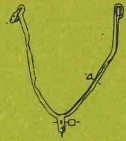
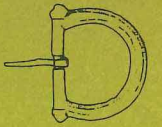
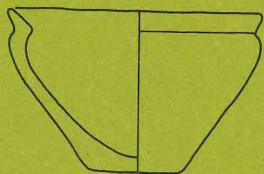


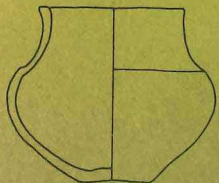
VIJFENTWINTIG EEUWEN BEWONING IN HET TERPENLAND TEN NOORDWESTEN VAN GRONINGEN



AFBEELDINGEN



DOOR
M. MIEDEMA



VIJFENTWINTIG EEUWEN
BEWONING IN HET TERPENLAND
TEN NOORDWESTEN VAN
GRONINGEN

DEEL I AFBEELDINGEN

VRIJE UNIVERSITEIT TE AMSTERDAM

VIJFENTWINTIG EEUWEN
BEWONING IN HET TERPENLAND
TEN NOORDWESTEN VAN
GRONINGEN

ACADEMISCH PROEFSCHRIFT

ter verkrijging van de graad van
doctor in de letteren
aan de Vrije Universiteit te Amsterdam,
op gezag van de rector magnificus
dr. H. Verheul,
hoogleraar in de faculteit der wiskunde en natuurwetenschappen,
in het openbaar te verdedigen op
woensdag 2 maart 1983 te 13.30 uur
in het hoofdgebouw der universiteit,
De Boelelaan 1105

door

MARIJKE MIEDEMA

geboren te Franeker

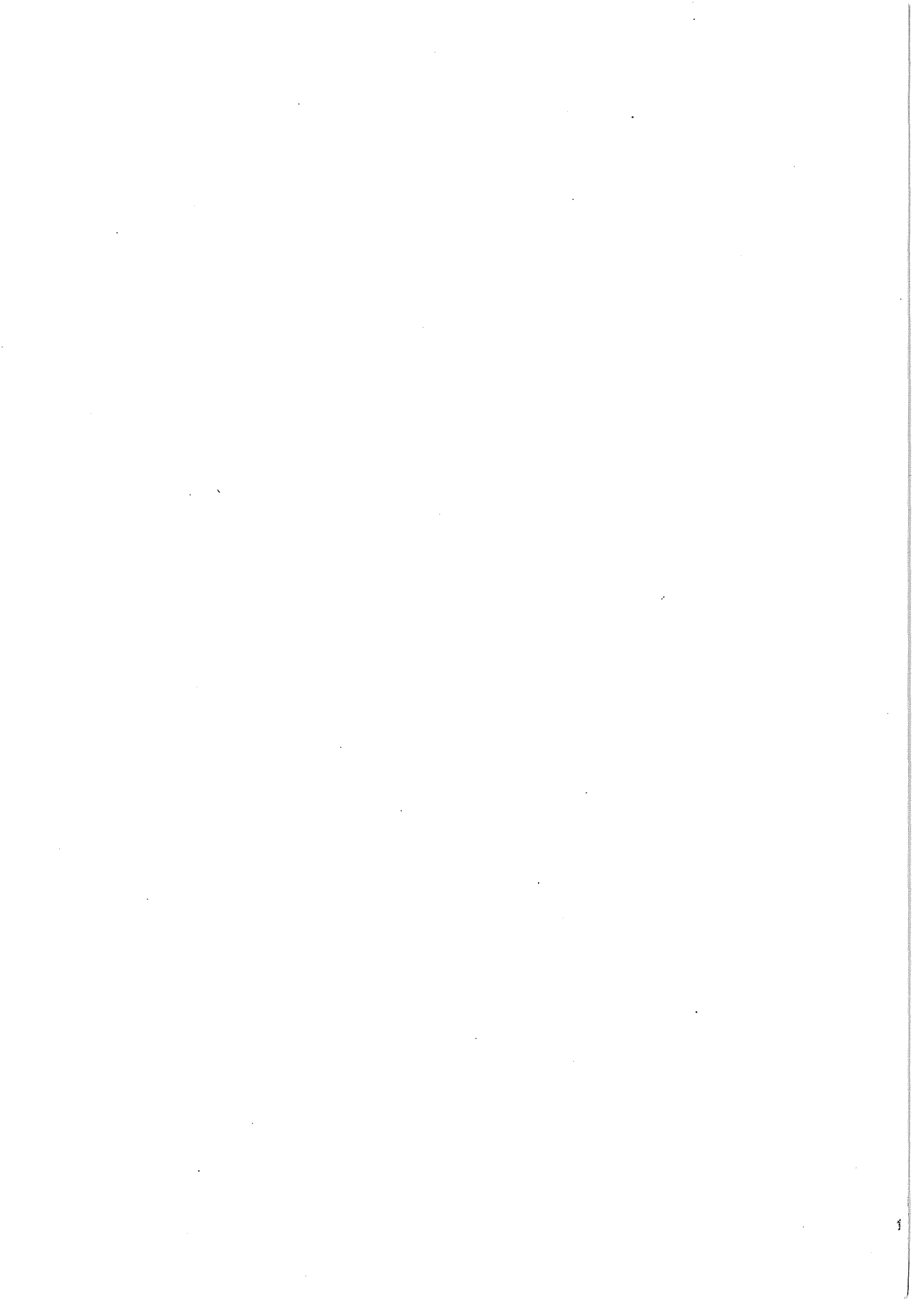


drukkerij doevendans dieren

Promotor : Prof.dr. W.A. van Es
Copromotor : Dr. A.J. Wiggers
Referent : Prof.dr. H.T. Waterbolk

*Gods Almacht wenkte van den troon,
En schiep elk volk een land een woon,
Hier vestte zij een grondgebied,
Dat zij ons zelve scheppen liet.*

A.C.W. Staring



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- fig 2 Dieptelijnenkaart van de pleistocene ondergrond in het onderzoeksgebied (naar Roeleveld fig 4).
- fig 3 Morfologische onderverdeling van het pleistocene oppervlak in het onderzoeksgebied (naar Roeleveld fig 9).
- fig 4 Palaeogeografische reconstructie van het Groningse kustgebied omstreeks 6600 ¹⁴C y v.h. (naar Roeleveld fig 57).
- fig 5 Palaeogeografische reconstructie van het Groningse kustgebied omstreeks 4400 ¹⁴C y v.h. (naar Roeleveld fig 59).
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- fig 9 Reconstructie van de oude waterlopen.
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- fig 15 Verspreiding en ligging van de Oudtijds verlaten boerderijplaatsen, type 3a.
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- fig 28 Type IID. 1 : Wierum (b1913/11.115).

- fig 29 Type IIC2. 1, 2, 3 : Feerwerd-N (b1912/2.274, 276, 275); 4 : Garnwerd (1965/VIII 1); 5, 6, 9, 12, 13, 15, 16 : Brilllerij (2 x b1913/11.121, b1912/2.27, 61, 98, 60, b1913/11.121); 7, 8, 10, 11, 14 : Wierum (5 x b1913/11.115).
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- fig 31 Type IIIB. 1 : Oostum (1913/VI 50); 2, 6 : Brilllerij (1910/I 265, b1912/2.122); 3, 4, 5 : Wierum (3 x b1913/11.115); 7 : Feerwerd-N (1889/VI 7).
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- fig 39 Type IVCy. 1, 2, 3 : Brilllerij (b1912/2.29, 94, 1910/I 275); 4, 5, 6, 7 : Wierum (4 x b1913/11.115).
- fig 40 Type IVDx. 1, 5 : Wierum (2 x b1913/11.115); 2, 3, 4, 6 : Brilllerij (1910/I 278, b1912/2.88, 197, 64).
- fig 41 Type IVDy. 1 : Feerwerd-N (b1912/2.266); 2, 5 : Brilllerij (b1913/11.121, b1912/2.91); 3, 4, 6, 8 : Wierum (4 x b1913/2.115); 7, 9 : Garnwerd (1962/VI 3, b1913/11.88).
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- fig 43 Type IVEy. 1, 2, 3, 4, 6 : Wierum (5 x b1913/11.115); 5 : Brilllerij (b1913/11.121); 7 : Garnwerd (1904/VI 1).
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- fig 53 Type VA. 1 : Wierum (b1913/11.115); 2 : Brilllerij (b1913/11.121).
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- fig 57 Type IXA. 1 : Brilllerij (b1912/2.198).
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- fig 58 Type XA. 1 : Brilllerij (1910/I 260); 2, 6 : Oostum (1968/VI 137, 1913/VI 47); 3 : Garnwerd (b1913/11.96); 4, 5, 7 : Wierum (b1912/2.490, 492, 472).
- fig 59 Type XB. 1 : Garnwerd (1910/I 22); 2 : Feerwerd-N (1889/VI 6); 3 : Feerwerd-Z (1916/VII 19);
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- fig 60 Type XIC. 1 : Wierum (b1913/12.107); 2 : Brilllerij (b1913/11.119); 3 : Bauwert (1933/IX 24); 4 : 7Bz17 (1925/I 1); 5 : Feerwerd-N (1890/VI 16).
- fig 61 Type XIA. 1, 2, 7 : Oostum (1908/VI 33, 1913/VI 51, 49); 3 : Bauwert (1875/VI 8); 4, 9 : Brilllerij (b1913/11.118, 121); 5 : Garnwerd (1964/I 2); 6 : Aalsum (1920/II 46); 8, 10, 11, 12 : Wierum (4 x b1913/11.115).
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- fig 65 Type XIIC. 1 : Oostum (1908/VI 24); 2, 5 : Garnwerd (1905/VI 6, 1901/VI 3); 3, 8 : Aalsum (1920/II 53, 55); 4 : Antum (1900/I 54); 6, 9 : Franssum (2 x 1962/I 13); 7 : Feerwerd-Z (b1912/12.31); 10 : Almahoeve (1969/XI 6).
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- fig 67 Type XIII. 1 : Feerwerd-N (1889/VI 5); 2 : Garnwerd (1900/VI 1).
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- fig 69 Type XV. 1 : Brilllerij (b1913/11.121).
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- fig 75 Type XIXC. 1, 5, 6 : Joeswerd (1910/I 34, 318, 1909/VII 4); 2, 10 : Dorkwerd (1909/I 51, 1908/VIII 18); 3 : Garnwerd (1971/X 13); 4 : Feerwerd-Z (1916/VII 21); 7, 8 : Ezinge (1926/VIII 185, 1929/V 406⁷); 9 : Bauwert (1933/IX 31).
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fig 78 Type XIXD2. 1, 3 : Joeswerd (1910/I 33, 1909/VIII 1); 2, 4 : Dorkwerd (1908/VIII 4, 1909/I 3).

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- fig 91 Type 4.2.2.2.1 1 : Franssum (1973/I 18); 2 : Wierum (b1912/2.489); 3 : Garnwerd (b1912/11.68).
- fig 92 Type 4.2.2.2.2 1 : Garnwerd (1964/I 1).
- fig 93 Type 4.2.3 1 : Feerwerd-Z (b1912/12.3); 2 : Dorkwerd (1909/I 1); 3, 4, 6, 7 : Wierum (b1912/2.493, 491, 500, b1913/11.115); 5 : Oostum (1917/X 13).
- fig 94 Type 4.2.4 1 : Aalsum (1920/II 73); 2 : Feerwerd-Z (b1912/12.5); 3, 4 : Adorp II (2 x 1962/I 4).

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- fig 95 Type 5.1.1.1 1 : Antum (1915/VI 4); 2 : Ezinge (1931/V 509); 3 : Oostum (1924/VI 19); 4 : Feerwerd-N (b1912/2.293).
- fig 96 Type 5.1.1.2 1, 2 : Oostum (1930/VI 30, 31); 3 : Feerwerd-N (1890/I 33).
- fig 97 Type 5.1.1.3 1 : Valcum (1891/I 2); 2 : Joeswerd (1910/I 11); 3 : Aalsum (b1931/2.62).
- fig 98 Type 5.1.1.4 1 : Ezinge (1930/IV 501).
- fig 99 Type 5.1.1.7 1, 2 : Ezinge (1931/V 600, 1932/IV 812).
- fig 100 Type 5.1.1.6 1 : Wetsinge (1892/I 4).
- fig 101 Type 5.1.1.8 1 : Ezinge (1933/IV 1465); 2 : Joeswerd (1908/I 124).
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- fig 103 Type 5.1.1.10 1 : Antum (1963/II 1^a); 2 : Ezinge (1929/V 373).
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- fig 105 Type 5.1.1.15 1 : Oostum (1912/VI 5); 2 : Ezinge (1927/VII 232).
- fig 106 Type 5.1.1.5 1 : Feerwerd-N (1890/I 32); 2 : Ezinge (1932/IV 825); 3, 4 : Garnwerd (2 x 1971/X 11).
- fig 107 Type 5.1.1.14 1 : Dorkwerd (1908/IX 5); 2 : Ezinge (1929/V 326); 3 : Oostum (1916/VI 4).

- fig 108 Type 5.1.1.12 1, 2, 3, 4 : Ezinge
(4 x 1925/VIII 94).
- fig 109 Type 5.1.1.13 1 : Feerwerd-N (1912/II 294).
- fig 110 Type 5.1.1.16 1 : Wierum (b1913/11.13).
- fig 111 Type 5.1.2.1 1 : Dorkwerd (1912/II 274); 2 :
Oostum (1913/VI 37^a); 3 : Ezinge (1933/IV 1541).
- fig 112 Type 5.1.2.2 1 : Ezinge (1929/V 406¹²); 2 :
Joeswerd (1910/I 328).
- fig 113 Type 5.1.2.4 1 : Joeswerd (1909/II 76);
2 : Wierum (b1912/2.554).
- fig 114 Type 5.1.2.8 1, 2 : Antum (1963/II 1ⁿ, 1^q).
- fig 115 Type 5.1.2.6 1 : Oostum (1913/VI 376);
2 : Antum (1963/II 1^o); 3 : Ezinge (1927/VII 251);
4 : Joeswerd (1910/I 43).
- fig 116 Type 5.1.2.7 1, 2 : Antum (1963/II 1^m, 1^p);
3 : Joeswerd (b1912/2.390).
- fig 117 Type 5.1.3.3 1 : Antum (1963/II 1^u).
- fig 118 Type 5.1.3.4 1 : Brillerij (b1912/2.233).
- fig 119 Type 5.1.2.3 1 : Antum (1963/II 1^r).
- fig 120 Type 5.1.3.6 1, 2 : Krassum (2 x 1890/VI 8).
- fig 121 Type 5.1.3.5 1, 2 : Oostum (1913/VI 35, 36);
3 : Antum (1907/I 7); 4 : Wierum (1912/VI 6).
- fig 122 Type 5.1.2.10 1 : Aalsum (1920/II 189); 2 :
Oostum (1913/VI 37^c); 3, 4 : Ezinge
(1925/VIII 116, 1931/V 670).
- fig 123 Type 5.1.2.5 1 : Feerwerd-N (1890/I 35); 2 :
Antum (1963/II 1^e); 3 : Ezinge (1927/VII 252).
- fig 124 Type 5.1.3.1 1 : Joeswerd (1908/V 1);
2 : Ezinge (1932/IV 1334).
- fig 125 Type 5.1.3.2 1, 2 : Garnwerd (2 x 1912/VI 1);
3 : Feerwerd-N (1912/VI 3); 4 : Ezinge
(1925/VIII 12).
- fig 126 Type 5.1.5.1 1 : Joeswerd (1912/II 52);
2, 3 : Ezinge (1932/IV 1197, 1931/V 607).

- fig 127 Type 5.1.5.2 1, 3 : Joeswerd (1910/I 322,
b1912/2.385); 2 : Feerwerd-N (1890/I 34).
- fig 128 Type 5.1.5.4 1, 2 : Antum (1963/II 1^y, 1^x).
- fig 129 Type 5.1.5.3 1 : Ezinge (1932/IV 945); 2, 3,
4 : Antum (1907/I 6, 1909/I 284, 1963/II 1^v).
- fig 130 Type 5.1.4.2 1 : Brilllerij (b1912/2.232);
2 : Joeswerd (b1912/2.391).
- fig 131 Type 5.1.4.1.1 1 : Oostum (1913/VI 33);
2 : Wierum (b1912/2.558).
- Type 5.1.4.1.3 3 : Antum (1963/II 1^k).
- Type 5.1.4.1.2 4 : Antum (1963/II 1^j).
- Type 5.1.4.1.4 5 : Oostum (1913/VI 34).
- fig 132 Type 5.1.6.1 1 : Ezinge (1931/V 557).
- fig 133 Type 5.1.6.2 1, 2 : Antum (1908/I 110,
1909/I 1); 3 : Joeswerd (b1912/2.384);
4 : Ezinge (1931/V 764).
- fig 134 Type 5.1.7.1 1 : Brilllerij (1920/I 1); 2 :
Garnwerd (1926/VII 2); 3, 6 : Antum (1963/II 1^h,
1^g); 4, 5 : Ezinge (2 x 1929/V 314).
- fig 135 Type 5.1.7.2 1 : Wierum (1913/VI 1); 2 :
Dorkwerd (1908/IX 2); 3 : Ezinge (1929/V 264);
4 : Antum (1963/II 1ⁱ).

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- fig 136 Type 5.2.1.1 1, 2 : Antum (1906/I 2^a, 2).
- fig 137 Type 5.2.1.2.1 1 : Reitdiep (1962/VII 14);
2 : Antum (1906/I 2^d); 3 : Oostum (1907/I 3);
4 : Dorkwerd (1908/VII 9); 5 : Wierum
(b1913/11.204^a).
- fig 138 Type 5.2.1.2.2 1, 3 : Antum (1906/I 2^e, 1);
2 : Oostum (1908/VI 55).
- fig 139 Type 5.2.2.2 1 : Oostum (1908/VI 51);
2, 3 : Ezinge (losse vondsten).
- fig 140 Type 5.2.2.1 1, 3 : Antum (1906/I 2^b, 2^c);
2 : Garnwerd (1905/VI 2).

- fig 141 Type 5.2.3.1.1 1 : Joeswerd (1910/I 44);
2, 3 : Garnwerd (b1913/11.215, 216).
- fig 142 Type 5.2.3.1.2 1 : Wierum (b1912/2.552);
2 : Joeswerd (1908/VI 6).
- fig 143 Type 5.2.3.1.2 1 : Den Ham (1883/VI 6).
- fig 144 Type 5.2.3.2 1 : Ezinge (losse vondst).
- fig 145 Type 5.2.4.1.1 1 : Oostum (1968/VI 108);
2 : Ezinge (1932/IV 881).
- fig 146 Type 5.2.4.1.2 1 : Joeswerd (1910/I 39);
2, 3 : Aalsum (1920/II 8^a, 13^a); 4, 5, 6 :
Bauwert (1933/IX 13, 15, 14).
- fig 147 Type 5.2.4.1.3 1, 2, 3, 4 : Bauwert
(1933/IX 13, 14, 16, 24^a).
- fig 148 Type 5.2.4.1.4 1 : Joeswerd (b1912/2.381);
2 : Bauwert (1933/IX 16).
- fig 149 Type 5.2.4.1.5 1 : Antum (1907/I 4); 2,
4 : Wierum (b1912/2.548, 549); 3 : Joes-
werd (b1913/11.205).
- fig 150 Type 5.2.4.1.6 1 : Wierum (b1912/2.550);
2, 3, 4, 5 : Aalsum (4 x 1920/II 2^a).
- fig 151 Type 5.2.4.2 1 : Bauwert (1933/IX 16); 4,
5, 8, 11 : Ezinge (1929/V 263, 1933/IV 1548,
1927/VII 253, 1932/IV 966); 2, 6 : Oostum
(1908/VI 22, 1909/V 14); 3 : Antum
(1908/I 107); 7, 9 : Garnwerd (b1913/11.217,
212); 10 : Wierum (b1912/2.566).
- fig 152 Type 5.2.4.1.7 1 : Ezinge (1931/V 556).
- fig 153 Type 5.2.4.3 1 : Antum (1910/I 34 + 348);
2 : Garnwerd (b1913/11.207).
- fig 154 Type 5.2.4.4 1 : Dorkwerd (1908/I 56).
- fig 155 Type 5.2.4.5 1 : Antum (1908/I 93);
2 : Garnwerd (b1913/11.206).
- fig 156 Type 5.2.4.6 1 : Oostum (1908/VI 52);
2 : Ezinge (1932/IV 851).

- fig 157 Type 5.2.5.1.3 1, 3 : Wierum (b1912/2.546, 547); 2 : Hoogkerk (1896/i 8); 4 : Dorkwerd (1908/I 44).
- fig 158 Type 5.2.6.2 1 : Dorkwerd (1908/IX 25); 2 : Antum (1907/I 2); 3 : Ezinge (losse vondst).
- fig 159 Type 5.2.5.1.1 1 : Aalsum (b1931/2.63); 2 : Ezinge (1932/IV 851).
- fig 160 Type 5.2.5.1.2 1 : Aalsum (1920/II 191); 2 : Oostum (1908/VI 51); 3 : Ezinge (losse vondst); 4 : Bauwert (1933/IX 31).
- fig 161 Type 5.2.6.1 1 : Feerwerd-Z (1909/I 194); 2 : Garnwerd (b1913/11.219); 3 : Bauwert (1933/IX 4).
- fig 162 Type 5.2.5.2.1 1 : Dorkwerd (1910/I 3); 2 : Antum (1908/VI 9).
- fig 163 Type 5.2.5.2.2 1 : Oostum (1908/VI 5).
- fig 164 Type 5.2.4.7 1 : Ezinge (losse vondst).

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- fig 165 Type 5.4.1 1, 4 : Dorkwerd (1908/IX 21, 1908/I 3); 2 : Groningen-stad (1971/X 43); 3 : Ezinge (1926/VII 157).

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- fig 166 Type 6.1.1.1.1 1, 2, 3, 4 : Ezinge (1933/IV 1533, 1533^a, 2 x 1512).
- fig 167 Type 6.1.1.1.2.1 1 : Ezinge (1929/V 333).
- fig 168 Type 6.1.1.1.2.2 1, 3, 4 : Ezinge (1929/V 339, 1932/IV 965, 1092^a); 2 : Wierum (b1913/11.170); 3 : Garnwerd (b1913/11.162).
- fig 169 Type 6.1.1.1.2.3 1 : Garnwerd (1926/IV 2); 2, 4, 5, 6 : Ezinge (1929/V 406¹³, 1933/IV 1419, 1930/IV 505, 1926/VII 85); 3 : Aalsum (1920/II 147); 7 : Wierum (b1912/2.543).
- fig 170 Type 6.1.1.1.2.4.1 1, 4 : Oostum (1908/VI 48, 47); 2 : Aalsum (1920/II 167);

- 3 : Valcum (1900/I 368).
- fig 171 Type 6.1.1.1.2.4.2 1, 3, 4 : Garnwerd
(1909/I 286, b1912/12.69, 123); 2, 6, 8 : Dork-
werd (1908/I 27, 3, 167); 5 : Bauwert
(1933/IX 13); 7 : Valcum (1900/I 173); 9 : Aal-
sum (b1931/2.43).
- fig 172 Type 6.1.1.1.2.5 1 : Oostum (1908/VI 45);
2 : Feerwerd-N (1900/VI 9).
- fig 173 Type 6.1.1.1.2.6 1, 3 : Dorkwerd (1908/I 58,
59); 2 : Aalsum (1920/II 147); 4, 7 : Oostum
(1908/VI 46, 44); 5 : 7Bz17 (1925/I 1); 6 :
Valcum (1900/I 174); 8 : Ezinge (1926/VII 11).
- fig 174 Type 6.1.1.1.2.7 1 : Joeswerd (b1912/2.349);
2 : Selwerd-klooster (1967/II 1).
- fig 175 Type 6.1.1.1.2.8 1, 2 : Bauwert (2 x
1933/IX 13); 3 : Ezinge (1930/IV 505); 4 :
Garnwerd (b1913/11.161); 5 : Dorkwerd
(1908/I 20); 6 : Joeswerd (b1912/2.363).
- fig 176 Type 6.1.1.1.2.6 1, 2 : Aalsum (1920/II 150,
151); 3 : Oostum (1908/VI 49); 4 : Joeswerd
(b1912/2.348).
- fig 177 Type 6.1.1.1.2.9 1 : Dorkwerd (1908/I 20);
2, 3 : Joeswerd (1909/II 56, b1912/2.361).
- fig 178 Type 6.1.1.2 1 : Krassum (1900/I 375); 2 :
Ezinge (1932/IV 1307); 3 : Valcum (1900/I 380).
- fig 179 Type 6.1.2 1, 2, 3, 4, 5, 6, 7, 8, 9, 10z:
Ezinge (1929/V 316, 1927/V 3, 1931/V 698^a,
1932/IV 1203, 1923/VII 4, 1927/V 1, 1925/VIII^c,
1929/V 316, 1932/IV 1004, 1927/V 2).
- fig 180 Type 6.1.2 1, 2, 3, 4, 5, 6, 7 : Joeswerd
(b1912/2.370, 377, 371, 373 + 380, 379, 378,
1909/II 6); 8 : Antum (1909/I 283); 9, 12 :
Aalsum (b1931/2.38, 37); 10 : Garnwerd
(b1912/12.93); 11 : Valcum (1884/I 200).

- fig 181 Type 6.1.3 1, 2, 3, 4, 5, 6, 7 : Joeswerd (1910/I 55, 1909/II 72, 73, 74, b1912/2.352, 354, 353); 8 : Dorkwerd (1908/I 38); 9, 10 : Wierum (b1912/2.539, 540); 11, 12 : Ezinge (1926/VII 162, 1929/V 314^a).
- fig 182 Type 6.1.3 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11 : Aalsum (1920/II 170, 174, b1931/2.23, 24, 26, 27, 28, 29, 30, 31, 1920/II 201); 12, 13, 14, 15 : Ezinge (1925/VIII^b, 1929/V 406³, 406¹, 406²); 16 : Oostum (1908/VI 42); 17, 18, 19 : Garnwerd (1907/I 1, b1912/2.314^a, 314).
- fig 183 Type 6.1.4.1 1, 2 : Joeswerd (1910/I 316, 251); 3 : Feerwerd-Z (1909/I 196); 4, 7 : Oostum (1910/I 347, 1917/X 20); 5, 6 : Ezinge (1926/VII 12, 1927/V 4); 8 : Aalsum (1920/II 76); 9 : Dorkwerd (1908/VII 6).
- fig 184 Type 6.1.4.2.1 1 : Antum (1909/I 288); 2 : Feerwerd-Z (1962/II 41); 3 : Joeswerd (1910/I 315); 4 : Feerwerd-N (1900/VI 8).
- fig 185 Type 6.1.4.2.2 1 : Joeswerd (1909/V 1^a); 2 : Feerwerd-Z (1962/II 40); 3 : Franssum (1976/VIII 4).
- fig 186 Type 6.1.4.4 1 : Aalsum (1920/II 75).
- fig 187 Type 6.1.4.3 1 : Joeswerd (1910/I 313); 2 : Oostum (1917/X 22).
- fig 188 Type 6.1.5.1 1, 4 : Bauwert (1933/IX 16, 14); 2 : Aalsum (b1931/2.53); 3 : Feerwerd-Z (b1913/11.176); 5, 6 : Ezinge (1926/VII 154, 165).
- fig 189 Type 6.1.5.2 1, 2, 3 : Ezinge (1929/V 406¹¹, 1932/IV 1104, 1929/V 406¹⁰); 4 : Valcum (1884/I 143); 5 : Brilllerij (1910/I 252).
- fig 190 Type 6.1.5.3 1, 5, 6 : Ezinge (1929/V 263, 1932/IV 1104, 1255); 2 : Antum (1908/I 107); 3 : Oostum (1908/VI 22); 4 : Joeswerd (b1912/2.359).

- fig 191 Type 6.1.5.4 1 : Antum (1908/VI 23);
2 : Ezinge (1929/V 406⁹).
- fig 192 Type 6.1.5.5 1 : Ezinge (1923/VII 2).
- fig 193 Type 6.1.6.1.1 1, 2, 5 : Ezinge (1931/V 728,
1926/VII 126, 1925/VIII^d); 3, 4, 6, 7 : Aal-
sum (1920/II 168, 172, 178, 171); 8 : Dork-
werd (1908/I 42).
- fig 194 Type 6.1.6.1.2 1, 8 : Joeswerd (1909/II 61,
22); 2 : Valcum (1884/I 110); 3, 4, 5 : Ezinge
(1933/IV 1492, 1927/VII 263, 1923/VII 3); 6 :
Garnwerd (1962/VI 3); 7 : Oostum (1910/I 350).
- fig 195 Type 6.1.6.1.3 1, 2, 3, 4 : Dorkwerd
(1908/I 45, 47, 49, 46).
- fig 196 Type 6.1.6.2 1, 5, 7 : Joeswerd (b1912/2.357,
355, 356); 2 : Ezinge (1932/IV 912); 3 : Wierum
(b1912/2.538); 4, 8 : Garnwerd (1962/VI 3,
b1912/2.311); 6 : Aalsum (1920/II 169);
9 : Feerwerd-Z (b1912/12.17).
- fig 197 Type 6.1.7.2 1 : Ezinge (1926/VII 155);
2 : Oostum (1917/X 22).
- fig 198 Type 6.1.7.1 1 : Antum (1900/VI 5); 2 :
Aalsum (1920/II 133); 3 : Dorkwerd (1900/I 357);
4, 5 : Ezinge (1927/VII 256, 1932/IV 1101).
- fig 199 Type 6.1.8.1 1, 2 : Ezinge (1929/V 404,
1932/IV 902); 3 : Valcum (1890/VI 21).
- fig 200 Type 6.1.8.2 1, 3 : Joeswerd (b1912/2.376,
375); 2 : Aalsum (b1931/2.40).
- fig 201 Type 6.1.10.3 1, 2 : Ezinge (1941/XII 5,
1932/IV 1100); 3 : Aalsum (1920/II 180).
- fig 202 Type 6.1.9.1 1 : Feerwerd-N (1893/VI 6); 2,
4 : Ezinge (1927/VII 252, 243); 3, 5 : Aalsum
(1920/II 181, 152); 6 : Feerwerd-Z (b1912/12.17).
- fig 203 Type 6.1.9.2 1 : Valcum (1891/VI 38); 2 : Feer-
werd-N (1890/VI 12); 3 : Aduard (1894/VI 3); 4,
5 : Aalsum (1920/II 148, 149); 6 : Schillingeham
(1891/VI 39).

- fig 204 Type 6.1.10.1 1, 3, 6 : Prov.Groningen
(1900/I 108^a, 1900/II 73, 1900/I 108^b); 2, 4 :
Raskwerd (1941/I 97, 96); 5, 9 : Ezinge
(1931/IV 643, 1925/VIII 2^a); 7 : Feerwerd-Z
(1910/I 186); 8 : Joeswerd (1910/I 29).
- fig 205 Type 7.6 1 : Joeswerd (1910/I 10);
2 : Ezinge (1931/V 684).
- fig 206 Type 8.4 1 : Aalsum (1920/II 132);
2 : Ezinge (1927/VII 246).
- fig 207 Type 6.1.10.2 1, 2 : Joeswerd (1909/II 77, 68);
3 : Toornwerd (1900/VI 4); 4 : Raskwerd
(1941/I 99).
- fig 208 Type 6.1.10.2 1 : Ezinge (1930/IV 504); 2, 3 :
Joeswerd (1909/II 30, 29); 4 : Bauwert
(1904/VI 3).
- fig 209 Type 6.1.10.4 1, 2, 3, 4, 5, 6 : Antum
(3 x 1909/I 290, 1907/VI 7, 1909/I 292, 290).
- fig 210 Type 6.1.10.5 1, 3 : Ezinge (1925/VIII 63, 36);
2 : Brillerij (b1912/2.226).
- fig 211 Type 6.1.11.1 1, 2, 6 : Aalsum (1920/II 143,
142, 141); 3 : Dorkwerd (1908/I 41); 4 : Garn-
werd (1962/VI 3); 5, 7 : Ezinge (1931/V 593,
1932/IV 1189).
- fig 212 Type 6.1.11.2 1 : Valcum (1900/I 400).
- fig 213 Type 6.1.12 1, 3, 4, 5 : Ezinge (1932/IV 876,
1926/VII 160, 1932/IV 909, 1929/V 406⁵);
2 : Brillerij (b1912/2.228).
- fig 214 Type 6.1.13 1, 2 : Brillerij (b1912/2.223,
224); 3, 5 : Garnwerd (b1913/11.160, 1901/VI 4);
4 : Ezinge (1932/IV 1154).
- fig 215 Type 6.1.14 1, 3 : Oostum (1908/VI 26, 46);
2, 6, 7, 8 : Aalsum (1920/II 179, 184,
b1931/2.14, 52); 4, 13 : Ezinge (1932/IV 1108,
1931/V 728); 5 : Westeremden (1921/I 32); 9, 10,
11, 12 : Antum (1908/I 108, 106, 97, 168).

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- fig 216 Type 6.3.1.1 1 : Ezinge (1933/IV 1502).
- fig 217 Type 6.3.1.2 1, 2 : Ezinge (waarschijnlijk
1932/IV 825, 1926/VII 163).
- fig 217a Type 6.3.1.2 1 : Dorkwerd (1908/I 77).
- fig 218 Type 6.3.1.2 1 : Ezinge (1932/IV 1107).
- fig 219 Type 6.3.1.2 1 : Ezinge (waarschijnlijk
1932/IV 905).
- fig 220 Type 6.3.1.2 1 : Ezinge (1932/IV 1175).
- fig 221 Type 6.3.1.2 1 : Ezinge (1932/IV 1297^a).
- fig 222 Type 6.3.1.2 1 : Dorkwerd (1908/I 74).
- fig 223 Type 6.3.1.2 1 : Dorkwerd (1908/I 75).
- fig 224 Type 6.3.2.1 1 : Joeswerd (1910/VI 4);
2 : Paddepoel (1969/IV 2); 3, 4 : Garnwerd
(2 x 1971/I 14).
- fig 225 Type 6.3.2.1 1 : Paddepoel (1969/IV 2).
- fig 226 Type 6.3.2.2 1 : Ezinge (1930/IV 470);
2 : Wierum (1914/XII 4).
- fig 227 Type 6.3.8 1 : Joeswerd (1963/XI 3).
- fig 228 Type 6.3.3 1, 2, 3 : Dorkwerd (1909/I 50,
1908/IX 15, 1908/VIII 13); 4 : Ezinge
(1926/VII 200).
- fig 229 Type 6.3.5 1, 2, 3, 5 : Ezinge (1930/IV 443,
408^d, 1925/IV 68, 1930/IV 445); 4 : Antum
(1909/I 279); 6 : Aalsum (b1931/2.32).
- fig 230 Type 6.3.4 1, 2, 3 : Aalsum (b1931/2.32, 34
33); 4, 5 : Feerwerd-Z (1910/I 183, 184).
- fig 231 Type 6.3.7 1 : Dorkwerd (1908/I 12);
2, 3 : Ezinge (zonder nummer, 1932/IV 1010).
- fig 232 Type 6.3.6 1 : Garnwerd (1971/X 17).
- fig 233 Type 6.3.9 1, 3, 4 : Ezinge (1930/IV 484, zon-
der nummer, 1929/V 307); 2 : Garnwerd
(1912/XII 86); 5 : Dorkwerd (1908/I 57);
6 : Oostum (1908/VI 27).
- fig 234 Type 6.3.9.5 1 : Ezinge (1930/IV 414).

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- fig 235 Type 7.1 1, 4, 6 : Ezinge (1931/V 575, 1929/V 363, 1927/VII 233); 2 : Joeswerd (1910/I 35); 3 : Antum (1906/VI 6); 5 : Feerwerd-Z (1908/I 82); 7 : Dorkwerd (1908/VIII 26).
- fig 236 Type 7.2 1, 5 : Ezinge (1926/VII 179, 1932/IV 1370); 2 : Joeswerd (1910/I 56); 3 : Brilllerij (1910/I 253); 4 : Antum (1908/I 96).
- fig 237 Type 7.3 1, 3, 8 : Ezinge (1930/IV 470, 1933/IV 1416, 1932/IV 1258); 2, 4, 5, 7 : Paddepoel (1968/X 166, 194, 149, 160); 6, 9 : Joeswerd (1909/II 34, 14).
- fig 238 Type 7.4.1 1 : Ezinge (1926/VII 2); 2 : Joeswerd (1909/II 15).
- fig 239 Type 7.4.2 1, 2, 5 : Ezinge (1933/IV 1492, 1930/IV 478, 1929/V 293); 3, 4 : Brilllerij (1910/I 256, 257); 5, 7 : Joeswerd (1909/II 16, 1908/VI 19).
- fig 240 Type 7.4.3 1 : Ezinge (1933/IV 1493); 2 : Garnwerd (1962/VI 3); 3, 4, 5 : Joeswerd (1909/II 13, 12, 1908/VI 18).
- fig 241 Type 7.7.1 1 : Franssum (1876/I 1).
- fig 242 Type 7.7.2.2 1 : Ezinge (1932/IV 1107).
- fig 243 Type 7.5.1 1 : Brilllerij (1910/I 264^a, 264); 2, 3 : Paddepoel (1968/X 195, 151).
- fig 244 Type 7.5.1 1, 2 : Paddepoel (1968/X 152, 172).
- fig 245 Type 7.5.2 1, 4, 5 : Ezinge (1932/IV 985, 1931/V 632^b, 1932/IV 918); 2 : Dorkwerd (1909/I 10); 3 : Paddepoel (1968/X 37).
- fig 246 Type 7.5.2 1, 2 : Ezinge (1931/V 763, losse vondst).
- fig 247 Type 7.5.3 1 : Aalsum (1920/II 194); 2 : Paddepoel (1968/X 194).
- fig 248 Type 7.5.4 1 : Feerwerd-N (1890/VI 9); 2, 3 : Ezinge (2 x 1931/V 570).

- fig 249 Type 7.5.5 1 : Groningen-stad (1966/XII 3).
 fig 250 Type 7.5.7 1 : Garnwerd (1962/VI 3).
 fig 251 Type 7.5.6 1, 2 : Groningen-stad (1969/III 2, 3).

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- fig 252 Type 8.1.1 1, 2, 3, 4, 5, 6 : Dorkwerd
 (1908/VI 1, 1908/VII 5, 1908/VIII 23, 9,
 1909/IV 1, b1912/2.243, 244, 245).
- fig 253 Type 8.1.1 1 : Antum (1906/I 9); 2, 4, 5 :
wa-wkpt wrc Ezinge (1934/VII 1973, 1931/V 684, 1932/IV 988);
 3 : Feerwerd-Z (1971/X 58); 6 : Bauwert
 (1933/IX 13).
- fig 254 Type 8.1.1 1 : Wetsinge (1893/VI 4);
 2 : Wierum (b1912/2.535).
- fig 255 Type 8.1.2.1 1 : Aalsum (1920/II 128); 2, 3 :
 Dorkwerd (1908/IX 17, 1908/VIII 3); 4, 5, 6 :
 Feerwerd-Z (1910/I 182, 181, b1913/11.55).
- fig 256 Type 8.1.2.2 1, 2, 6 : Brilllerij (b1913/11.60,
 59, b1912/2.255); 3 : Aalsum (1920/II 130);
 4, 9, 10, 11, 12, 16 : Ezinge (1932/IV 1006,
 1931/V 683, 1925/VII 13, 1929/V 400, 328,
 1930/V 503); 5, 7 : Feerwerd-Z (1909/I 201, 200);
 8, 15 : Joeswerd (1910/I 326, 327); 13 : Wierum
 (b1912/2.536); 14 : Garnwerd (1941/XI 16^c);
 17 : Wetsinge (1893/VI 8).
- fig 257 Type 8.1.2.3 1 : Brilllerij (b1913/11.58);
 2, 3 : Dorkwerd (1909/I 46, 52); 4 : Aalsum
 (1920/II 131); 5 : Feerwerd-Z (b1913/11.56).
- fig 258 Type 8.1.2.5 1, 2, 3, 4, 5 : Garnwerd
 (1874/I 2, 1941/XI 16^b, 1892/I 9, 1897/I 5,
 1941/XI 16^d); 6 : Dorkwerd (1908/VI 1).
- fig 259 Type 8.1.2.4 1 : Aalsum (1920/II 129);
 2 : Dorkwerd (1908/VII 8).
- fig 260 Type XXIII 1 : Joeswerd (1909/VII 3).
- fig 261 Type 6.1.14.12 1 : Joeswerd (1909/II 64).

- fig 262 Type 6.3.9.10 1 : Joeswerd (1910/I 325).
 fig 263 Type 8.2 1 : Dorkwerd (1908/IX 20).
 fig 264 Type 8.3 1 : Antum (1906/I 7);
 2 : Oostum (1916/VII 7).
- fig 265 Verspreiding van de bewoning in de periode van
 600-250 vC.
 fig 266 Verspreiding van de bewoning in de periode van
 250-50 vC.
 fig 267 Verspreiding van de bewoning in de periode van
 50 vC-300 nC.
 fig 268 Verspreiding van de bewoning in de periode van
 300-750 nC.
 fig 269 Verspreiding van de bewoning in de periode van
 750-1000 nC.
 fig 270 Verspreiding van de bewoning in de periode van
 1000-1300 nC.
 fig 271 Verspreiding van de bewoning omstreeks 1830.
 fig 272 Verspreiding van de bewoning in 1975.
 fig 273 Begrenzing van de Middeleeuwse kerspelen.
 fig 274 Territoriale eenheden of dorpsgebieden
 in de Romeinse tijd.

Kaartjes 1 : 2500

- kaart 1 6Fz7 : Almaheerd
 2 7Az2 : Balmhuizen
 3 7Az13 : Mollenest
 4 7Az21 : Frytum
 5 7Az34 : Franssum
 6 7Az39 : Joeswerd
 7 7Az48 : Oostum
 8 7Az53 : Niehove
 9 7Az56 : Roetsum
 10 7Az63 : Barwerd
 11 7Az67 : Hardeweer
 12 7Az71 : Aduarderheerd

kaart 13 7Az73 : Beswerd I; 7Az75 : Beswerd II
14 7Az77 : Maiden
15 7Az79 : Brillertij
16 7Az90 : Enum
17 7Az91 : Selwerd
18 7Az93 : Abelmaheerd
19 7Az103 : Zuiderweg 103
20 7Az105 : Zuiderweg 105
21 7Az107 : Loeswerd
22 7Az117 : Krassum
23 7Az122 : Aalsum
24 7Az123 : Kenwerd
25 7Az131 : Bauwert
26 7Az137 : Feerwerd-N; 7Az138 : Feerwerd-C
27 7Az138 : Feerwerd-C; 7Az139 : Feerwerd-Z
28 7Az145 : Garnwerd
29 7Az152 : Englum I
30 7Az153 : Englum II
31 7Az155 : Saaksum
32 7Az161 : Ezinge
33 7Az166 : Feerwerd-O
34 7Az171 : Antum
35 7Bz21 : Adorp II
36 7Bz23 : Adorp I
37 7Bz63 : Hoge Wierde
38 7Bz66 : Spoorwegterp I; 7Bz67 : Spoorwegterp II
39 7Bz99 : Sauwerd
40 7Bz103 : Arwert
41 7Bz132 : Schellingeheerd
42 7Bz133 : Wetsinge I
43 7Bz134 : Wetsinge II
44 7Bz153 : Valcum
45 7Bz169 : Westerdijkshorn-N
46 7Bz177 : Thyum

- kaart 47 7Bn1 : Bellingeweer I
48 7Bn3 : Bellingeweer II
49 7Bn10 : Onderwierum; 7Bn11 : Onderwierum;
 7Bn27 : Onderwierum
50 7Bn32 : Boschhoeve
51 7Cn102 : Kleiwerd
52 7Cn117 : Langeweer
53 7Cn151 : Franssumer Voorwerk
54 7Cn152 : Dageraad
55 7Dn14 : Dorkwerd
56 7Dn33 : Enens
57 7Dn36 : Selwerderdiepterp
58 7Dn37 : Harsensbosch
59 7Dn41 : Nienhuis
60 7Dn51 : Wierum

Kaart 1 : 25.000 (los bijgevoegd)

- 61 Ligging van de Archeologische Monumenten



fig 1 Locatie van het onderzoeksgebied.
1:1

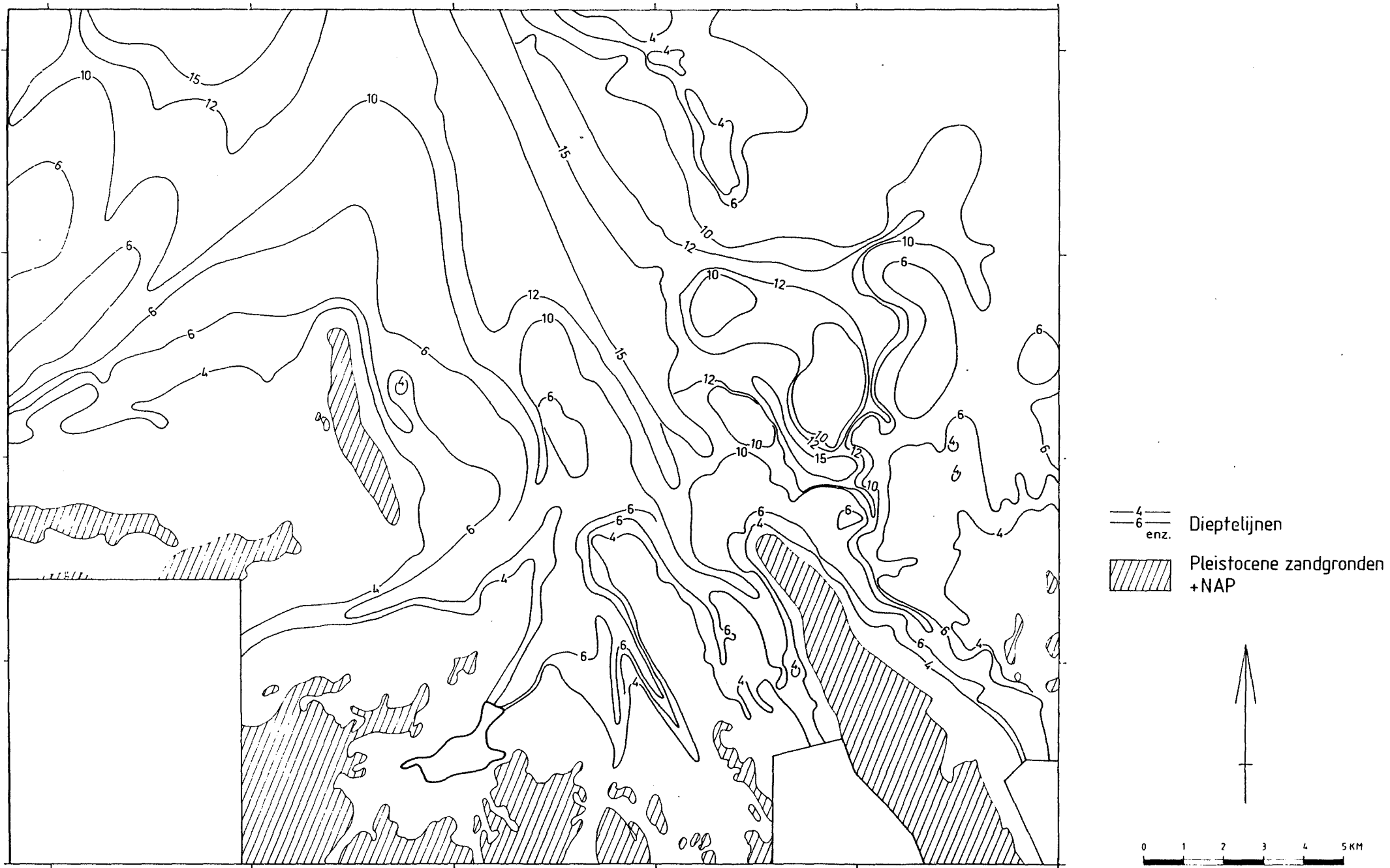


fig 2 Dieptelijnenkaart van de pleistocene ondergrond in het onderzoeksgebied (naar Roeleveld fig 4).

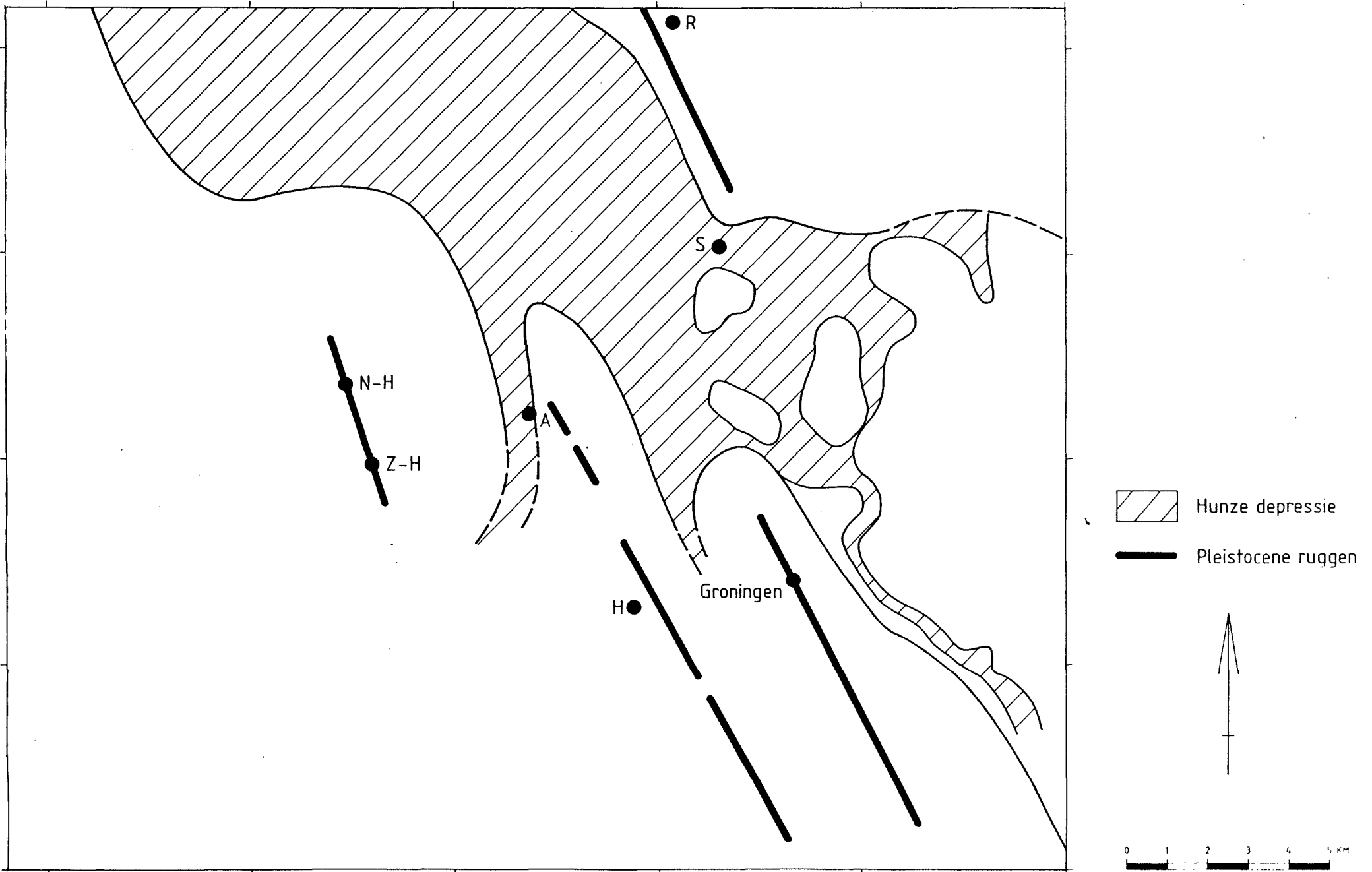


fig 3 Morfologische onderverdeling van het pleistocene oppervlak in het onderzoeksgebied (Roelleveld fig 9).

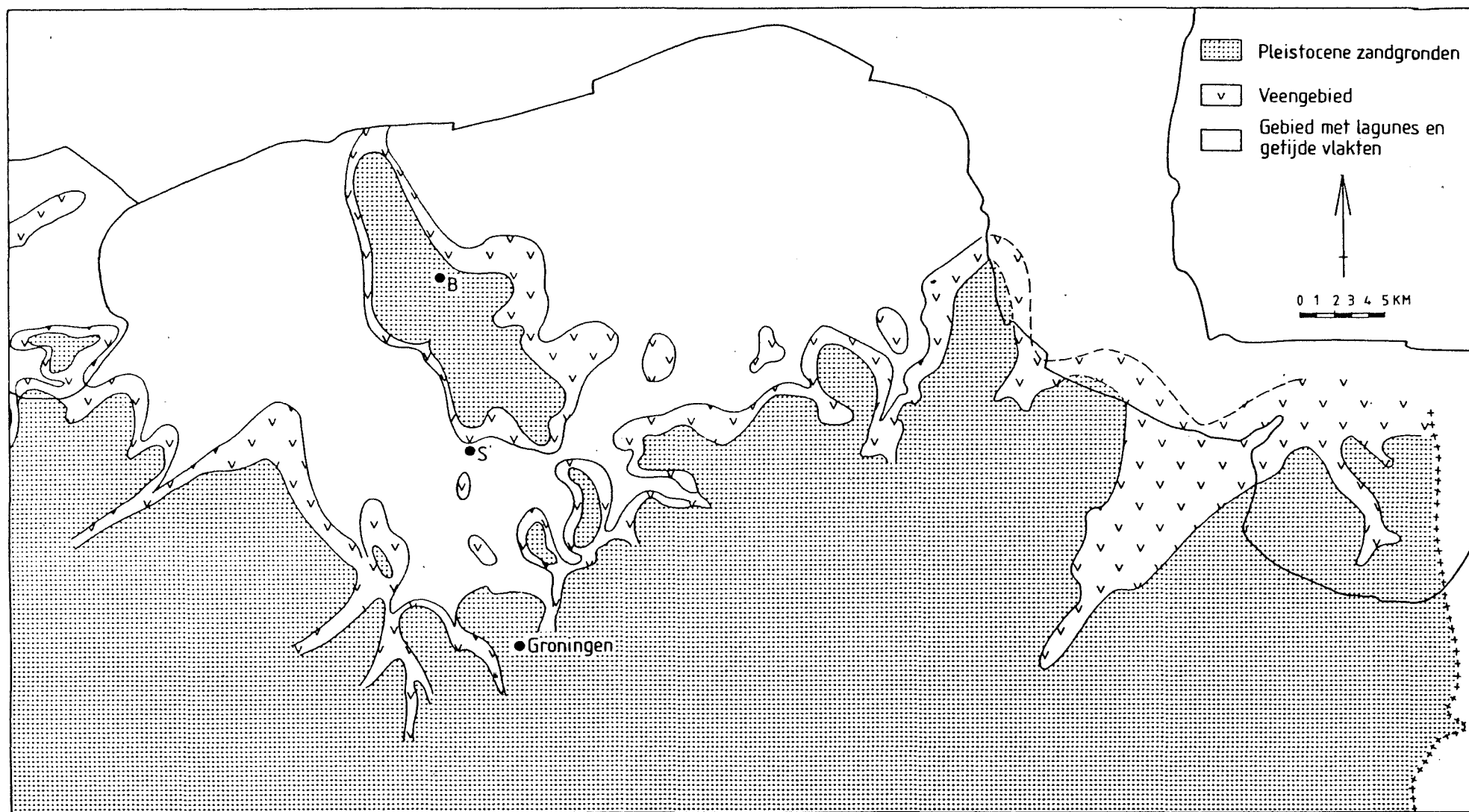


fig 4 Palaeogeografische reconstructie van het Groningse kustgebied omstreeks 6600 ^{14}C y v h (naar Roeleveld fig 57).

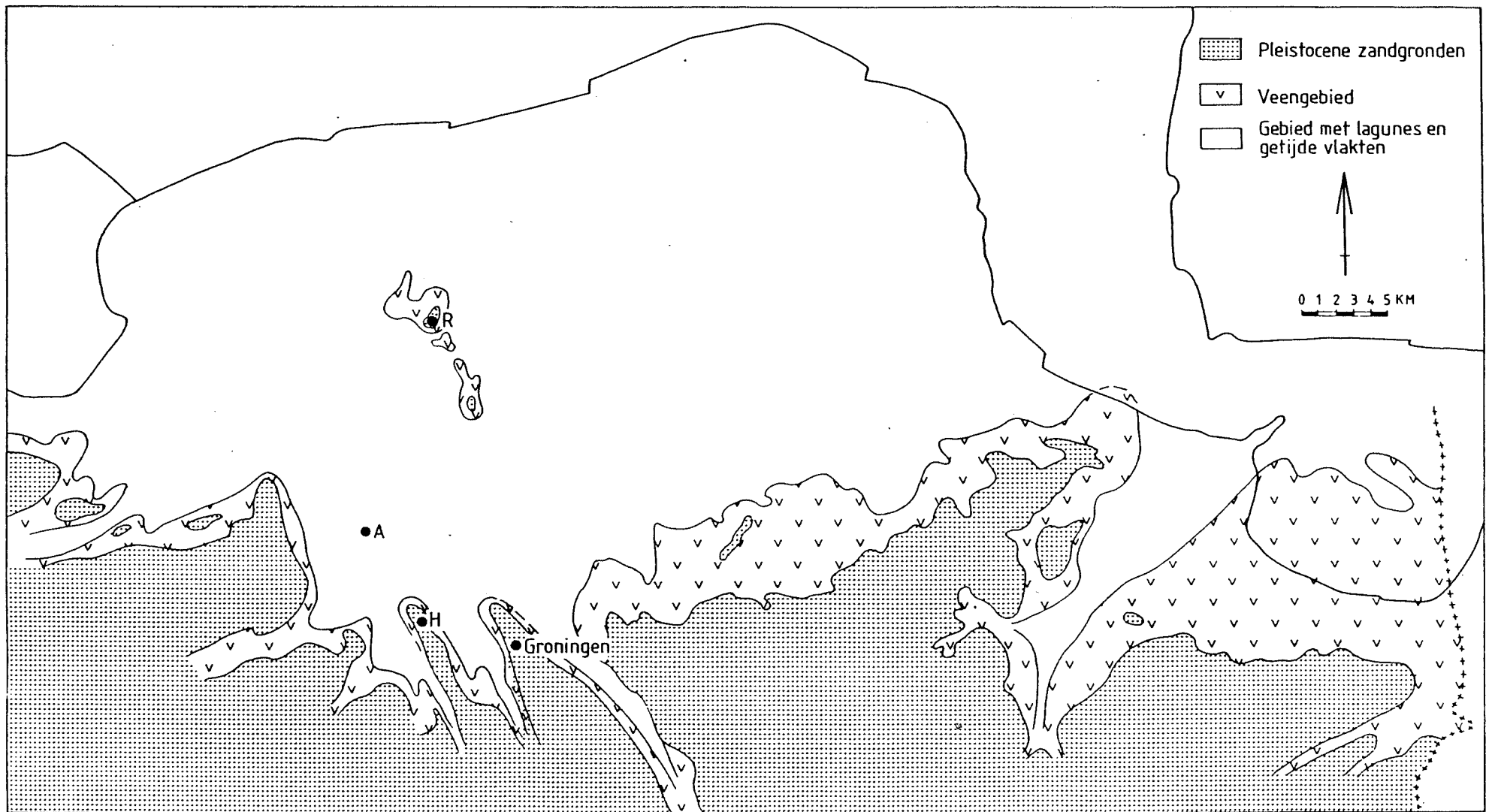


fig 5 Palaeogeografische reconstructie van het Groningse kustgebied omstreeks 4400 ¹⁴C y v h (naar Roeleveld fig 59).

