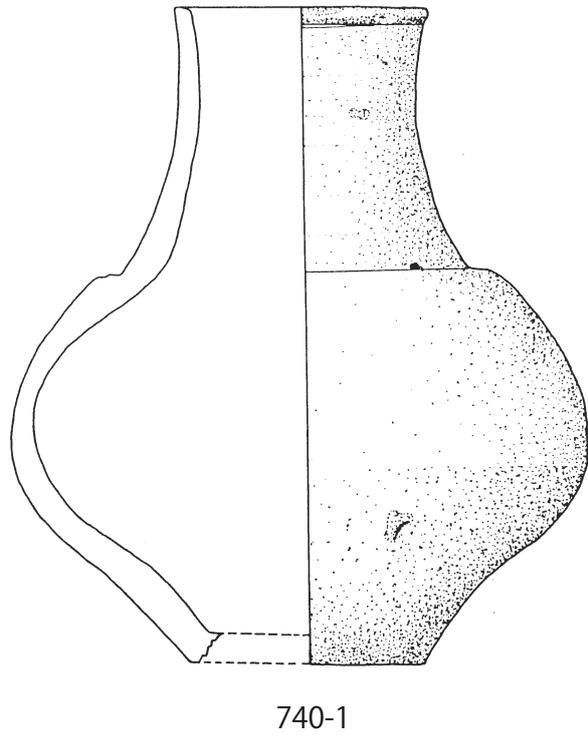
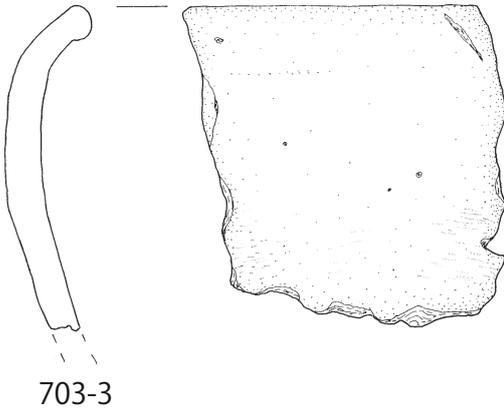
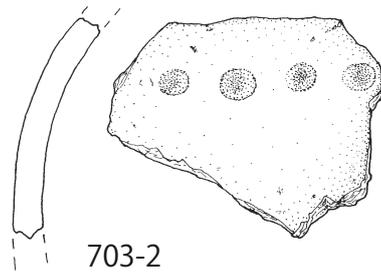
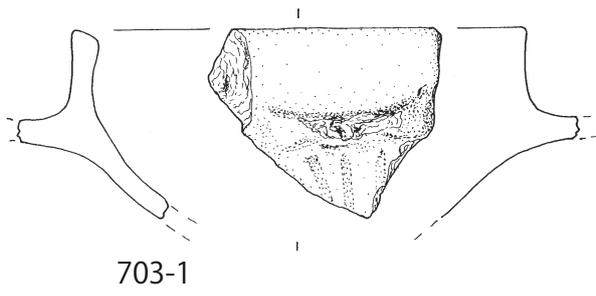


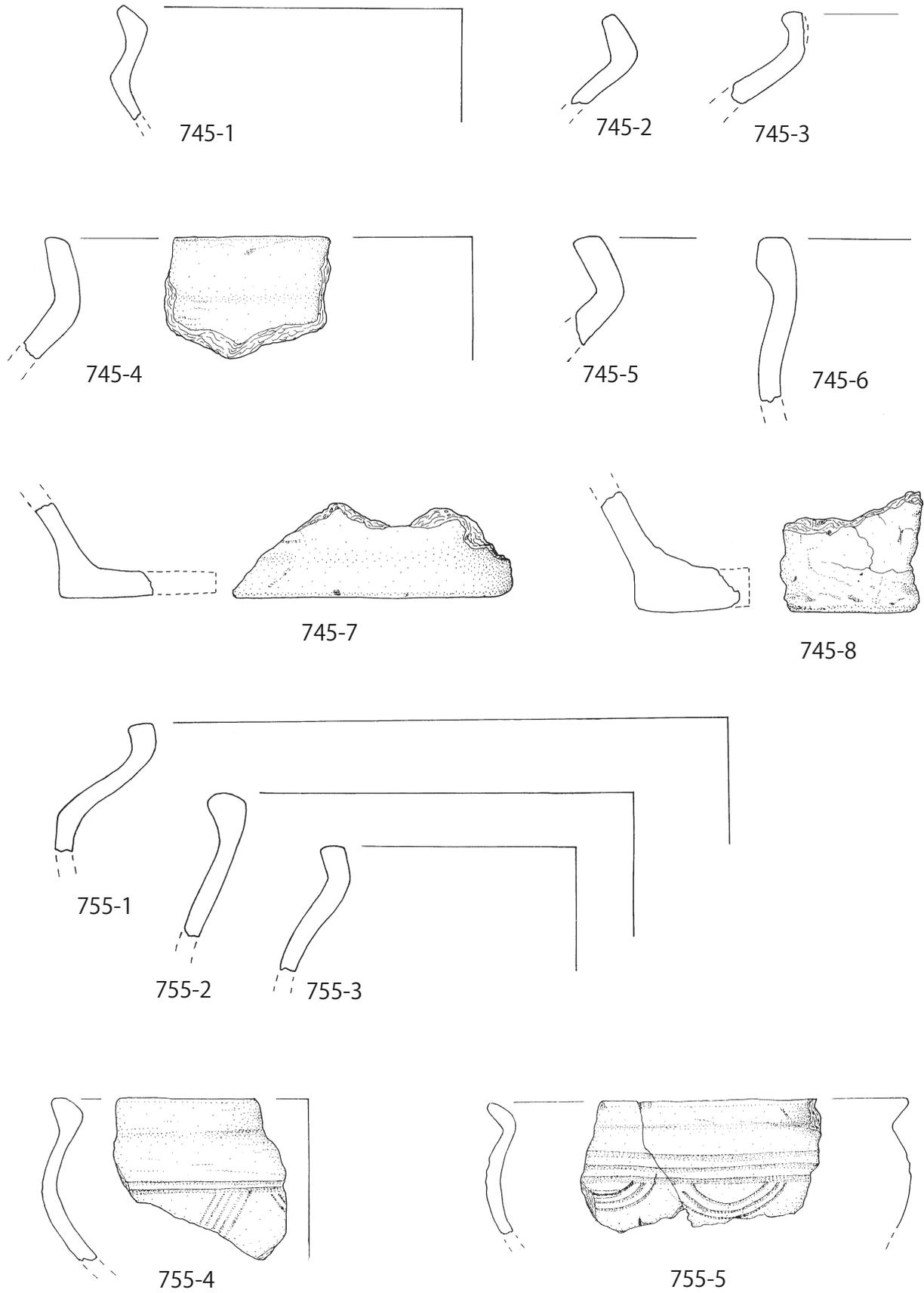
702-5



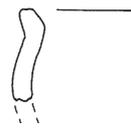
702-6

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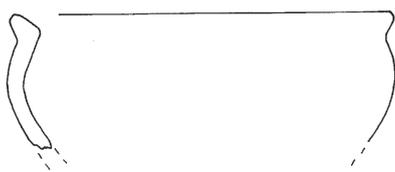




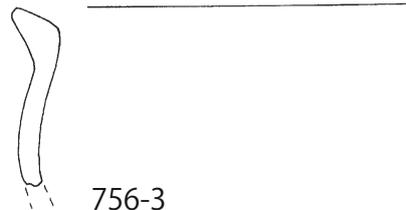
Tafel 44



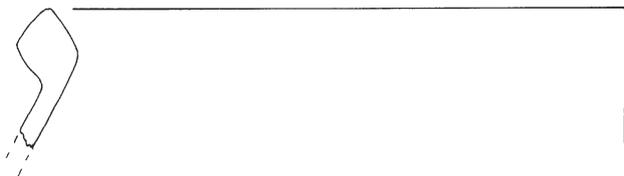
756-1



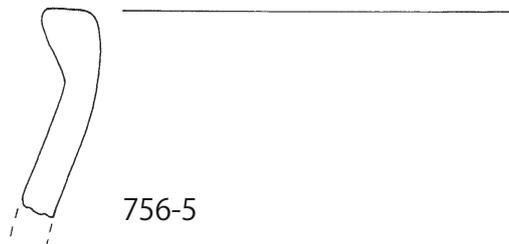
756-2



756-3



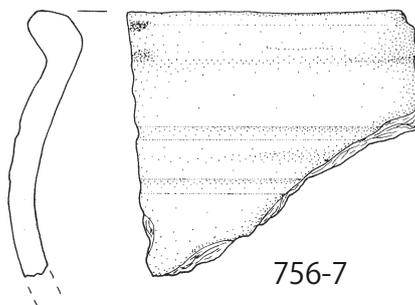
756-4



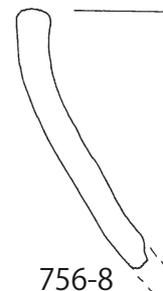
756-5



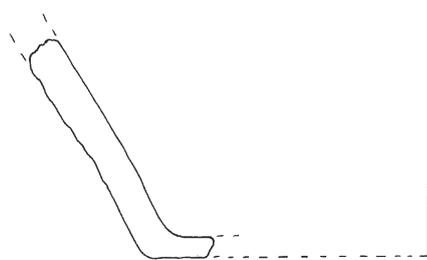
756-6



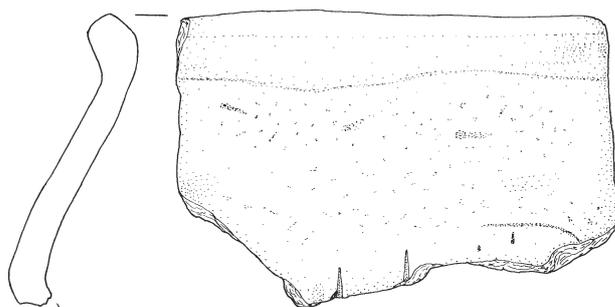
756-7



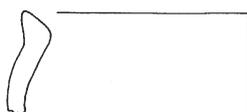
756-8



756-9



757-1



757-2



757-3



757-4



757-5



757-6



757-7



757-8



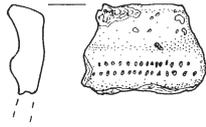
757-9



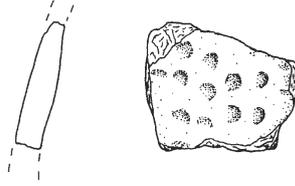
757-10

Nortmoorer Hamrich

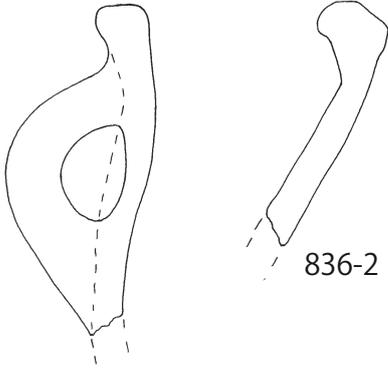
Tafel 45



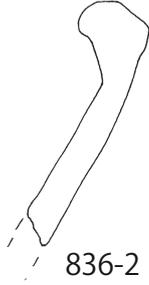
806-1



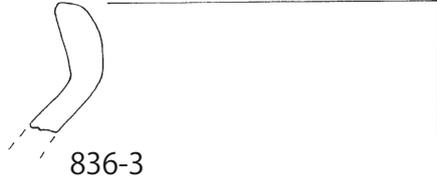
810-1



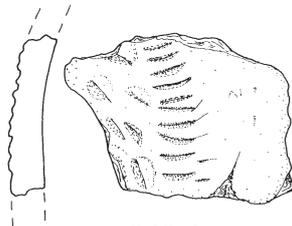
836-1



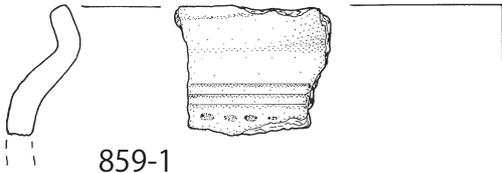
836-2



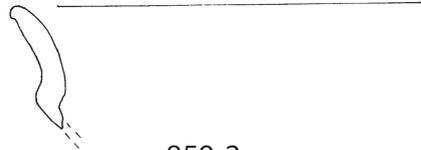
836-3



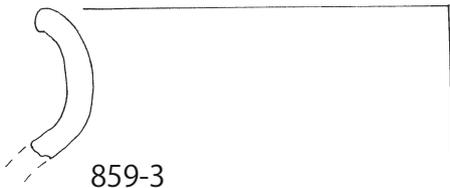
840-1



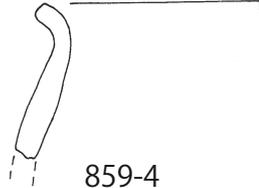
859-1



859-2



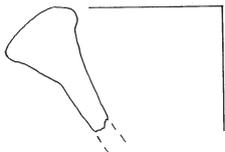
859-3



859-4



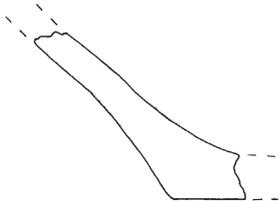
859-5



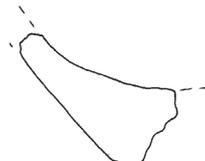
859-6



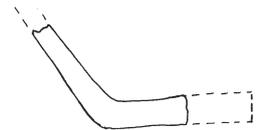
859-7



859-8



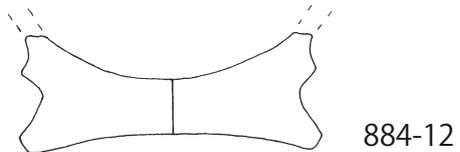
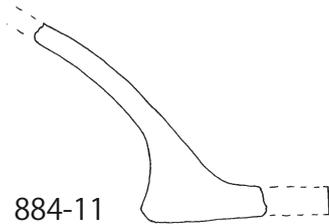
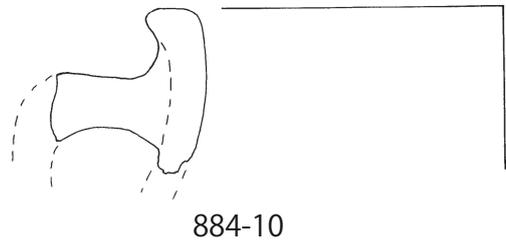
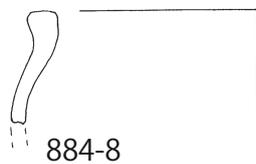
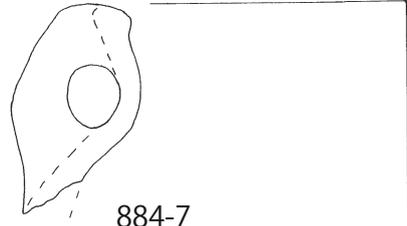
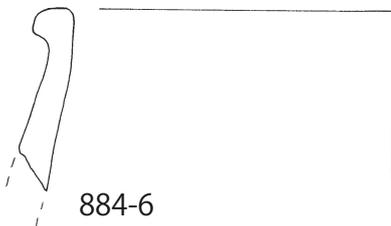
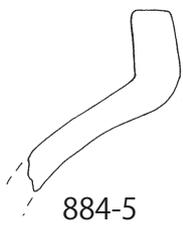
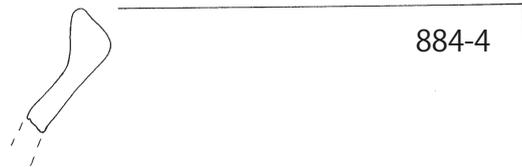
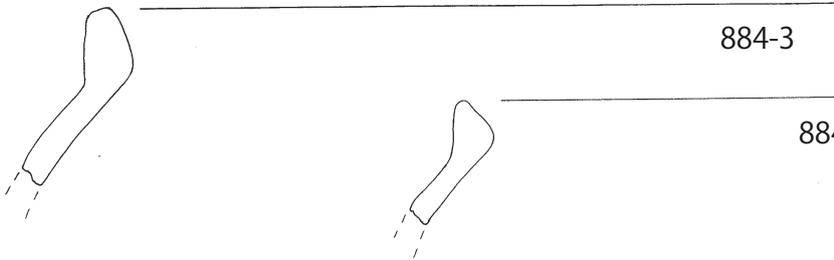
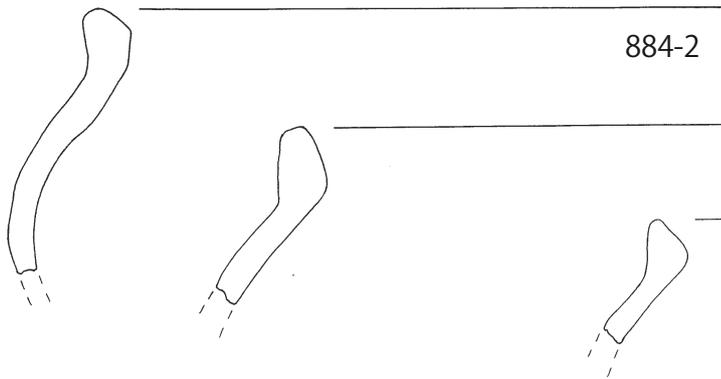
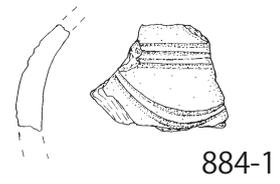
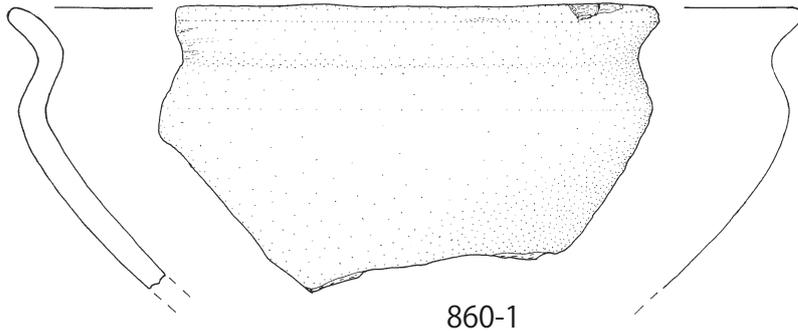
859-9



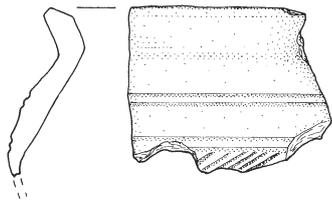
859-10

Nortmoorer Hamrich

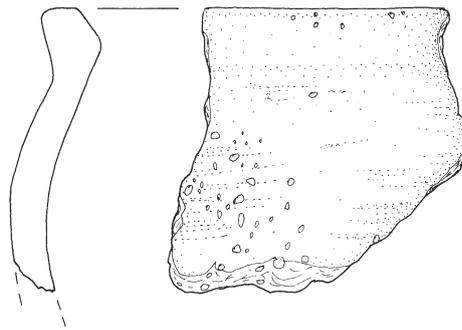
Tafel 46



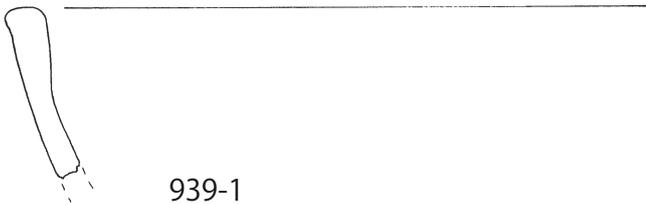
Nortmoorer Hammrich



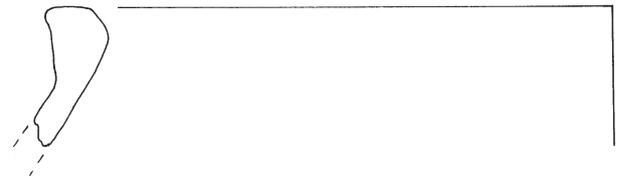
928-1



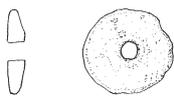
928-2



939-1

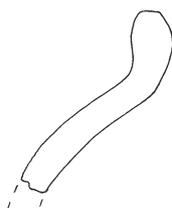


939-2

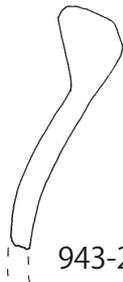


939-3

Bleischeibe



943-1



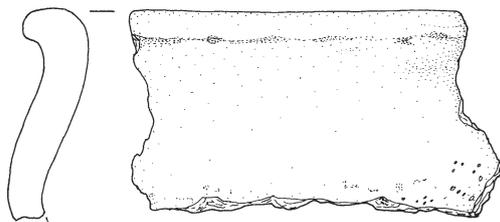
943-2



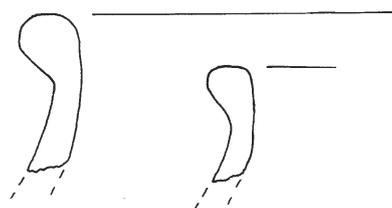
943-3



943-4

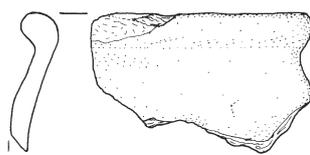


1018-1

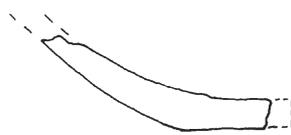


1018-2

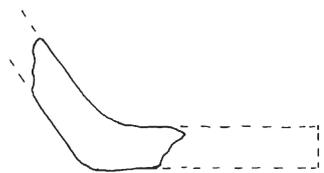
1018-3



1018-4



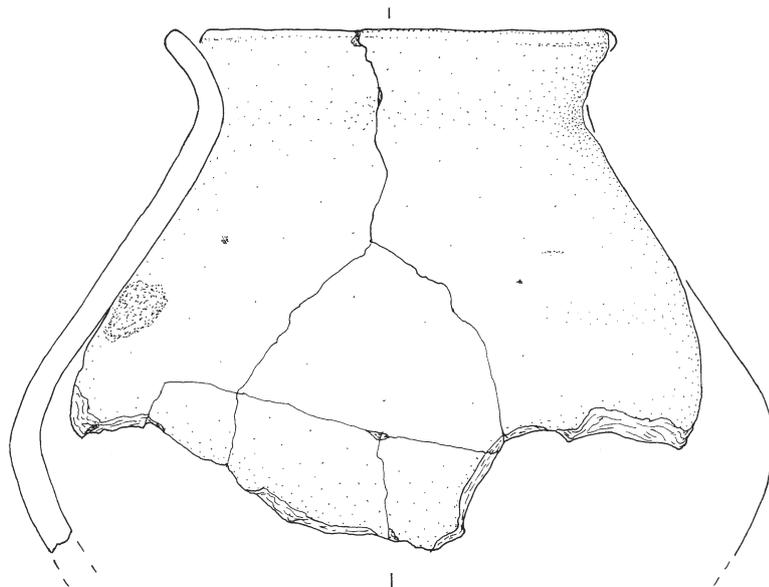
1018-5



1018-6

Nortmoorer Hamrich

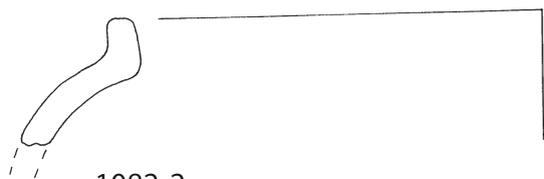
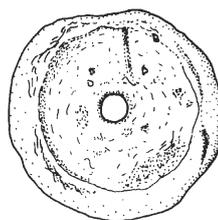
Tafel 48



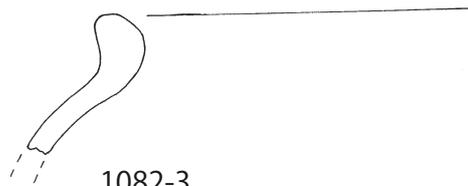
1070-2



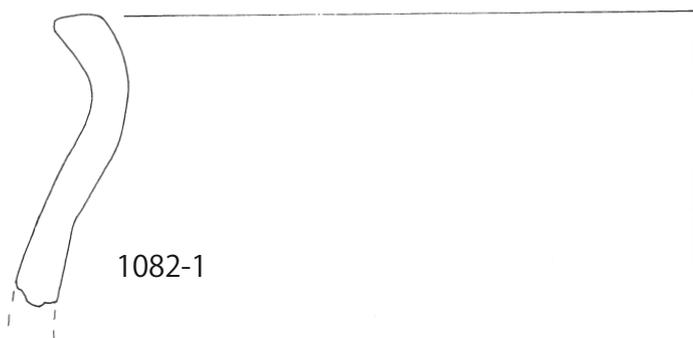
1082-1



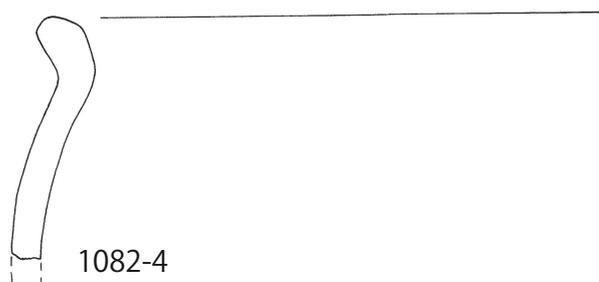
1082-2



1082-3



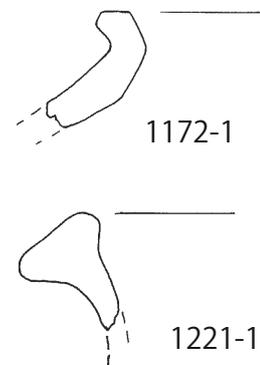
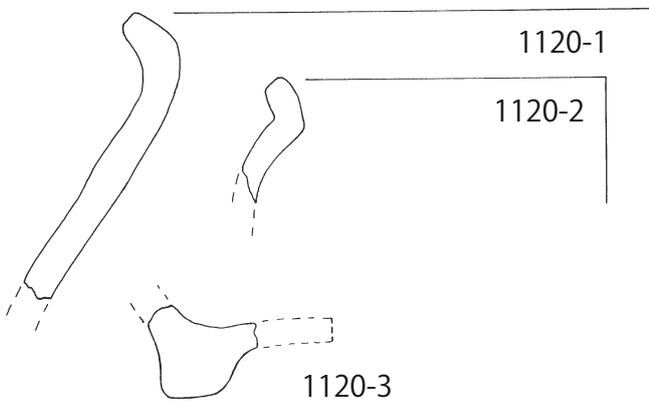
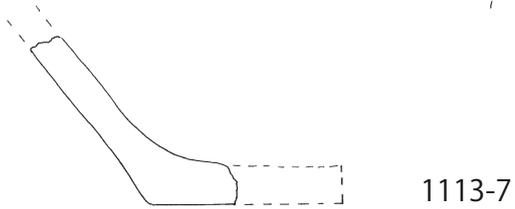
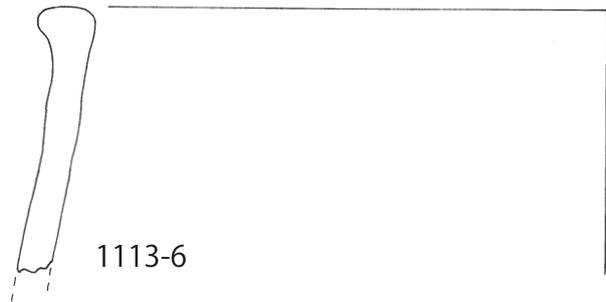
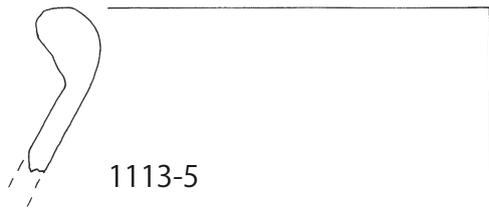
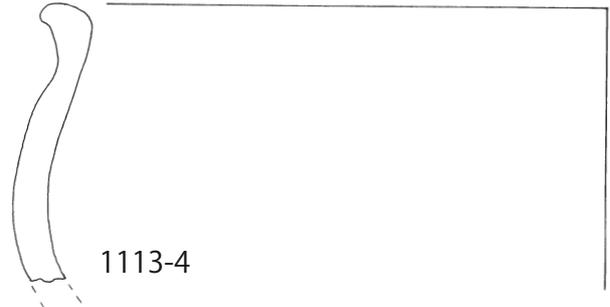
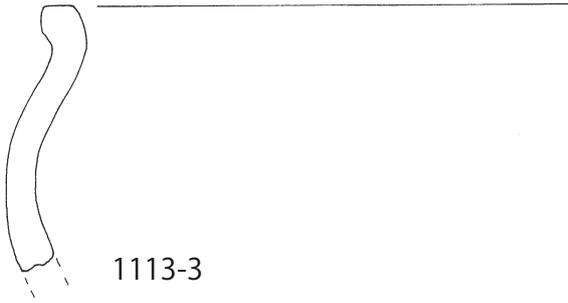
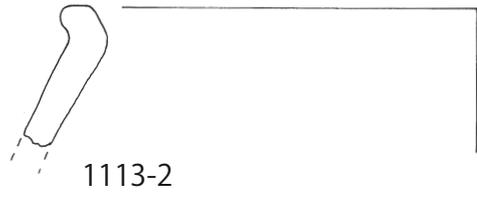
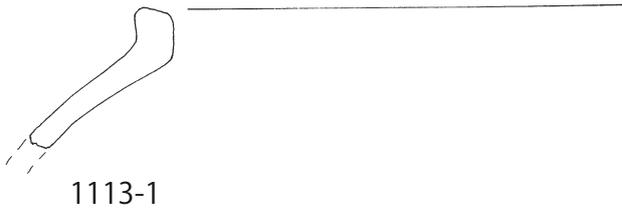
1082-1



1082-4

Nortmoorer Hammrich

Tafel 49



Nortmoorer Hammrich

Tafel 50



Kat.Nr. 520 Fdnr 737 Terra Sigilata-Derivat
(M 1:1,5)



Kat.Nr. 369b Fdnr 573, Import
Au en- u. Innenseite



Bef. 627, Terra Nigra, Au enseite



Kat.Nr. 257 Fdnr 369, Terra Nigra.
Au enseite u. Bruch



Kat.Nr. 840 Fdnr. 640, Au enseite



Kat.Nr. 840 Fdnr. 640, Innenseite

Nortmoorer Hammrich
r mische Importkeramik (M 1:1)

Tafel 51



Kat.Nr. 432 Fdnr. 516 (Innenseite)



Kat.Nr. 195 Fdnr. (Au enseite)



Kat.Nr. 678 Fdnr. 798 (Au enseite)



Kat.Nr. 627 Fdnr. 527 (Au enseite)



Kat.Nr. 140-4 (Profil und Au enseite)



Kat.Nr. 3-62 (Au enseite)

Nortmoorer Hammrich (M 1:1)
Oberflächenbehandlungen der Keramik

Tafel 52



Kat.Nr. 756 Fdnr. 486



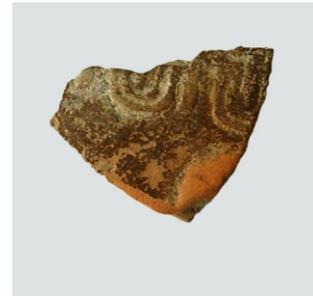
Kat.Nr. 3 Fdnr. 224



Kat.Nr. 859 Fdnr. 1070



Kat.Nr. 78a Fdnr. 83



Kat.Nr. 551 Fdnr. 483



Kat.Nr. 265 Fdnr. 582



Kat.Nr. 722 Fdnr. 760



Kat.Nr. 559 Fdnr. 674



Kat.Nr. 3 Fdnr. 565

Nortmoorer Hammrich (M 1:1)
verzierte Wandungsscherben



Kat.Nr. 882 Fdnr. 1086



Kat.Nr. 884 Fdnr. 1055



Kat.Nr. 944 Fdnr. 1026



Kat.Nr. 627 Fdnr. 525



Kat.Nr.. 859 Fdnr. 1070



Kat.Nr. Qu 57/54 Fdnr. 568

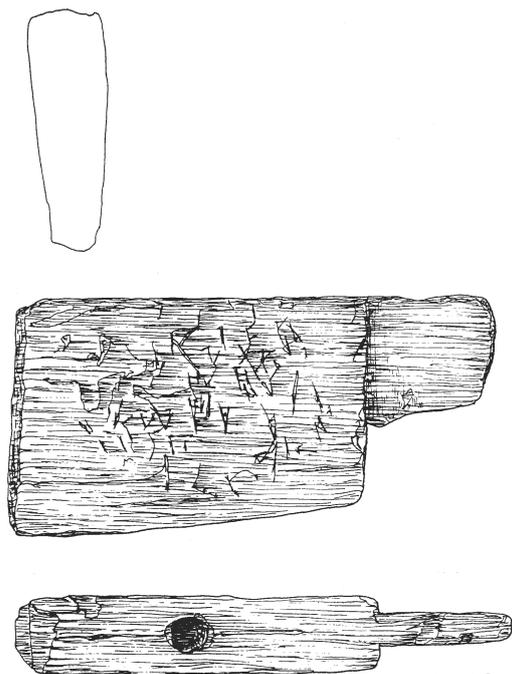


Kat.Nr. Qu 55/51 Fdnr. 526

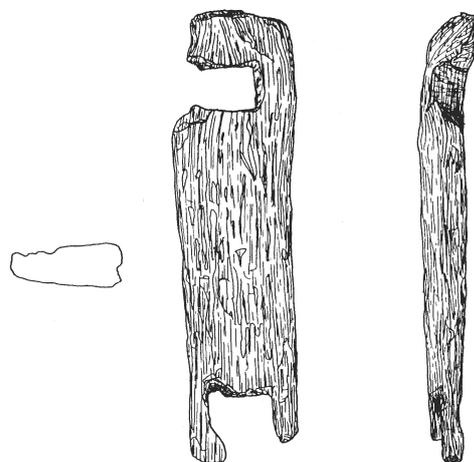


Kat.Nr. Qu 56/54 Fdnr. 556

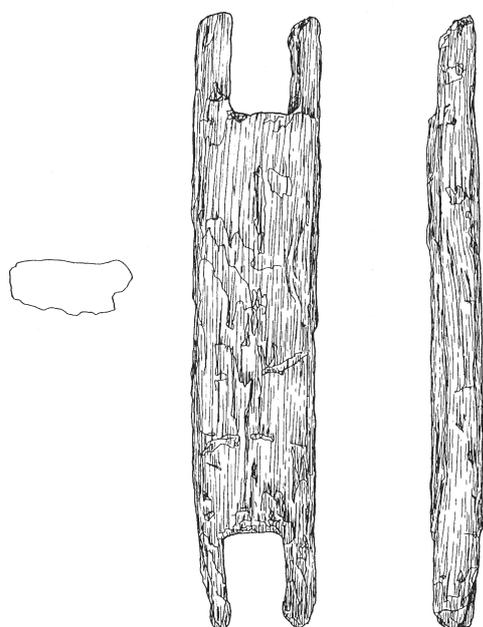
Nortmoorer Hammrich (M 1:1)
verzierte Wandungsscherben



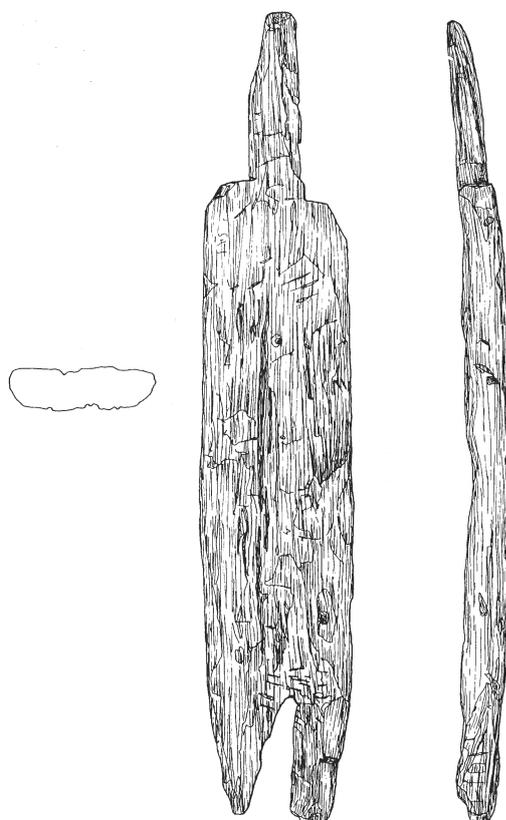
140 h
M 1:6



195 d-7

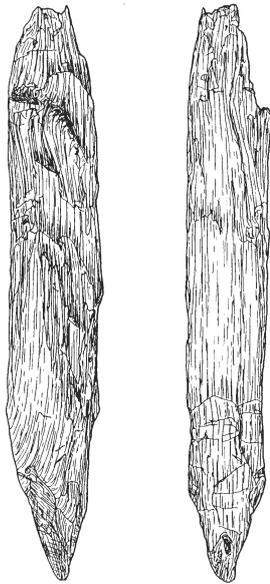


195 d-1

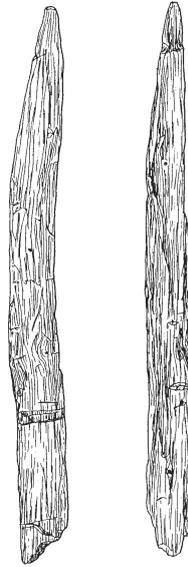


195 d-4

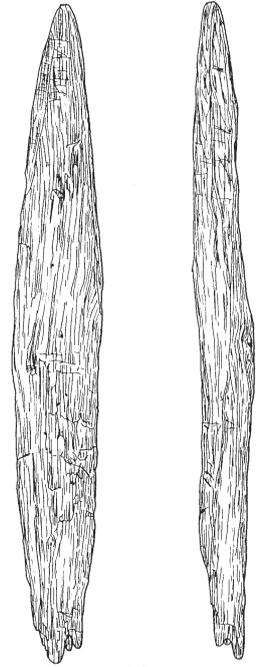
Tafel 55



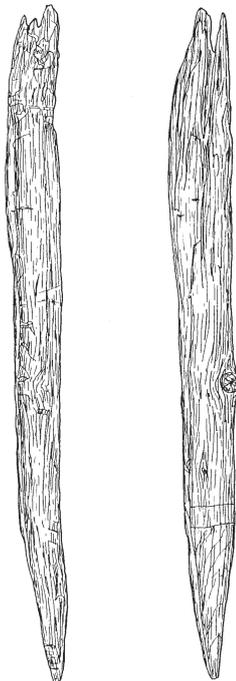
195 d-2



195 d-3



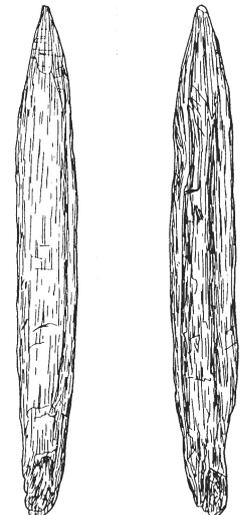
195 d-5



195 d-6



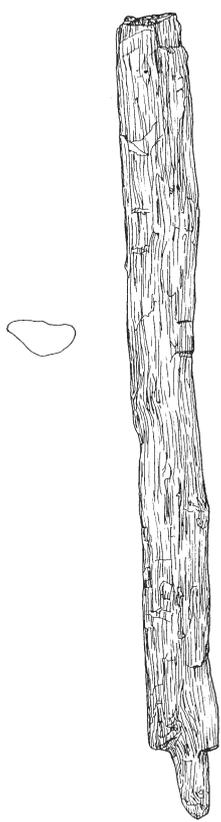
195 d-8 (M 1:9)