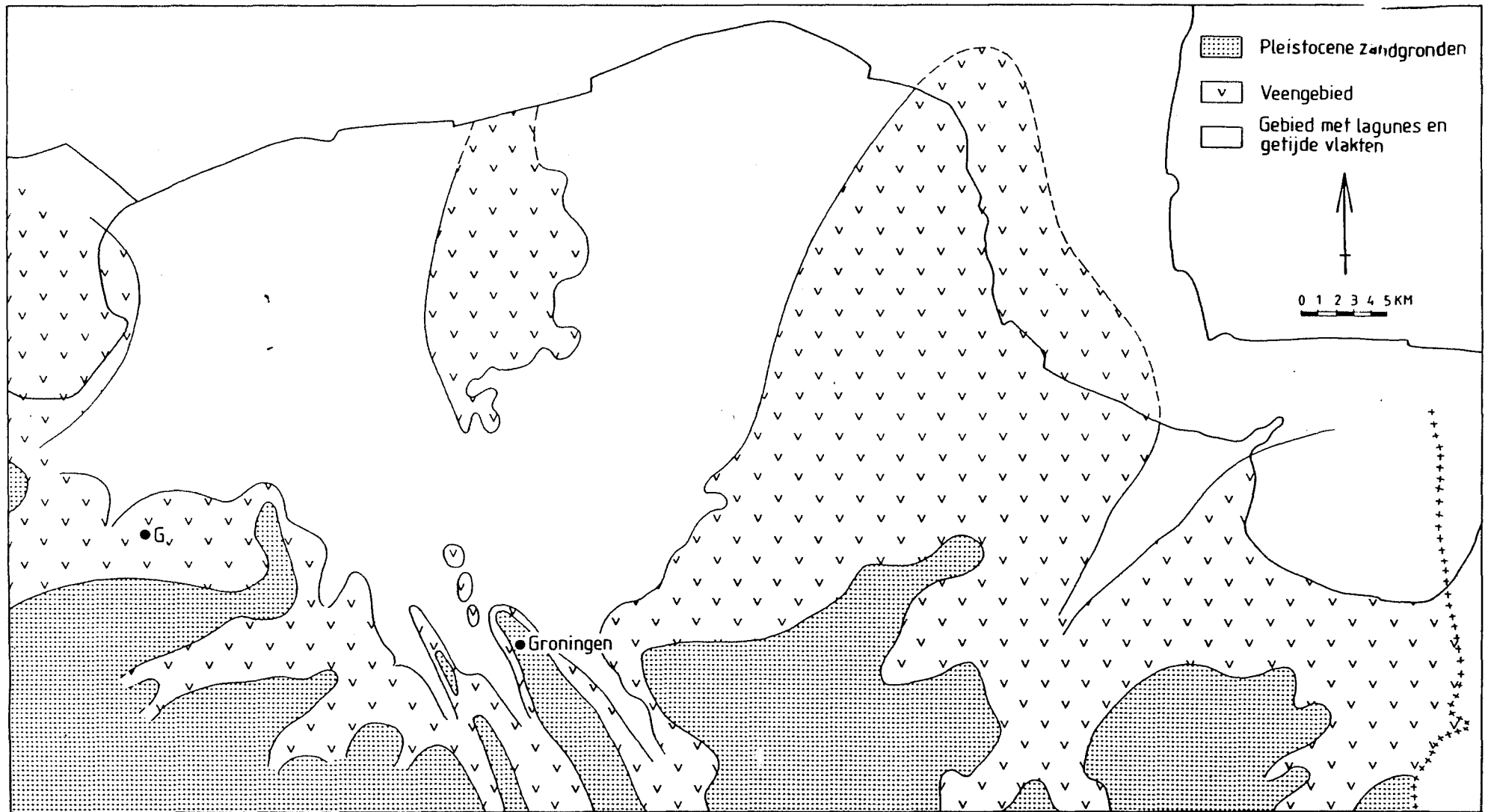


fig 6 Palaeogeografische reconstructie van het Groningse kustgebied omstreeks 3200 ¹⁴C y v h (naar Roeleveld fig 62).

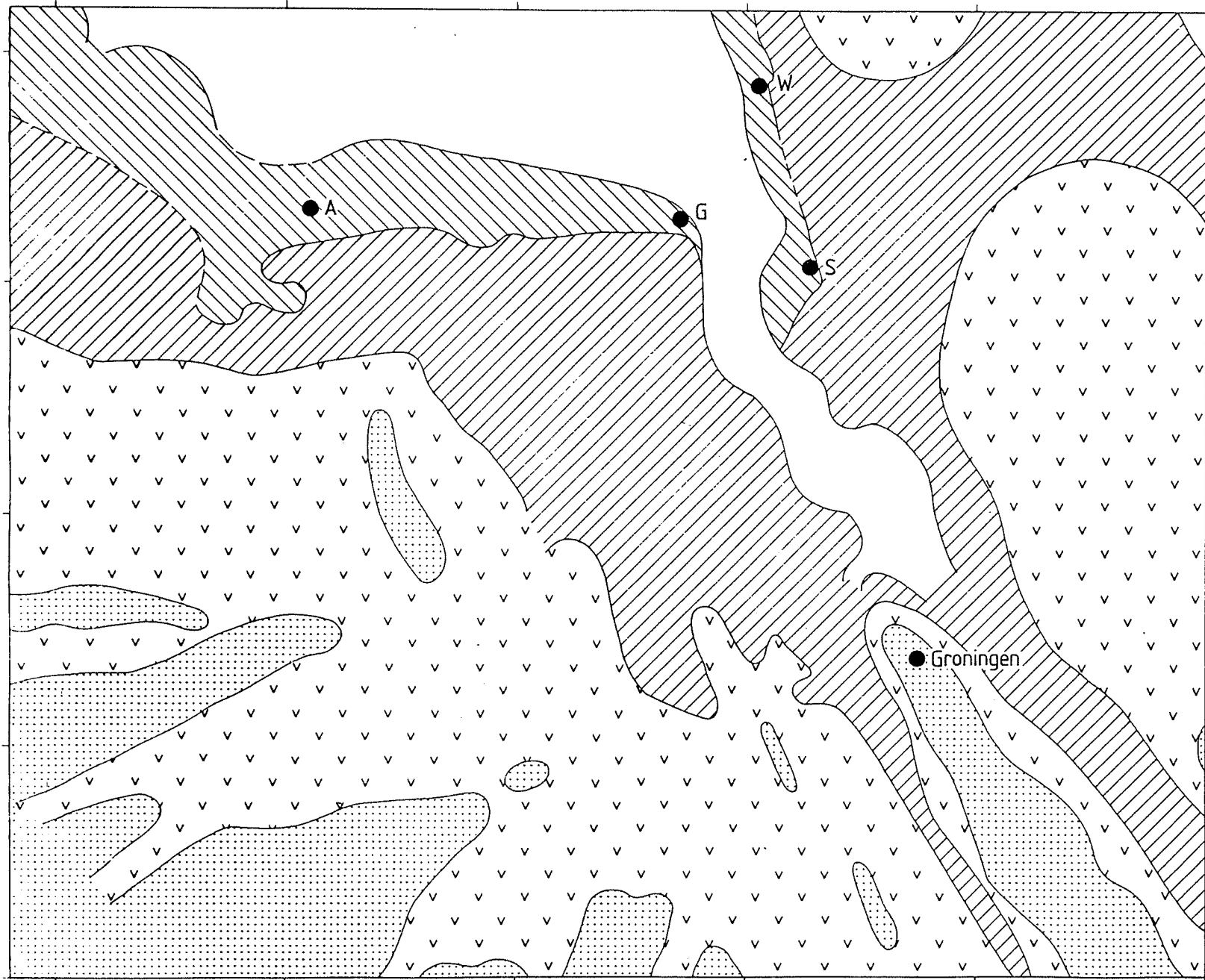


fig 7 Palaeogeografische reconstructie van het onderzoeksgebied omstreeks 2600 ¹⁴C y h (naar Roeleveld fig 63).

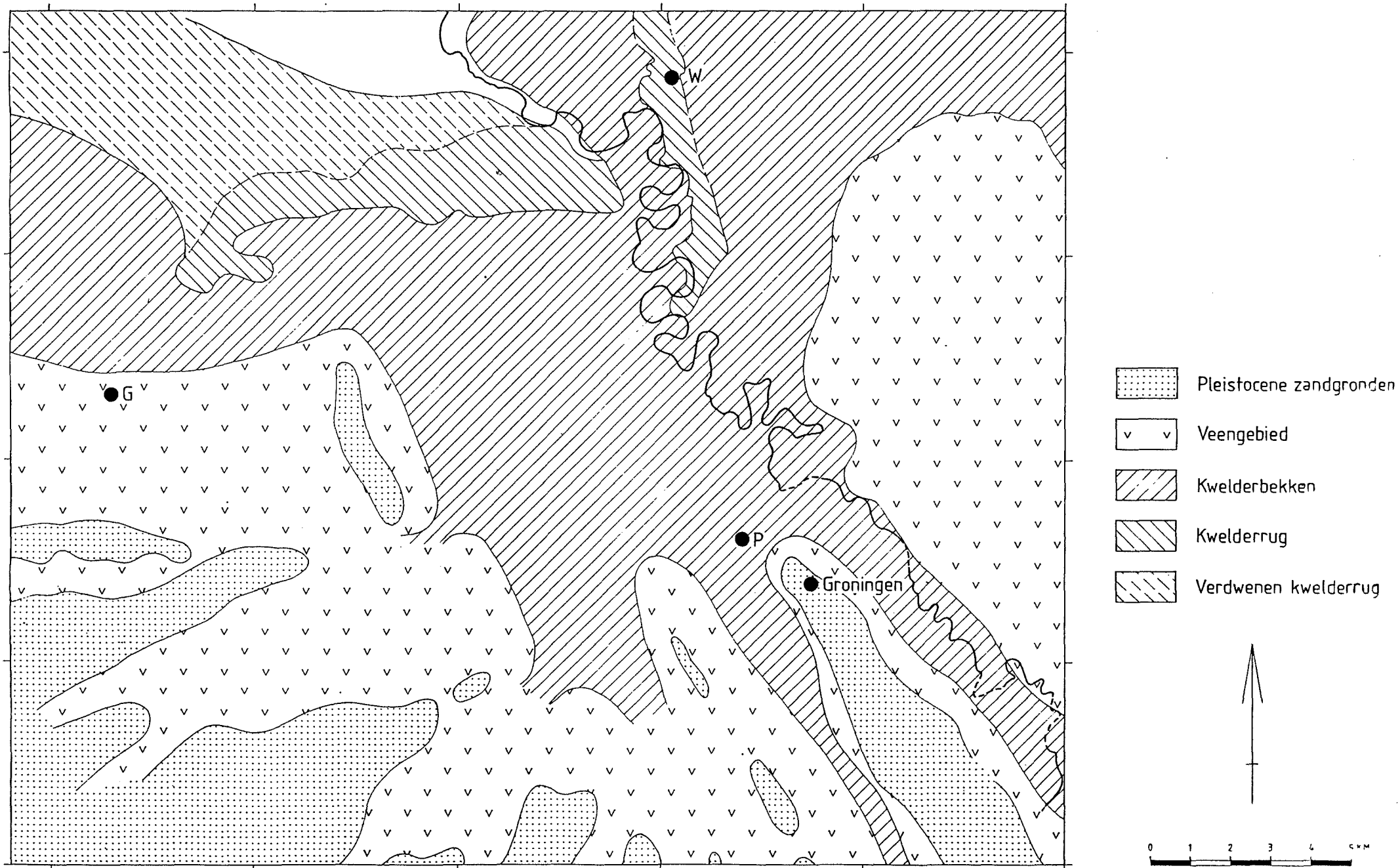


fig 8 Palaeogeografische reconstructie van het onderzoeksgebied omstreeks 2000 ^{14}C y v h (naar Roeleveld fig 64).

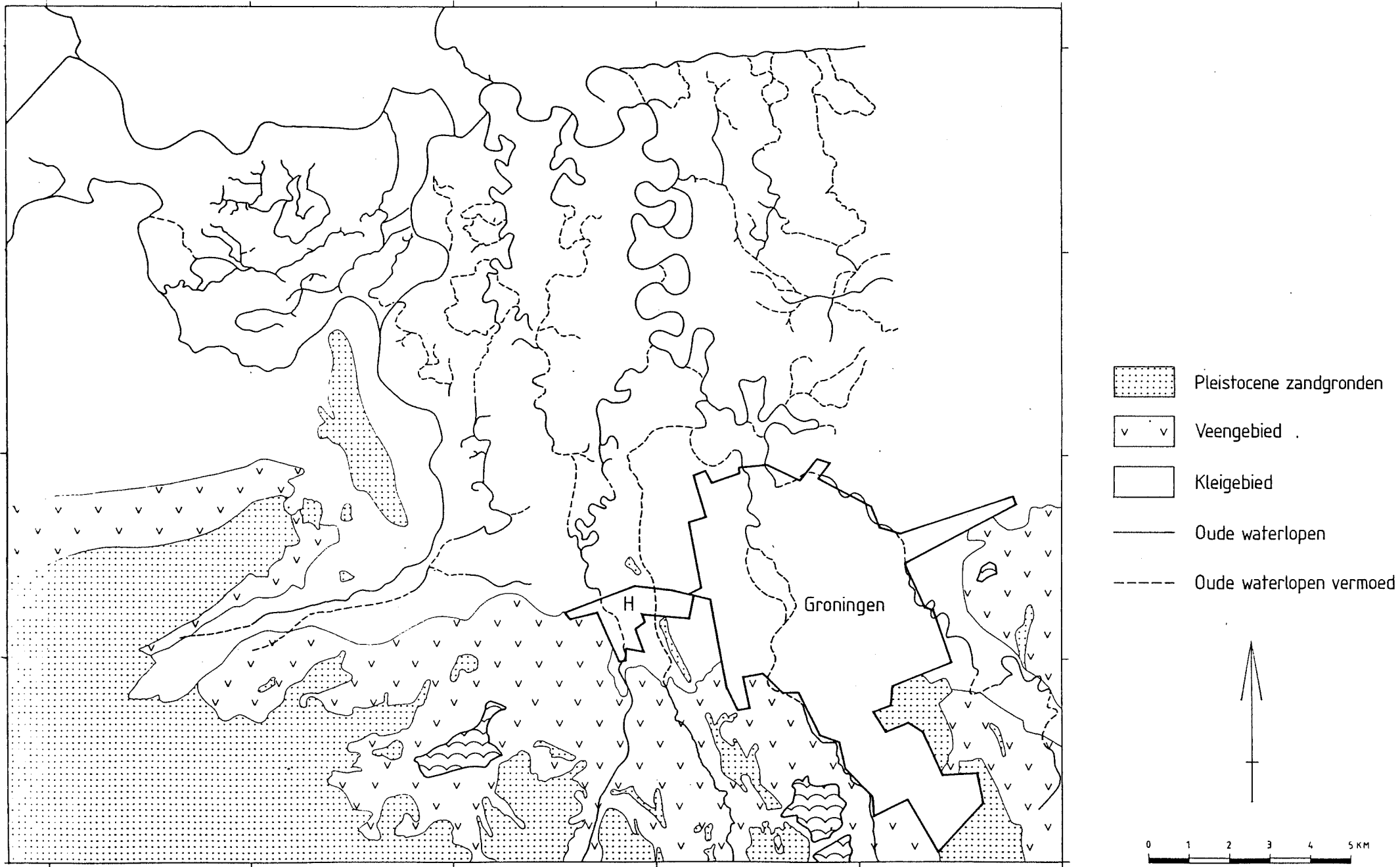
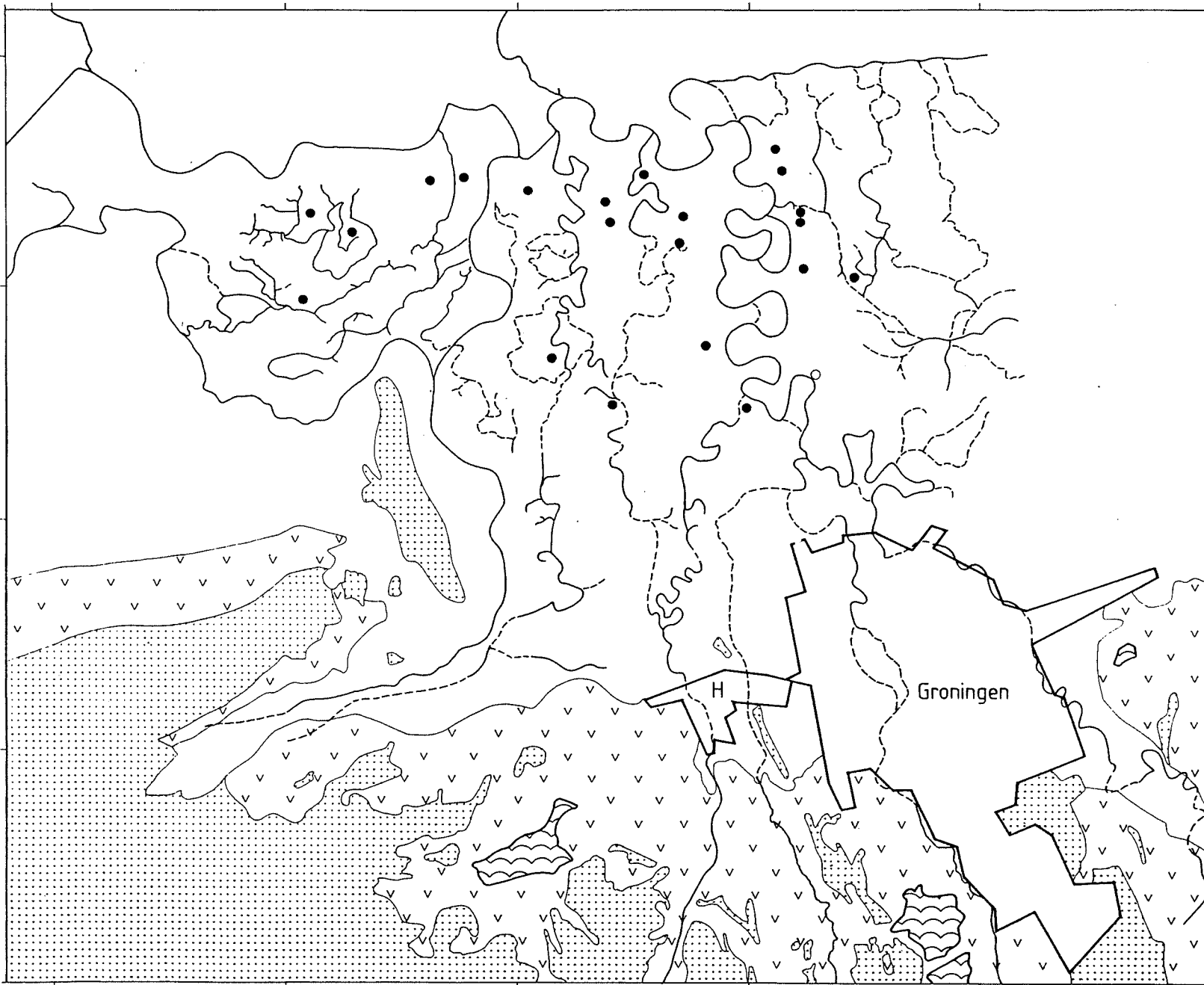







fig 9 Reconstructie van de oude waterlopen.



-  Pleistocene zandgronden
-  Veengebied
-  Kleigebied
-  Oude waterlopen
-  Oude waterlopen vermoed

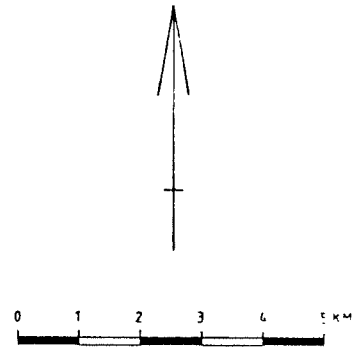


fig 10 Verspreiding en ligging van de Grote dorpsterpen, type 1a.

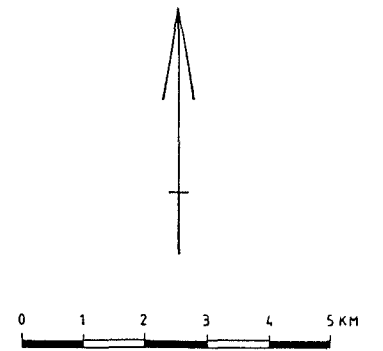
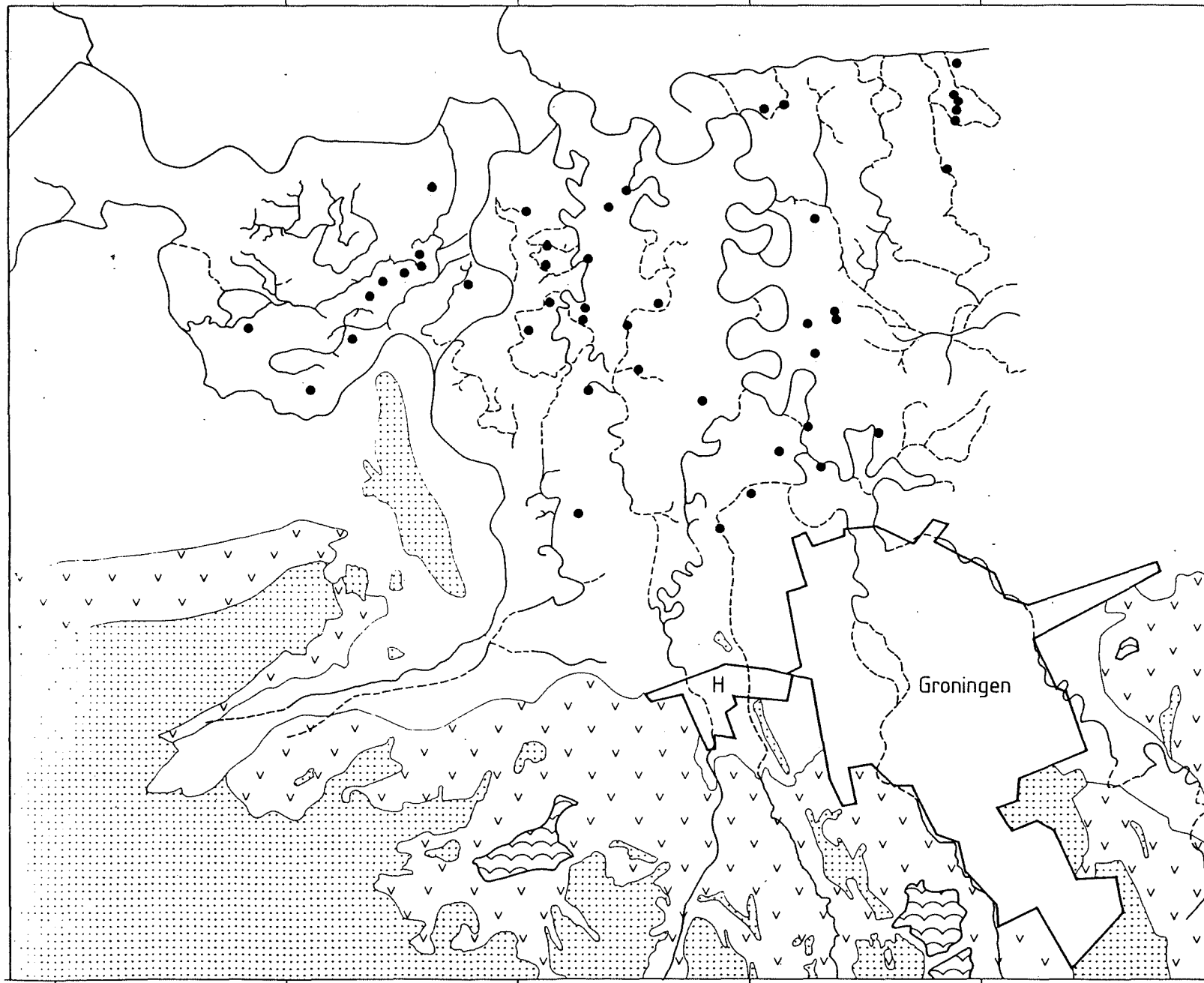


fig 11 Verspreiding en ligging van de Kleine dorpsterpen, type 1b.

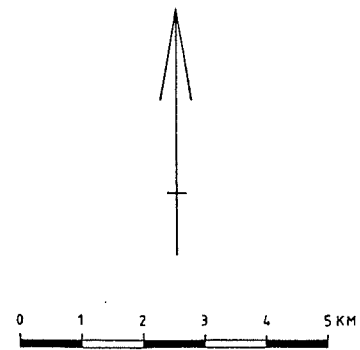
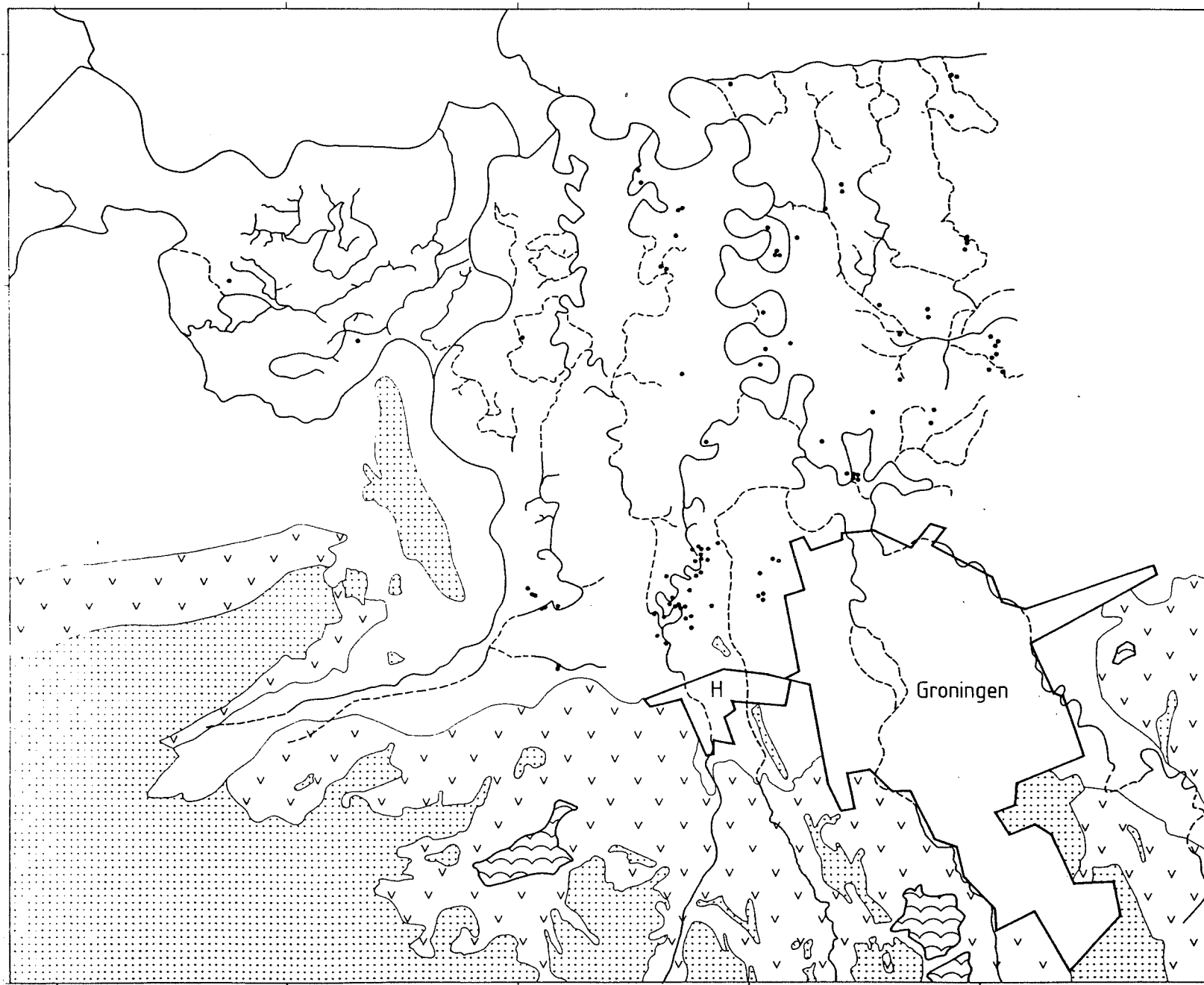


fig 12 Verspreiding en ligging van de Oudtijds verlaten huisterpen, type 2a.

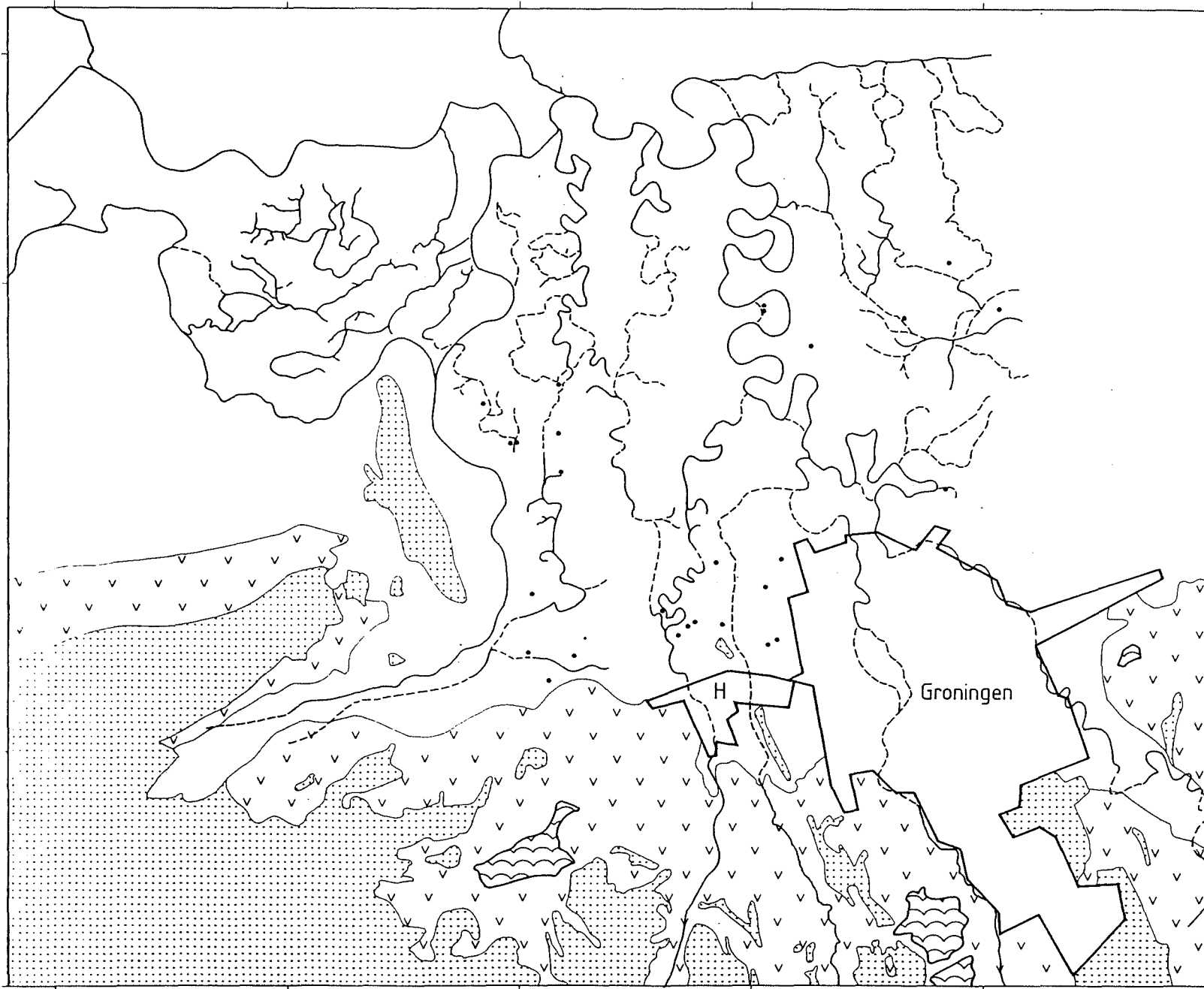


fig 13 Verspreiding en ligging van de Recent verlaten huisterpen, type 2b.

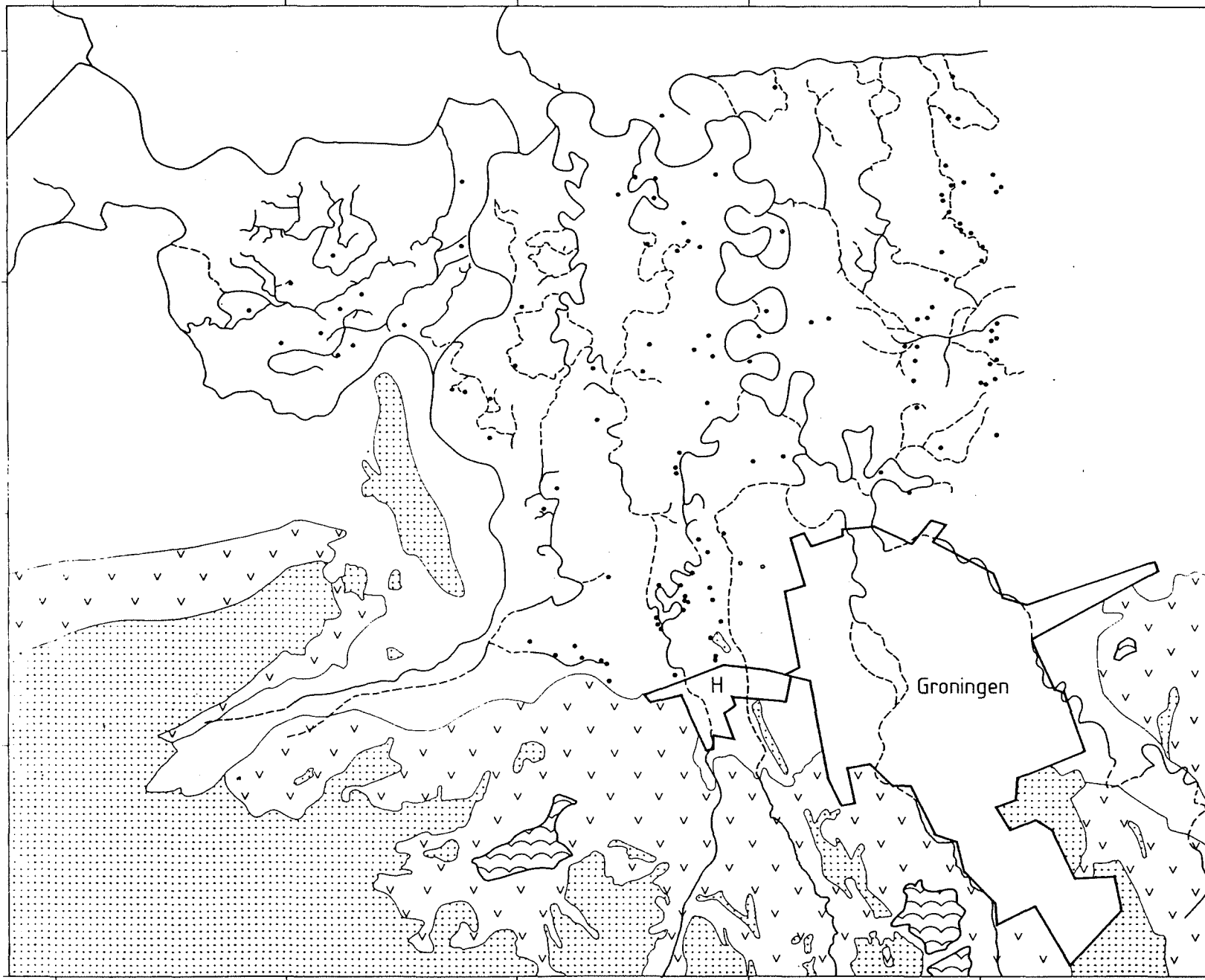


fig 14 Verspreiding en ligging van de Bewoonde huisterpen, type 2c.

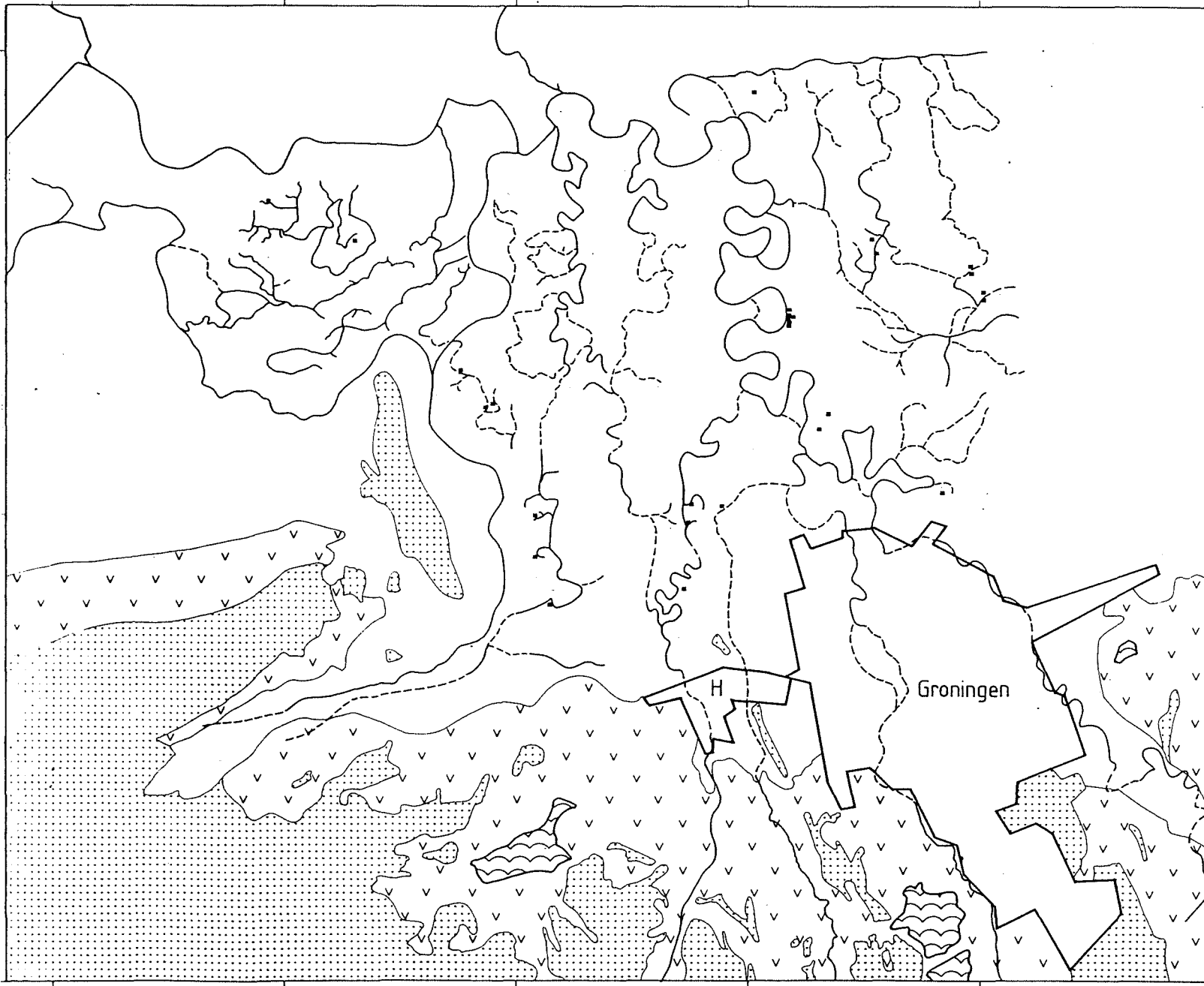


fig 15 Verspreiding en ligging van de Oudtijds verlaten boerderijplaatsen, type 3a.

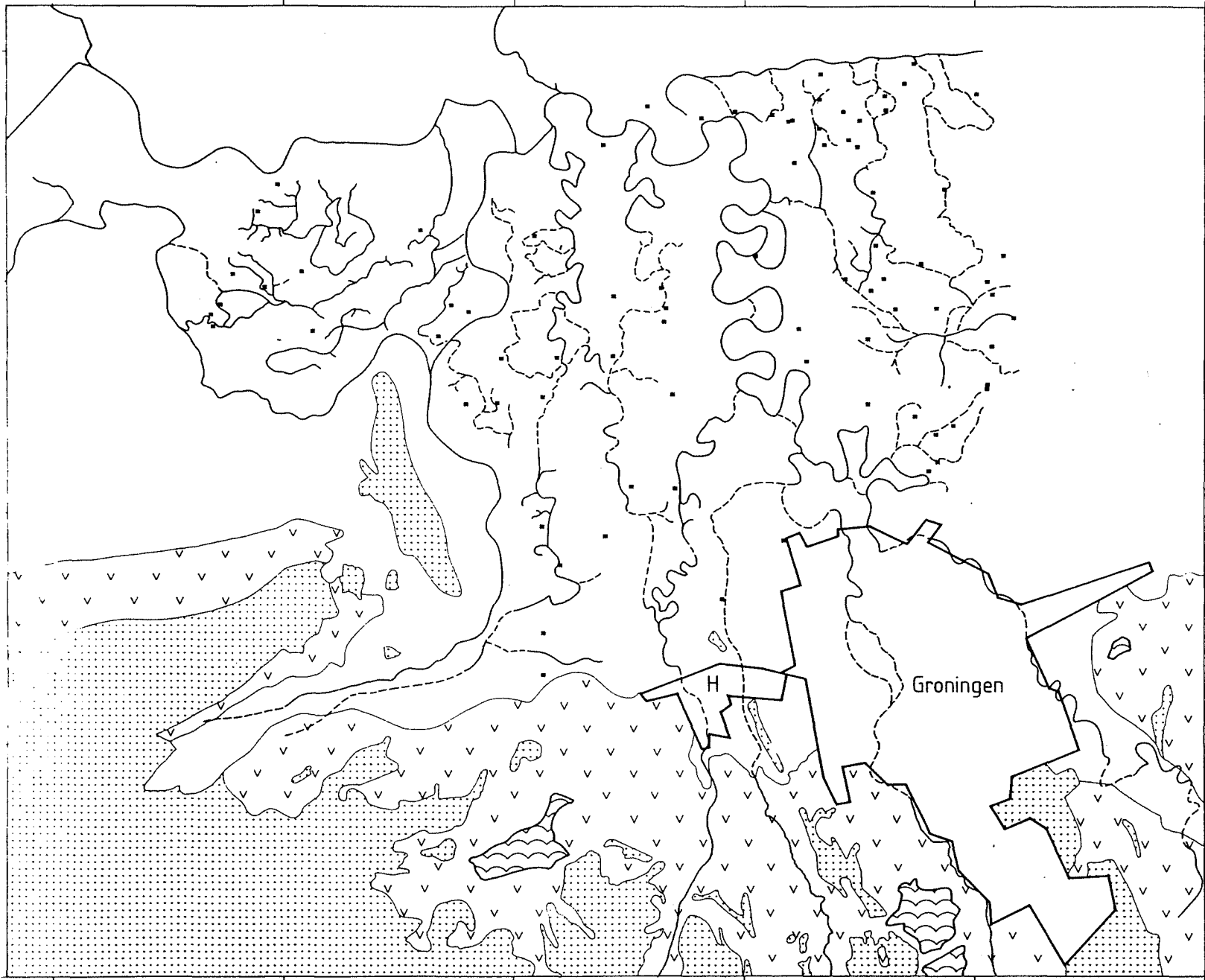


fig 16 Verspreiding en ligging van de Recent verlaten boerderijplaatsen, type 3b.

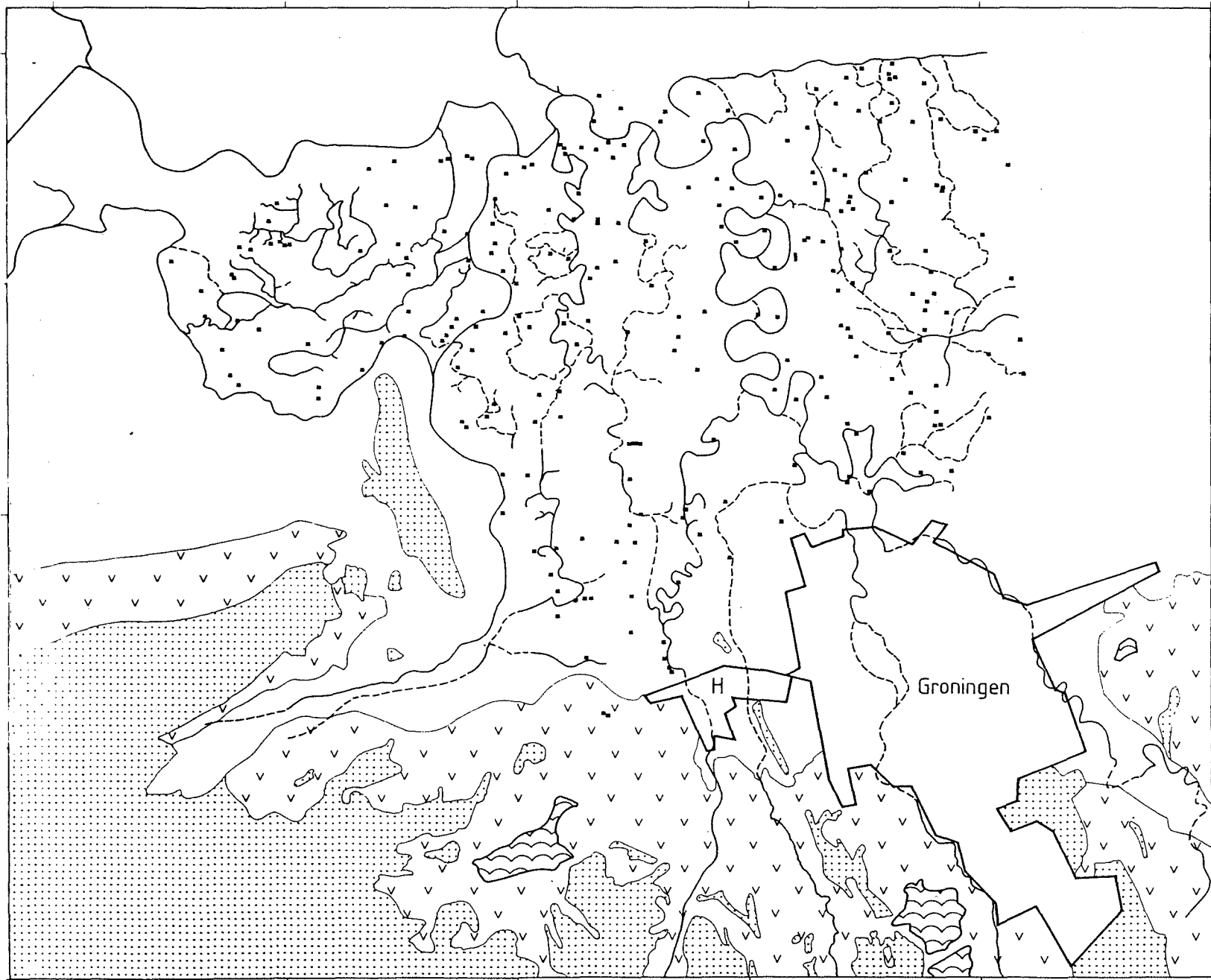
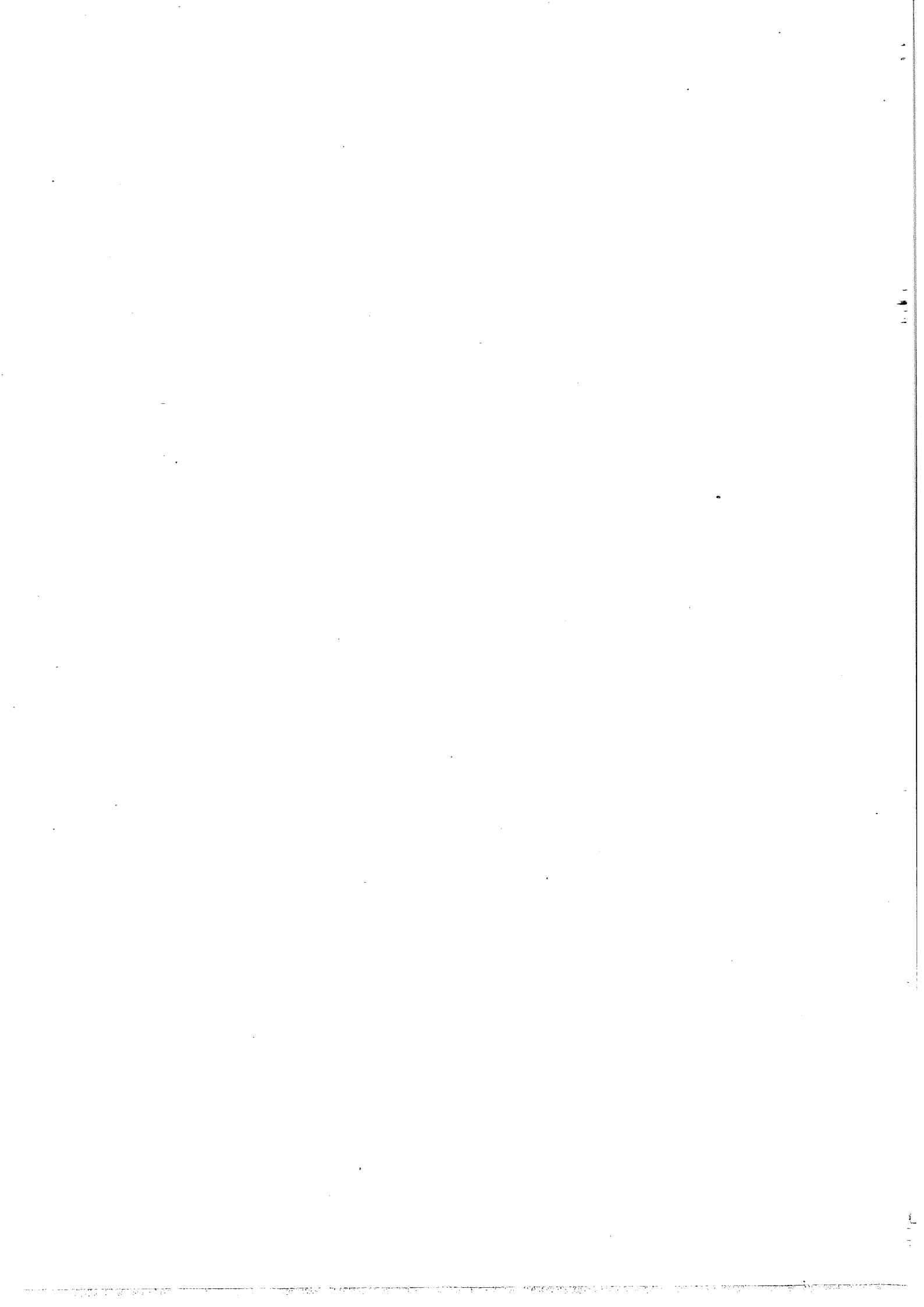


fig 17 Verspreiding en ligging van de Bewoonde boerderijplaatsen, type 3c.



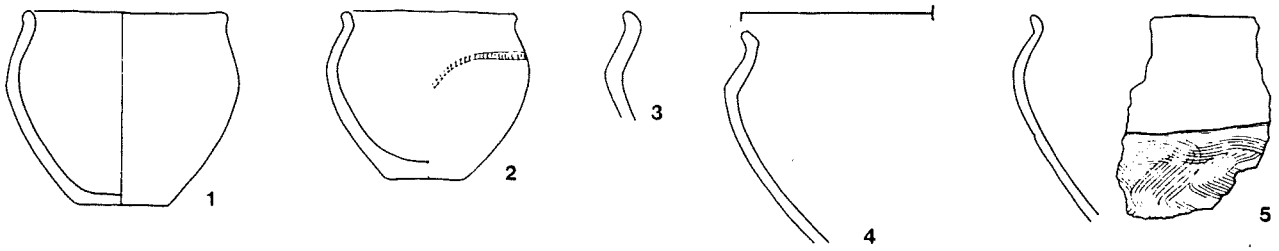


fig 18 Type IA1
1 : Aalsum; 2, 3, 5 : Wierum; 4 : Feerwerd-N.

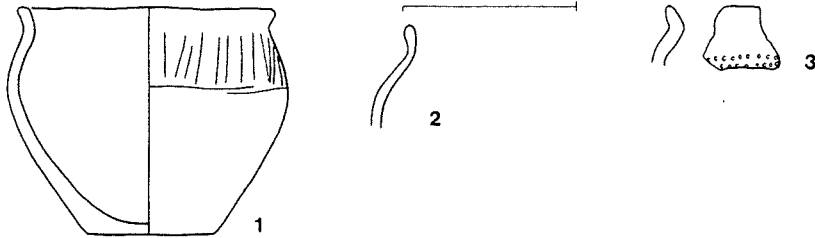


fig 19 Type IA2.
1 : Garnwerd; 2 : Wierum; 3 : Aalsum.

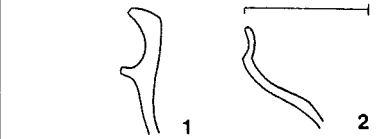


fig 20 Type IC.
1 : Aalsum; 2 : Wierum.

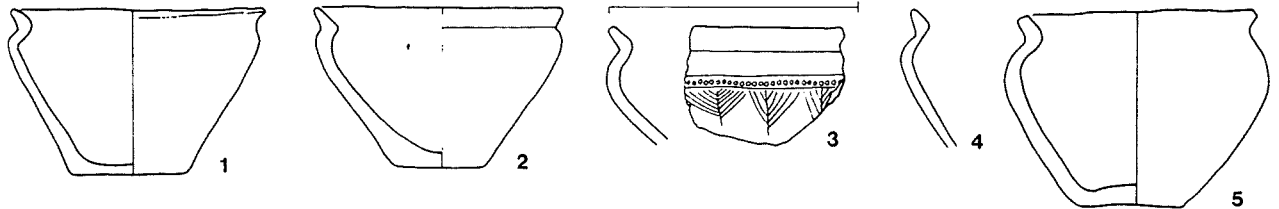


fig 21 Type IB1.
1 : Feerwerd-Z.; 2 : Garnwerd; 3 : Brillerij; 4 : Antum; 5 : Feerwerd-N.

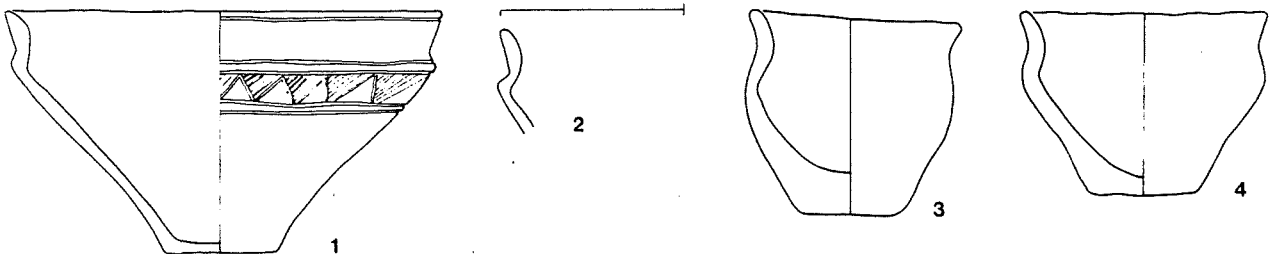


fig 22 Type IB2.
1 : Brillerij; 2, 4 : Wierum; 3 : Dorkwerd.

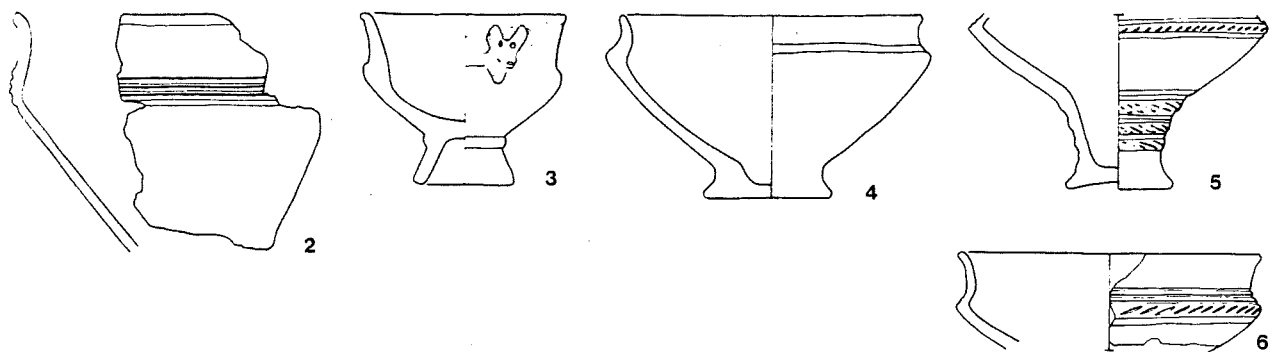


fig 23 Type ID.
1 : Brillerij; 2 : Feerwerd-N.; 3, 4, 5 : Oostum.