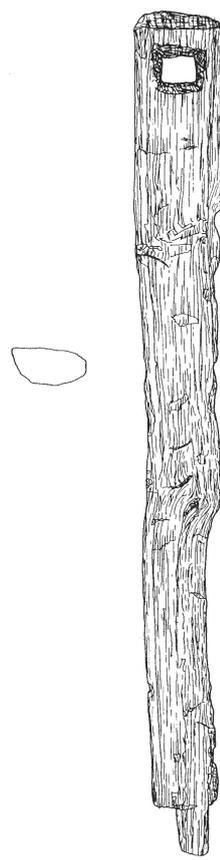
195 d-9

Nortmoorer Hammrich
Holzfunde (M 1:16)

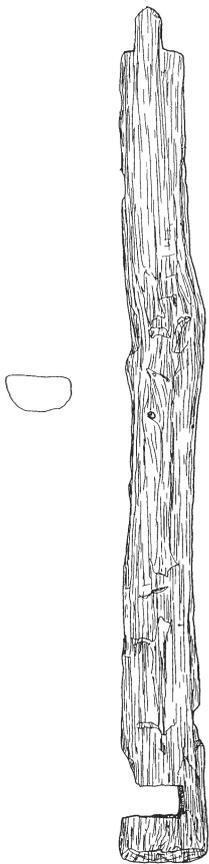
Tafel 56



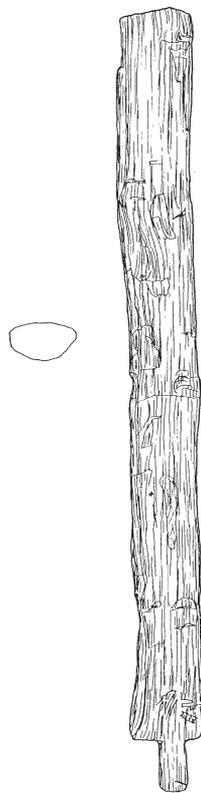
740 d-1



740 d-2



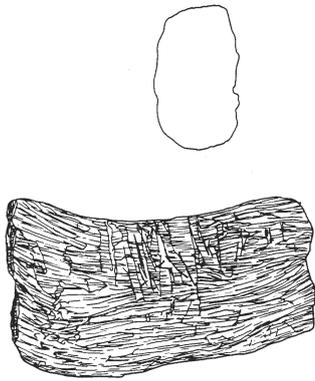
740 d-3



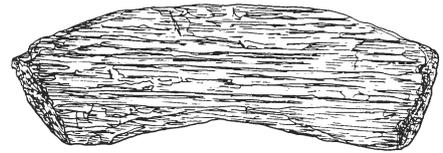
740 d-4



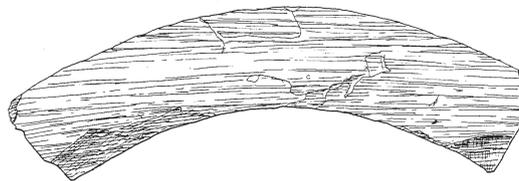
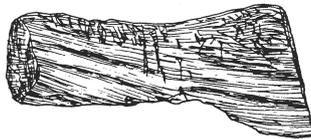
Nortmoorer Hammrich
Holzfunde (M 1:16)



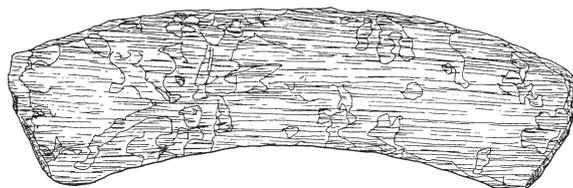
26 f



1111

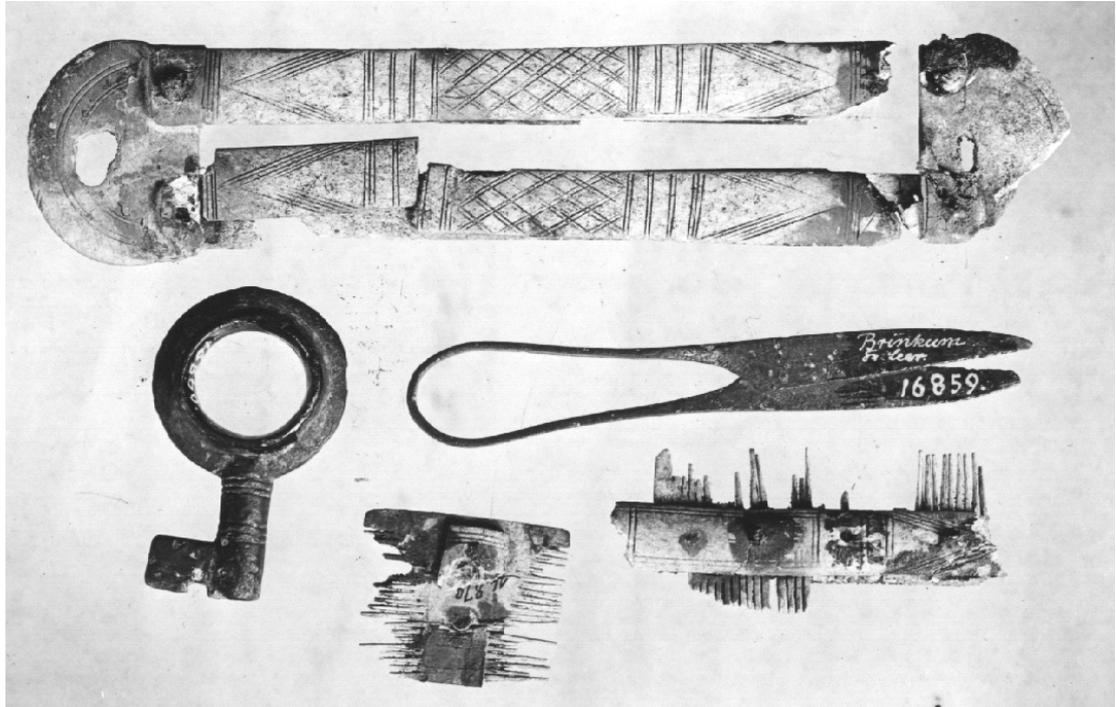
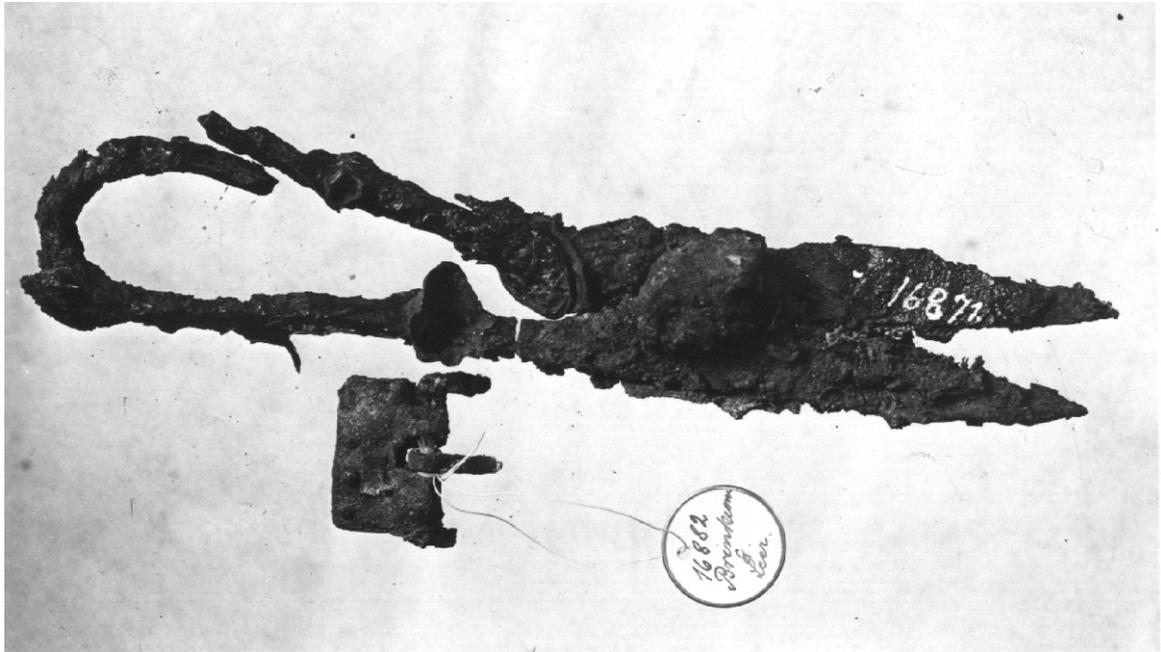


455



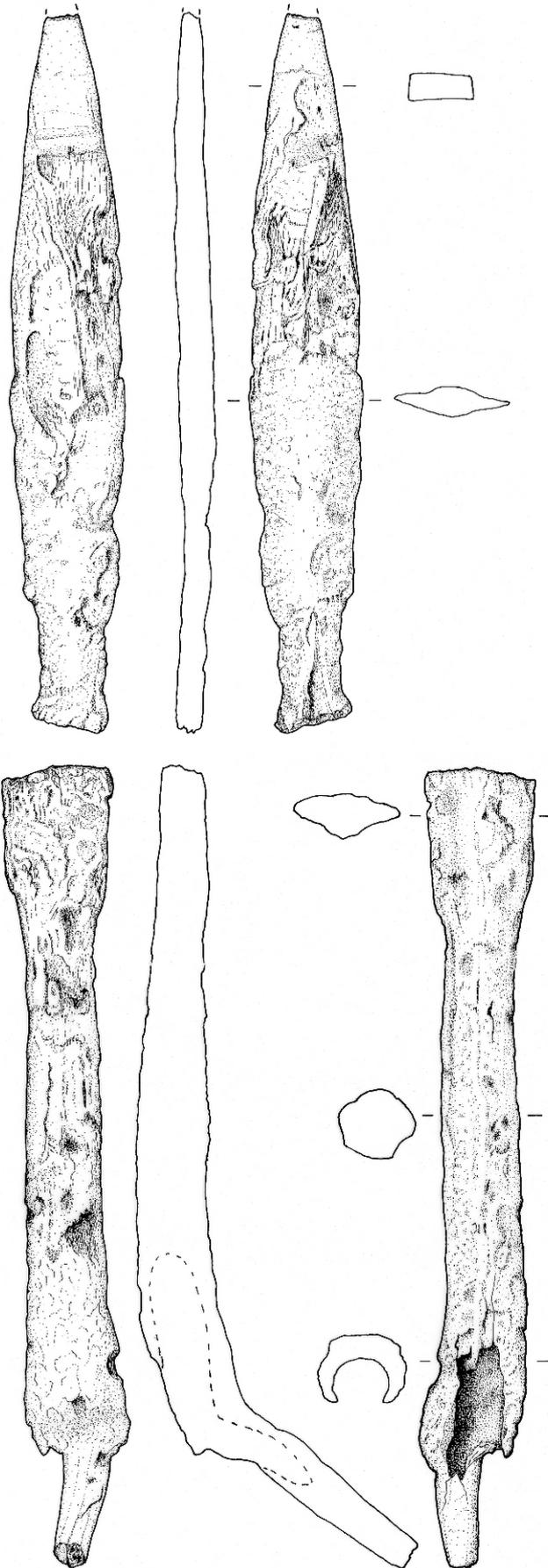
1110

Nortmoorer Hamrich
Holzfunde (M 1:16)



Brinkum, Landkreis Leer.
Zustand der Funde 1907 (S-W Fotoaufnahmen Hannover)

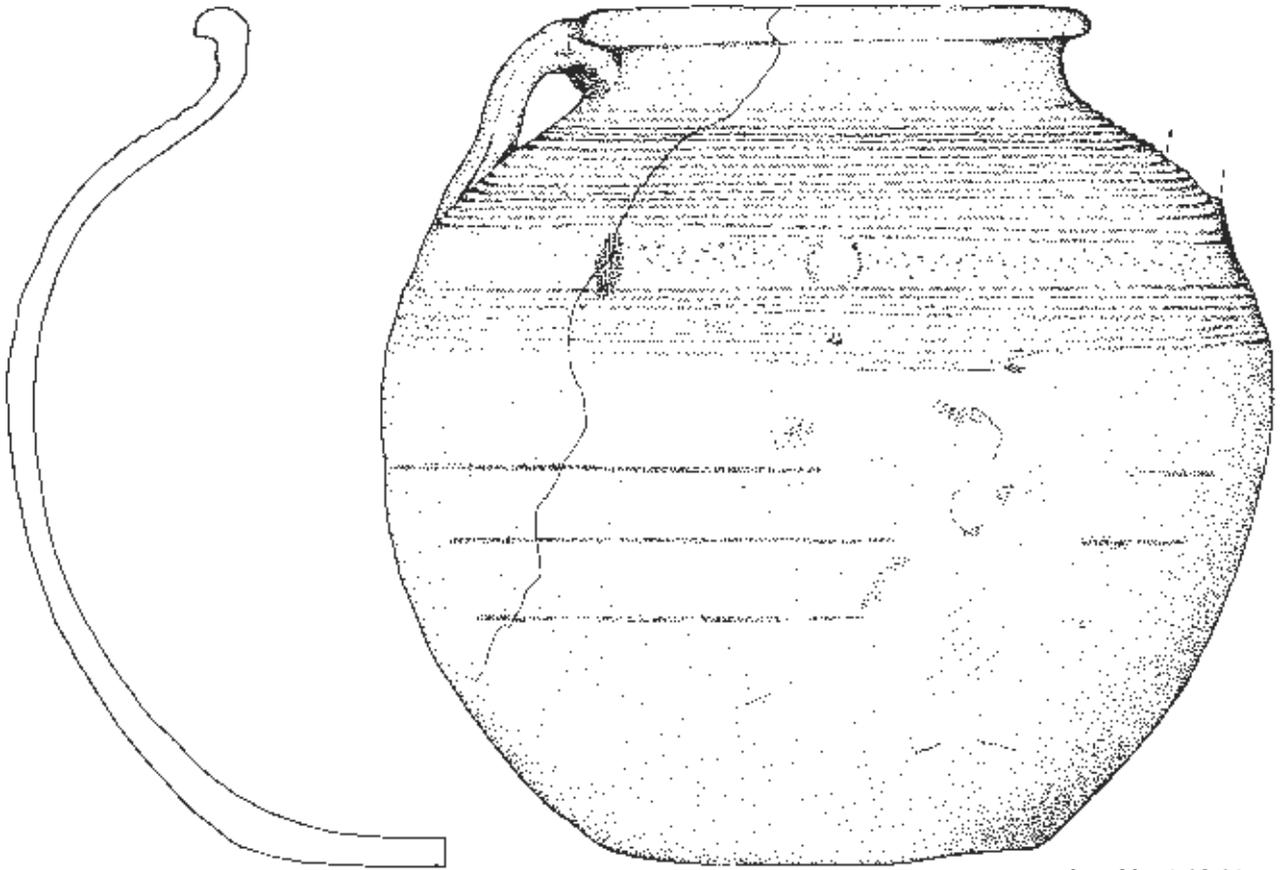
Tafel 59



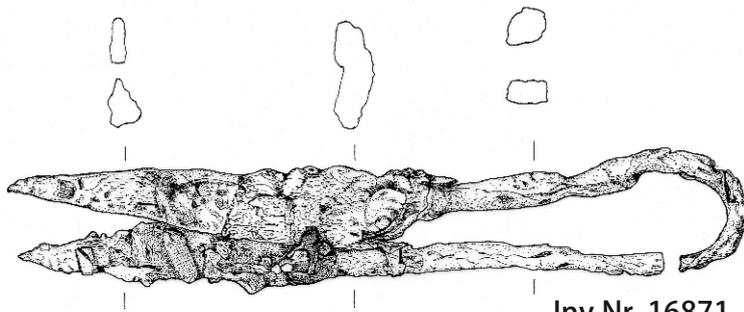
Inv.Nr. 16880

Brinkum, Landkreis Leer
M 1:2

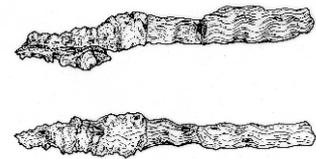
Tafel 60



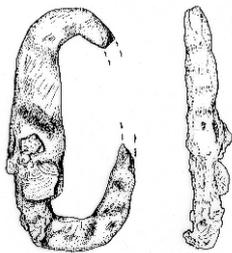
Inv.Nr. 16861
(M 1:3)



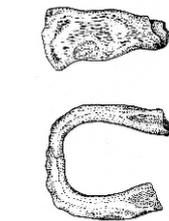
Inv.Nr. 16871



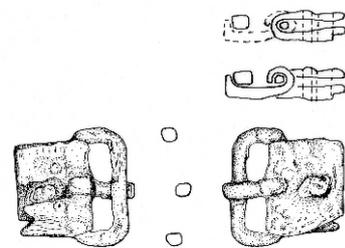
Inv.Nr. 16872 (a)



Inv.Nr. 16874 (a)



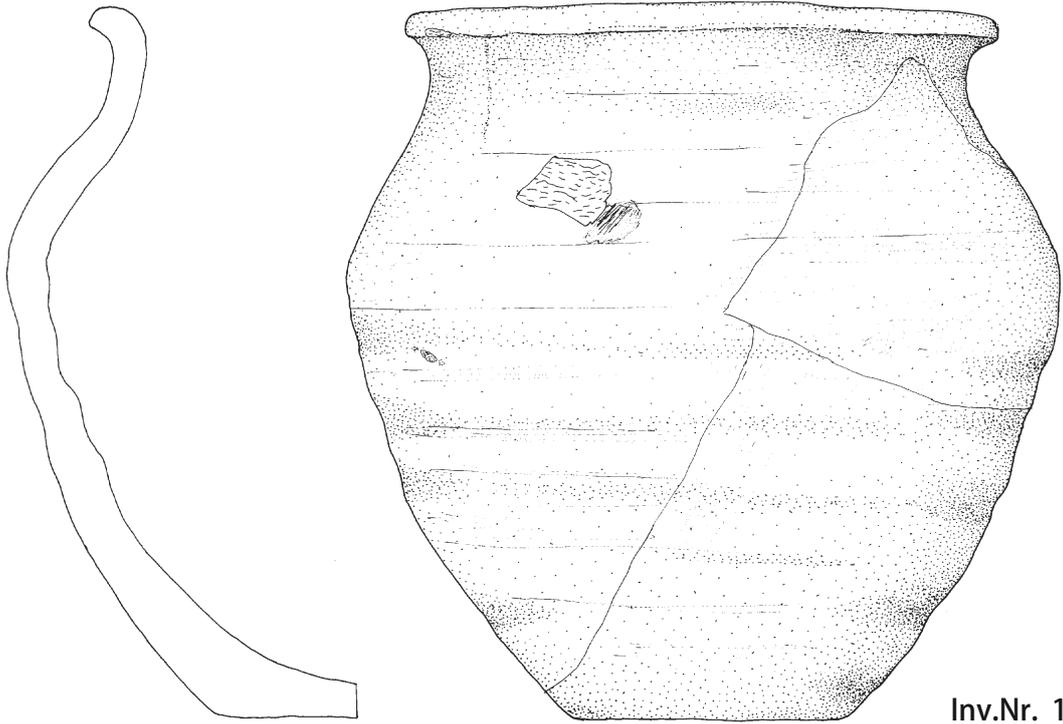
Inv.Nr. 16874 (b)



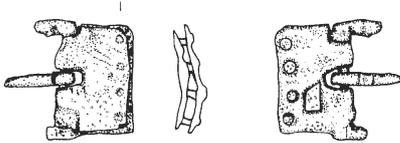
Inv.Nr. 16872(b)

Brinkum, Landkreis Leer
M 1:2

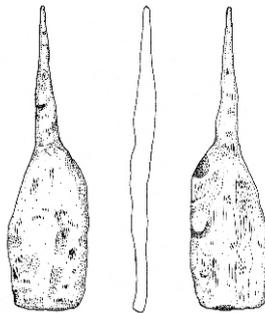
Tafel 61



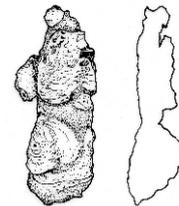
Inv.Nr. 16881



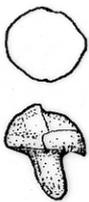
Inv.Nr. 16882



Inv.Nr. 16883 (a)



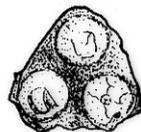
Inv.Nr. 16883 (b)



16886 (b-1)
(M 1:1)



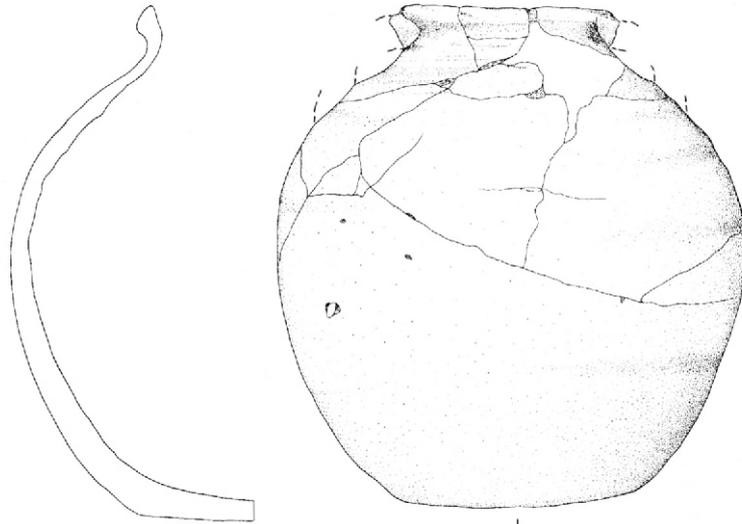
16886 (b-2)
(M 1:1)



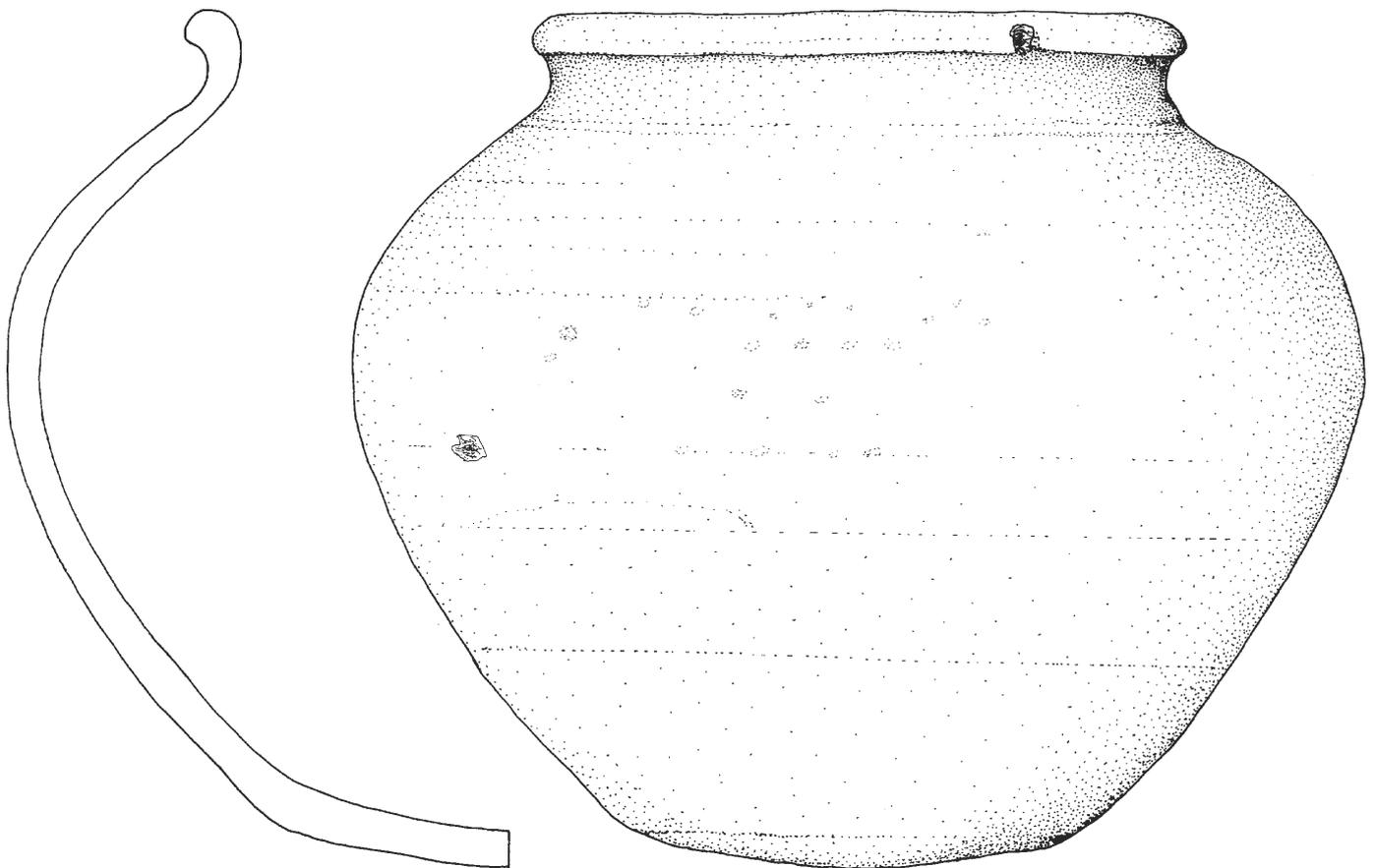
16886 (b-3)
(M 1:1)

Brinkum, Landkreis Leer
M 1:2

Tafel 62



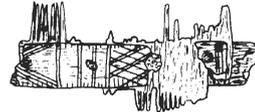
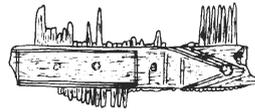
Inv.Nr. 16866



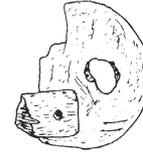
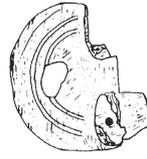
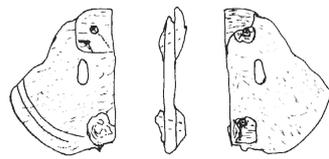
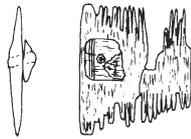
Inv.Nr. 16877

Brinkum, Landkreis Leer
M 1:3

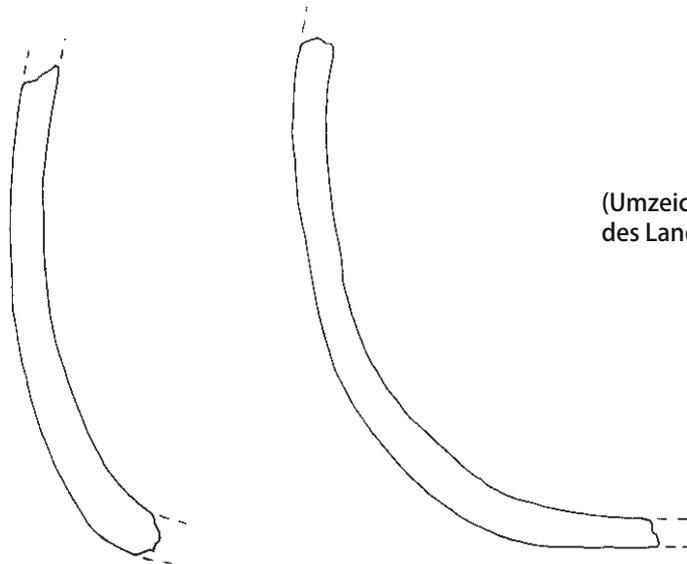
Tafel 63



Inv.Nr. 16870



Kammfutteral
Inv.Nr. 16870



Inv.Nr. 16867

(Umzeichnung aus dem Fundbuch
des Landesmuseums Hannover 1906)

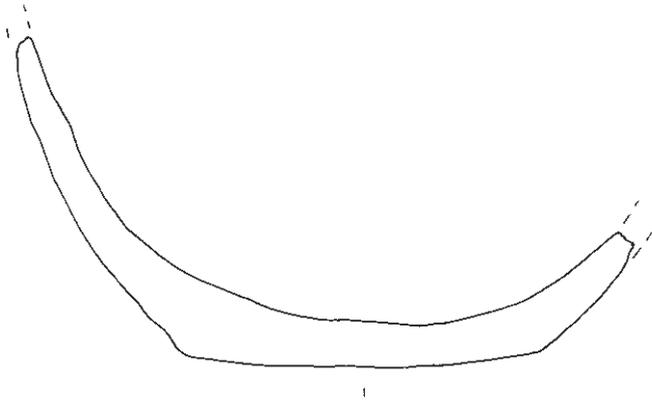
Inv.Nr. 16875(a)

Inv.Nr. 16875 (b)

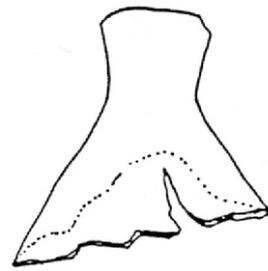
Inv.Nr. 16875 (c)

Brinkum, Landkreis Leer
M 1:2

Tafel 64

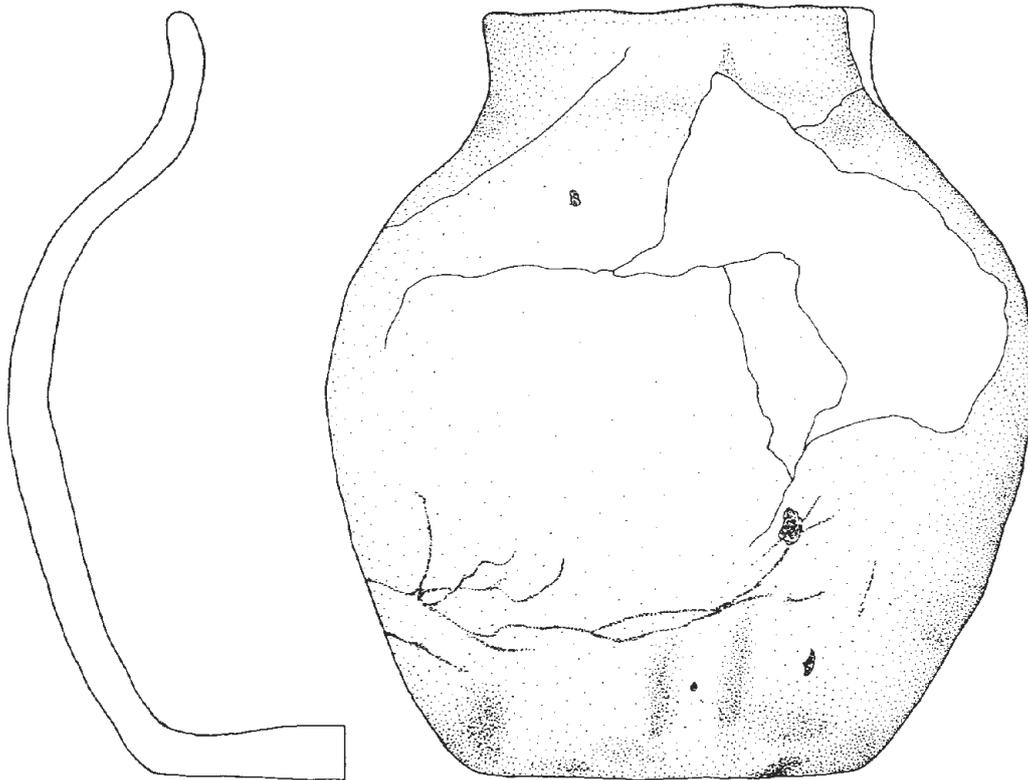


Inv.Nr. 16876



Inv.Nr. 16869

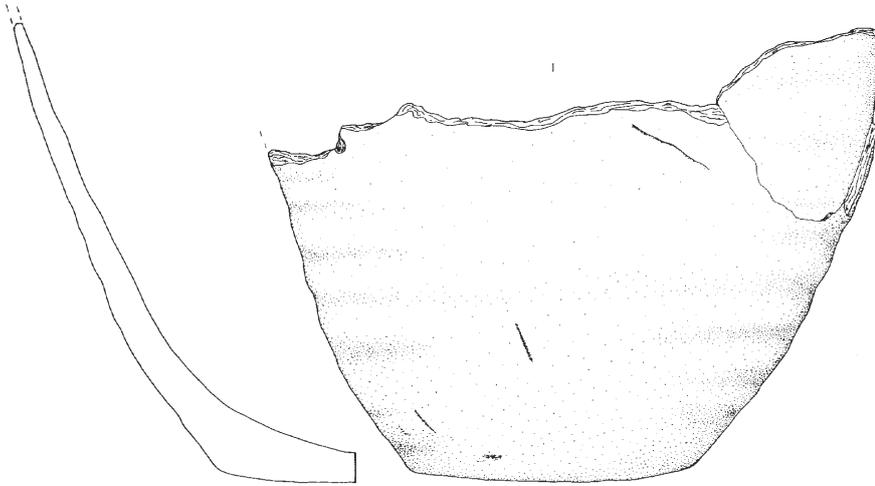
(Umzeichnung nach einem Foto aus Uenze 1938)



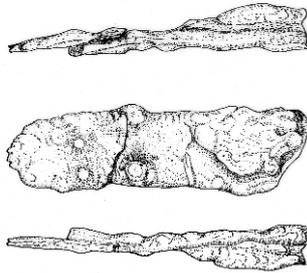
Inv.Nr. 16868

Brinkum, Landkreis Leer
M 1:2

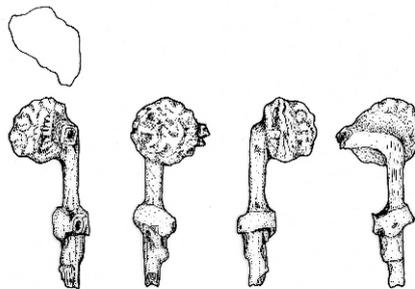
Tafel 65



Inv.Nr. 16864
M 1:3.



Inv.Nr. 16865 (a)



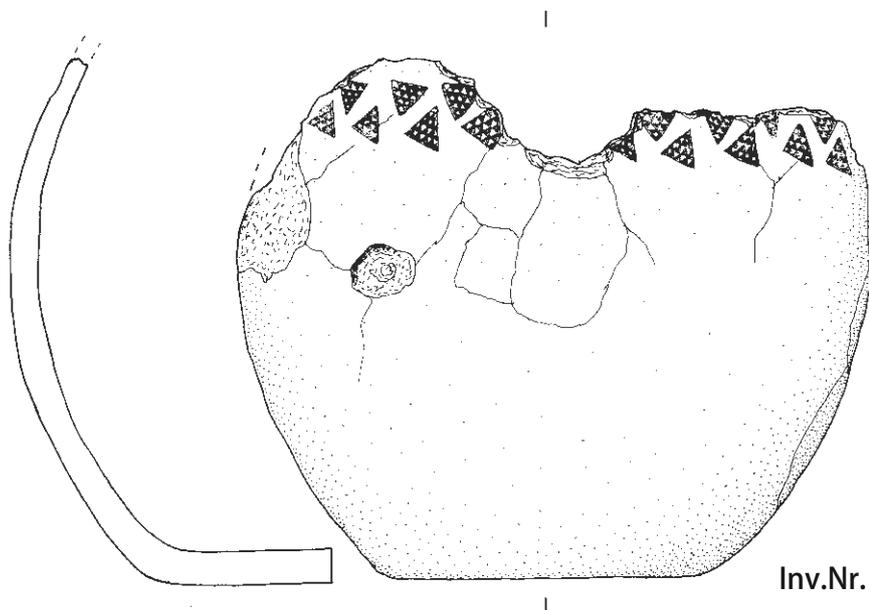
Inv.Nr. 16865 (b)

Brinkum, Landkreis Leer
M 1:2

Tafel 66



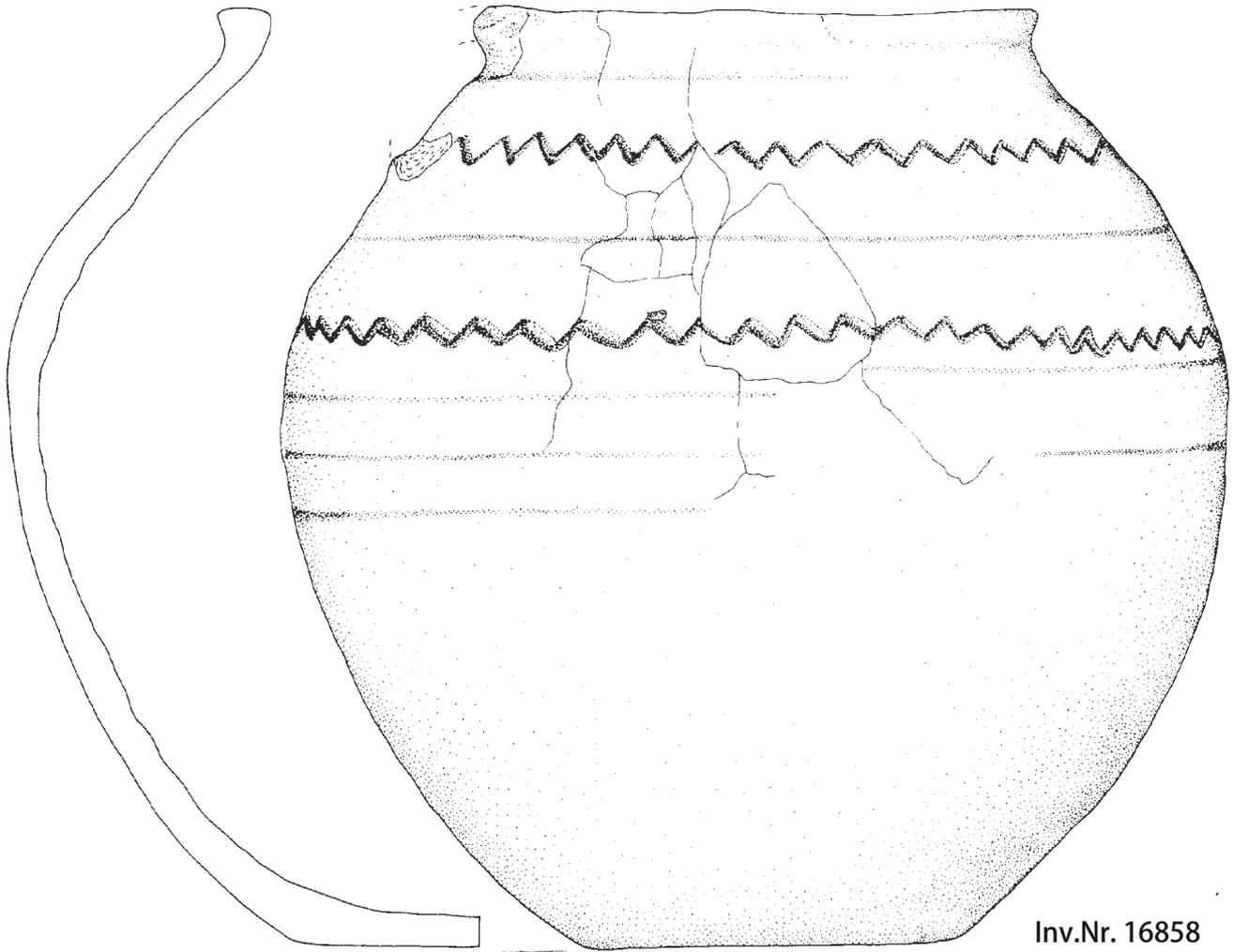
Inv.Nr. H 16862



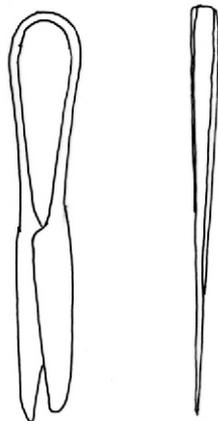
Inv.Nr. 16863

Brinkum, Landkreis Leer
M 1:2

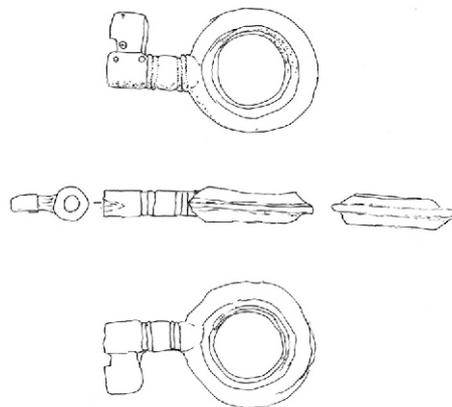
Tafel 67



Inv.Nr. 16858



Inv.Nr. 16859



Inv.Nr. 16860

Brinkum, Landkreis Leer
M 1:2

Tafel 68



Inv.Nr. 16858



Inv.Nr. 18661



Inv.Nr. 16866



Inv.Nr. 16877

Tafel 69



Inv.Nr. 16881



Inv.Nr. 16876



Inv.Nr. 16876 (Drehschnecke)



Inv.Nr. 16864

Tafel 70



Inv.Nr. 16863



Inv.Nr.16862



Inv.Nr. 16868

Brinkum, Landkreis Leer

Tafel 71



Inv.Nr. 16870 Schauseite Knochenkamm



Inv.Nr. 16870 Rückseite Knochenkamm



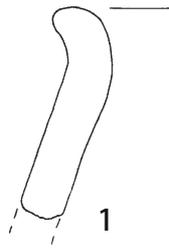
Inv.Nr. 16882 (Vorderseite)



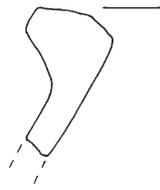
Inv.Nr. 16882 (Rückseite)

Brinkum, Landkreis Leer

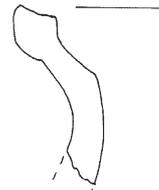
Tafel 72



1



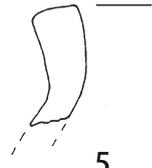
2



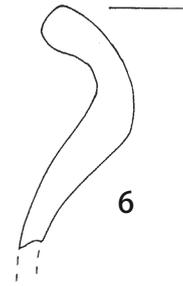
3



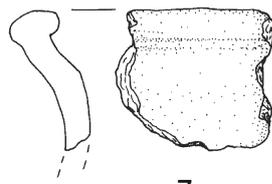
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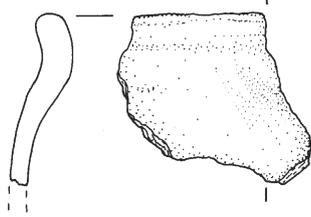
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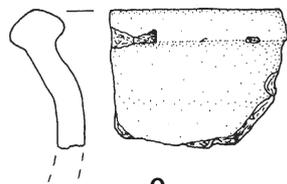
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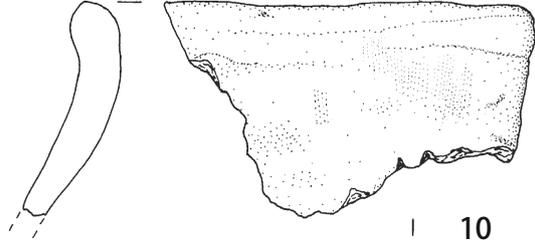
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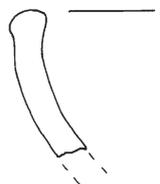
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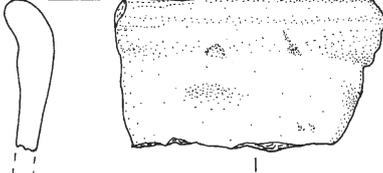
9



10



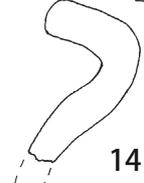
11



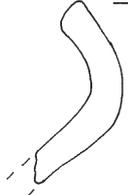
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13



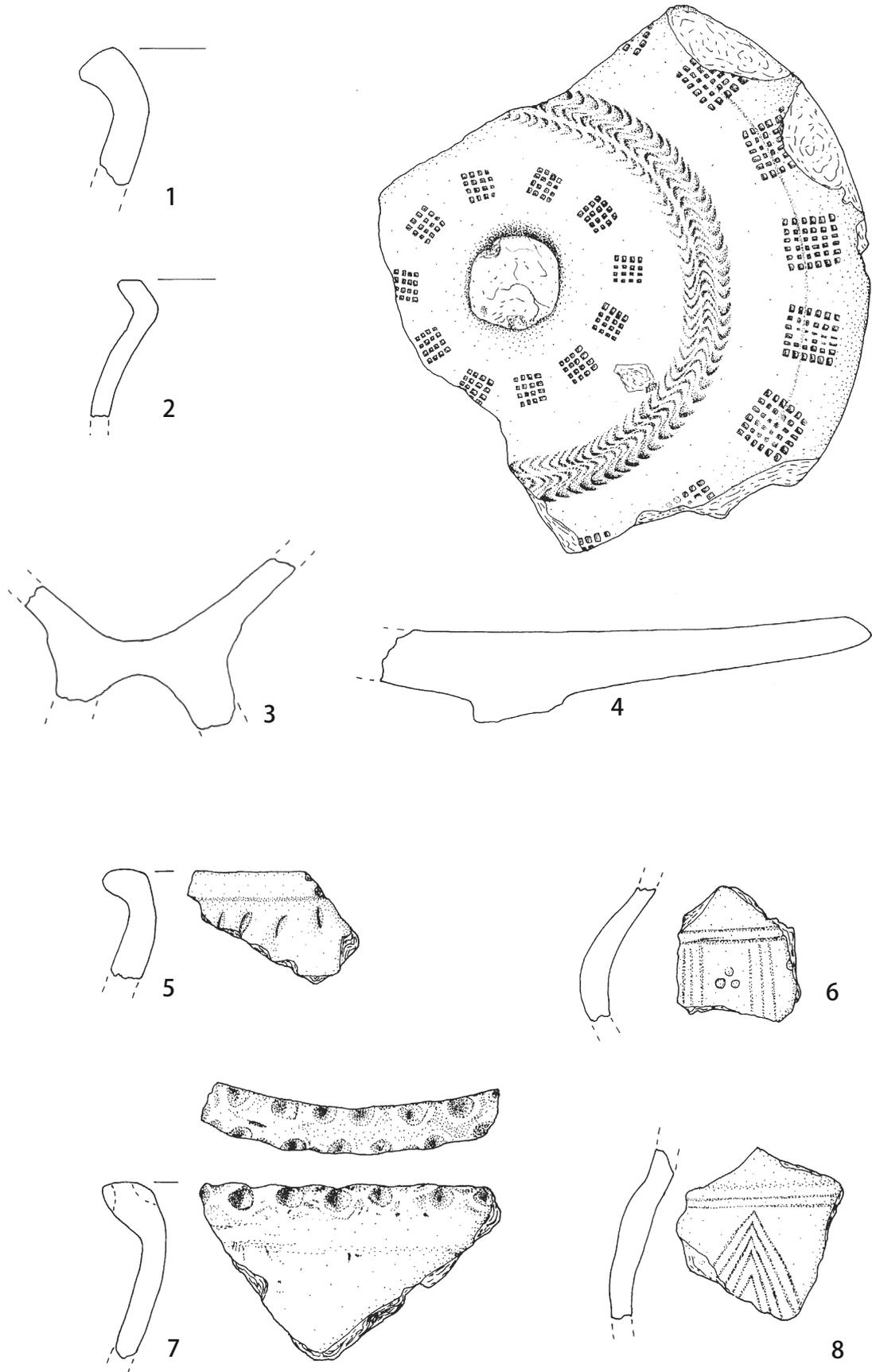
14



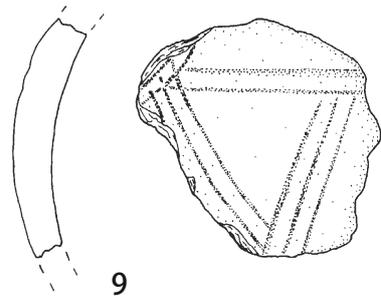
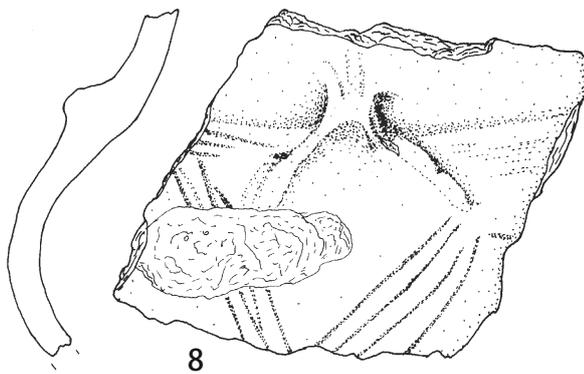
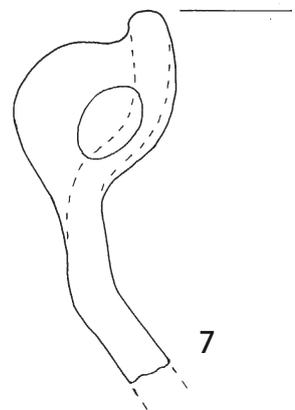
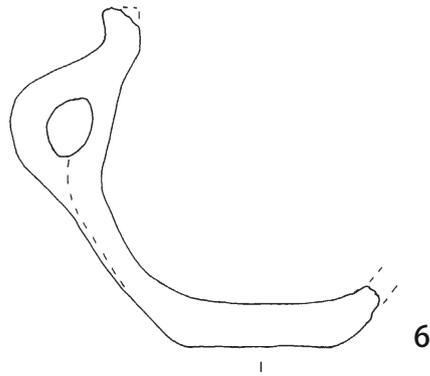
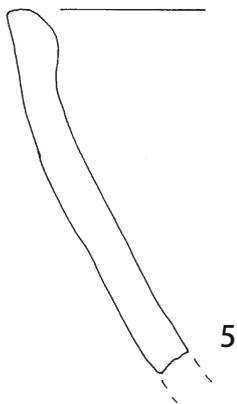
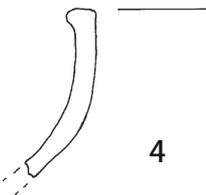
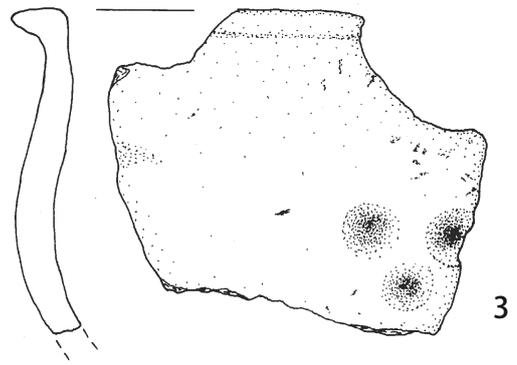
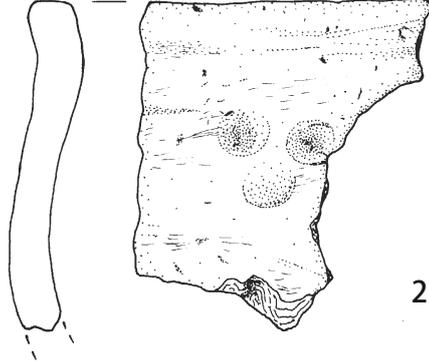
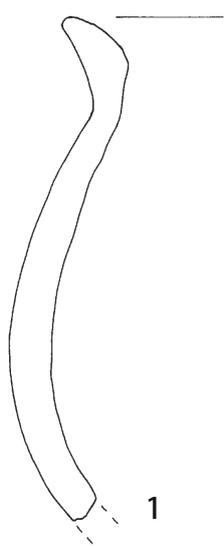
15

1-15: Bingum (FStNr. 2710/8:004)
M 1:2

Tafel 73

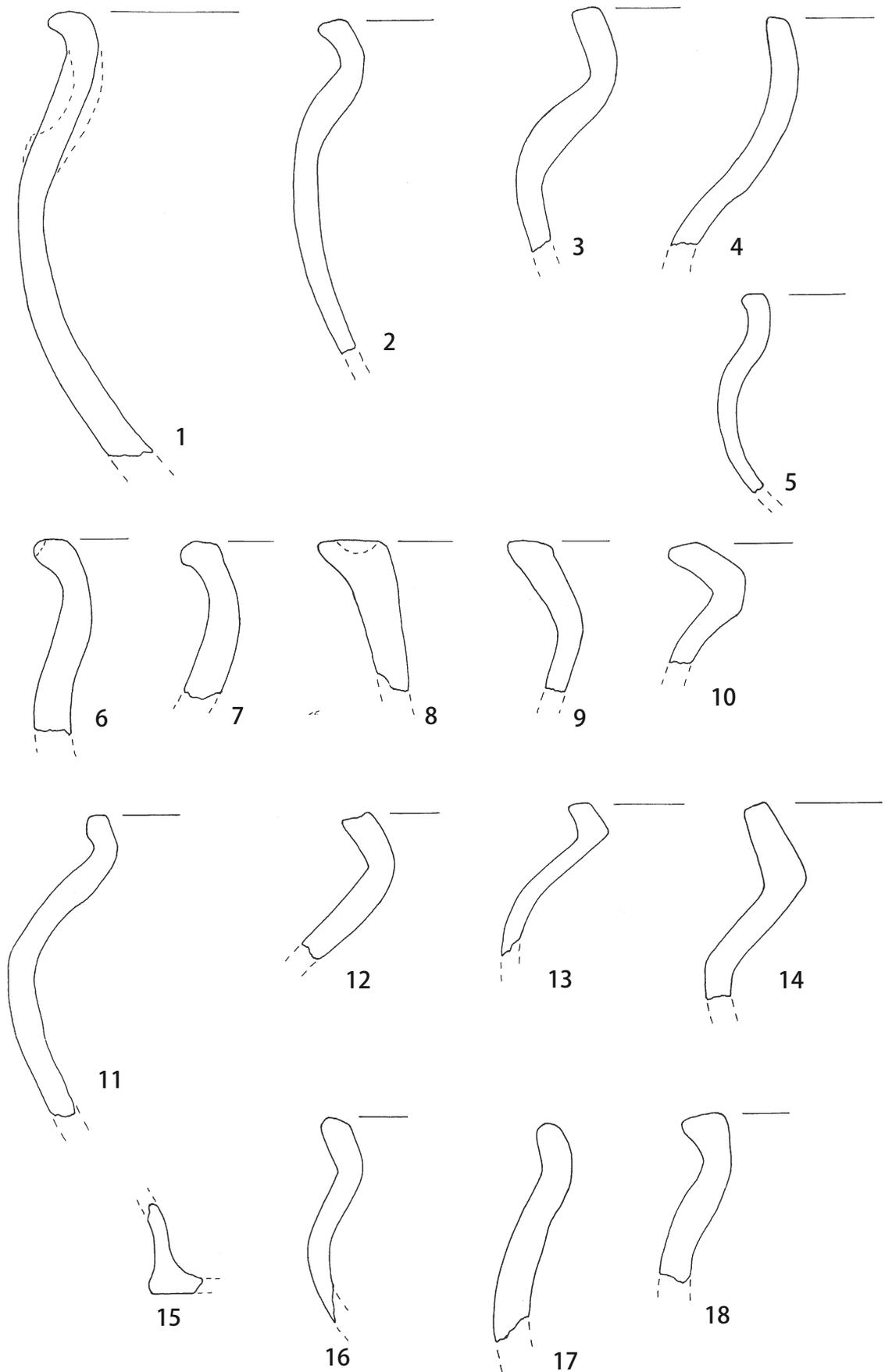


1-4: Critzum (FStNr. 2710/1:007); 5-8: Jemgum-Boomborg (FStNr. 2710/1:002)
M 1:2



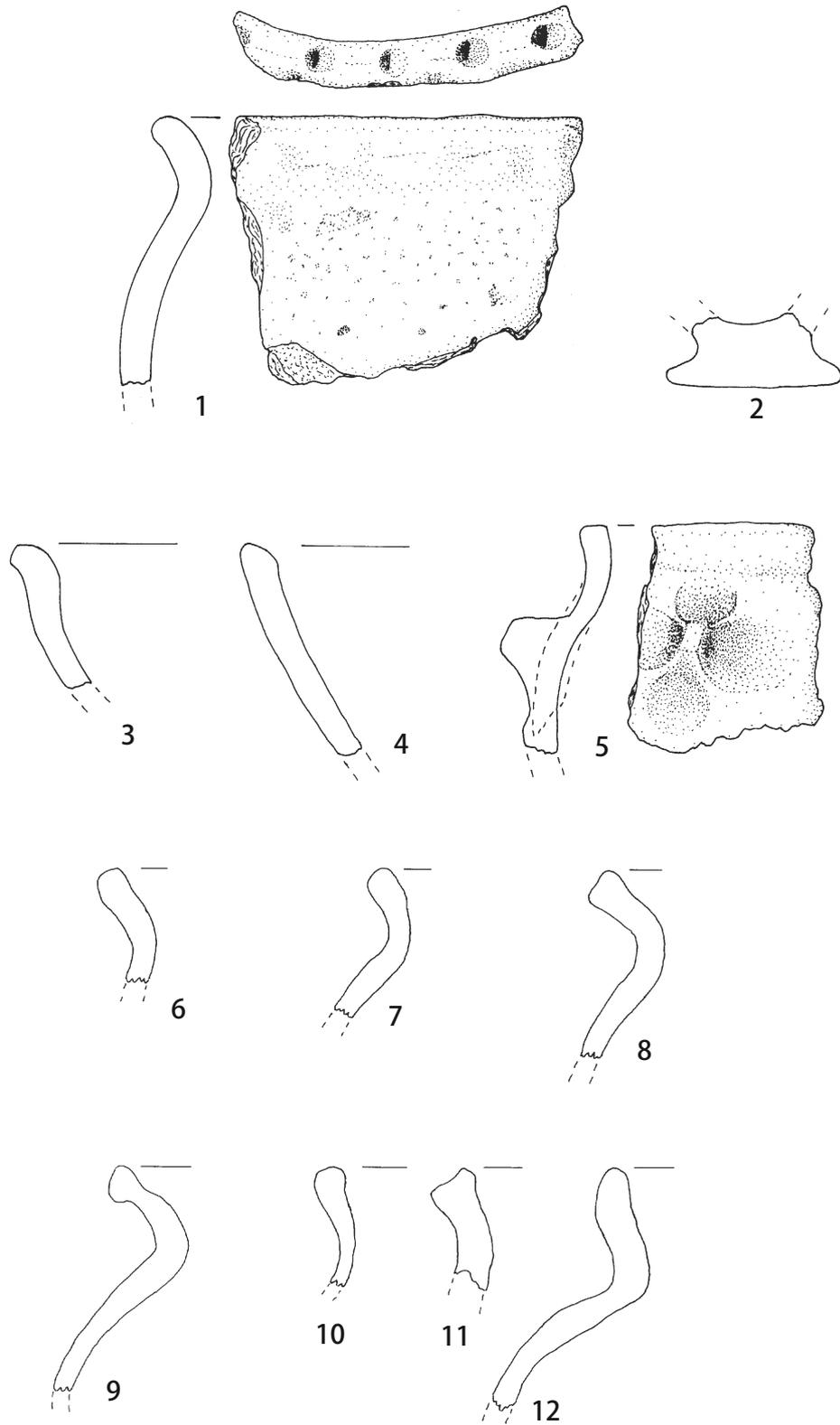
1 9: Jemgum-Boomborg (FStNr. 2710/1:002)
M 1:2

Tafel 75



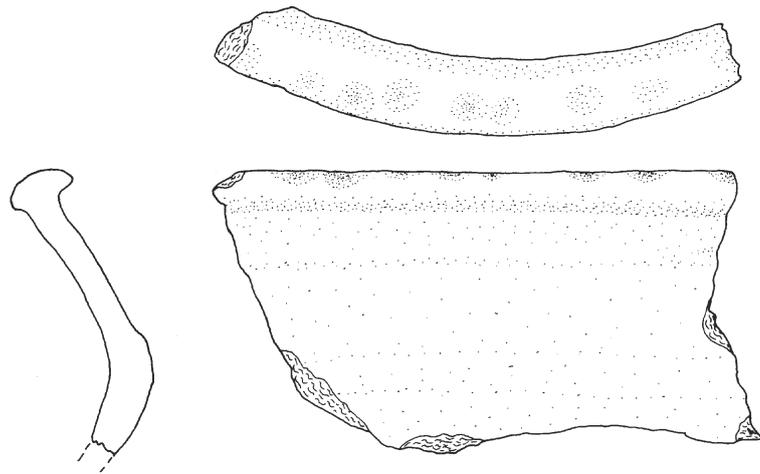
1-10: Jemgum (FStNr. 2710/1:015); 11-18: Jemgumkloster (FStNr. 2710/5:008)
M 1:2

Tafel 76

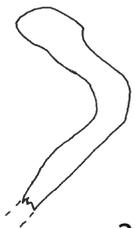


1-5: Holtgaste (FStNr. 2710/5:001); 6-12: Lehmdele Nortmoor (FStNr. 2711/4:099)
M 1:2

Tafel 77



1



2



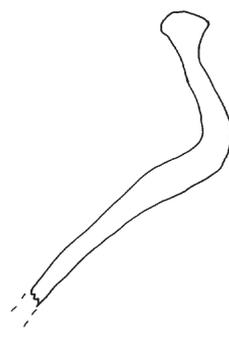
3



4



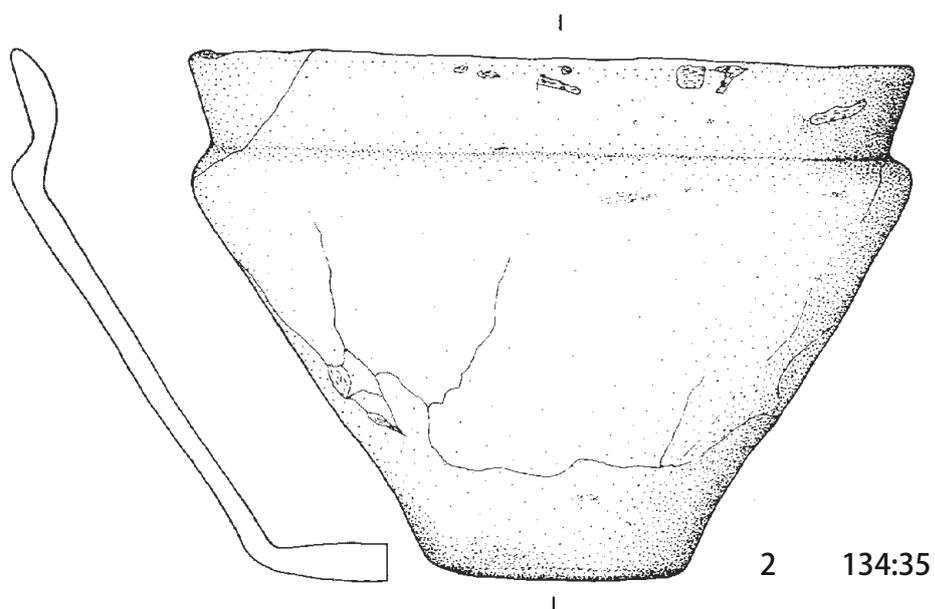
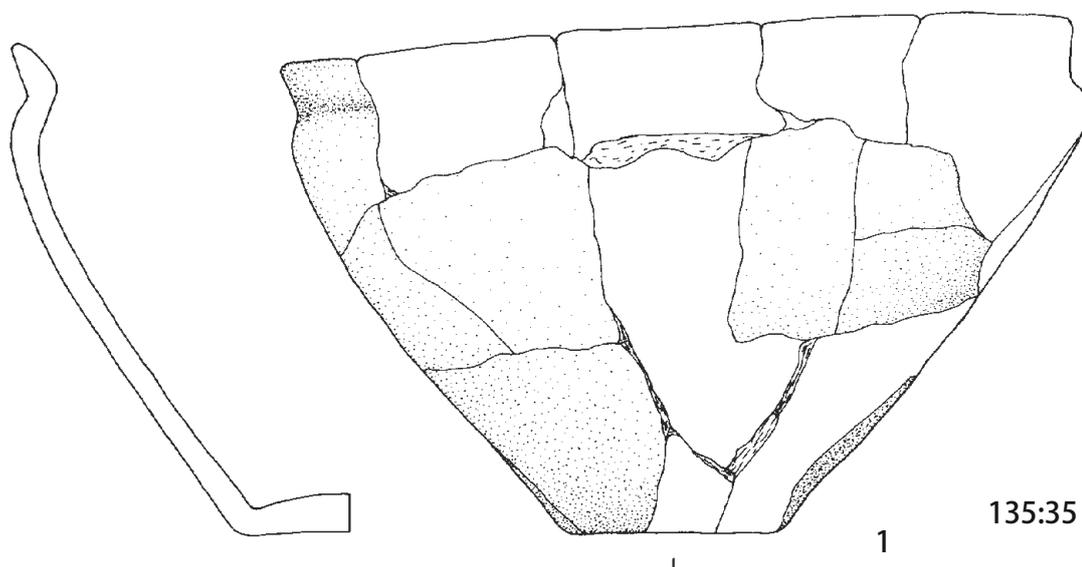
5



6

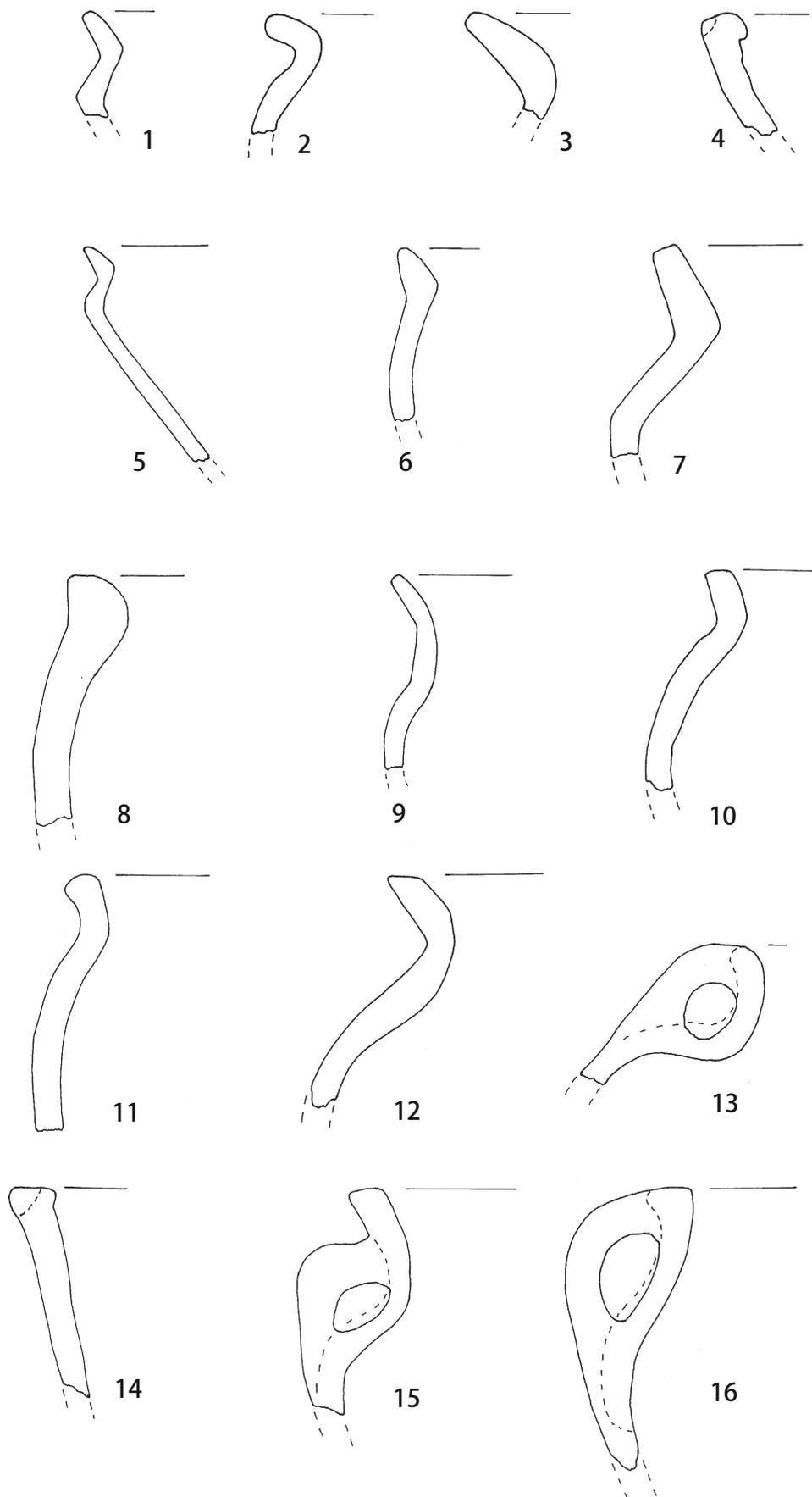


7



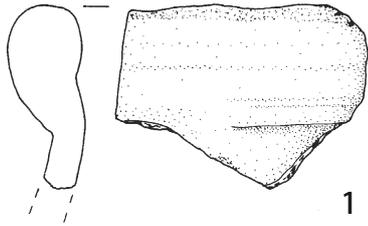
1-2: Plaggenburg-Isbargen (FStNr. 2711/5:092)
M 1:2

Tafel 79

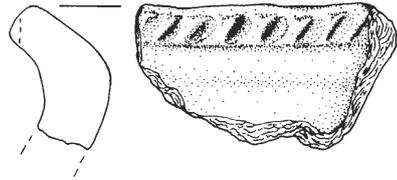


1-4: Oldendorp (FStNr. 2609/9:001); 5-16: Vulle Wier (FStNr. 2709/3:001)
M 1:2

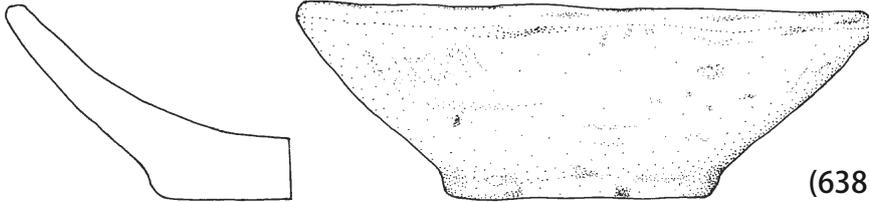
Tafel 80



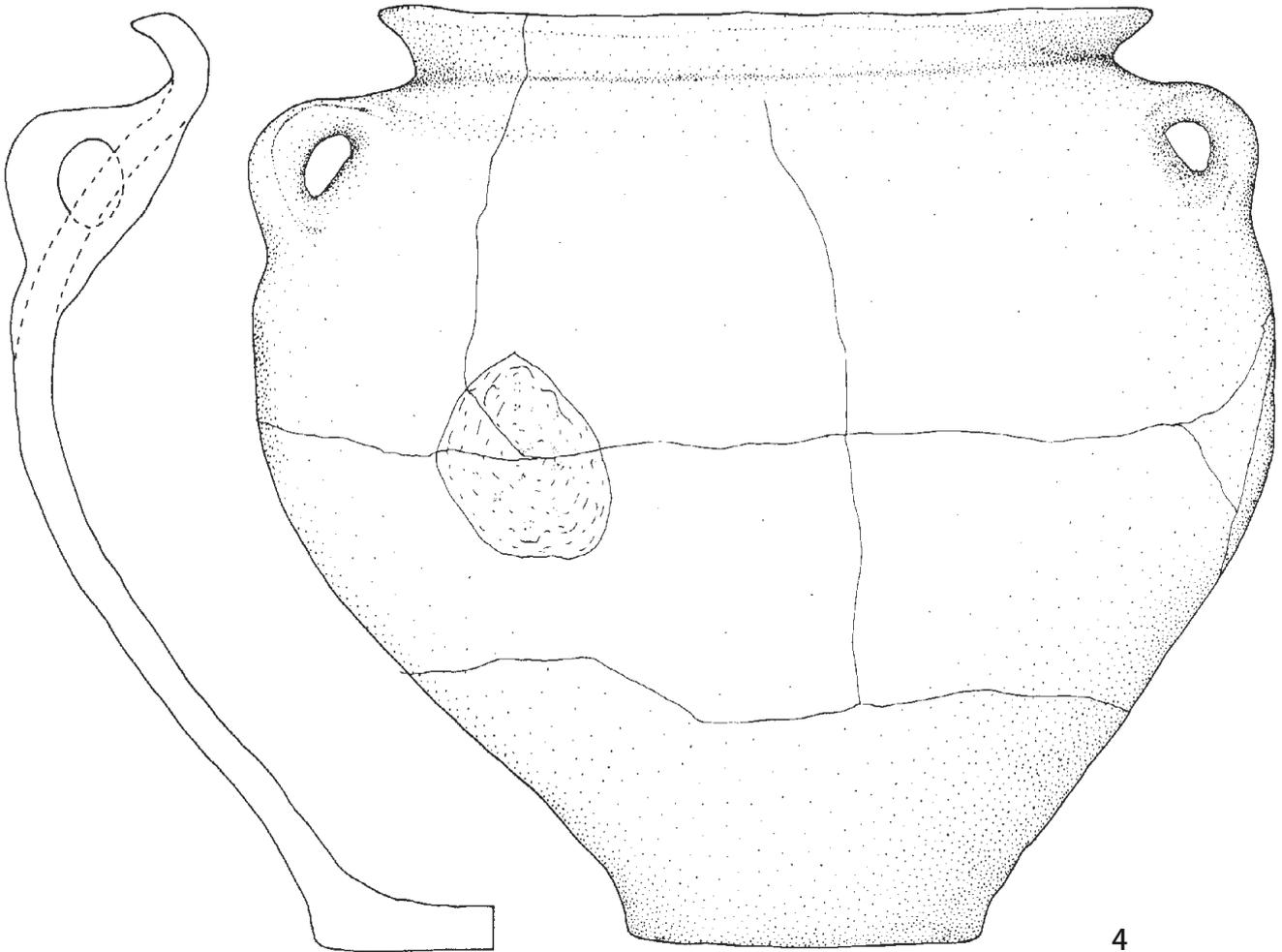
1
(568:32-A44)



2
(585:32-A/47)