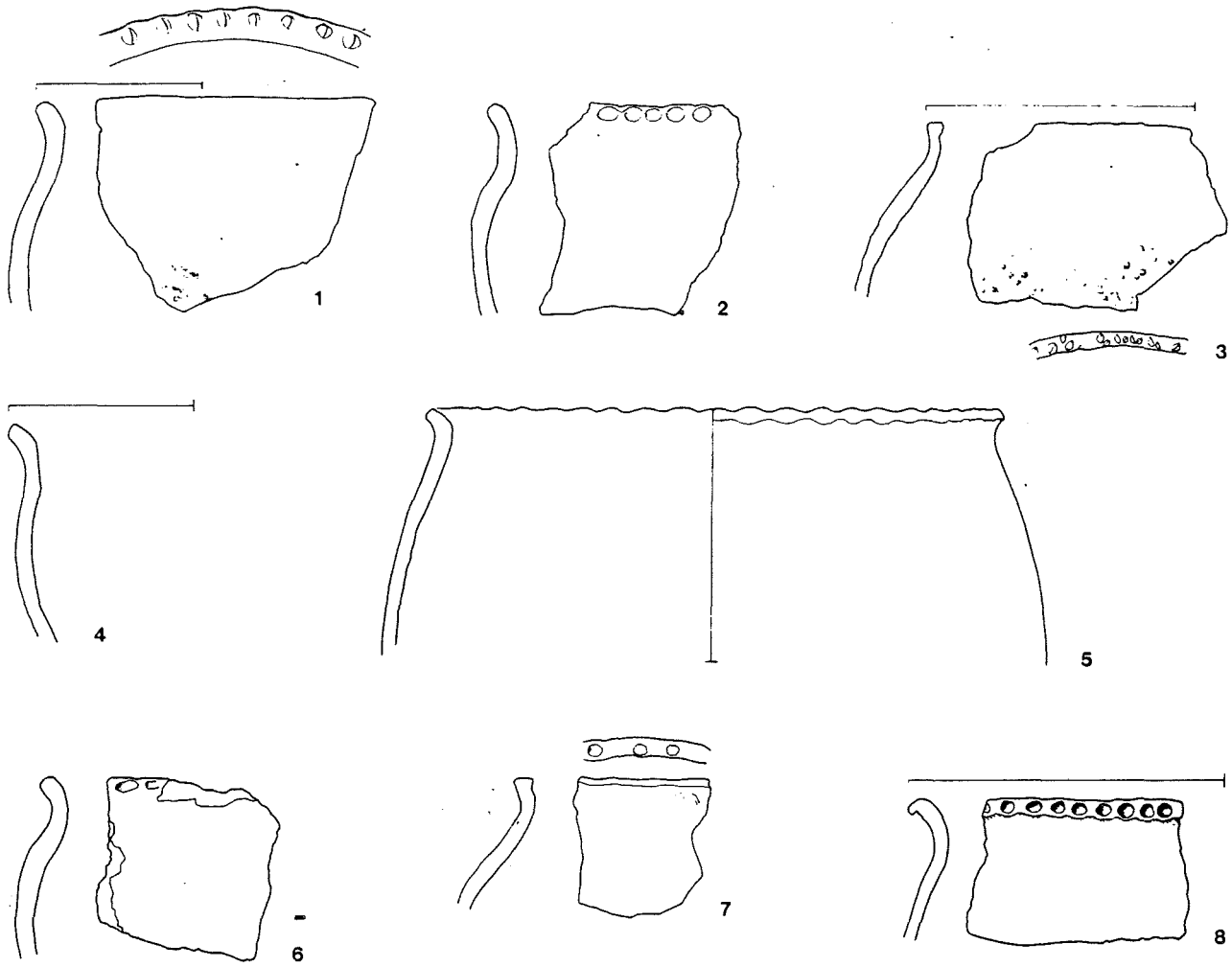


fig 24 Type IIA.
 1, 2, 4, 5, 6 : Wierum; 3, 7, 8 : Brillerij.

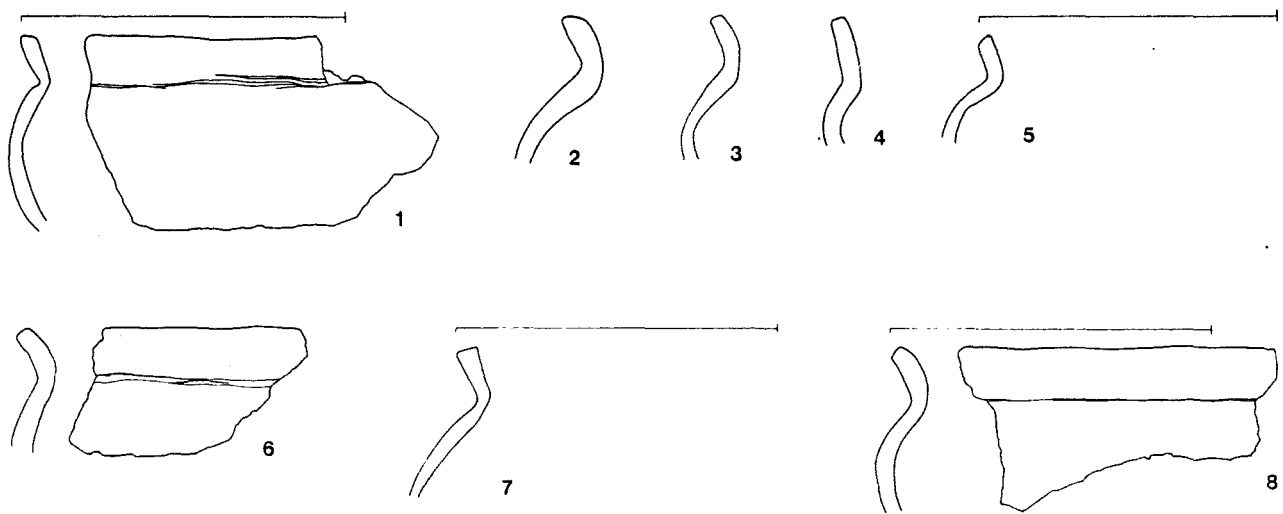


fig 25 Type IIB1.
 1, 3, 6, 8 : Brillerij; 2, 4, 5, 7 : Wierum.

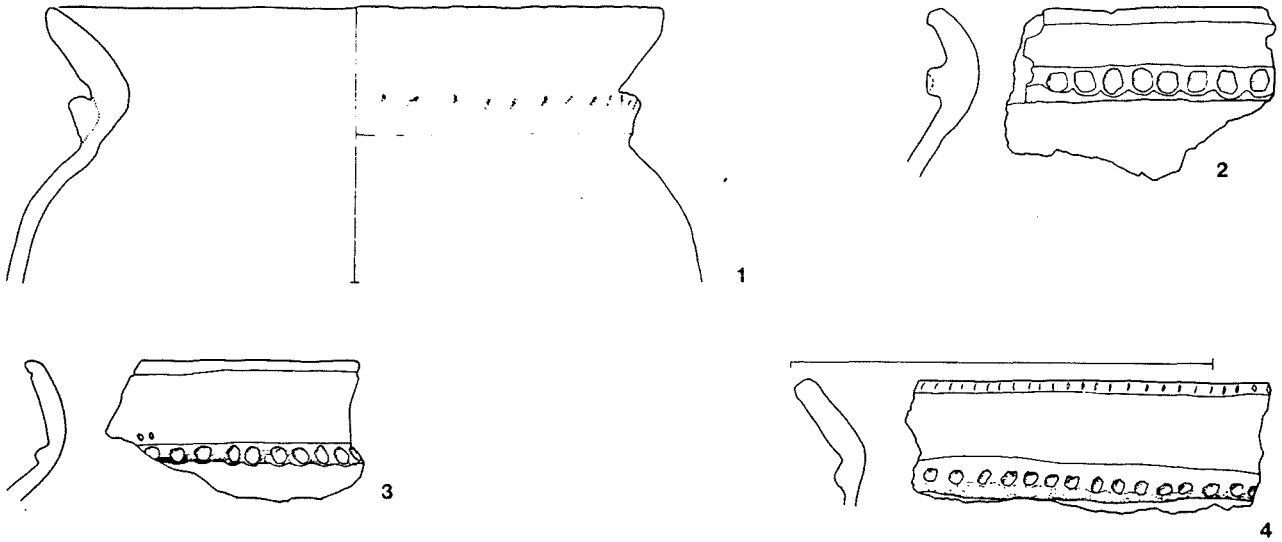


fig 26 Type IIB2.
1 : Aalsum; 2 : Dorkwerd; 3, 4 : Brillerij.

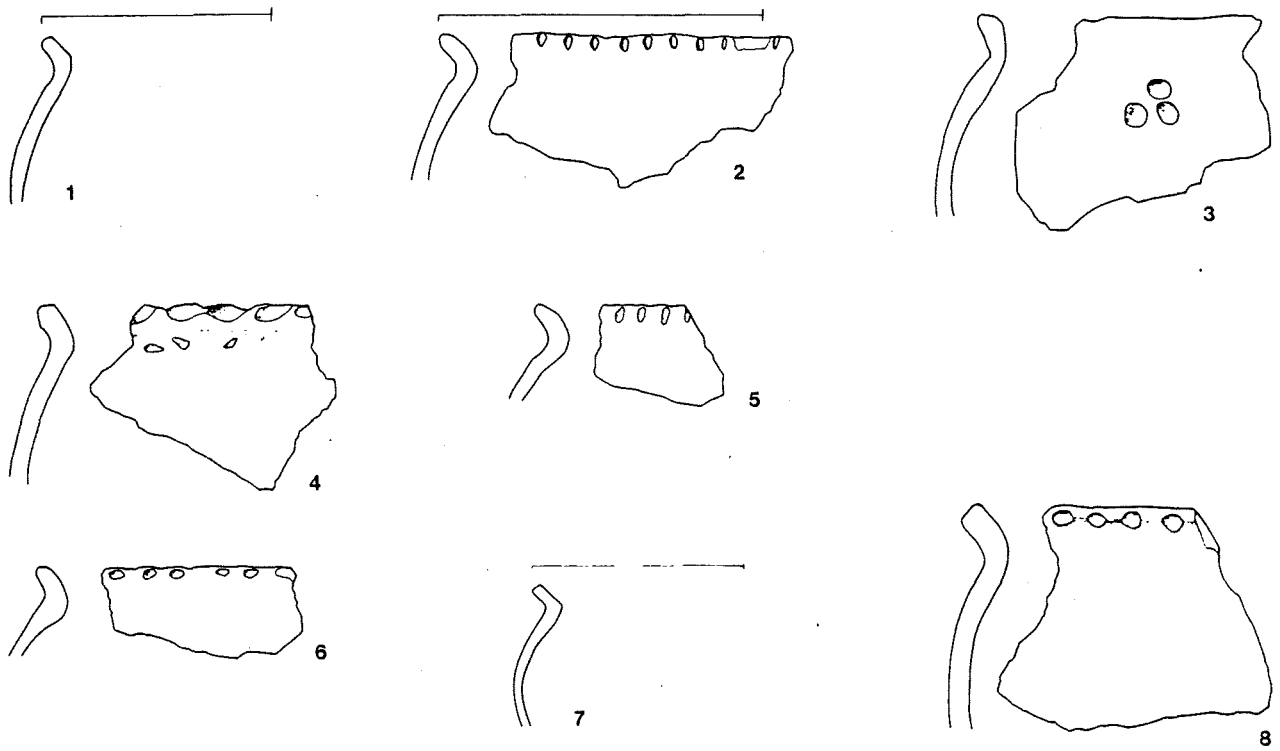


fig 27 Type IIC1.
1, 2, 4, 5, 6, 7 : Wierum; 3 : Brillerij; 8 : Dorkwerd.

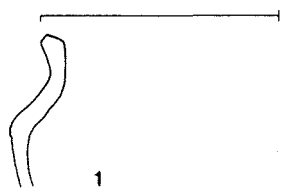


fig 28 Type IID.
1 : Wierum.

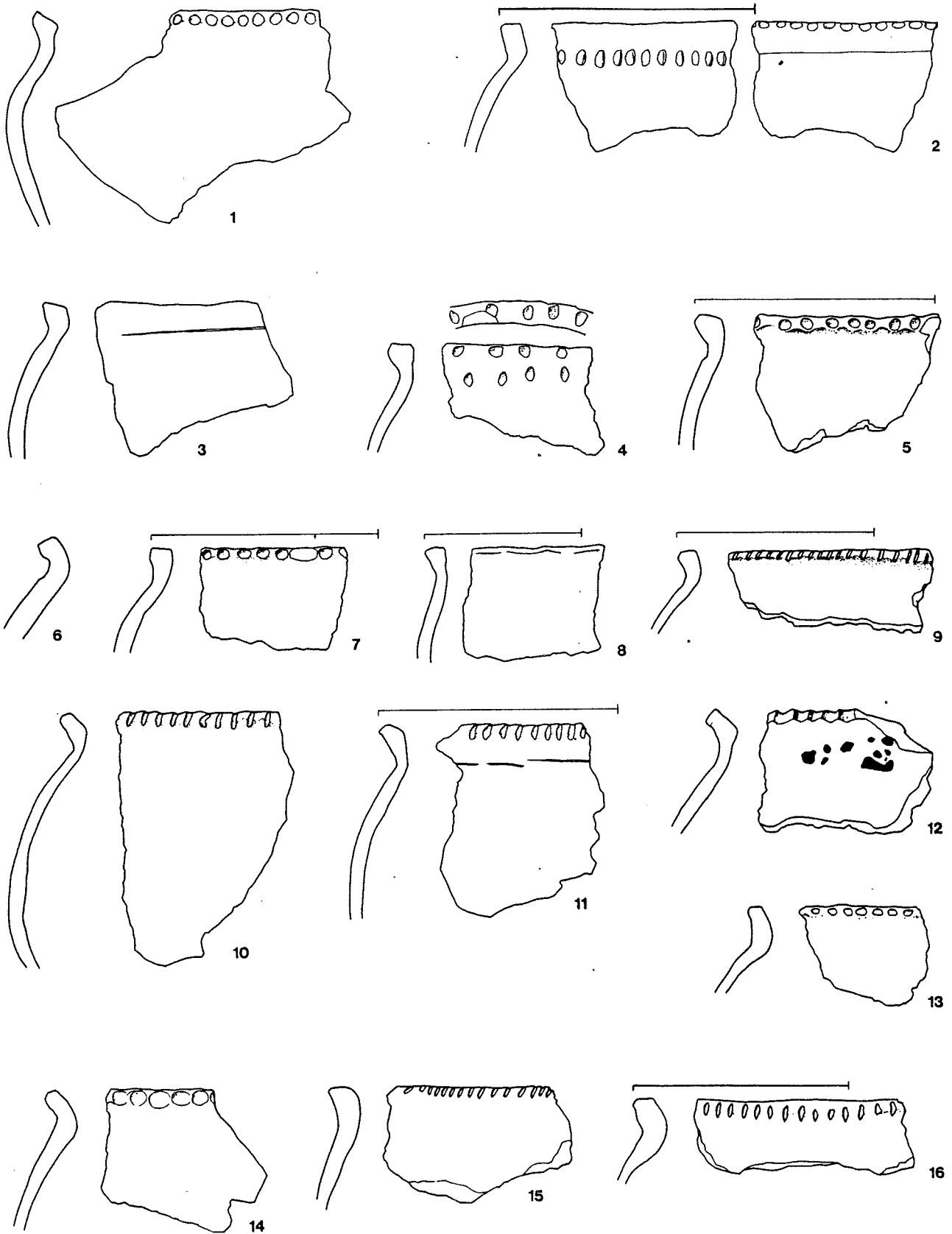


fig 29 Type IIC2.

1, 2, 3 : Feerwerd-N.; 4 : Garnwerd; 5, 6, 9, 12, 13, 15, 16 : Brillერი; 7, 8, 10, 11, 14 : Wierum.

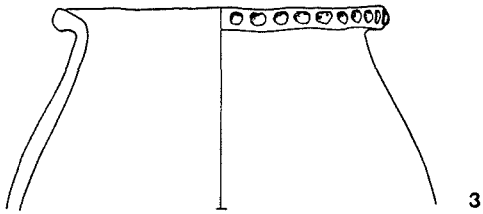
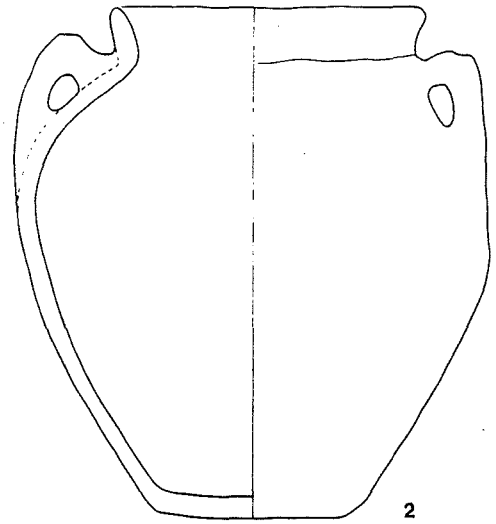
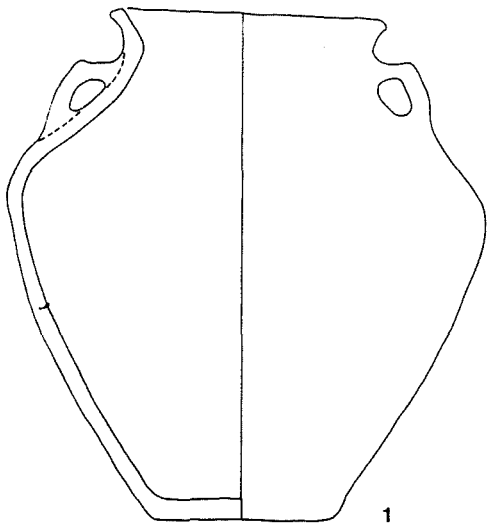


fig 30 Type IIIA1.
1 : Antum; 2 : Aalsum; 3 : Brillerij.

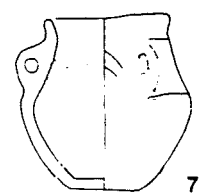
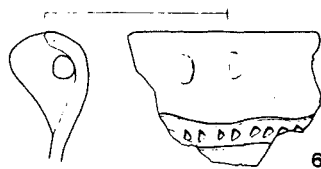
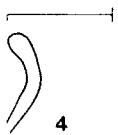
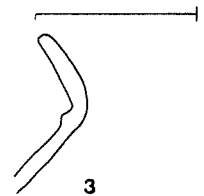
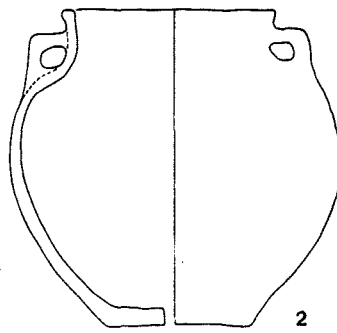
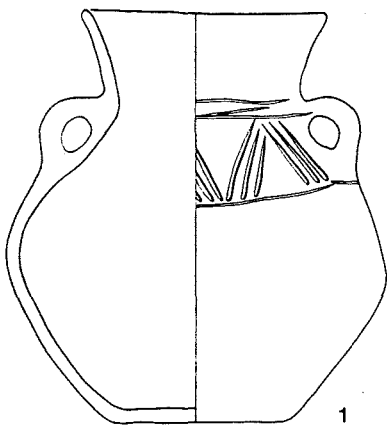


fig 31 Type IIIB.
1 : Oostum; 2, 6 : Brillerij; 3, 4, 5 : Wierum; 7 : Feerwerd-N.

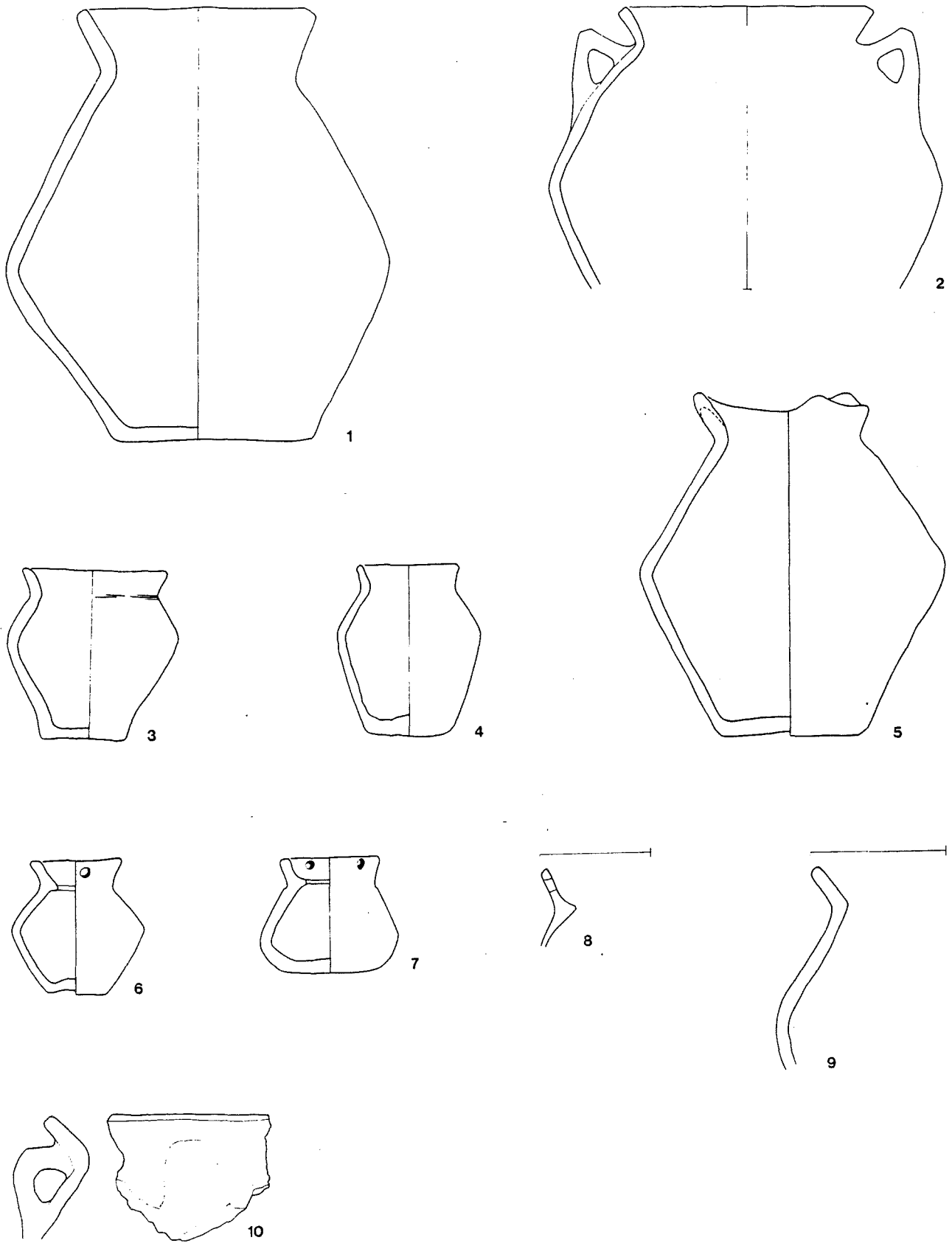
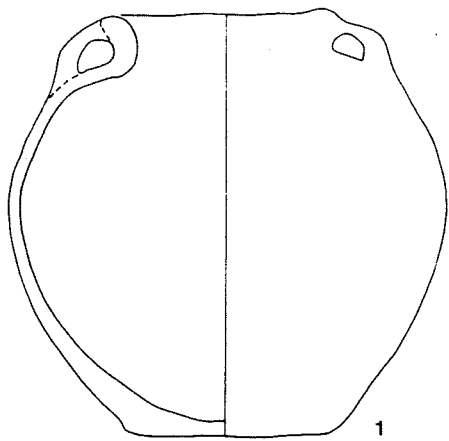
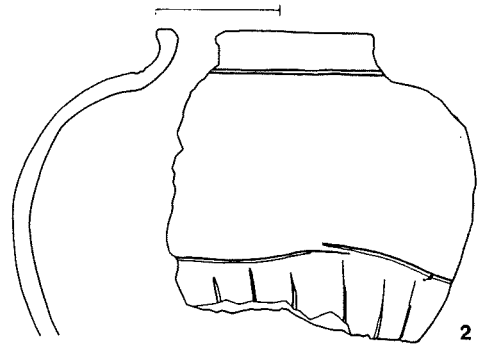


fig 32 Type IIIA2.

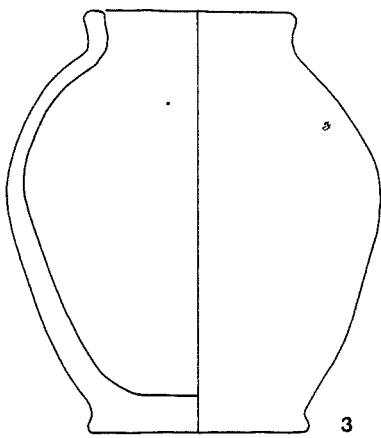
1 : Joeswerd; 2, 5 : Brillerij; 3 : Garnwerd; 4, 8, 9, 10 : Wierum; 6 : Oostum; 7 : Niehoeve.



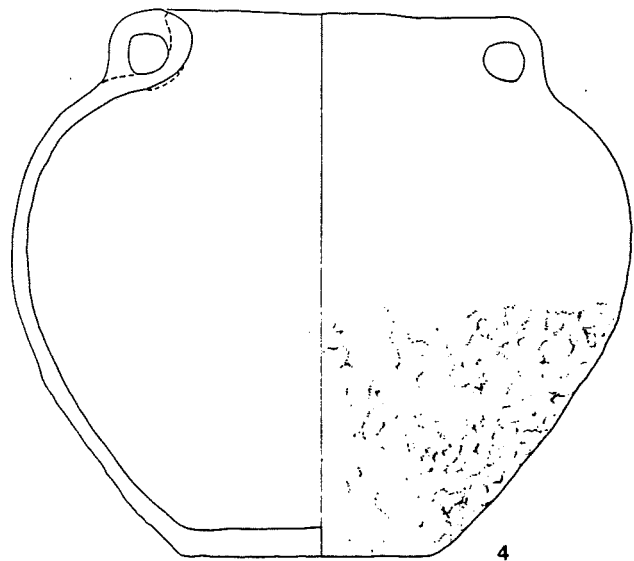
1



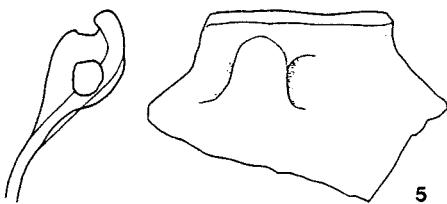
2



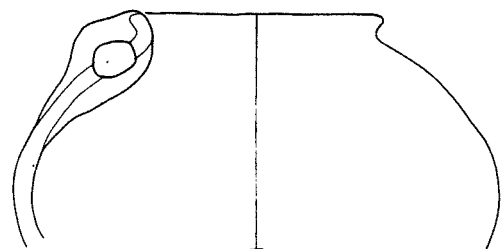
3



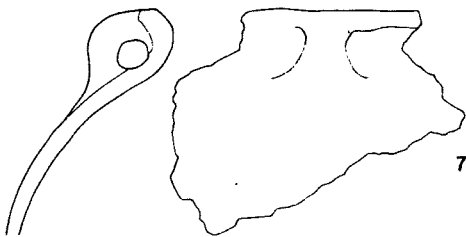
4



5



6



7

fig 33 Type IIIC.
 1 : Frytum; 2 : Feerwerd-Z.; 3 : Antum; 4 : Joeswerd; 5, 6 : Wierum; 7 : Brillerij.

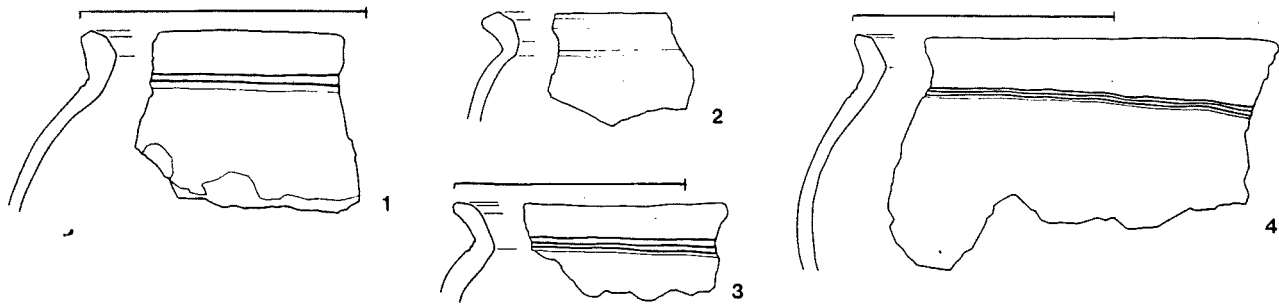


fig 34 Type IVAx.
1, 3 : Brillerij; 2 : Feerwerd-N.; 4 : Feerwerd-Z.

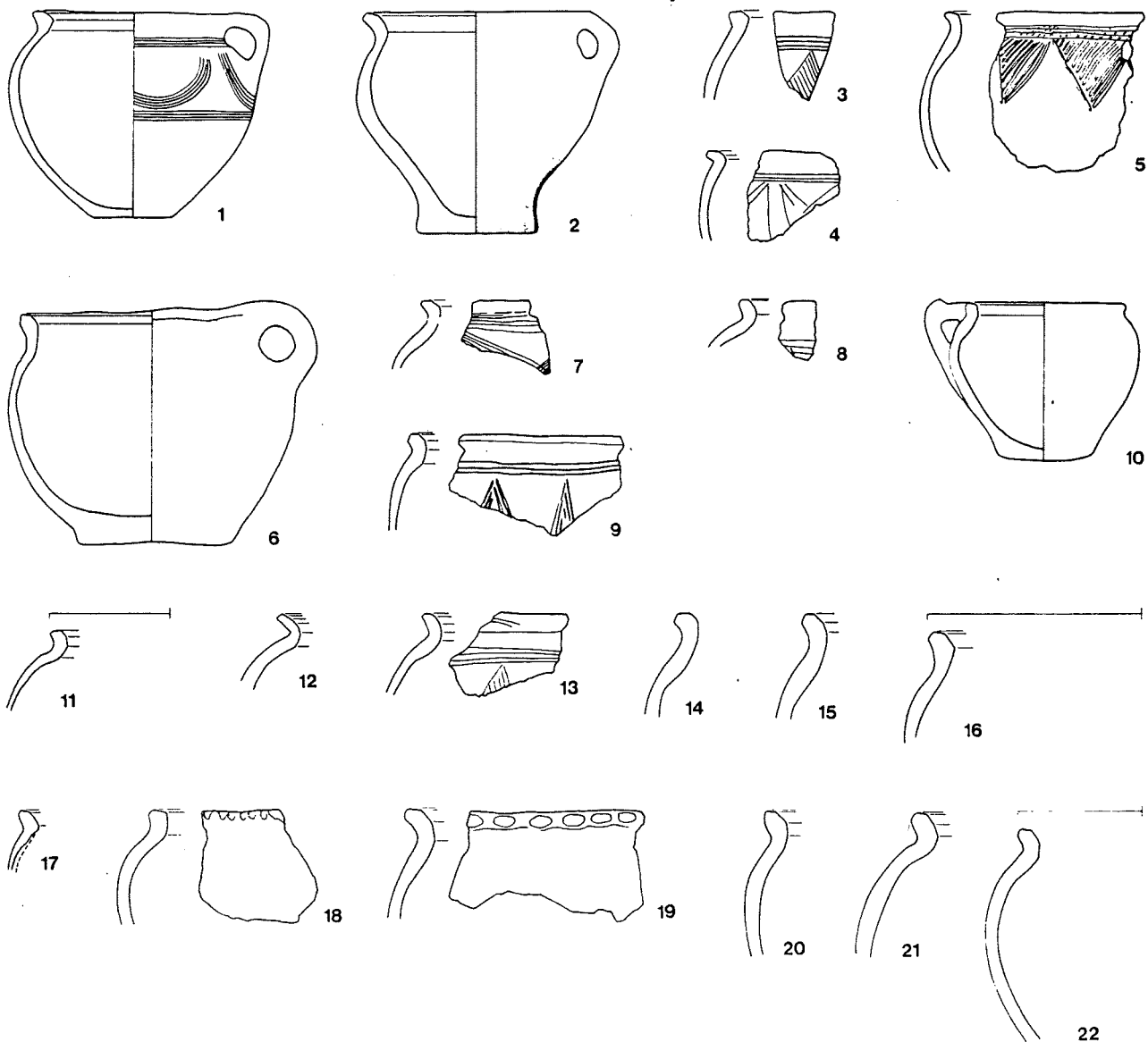


fig 35 Type IVAy.
1 : Antum; 2, 5 : Joeswerd; 3, 4, 8, 18, 19, 20, 21, 22 : Wierum; 6 : Feerwerd-N.; 7, 9 : Garnwerd; 10, 11, 12, 13, 16 : Brillerij;
14 : Franssum; 15 : Almahoeve; 17 : Dorkwerd.

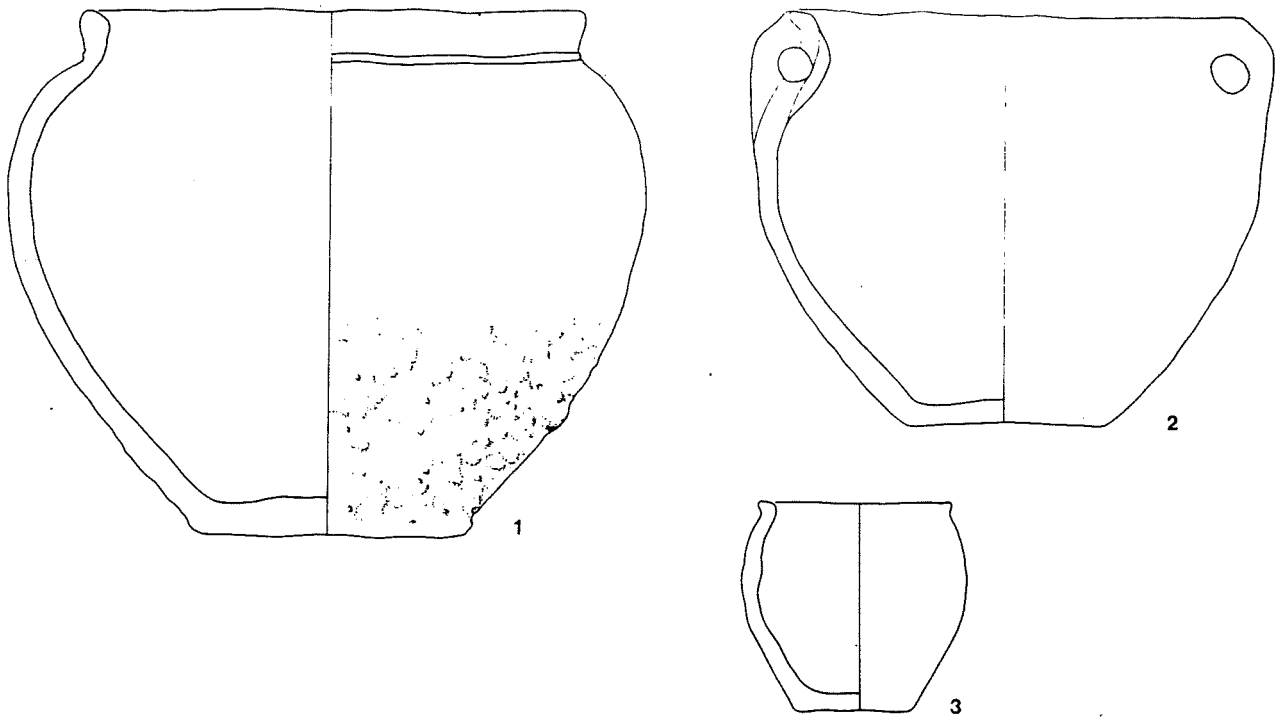


fig 36 Type IVBx.
1 : Feerwerd-Z.; 2 : Brillerij; 3 : Joeswerd.

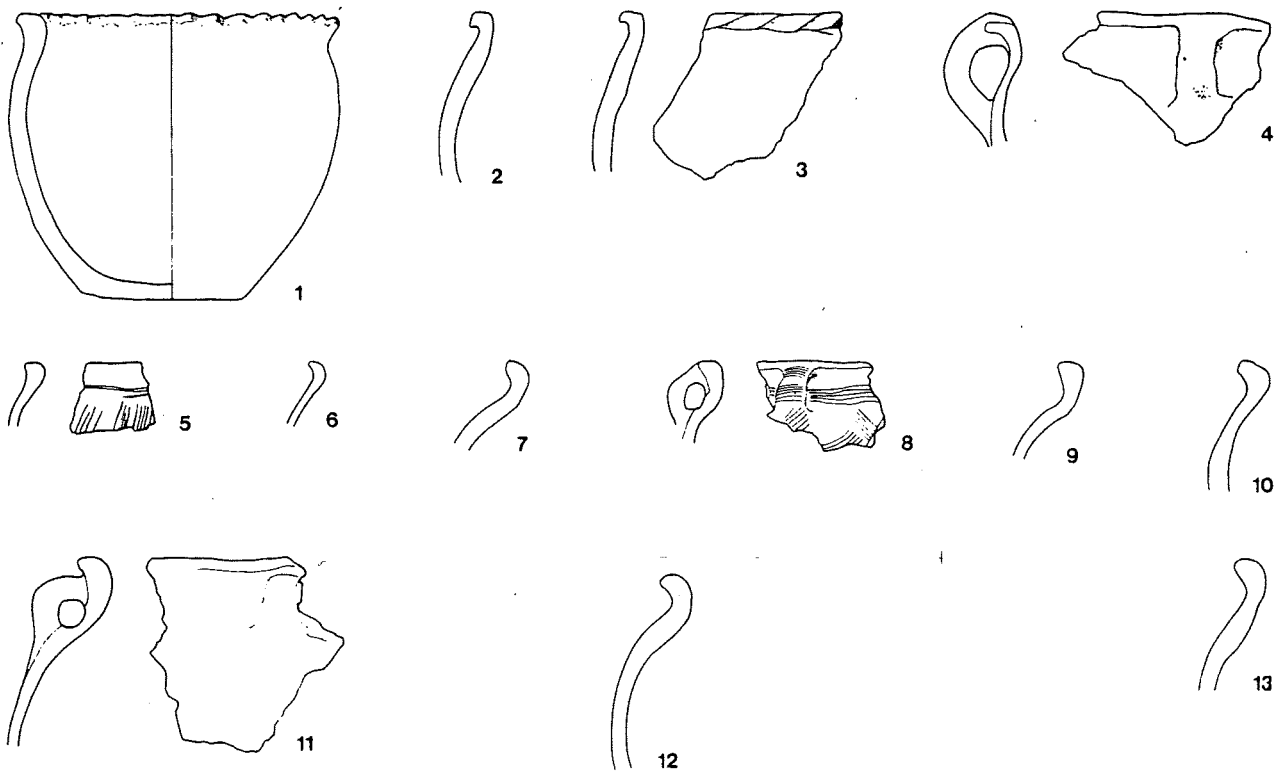


fig 37 Type IVBy.
1 : Garnwerd; 2 : Franssum; 3, 6 : Dorkwerd; 4, 8 : Brillerij; 5 : Joeswerd; 7, 10 : 7Bz80; 9, 11, 12 : Wierum;
13 : Almahoëve.

1 : 4

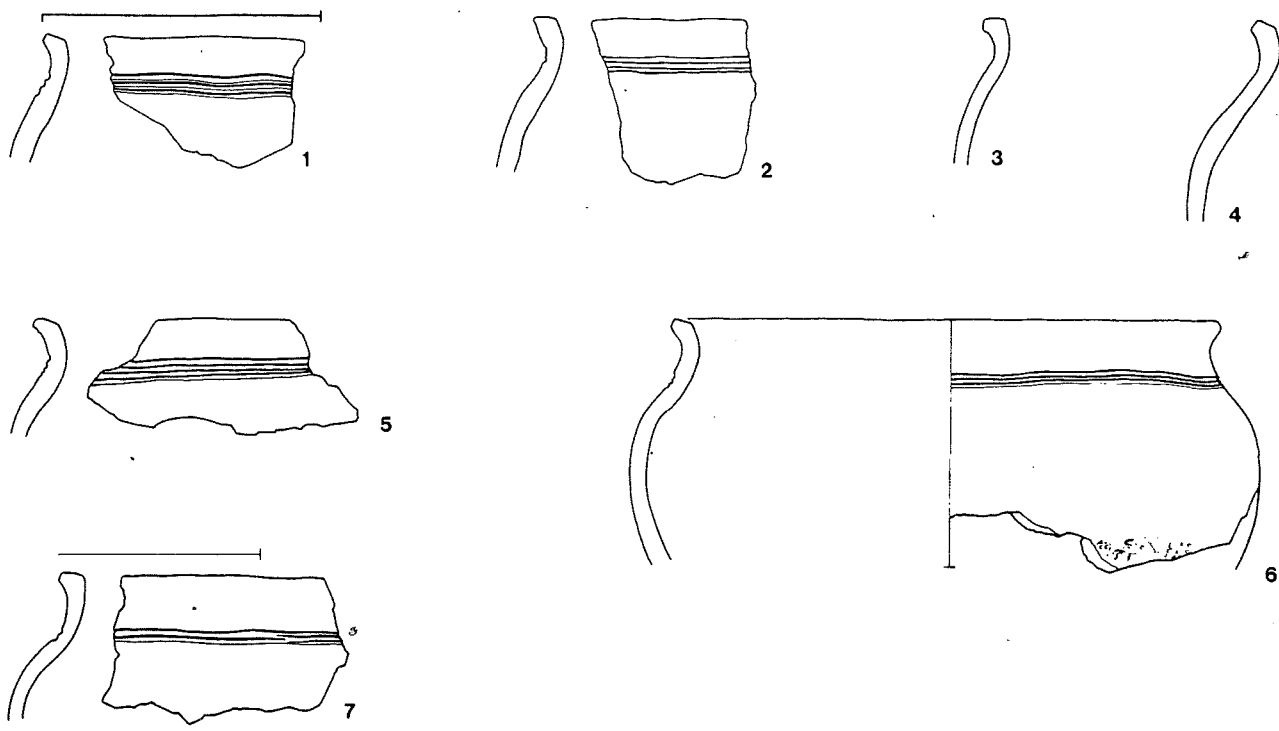


fig 38 Type IVCx.
 1, 5, 6, 7 : Brilllerij; 2 : 7Bz31; 3, 4 : Dorkwerd.

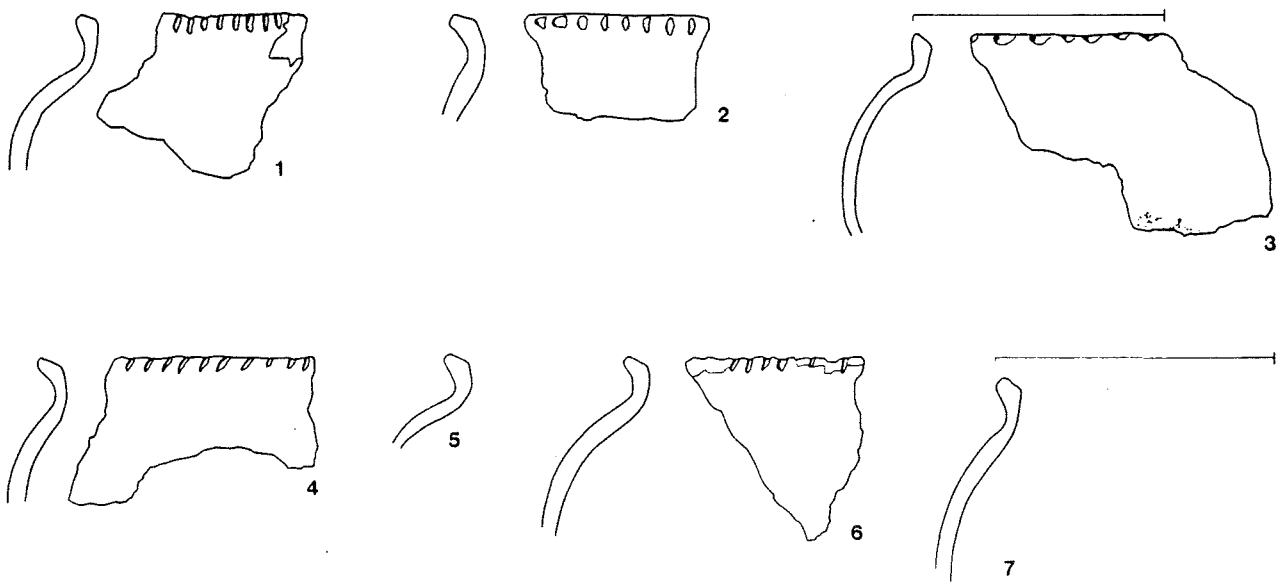


fig 39 Type IVCy.
 1, 2, 3 : Brilllerij; 4, 5, 6, 7 : Wierum.

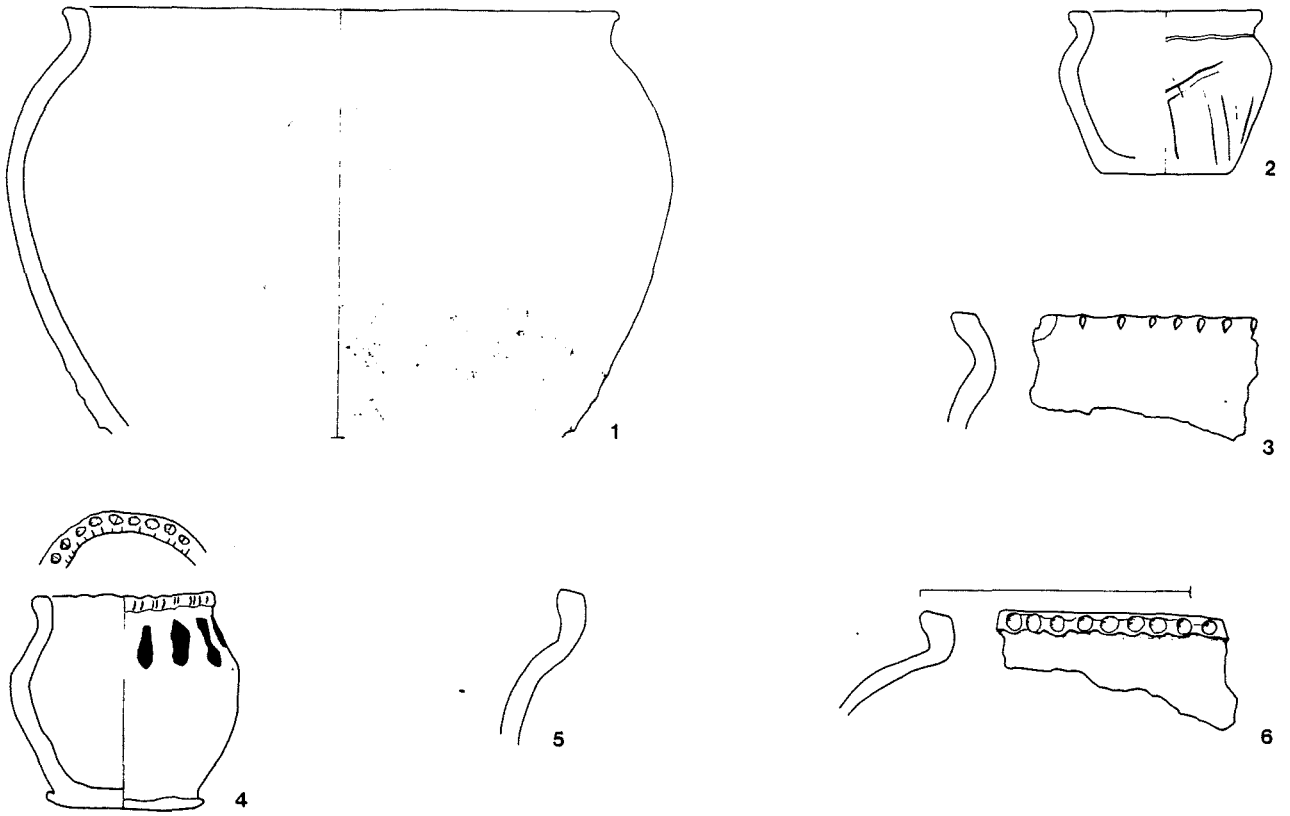


fig 40 Type IVDx.
1, 5 : Wierum; 2, 3, 4, 6 : Brillerij.

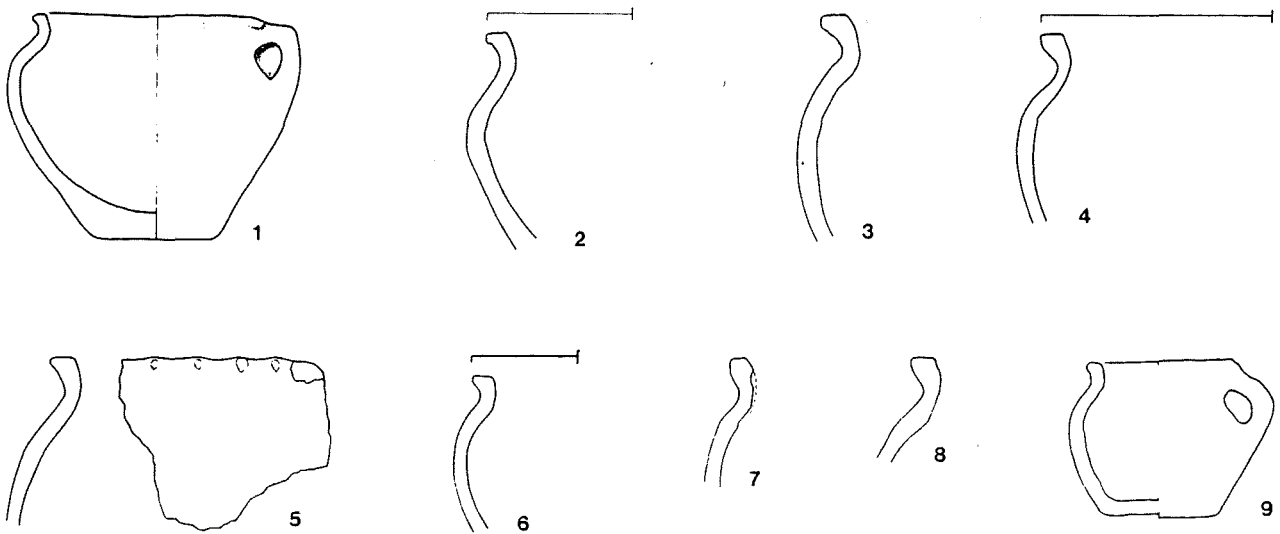


fig 41 Type IVDy.
1 : Feerwerd-N.; 2, 5 : Brillerij; 3, 4, 6, 8 : Wierum; 7, 9 : Garnwerd.

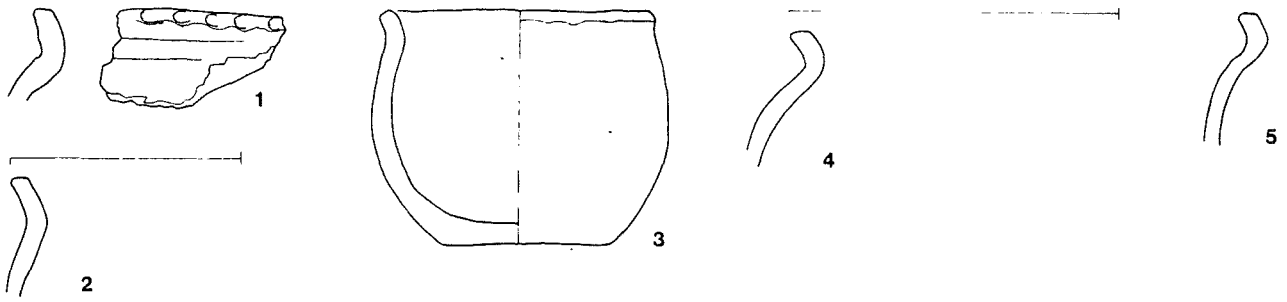


fig 42 Type IVEx.
1, 4 : Wierum; 2 : Brillerij; 3 : Antum; 5 : Garnwerd.

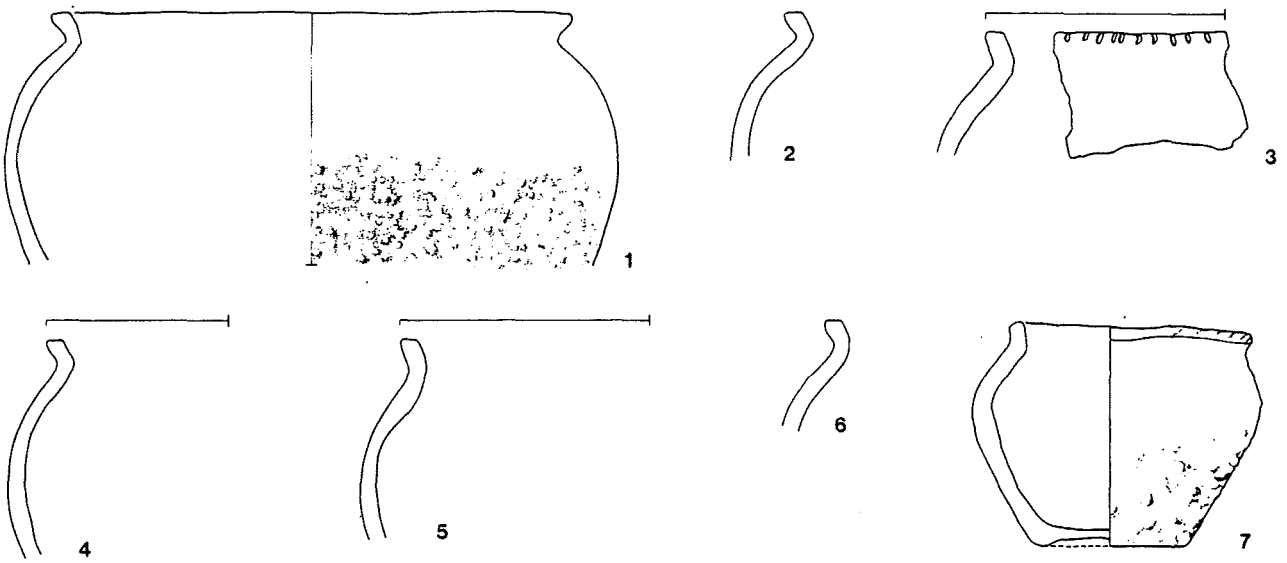


fig 43 Type IVEx.
1, 2, 3, 4, 6 : Wierum; 5 : Brillerij; 7 : Garnwerd.

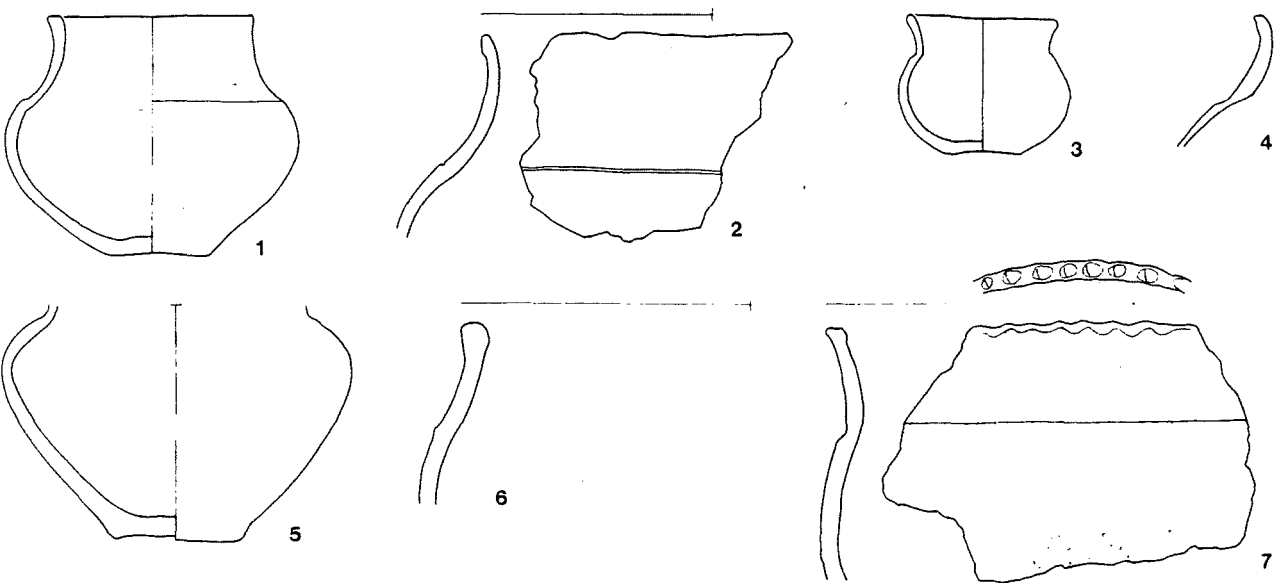


fig 44 Type IVF1.
1 : Joeswerd; 2, 4, 6, 7 : Brillerij; 3 : Feerwerd-N.; 5 : Garnwerd.

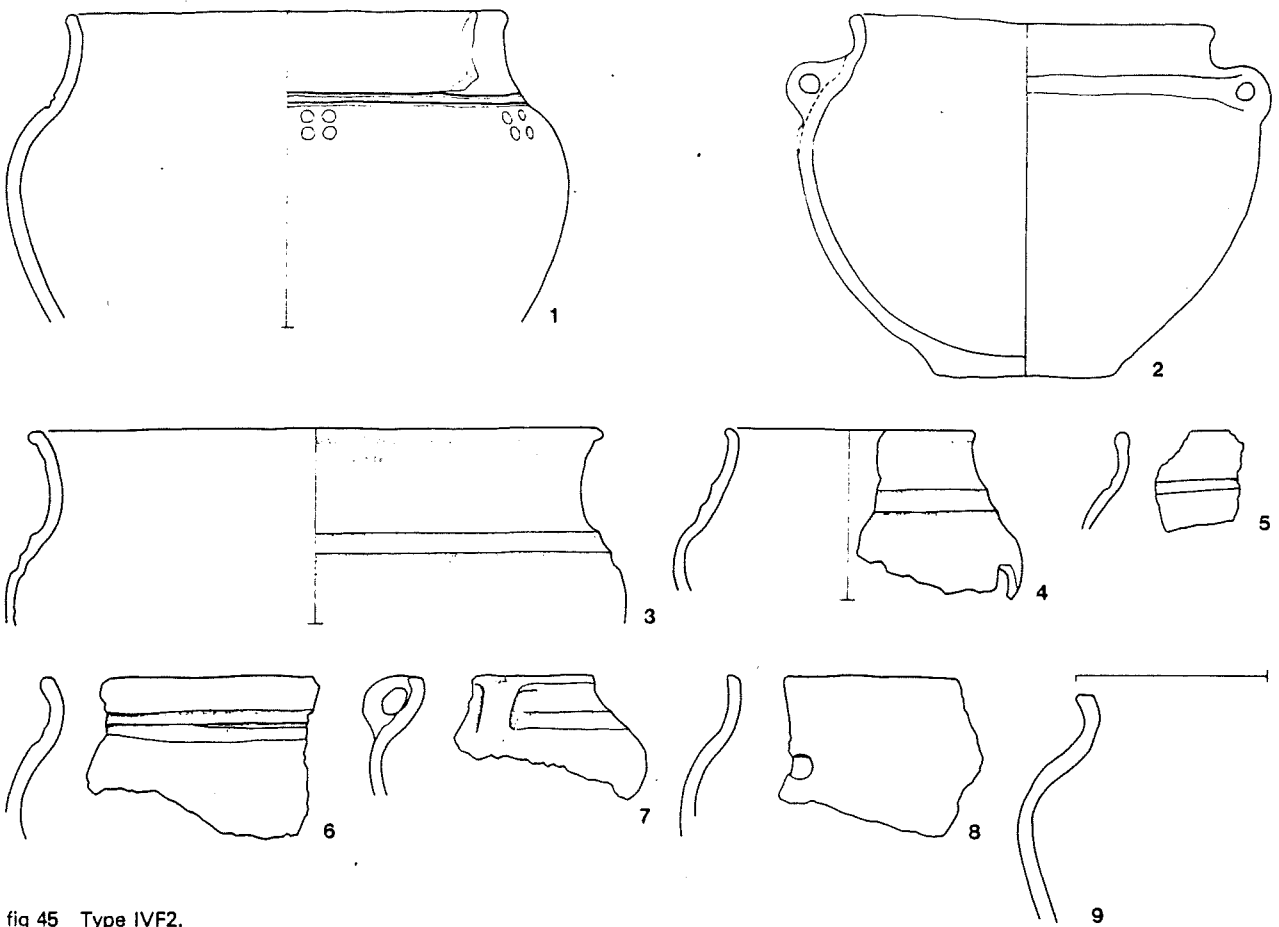


fig 45 Type IVF2.
 1, 2, 3, 4 : Brillerij; 5, 6, 7, 8, 9 : Wierum.