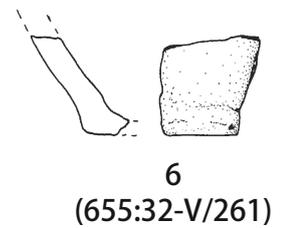
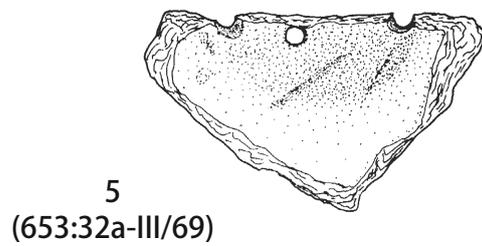
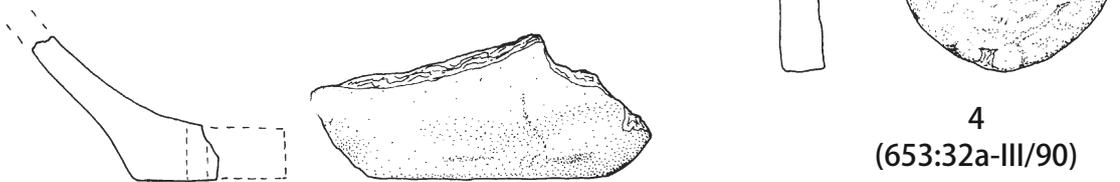
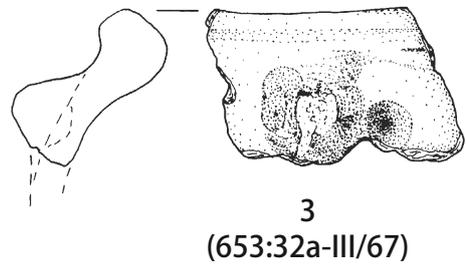
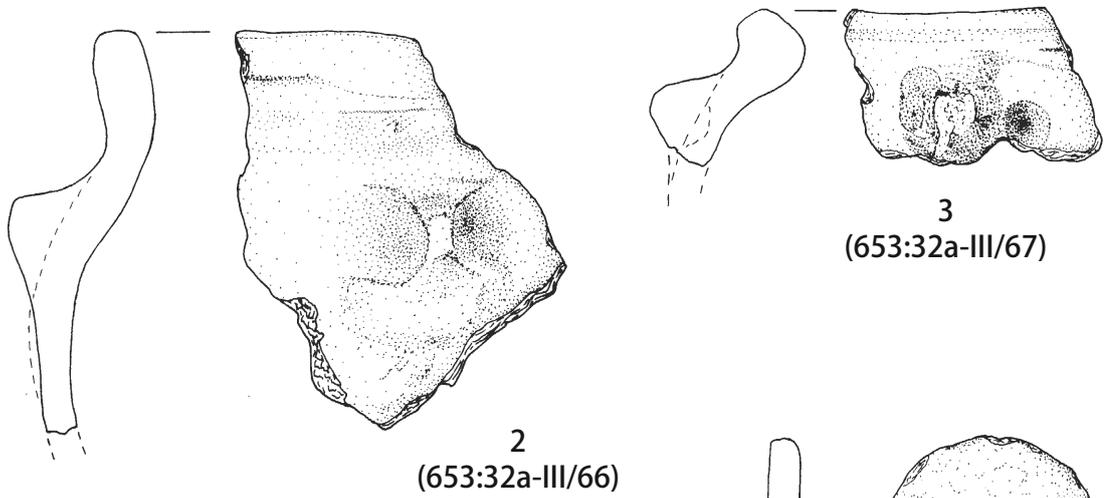
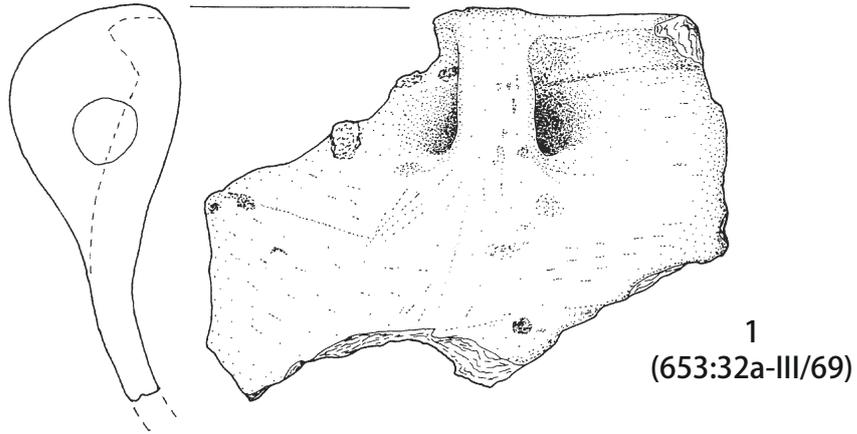
3
(638:32-C/1)



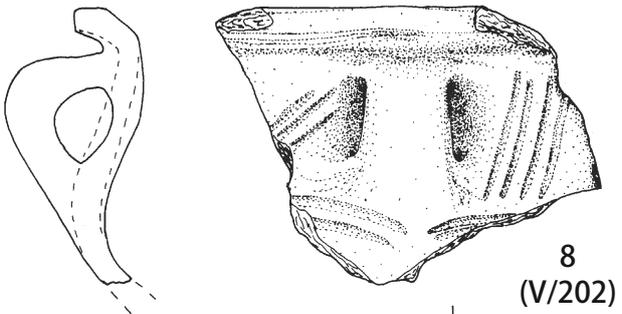
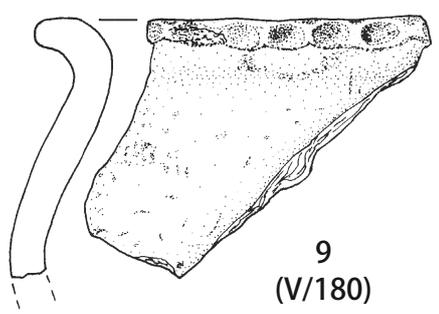
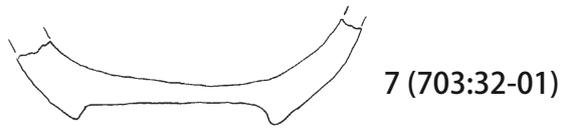
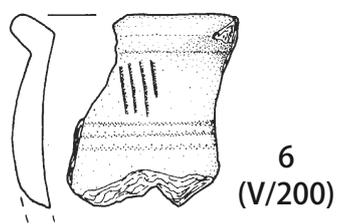
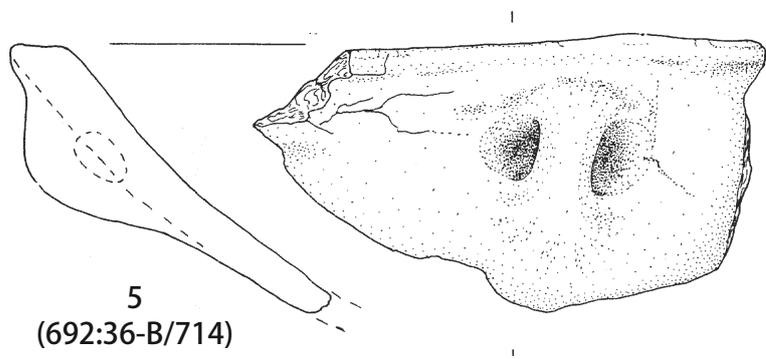
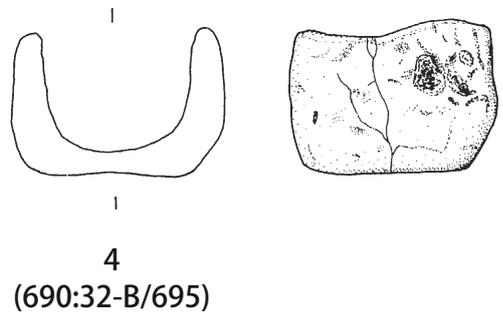
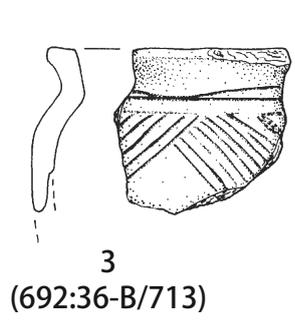
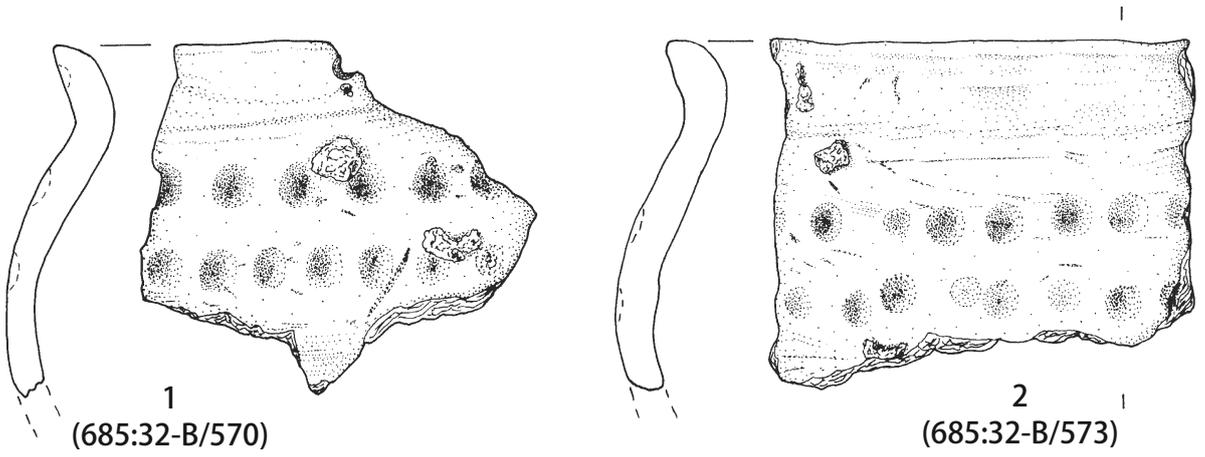
4
(638:32-A/424)

1-4: Eppingerwehr (FStNr. 2710/1:001)
M 1:2

Tafel 81

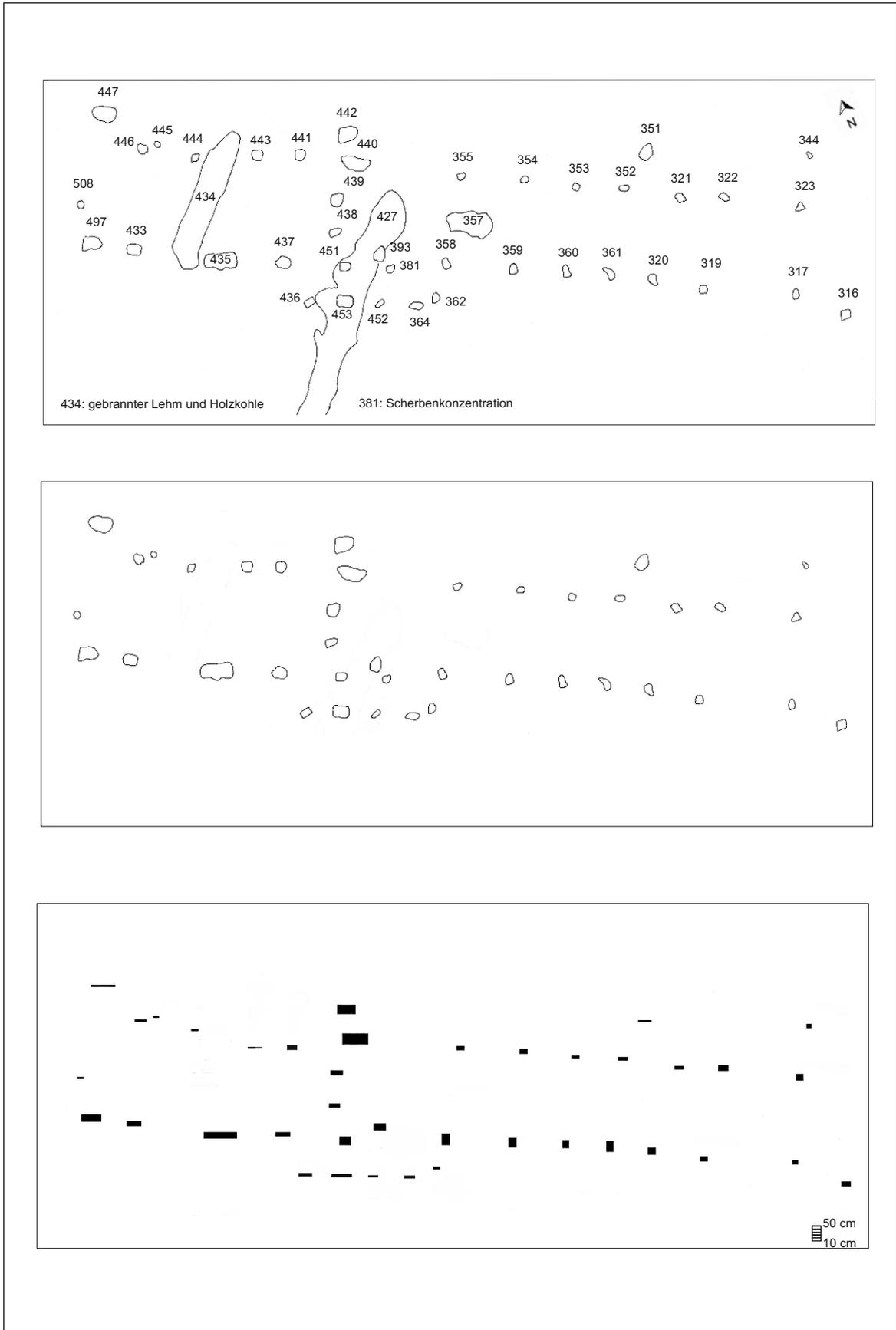


Tafel 82



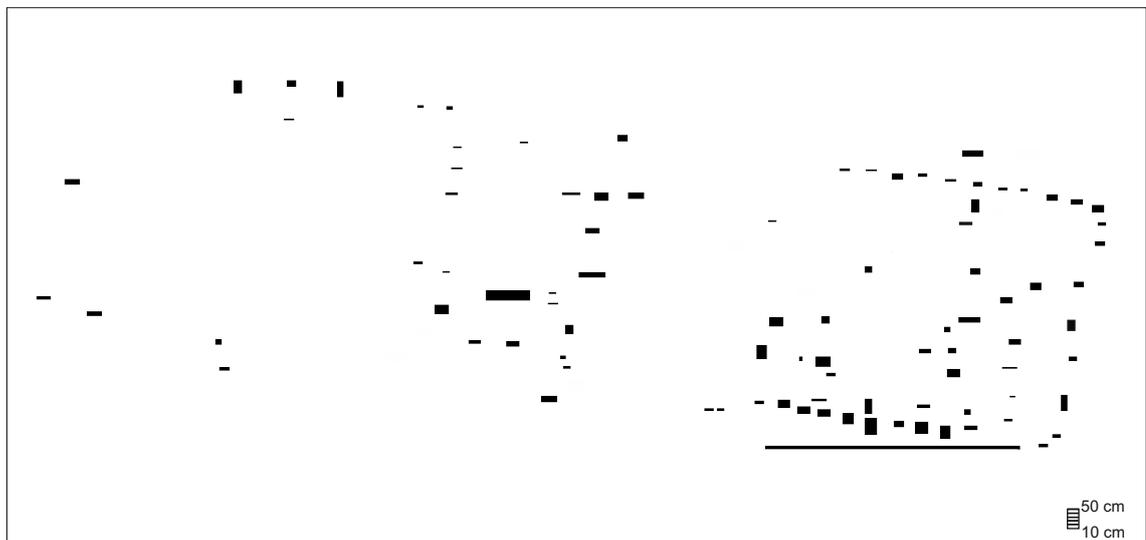
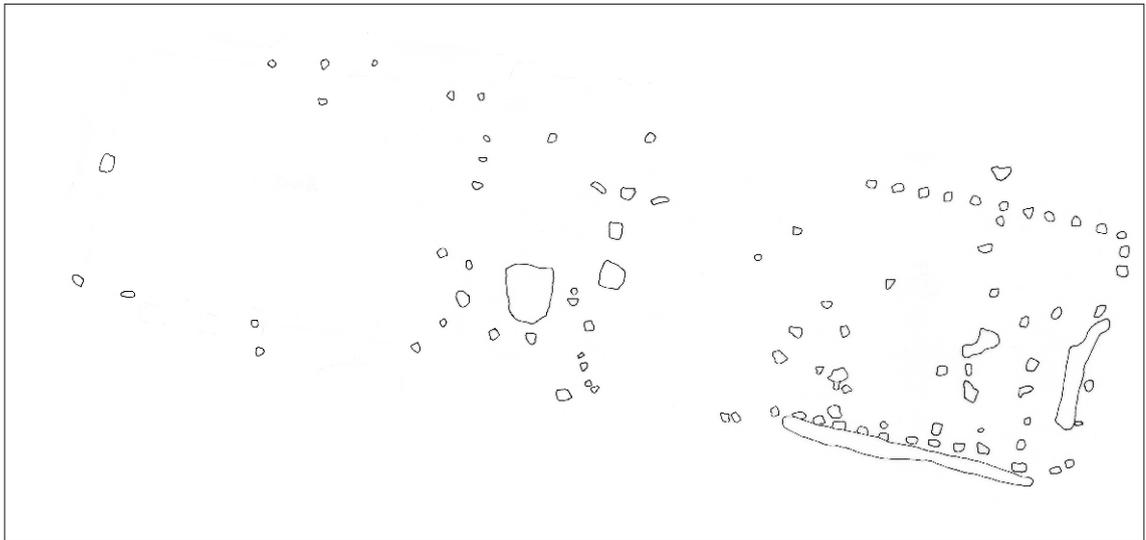
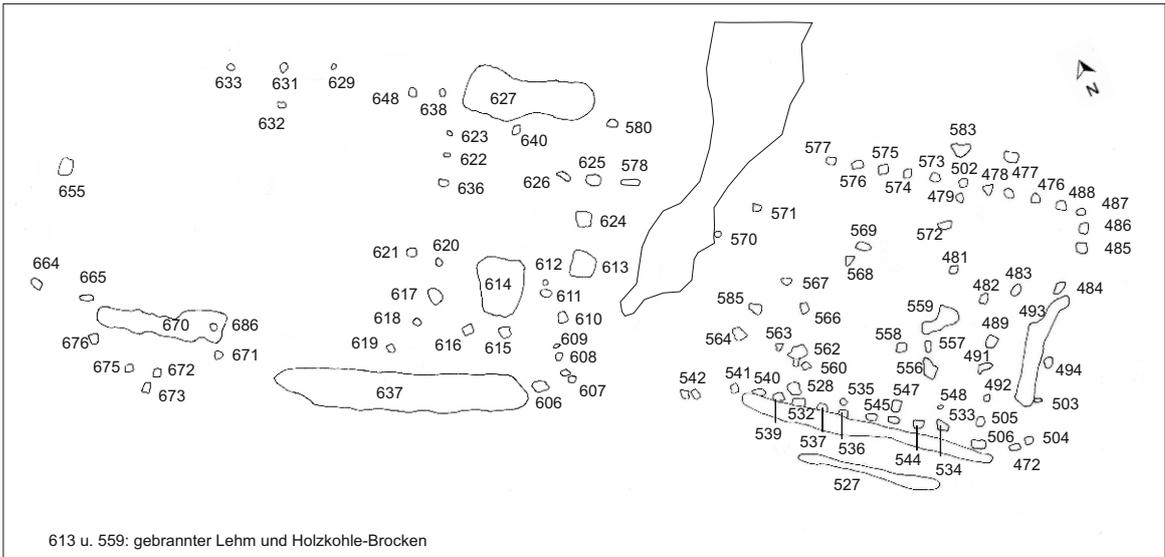
1-9: Eppingerwehr (FStNr. 2710/1:001)
M 1:2

Tafel 83



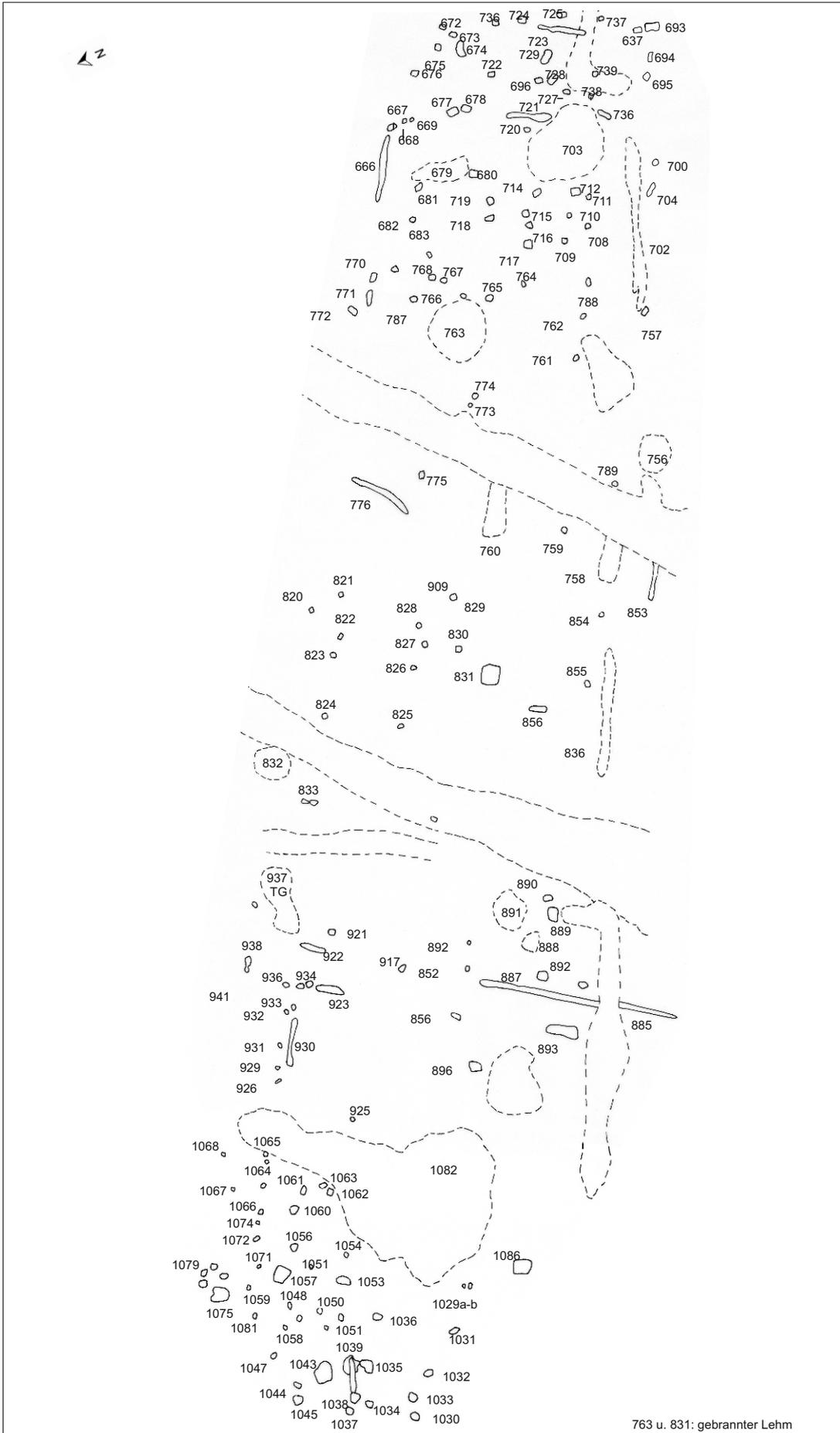
Nortmoorer Hammrich
Hausplatz I M 1 : 200

Tafel 84



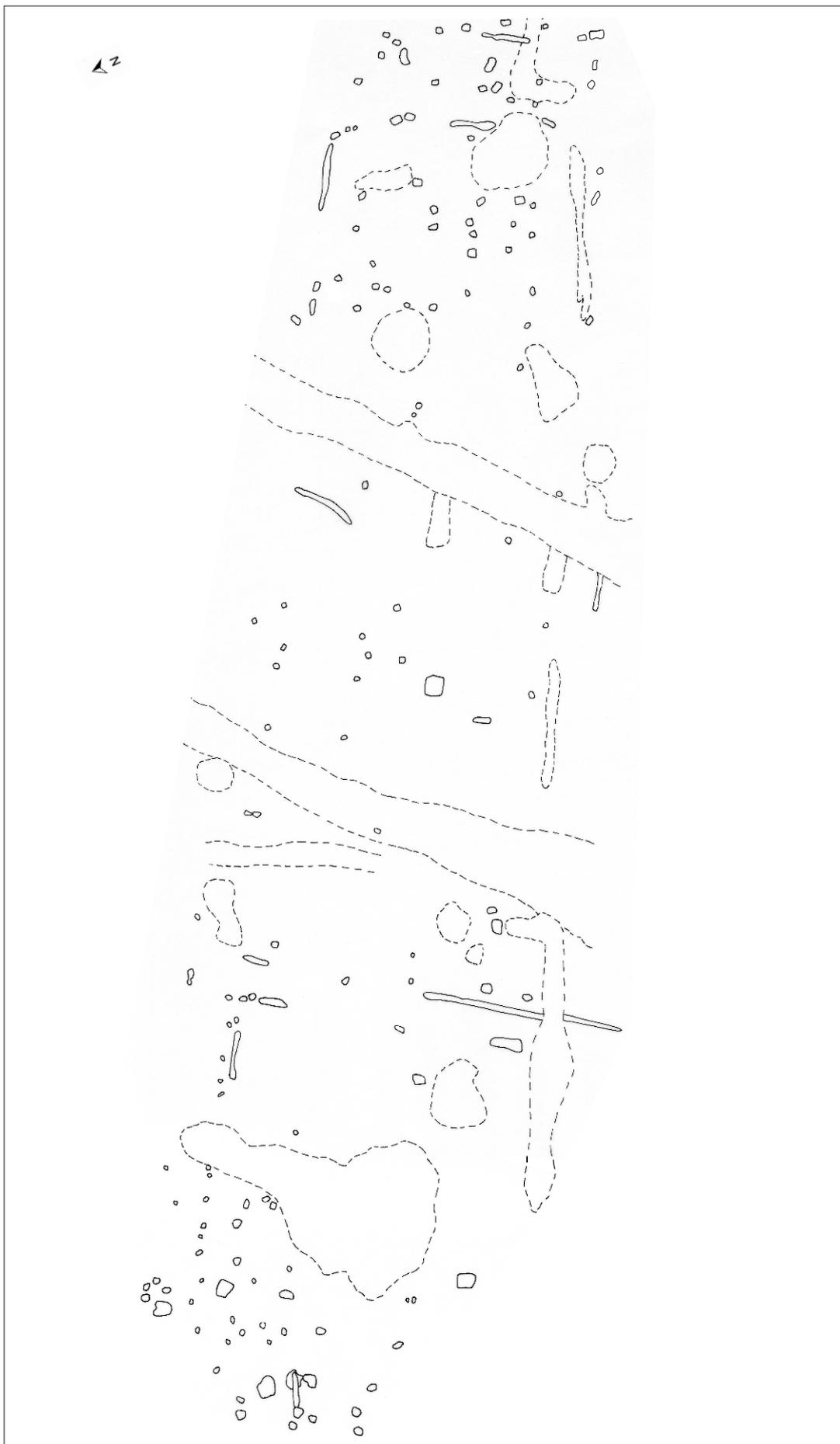
Nortmoorer Hammrich
Hausplatz II M 1 : 200

Tafel 85



Nortmoorer Hammrich
Hausplatz III M 1 : 200

763 u. 831: gebrannter Lehm



Nortmoorer Hamrich
Hausplatz III M 1 : 200

Tafel 87



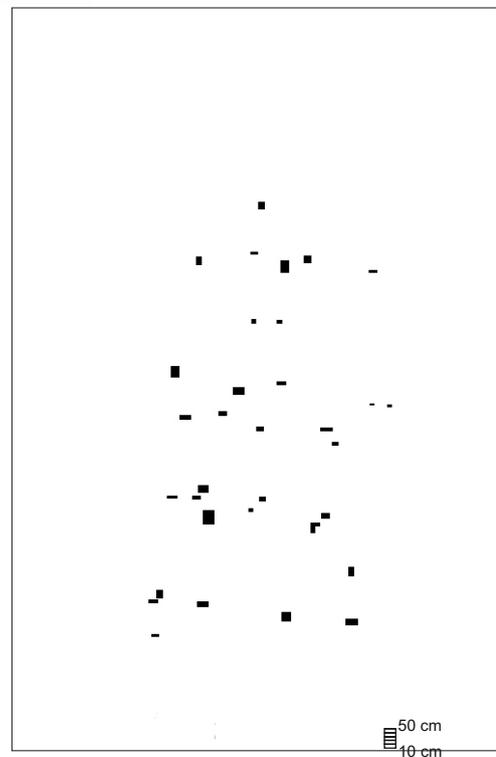
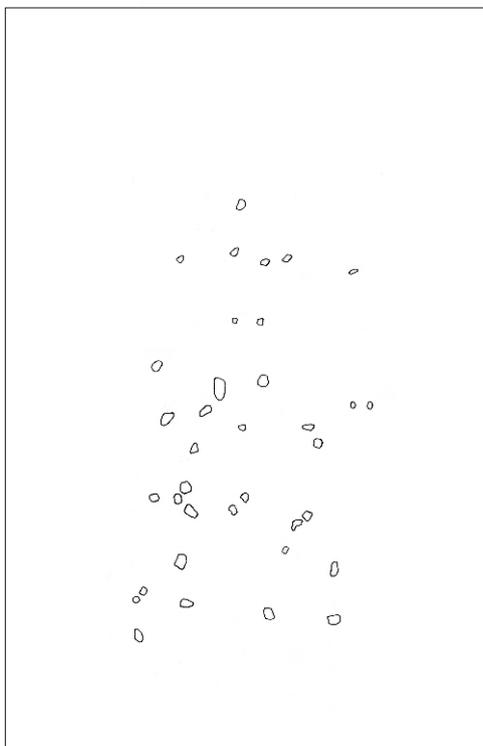
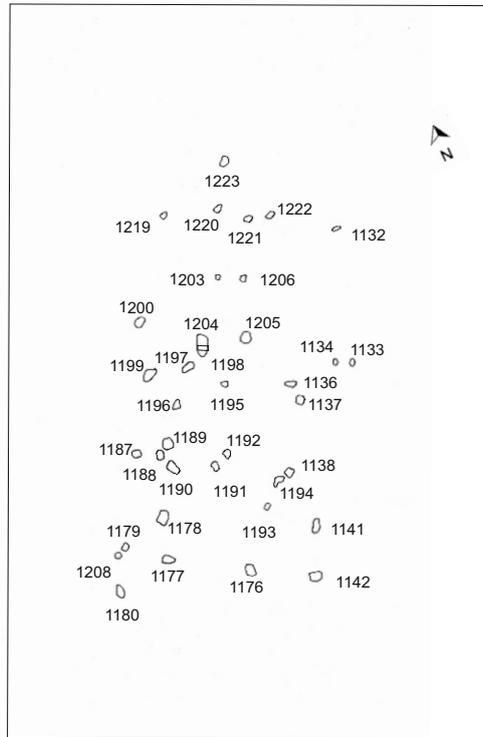
Nortmoorer Hammrich
Hausplatz III M 1 : 200

Tafel 88

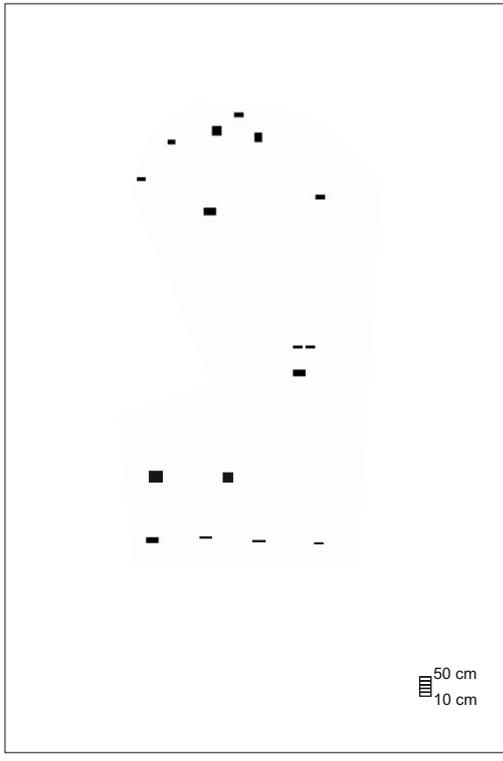
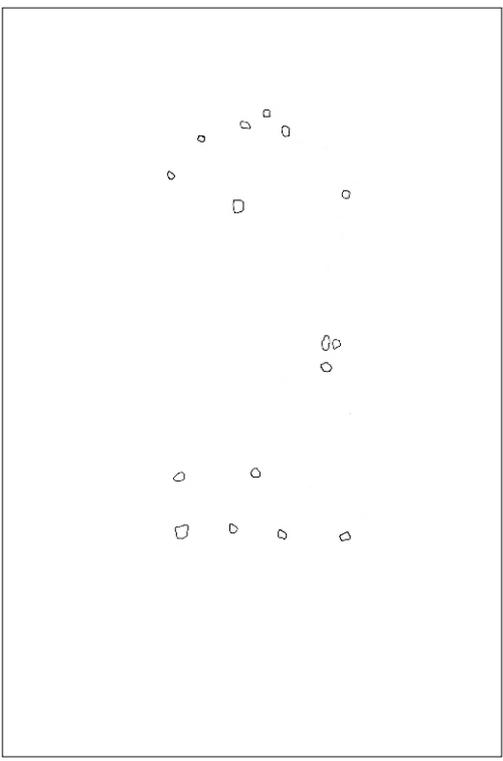
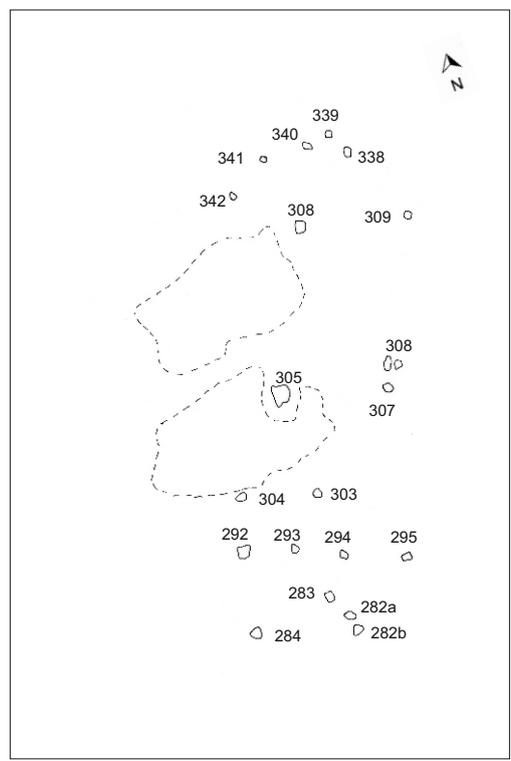


Nortmoorer Hammrich
Haus III M 1 : 200

Tafel 89

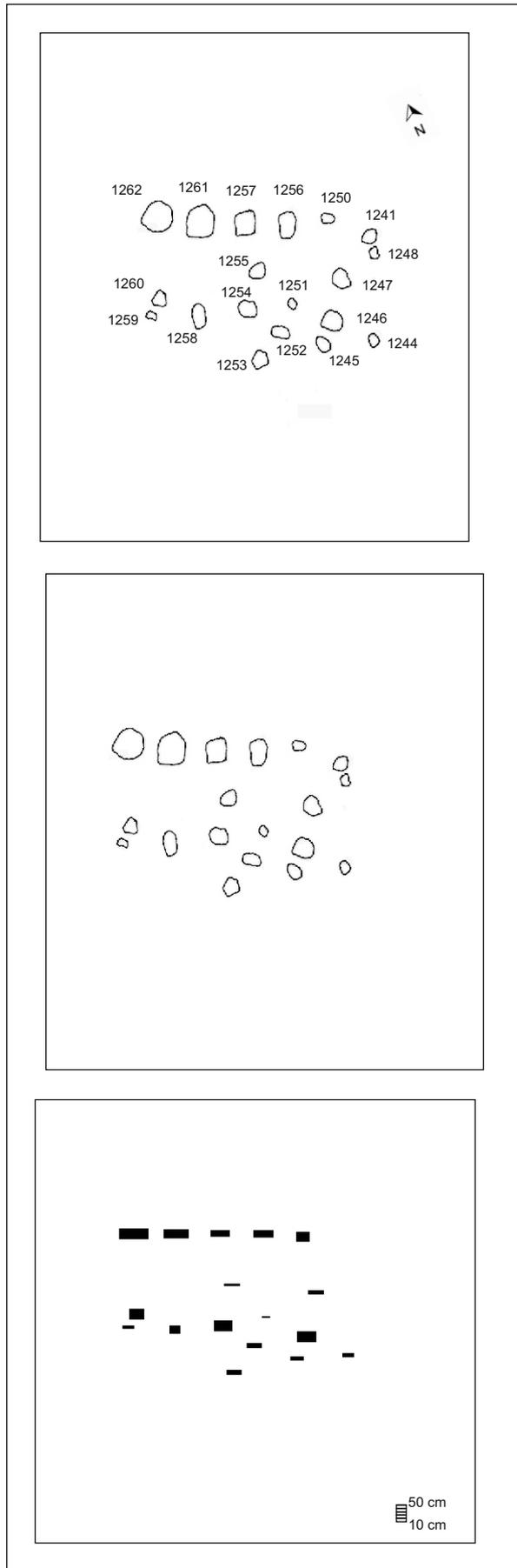
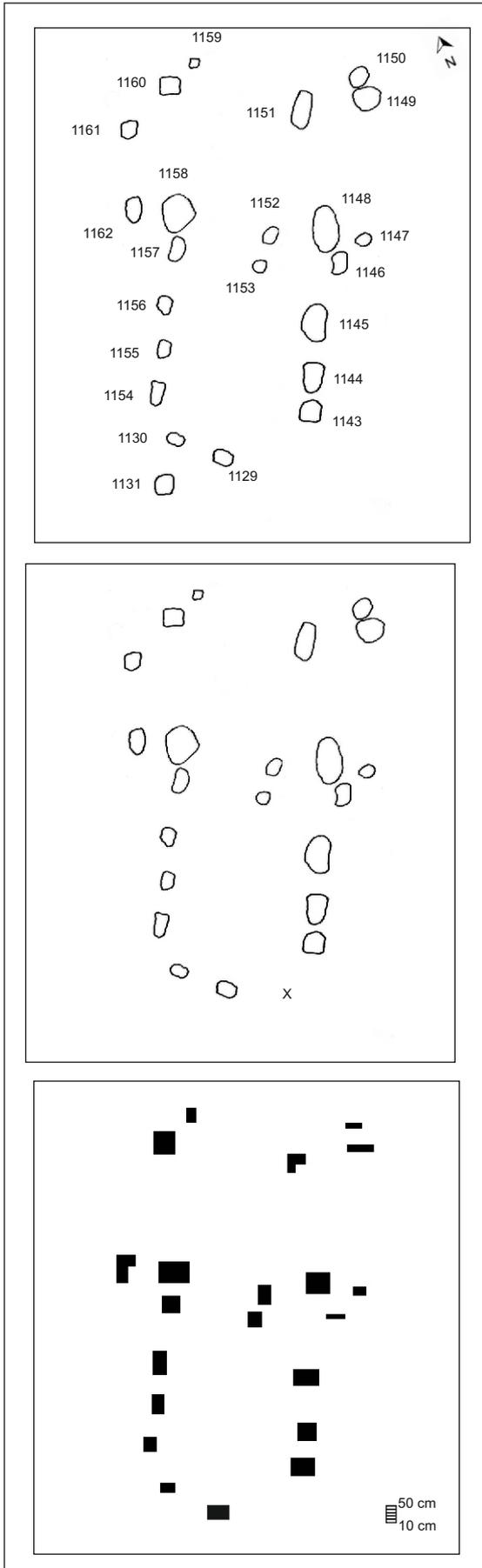