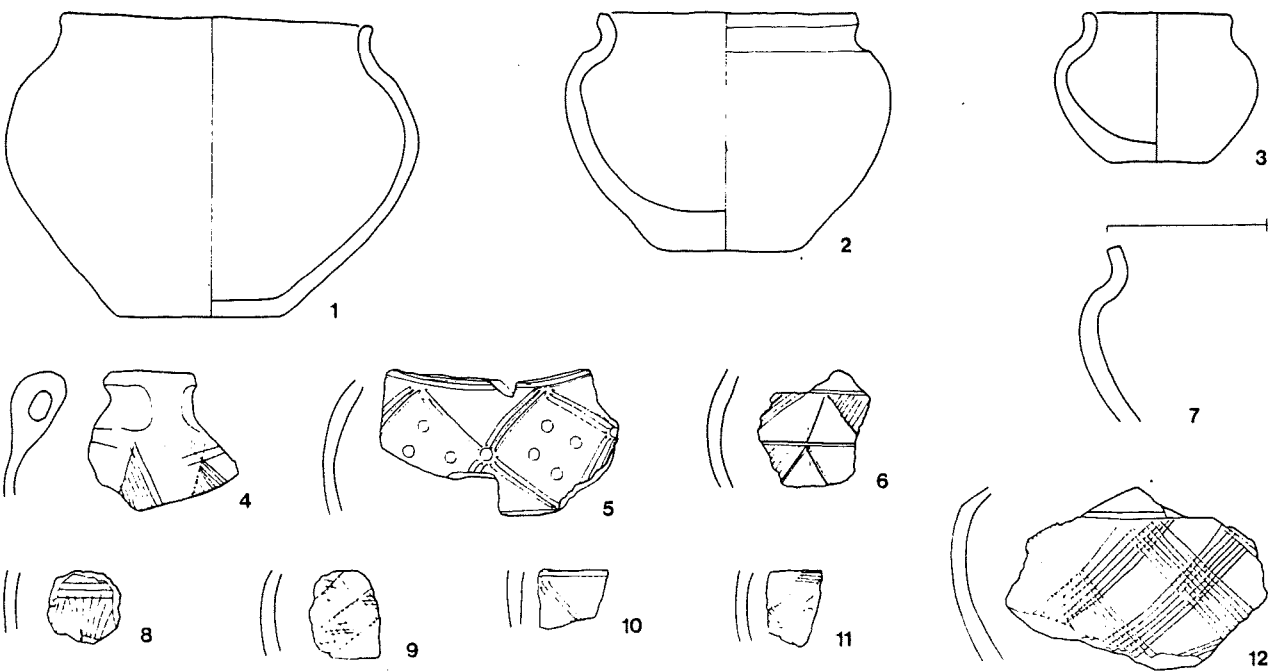


fig 46 Type IVF3.
 1, 6, 7, 9 : Brillerij; 2, 3 : Joeswerd; 4 : Feerwerd-Z.; 5, 10, 11 : Oostum; 8, 12 : Wierum.

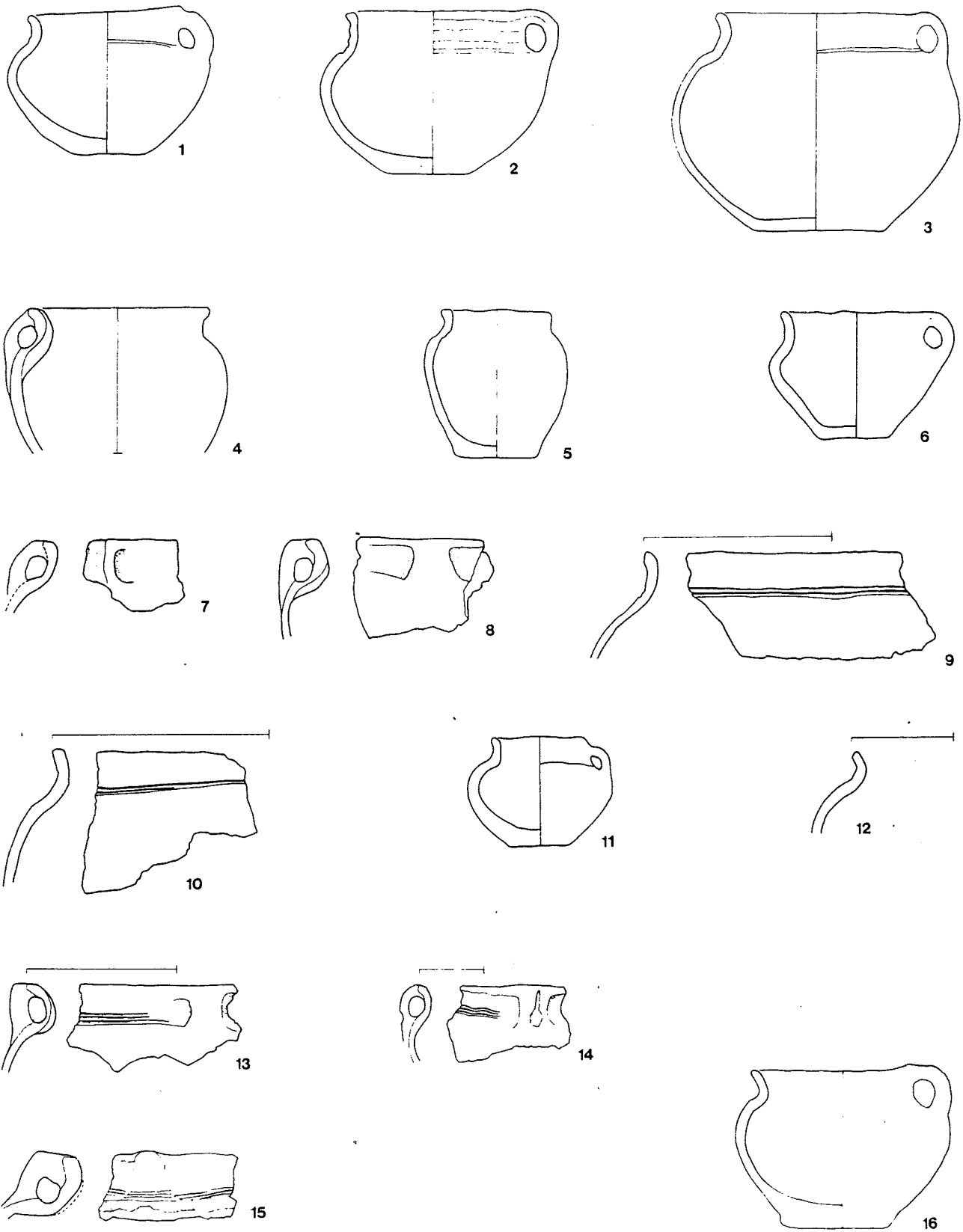


fig 47 Type IVG1.
 1 : Wetsinge; 2, 7, 9, 13, 14, 15, 16 : Brillerij; 3, 6, 11 : Joeswerd; 4 : Feerwerd-Z.; 5 : Frytum; 8, 10, 12 : Wierum. 1 : 4

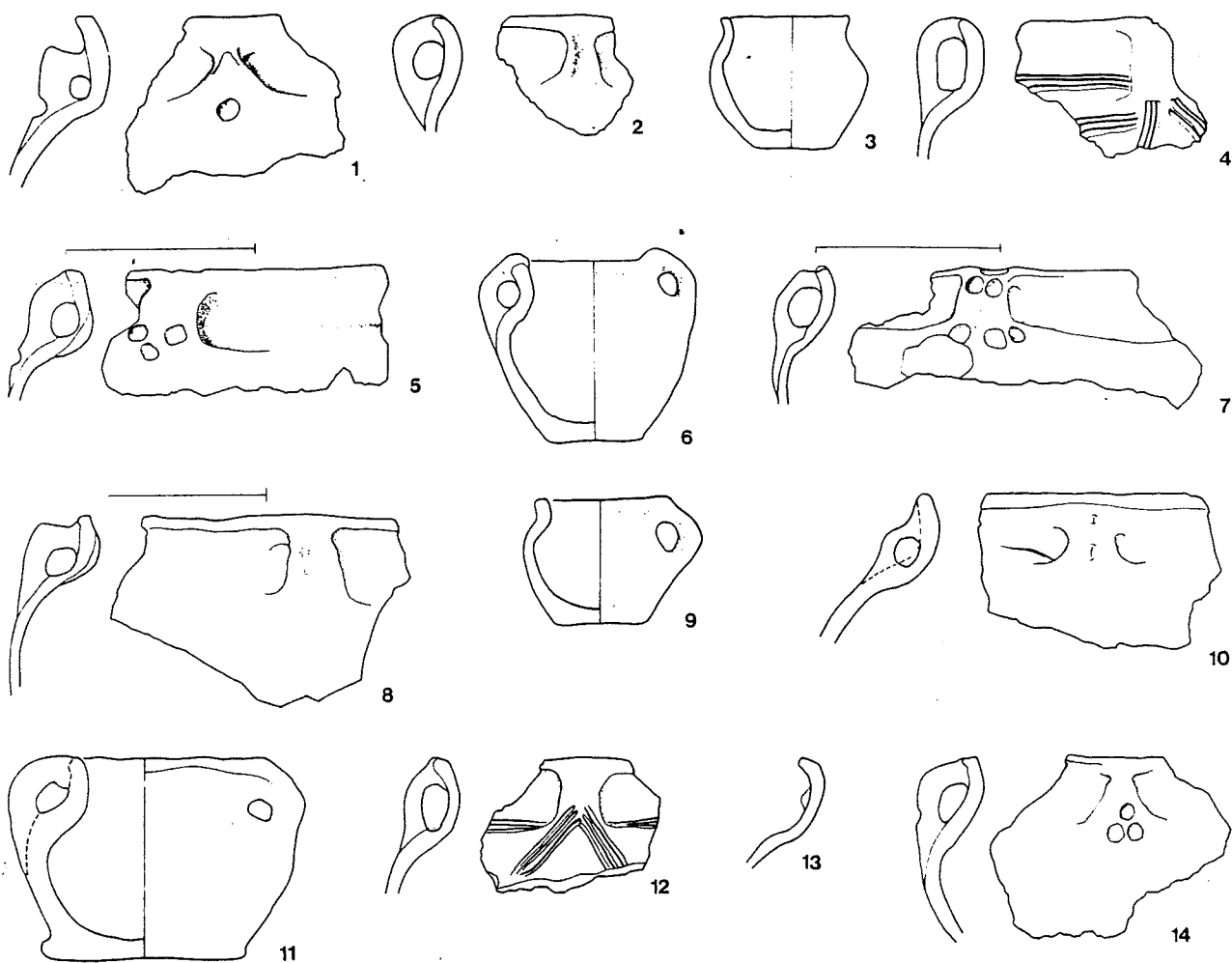


fig 48 Type IVG2.

1, 2 : Dorkwerd; 3, 4, 5, 6, 7, 8, 10, 12, 13, 14 : Brillerij; 9 : Wierum; 11 : Wetsinge.

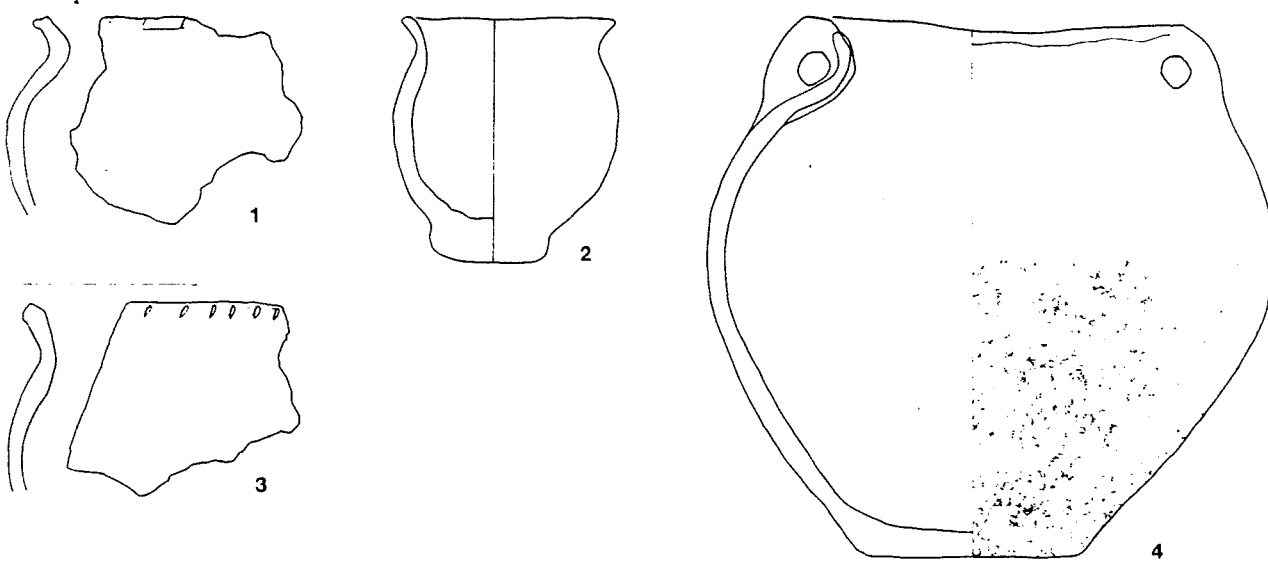


fig 49 Type IVG5.

1 : Franssum; 2 : Feerwerd-Z.; 3, 4 : Brillerij.

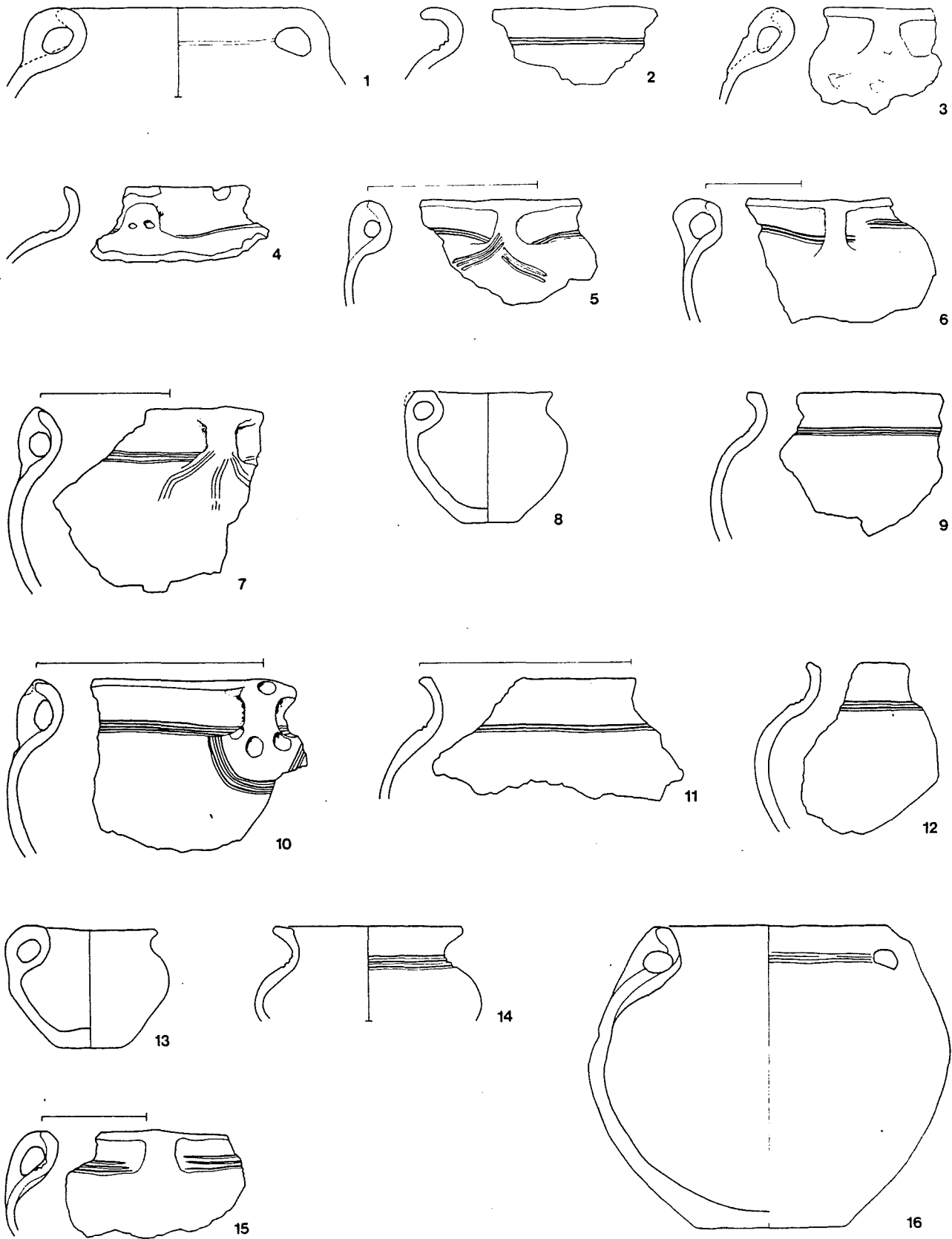


fig 50 Type IVG3.

1 : Oostum; 2 : Dorkwerd; 3, 4, 6, 7, 8, 9, 11, 12, 15, 16 : Brilllerij; 5, 10, 13 : Garnwerd; 14 : Niehove.

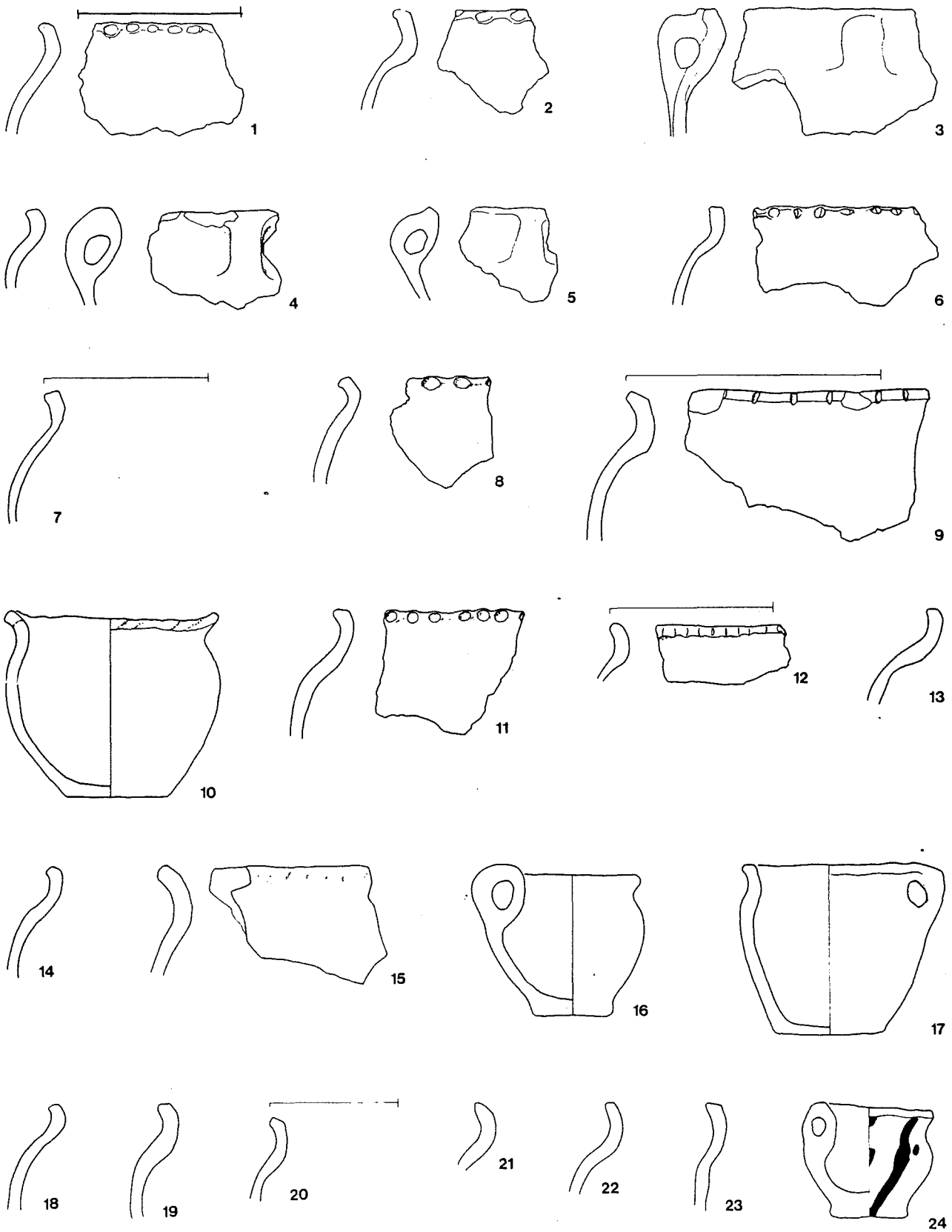


fig 51 Type IVG4.

1, 2, 3, 4, 5, 6, 7 : Wierum; 8, 9, 10, 11, 12 : Brillerij; 13, 21, 22 : 7Bz31; 14, 15 : Franssum; 16 : Antum;
 17, 20, 24 : Garnwerd; 18 : Oostum; 19, 23 : Dorkwerd.

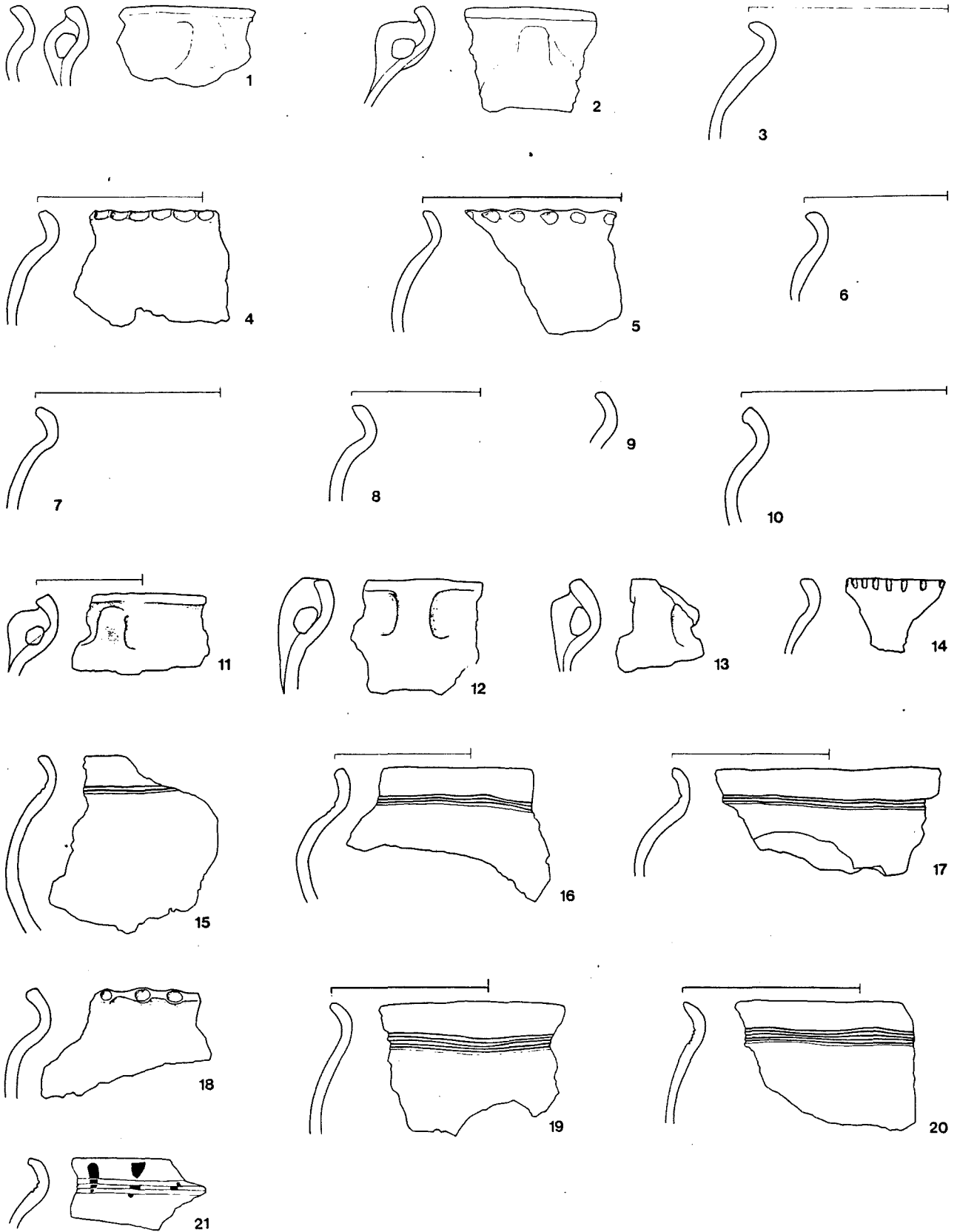


fig 52 Type IVG5.
 1, 4, 5, 6, 7, 11, 13, 15, 16, 17, 19, 20, 21 : Brillerij; 2, 3, 9 : Dorkwerd; 8, 10, 12, 14, 18 : Wierum.

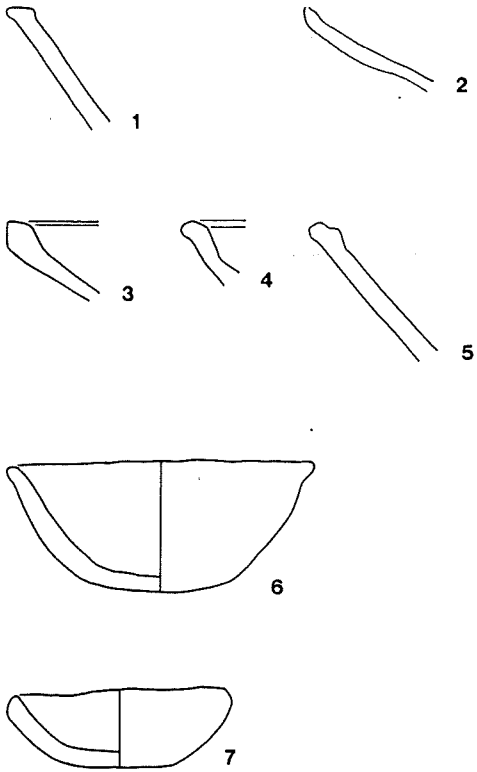


fig 53 Type VA.
1 : Wierum; 2 : Brillerij.
Type VB.
3, 4 : Nienhuis; 5 : Wierum.
Type VC.
6 : Oostum; 7 : Aalsum.

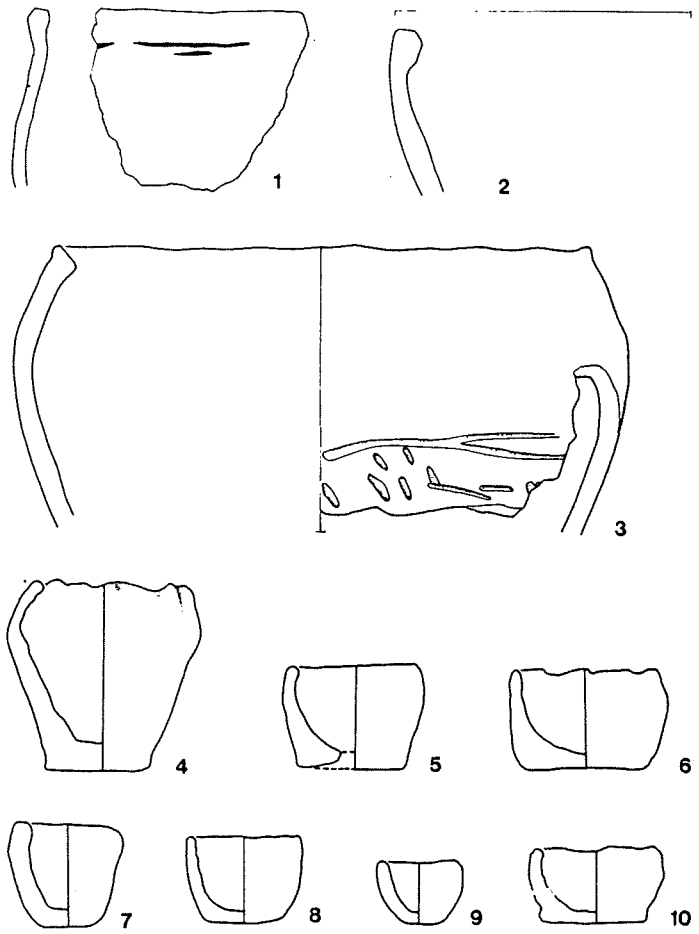


fig 54 Type VI.
1, 3 : Brillerij; 2, 10 : Wierum; 4 : Antum; 5 : Joeswerd;
6, 8 : Garnwerd; 7, 9 : Aalsum.

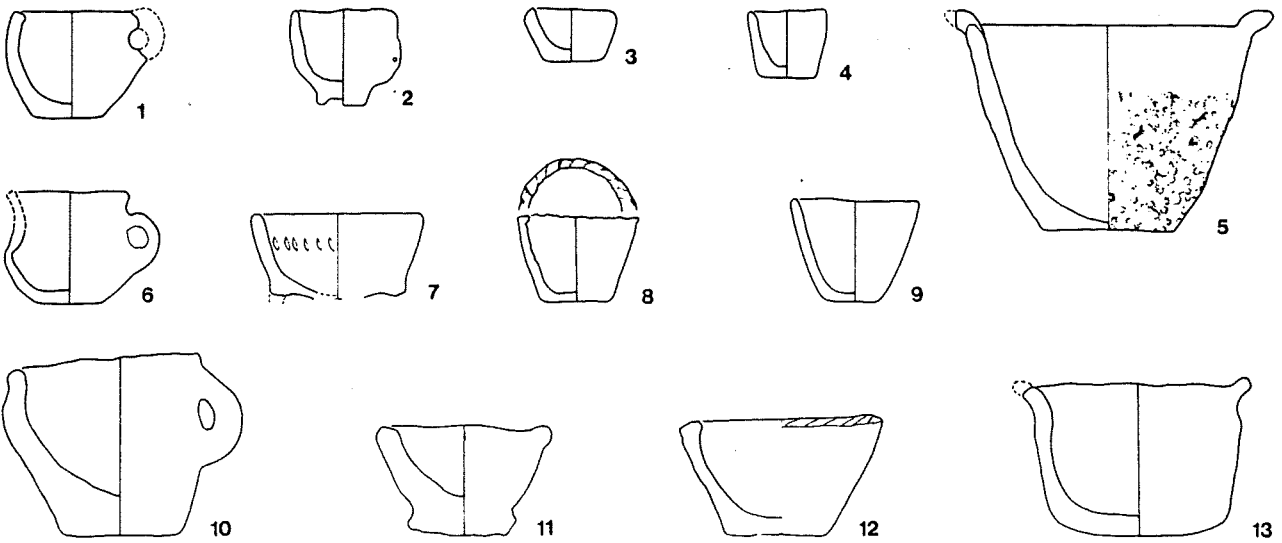


fig 55 Type VIIA.

1 : Garnwerd; 6 : Joeswerd;
10 : Wetsinge.

Type VII B1.

2 : Franssum; 7 : Garnwerd.

Type VII B2.

3 : Joeswerd; 4, 8 : Aalsum;
9, 12 : Garnwerd; 11 : Englum.

Type VII B3.

5 : Garnwerd; 13 : Antum.

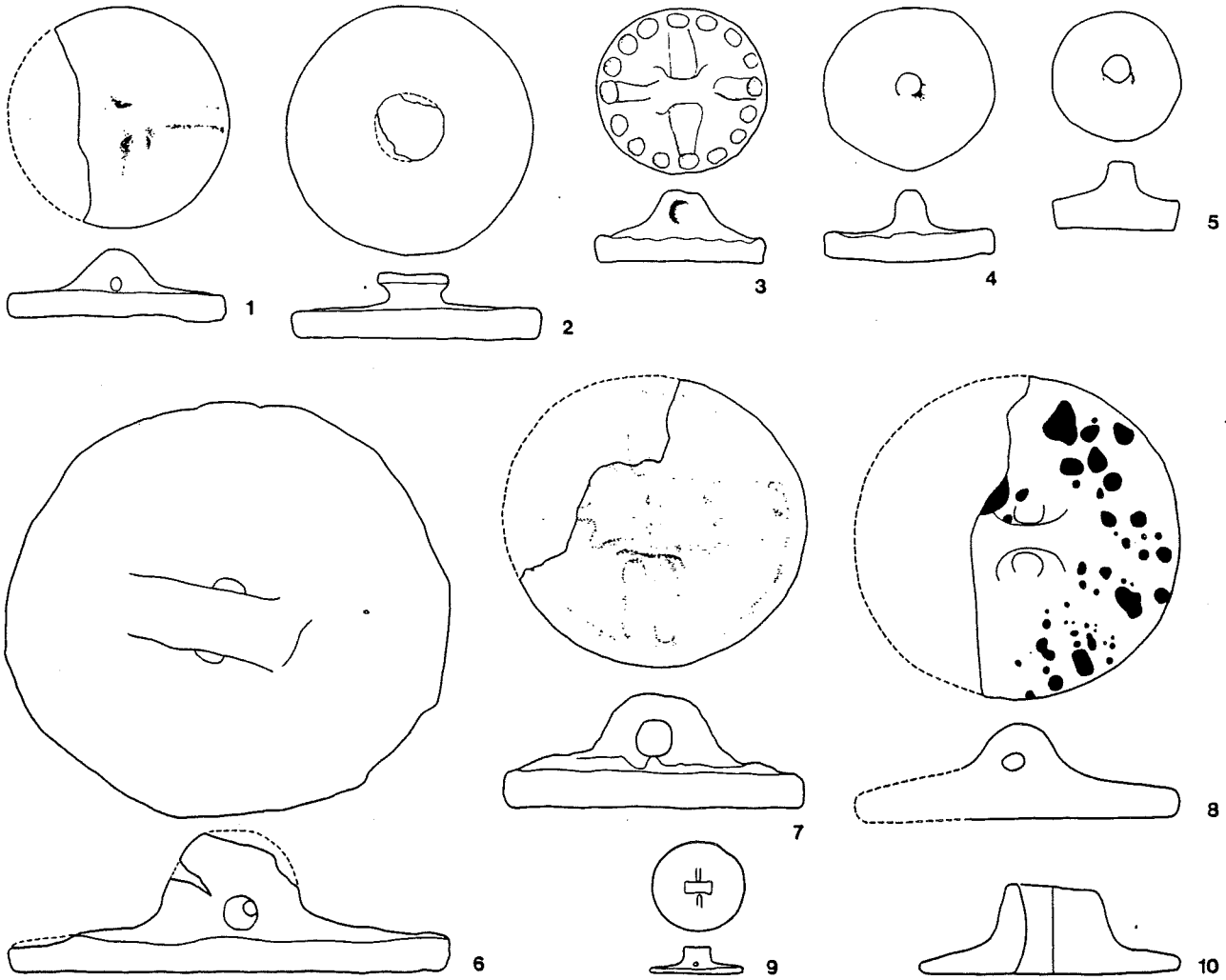


fig 56 Type VIII.
 1, 10 : Joeswerd; 2 : Garnwerd; 3, 6 : Brillerij; 4, 5 : Aalsum; 7, 8 : Feerwerd-Z.; 9 : Wierum.

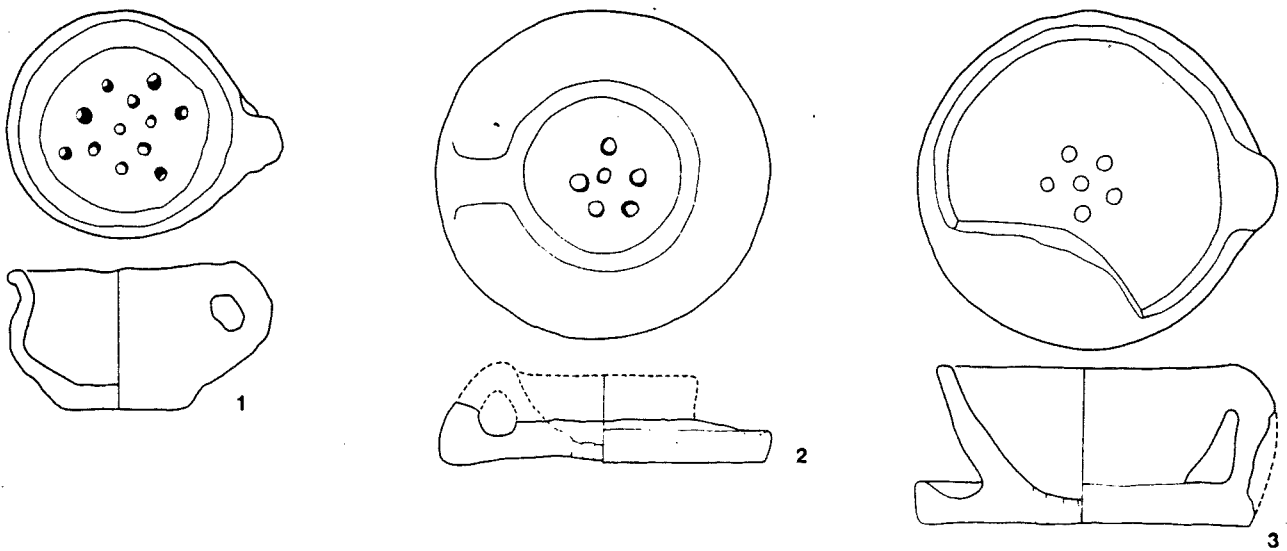


fig 57 Type IXA. Type IXB.
 1 : Brillerij. 2 : Bauwert; 3 : Antum.

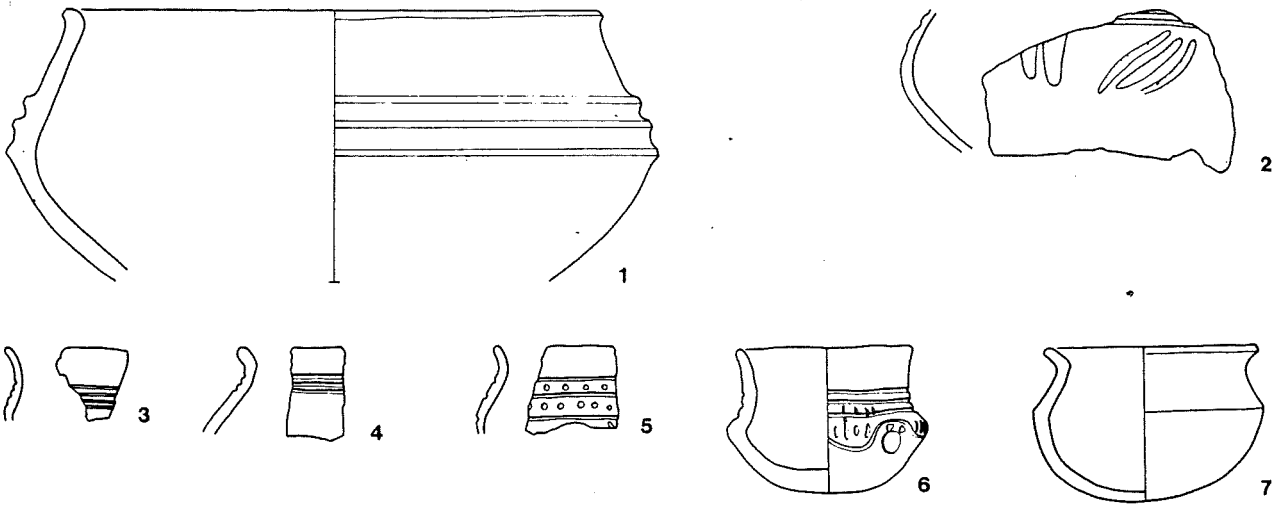


fig 58 Type XA.
 1 : Brillerij; 2, 6 : Oostum; 3 : Garnwerd; 4, 5, 7 : Wierum.

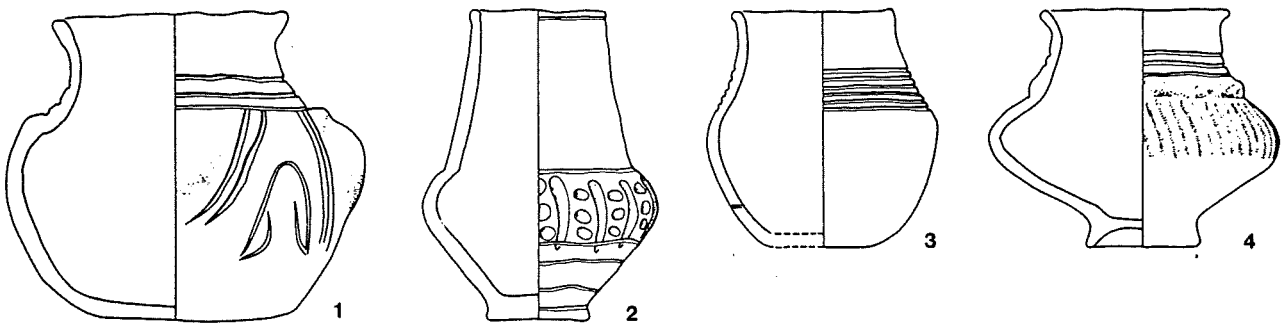


fig 59 Type XB.
 1 : Garnwerd; 2 : Feerwerd-N.; 3 : Feerwerd-Z.; 4 : Franssum.

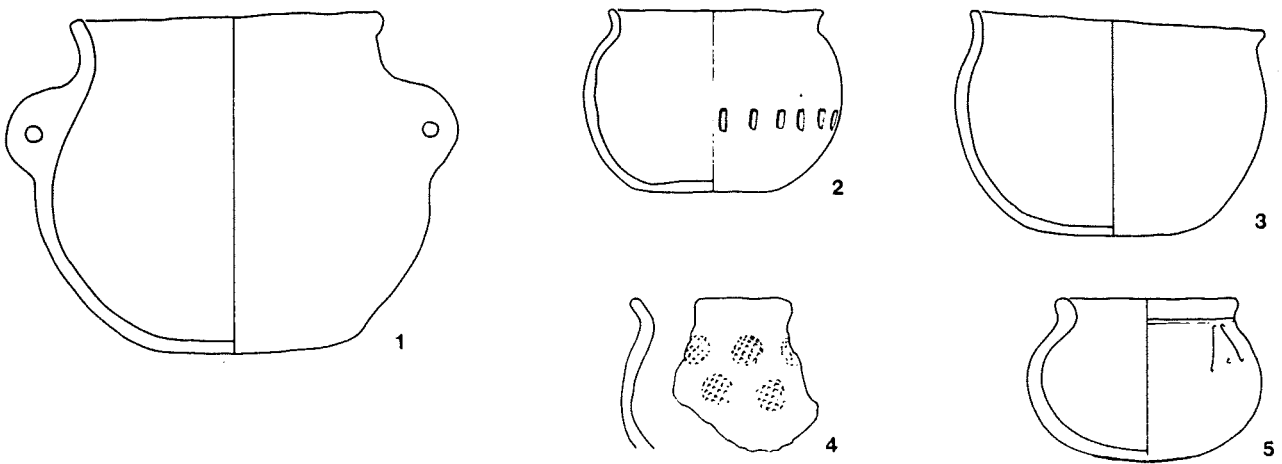


fig 60 Type XIC.
 1 : Wierum; 2 : Brillerij; 3 : Bauwert; 4 : 7Bz17; 5 : Feerwerd-N.

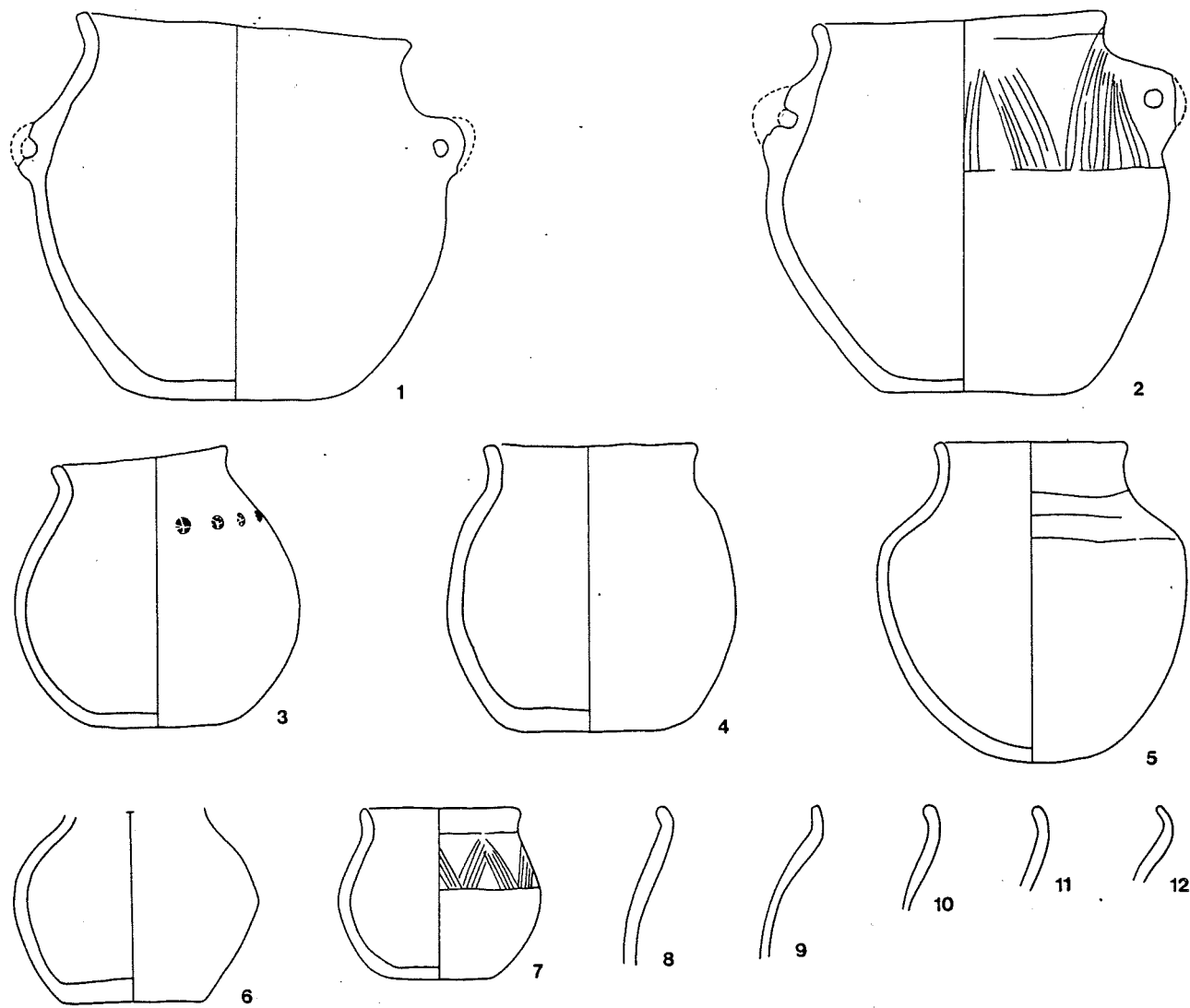


fig 61 Type XIA.
 1, 2, 7 : Oostum; 3 : Bauwert; 4, 9 : Brillerij; 5 : Garnwerd; 6 : Aalsum; 8, 10, 11, 12 : Wierum.

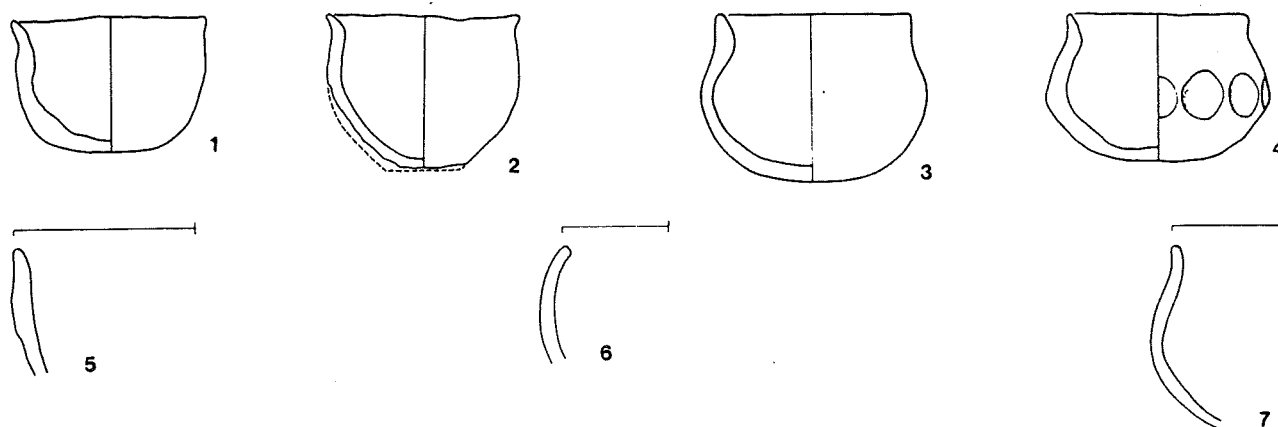


fig 62 Type XIB1. Type XIB2. Type XIB3.
 1 : Dorkwerd; 2 : Aalsum; 3 : Wierum; 4 : Oostum; 5 : Wierum.
 6 : Wierum.
 7 : Brillerij.

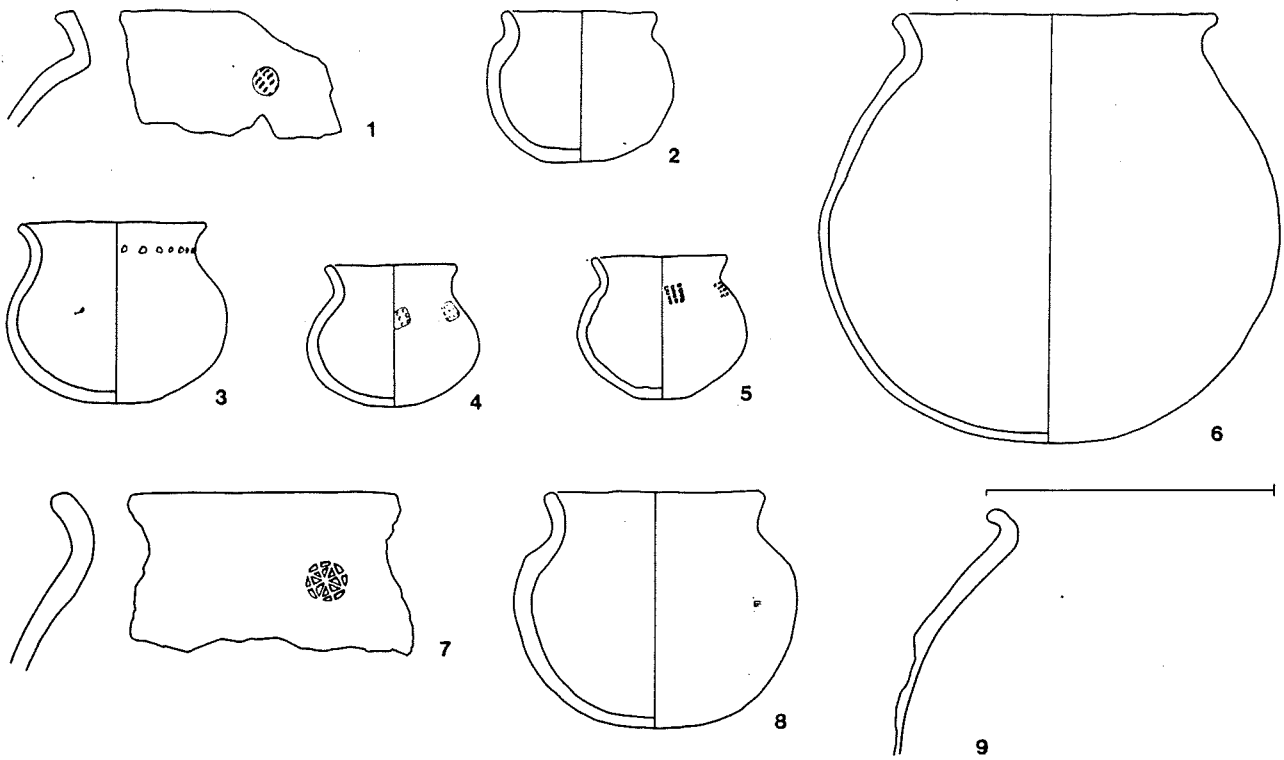


fig 63 Type XIII A.
 1 : Franssum; 2, 6 : Aalsum; 3, 7, 9 : Dorkwerd; 4, 5, 8 : Garnwerd.

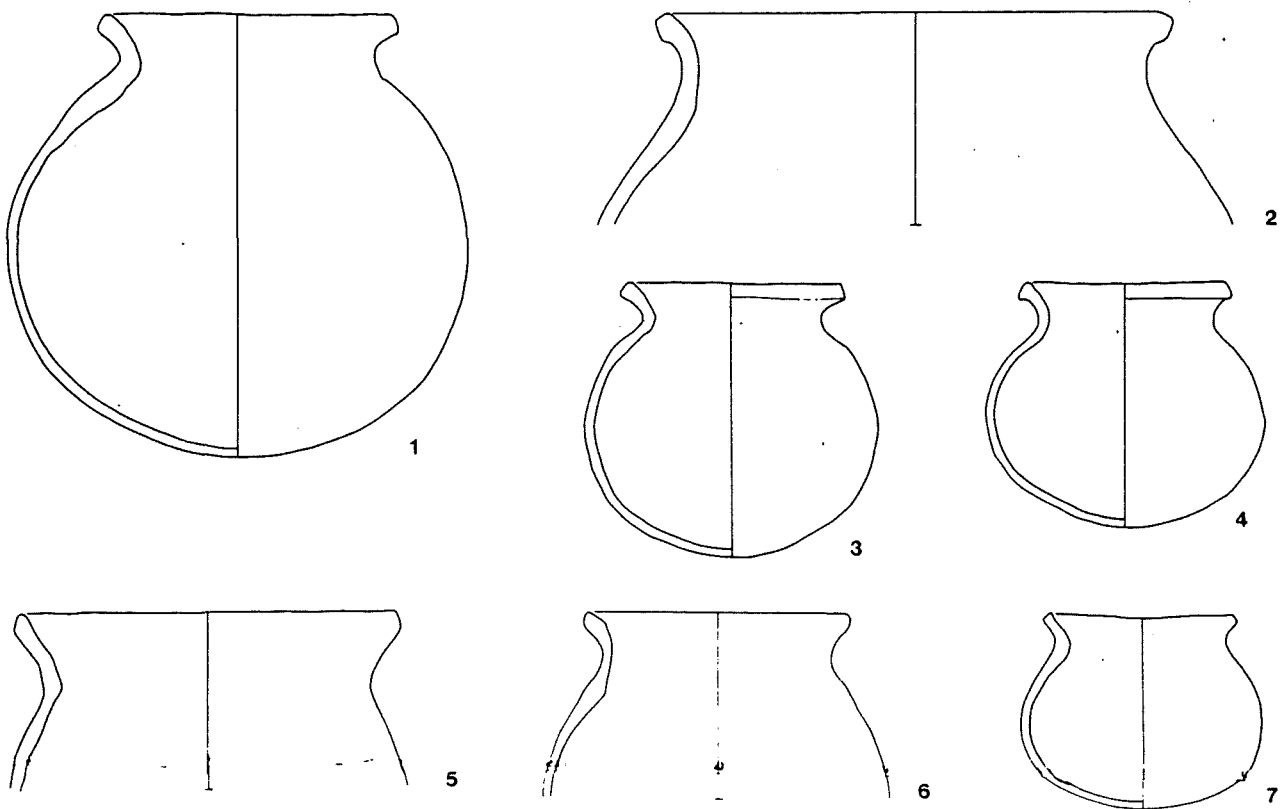


fig 64 Type XIII B.
 1 : Niehove; 2, 6 : Franssum; 3, 4 : Dorkwerd; 5 : Saaksum; 7 : Antum.

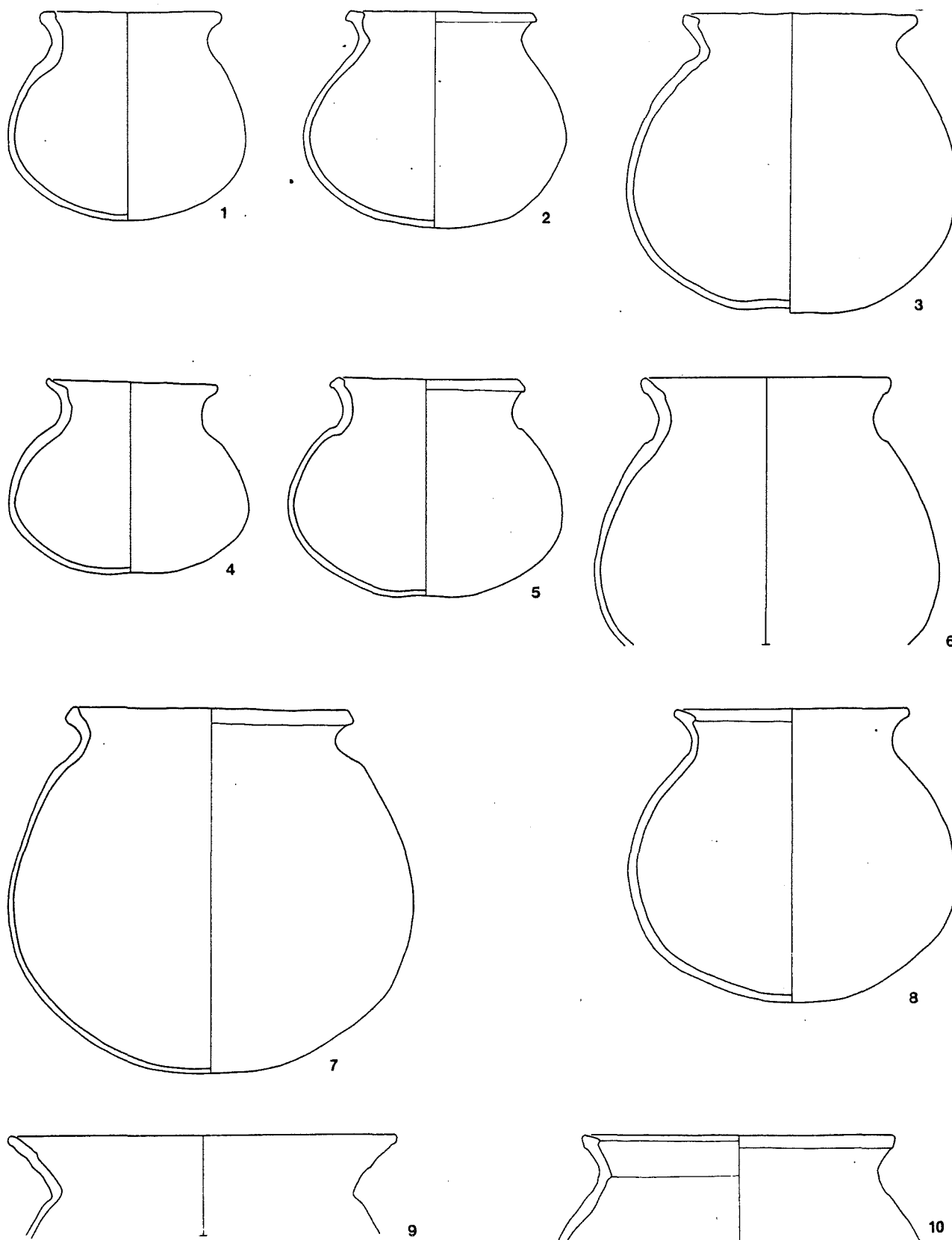


fig 65 Type XIIC.

1 : Oostum; 2, 5 : Garnwerd; 3, 8 : Aalsum; 4 : Antum; 6, 9 : Franssum; 7 : Feerwerd-Z.; 10 : Almahoeve.

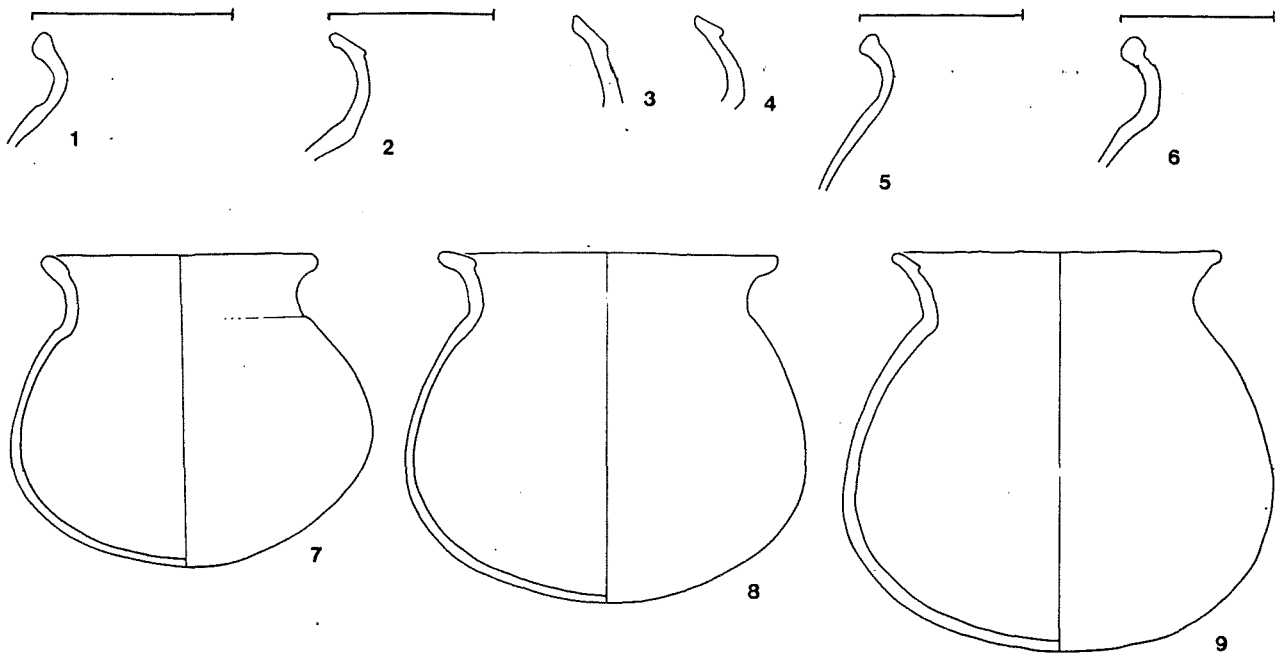


fig 66 Type XIIC.
 1, 5 : Brillerij; 2 : Wierum; 3, 4 : Almahoeve; 6 : Feerwerd-Z.; 7 : Garnwerd; 8 : Antum; 9 : Aalsum.

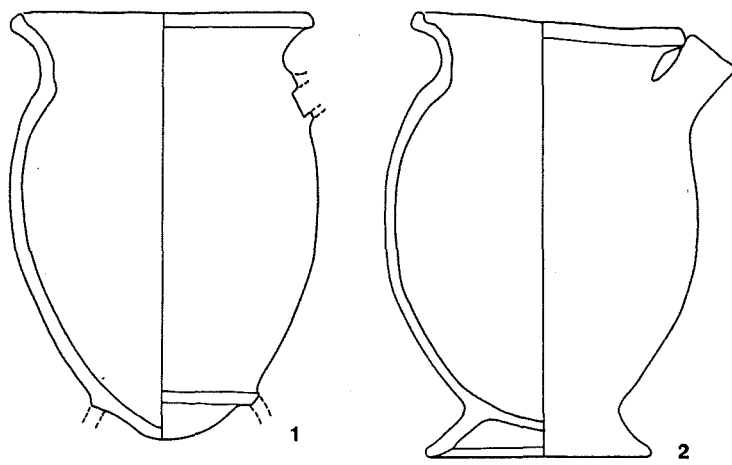


fig 67 Type XIII.
 1 : Feerwerd-N.; 2 : Garnwerd.

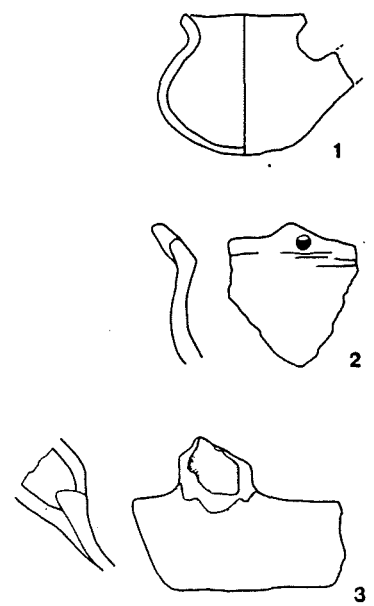


fig 68 Type XIV.
 1 : Joeswerd; 2 : Wierum;
 3 : Dorkwerd; 4 : Garnwerd. 1 : 4

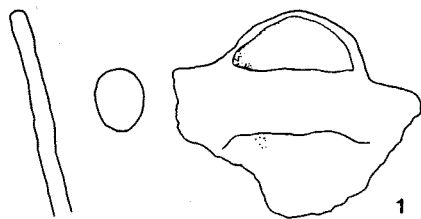


fig 69 Type XV.
 1 : Brillerij.

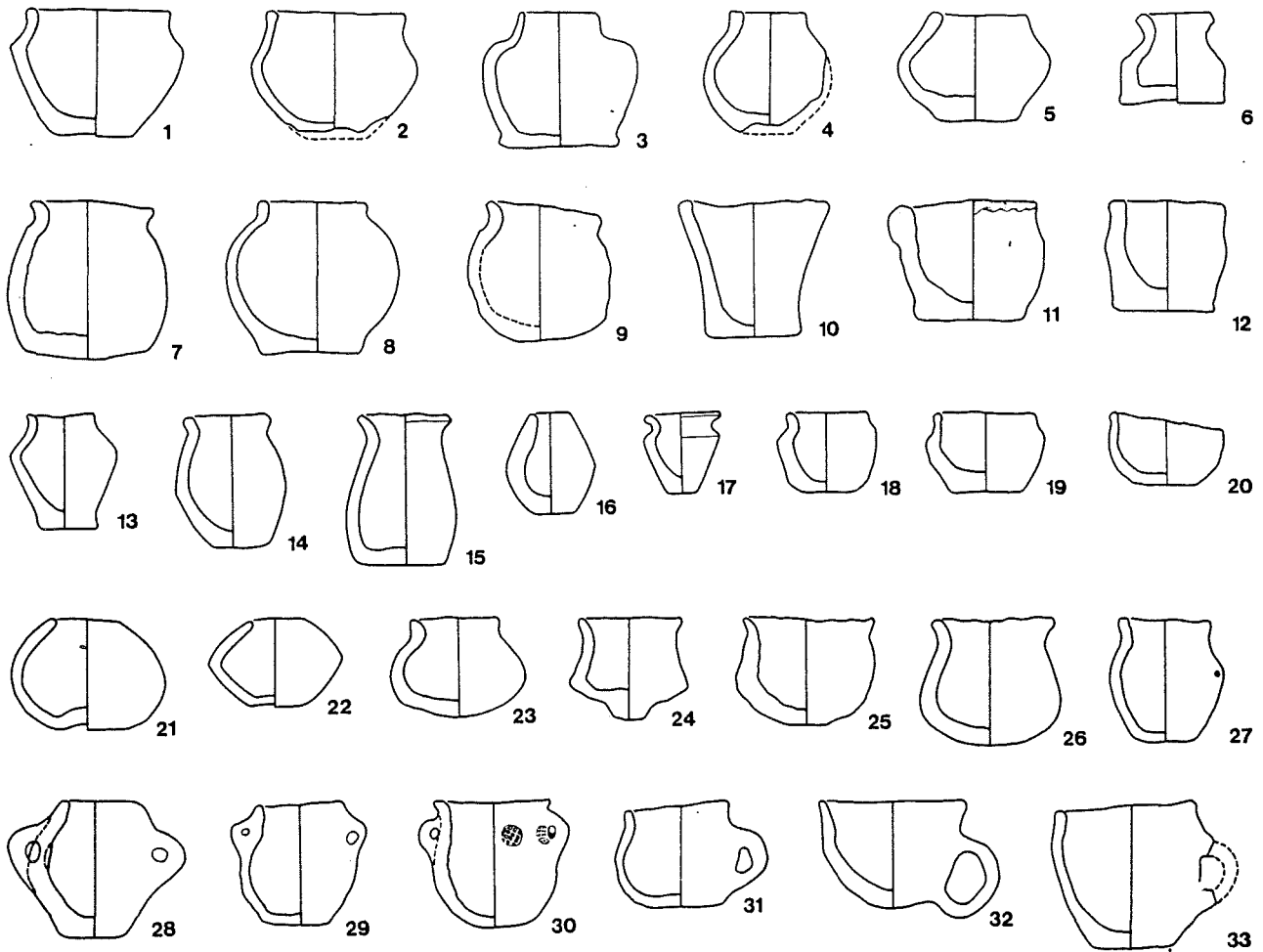


fig 70 Type XVI.

1 : Franssum; 2, 3, 6, 7, 9, 15, 17 : Joeswerd; 3, 8 : Antum; 5, 10, 13, 19, 20, 22 : Garnwerd; 11, 12, 14 : Oostum;
 16, 18, 24, 30 : Dorkwerd; 21 : Brillerij; 23 : Feerwerd-Z.; 26 : Aalsum; 27, 28, 29, 31 : Feerwerd- N.; 32, 33 : Englum.

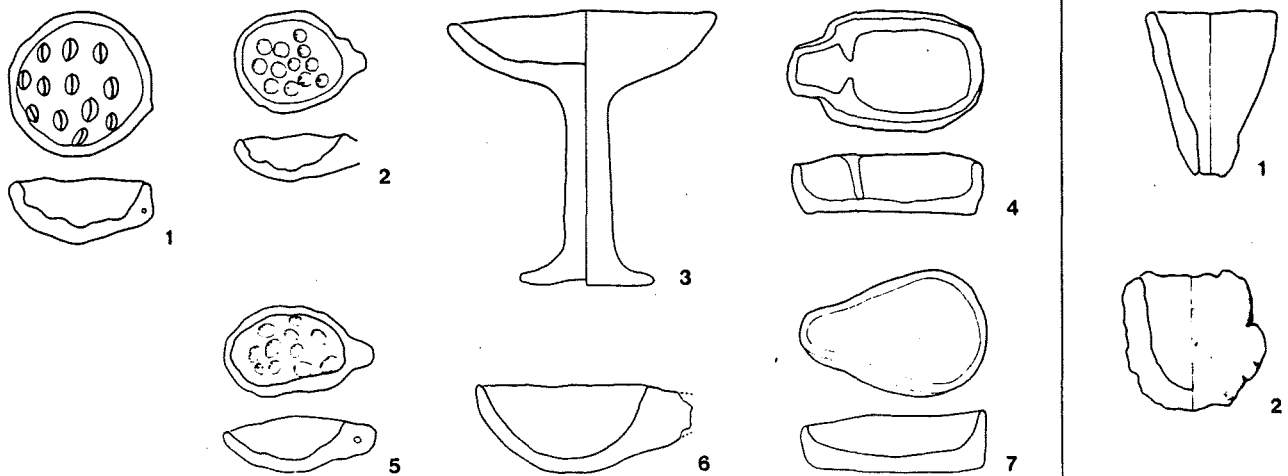


fig 71 Type XVIIA.
 1 : Oostum; 2 : Joeswerd;
 5 : Feerwerd-Z.; 6 : Dorkwerd.

Type XVIIIB.
 4 : Oostum; 7 : Antum.

Type XVIIC.
 3 : Aalsum.

fig 72
 Type XVIII.
 1, 2 : Garnwerd.

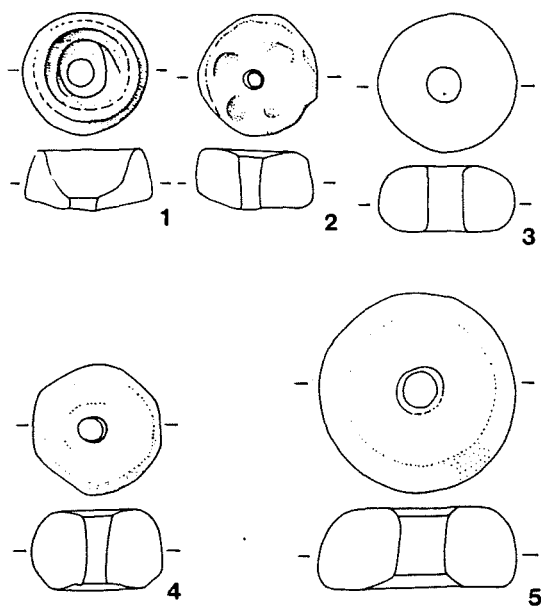


fig 73 Type XIXA1.
 1, 2 : Joeswerd; 3 : Feerwerd-N.; 4 : Garnwerd;
 5 : Feerwerd-Z.

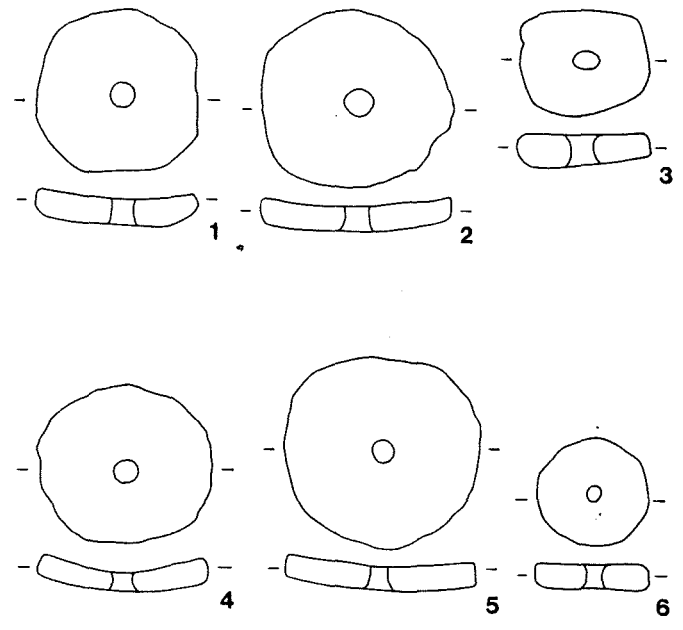


fig 74 Type XIXA2.
 1, 3, 4, 6 : Joeswerd; 2, 5 : Ezinge.

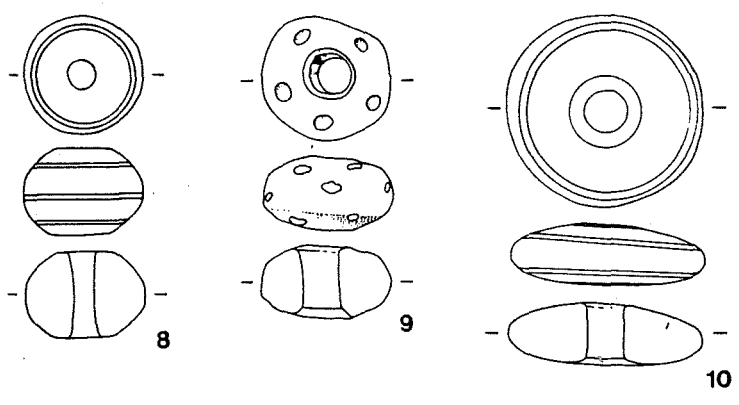
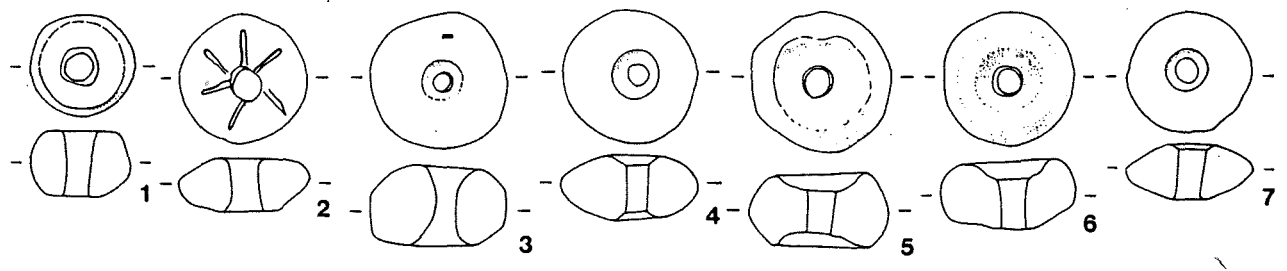


fig 75 Type XIXC.
 1, 5, 6 : Joeswerd; 2, 10 : Dorkwerd; 3 : Garnwerd;
 4 : Feerwerd-Z.; 7, 8 : Ezinge; 9 : Bauwert.

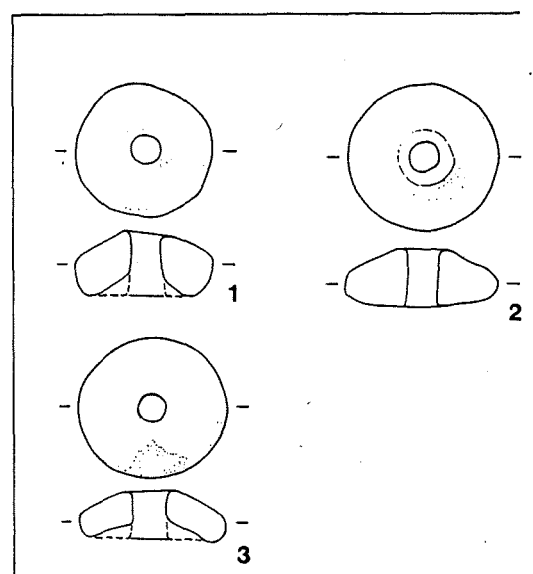


fig 76 Type XIXB.
 1 : Aalsum; 2 : Ezinge; 3 : Joeswerd. 1 : 2

Symmetrisch bicentral

Asymmetrisch bicentral

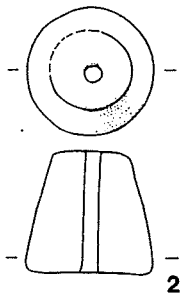
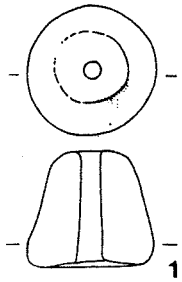


fig 77 Type XIXD1.
1 : Joeswerd;
2 : Ezinge.

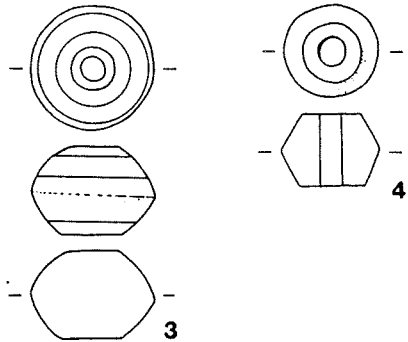
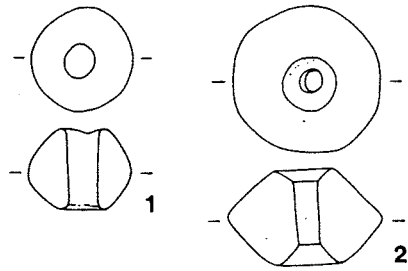


fig 78 Type XIXD2.
1, 3 : Joeswerd; 2, 4 : Dorkwerd.

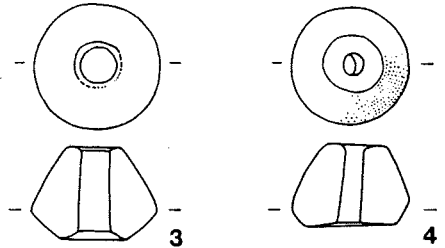
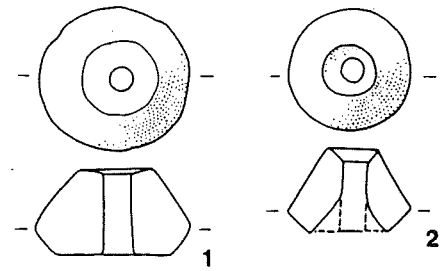


fig 79 Type XIXD3.
1 : Dorkwerd; 2 : Ezinge;
3, 4 : Joeswerd.

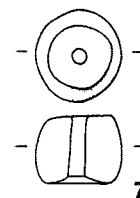
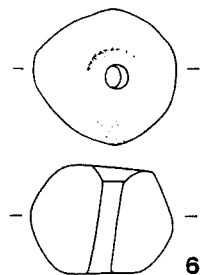
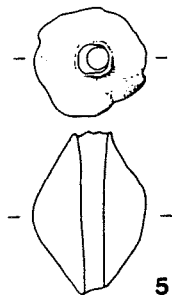
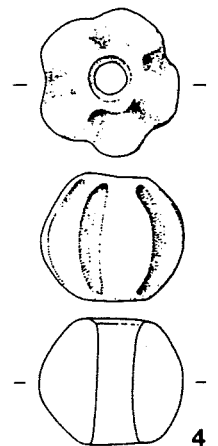
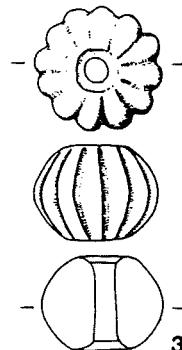
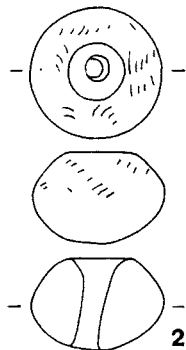
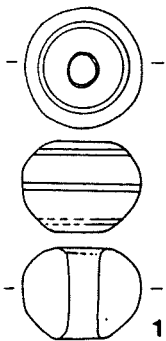


fig 80 Type XIXE.
1 : Dorkwerd; 2, 5, 6, 7 : Joeswerd; 3, 4 : Ezinge.

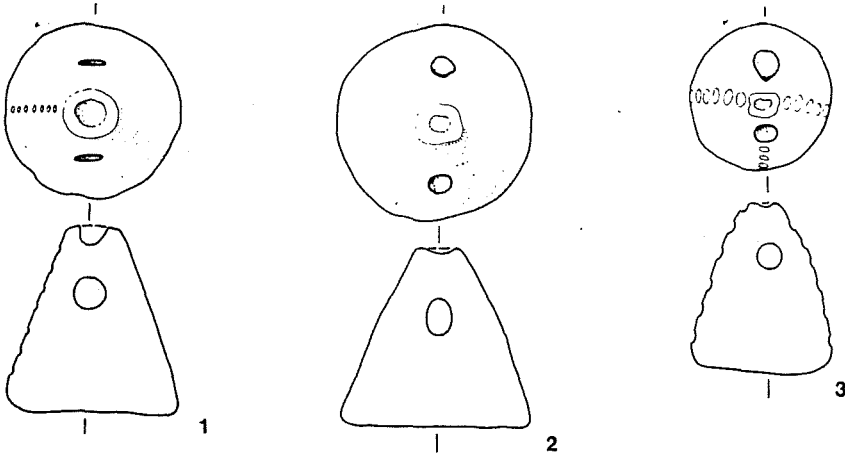


fig 81 Type XXA.
1 : Englum; 2 : Ezinge; 3 : Brillerij.

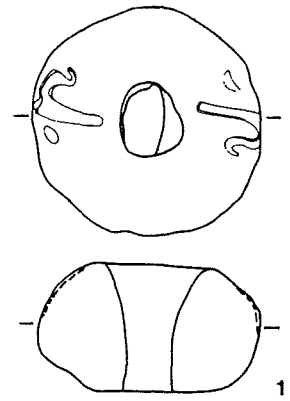


fig 82 Type XXD.
1 : Ezinge.

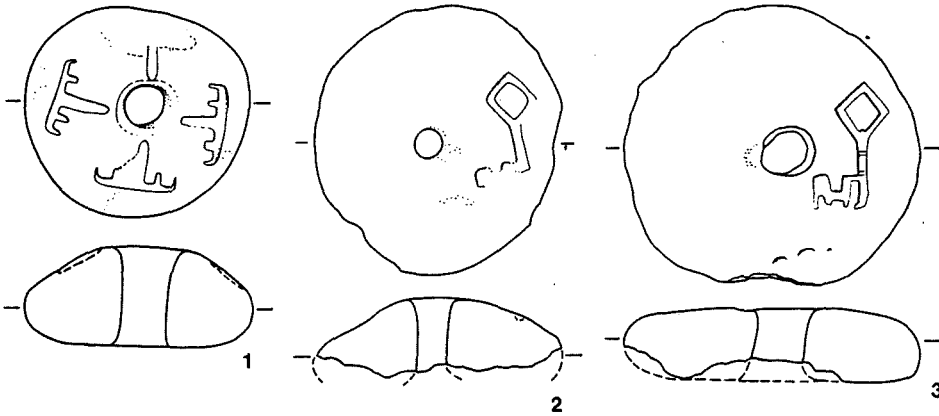


fig 83 Type XXC.
1 : Oostum; 2, 3 : Solwerd.

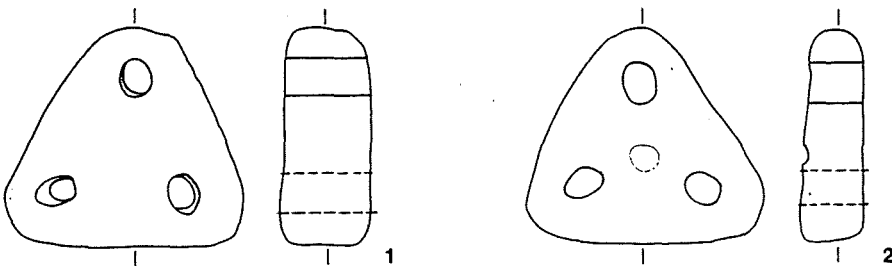


fig 84 Type XXE.
1, 2 : Ezinge; 3 : Joeswerd.

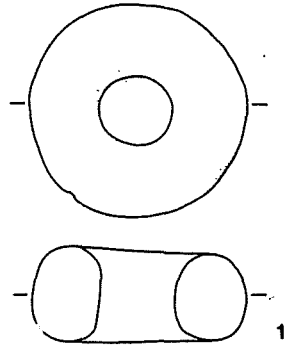
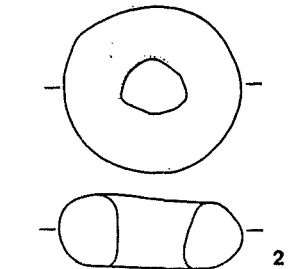


fig 85 Type XXB.
1, 2 : Ezinge.



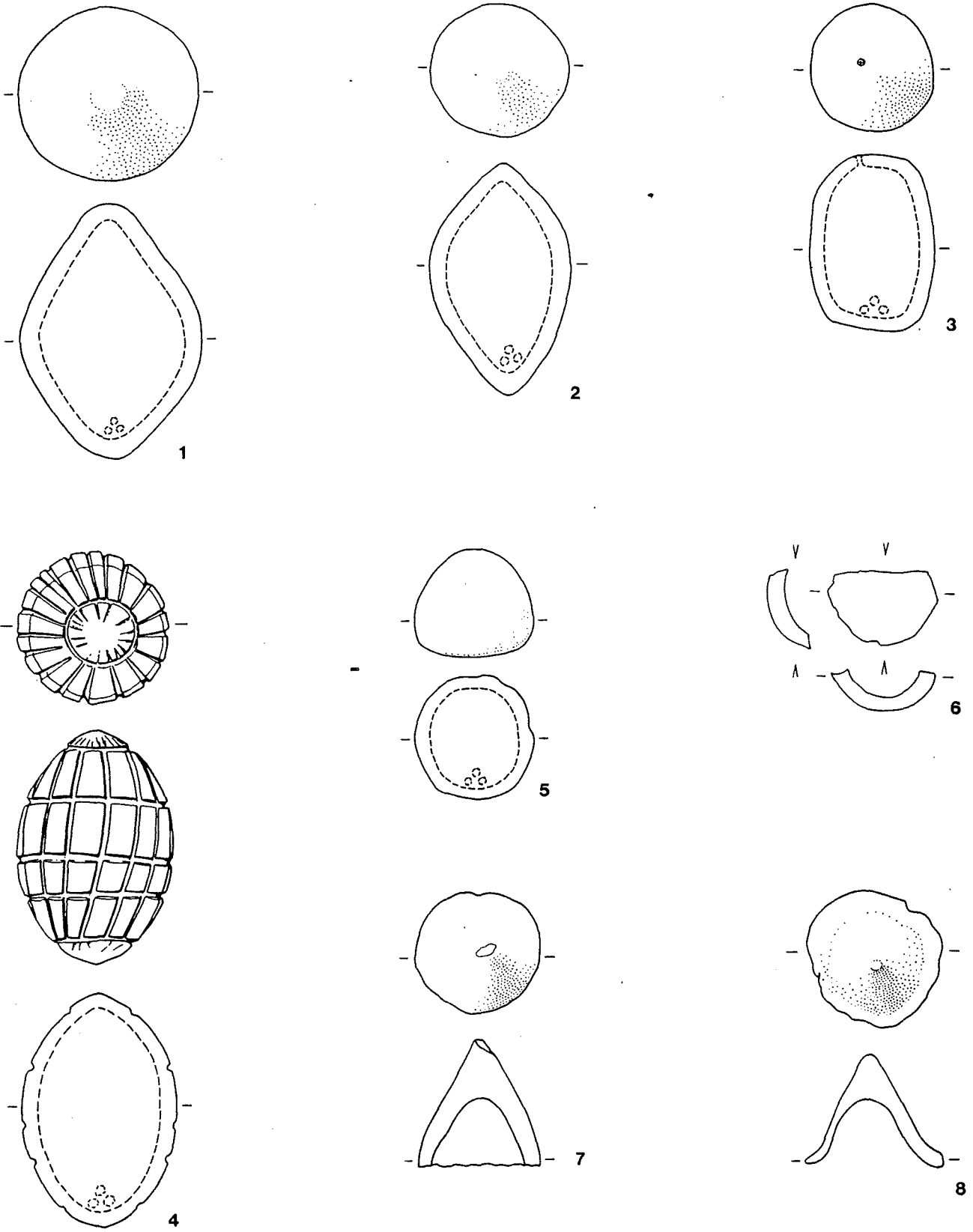


fig 86 Type XXI.

1 : Toornwerd; 2 : Ezinge; 3, 4 : Loppersum; 5 : Oostum; 6 : Garnwerd; 7, 8 : Prov. Groningen.

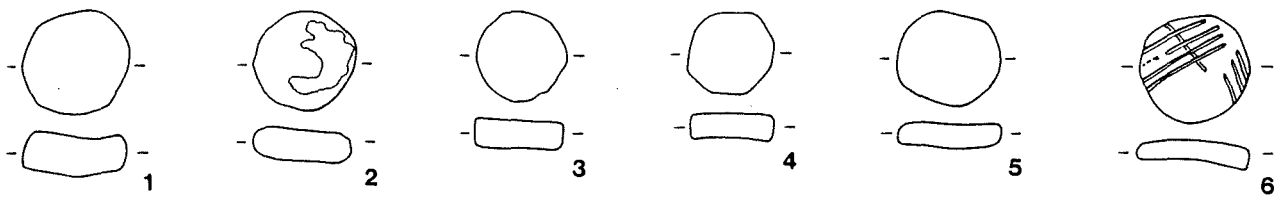


fig 87 Type XXII.
1, 2, 3, 4 : Joeswerd; 5, 6 : Ezinge.

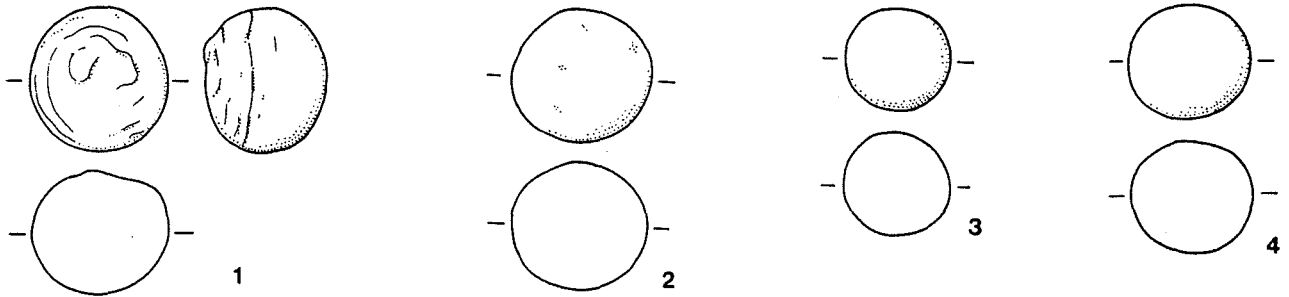


fig 88 Type XXIVA.
1 : Antum; 2, 3, 4 : Joeswerd.

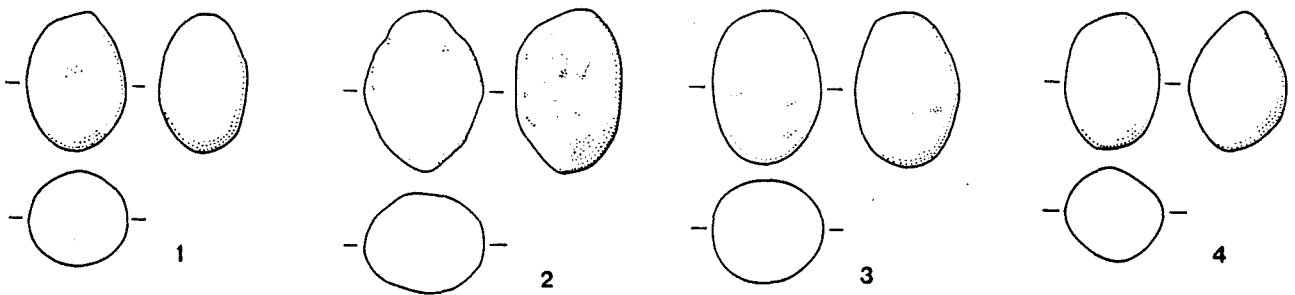


fig 89 Type XXIVB.
1, 2, 3, 4 : Joeswerd.

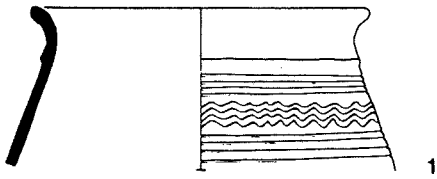


fig 90 Type 4.2.2.1.
1 : Aalsum.

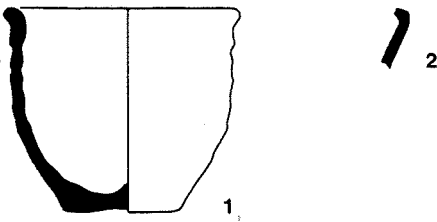


fig 91 Type 4.2.2.2.1.
1 : Franssum; 2 : Wierum;
3 : Garnwerd.

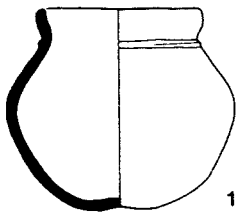


fig 92 Type 4.2.2.2.2.
1 : Garnwerd.

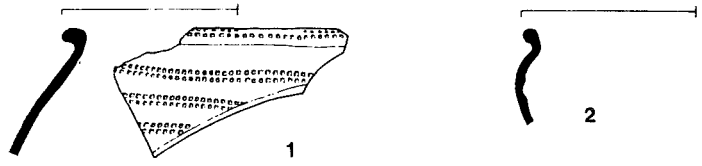


fig 93 Type 4.2.3.
1 : Feerwerd-Z.; 2 : Dorkwerd; 3, 4, 6, 7 : Wierum; 5 : Oostum.

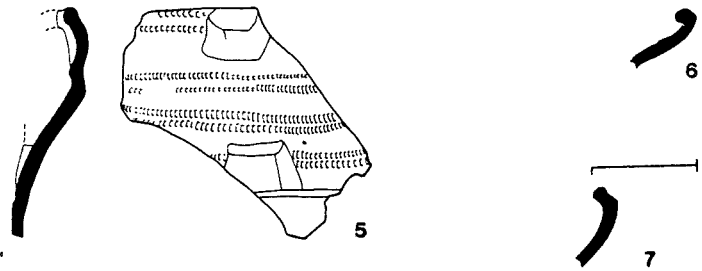
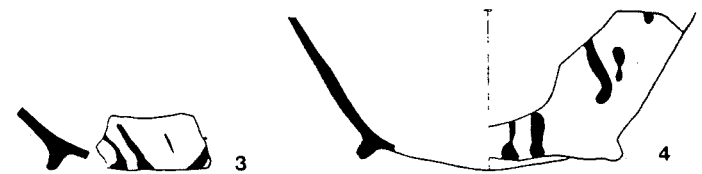
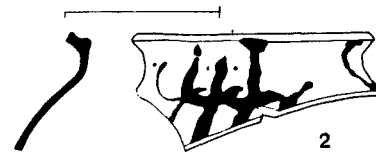


fig 94 Type 4.2.4.
1 : Aalsum; 2 : Feerwerd-Z.; 3, 4 : Adorp II.



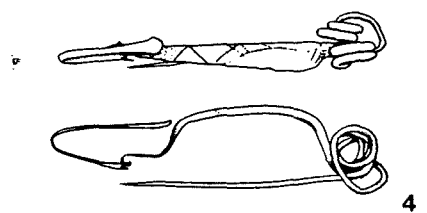
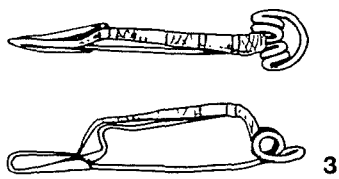
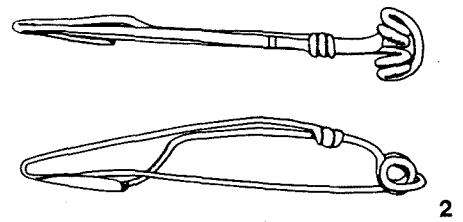
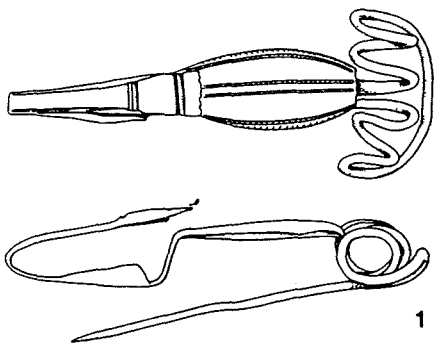


fig 95 Type 5.1.1.1.
1 : Antum; 2 : Ezinge; 3 : Oostum; 4 : Feerwerd-N.

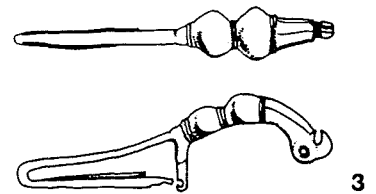
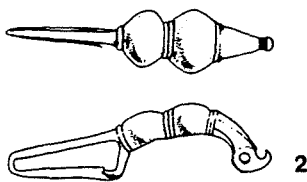
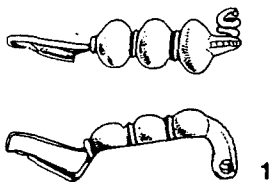


fig 96 Type 5.1.1.2.
1, 2 : Oostum; 3 : Feerwerd N.

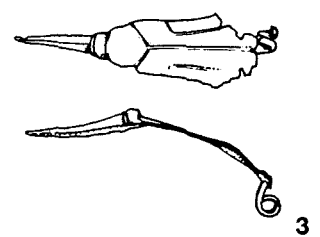
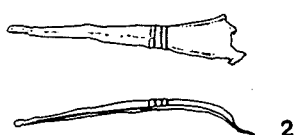
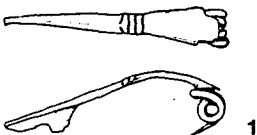


fig 97 Type 5.1.1.3.
1 : Valcum; 2 : Joeswerd; 3 : Aalsum.

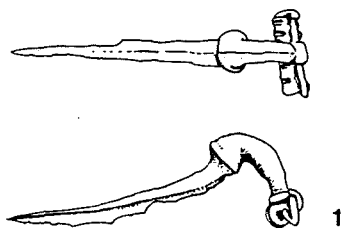


fig 98 Type 5.1.1.4.
1 : Ezinge.



600
fig 99 Type 5.1.1.7.
1, 2 : Ezinge.

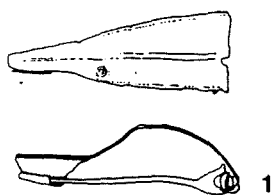
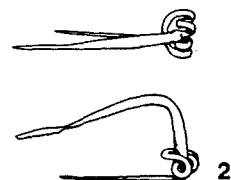


fig 100 Type 5.1.1.6.
1 : Wetsinge.

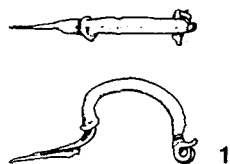


fig 101 Type 5.1.1.8.
1 : Ezinge; 2 : Joeswerd.

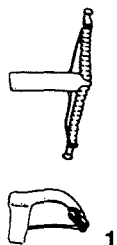
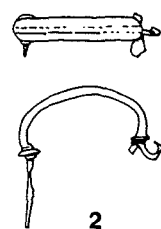


fig 102 Type 5.1.1.9.
1 : Ezinge.

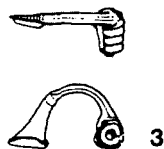


fig 103 Type 5.1.1.10.
1 : Antum; 2 : Ezinge.

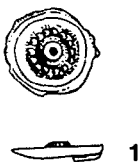
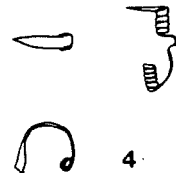


fig 104 Type 5.1.1.11.
1 : Ezinge.

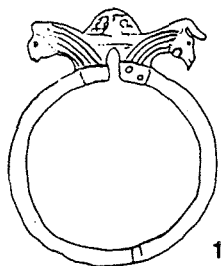
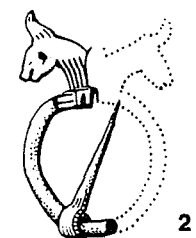


fig 105 Type 5.1.1.15.
1 : Oostum; 2 : Ezinge.



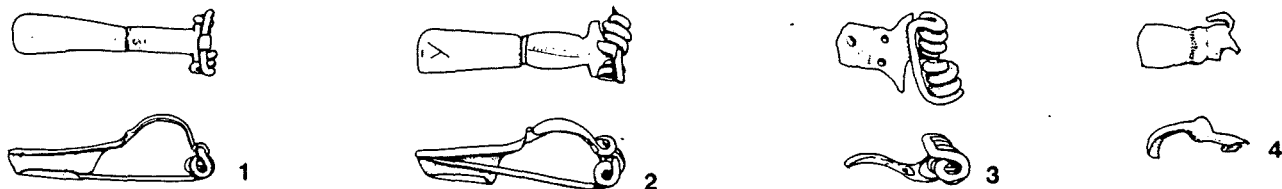


fig 106 Type 5.1.1.5.
1 : Feerwerd-N.; 2 : Ezinge; 3, 4 : Garnwerd.

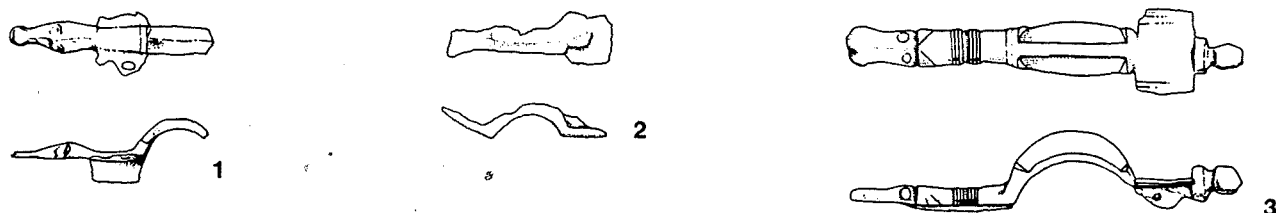


fig 107 Type 5.1.1.14.
1 : Dorkwerd; 2 : Ezinge; 3 : Oostum.

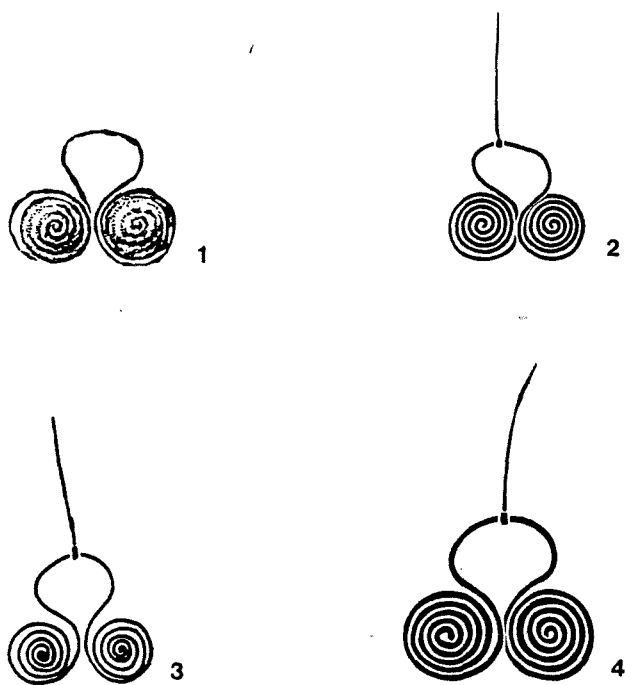


fig 108 Type 5.1.1.12.
1, 2, 3, 4 : Ezinge.

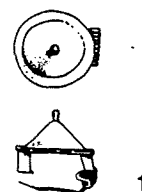


fig 109 Type 5.1.1.13.
1 : Feerwerd-N.

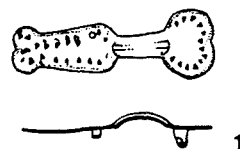


fig 110 Type 5.1.1.16.
1 : Wierum.

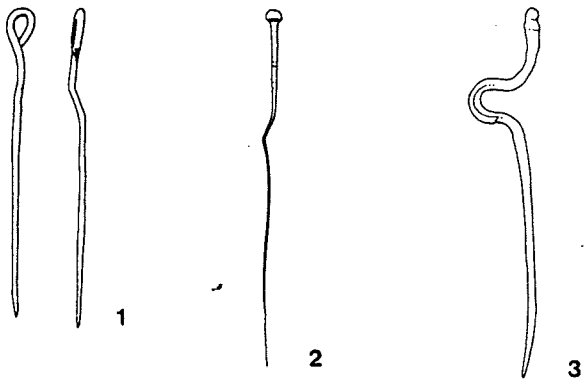


fig 111 Type 5.1.2.1.
1 : Dorkwerk; 2 : Oostum; 3 : Ezinge.

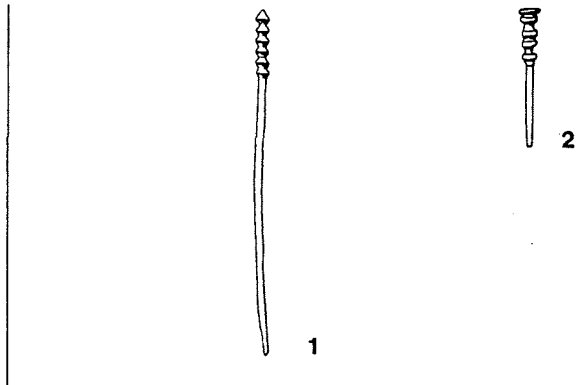


fig 112 Type 5.1.2.2.
1 : Ezinge; 2 : Joeswerd.

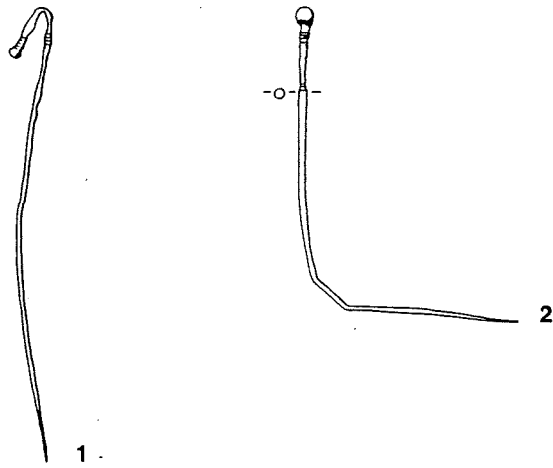


fig 113 Type 5.1.2.4.
1 : Joeswerd; 2 : Wierum.

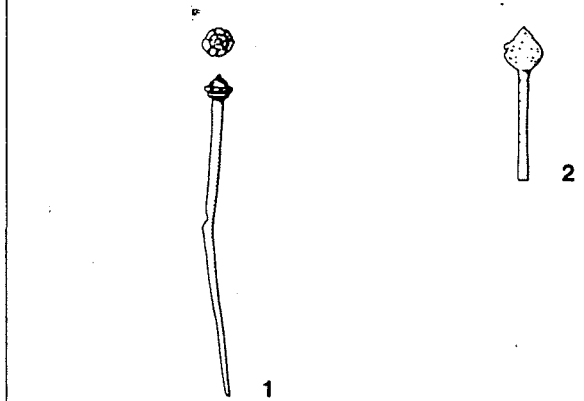


fig 114 Type 5.1.2.8.
1, 2 : Antum.

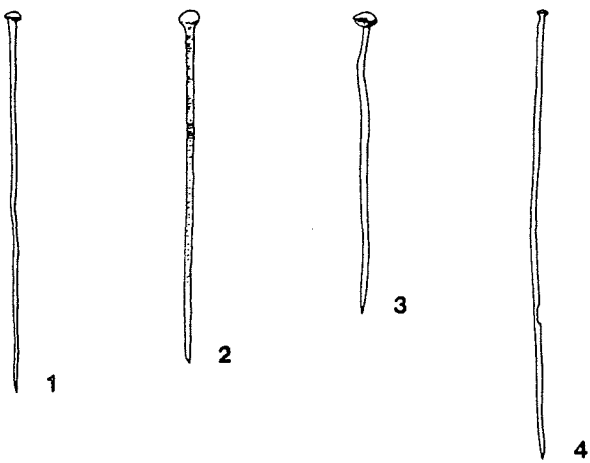


fig 115 Type 5.1.2.6.
1 : Oostum; 2 : Antum; 3 : Ezinge; 4 : Joeswerd.

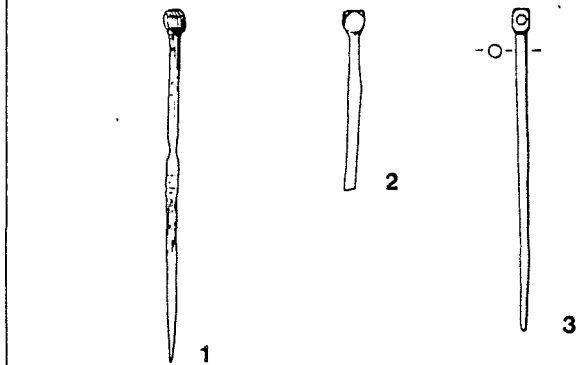


fig 116 Type 5.1.2.7.
1, 2 : Antum; 3 : Joeswerd.



fig 117
Type 5.1.3.3.
1 : Antum.



fig 118 Type 5.1.3.4.
1 : Brillerij.

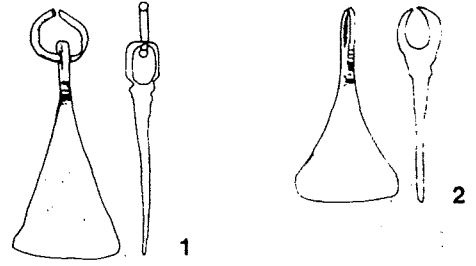


fig 121 Type 5.1.3.5.
1, 2 : Oostum; 3 : Antum; 4 : Wierum.



fig 119
Type 5.1.2.3.
1 : Antum.

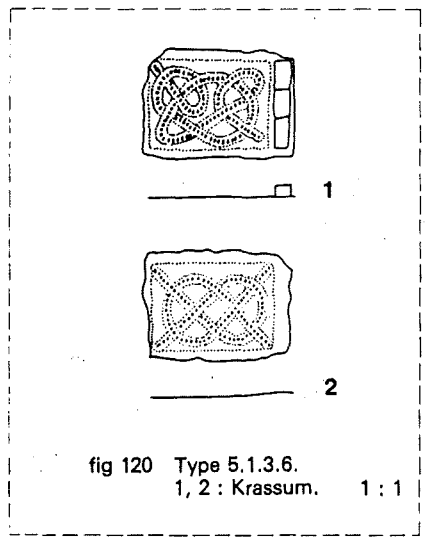


fig 120 Type 5.1.3.6.
1, 2 : Krassum. 1 : 1

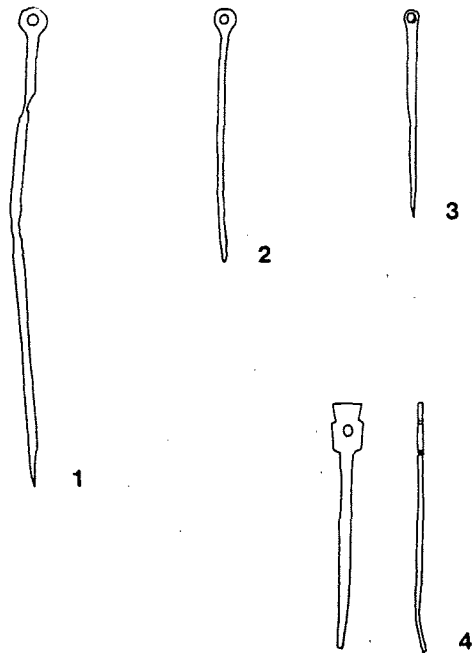
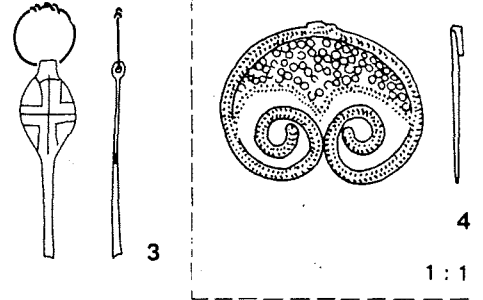


fig 122 Type 5.1.2.10.
1 : Aalsum; 2 : Oostum; 3, 4 : Ezinge.

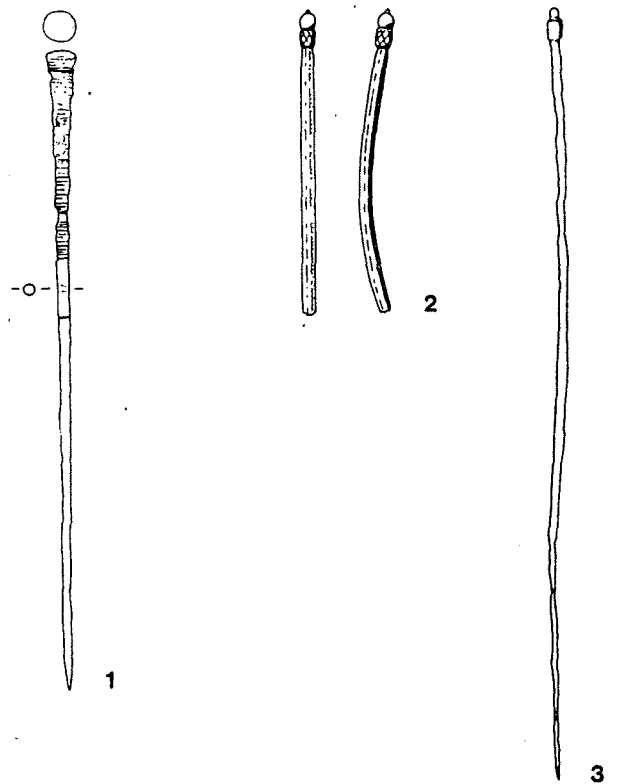


fig 123 Type 5.1.2.5.
1 : Feerwerd-N.; 2 : Antum; 3 : Ezinge. 1 : 2

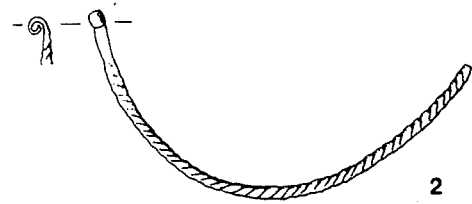
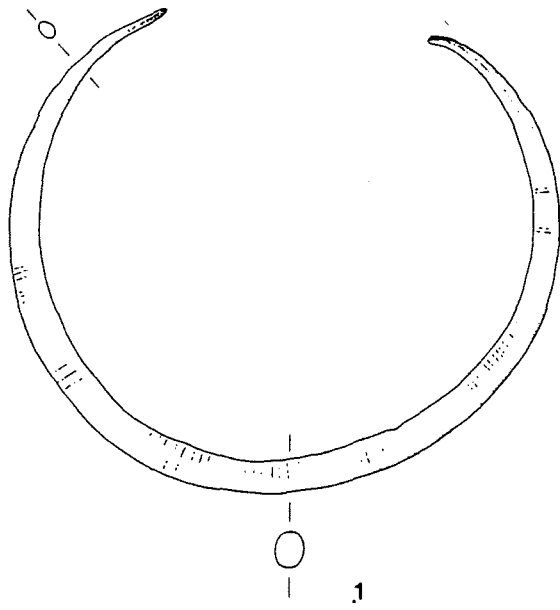


fig 124 Type 5.1.3.1.
1 : Joeswerd; 2 : Ezinge.