Tafel 90



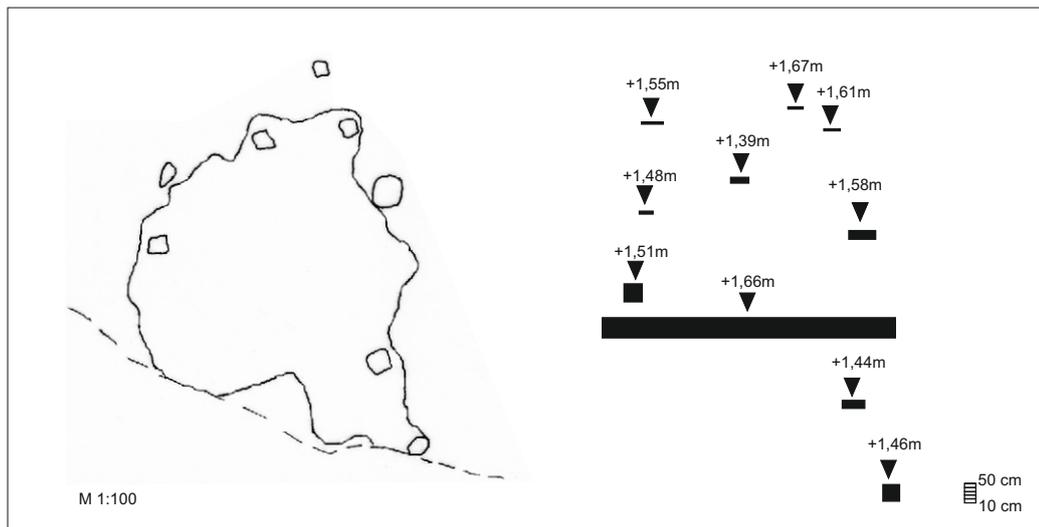
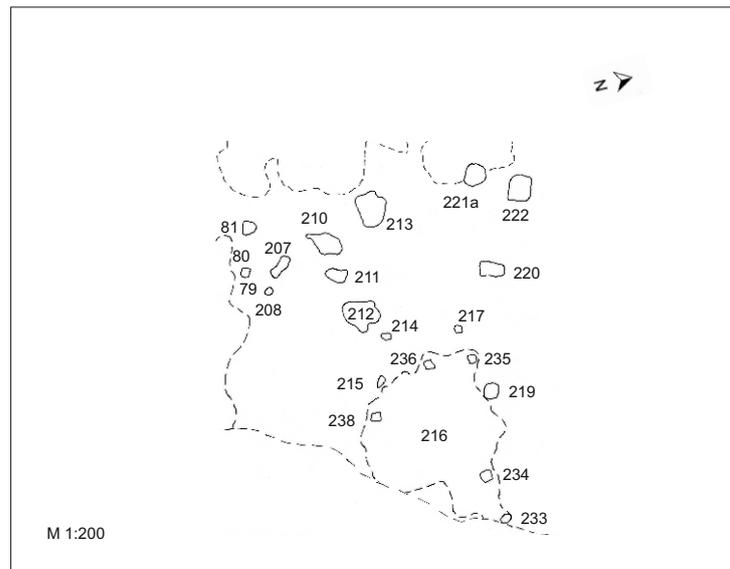
Nortmoorer Hammrich
Hausplatz IV M 1 : 200

Tafel 91



Nortmoorer Hammrich
Kleingebäude M 1 : 100

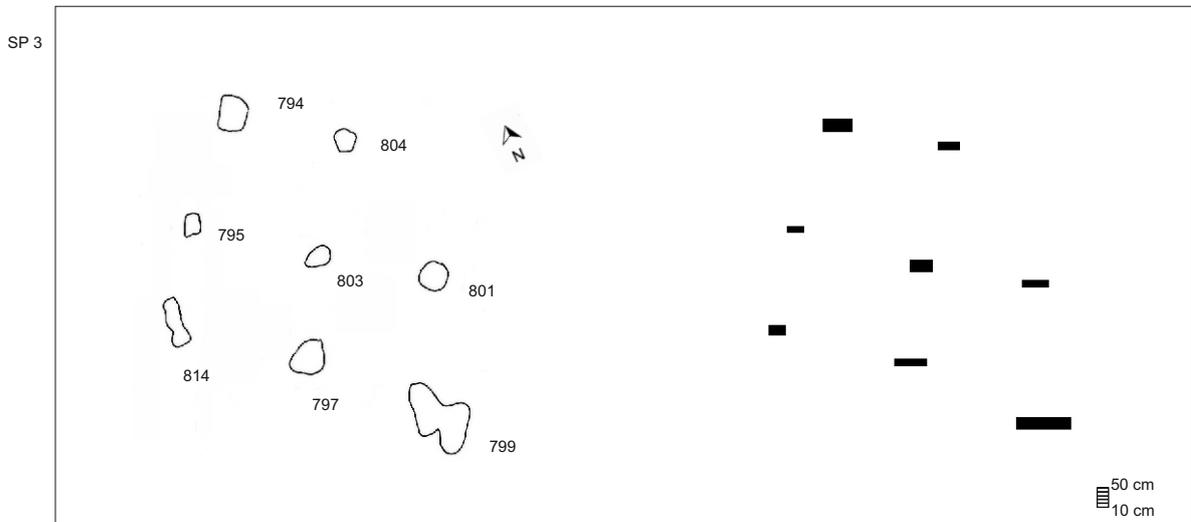
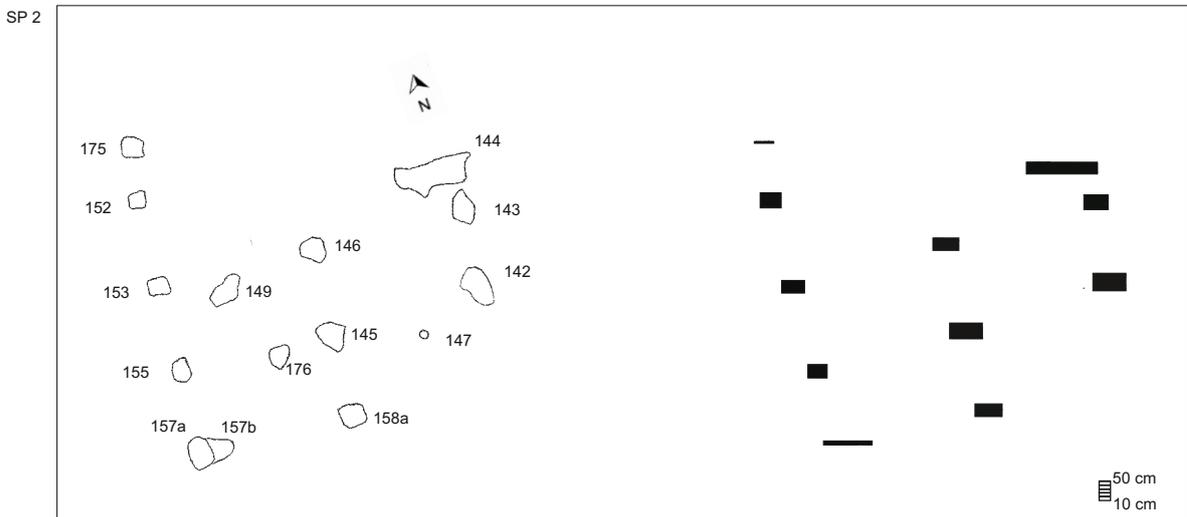
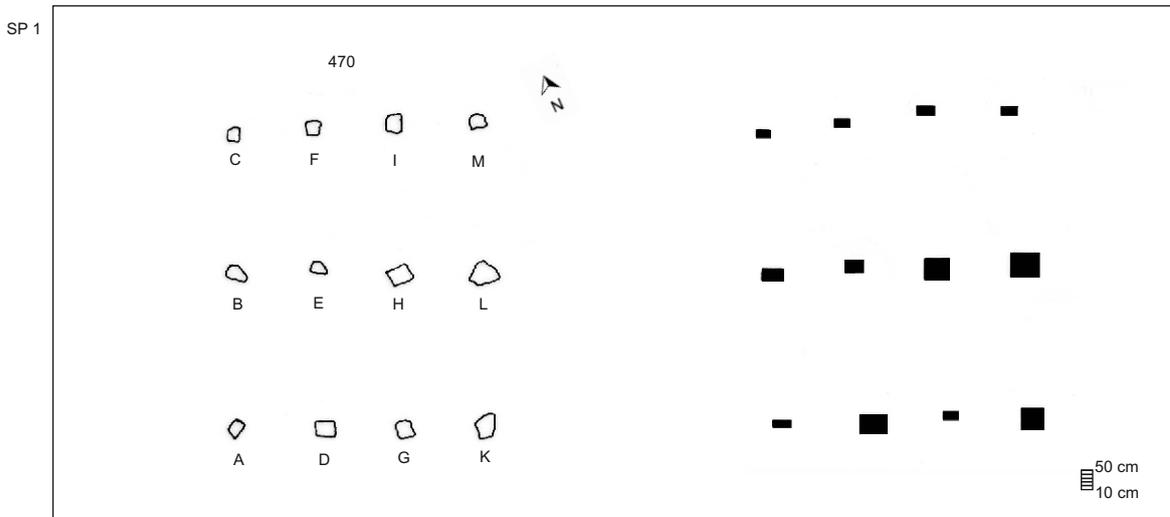
Tafel 92



Grubenhaus Kat.Nr. 216, Profil A-B

Nortmoorer Hammrich Grubenhaus

Tafel 93

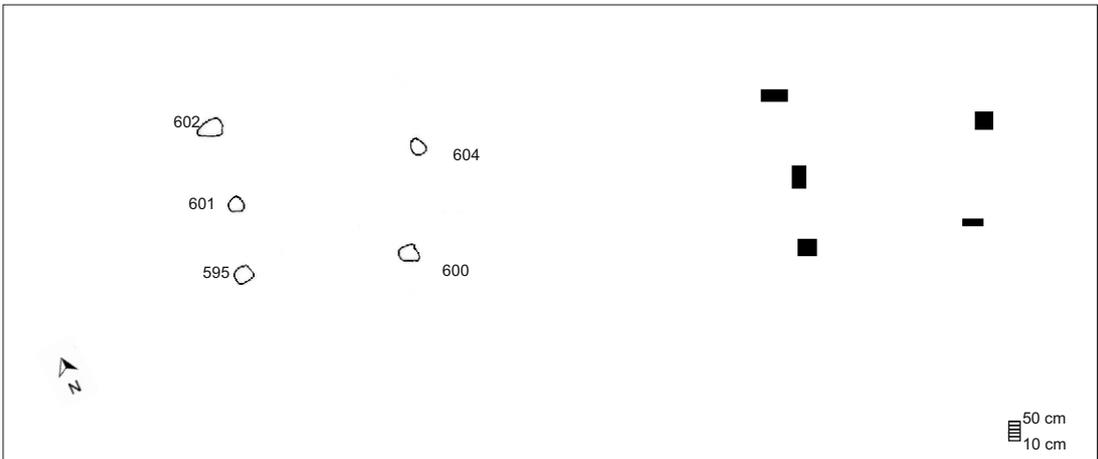


Tafel 94

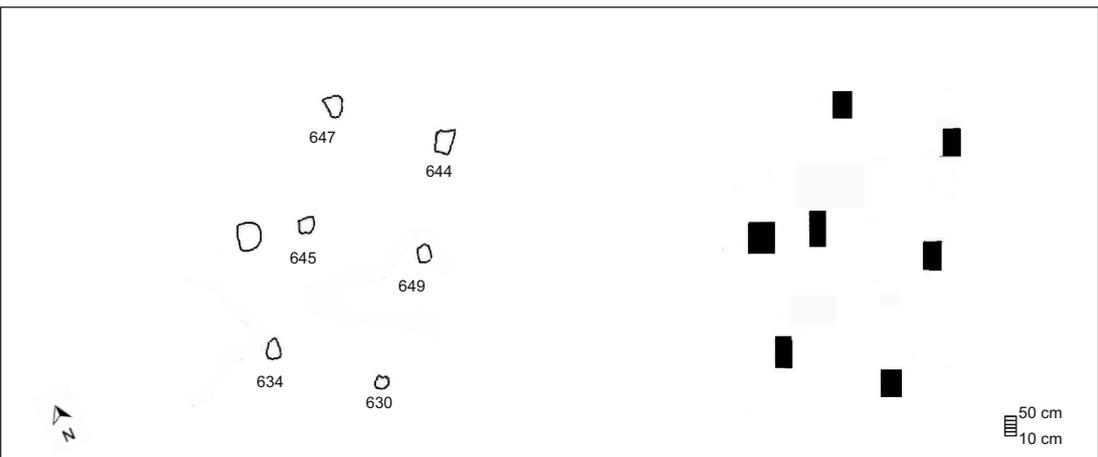
SP 4



SP 5



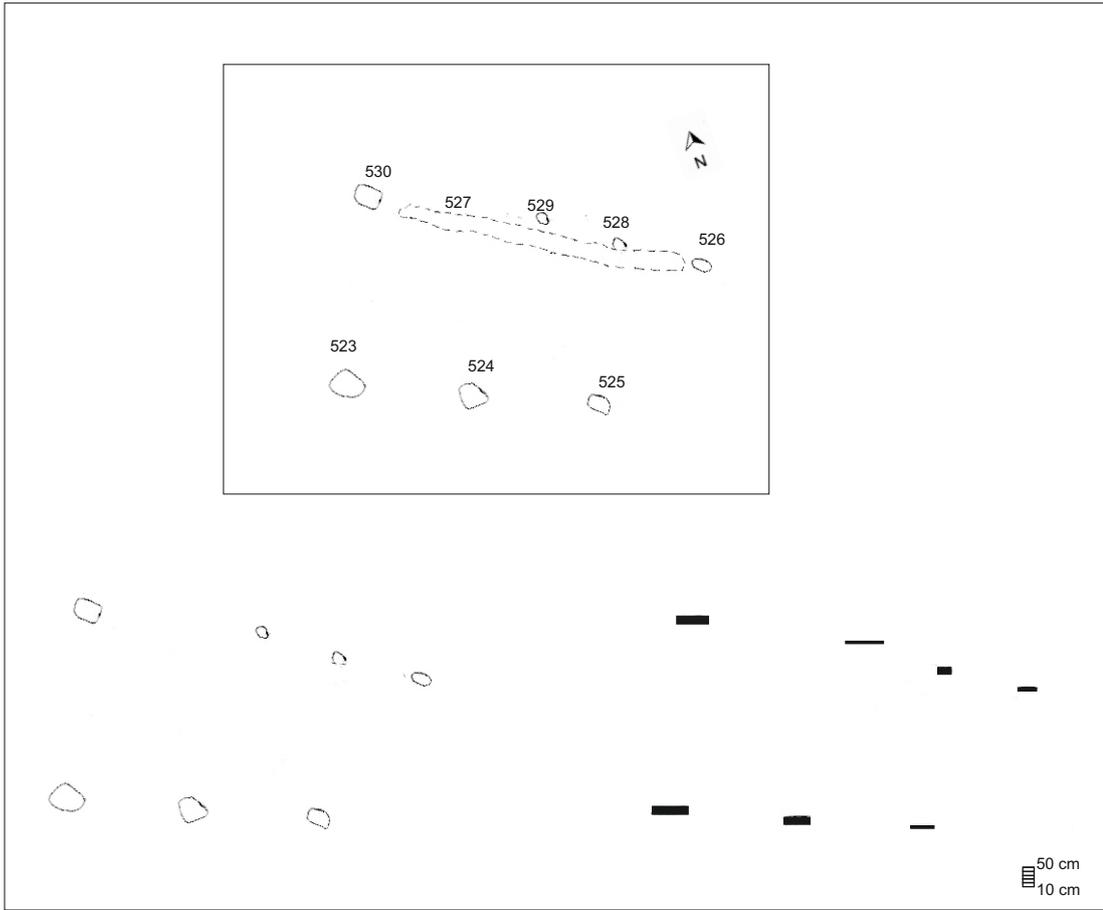
SP 6



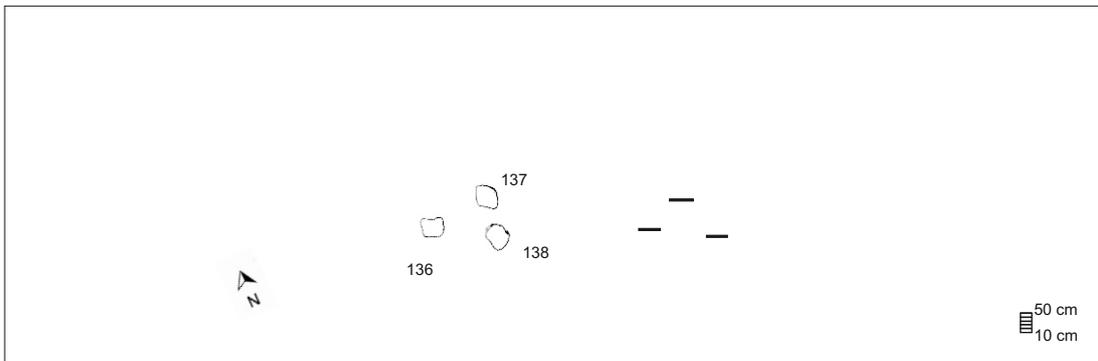
Nortmoorer Hammrich
Speicherbauten M 1 : 100

Tafel 95

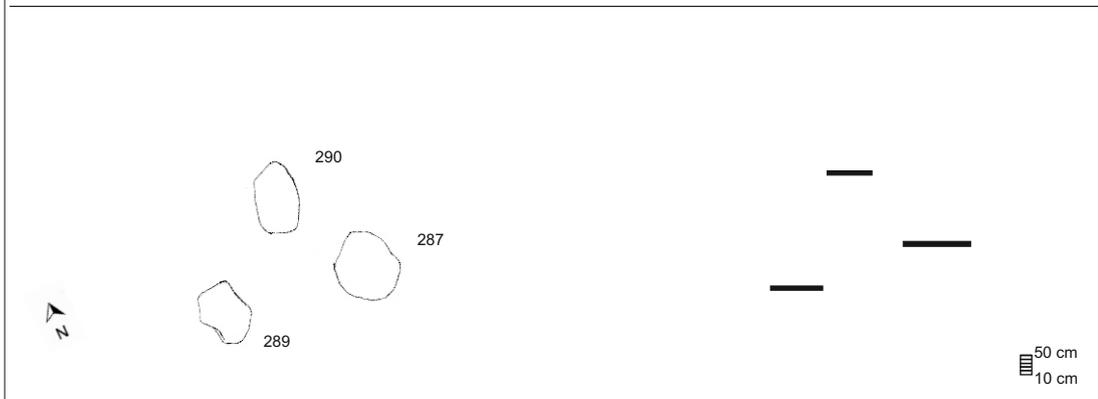
SP 7



SP 8

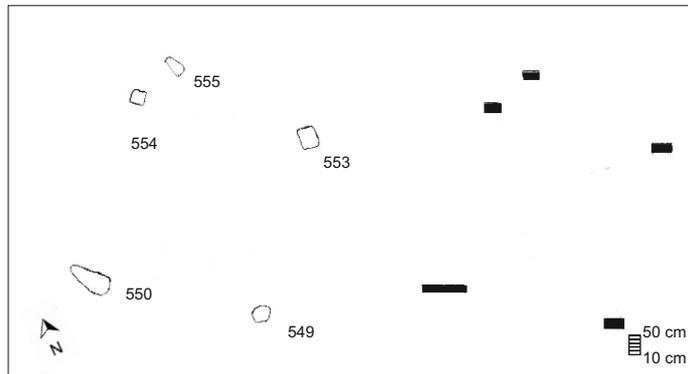


SP 9

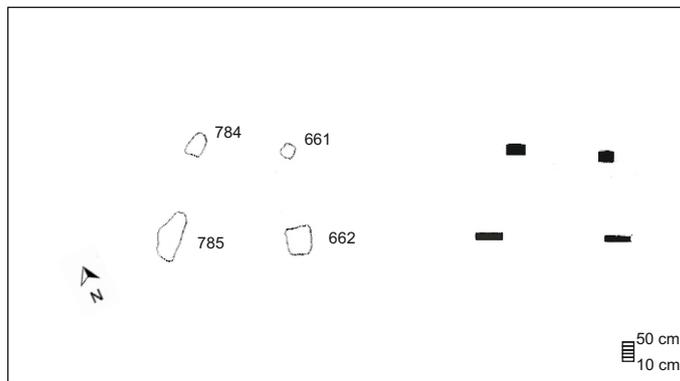


Tafel 96

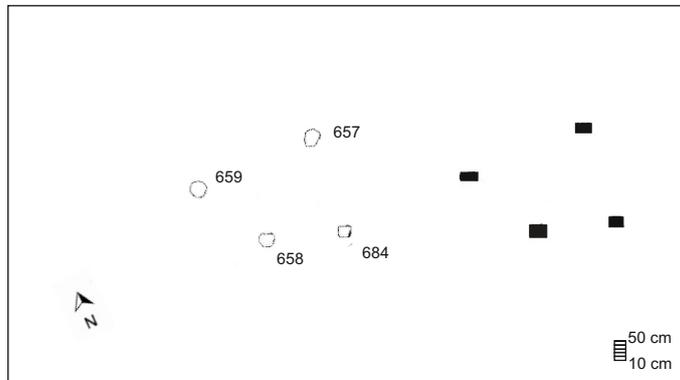
SP 10



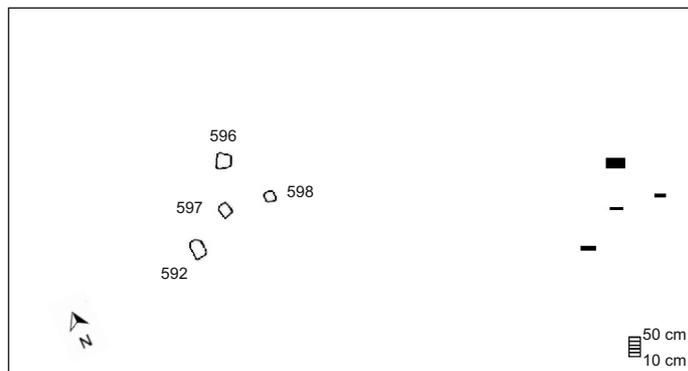
SP 11



SP 12

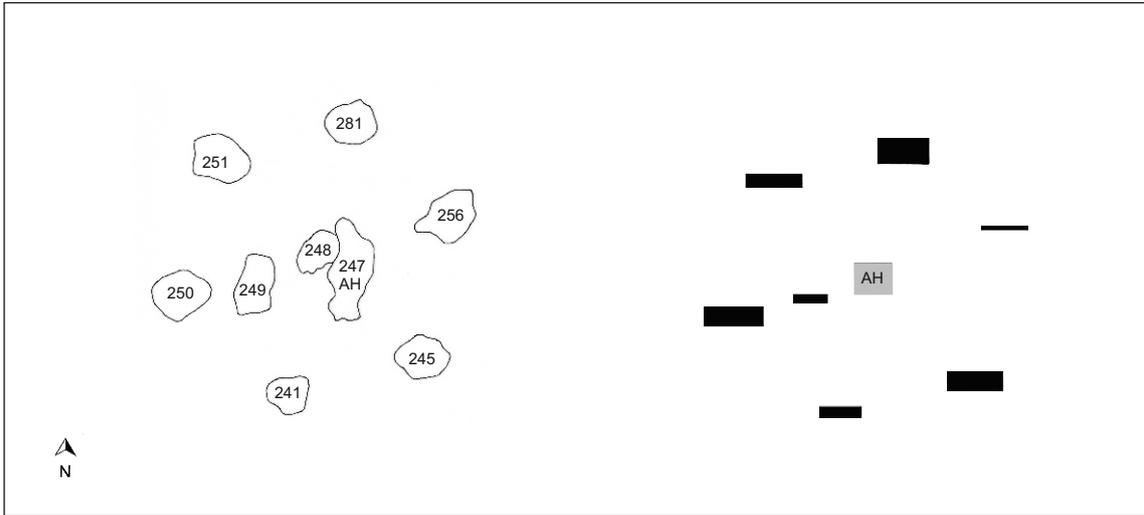


SP 13

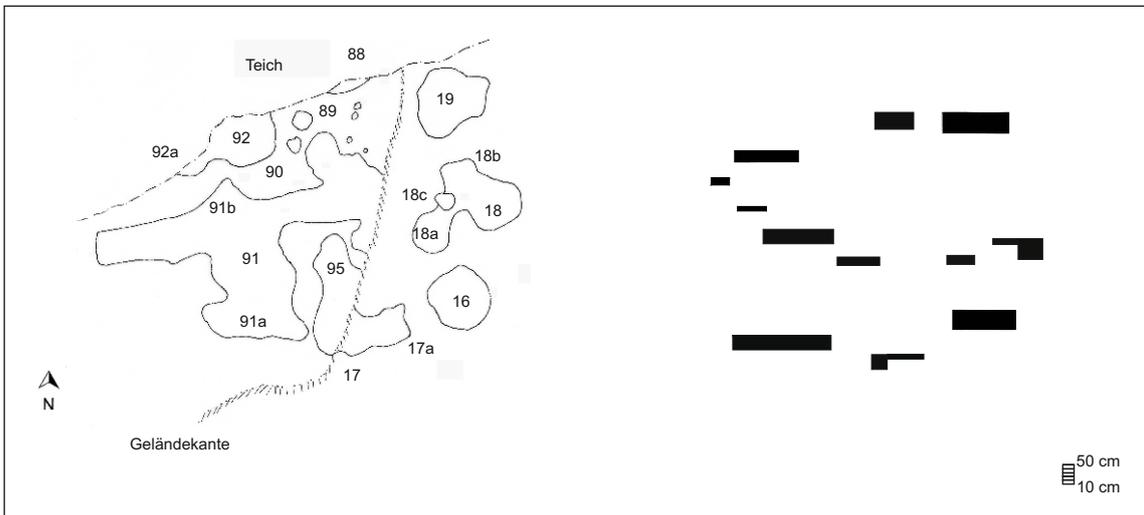


Tafel 97

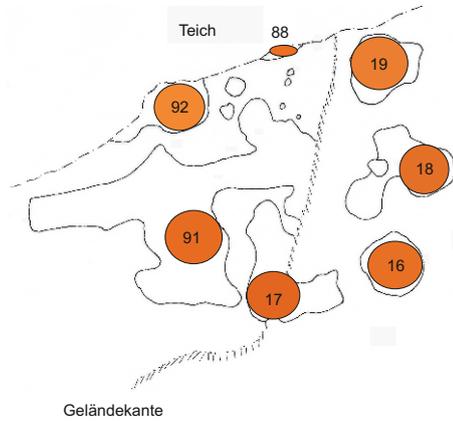
SP 13



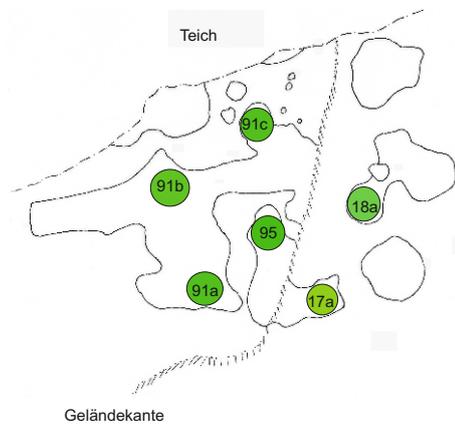
SP 14



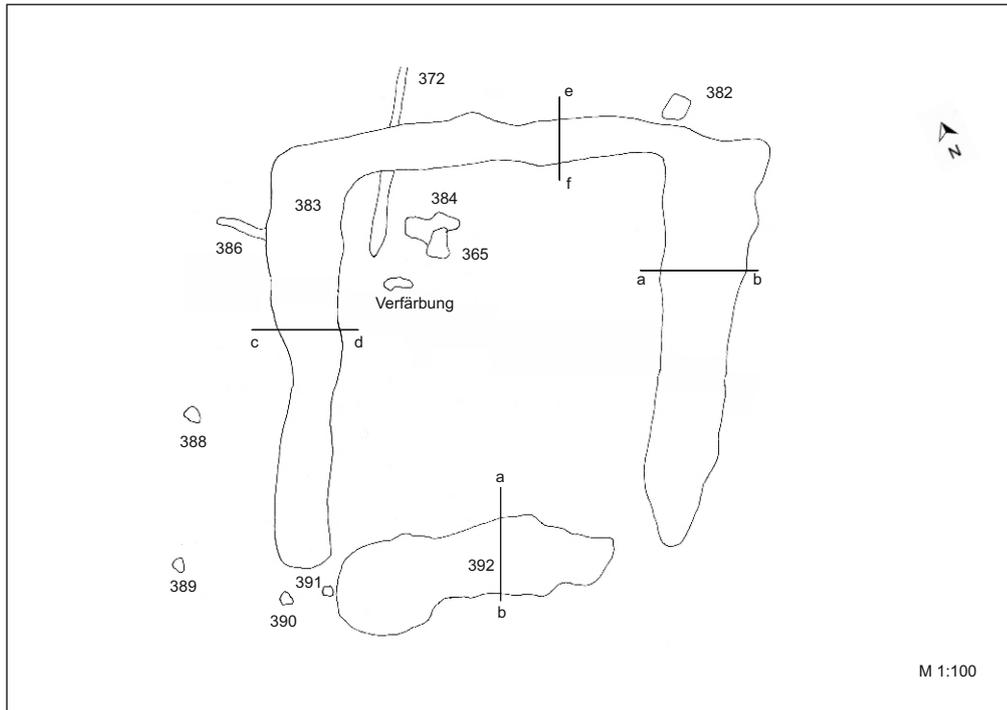
SP 14 (a)



SP 14 (b)



Tafel 98



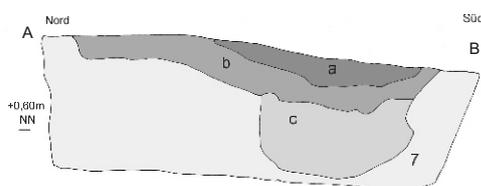
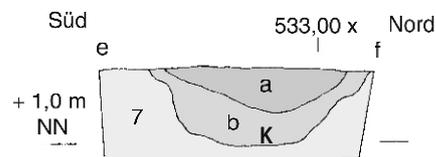
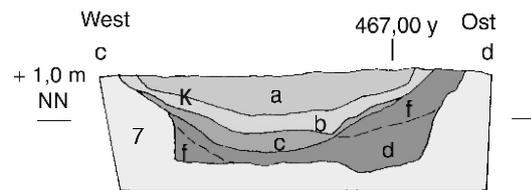
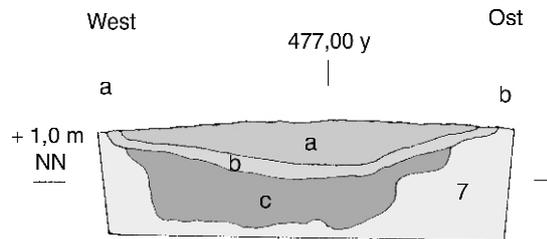
Kat.Nr. 383, M 1:40
K: Keramikfund

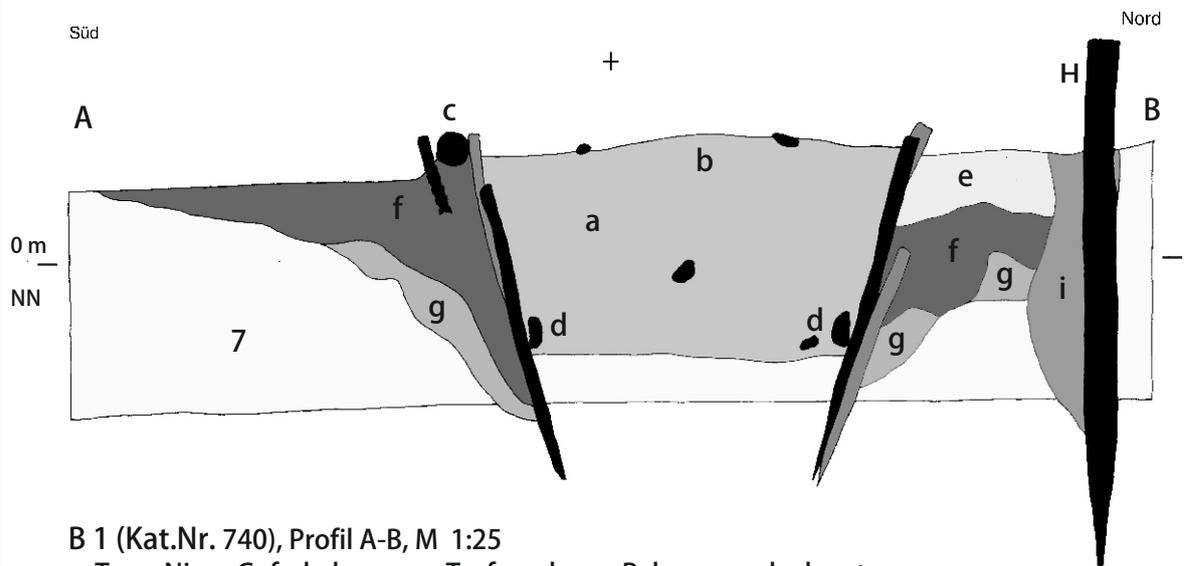
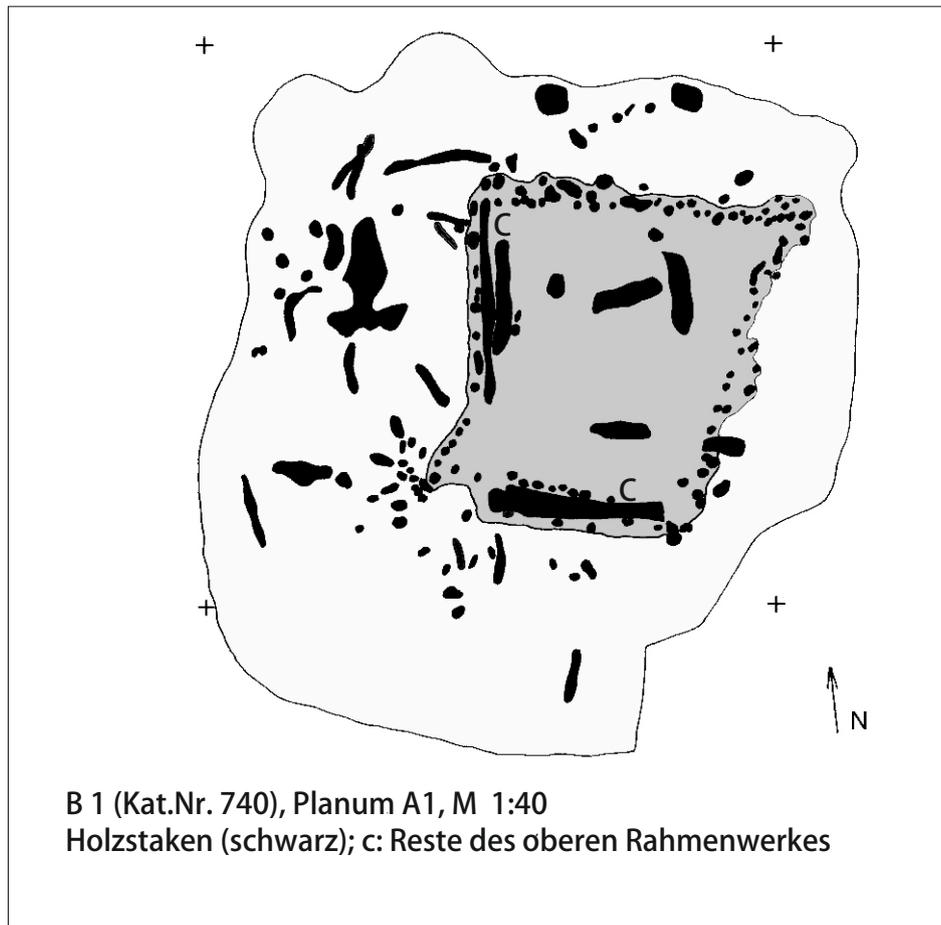
Profil a-b:
a: grauer Klei mit HK (Schicht 2)
b: humoser Sand; c: Verfärbung
humoser Sand; 7: pleistozener Sand

Profil c-d:
a: Klei vgl. 2; b: toniger Sand;
c: Torf; d: Grubenverfüllung
eingeschwemmter Sand; f: siehe d;
7: pleistozener Sand

Profil e-f:
a: Klei vgl. 2; b: weißer und hellgelber
Sand, besteht aus zwei Schichtpaketen
a 10 cm; 7: pleistozener Sand