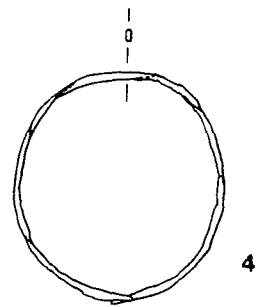
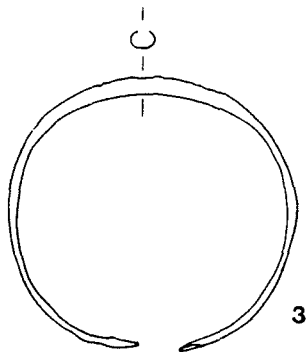
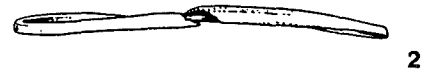
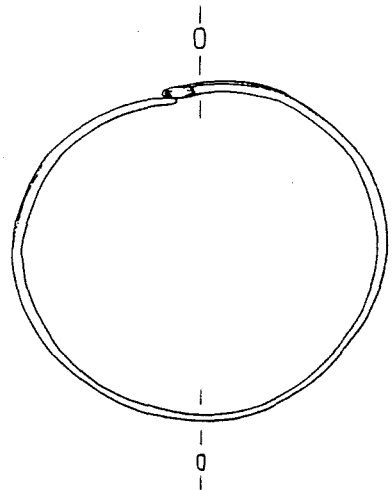
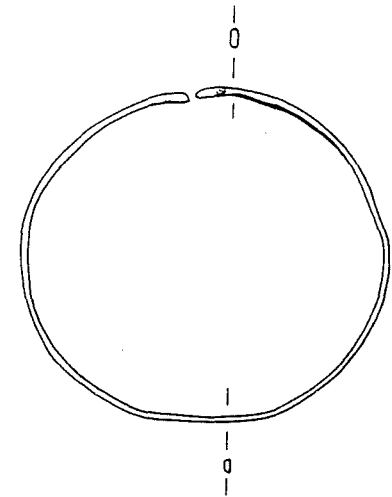


fig 125 Type 5.1.3.2.
1, 2 : Garnwerd; 3 : Feerwerd-N.; 4 : Ezinge.

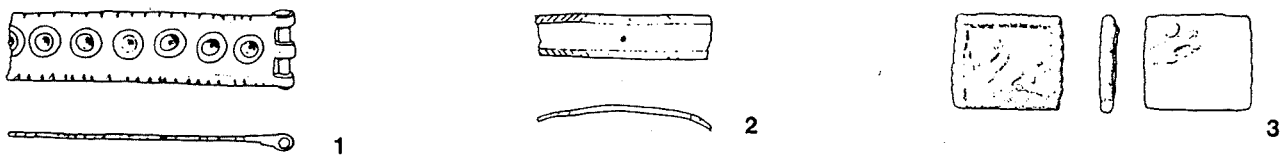


fig 126 Type 5.1.5.1.
1 : Joeswerd; 2, 3 : Ezinge.

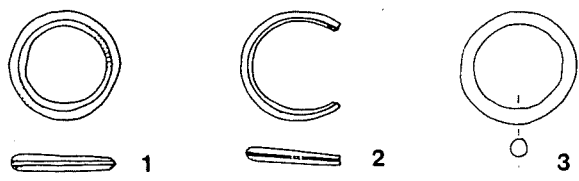


fig 127 Type 5.1.5.2.
1, 3 : Joeswerd; 2 : Feerwerd-N.

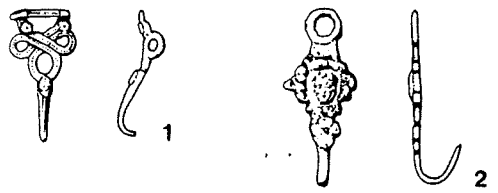


fig 128 Type 5.1.5.4.
1, 2 : Antum.

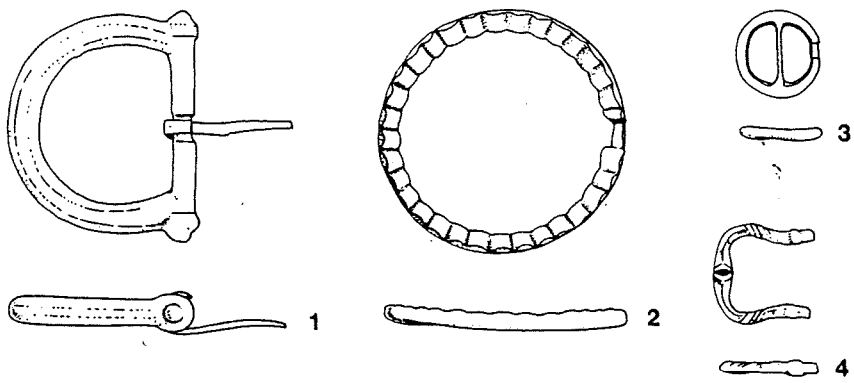


fig 129 Type 5.1.5.3.
1 : Ezinge; 2, 3, 4 : Antum.

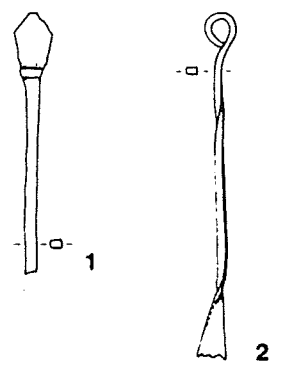


fig 130 Type 5.1.4.2.
1 : Brillerij;
2 : Joeswerd.

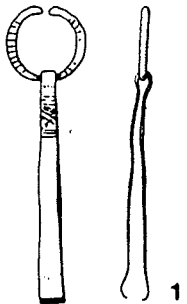
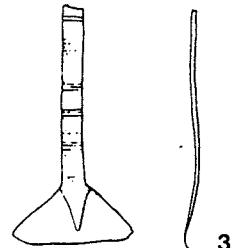
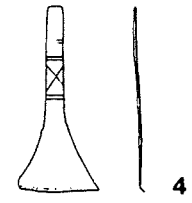


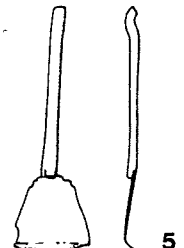
fig 131 Type 5.1.4.1.1.
1 : Oostum; 2 : Wierum.



Type 5.1.4.1.3.
3 : Antum.



Type 5.1.4.1.2.
4 : Antum.



Type 5.1.4.1.4.
5 : Oostum.

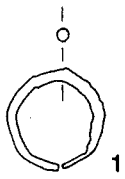


fig 132
Type 5.1.6.1.
1 : Ezinge

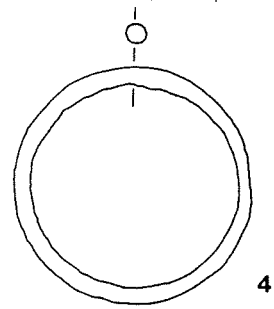
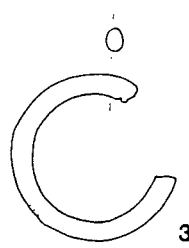
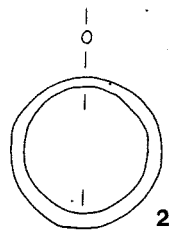
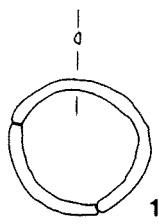


fig 133 Type 5.1.6.2.
1, 2 : Antum; 3 : Joeswerd; 4 : Ezinge.

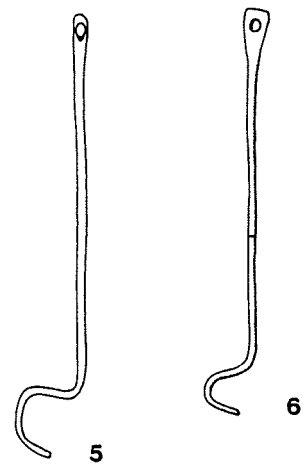
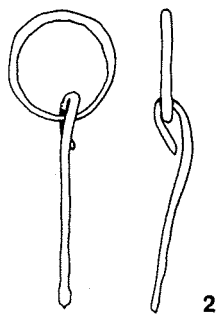
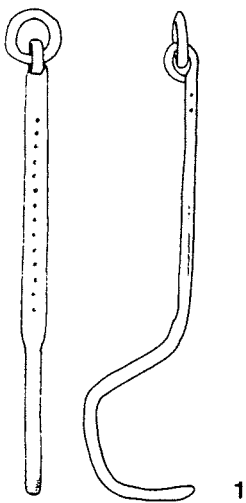


fig 134 Type 5.1.7.1.
1 : Brillerij; 2 : Garnwerd; 3, 6 : Antum; 4, 5 : Ezinge.

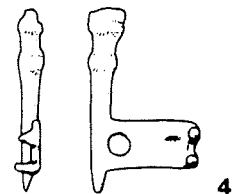
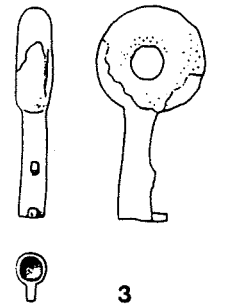
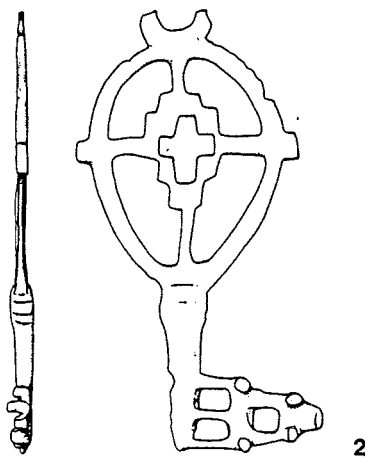
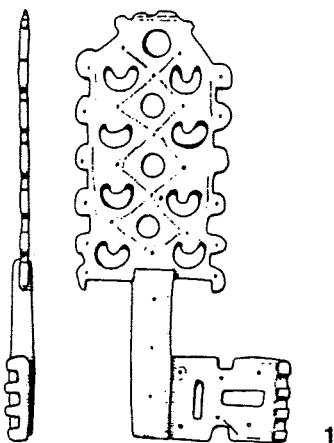


fig 135 Type 5.1.7.2.
1 : Wierum; 2 : Dorkwerd; 3 : Ezinge; 4 : Antum.

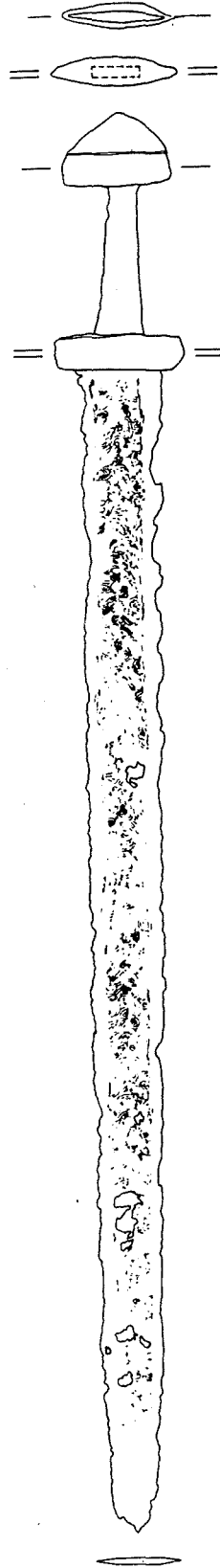
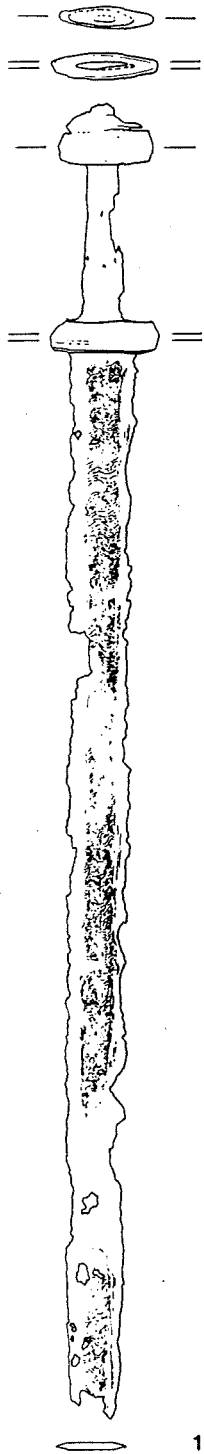


fig 136 Type 5.2.1.1.
1, 2 : Antum.

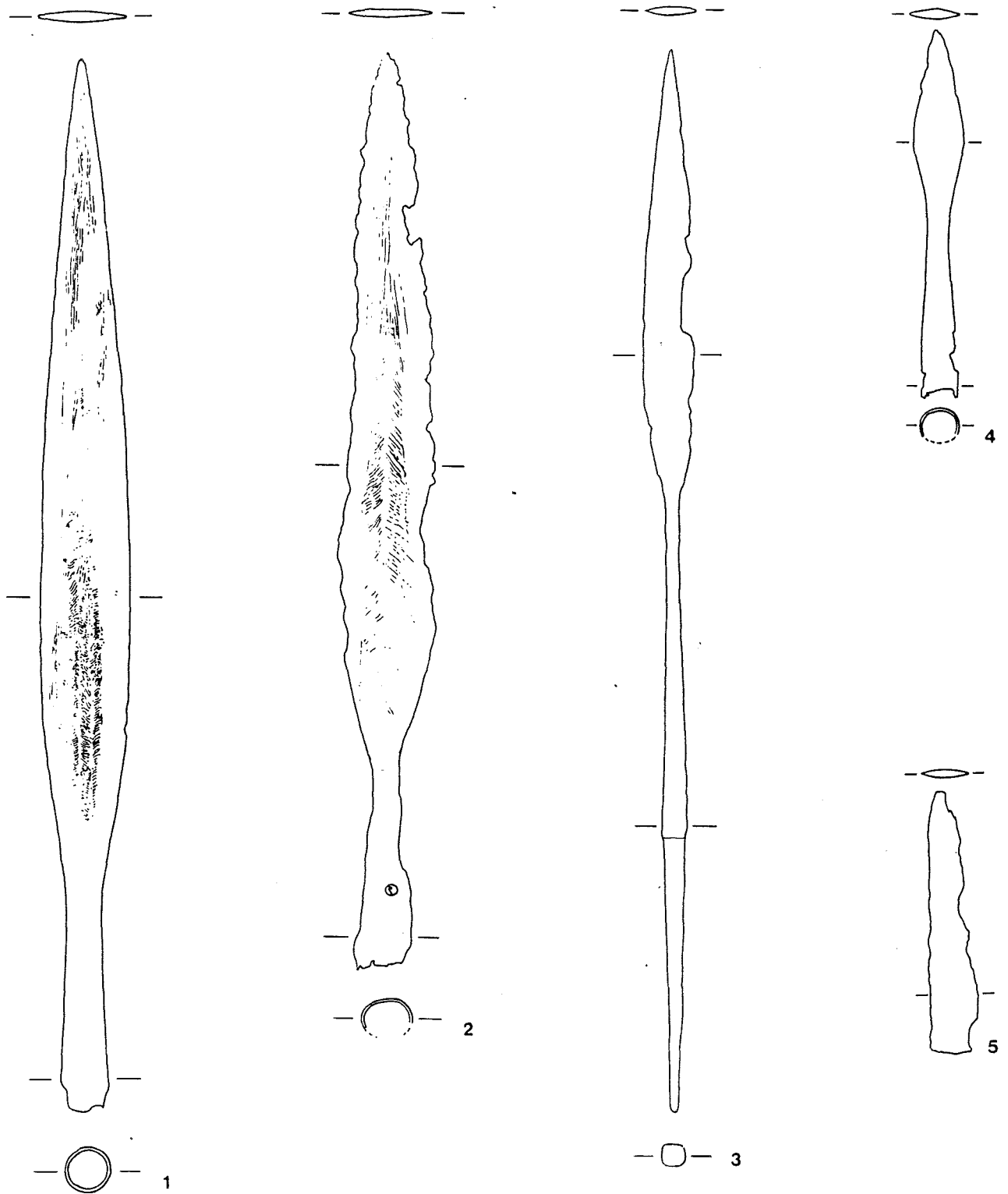


fig 137 Type 5.2.1.2.1.
 1 : Reitdiep; 2 : Antum; 3 : Oostum; 4 : Dorkwerd; 5 : Wierum.

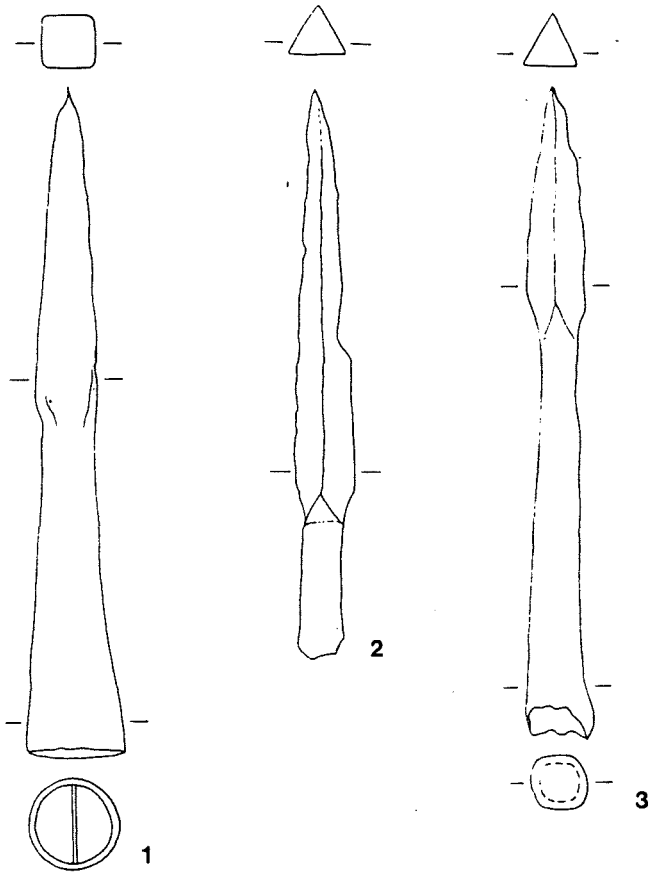
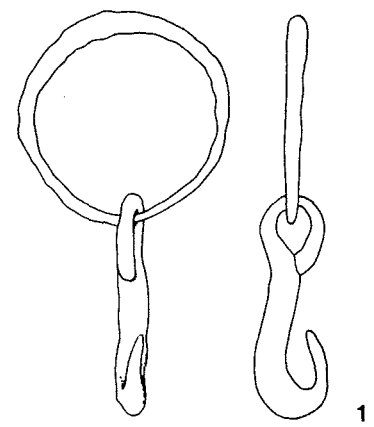
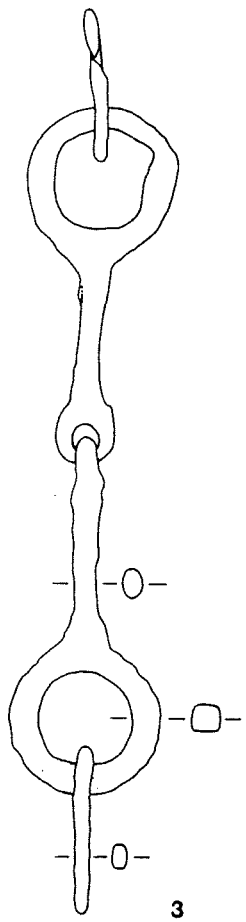


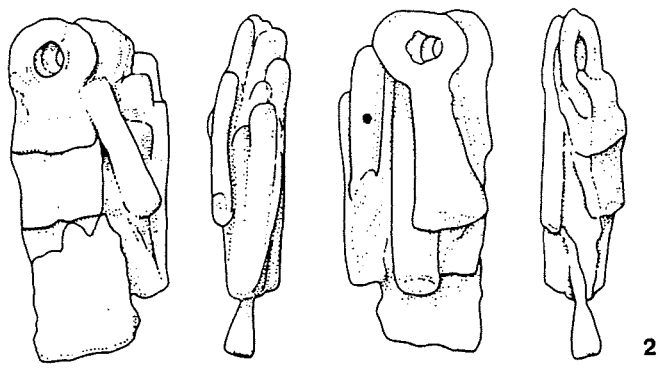
fig 138 Type 5.2.1.2.2.
1, 3 : Antum; 2 : Oostum.



1



3



2

fig 139 Type 5.2.2.2.
1 : Oostum; 2, 3 : Ezinge.

1 : 2

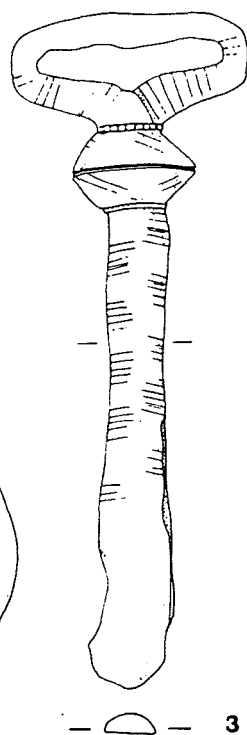
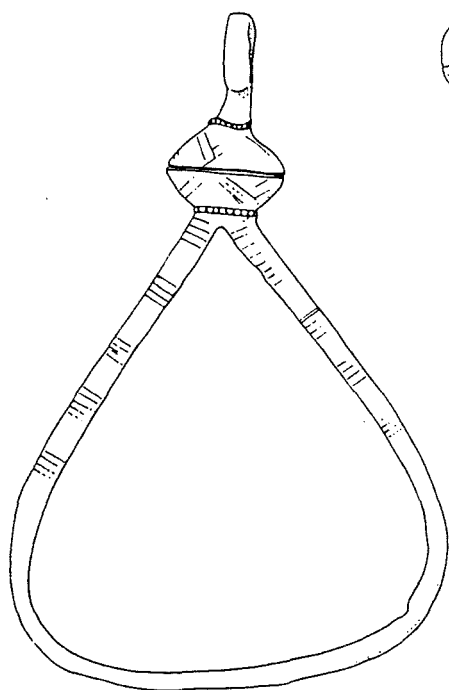
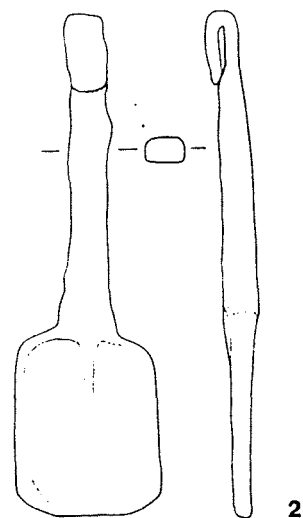
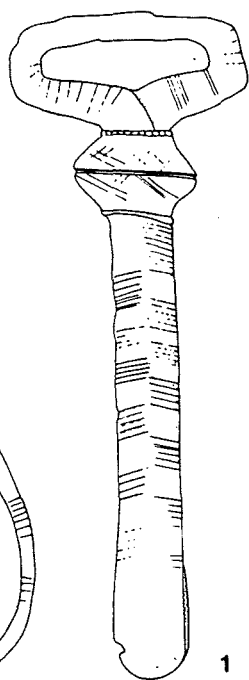
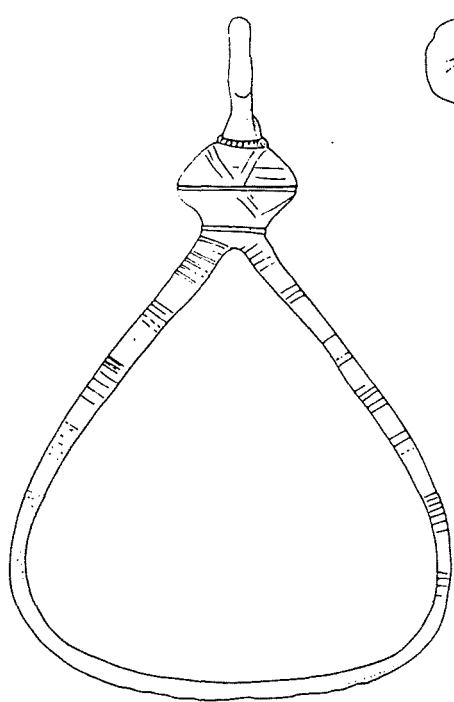


fig 140 Type 5.2.2.1.
1, 3 : Antum; 2 : Garnwerd.

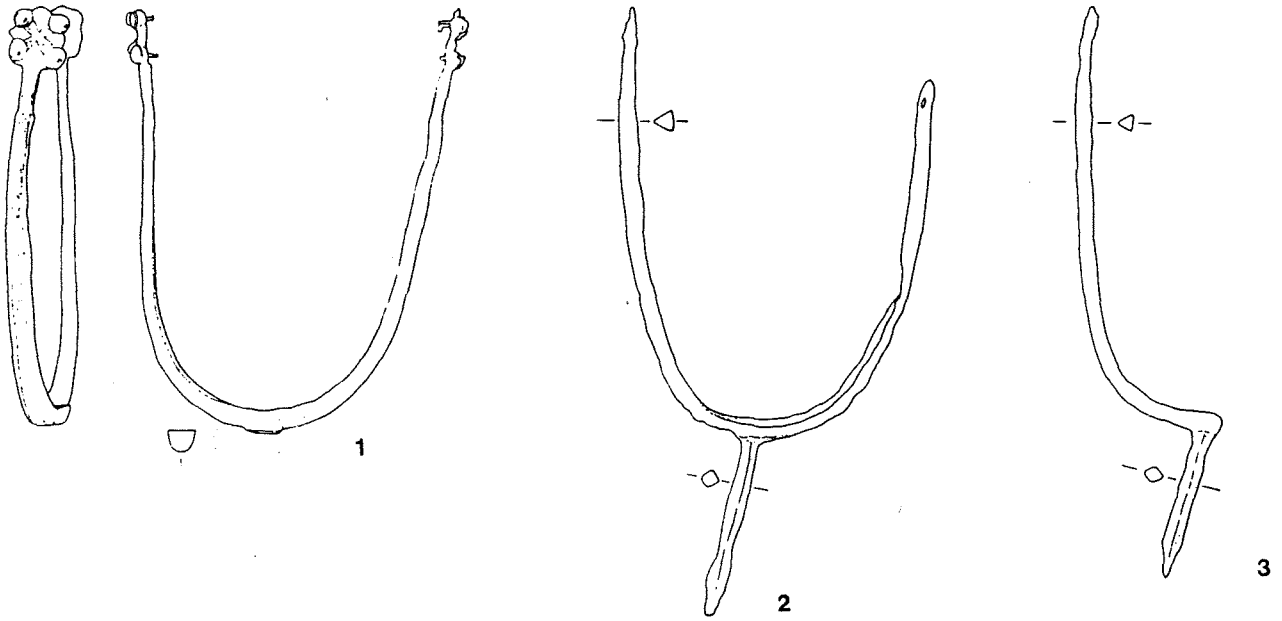


fig 141 Type 5.2.3.1.1.
1 : Joeswerd; 2, 3 : Garnwerd.

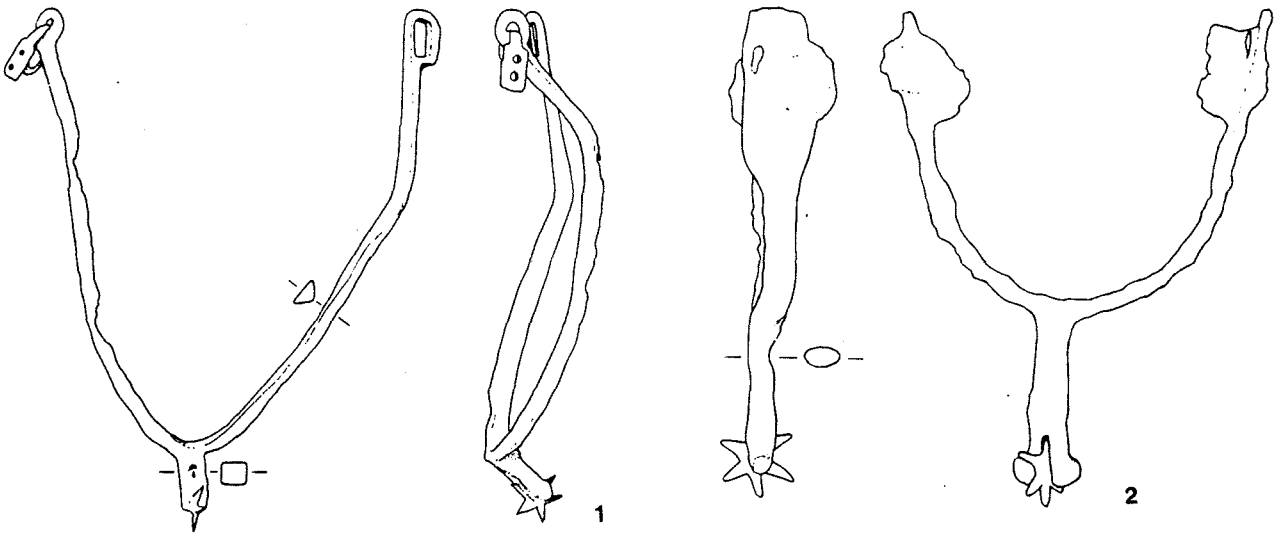


fig 142 Type 5.2.3.1.2.
1: Wierum; 2 : Joeswerd.

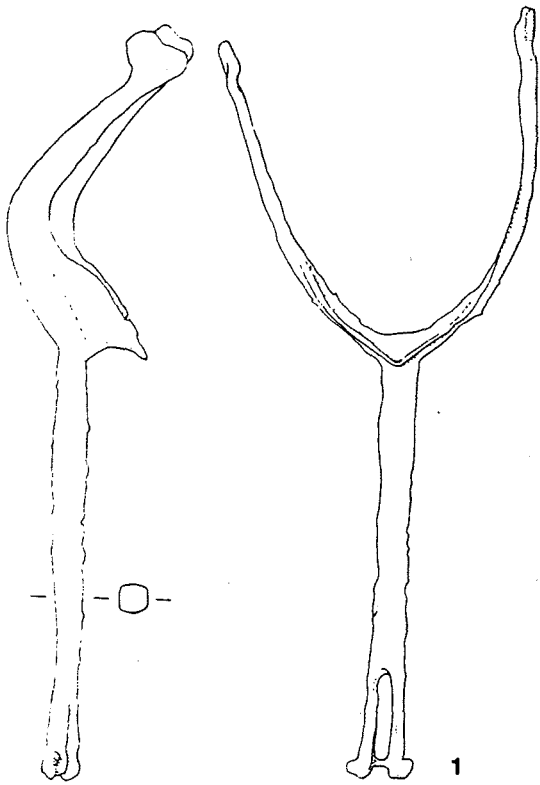


fig 143 Type 5.2.3.1.2.
1 : Den Ham.

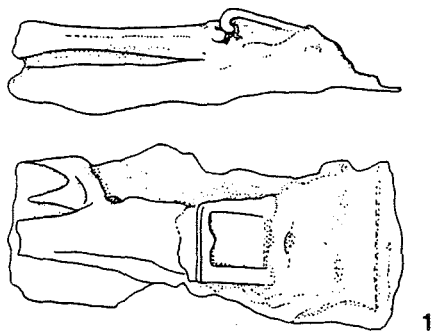


fig 144 Type 5.2.3.2.
1 : Ezinge.

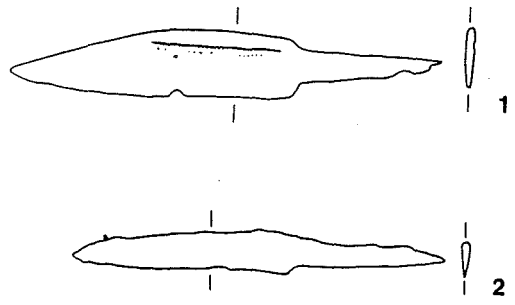


fig 145 Type 5.2.4.1.1.
1 : Oostum; 2 : Ezinge.

881

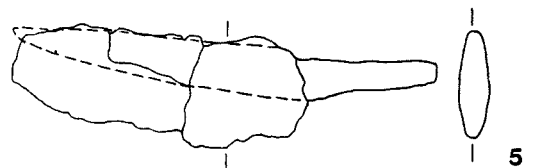
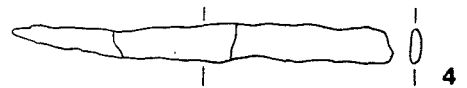
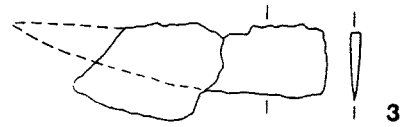
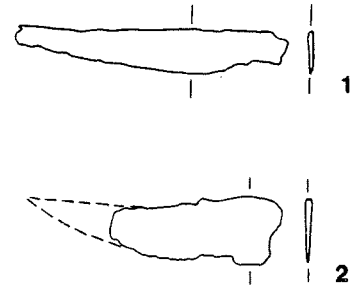


fig 146 Type 5.2.4.1.2.
1 : Joeswerd; 2, 3 : Aalsum; 4, 5, 6 : Bauwert.

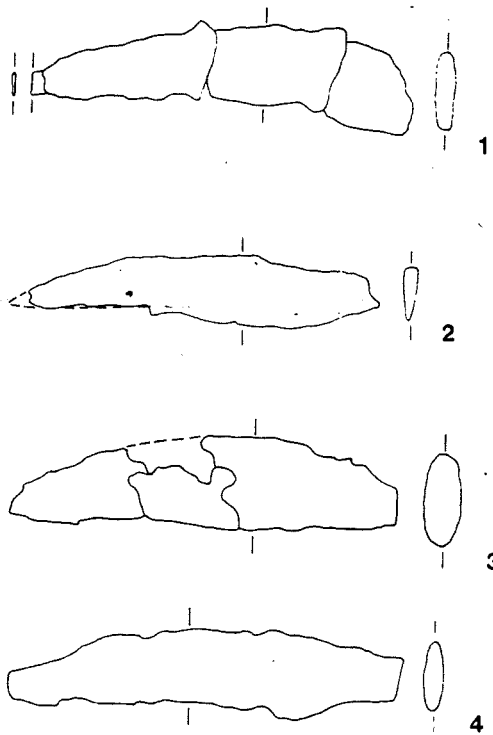


fig 147 Type 5.2.4.1.3.
1, 2, 3, 4 : Bauwert.

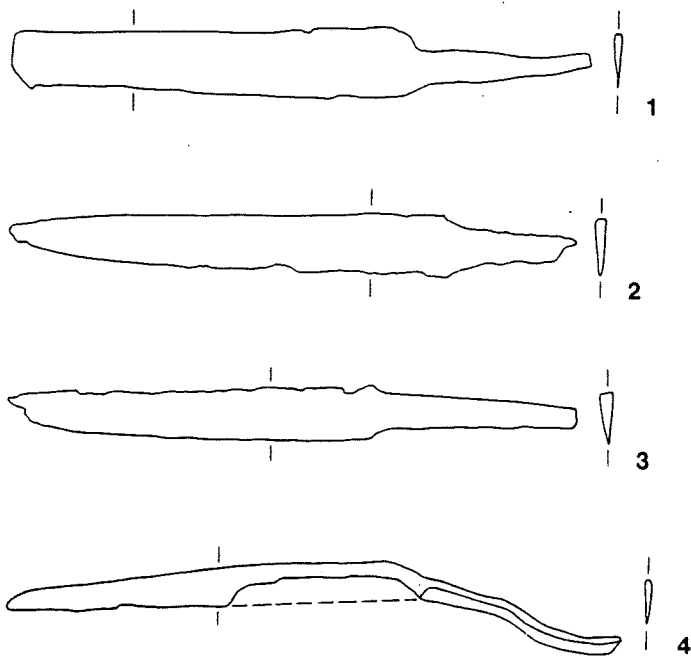


fig 149 Type 5.2.4.1.5.
1 : Antum; 2, 4 : Wierum; 3 : Joeswerd.

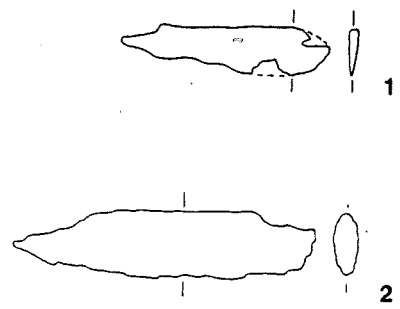


fig 148 Type 5.2.4.1.4.
1 : Joeswerd; 2 : Bauwert.

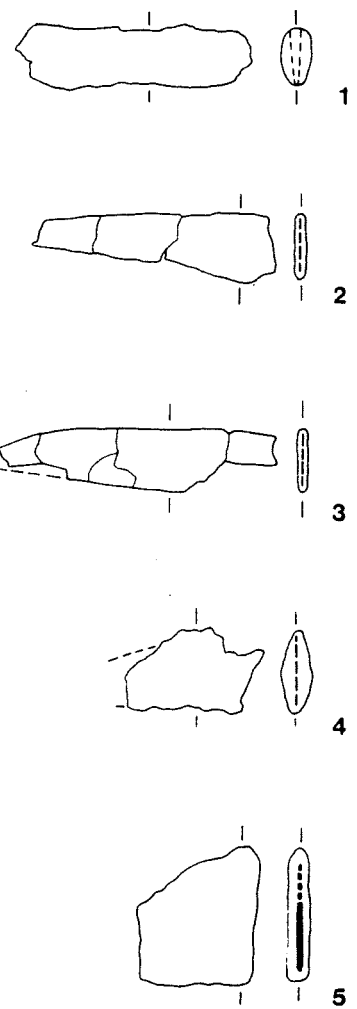


fig 150 5.2.4.1.6.
1 : Wierum; 2, 3, 4, 5 : Aalsum. 1 : 2

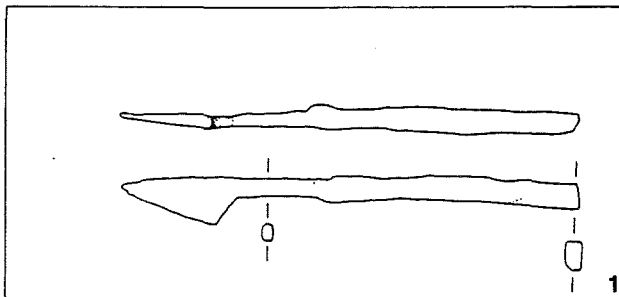
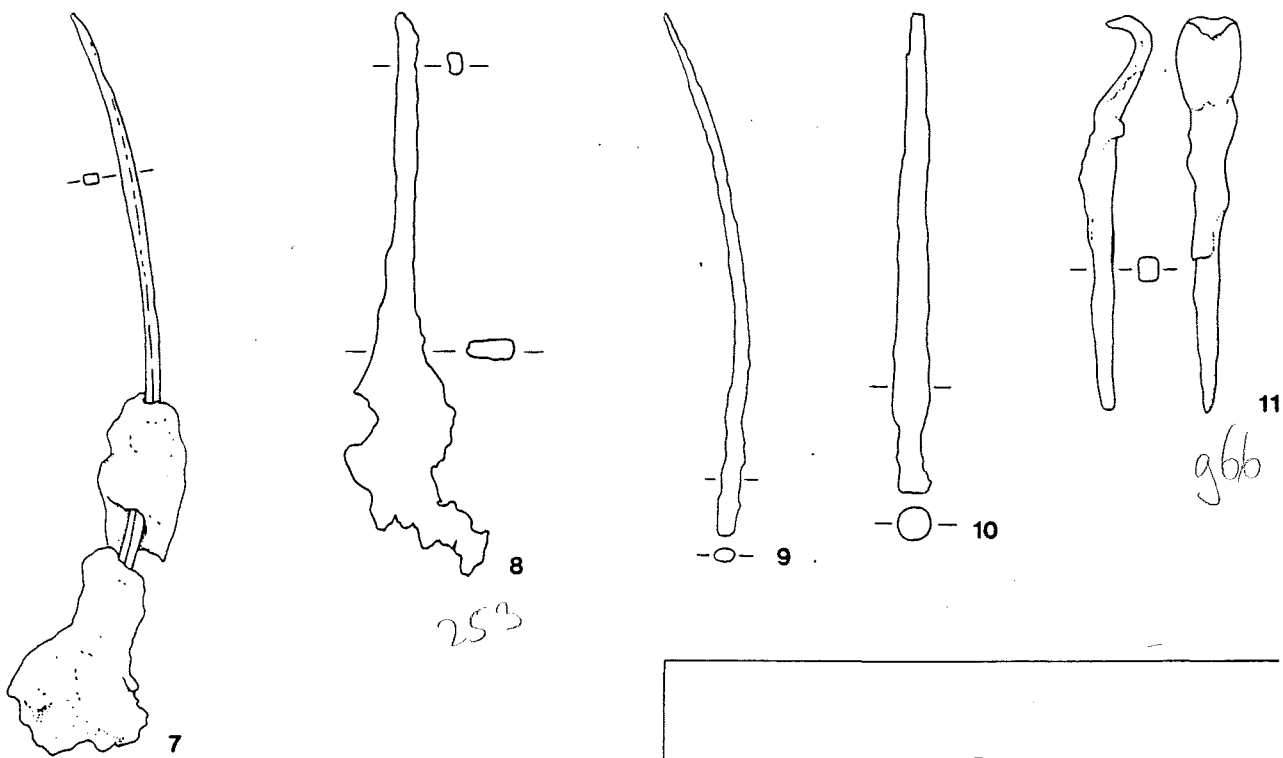
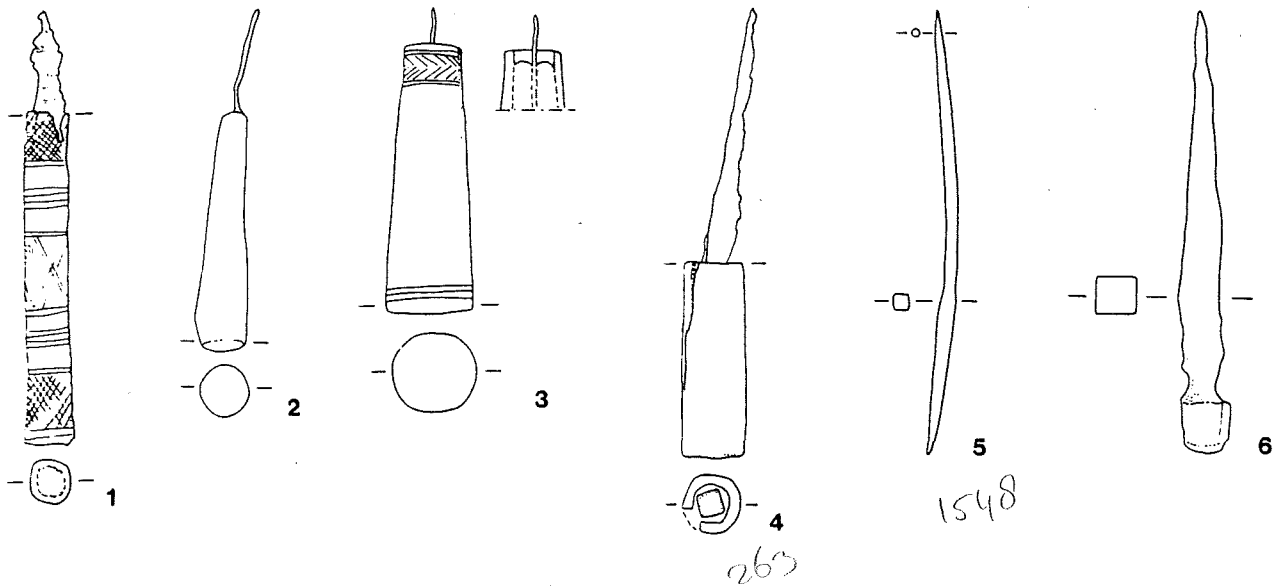


fig 151 Type 5.2.4.2.
 1 : Bauwert; 4, 5, 8, 11 : Ezinge; 2, 6 : Oostum;
 3 : Antum; 7, 9 : Garnwerd; 10 : Wierum.

fig 152 Type 5.2.4.1.7.
 1 : Ezinge.

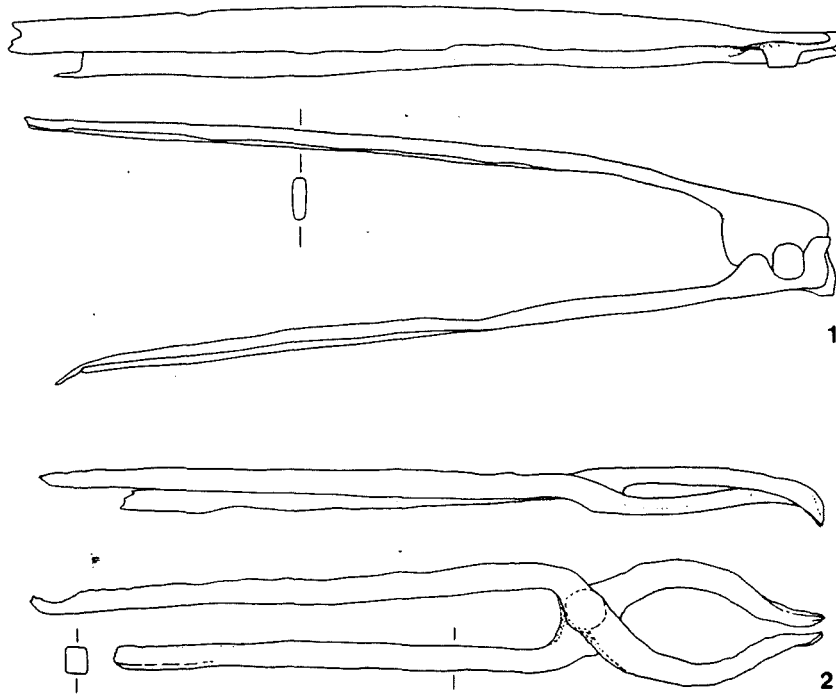


fig 153 Type 5.2.4.3.
1 : Antum; 2 : Garnwerd.

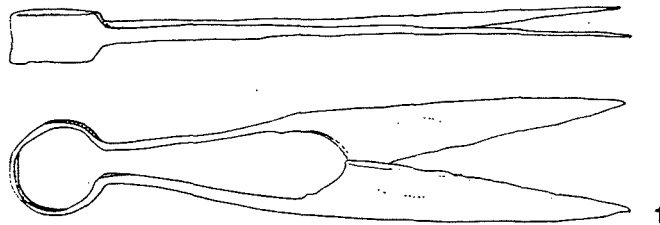


fig 154 Type 5.2.4.4.
1 : Dorkwerd.

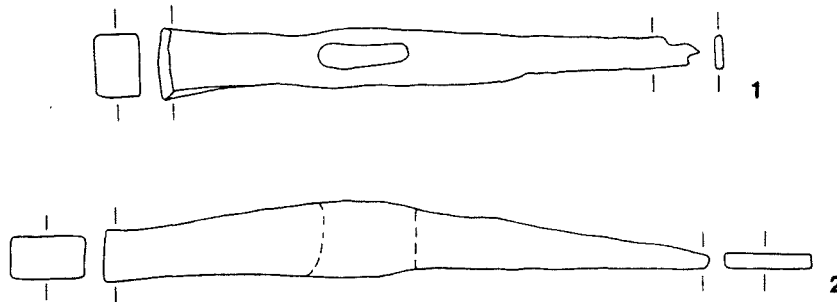


fig 155 Type 5.2.4.5.
1 : Antum; 2 : Garnwerd.

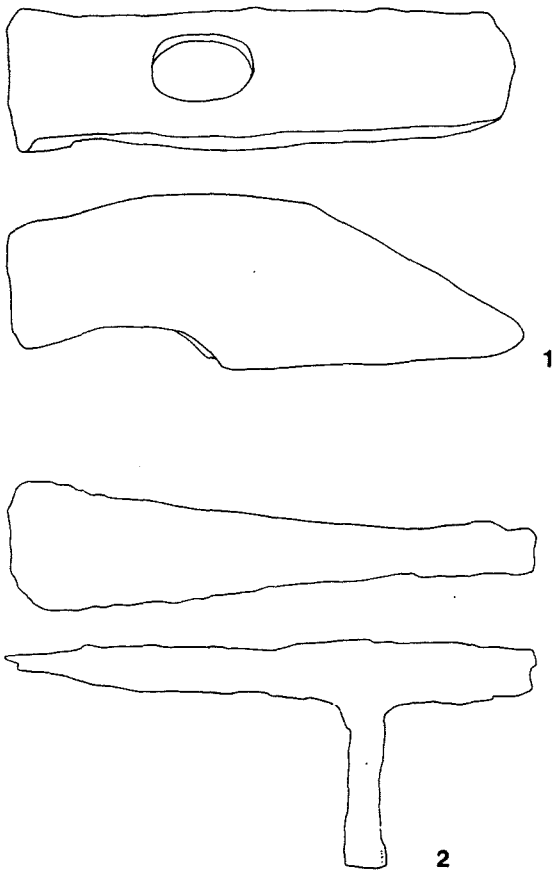


fig 156 Type 5.2.4.6.
1 : Oostum; 2 : Ezinge.

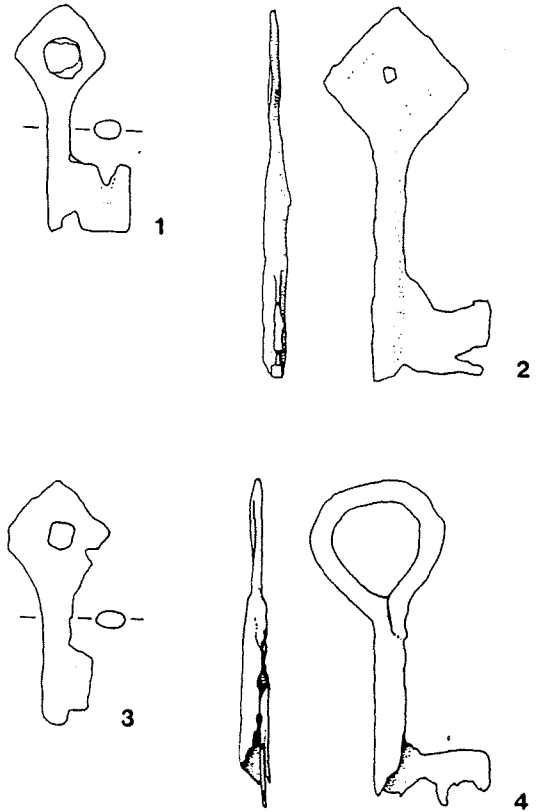


fig 157 Type 5.2.5.1.3.
1, 3 : Wierum; 2 : Hoogkerk; 4 : Dorkwerd.

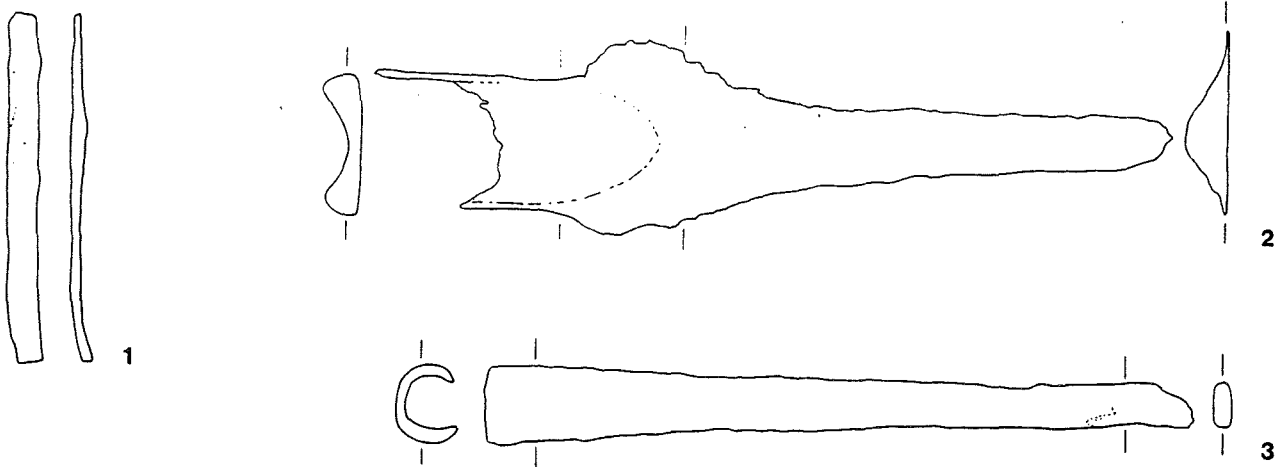


fig 158 Type 5.2.6.2.
1 : Dorkwerd; 2 : Antum; 3 : Ezinge.

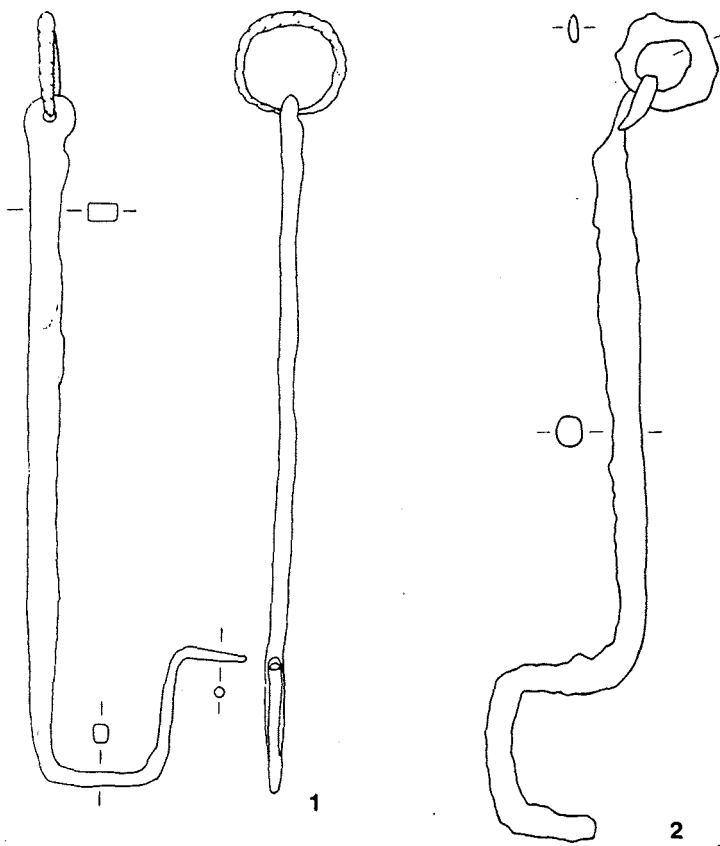


fig 159 Type 5.2.5.1.1.
1 : Aalsum; 2 : Ezinge.

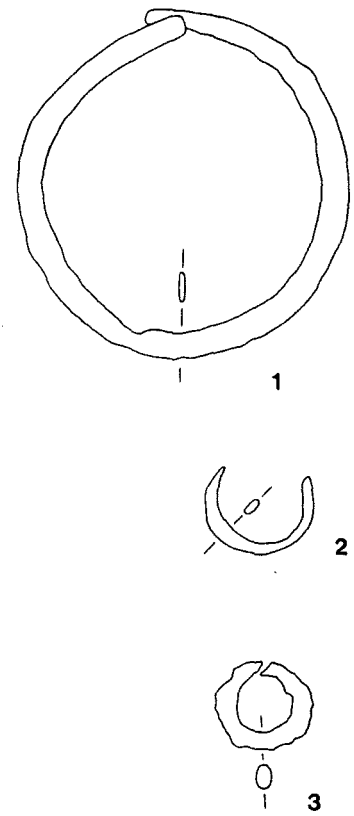


fig 161 Type 5.2.6.1.
1 : Feerwerd-Z.; 2 : Garnwerd;
3 : Bauwert.

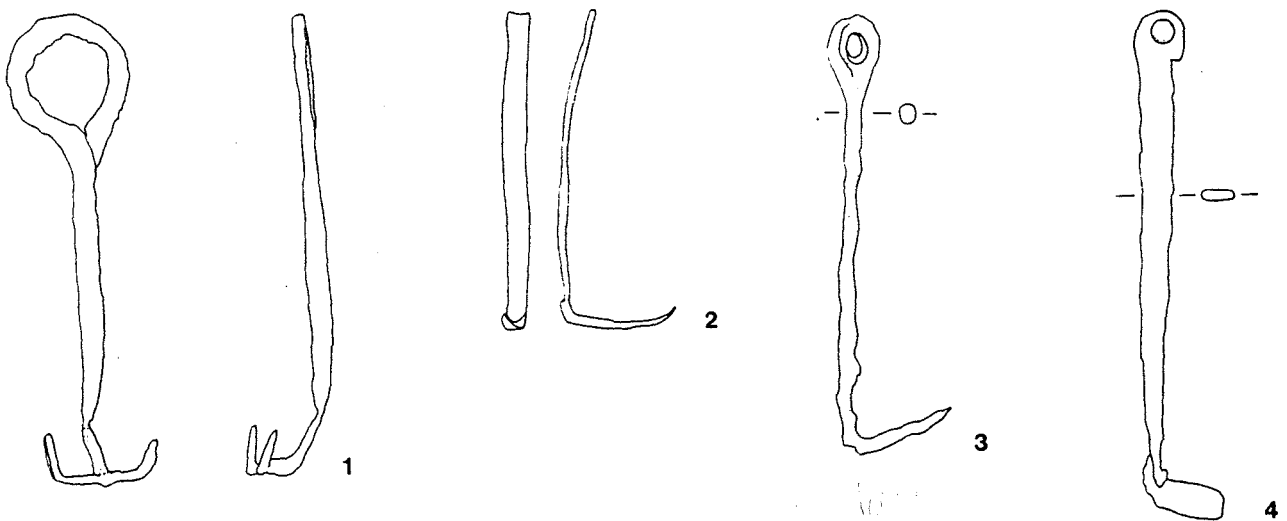
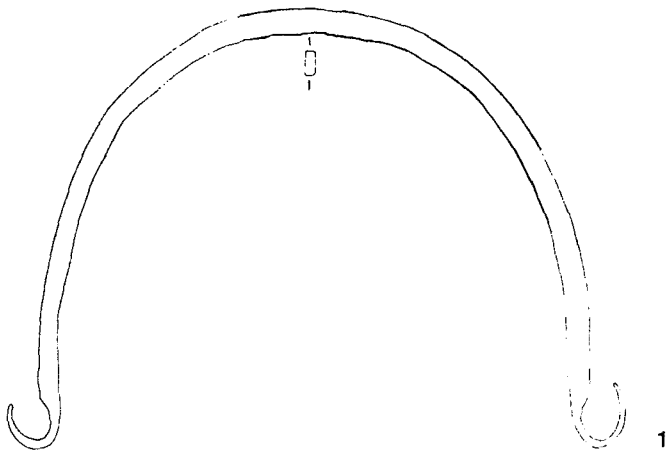
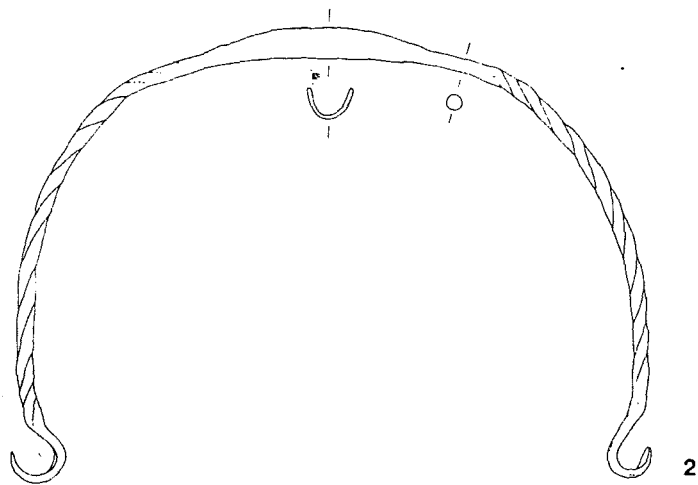


fig 160 Type 5.2.5.1.2.
1 : Aalsum; 2 : Oostum;
3 : Ezinge; 4 : Bauwert.

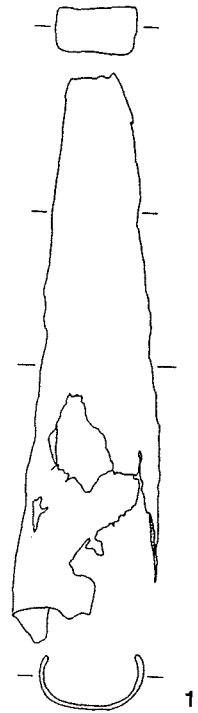


1



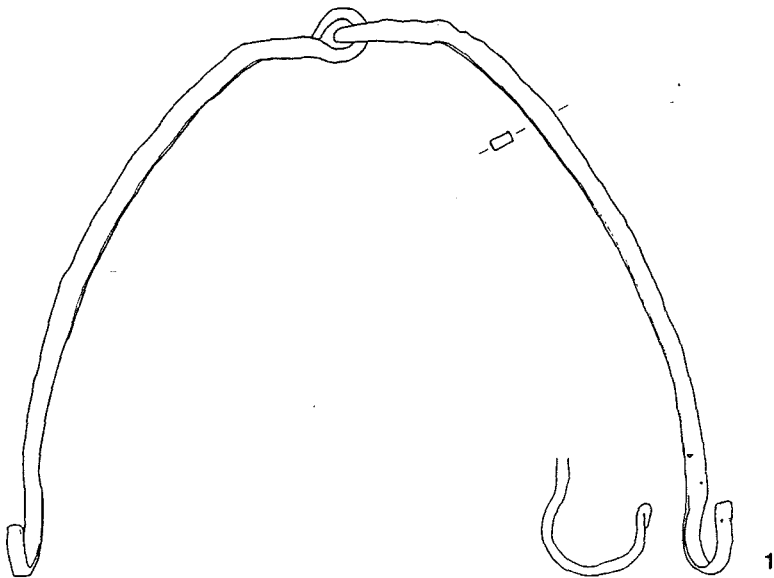
2

fig 162 Type 5.2.5.2.1.
1 : Dorkwerd; 2 : Antum.



1

fig 164 Type 5.2.4.7.
1 : Ezinge.



1

fig 163 Type 5.2.5.2.2.
1 : Oostum.

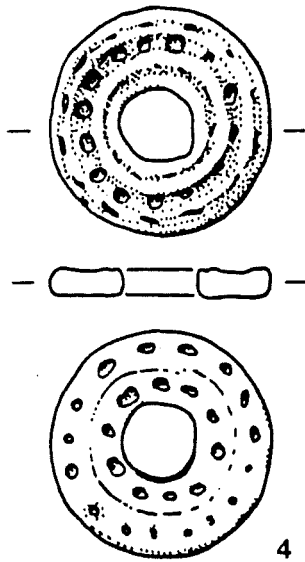
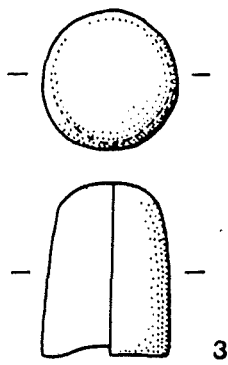
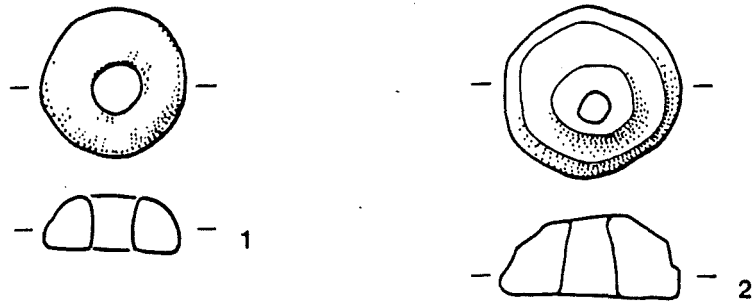
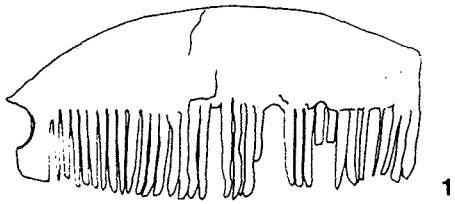
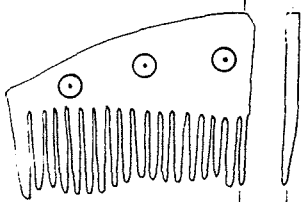


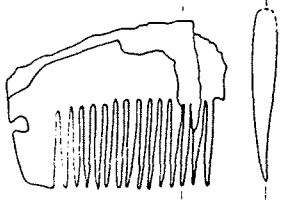
fig 165 Type 5.4.1.
1, 4 : Dorkwerd; 2 : Groningen-stad; 3 : Ezinge.



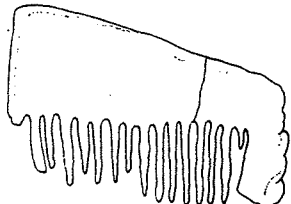
1



2

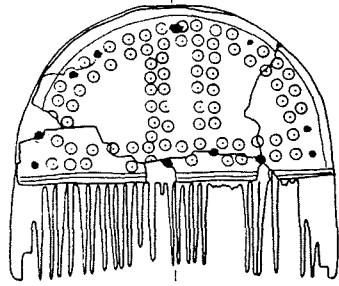


3



4

fig 166 Type 6.1.1.1.1.
1, 2, 3, 4 : Ezinge.



1

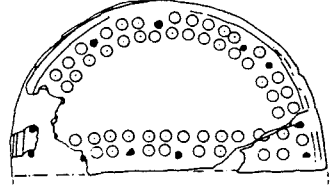
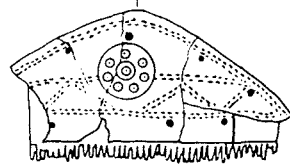
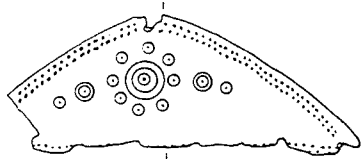
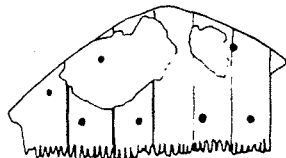


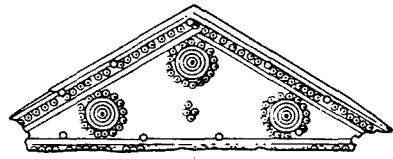
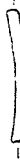
fig 167 Type 6.1.1.1.2.1.
1 : Ezinge.



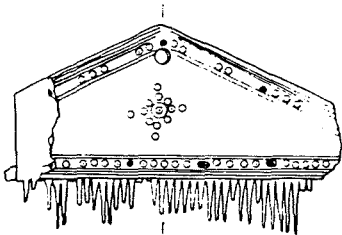
1



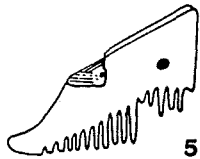
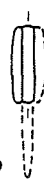
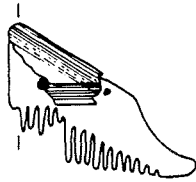
3



2

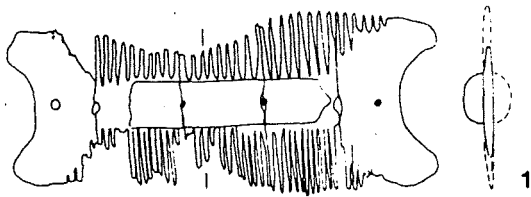


4

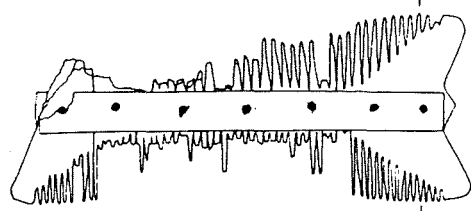


5

fig 168 Type 6.1.1.1.2.2.
1, 3, 4 : Ezinge; 2 : Wierum; 5 : Garnwerd.

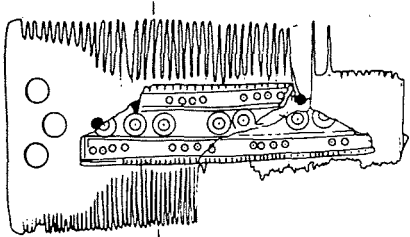


1

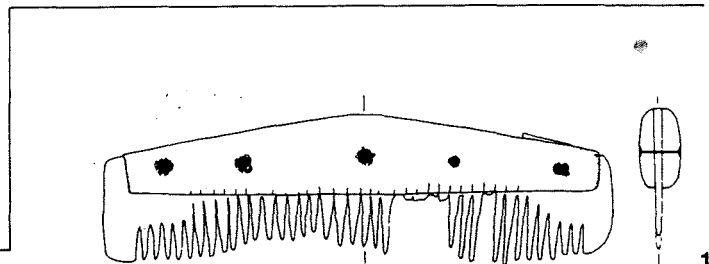


2

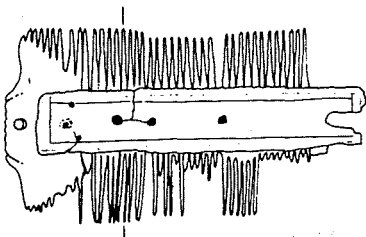
fig 169 Type 6.1.1.1.2.3.
1 : Garnwerd; 2, 4, 5, 6 : Ezinge;
3 : Aalsum; 7 : Wierum.



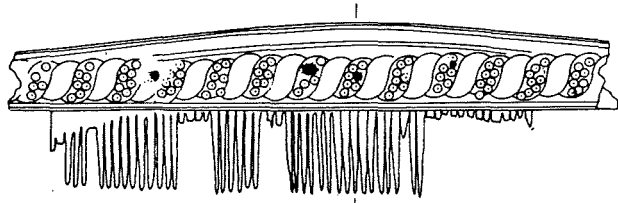
3



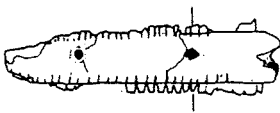
1



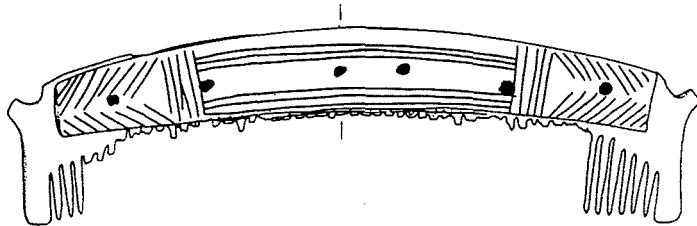
4



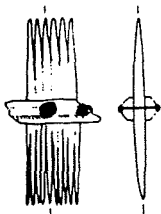
2



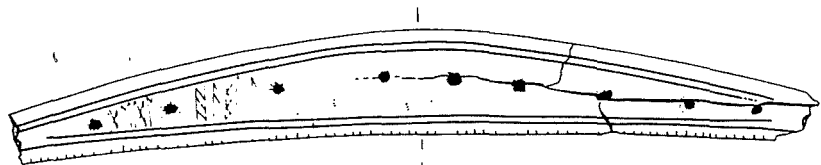
5



3



6



4



7

fig 170 Type 6.1.1.1.2.4.1.
1, 4 : Oostum; 2 : Aalsum; 3 : Valcum.

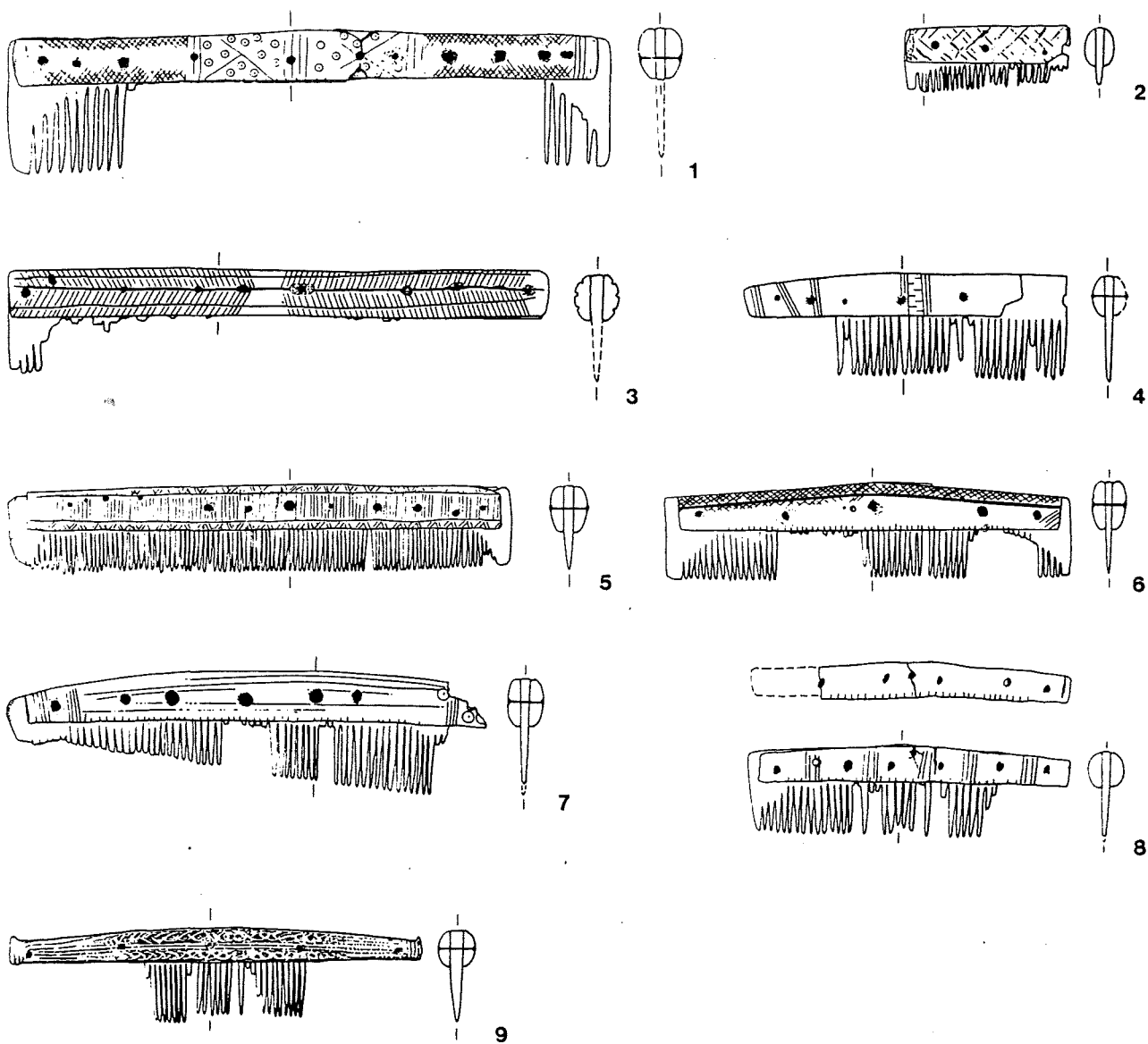


fig 171 Type 6.1.1.1.2.4.2.
 1, 3, 4 : Garnwerd; 2, 6, 8 : Dorkwerd; 5 : Bauwert; 7 : Valcum; 9 : Aalsum.

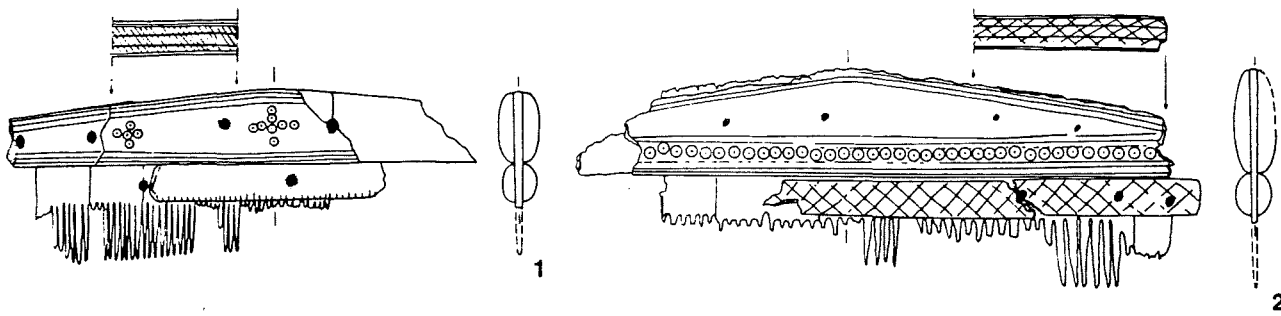


fig 172 Type 6.1.1.1.2.5.
 1 : Oostum; 2 : Feerwerd-N.

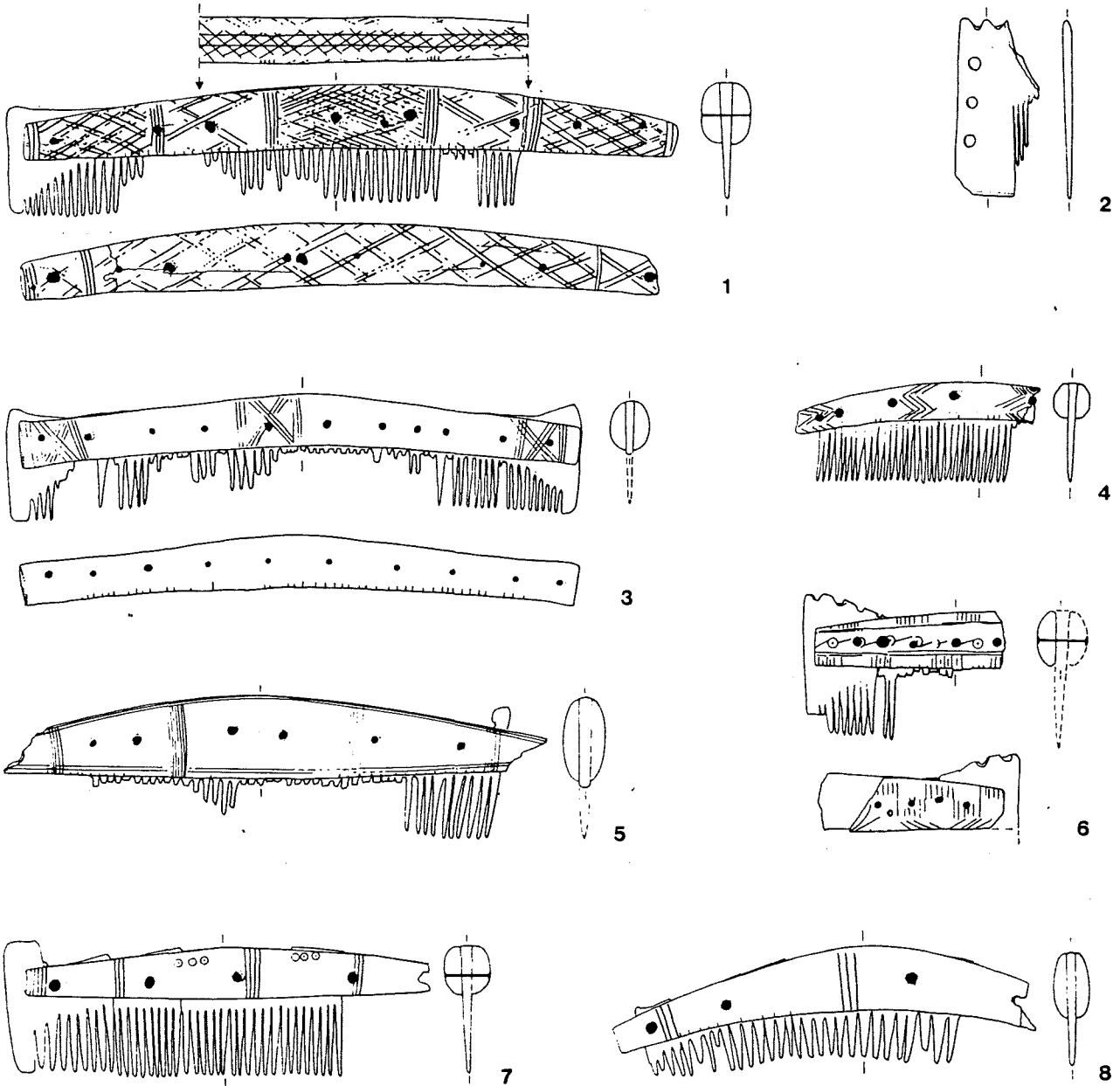


fig 173 Type 6.1.1.1.2.6.
 1, 3 : Dorkwerd; 2 : Aalsum; 4, 7 : Oostum; 5 : 7Bz17; 6 : Valcum; 8 : Ezinge.



fig 174 Type 6.1.1.1.2.7.
 1 : Joeswerd; 2 : Selwerd-klooster.

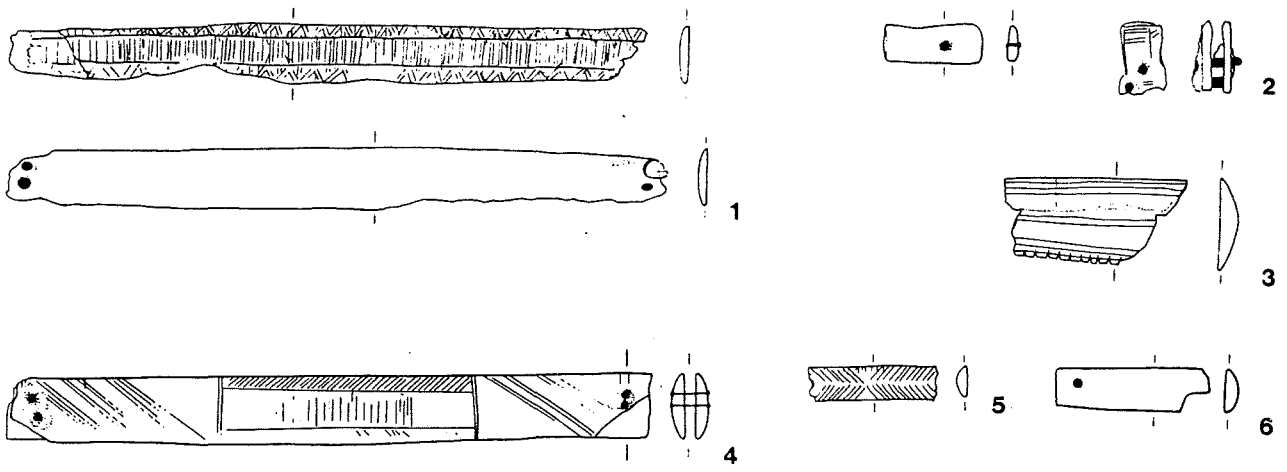


fig 175 Type 6.1.1.1.2.8.
 1, 2 : Bauwert; 3 : Ezinge; 4 : Garnwerd; 5 Dorkwerd; 6 : Joeswerd.

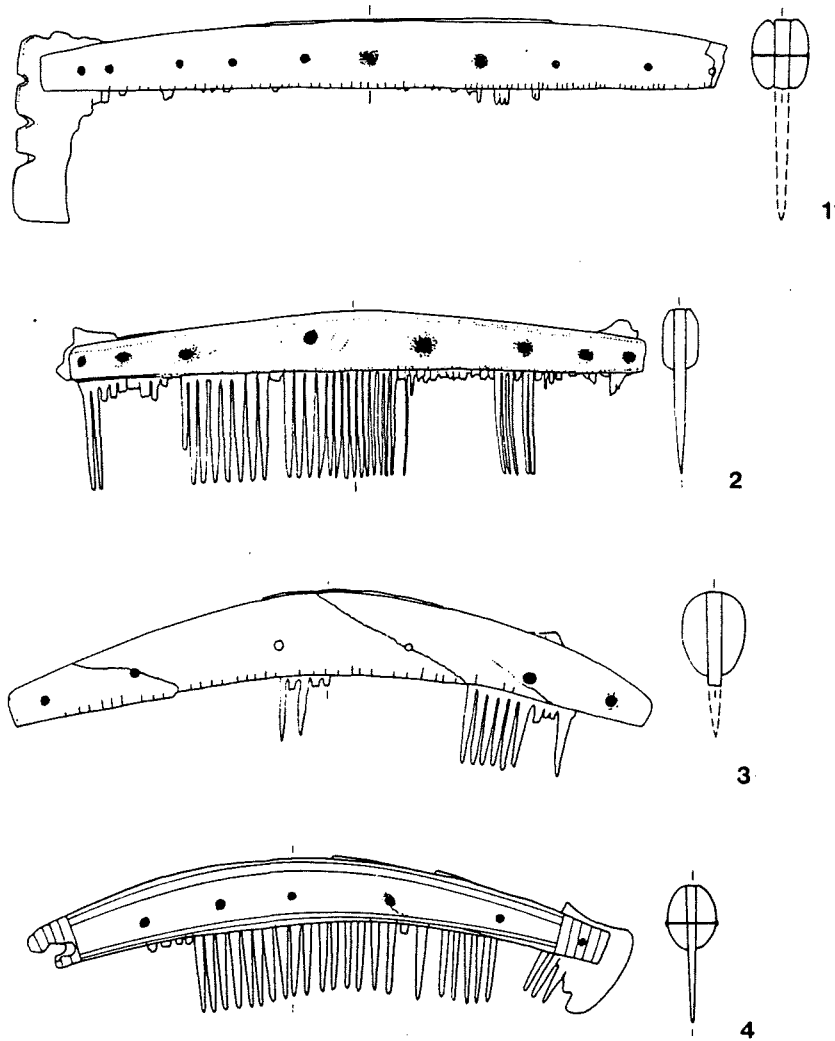


fig 176 Type 6.1.1.1.2.6.
 1, 2 : Aalsum; 3 : Oostum; 4 : Joeswerd.

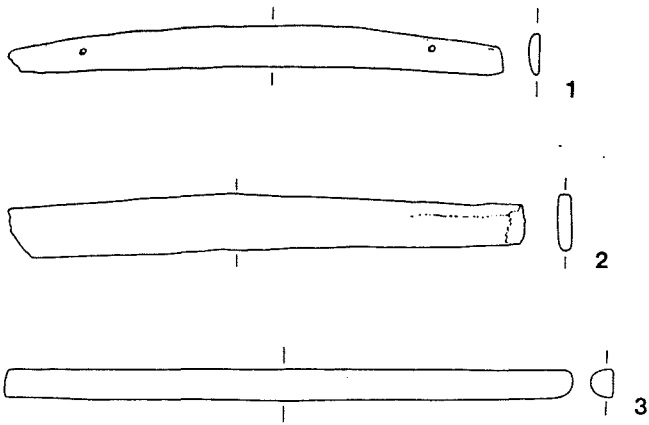


fig 177 Type 6.1.1.1.2.9.
1 : Dorkwerd; 2, 3 : Joeswerd.

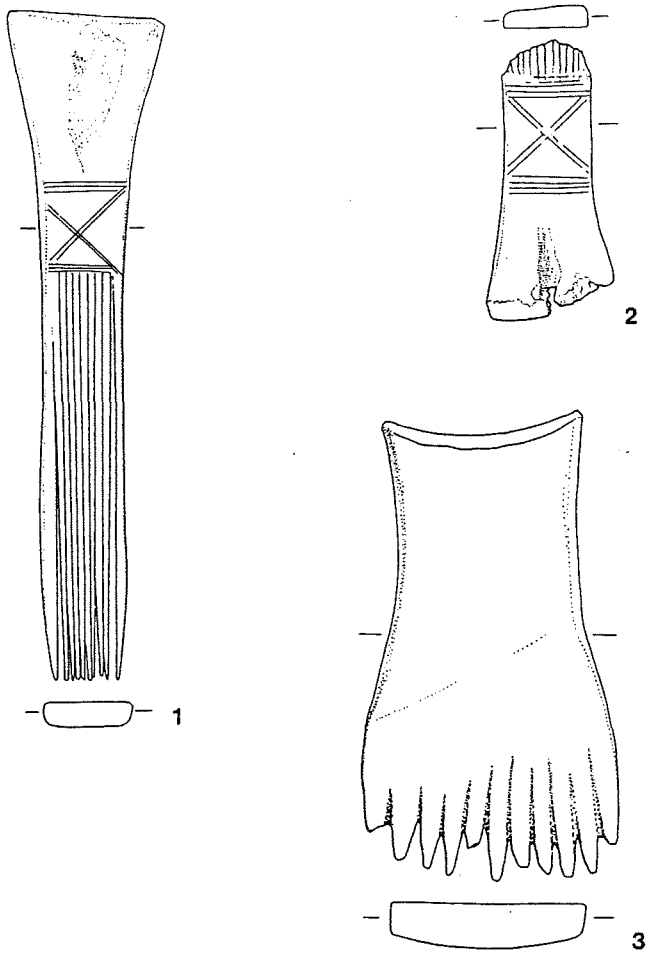


fig 178 Type 6.1.1.2.
1 : Krassum; 2 : Ezinge; 3 : Valcum.

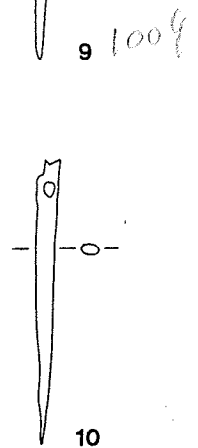
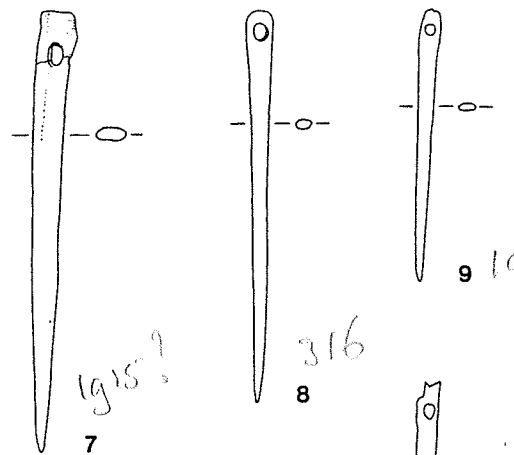
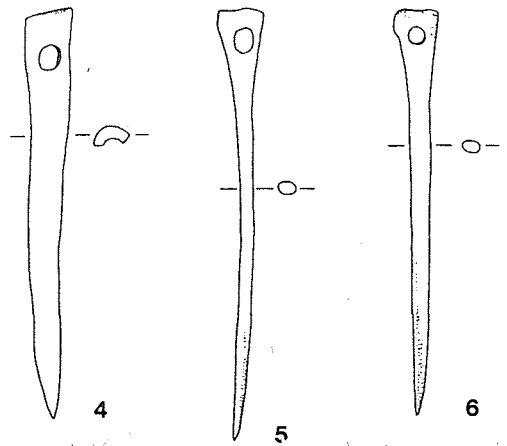
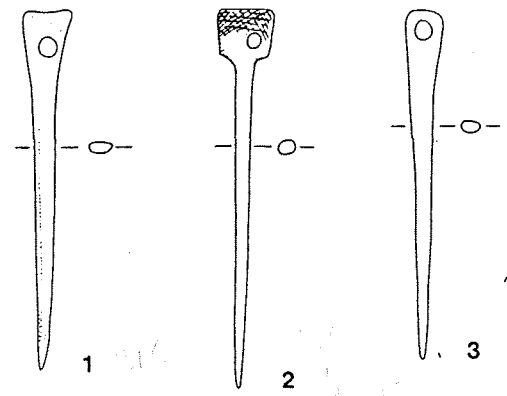


fig 179 Type 6.1.2.
1, 2, 3, 4, 5, 6, 7, 8, 9, 10 : Ezinge.

1 : 2

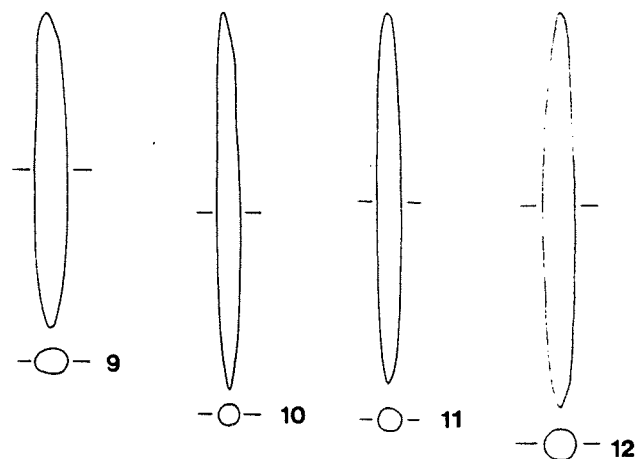
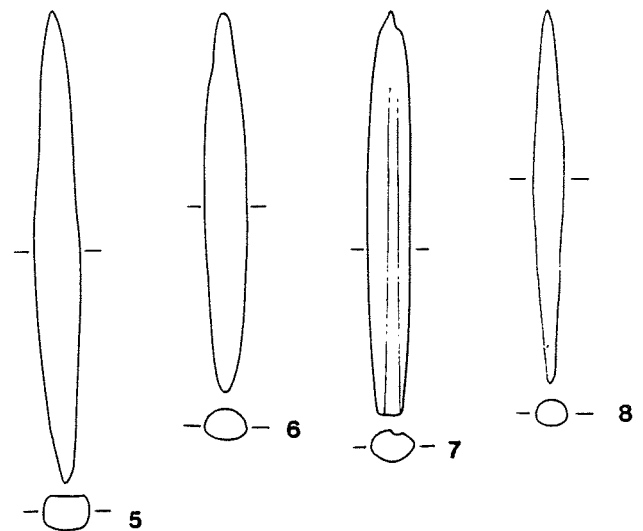
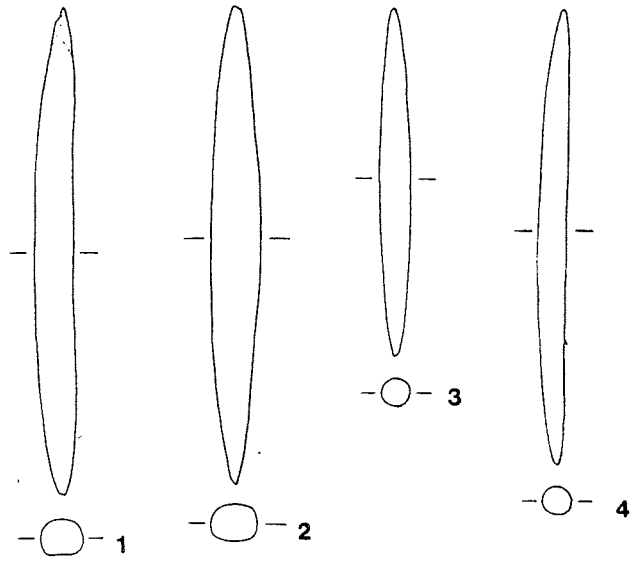
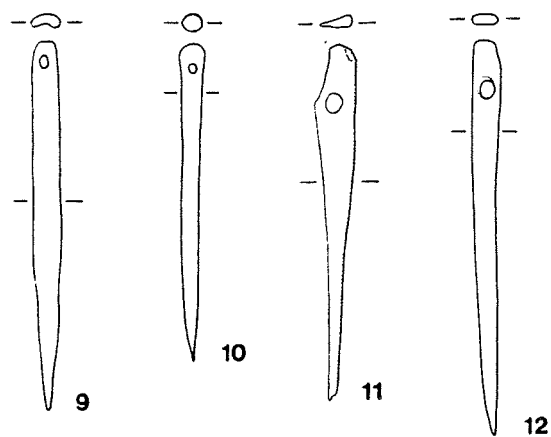
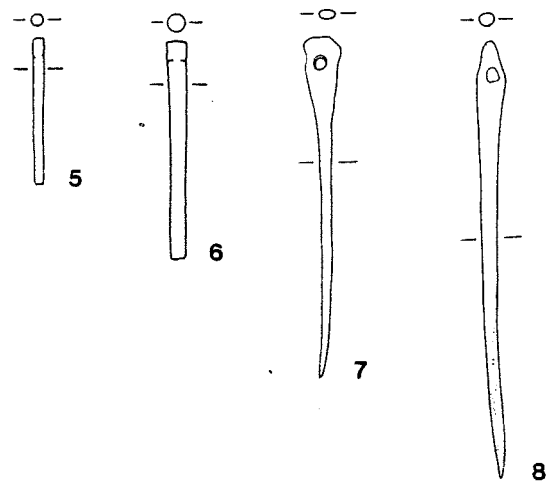
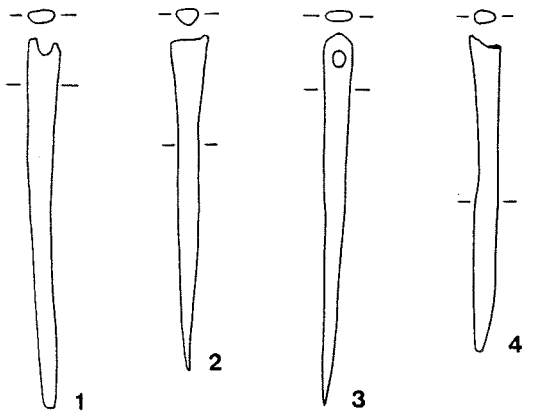


fig 180 Type 6.1.2.
 1, 2, 3, 4, 5, 6, 7 : Joeswerd; 8 : Antum;
 9, 12 : Aalsum; 10 : Garnwerd; 11 : Valcum.

fig 181 Type 6.1.3.
 1, 2, 3, 4, 5, 6, 7 : Joeswerd; 8 : Dorkwerd; 9, 10 : Wierum;
 11, 12 : Ezinge.

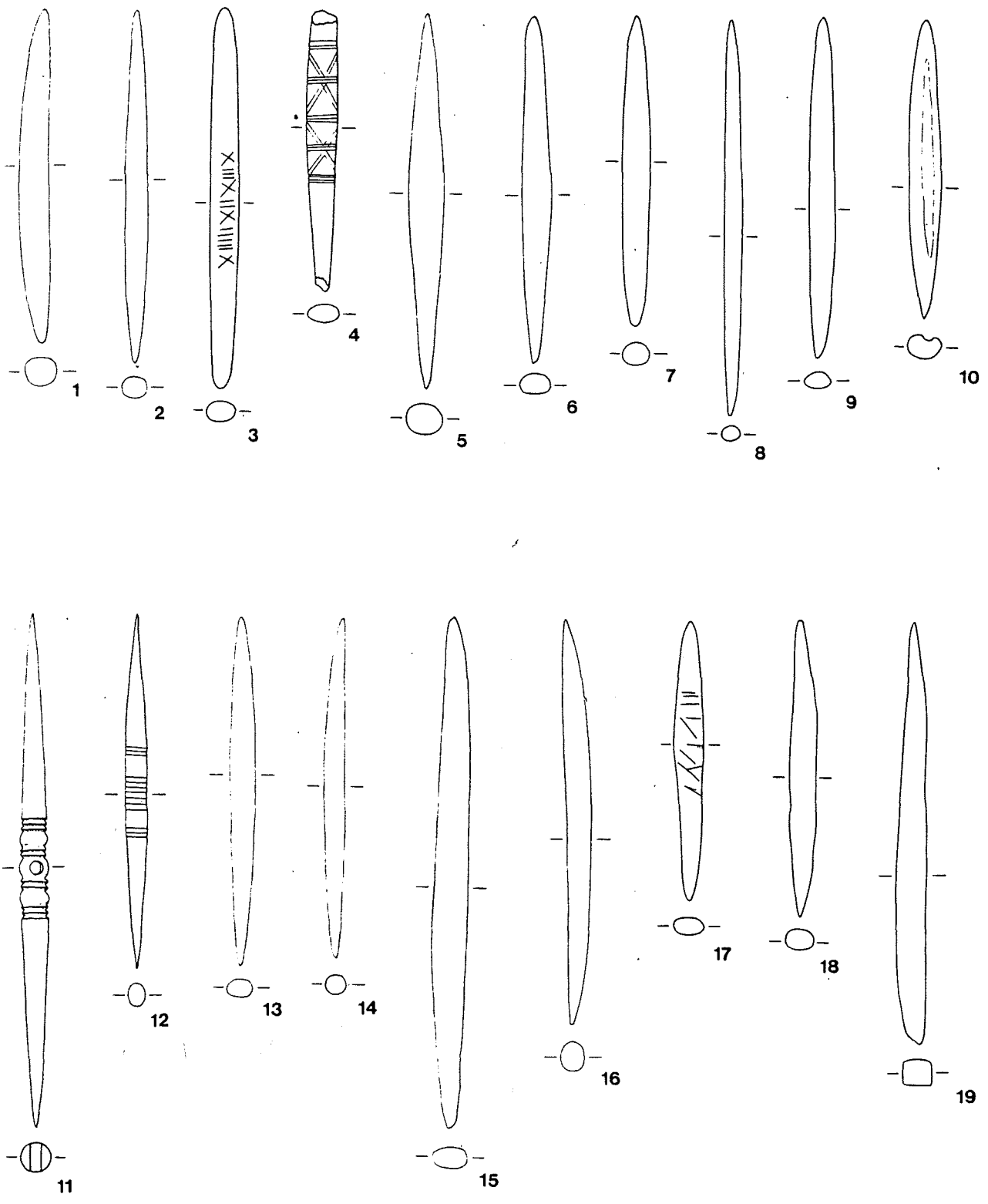


fig 182 Type 6.1.3.
 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11 : Aalsum; 12, 13, 14, 15 : Ezinge; 16 : Oostum; 17, 18, 19 : Garnwerd.

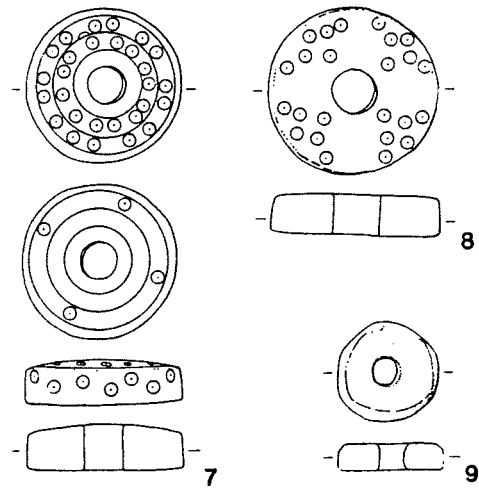
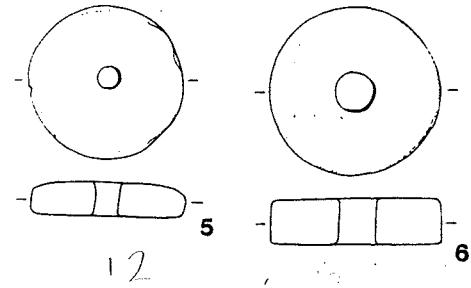
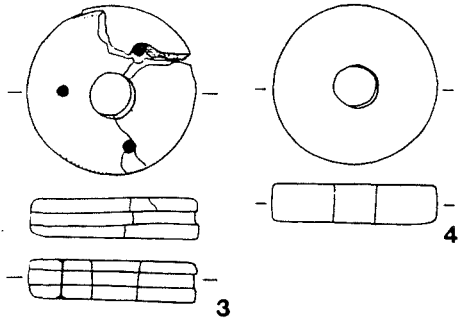
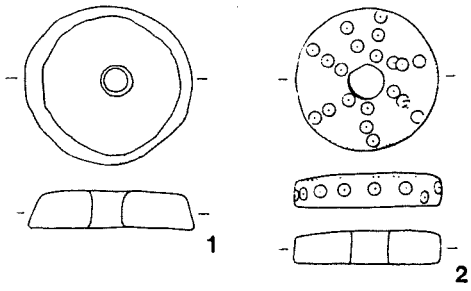


fig 183 Type 6.1.4.1.
 1, 2 : Joeswerd; 3 : Feerwerd-Z.;
 4, 7 : Oostum; 5, 6 : Ezinge;
 8 : Aalsum; 9 : Dorkwerk.

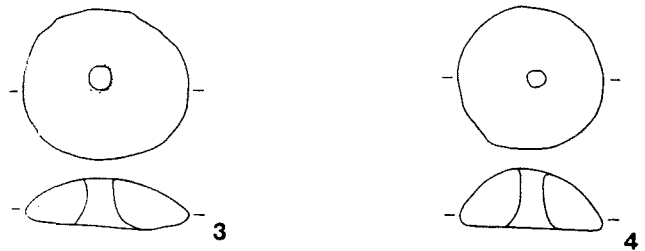
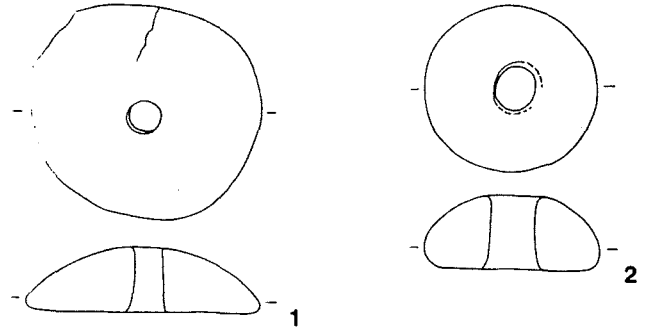


fig 184 Type 6.1.4.2.1.
 1 : Antum; 2 : Feerwerd-Z.; 3 : Joeswerd; 4 : Feerwerd-N.

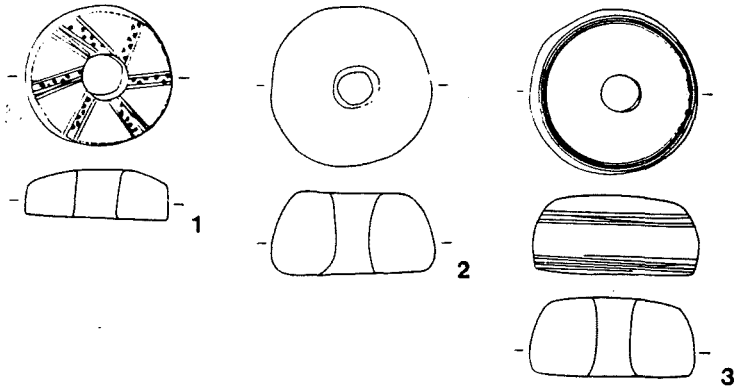


fig 185 Type 6.1.4.2.2.
 1 : Joeswerd; 2 : Feerwerd-Z.; 3 : Franssum.

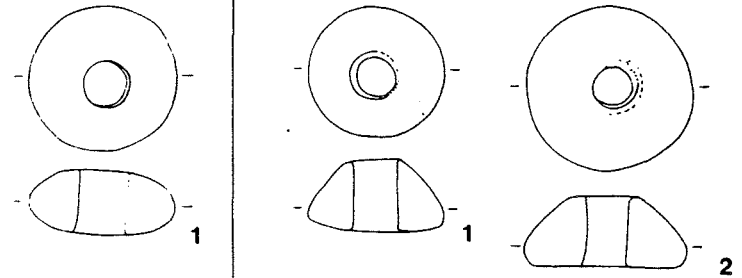


fig 186
 Type 6.1.4.4.
 1 : Aalsum.

fig 187 Type 6.1.4.3.
 1 : Joeswerd; 2 : Oostum. 1 : 2

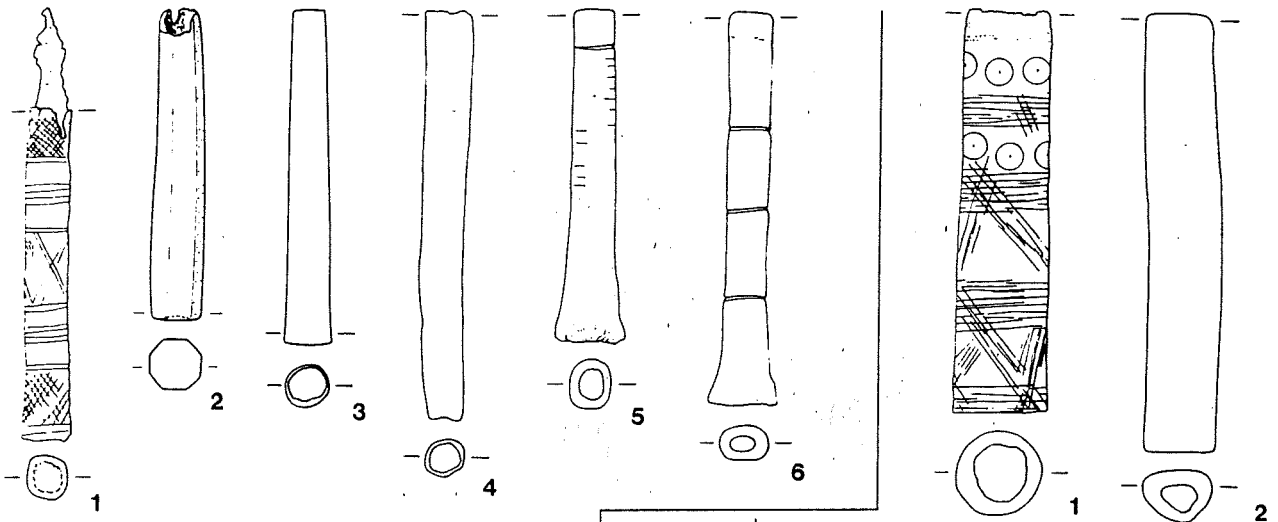


fig 188 Type 6.1.5.1.
 1, 4 : Bauwert; 2 : Aalsum; 3 : Feerwerd-Z
 5, 6 : Ezinge.

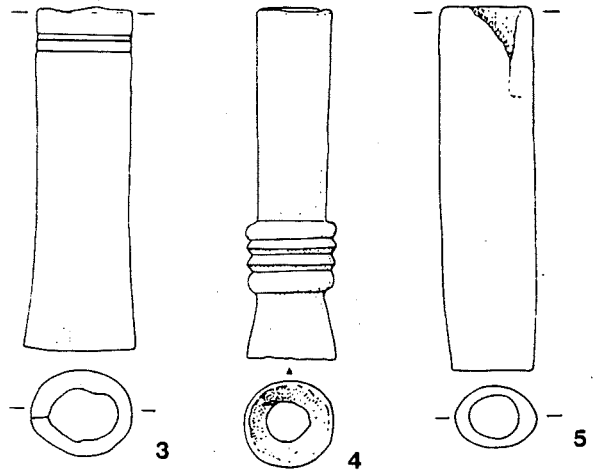
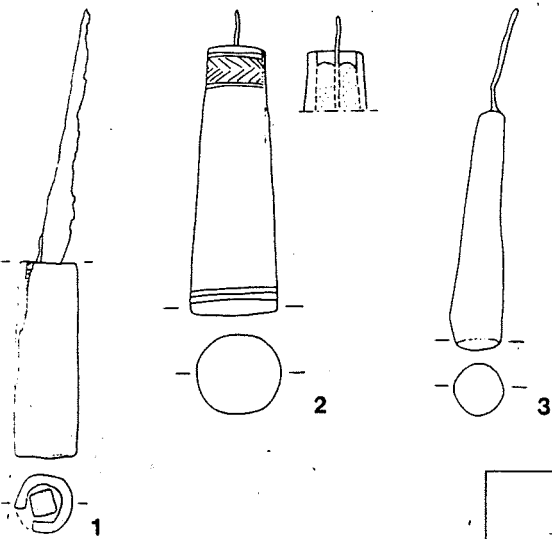


fig 189 Type 6.1.5.2.
 1, 2, 3 : Ezinge; 4 : Valcum; 5 : Brillerij.

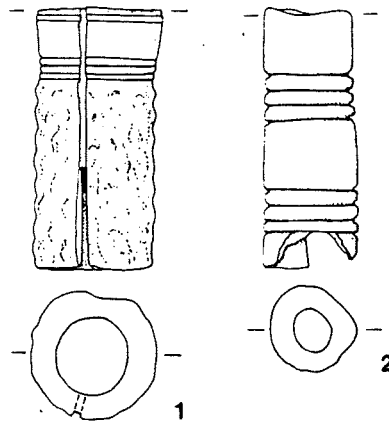
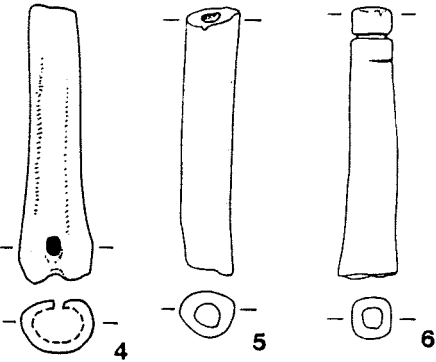


fig 191 Type 6.1.5.4.
 1 : Antum; 2 : Ezinge.

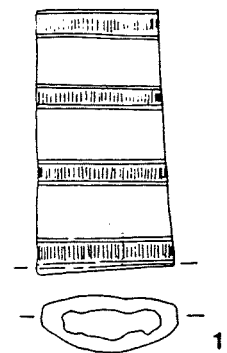


fig 192 Type 6.1.5.5.
 1 : Ezinge.

1 : 2

fig 190 Type 6.1.5.3.
 1, 5, 6 : Ezinge; 2 : Antum;
 3 : Oostum; 4 : Joeswerd.

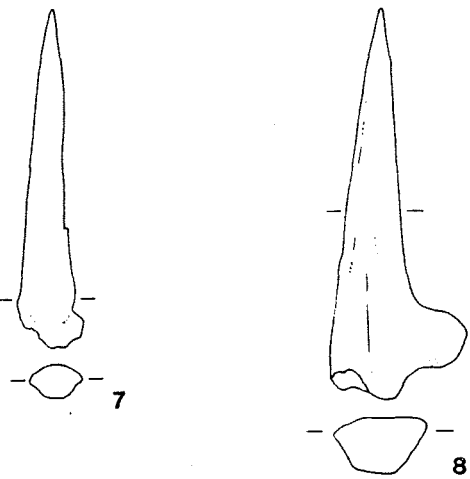
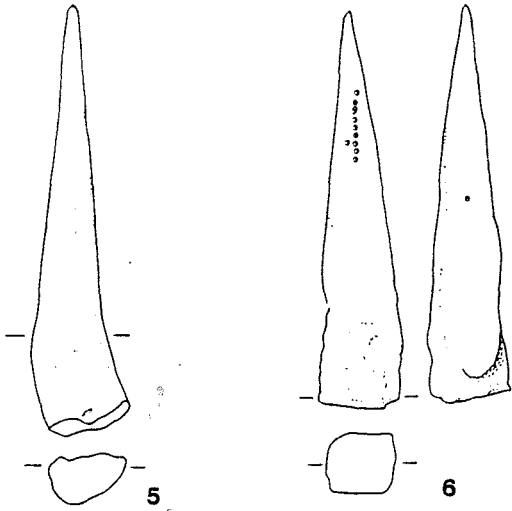
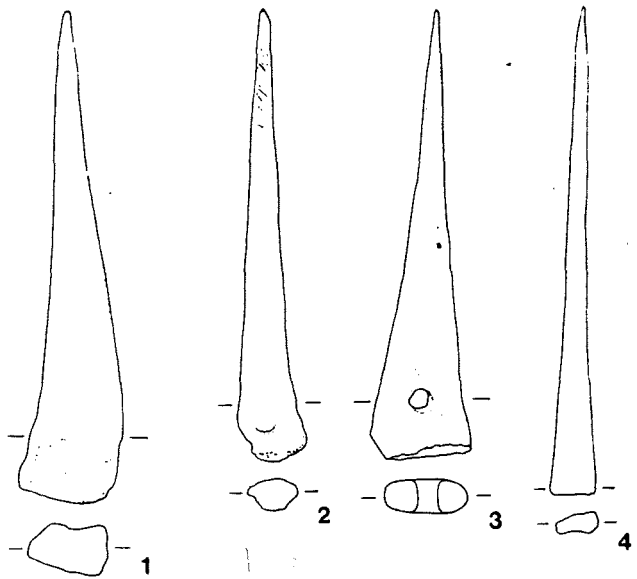


fig 193 Type 6.1.6.1.1.
1, 2, 5 : Ezinge; 3, 4, 6, 7 : Aalsum; 8 : Dorkwerd.