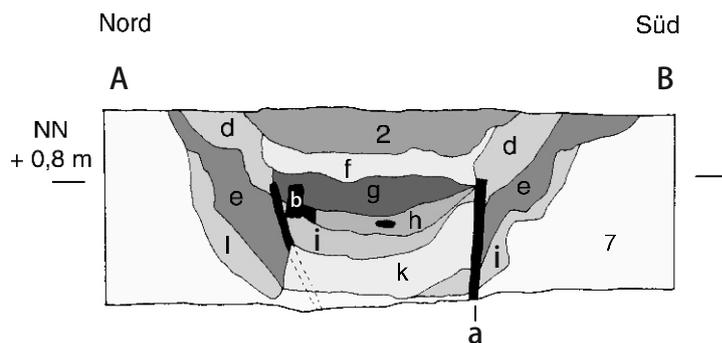
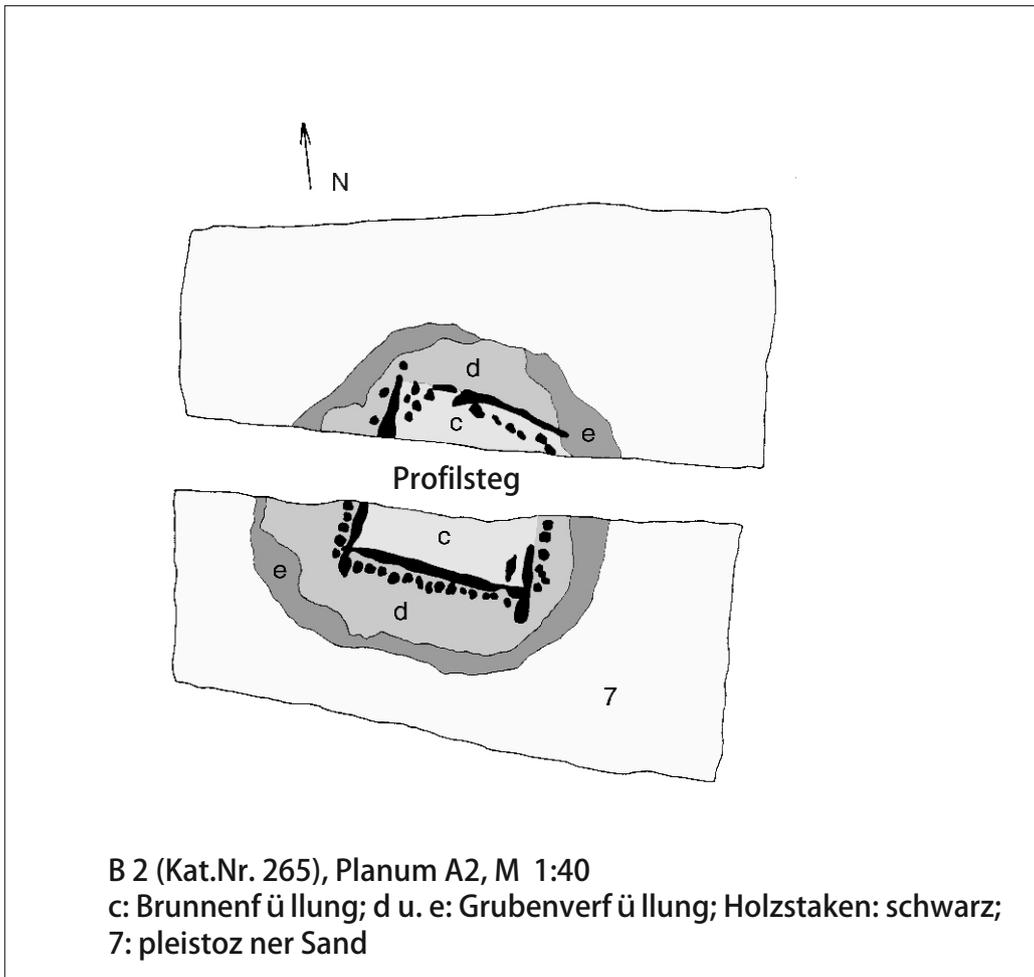
Kat.Nr. 392, M 1:40
a: tonige Sand-Klei (Schicht 2);
b: Bleichsand; c: Grubenverfüllung
eingeschwemmter Sand;
7: pleistozener Sand





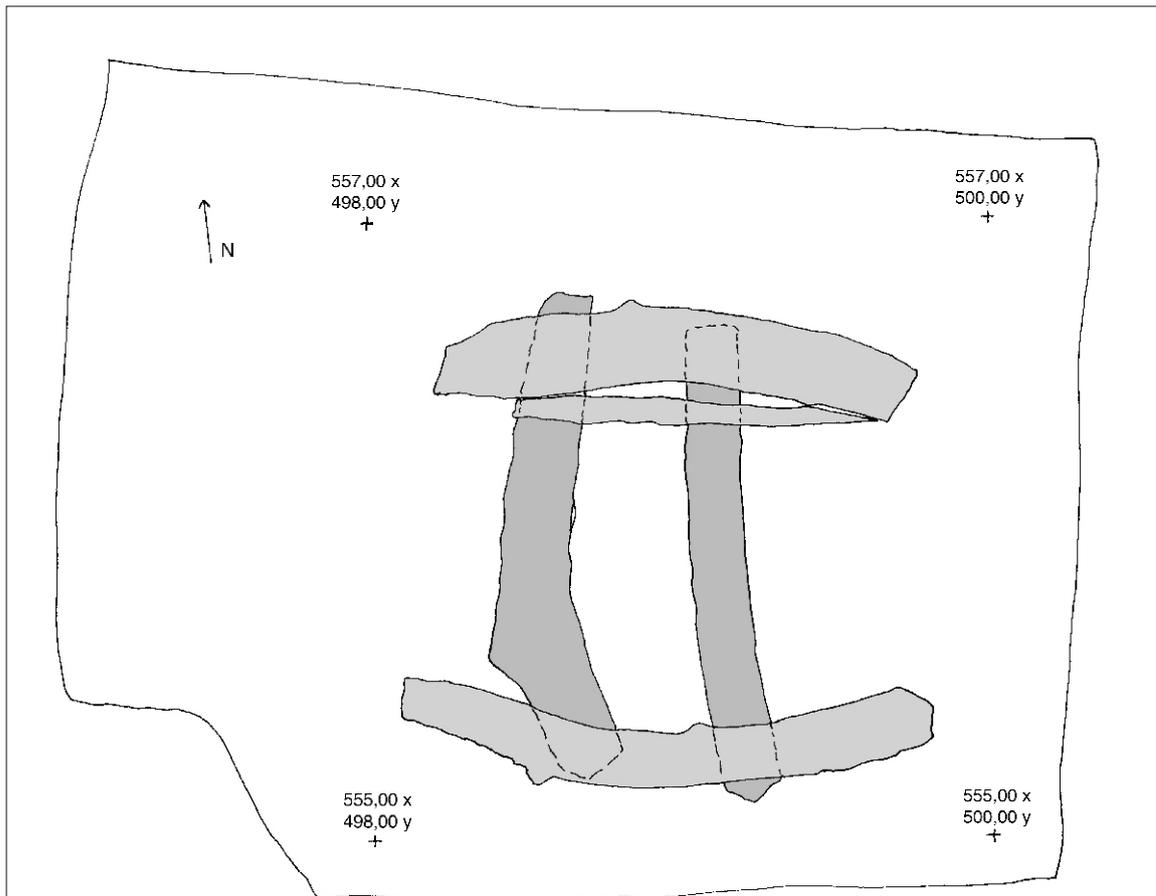
B 1 (Kat.Nr. 740), Profil A-B, M 1:25
 a: Terra Nigra Gef ; b: humoser Torf; c: oberes Rahmenwerk; d: unteres Rahmenwerk; e: Grubenverfüllung grauer Sand; f: Grubenverfüllung Torf; g: Grubenverfüllung grauer Sand; H: Stützpfosten (Eiche); i: Pfofengrube; 7: pleistozener Sand

Tafel 100

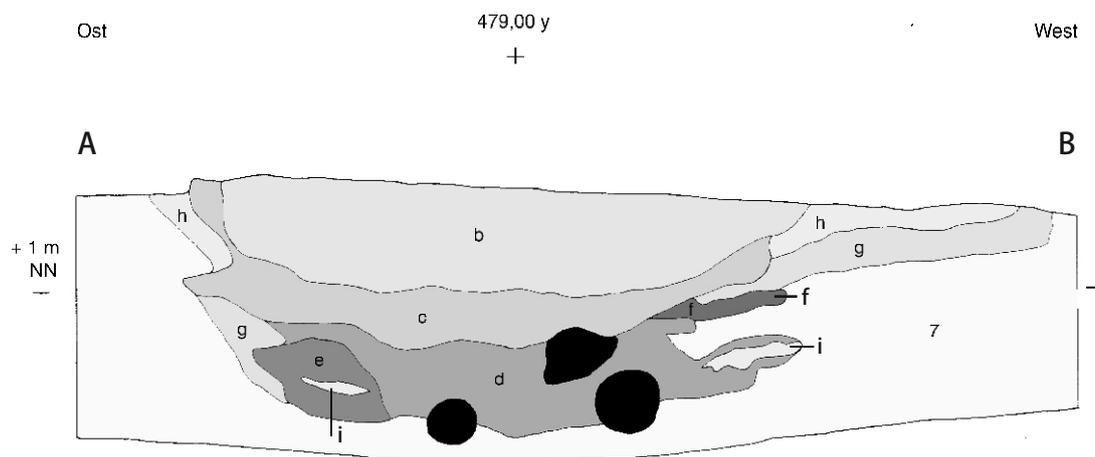


B 2 (Kat.Nr. 265), Profil A-B, M 1:40

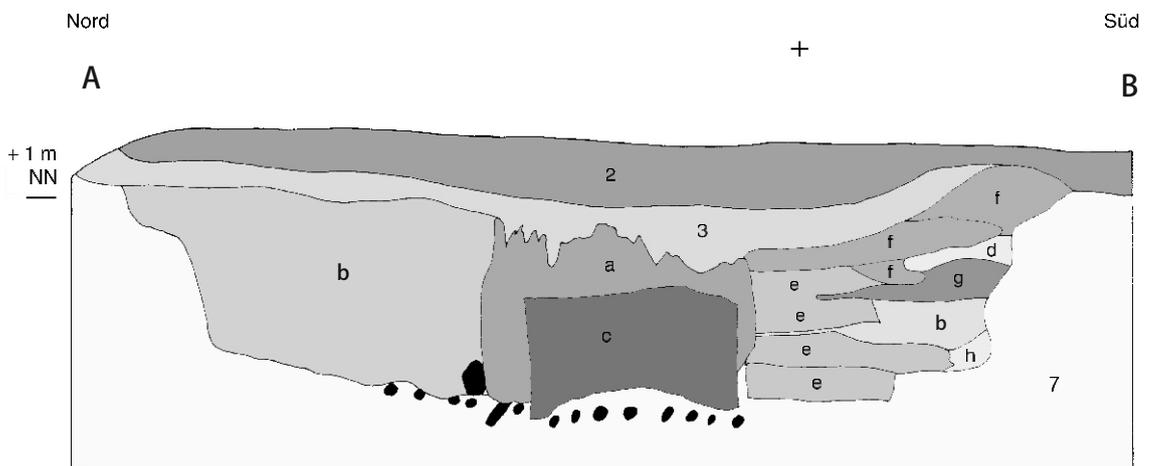
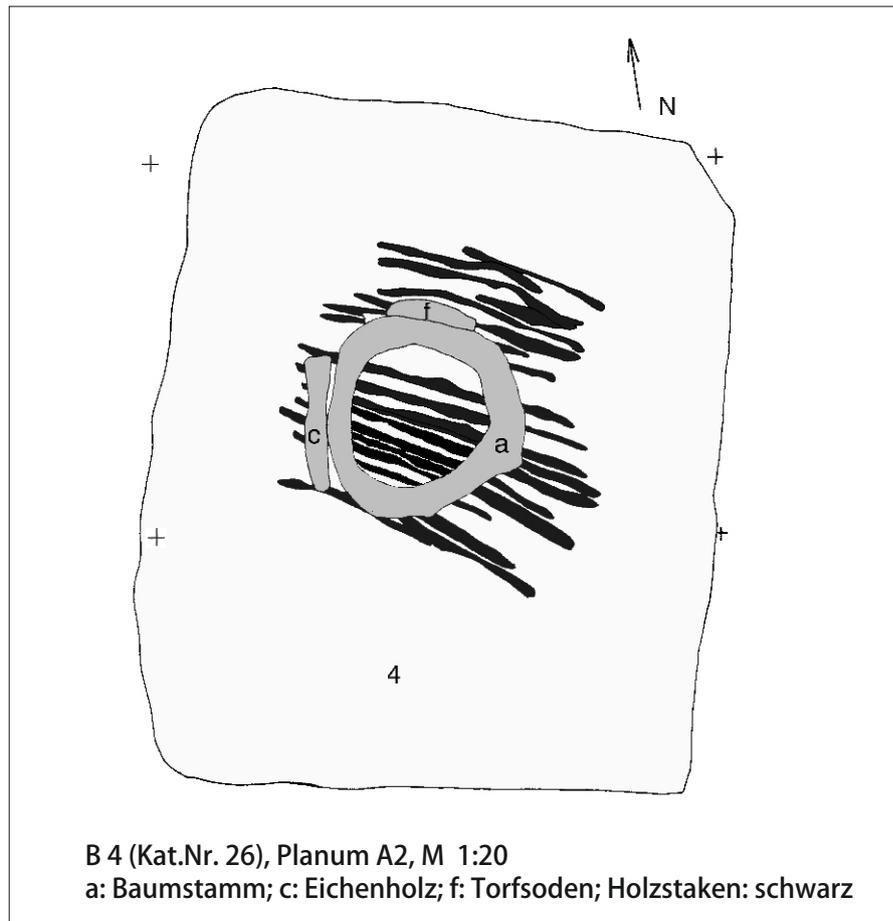
a: Birkenholzstarken; b: Holzrahmen; c: Brunnenfüllung, grau-brauner Klei-Sand;
 d: Grubenfüllung, hellgelb-wei geb nterter Sand; e: dunkelbrauner humoser Sand; f: toniger Sand, dunkelgrau mit HK; g: brauner Torf; h: humoser Torf;
 i: humoser Torf mit Sandb nderung; k: geb nterter Sand mit Torfresten;
 2: Füllung; 7: pleistozener Sand.



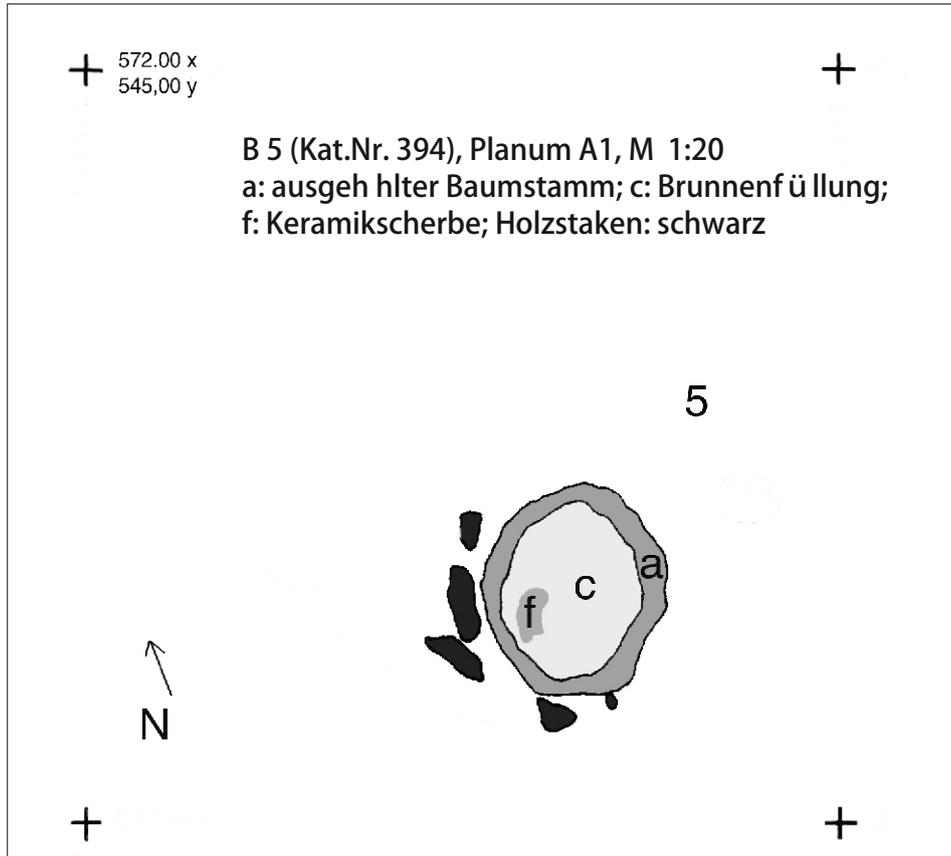
B 3 (Kat.Nr. 335), Planum A2, M 1:25
 oberer Holzrahmen hellgrau: unterer Holzrahmen:dunkelgrau



B 3 (Kat.Nr. 335), Profil A-B, M 1:25
 a: Holzstaken; b: Klei-Sand; c: hellgrauer toniger Sand mit HK und Klei durchsetzt;
 d: brauner toniger Torf mit hellgelben Sand u. Klei durchwirkt; e: Torfsoden; f: grauer Klei
 (Schicht 3) mit HK; g: Grubenversturzt, wei er Sand mit grauem Sand durchmengt;
 h: verrteter Kleisand (eventuell alter Laufhorizont); i: Sand aus 7a; schwarz: Eichenholz;
 7: pleistoz ner Sand.

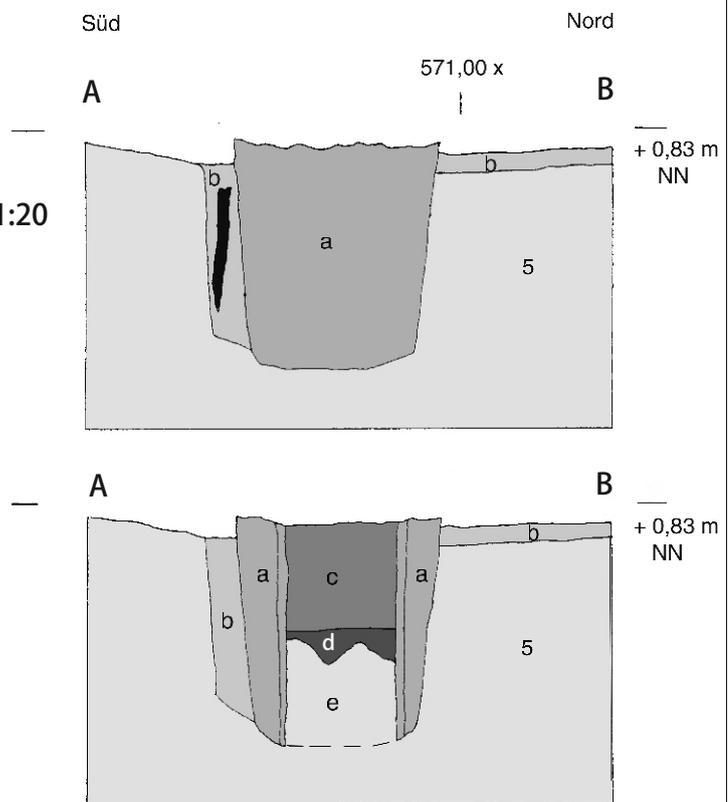


B 4 (Kat.Nr. 26), Profil A-B, M 1:25
 a: ausgehölter Baumstamm; b: humoser Kleisand; c: Eichenholz; d: hellbrauner u. weißer Sand gemischt mit dunkelbraunem Humus; e: Torfsoden; f: Klei-Sand-Torf-Gemisch; g: dunkelbrauner sandiger Humus; h: Torf mit geringem Sandanteil; 2: sandiger Klei; 3: toniger Klei; 7: pleistozener Sand; Holzstaken: schwarz



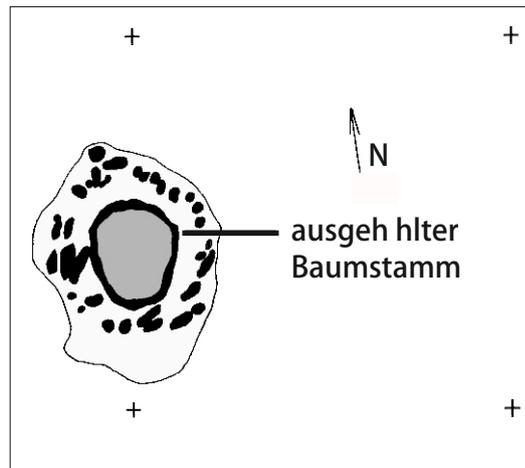
B 5 (Kat.Nr. 394), Profil A-B, M 1:20

- a: ausgehelter Baumstamm
- b: grauer und gelber Sand, Grubenverfüllung, z.T. gemischt
- c: toniger Torf, obere Schachtverfüllung
- d: hellgelber Sand, Verfüllschicht
- e: gelber Sand, Füllschicht
- 5: Torf



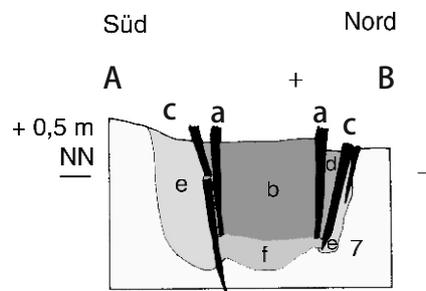
B 6 (Kat.Nr. 650), Planum A1,
M 1:40

Grubenverfüllung: hellgrau;
Holzstakensetzung: schwarz



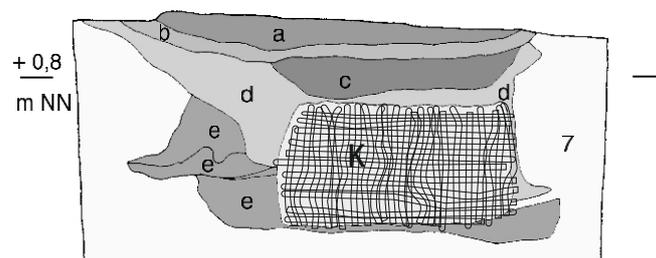
B 6 (Kat.Nr. 650), Profil A-B,
M 1:40

- a: Baumstammbrunnen
- b: Verfüllung torfig-humos
- c: Stakensetzung
- d: tonig-humoser Torf
- e: Torf
- f: Brunnensohle
- 7: pleistozener Sand



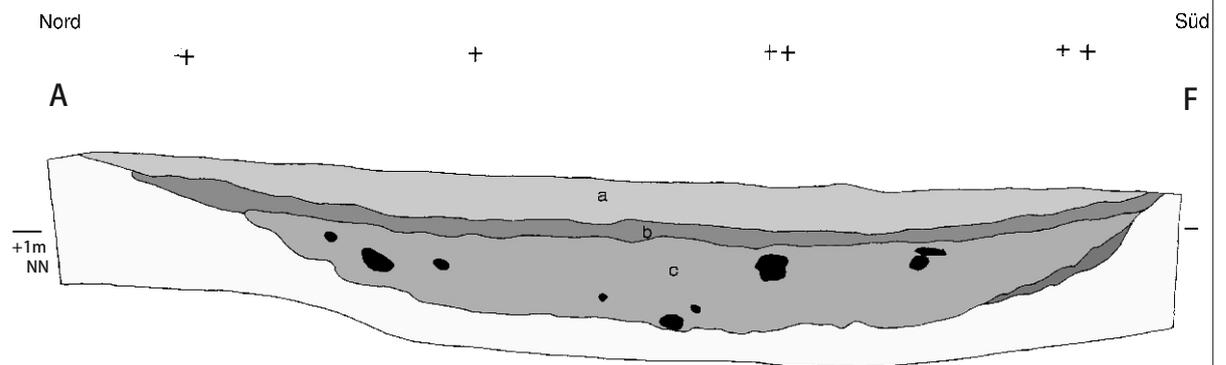
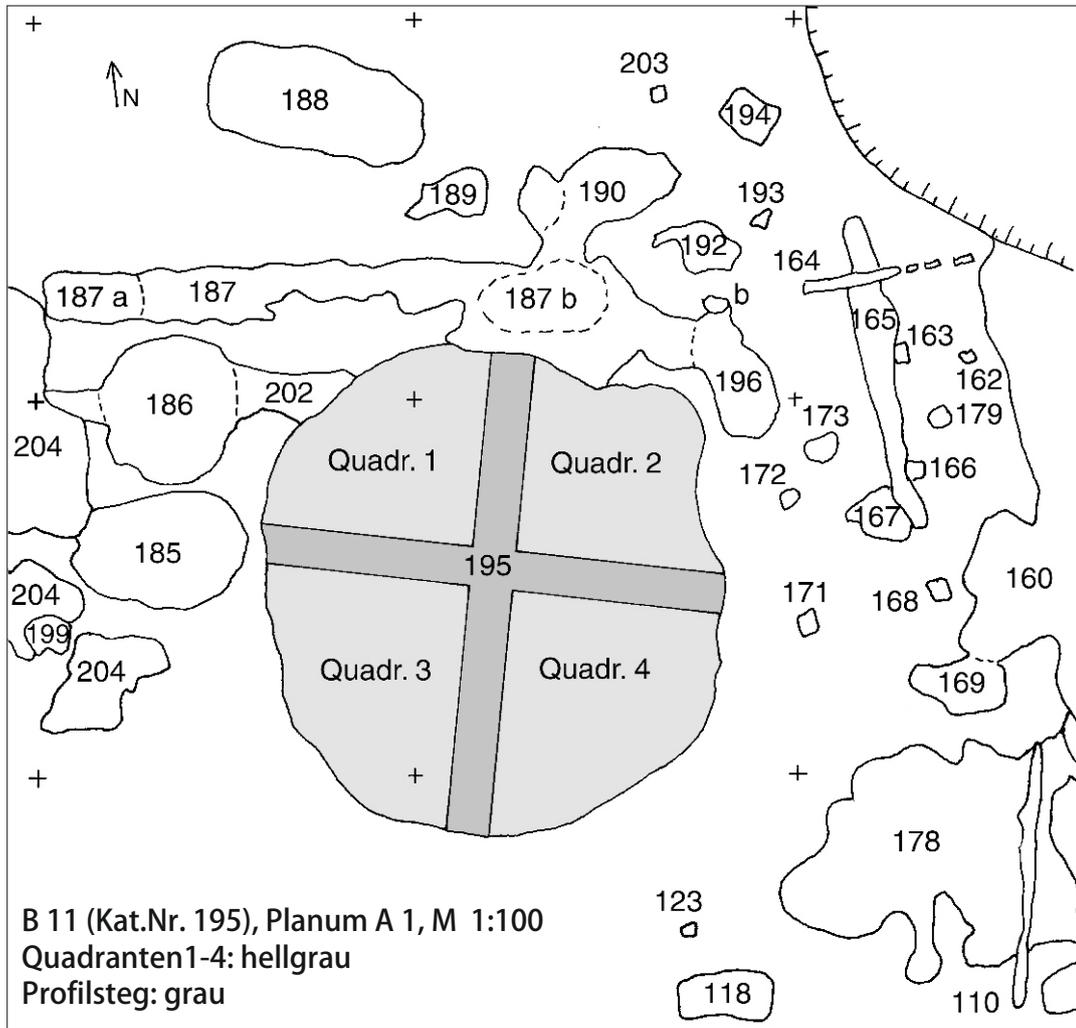
Ost + West

A B

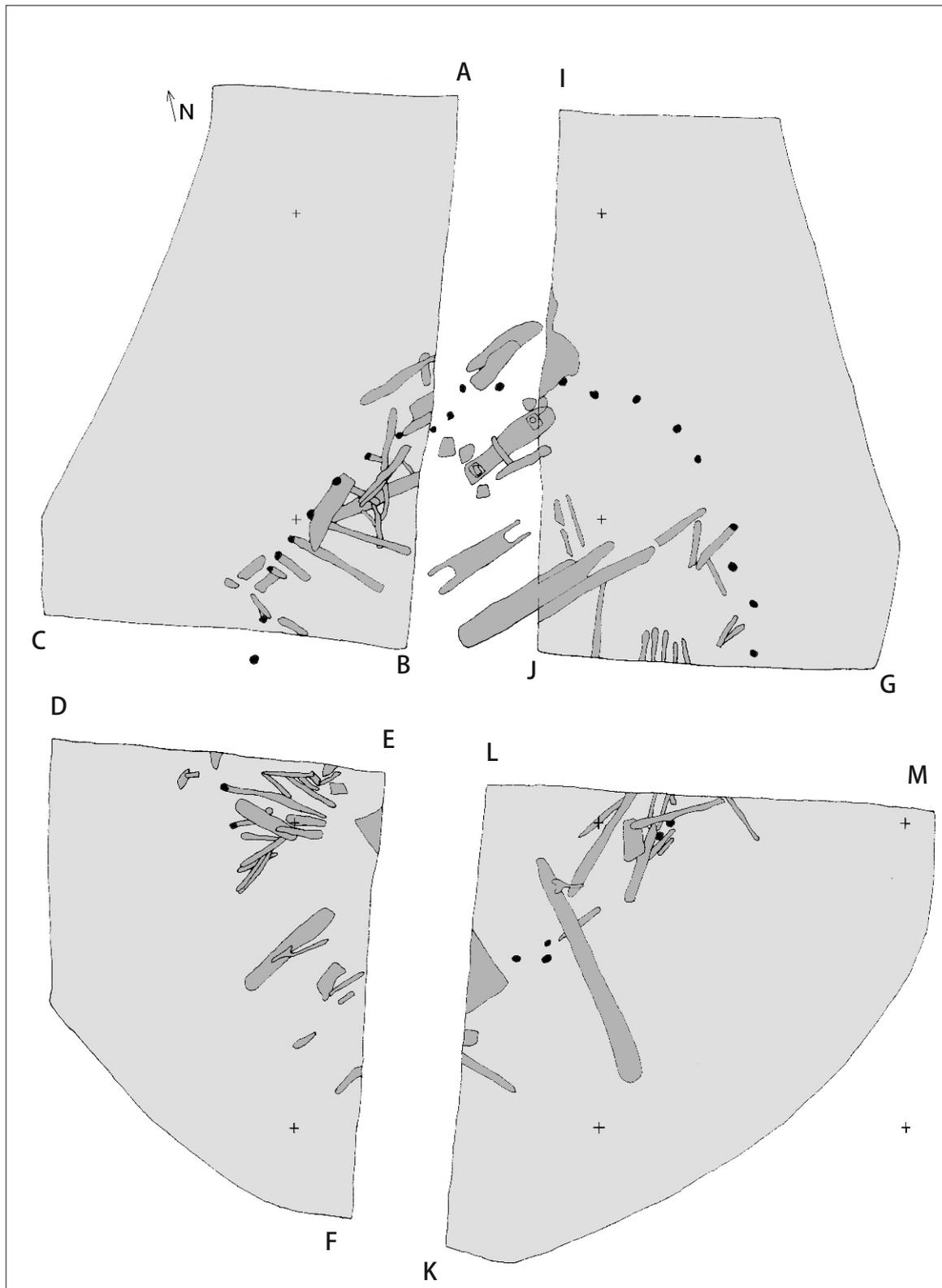


B 9 (Kat.Nr. 409), Profil A-B, M 1:40

a: Klei-Sand; b: toniger Sand; c: Moor; d: Grubenverfüllung aus Klei, Torf u. Sand;
e: Grubenversturzung; K: Korbgeflecht 1,10x0,68 m, H he 60 cm; 7: pleistozener Sand.

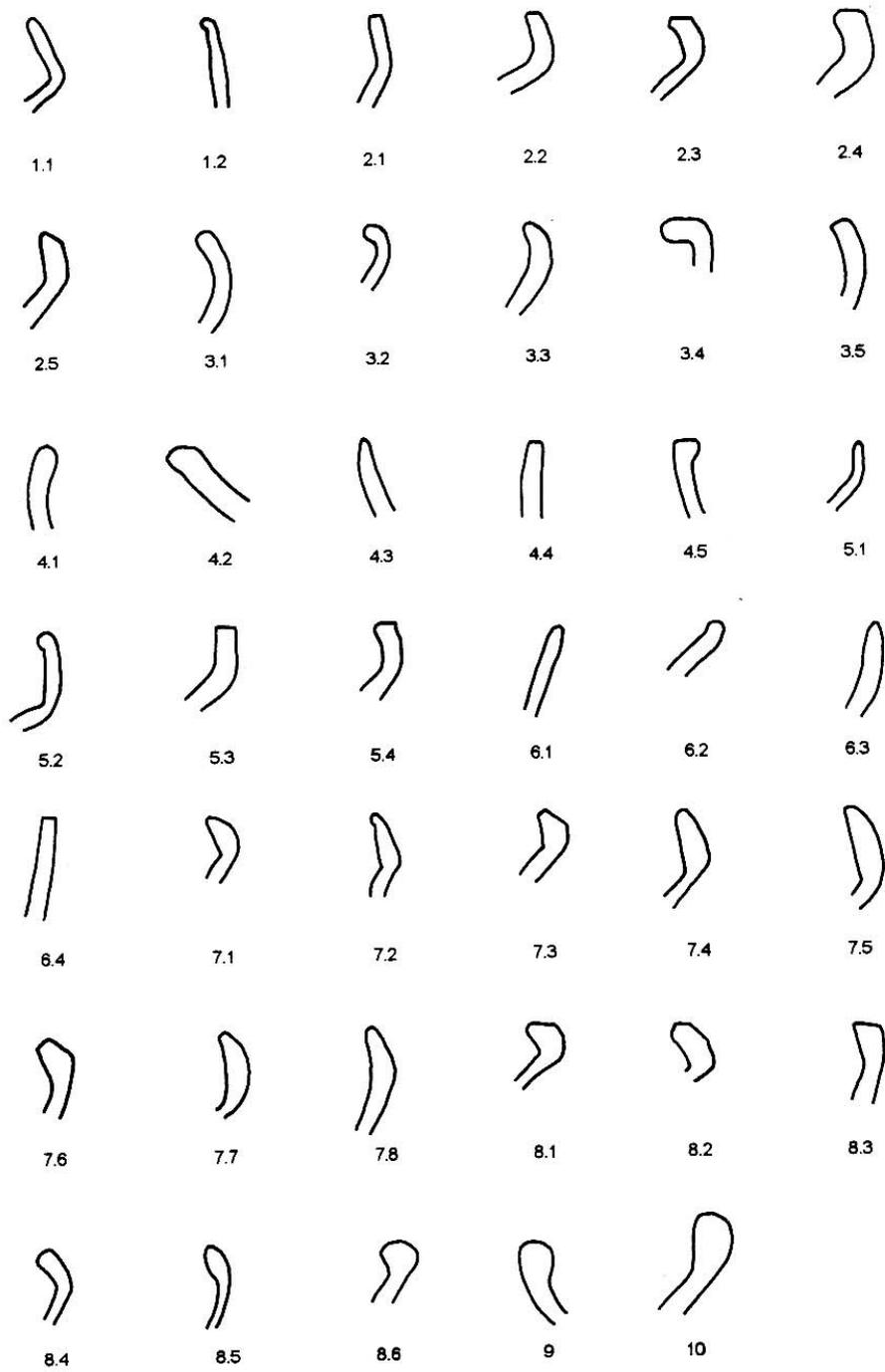


B 11 (Kat.Nr. 195), Profil A-F, M 1:50
 a: Klei-Sand; b: tonige Sandschicht; c: humos-anmoorige Verfüllung;
 Holzstaren: schwarz: 7: pleistozner Sand



B 11 (Kat.Nr. 195), Planum A 2, M 1:40
 Holzstarken horizontal liegend: dunkelgrau; Holzstarken vertikal stehend: schwarz;
 hellgrau: Quadranten 1-4

Tafel 108



Randformen

(Quelle: LEHMANN 2002, Taf. 119)

Tafel 109

Gliederungsschema der Randformen: paralleelseitige Ränder:

Ausrichtung	Grundform	Lippe	besondere Merkmale des Randes	Form	
ausgewendet	gerade	rund		1.1	
			Lippe ausgebogen	1.2	
		abgestrichen		rechtwinklig zum Rand abgestrichen	2.1
				waagrecht abgestrichen	2.2
				waagrecht abgestrichen; Lippe nach außen verdickt	2.3
				waagrecht abgestrichen; gedrunken	2.4
			einfallend abgestrichen	2.5	
	konkav	rund		Rand weit ausgebogen	3.1
				Rand eng ausgebogen	3.2
		spitz		3.3	
		rund	Rand waagrecht umgelegt	3.4	
		abgestrichen		3.5	
	konvex	rund			4.1
				Lippe ausgezogen	4.2
		spitz		4.3	
abgestrichen			4.4		
		Lippe nach innen verdickt	4.5		
senkrecht	gerade	rund		5.1	
				Lippe leistenartig nach außen verdickt	5.2
		abgestrichen		5.3	
				Rand nach außen verkröpft	5.4
eingewendet	gerade	rund		6.1	
				Lippe senkrecht ausgezogen	6.2
	konkav	-		6.3	
		abgestrichen		6.4	

Dreieckig verdickte Randformen:

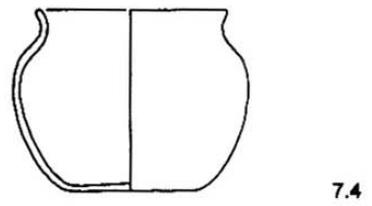
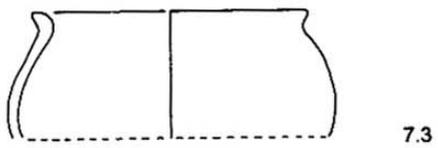
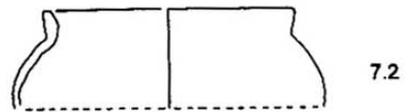
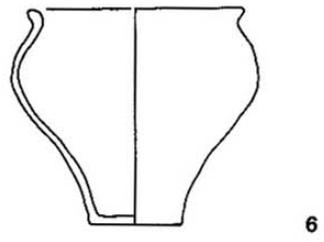
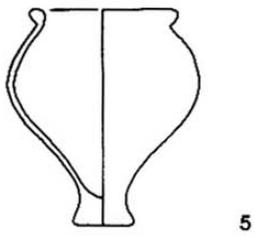
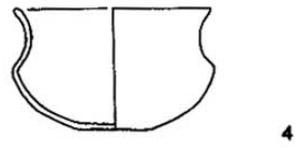
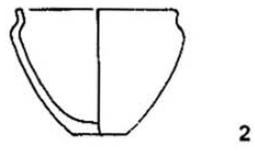
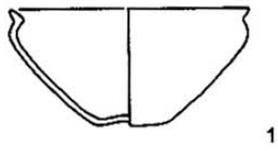
ausgewendet	gerade	spitz	Rand dreieckig	7.1
			Rand dreieckig; Lippe leistenartig verdickt	7.2
		abgestrichen	Rand dreieckig	7.3
			Rand lang dreieckig, basal verdickt	7.4
			Rand lang dreieckig, mittig verdickt	7.5
	konkav	abgestrichen	Rand dreieckig; Lippe dachförmig	7.6
			Rand lang dreieckig	7.7
		spitz	Rand lang dreieckig	7.8

Einfach (nicht dreieckig) verdickte Randformen:

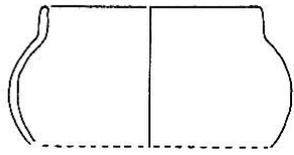
ausgewendet	gerade	abgestrichen	Rand paralleelseitig; waagrecht abgestrichen	8.1
			Rand mehrfach abgestrichen (verdickt facettiert)	8.2
			Rand umgekehrt trapezförmig	8.3
		rund	Rand keulenförmig	8.4
	konkav	rund	Rand keulenförmig	8.5
	-	rund	Rand kugelig	8.6
	konvex	rund	Rand nach innen verdickt	9
senkrecht	-	rund	Rand mittig verdickt	10

Tabelle der Randformen
(Quelle: LEHMANN 2002, 31)

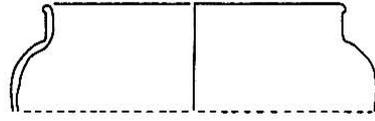
Tafel 110



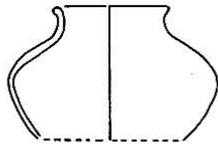
Tafel 111



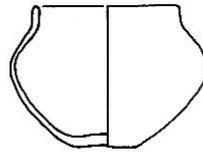
7.5



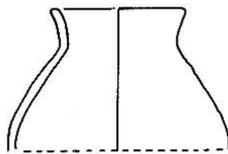
7.6



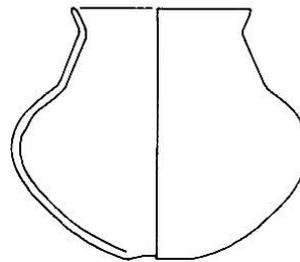
7.7



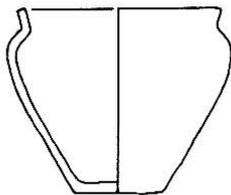
7.8



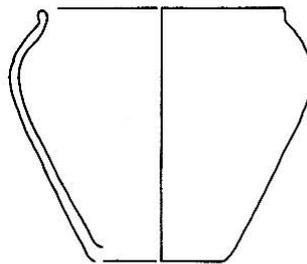
7.9



7.10



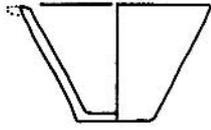
8.1



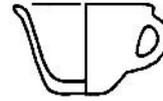
8.2

Typentafel der Gefäßformen
(Quelle: LEHMANN 2002, Tafel 121)

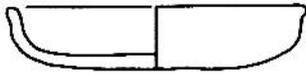
Tafel 112



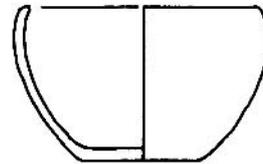
9



10



11



12



13

Sonderform



14

Typentafel der Gefäßformen

(Quelle: LEHMANN 2002, Tafel 122, GF 9-13;

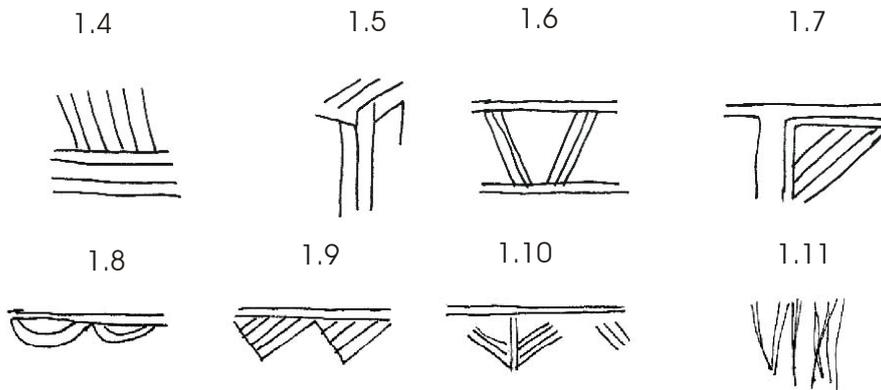
GF 14 Sonderform Nortmoorer Hammrich)

Tafel 113

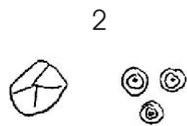
Rillen- und Ritzverzierungen (VF 1)



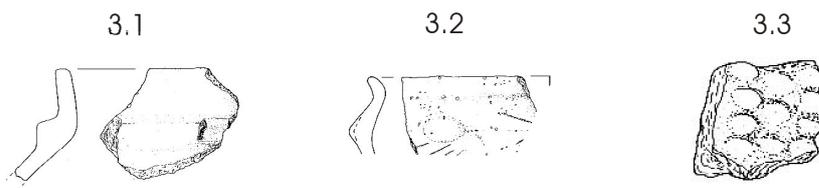
Geometrische Muster (VF 1.4-1.11)



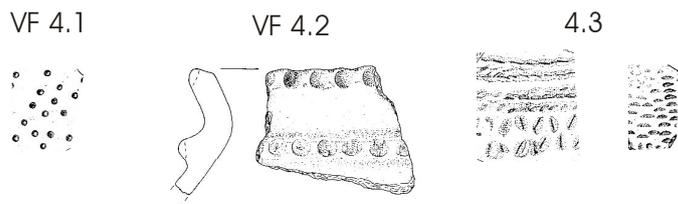
Bodenmuster / Stempel (VF 2)



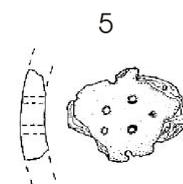
Plastischer Dekor (VF 3)



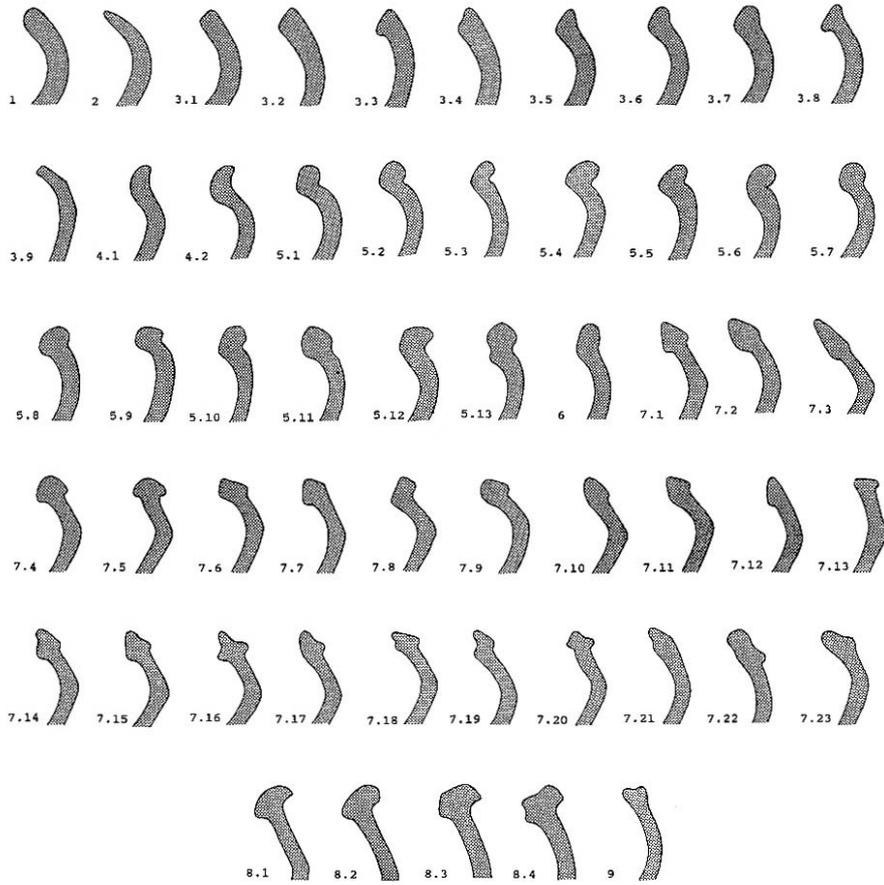
Eindrücke / Einstiche (VF 4)



Duchlochungen

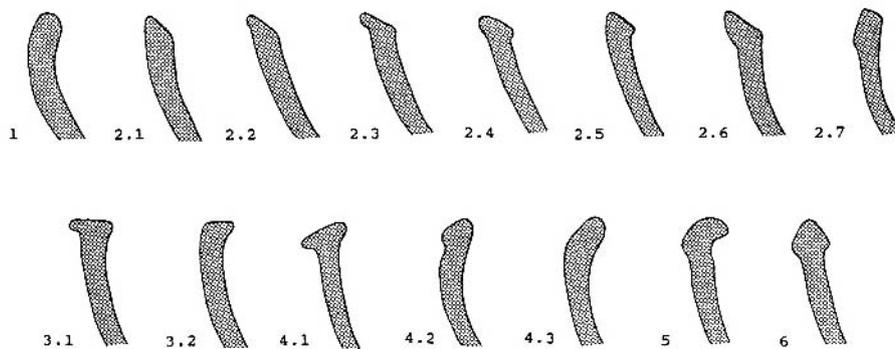


Tafel 114



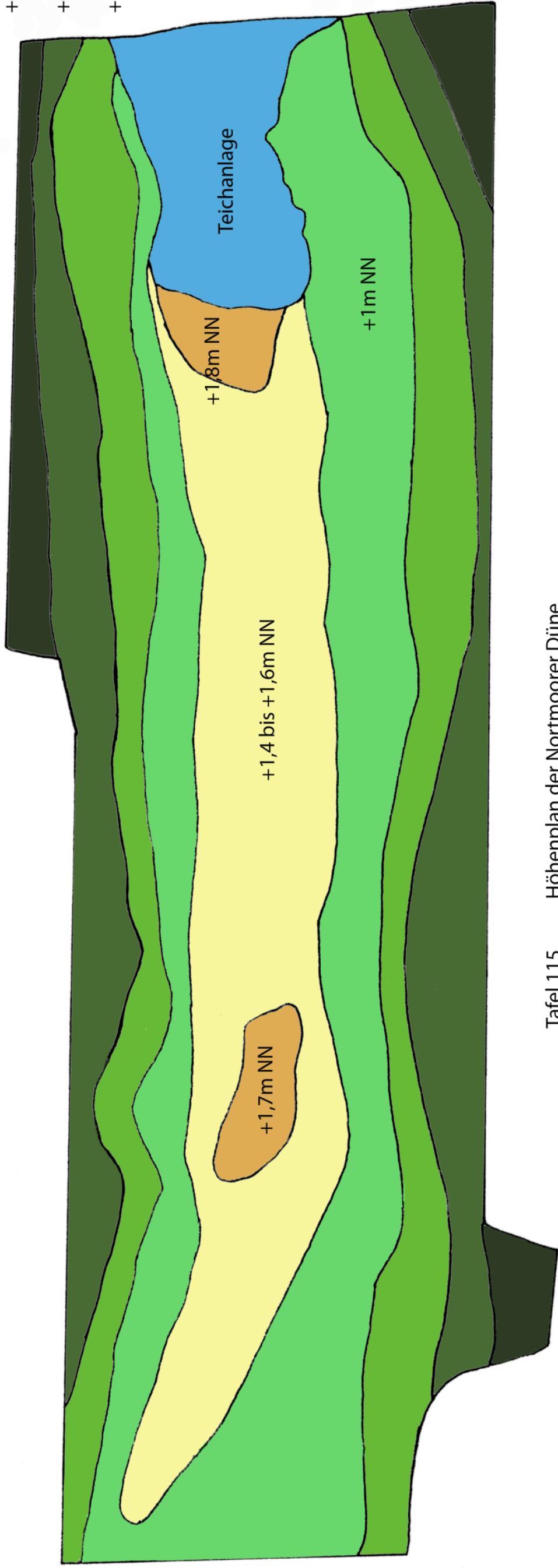
Randformen mittelalterlicher Keramik: Kugeltöpfe

(Quelle: STILKE 1995, 60-61)



Randformen mittelalterlicher Keramik: Schalen

(Quelle: STILKE 1995, 65)



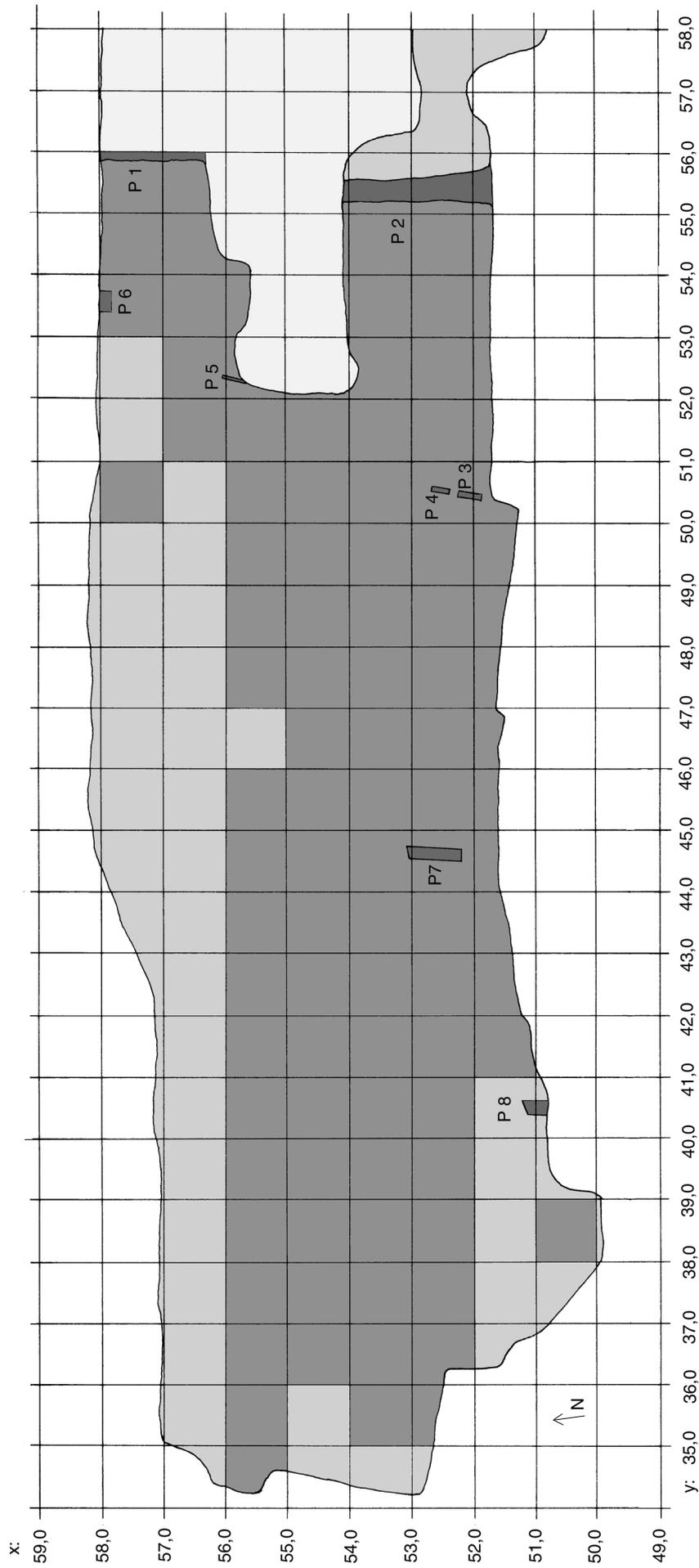
+0,3m NN

+0,5m NN

+0,7m NN

Tafel 115 Höhenplan der Nortmoorer Düne

Tafel 116
Quadrantenplan Grabung Nortmoorer Mammrich

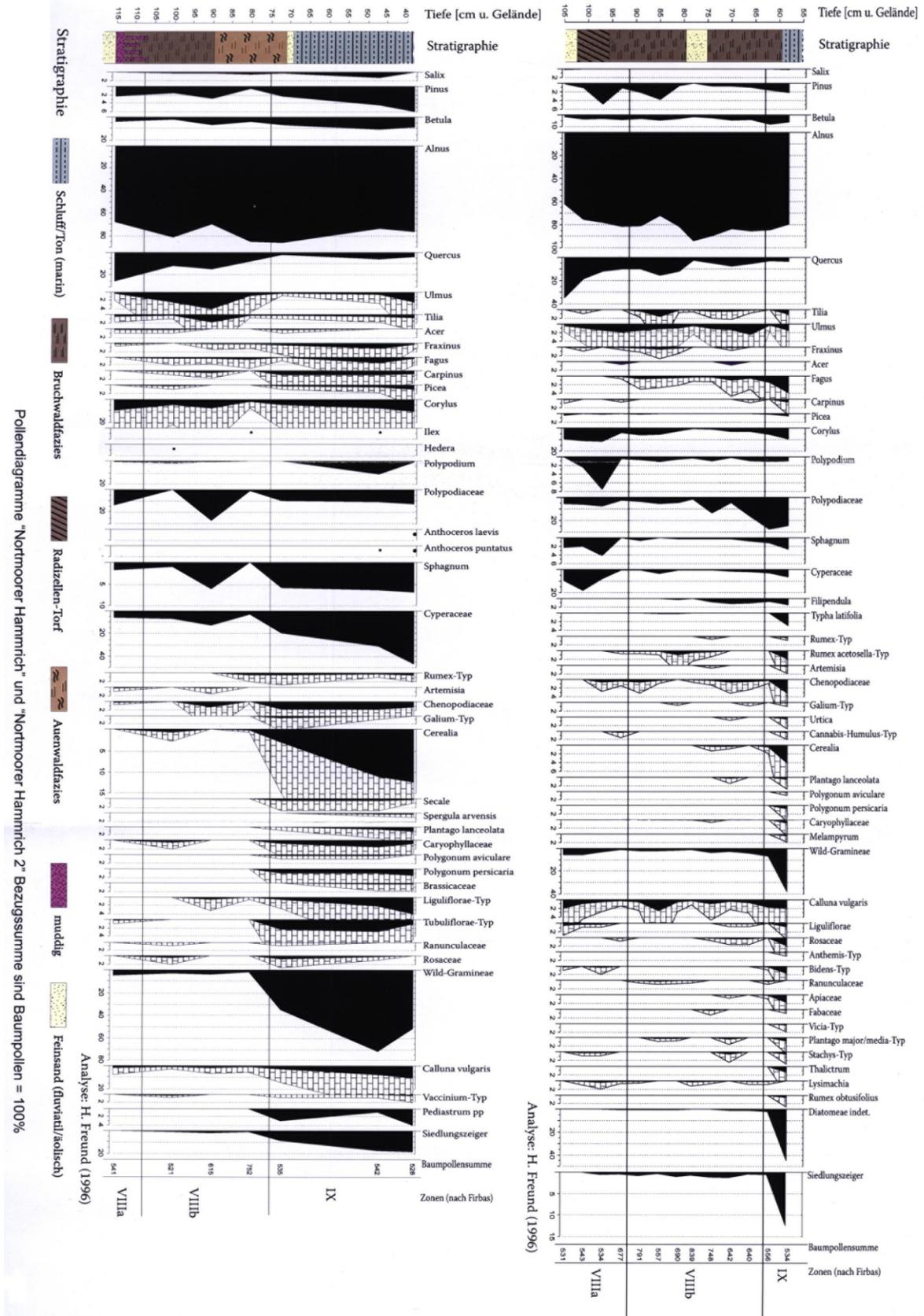


Plan I: Nortmoorer Hammrich (2711/8:2)
Übersichtsplan der Quadranten und Lage der Profilwände P 1 - P 8.
Dokumentierte Quadranten (dunkelgrau), gestörte Quadranten (hellgrau).

Tafel 117

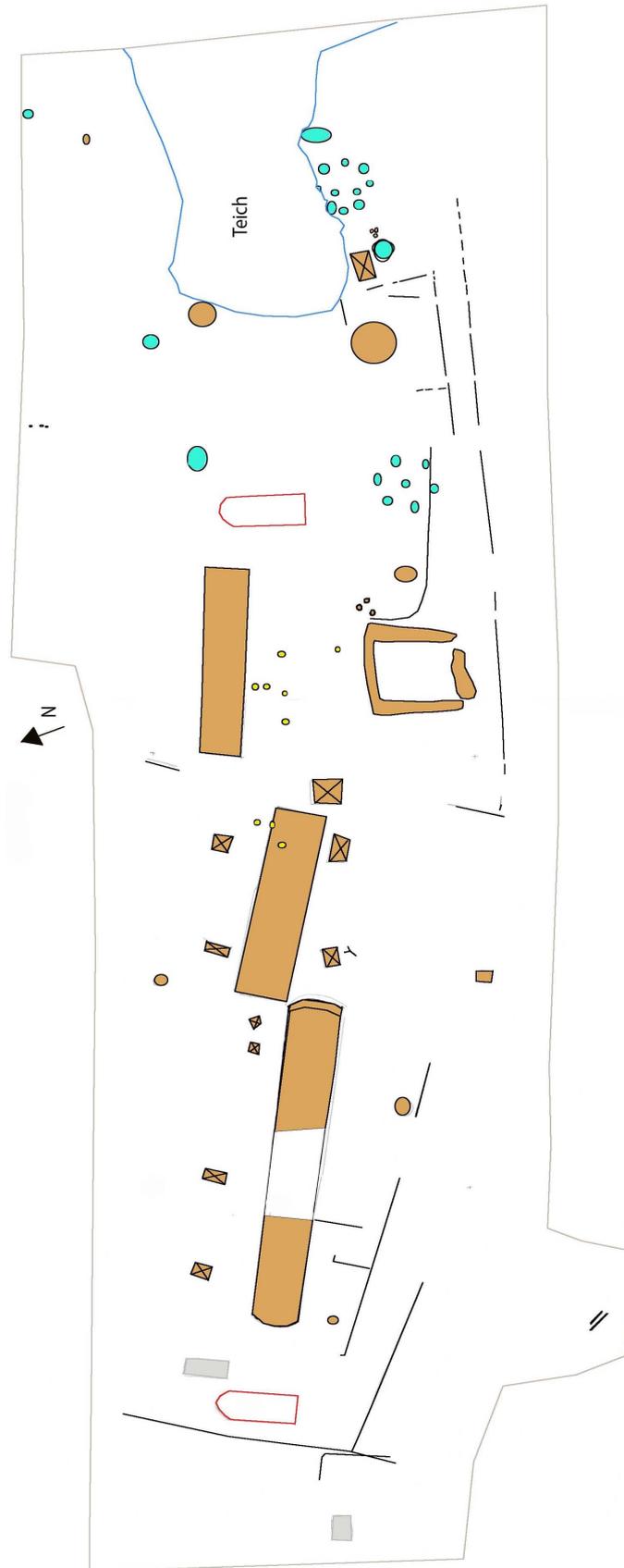


Der rote Pfeil markiert die Ausgrabungsstätte auf der Nortmoorer Düne



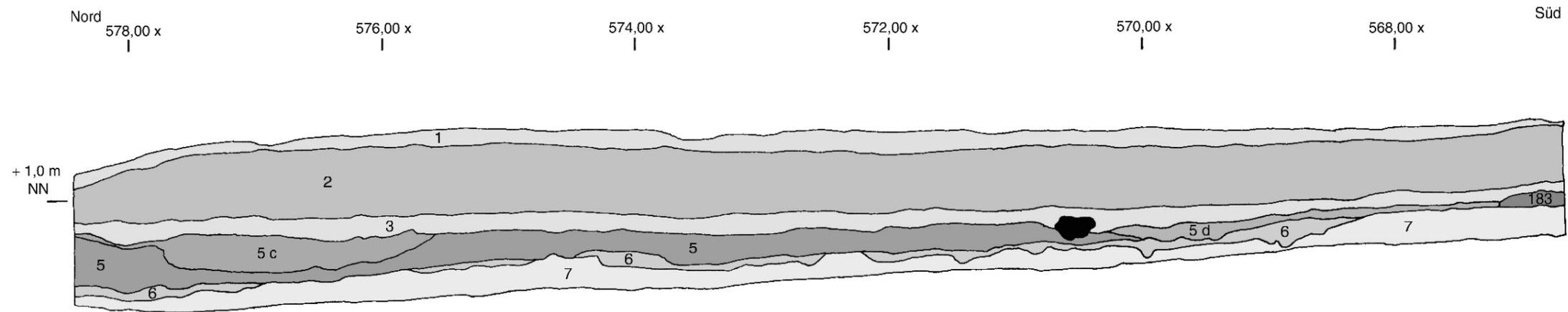
Pollenprofil vom Nortmoorer Hammrich
(Freund 1996 a)

Tafel 119

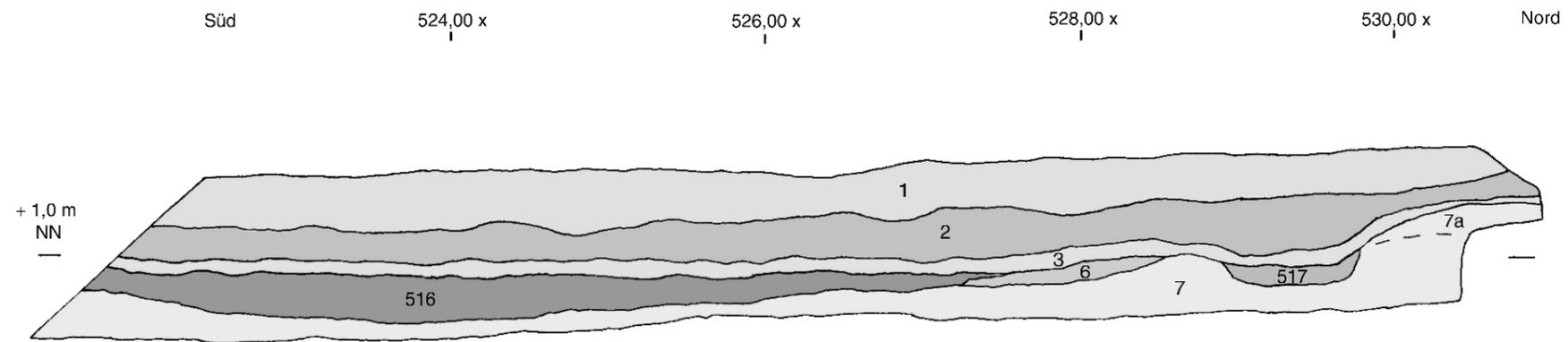


Legende: rot= Bz/Ez; braun= rkz; türkis= ma; gelb=Gräber;
rechteckige Strukturen=Gebäude; x=Speicher; o=Brunnen; -- =Zäune

Tafel 120



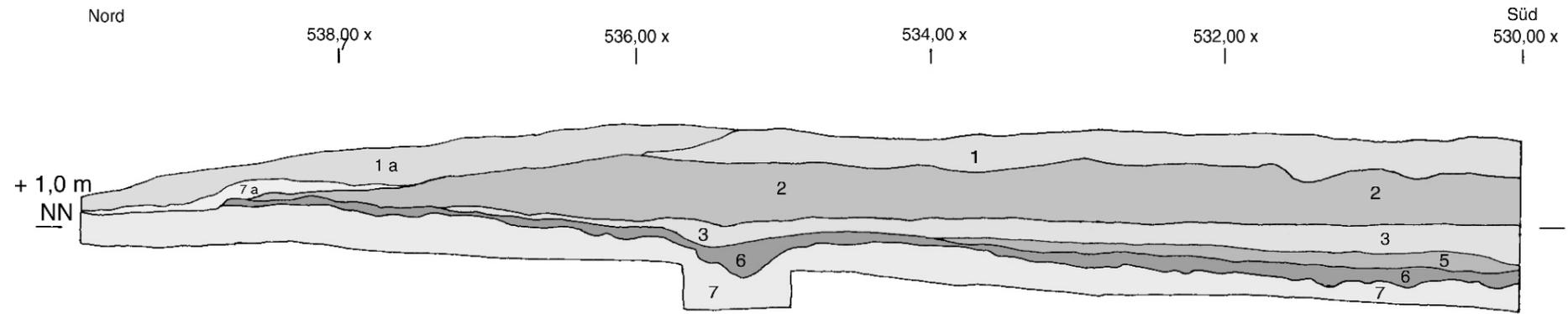
Profilwand P 1, Schnitt A1, M 1:40
Nortmoorer Hammrich (2711/8:2)



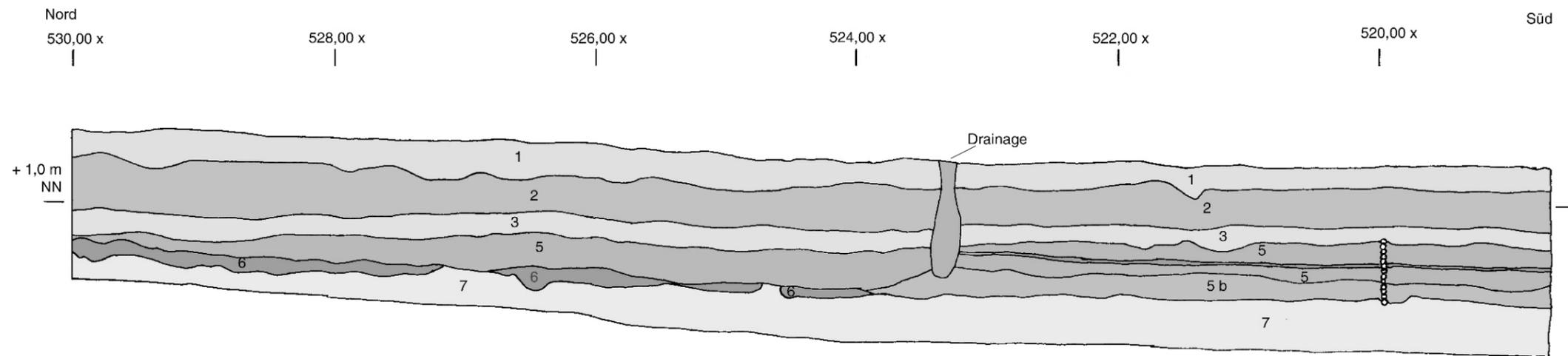
Profilwand P 7; Schnitt A, M 1:40
Nortmoorer Hammrich (2711/8:2)

Kartenlegende siehe Katalog (Kap. 10.1.3)

Tafel 121

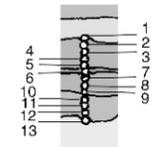


Profilwand P 2, Schnitt A, M 1:40
Nortmoorer Hammrich (2711/8:2)



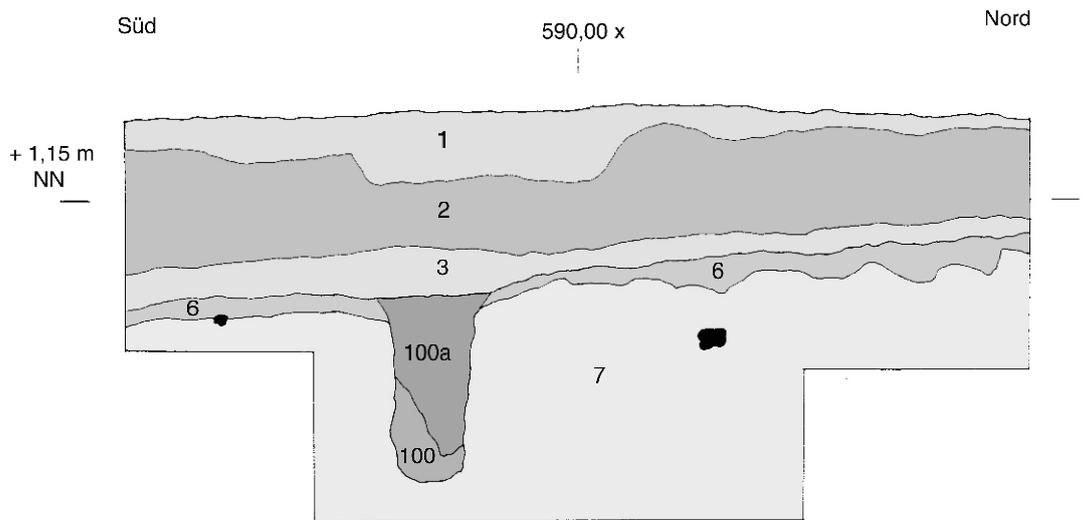
Profilwand P 2, Schnitt A, Südteil, M 1:40
Nortmoorer Hammrich (2711/8:2)

Pollenprofil A

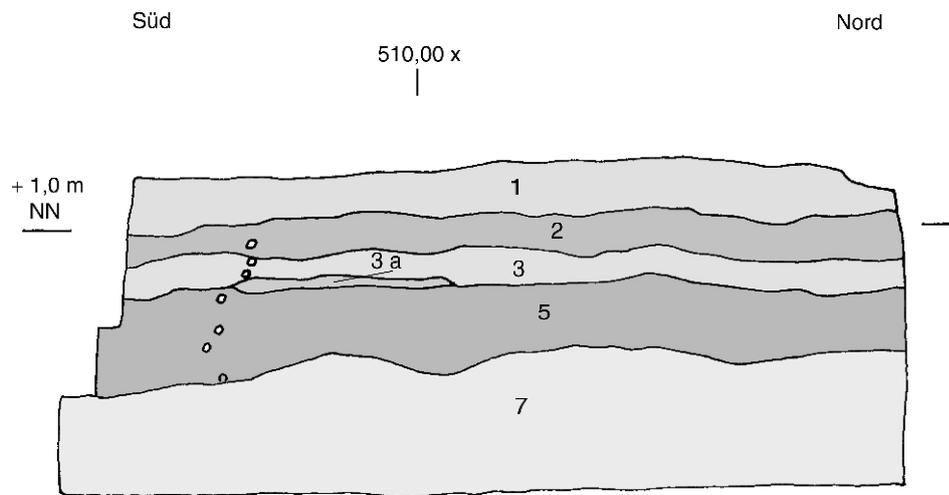


Kartenlegende siehe Katalog (Kap. 10.1.3)

Tafel 122

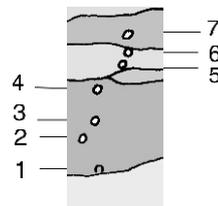


Profilwand P3, , Schnitt A 1, M 1:40.
Nortmoorer Hammrich (2711/8:2).

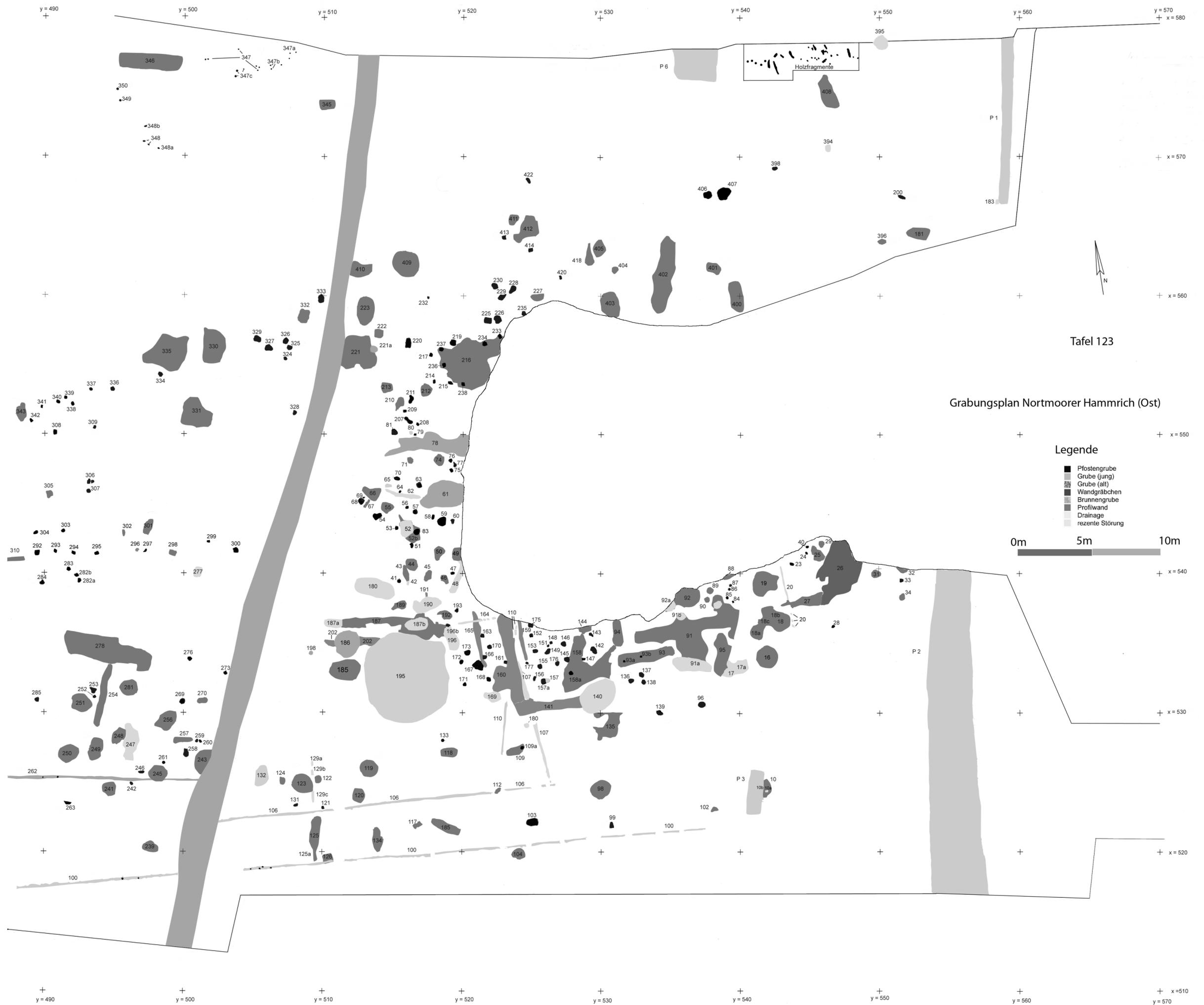


Profilwand P 8, Schnitt A, M 1:40
Nortmoorer Hammrich (2711/8:2)

Pollenprofil B



Kartenlegende siehe Katalog (Kap. 10.1.3)



Tafel 123

Grabungsplan Nortmoorer Hammrich (Ost)

Legende

- Pfostengrube
- Grube (jung)
- Grube (alt)
- Wandgräbchen
- Brunnengrube
- Profilwand
- Drainage
- rezente Störung

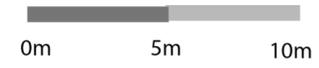
0m 5m 10m

x=510
y=570

Grabungsplan Nortmoorer Hammrich (Mitte)

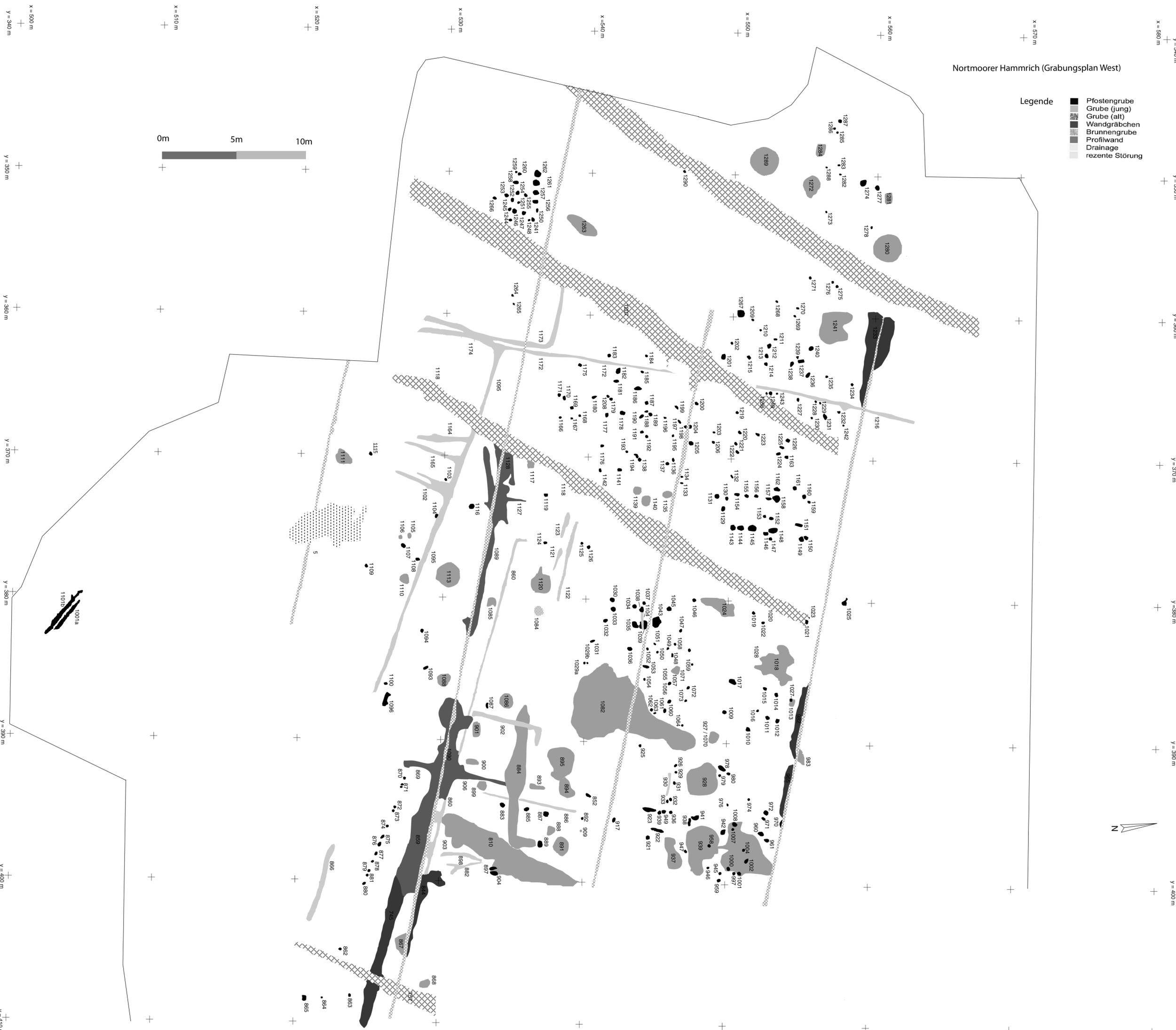
Legende

- Pfostengrube
- Grube (jung)
- Grube (alt)
- Wandgräbchen
- Brunnengrube
- Profilwand
- Drainage
- rezente Störung



Nortmoorer Hammrich (Grabungsplan West)

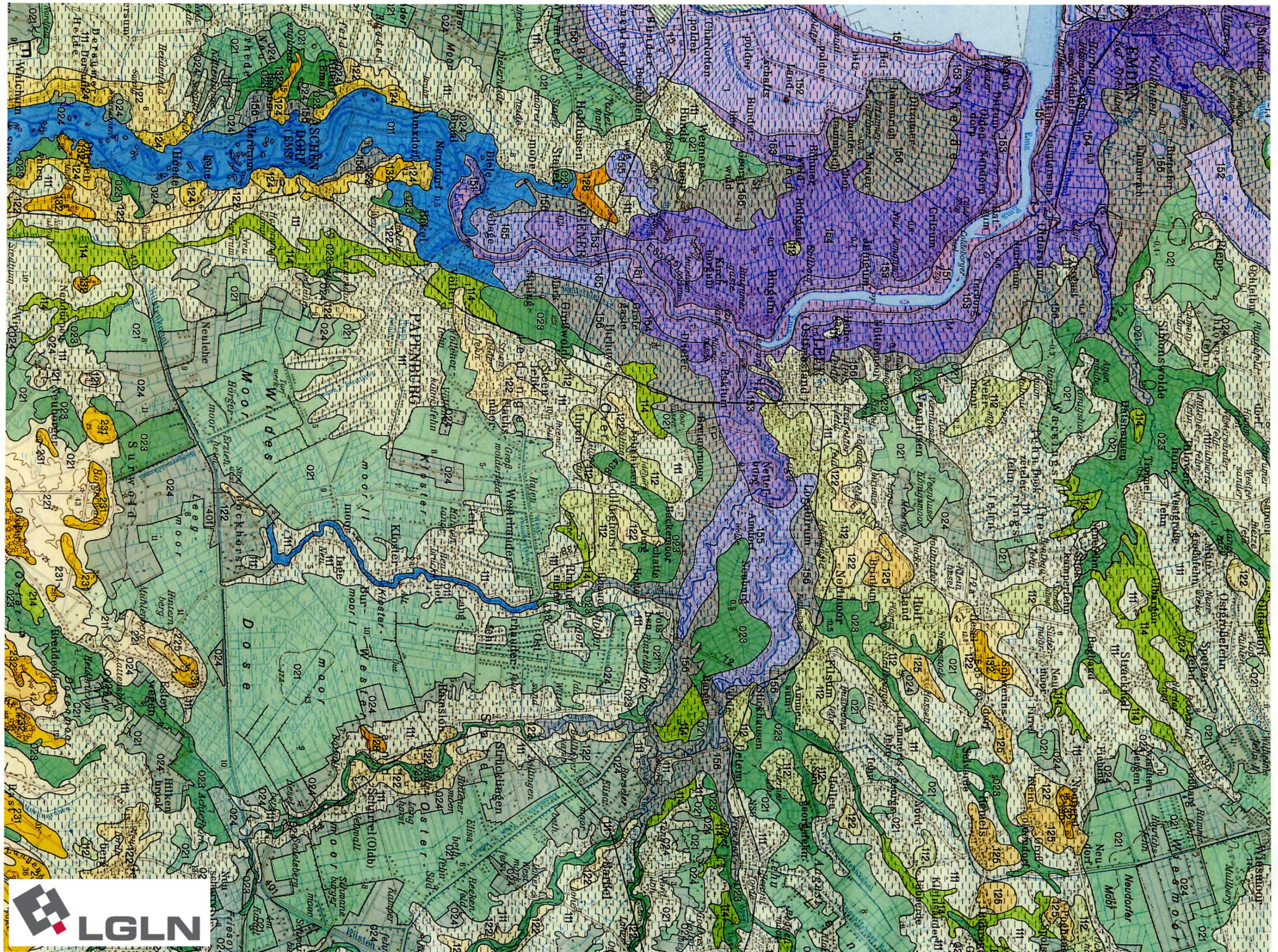
- Legende
-  Pfostengrube
 -  Grube (jung)
 -  Grube (alt)
 -  Wandgräbchen
 -  Brunnengrube
 -  Profilwand
 -  Drainage
 -  rezente Störung





Legende:

- Pfostengrube
- Grube (jung)
- Grube (alt)
- Wandgräbchen
- Brunnengrube
- Profilwand
- Drainage
- rezente Störung



1. Standortkennzeichnung

Standortbeschreibung		Vergesellschaftung der Bodentypen	Ausgangsmaterial der Bodenbildung	
Maritime Flachlandregion				
<p>Klima: mittelfeucht: Jahresniederschläge mittel bis hoch (650–800 mm), rel. Luftfeuchte hoch (Jahresdurchschnitt 83%), Lufttemperatur mittel bis hoch (Jahresdurchschnitt 8,5 °C), Jahrestemperaturschwankungen gering (15,8°C), starke Winde, zum Binnenland abnehmend; Klimatische Wasserbilanz mit hohem Wasserüberschuß (300–400 mm/Jahr) bei geringem bis sehr geringem Defizit im Sommerhalbjahr (<50 mm); Vegetationszeit lang (≅ 225 Tage/Jahr).</p> <p>Relief: im Küstenbereich und im Mündungsgebiet der Flüsse eben und niedriger als 2 m über NN, sonst eben bis flachwellig und bis etwa 20 m über NN ansteigend.</p> <p>Böden: im Marschengebiet bedeckte Schluff- und Tonböden mit Grundwasser- und Staunässeinfluß, sonst vorwiegend Sandböden in grundwassererferner Lage, bei lehmigem und tonigem Untergrund mit Staunässe.</p> <p>Landschaft: einformige Marsch- und Geestlandschaft mit überwiegender Grünlandnutzung und zahlreichen Entwässerungsgräben, wenig Wald.</p>				
Nordseeinseln	141	Trockene und feuchte, z.T. grund- oder meerwasserbeeinflusste, wellig- hügelige und ebene Sandböden	Ranker und Gleye	Marine Sande und Dünen sande
	142	Feuchte bis nasse, meerwasserbeeinflusste, lehmige Schluff- und Tonböden mit Salzwasser im Untergrund	Seemarschen	Marine Sedimente
Marschen	151	Feuchte und nasse, meist salzhaltige, häufig überflutete, tonige Schluff- und schluffige Tonböden im Außendeichsland	Unreife See-, Brack- und Flußmarschen	Sedimente im Außendeichsland
	152	Feuchte, meist gut wasserdurchlässige, grundwasserbeeinflusste, fruchtbare, tonige Schluff- und schluffige Tonböden, verbreitet mit Salzwasser im Untergrund	Seemarschen	Brackisch- marine Sedimente
	153	Feuchte, grundwasserbeeinflusste, staunasse, schluffige Tonböden	Übergangs- und Kalk-Brackmarschen	Brackische Sedimente
	154	Feuchte bis nasse, stark staunasse, schluffige Tonböden mit geringer Gefügestabilität	Knickige und Knick- Brackmarschen	Mittelbrackische Sedimente
	155	Feuchte, stellenweise nasse, grundwasserbeeinflusste, verbreitet schwach staunasse, schluffige Tonböden	Flußmarschen	Fluviatile Sedimente im Tidebereich (perimarine Ablagerungen)
	156	Nasse, z. T. extrem saure, gut wasserdurchlässige Tonböden und Moorböden mit tonigem Oberboden	Organomarschen und Moormarschen	Sedimente, reich an organischer Substanz, und Hoch- und Niedermoor torfe mit Kleidecke
Spüfläichen für Hafen- und Industrieanlagen	157	Feuchte, aufgespülte Sand-, Lehm- und Tonböden	Künstliche Aufspülung	Spülgut
Grundwasserernahe, ebene Geest	111	Frische, stellenweise mäßig trockene, grundwasserbeeinflusste Sandböden	Gley-Podssole, in höheren Lagen Podssole und Plaggengesche, in tieferen Lagen Gleye	Fluviatiler Sand, z.T. Flugsand
	112	Frische bis feuchte, stellenweise mäßig trockene, grundwasserbeeinflusste, meist staunasse, lehmige Sandböden, verbreitet mit Lehm und Ton im Unterboden	Pseudogley-Podssole, in höheren Lagen Podssole und Plaggengesche, in tieferen Lagen Gleye und Pseudogleye	Fluviatiler und glazifluviatiler Sand, örtl. Geschiebedecksand, meist über Geschiebelehm oder Beckenton
	113	Feuchte, grundwasserbeeinflusste, schluffige Sand- und Lehm böden mit Sand im Unterboden und Untergrund	Gley-Braunerden und Gleye	Kleidecke über fluviatiliem Sand
	114	Feuchte bis nasse, grundwasserbeeinflusste Sandböden, z. T. lehmig, örtlich moorig	Gleye und Anmoorgleye, örtl. geringmächtige Moore	Fluviatiler Sand, örtl. mit Torfdecke
Grundwasserferne, ebene bis wellige Geest	121	Mäßig trockene, nährstoffarme, meist steinige Sandböden, verwehbar	Podssole-Braunerden und Podssole	Geschiebedecksand, z.T. Flugsand, meist über glazifluviatiliem Sand
	122	Mäßig trockene, in tieferen Lagen grundwasserbeeinflusste, nährstoffarme Sandböden, verwehbar	Podssole und Podssole-Braunerden, in tieferen Lagen Gley-Podssole	Fluviatiler Sand und Flugsand
	124	Frische, örtlich mäßig trockene, lehmig-schluffige Sandböden	Braunerden und Plaggengesche, in tieferen Lagen Gley-Braunerden	Hochflutlehm oder Plaggenauftrag über fluviatiliem Sand
	125	Frische, örtlich staunasse, meist steinige, lehmige Sandböden mit Lehm im Untergrund, örtl. im Unterboden	Braunerden, Pseudogley-Braunerden und Plaggengesche, örtl. Pseudogleye	Geschiebedecksand über Geschiebelehm, z.T. mit Flugsanddecke
	128	Feuchte, meist langfristig staunasse Tonböden, verbreitet mit sandig-lehmigem Oberboden	Pseudogleye, in tieferen Lagen Gley-Pseudogleye	Beckenton, verbreitet mit Geschiebelehmdecke
Grundwasserferne, hügelige Geest	131	Trockene, nährstoffarme, steinige, verbreitet grobkörnige Sandböden	Podssole, örtl. Podssole-Braunerden	Geschiebesand und glazifluviatiler Sand
	132	Trockene, nährstoffarme, lockere Sandböden, leicht verwehbar	Podssole und Ranker	Dünensand

Maritim-Subkontinentale Flachlandregion

Klima: mittelfeucht: Jahresniederschläge mittel (650-700 mm), rel. Luftfeuchte mittel (Jahresdurchschnitt 81%), Lufttemperatur mittel (Jahresdurchschnitt 8,4°C), Jahrestemperaturschwankungen mittel (16,4°C), klimatische Wasserbilanz mit mittlerem Wasserüberschuß (200-300 mm/Jahr) bei mittlerem bis hohem Defizit im Sommerhalbjahr (50-75 mm); Vegetationszeit mittel bis lang (≅ 220 Tage/Jahr).

Relief: eben bis wellig, gegliedert durch schmale Täler, weite Niederungen und herausragende hügelige Endmoränen- und Dünenzüge; Höhenlage vorwiegend 20-80 m über NN.

Böden: vorwiegend Sandböden, z.T. mit lehmigem Unterboden bzw. Untergrund oder (und) geringmächtiger Lehm- und Schluffdecke in grundwasserferner und grundwassererferner Lage, örtlich mit Staunässe.

Landschaft: abwechslungsreiche Geestlandschaft mit Acker-, Grünland- und Waldnutzung auf engkörnig wechselnden Böden.

Grundwasserernahe, ebene Geest	211	Frische, stellenweise trockene oder feuchte, grundwasserbeeinflusste Sandböden	Gley-Podssole, in höheren Lagen Podssole, in tieferen Lagen Gleye	Fluviatiler Sand, z.T. Flugsand
	212	Frische, stellenweise trockene oder feuchte, grundwasserbeeinflusste, meist staunasse, z.T. steinige Sandböden, verbreitet mit Lehm und Ton im Unterboden	Pseudogley-Podssole, in höheren Lagen Podssole, in tieferen Lagen Gleye und Pseudogleye	Fluviatiler und glazifluviatiler Sand, örtl. Geschiebedecksand, meist über Geschiebelehm oder Verwitterungston
	213	Frische, bis feuchte, grundwasserbeeinflusste, schluffige Sand- und Lehm böden mit Sand im Unterboden und Untergrund	Gley-Podssole und Podssole-Gleye	Sandlöß und Schwemmlehm über glazifluviatiliem Sand
	214	Feuchte bis nasse, grundwasserbeeinflusste Sandböden, z.T. lehmig, örtlich moorig	Gleye und Anmoorgleye, örtl. geringmächtige Moore	Fluviatiler Sand, örtl. mit Torfdecke
Grundwasserferne, ebene bis wellige Geest	221	Trockene, nährstoffarme, meist steinige Sandböden, verwehbar	Podssole-Braunerden und Podssole	Geschiebedecksand, z.T. Flugsand, meist über glazifluviatiliem Sand
	222	Trockene, in tieferen Lagen grundwasserbeeinflusste, nährstoffarme Sandböden, verwehbar	Podssole und Podssole-Braunerden, in tieferen Lagen Gley-Podssole	Fluviatiler Sand und Flugsand
	224	Mäßig trockene, verbreitet frische, lehmig-schluffige Sandböden	Braunerden und Plaggengesche, in tieferen Lagen Gley-Braunerden	Hochflutlehm oder Plaggenauftrag über fluviatiliem Sand
	225	Mäßig trockene bis frische, örtlich staunasse, meist steinige, lehmige Sandböden mit Lehm im Untergrund, örtl. im Unterboden	Braunerden und Pseudogley-Braunerden, örtl. Pseudogleye	Geschiebedecksand über Geschiebelehm, z.T. mit Flugsanddecke
	226	Frische, örtl. staunasse, lehmige Schluffböden, verbreitet mit Sand, örtl. mit Lehm im Unterboden, in Hanglagen leicht erodierbar	Parabraunerden und Braunerden, örtl. Plaggengesche und Pseudogleye	Sandlöß, verbreitet über glazifluviatiliem Sand, z.T. über Geschiebelehm
	227	Frische bis feuchte, staunasse, in tieferen Lagen grundwasserbeeinflusste, lehmige Schluffböden mit Lehm im Unterboden	Pseudogleye, in tieferen Lagen Gleye	Sandlöß, meist über Geschiebelehm
	228	Frische bis feuchte, meist langfristig staunasse Tonböden, verbreitet mit sandig-lehmigem Oberboden	Pseudogleye, in tieferen Lagen Gley-Pseudogleye	Verwitterungston, verbreitet mit Geschiebelehmdecke
	Grundwasserferne, hügelige Geest	231	Trockene bis sehr trockene, nährstoffarme, steinige, verbreitet grobkörnige Sandböden	Podssole-Braunerden, örtl. Podssole
232		Trockene bis sehr trockene, nährstoffarme, lockere Sandböden, leicht verwehbar	Podssole und Ranker	Dünensand

Talauen und Moore

Klima: abweichend von den umliegenden Klimaregionen stark von Grund- und Oberflächenwasser beeinflusst, insbesondere Nebelbildung und Spätfrostdauer in Abhängigkeit von Entwässerung und Luftbewegung; Vegetationszeit mittel bis lang (≅ 210-230 Tage/Jahr).

Relief: weitgehend eben.

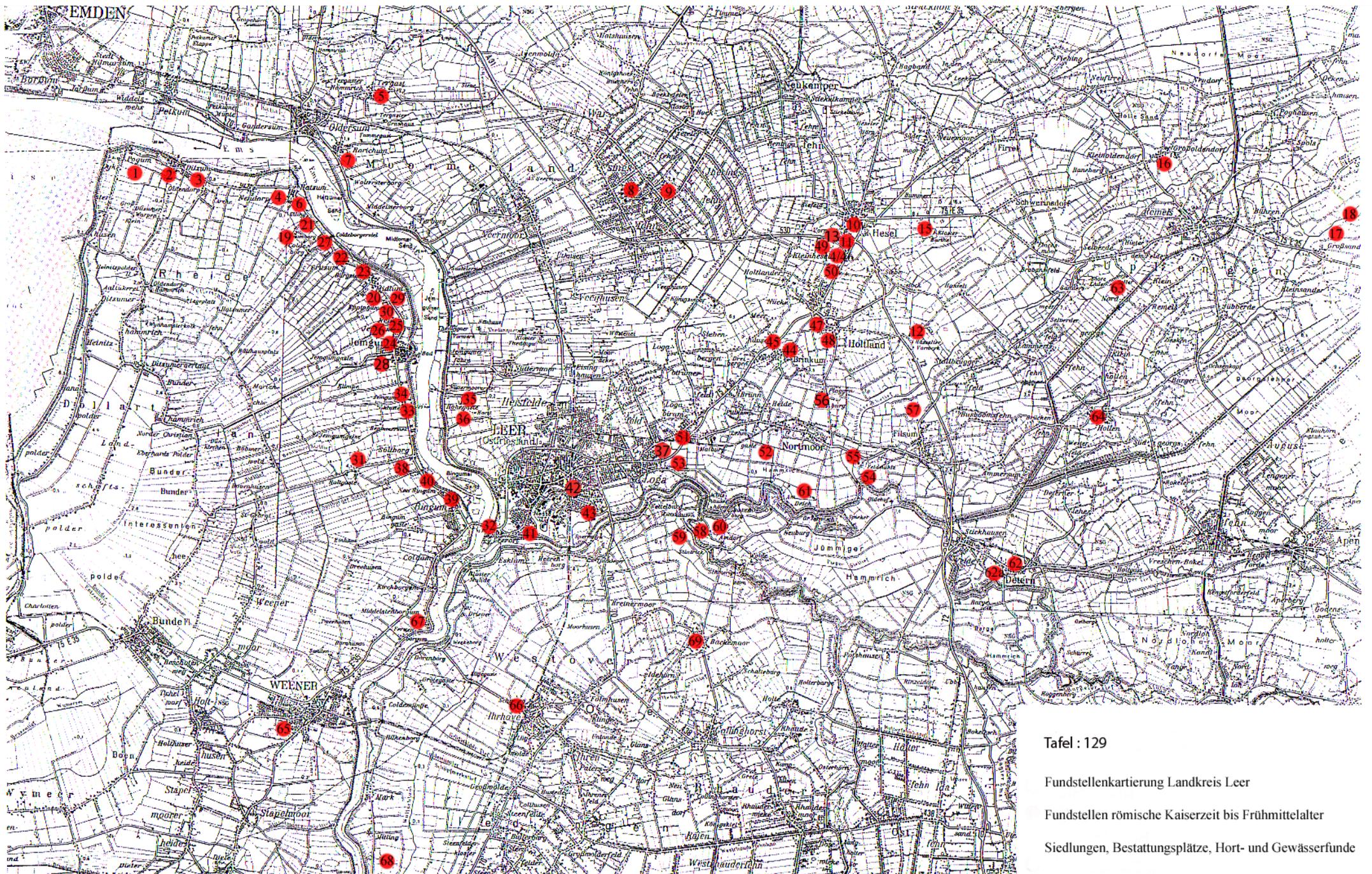
Böden: in den Talauen in Abhängigkeit vom Einzugsgebiet unterschiedliche Böden, meist mit stark schwankendem Grundwasser, z. T. mit Überflutungsgefahr, sowie vorwiegend nasse Moorböden.

Landschaft: von Grund- und Oberflächenwasser geprägte Landschaften, teils einformig, teils abwechslungsreich, mit Grünland- und Ackernutzung, örtlich Wald und Ödland.

Talauen, z.T. mit Überflutungsgefahr	011	Frische bis feuchte, in tieferen Lagen nasse, grundwasserbeeinflusste Sandböden, verbreitet lehmig, örtl. anmoorig	Auengleye, in tieferen Lagen Anmoorgleye, in Flußnähe örtl. Auenböden	Fluviatiler Sand, z.T. mit Auelehmdecke
Moore	021	Feuchte bis nasse, örtlich frische, meist entwässerte, nährstoffarme Hochmoorböden, örtl. Sandmischkulturen oder Torfstichflächen, meist mit Sand, örtl. mit Lehm im Untergrund	Hochmoore, teilweise abgetorft oder tief umgebrochen	Hochmoortorf, verbreitet über Niedermoor torf (z.T. > 2m mächtig), über glazifluviatiliem und fluviatiliem Sand, z.T. über Geschiebelehm
	023	Feuchte bis nasse, meist entwässerte Niedermoorböden, verbreitet mit Sand im Untergrund	Niedermoores, stellenweise Anmoorgleye	Niedermoor torf, meist über fluviatiliem Sand
	024	Frische bis feuchte, entwässerte, mit Sand durchsetzte Hoch- und Niedermoorböden, meist mit Sand im Untergrund	Sandmischkulturen	Hoch- und Niedermoor torf und meist fluviatiler Sand

Schwermetallanreicherungen im Boden



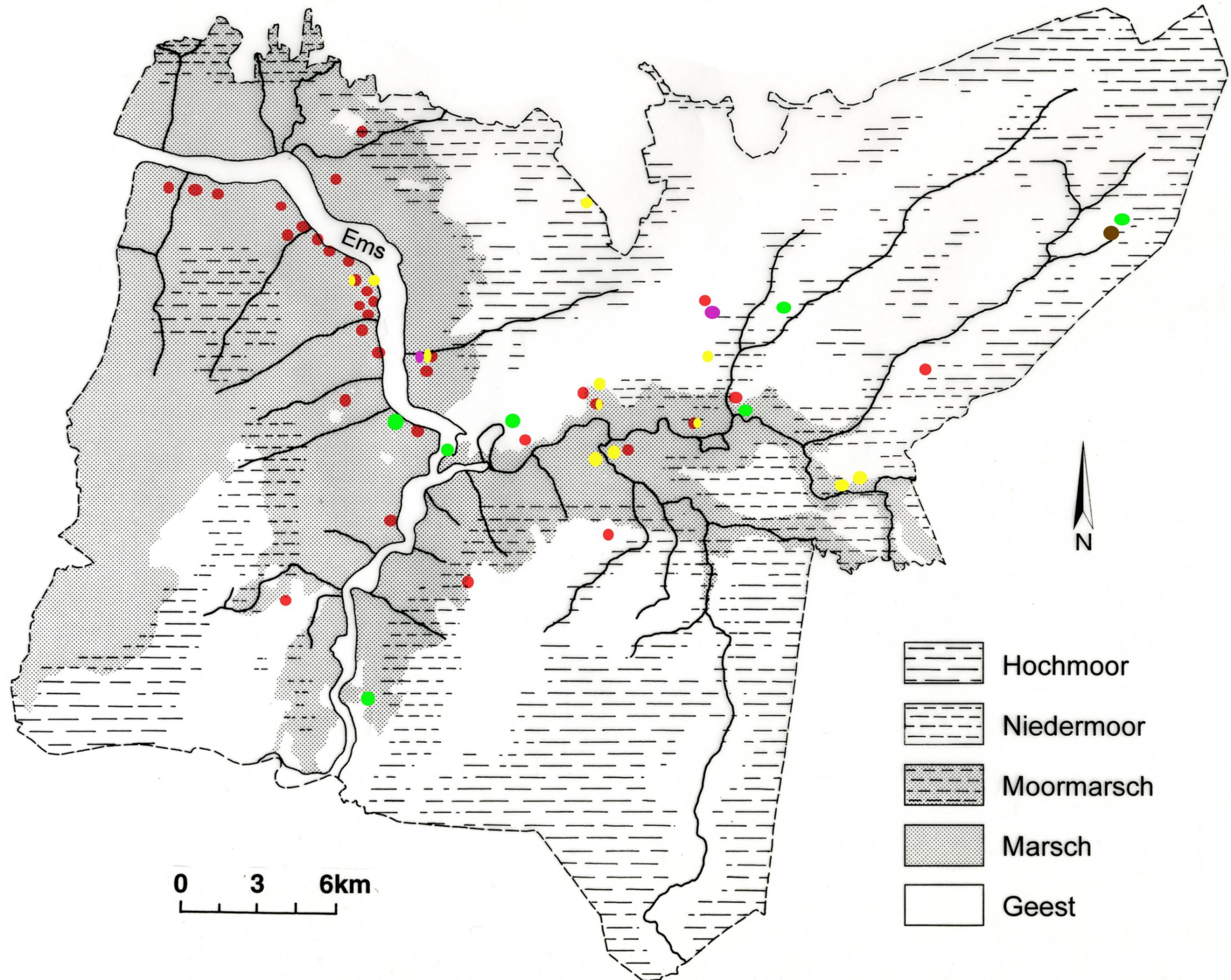


Tafel : 129

Fundstellenkartierung Landkreis Leer

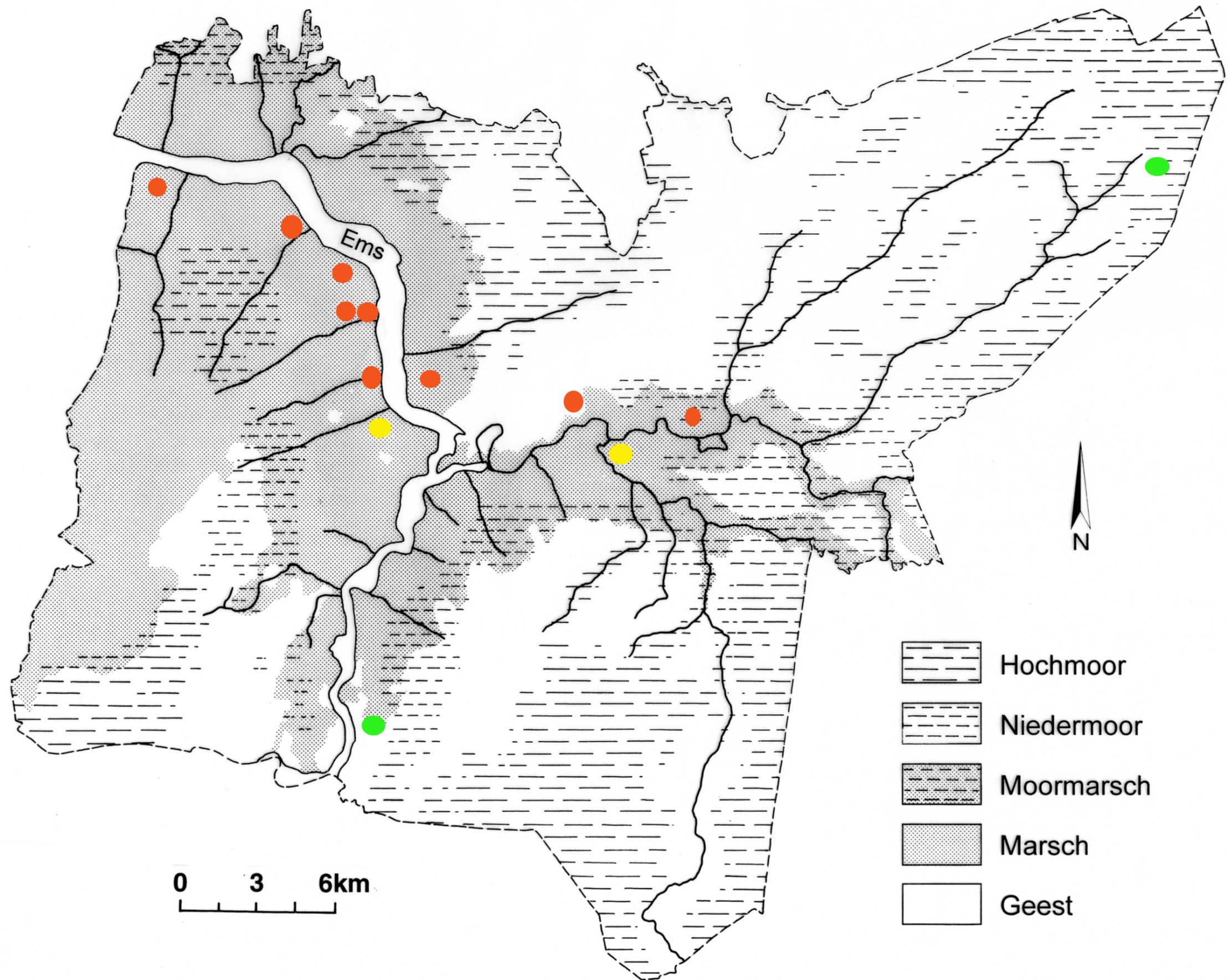
Fundstellen römische Kaiserzeit bis Frühmittelalter

Siedlungen, Bestattungsplätze, Hort- und Gewässerfunde



- Siedlung
- Gräber
- Hortfund
- Bohlenweg
- Werkplatz

Tafel 130 : Fundstellen der römischen Kaiserzeit im Landkreis Leer

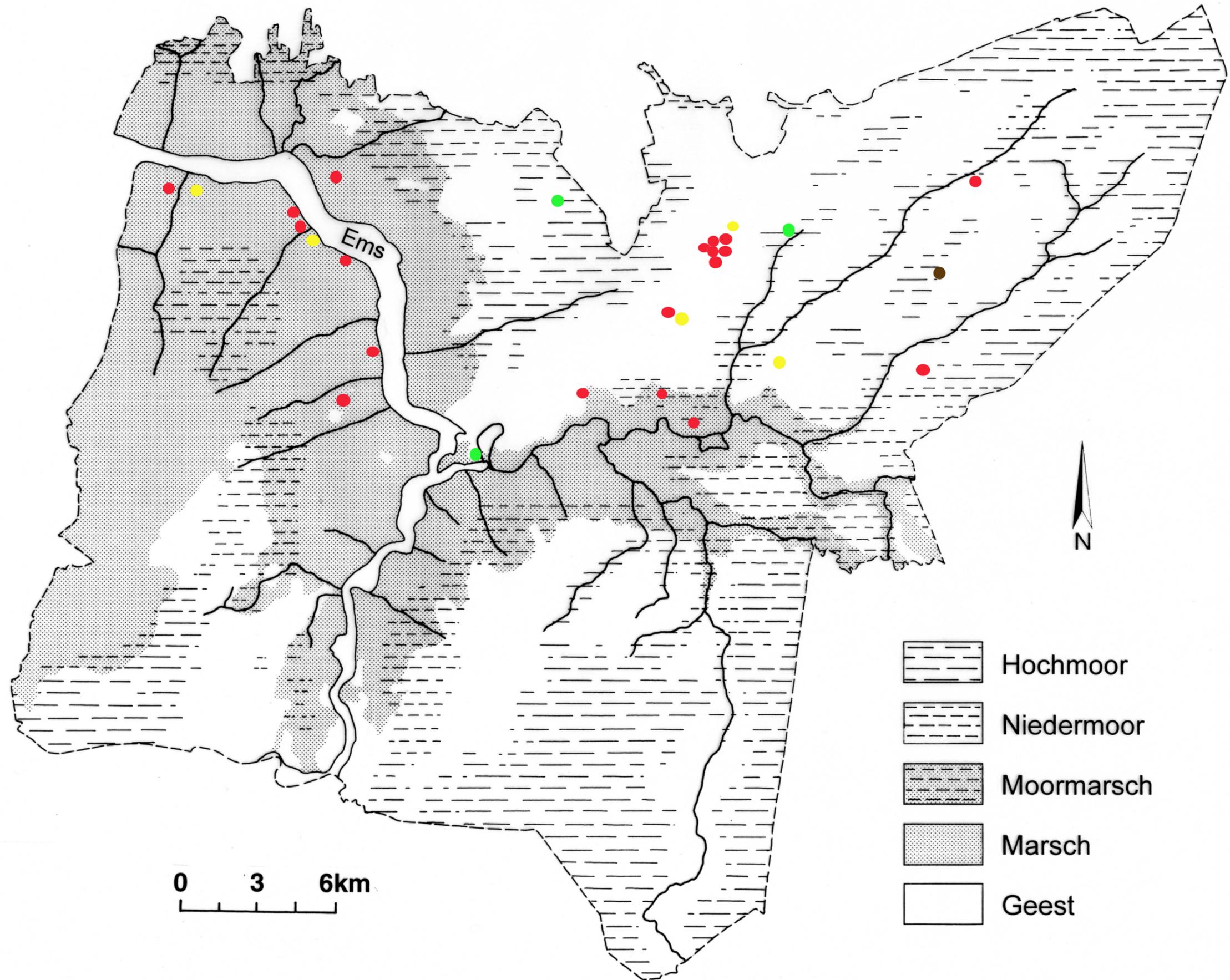


● Siedlung

● Bestattung

● Hortfund

Tafel 131: Fundstellen der Völkerwanderungszeit im Landkreis Leer



- Siedlung
- Bestattung
- Hortfund
- Bohlenweg

Tafel 132 : Fundstellen des Frühmittelalters im Landkreis Leer