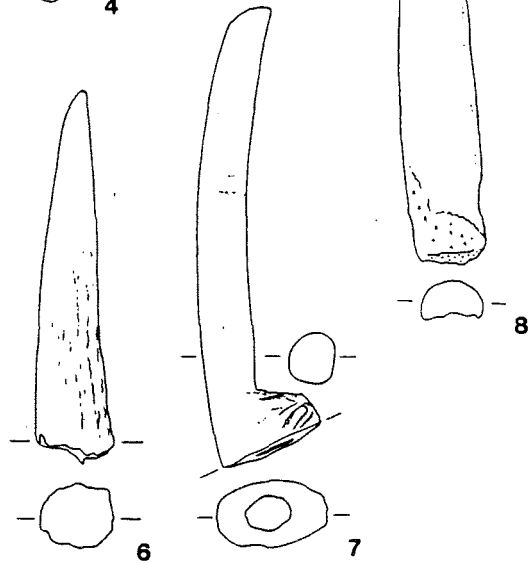
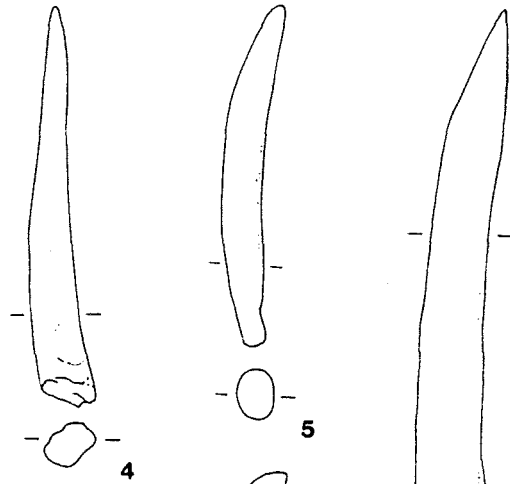
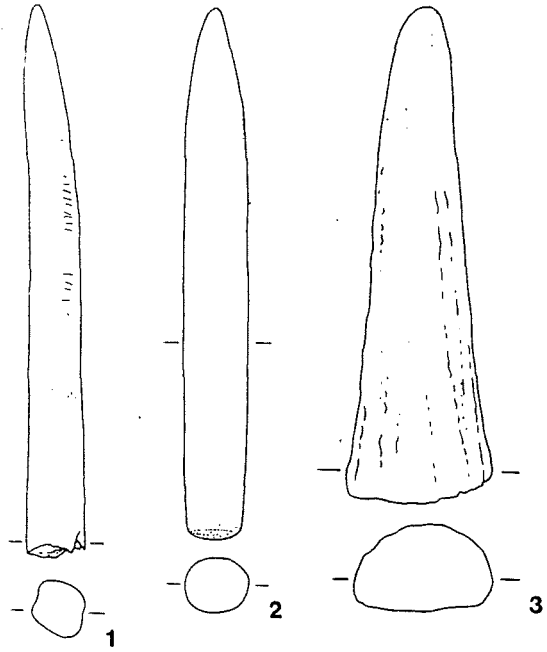


fig 194 Type 6.1.6.1.2.
1, 8 : Joeswerd; 2 : Valcum; 3, 4, 5 : Ezinge; 6 : Garnwerd;
7 : Oostum.

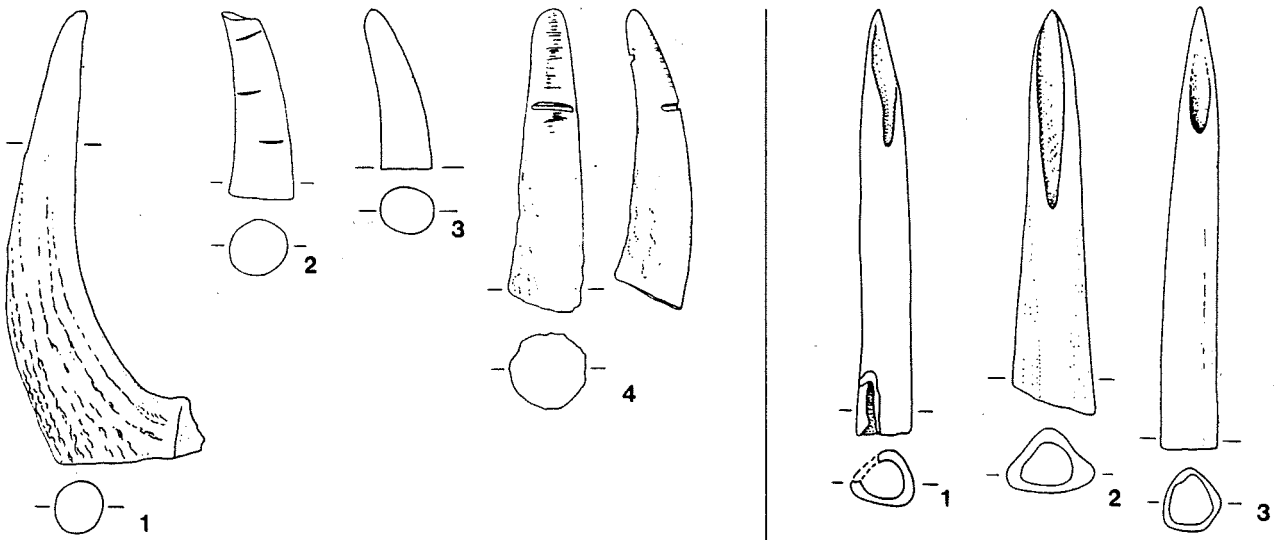


fig 195 Type 6.1.6.1.3.
1, 2, 3, 4 : Dorkwerd.

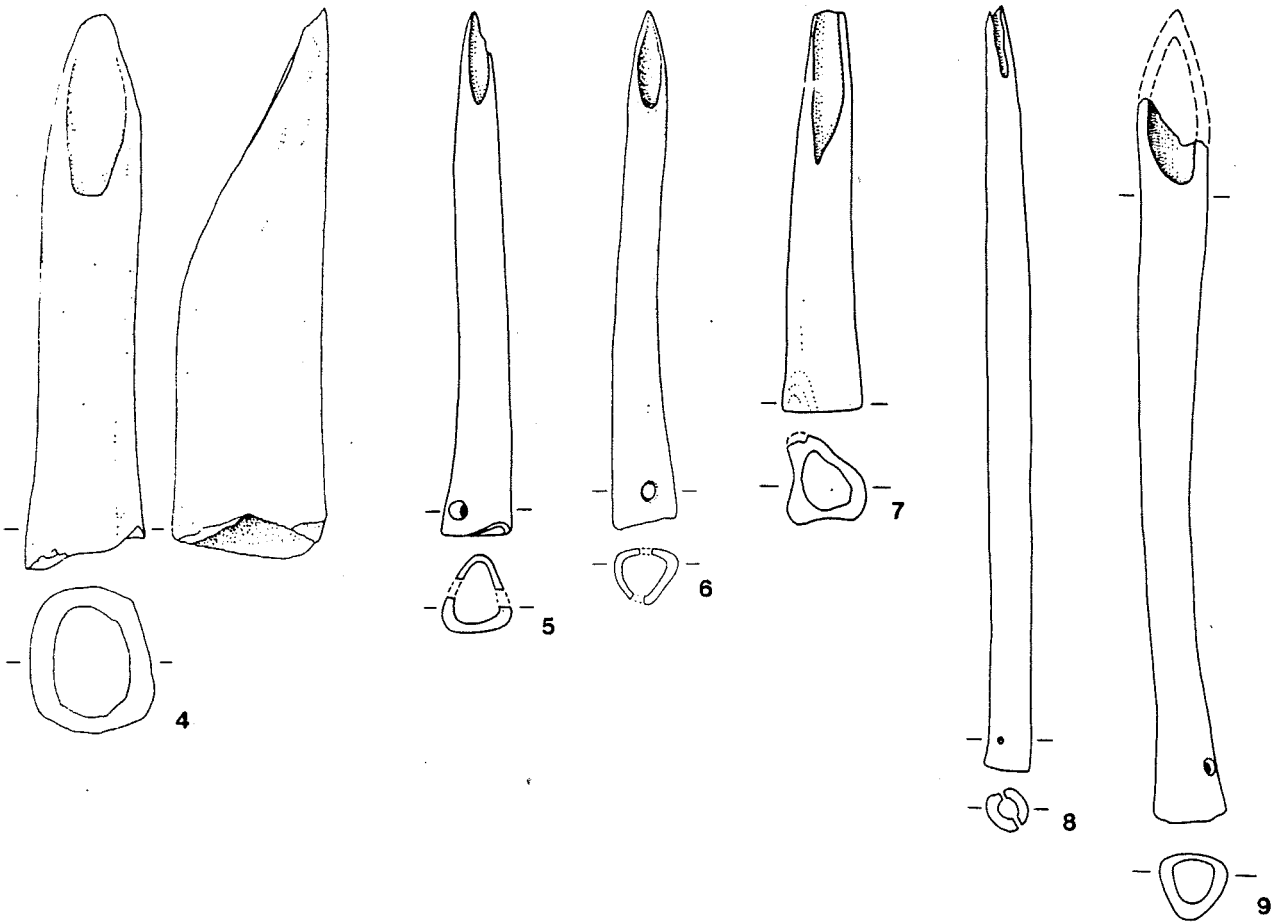


fig 196 Type 6.1.6.2.
1, 5, 7 : Joeswerd; 2 : Ezinge; 3 : Wierum; 4, 8 : Garnwerd; 6 : Aalsum;
9 : Feerwerd-Z.

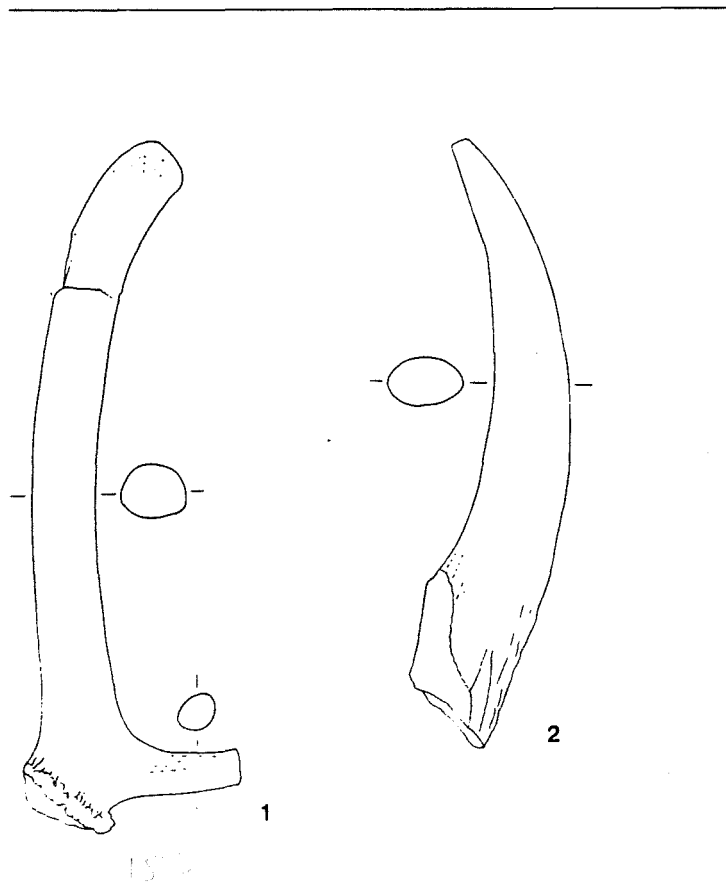
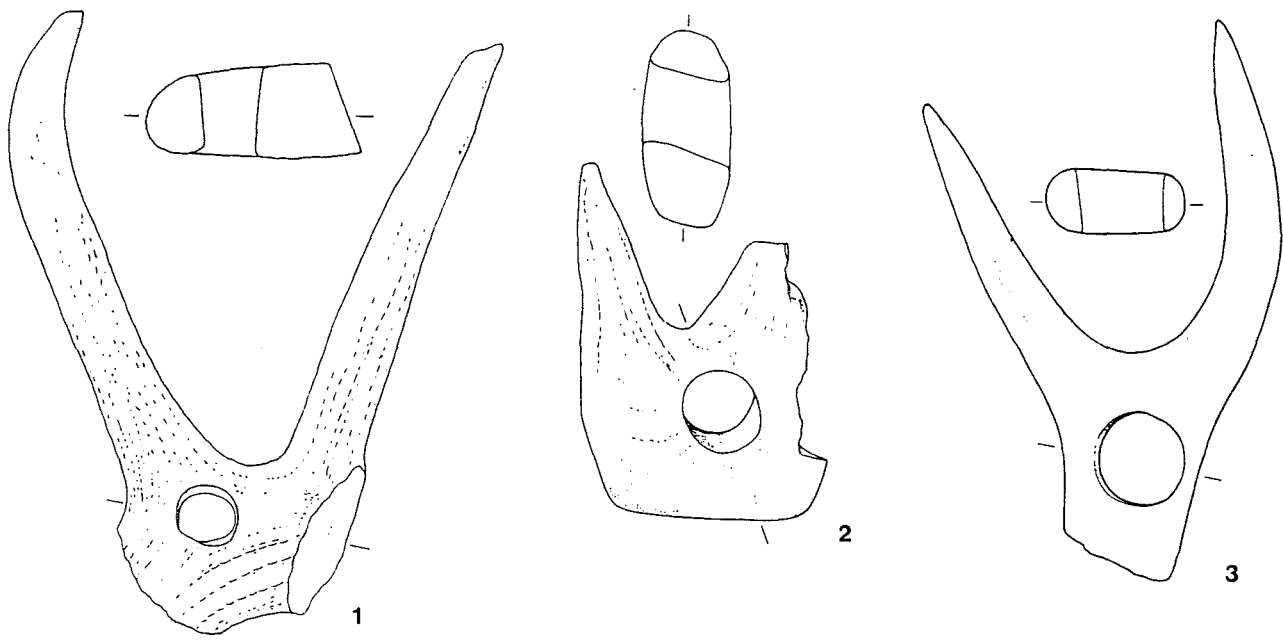


fig 197 Type 6.1.7.2.
1 : Ezinge; 2 : Oostum.



fig 198 Type 6.1.7.1.
1 : Antum; 2 : Aalsum; 3 : Dorkwerd; 4, 5 : Ezinge.

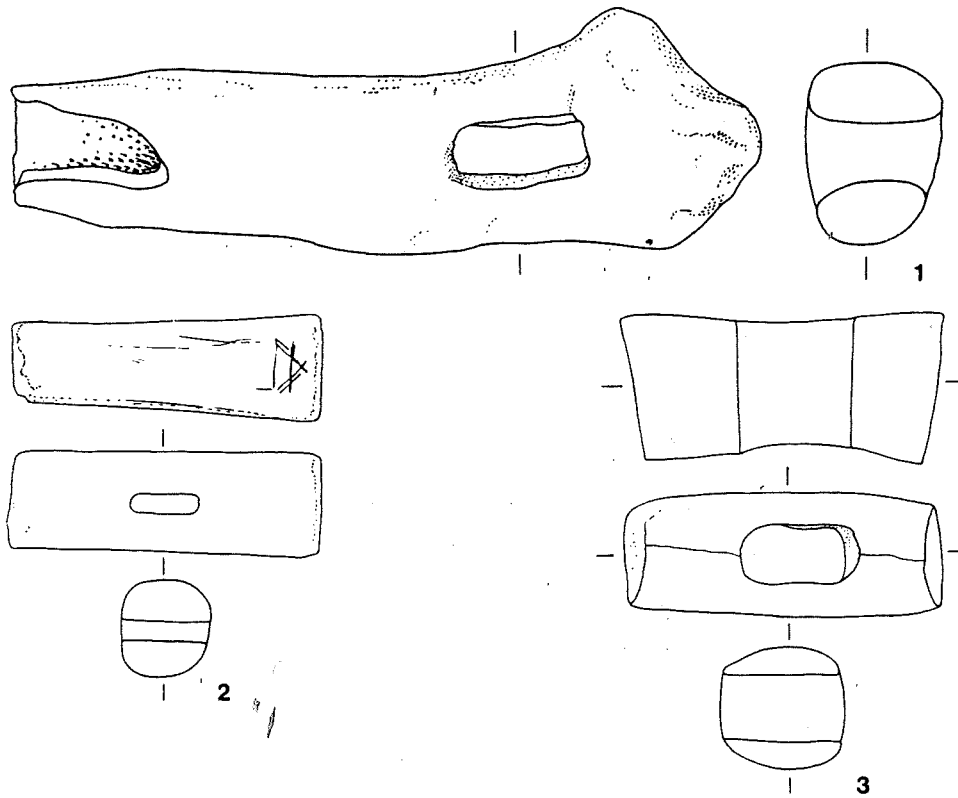


fig 199 Type 6.1.8.1.
1, 2 : Ezinge; 3 : Valcum.

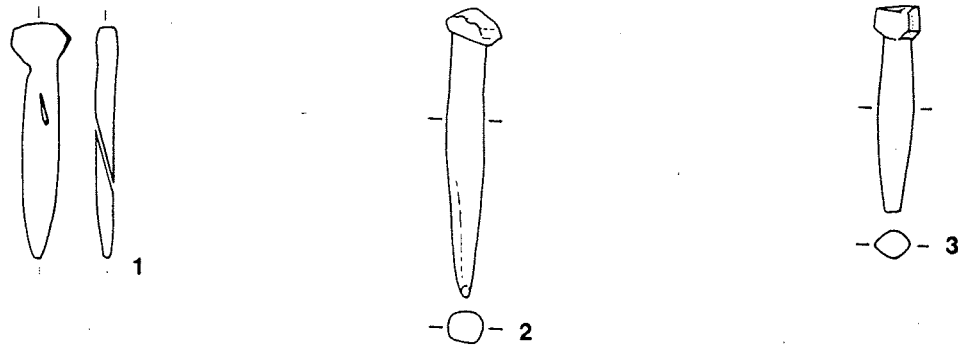


fig 200 Type 6.1.8.2.
1, 3 : Joeswerd; 2 : Aalsum.

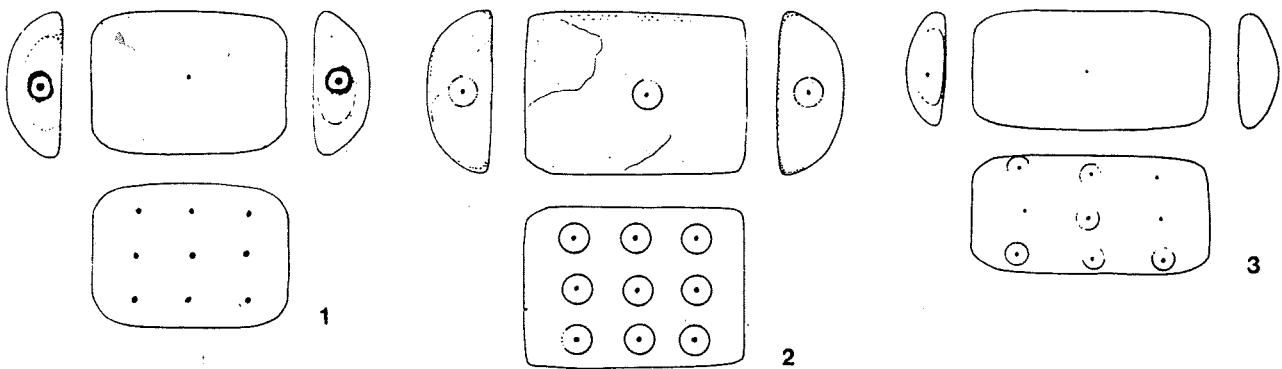


fig 201 Type 6.1.10.3.
1, 2 : Ezinge; 3 : Aalsum.

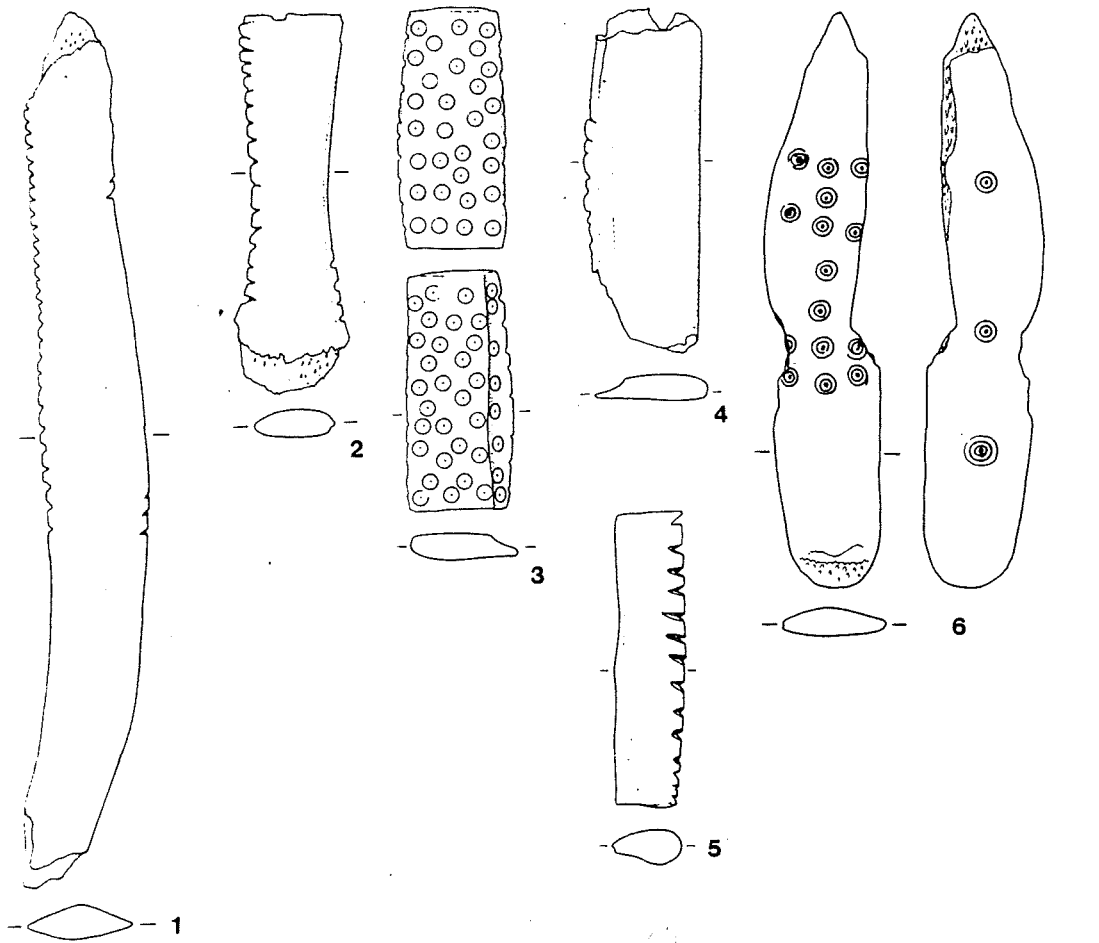


fig 202 Type 6.1.9.1.
 1 : Feerwerd-N.; 2, 4 : Ezinge; 3, 5 : Aalsum; 6 : Feerwerd-Z.

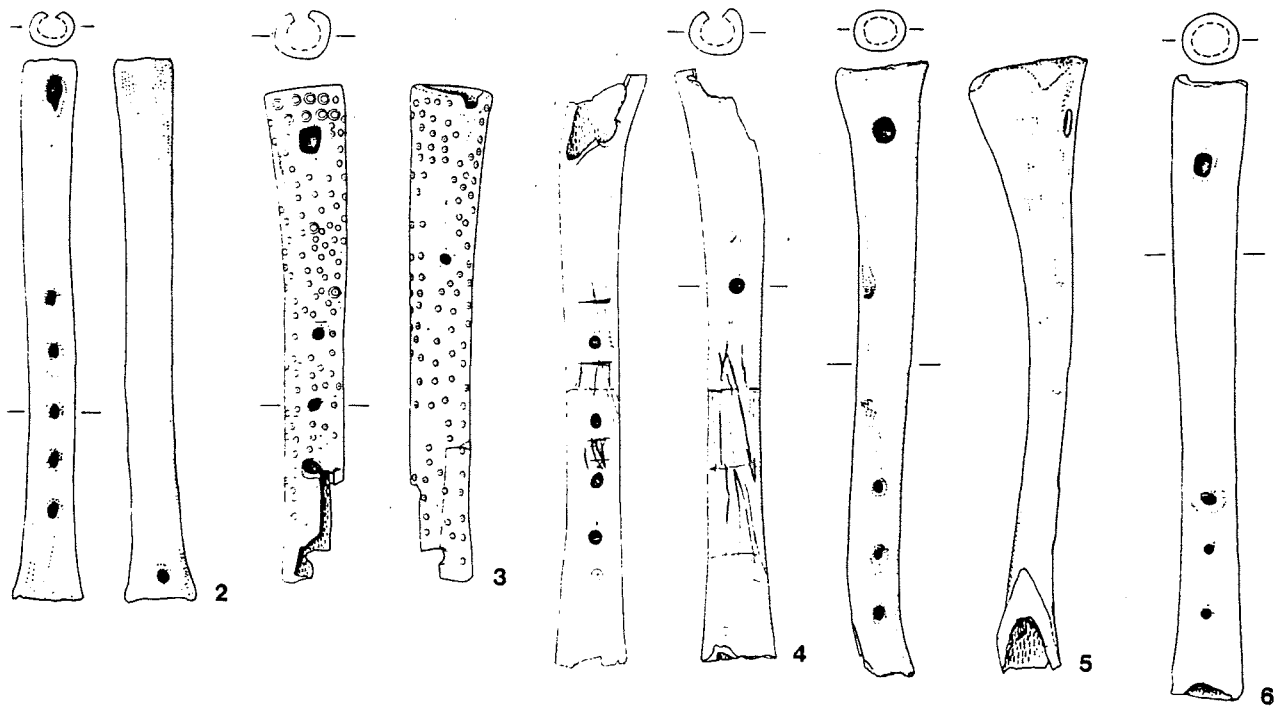
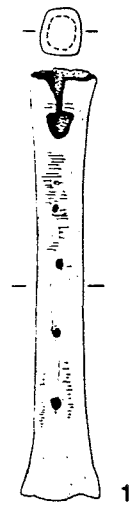


fig 203 Type 6.1.9.2.
 1 : Valcum; 2 : Feerwerd-N.; 3 : Aduard; 4, 5 : Aalsum; 6 : Schillingham.

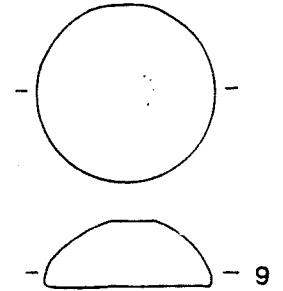
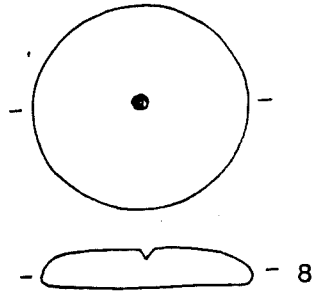
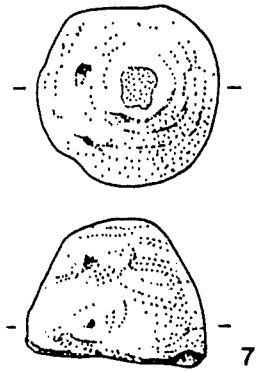
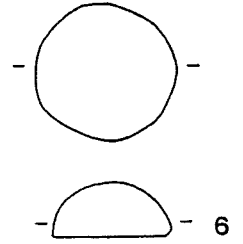
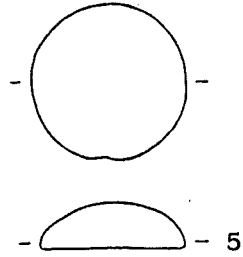
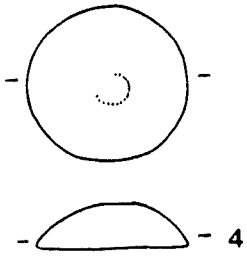
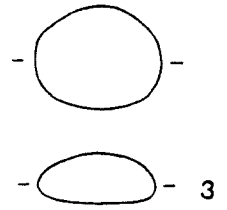
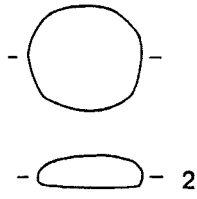
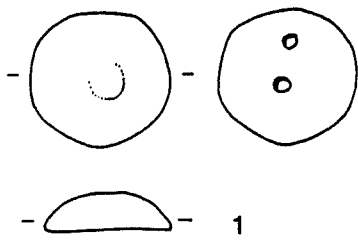


fig 204 Type 6.1.10.1.
1, 3, 6 : Prov. Groningen; 2, 4 : Raskwerd; 5, 9 : Ezinge; 7 : Feerwerd-Z.; 8 : Joeswerd.

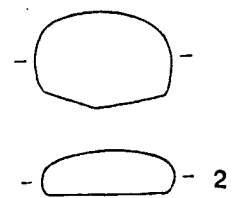
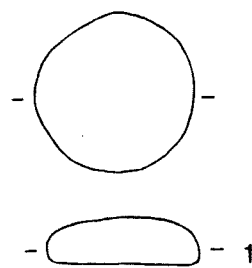
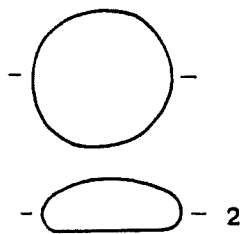
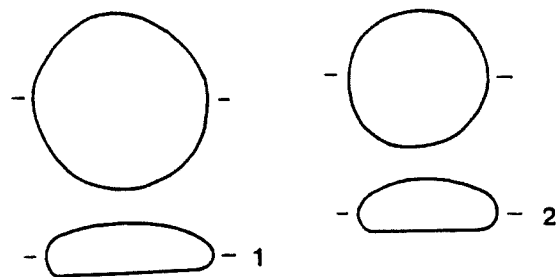


fig 205 Type 7.6.
1 : Joeswerd; 2 : Ezinge.

fig 206 Type 8.4.
1 : Aalsum; 2 : Ezinge.

1 : 1

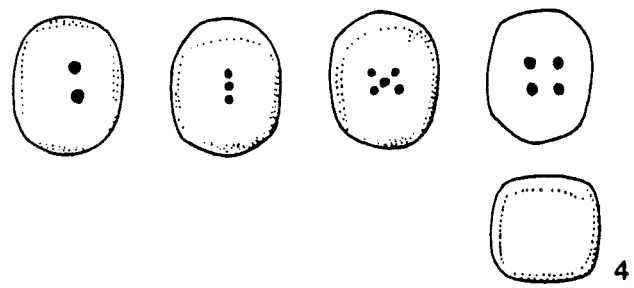
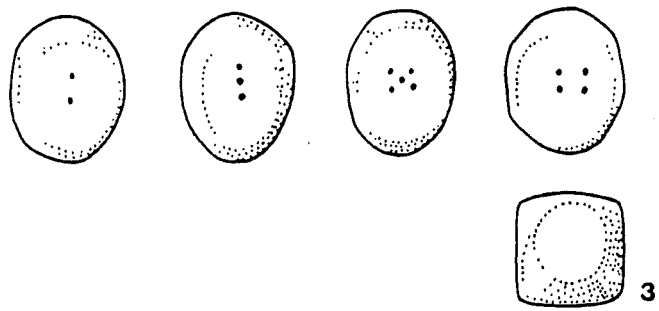
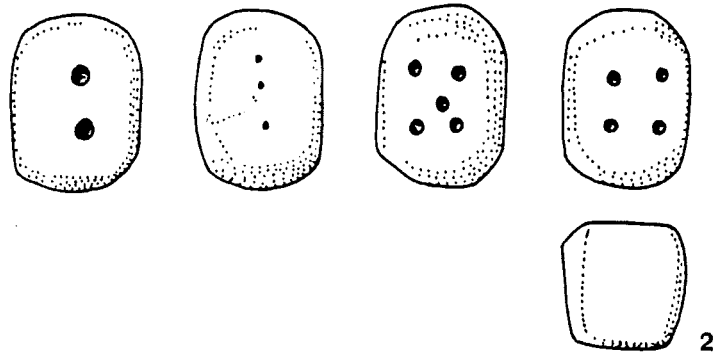
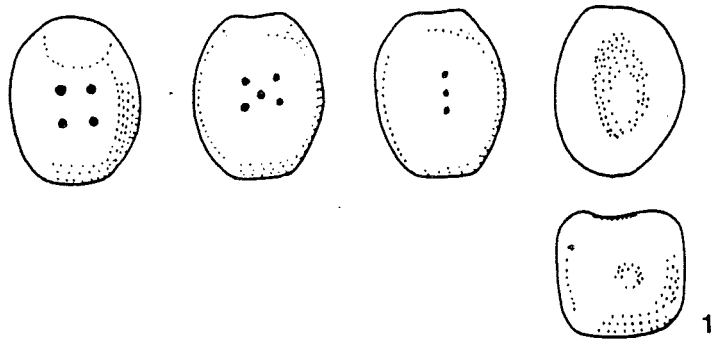


fig 207 Type 6.1.10.2.
1, 2 : Joeswerd; 3 : Toornwerd; 4 : Raskwerd.

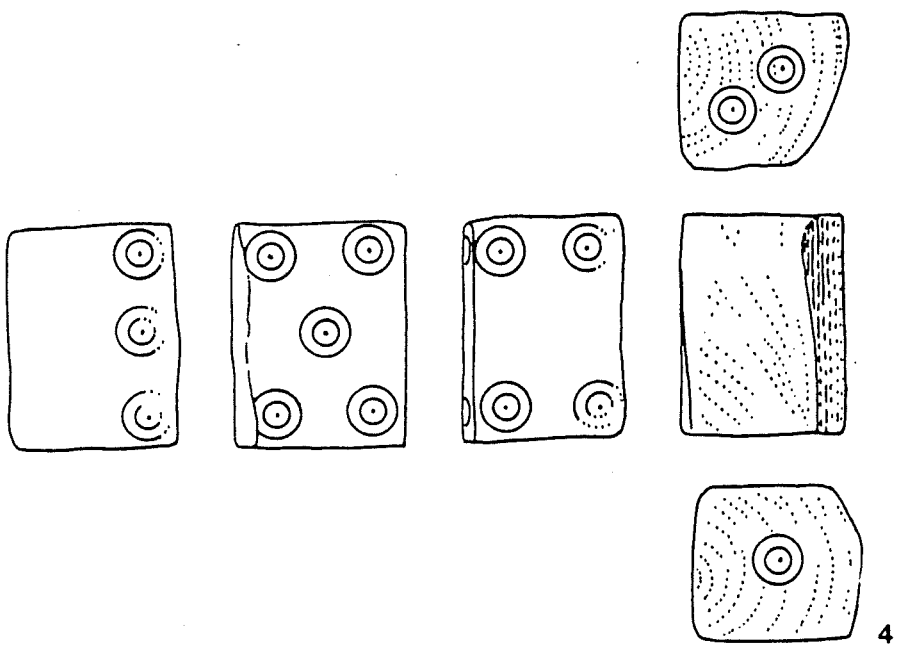
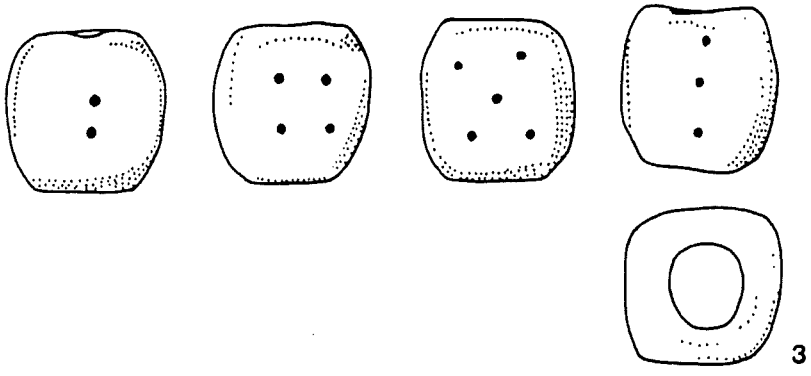
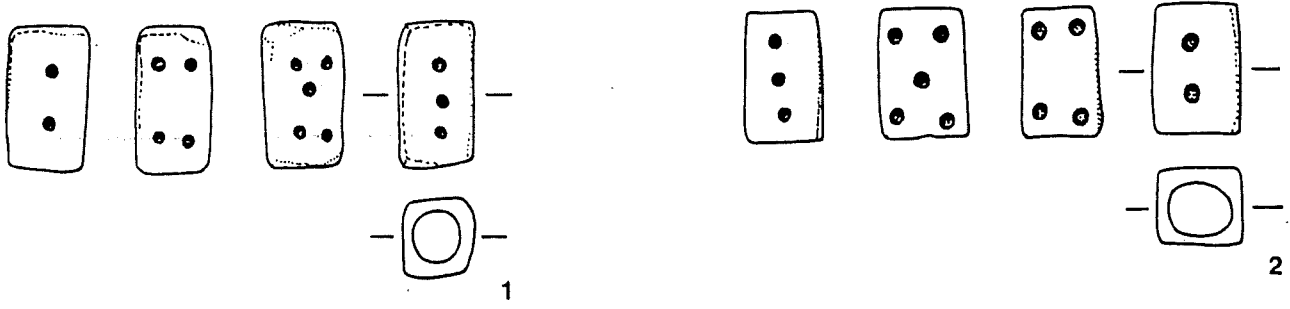


fig 208 Type 6.1.10.2.
 1 : Ezinge; 2, 3 : Joeswerd; 4 : Bauwert.

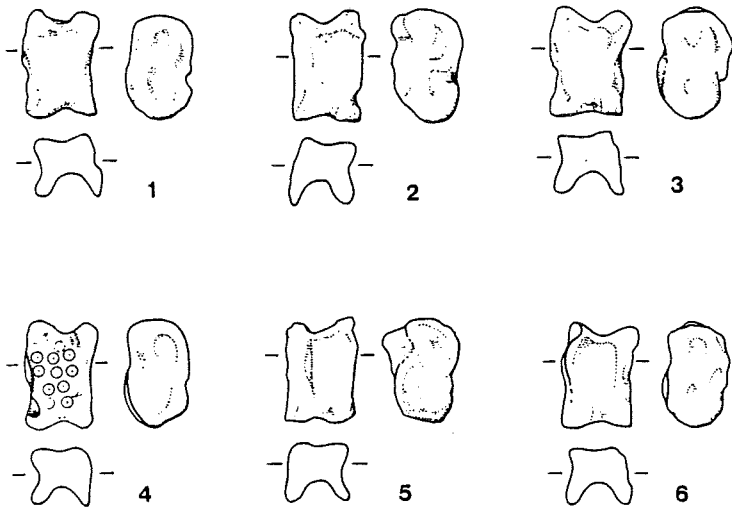


fig 209 Type 6.1.10.4.
1, 2, 3, 4, 5, 6 : Antum.

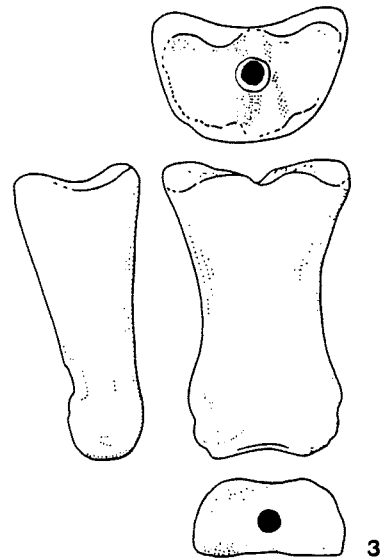
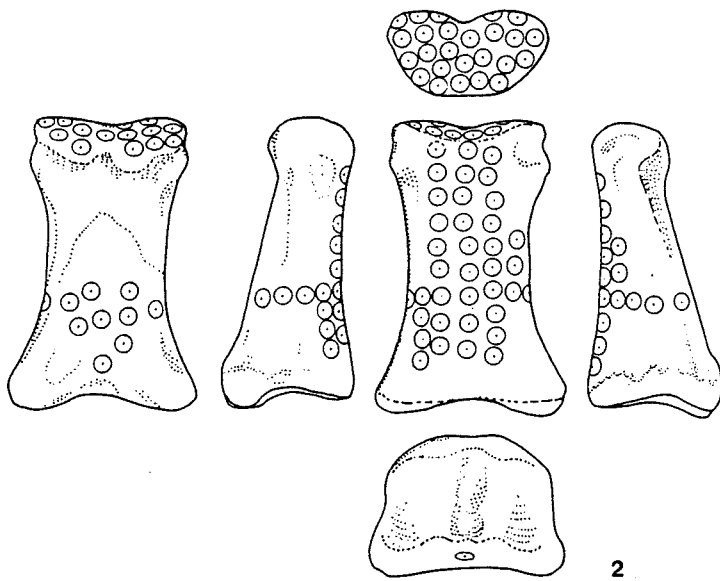
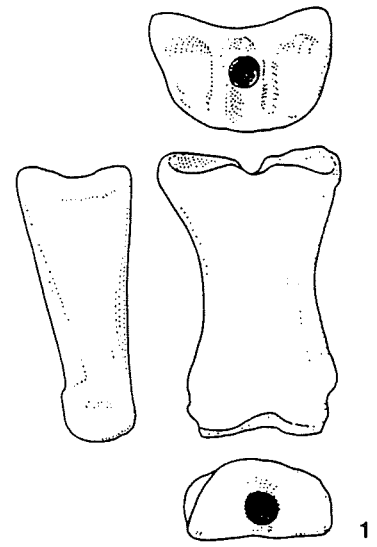


fig 210 Type 6.1.10.5.
1, 3 : Ezinge; 2 : Brillerij.

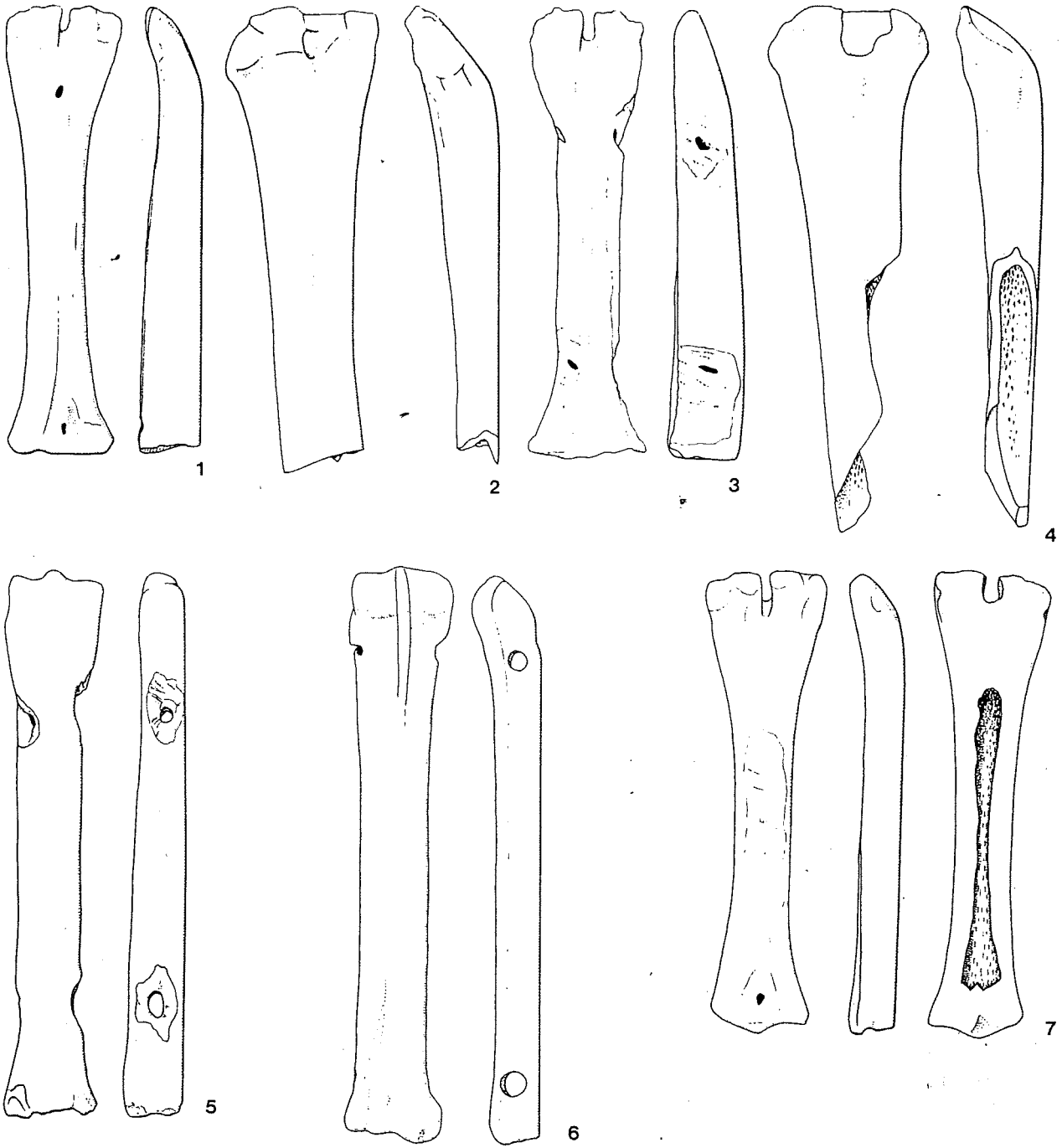


fig 211 Type 6.1.11.1.
 1, 2, 6 : Aalsum; 3 : Dorkwerd; 4 : Garnwerd; 5, 7 : Ezinge.

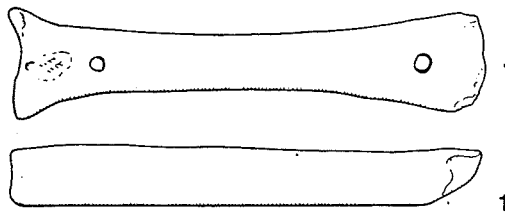


fig 212 Type 6.1.11.2.
 1 : Valcum.

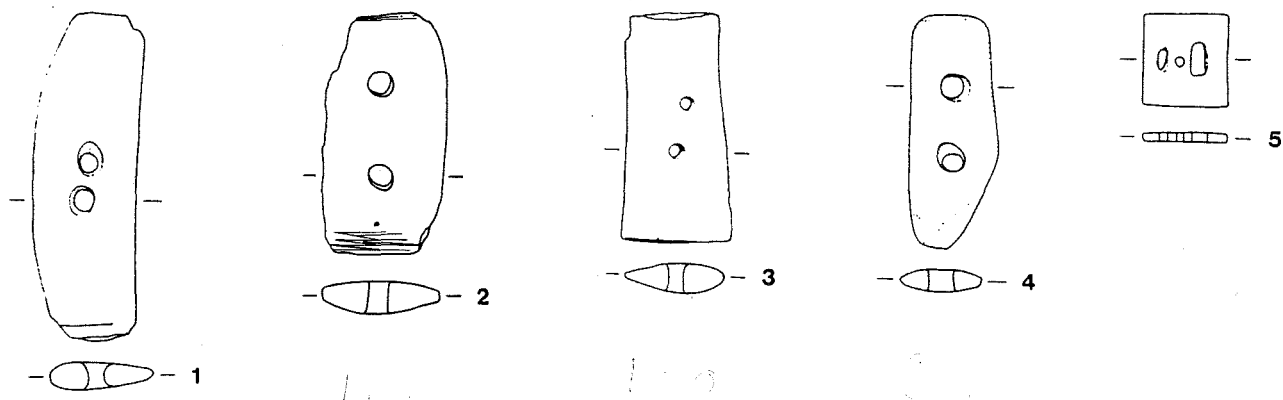


fig 213 Type 6.1.12.
1, 3, 4, 5 : Ezinge; 2 : Brillerij.

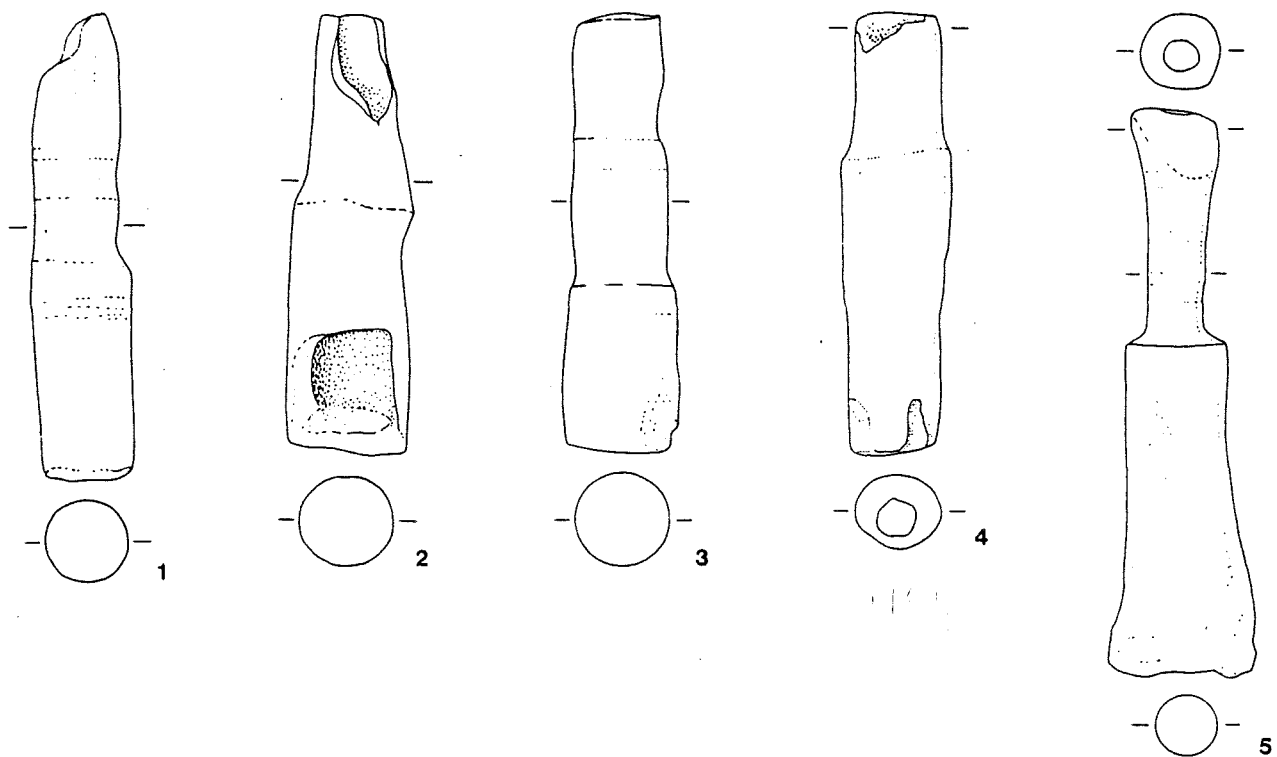


fig 214 Type 6.1.13.
1, 2 : Brillerij; 3, 5 : Garnwerd; 4 : Ezinge.

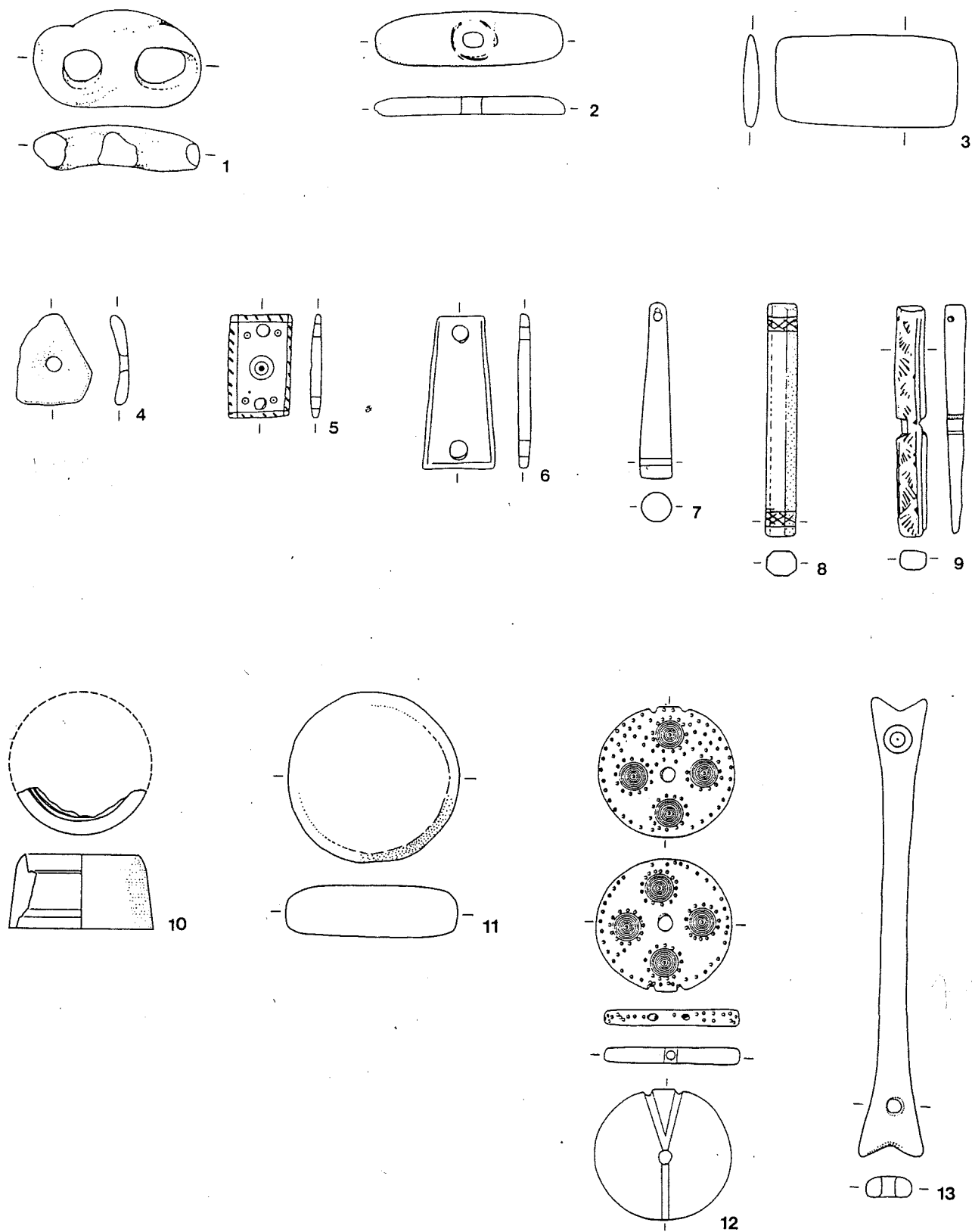


fig 215 Type 6.1.14.
 1, 3 : Oostum; 2, 6, 7, 8 : Aalsum; 4, 13 : Ezinge;
 5 : Westeremden; 9, 10, 11, 12 : Antum.

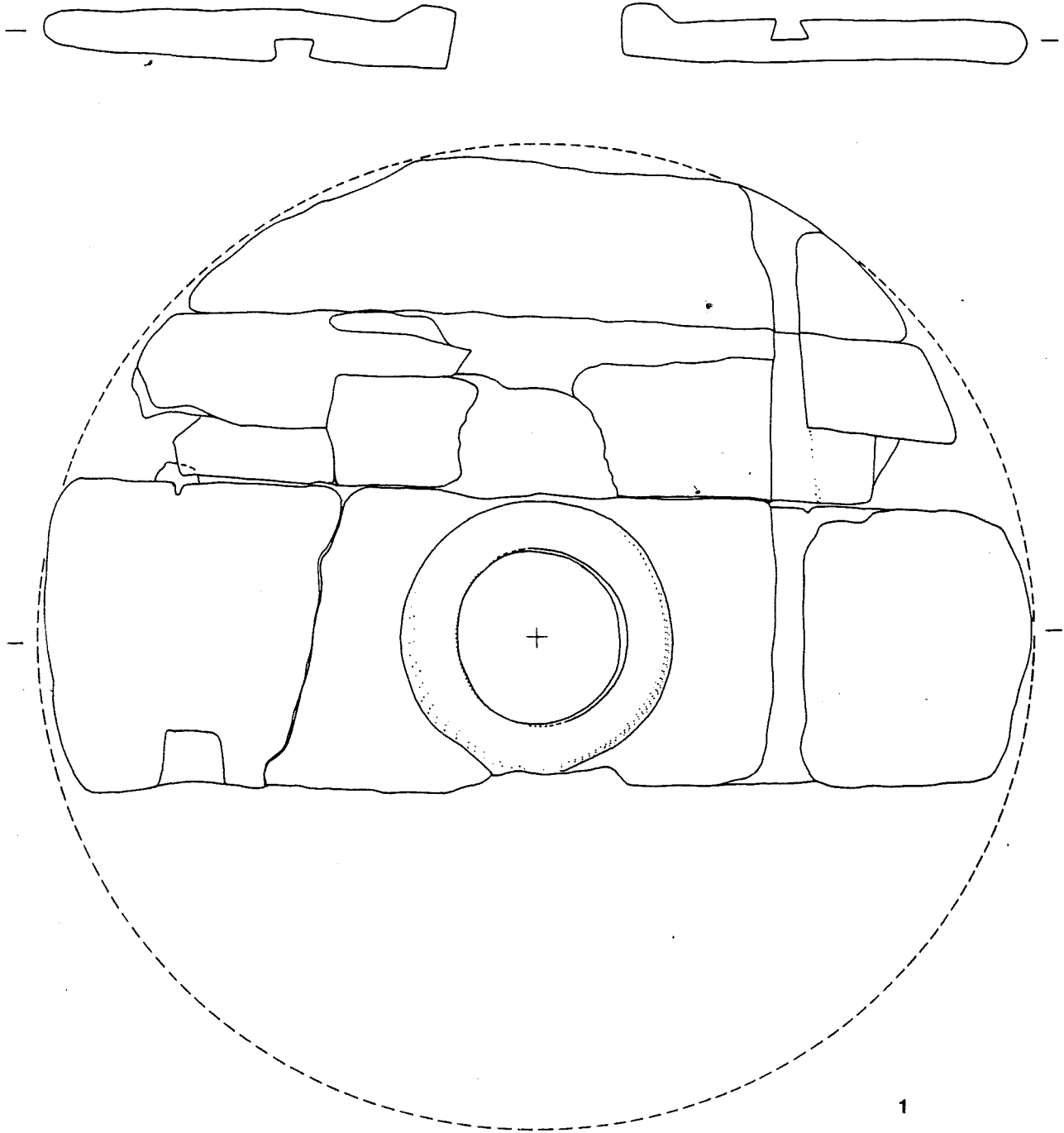


fig 216 Type 6.3.1.1.
1 : Ezinge.

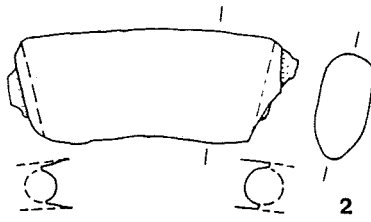
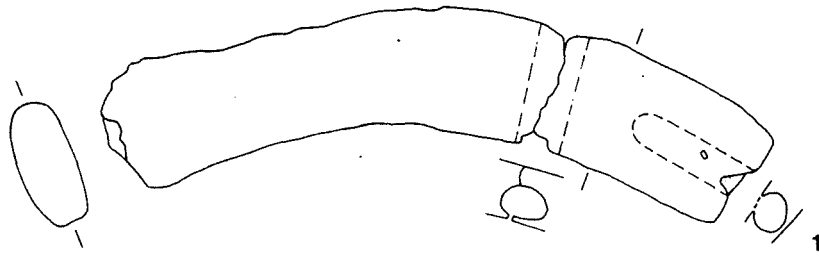


fig 217 Type 6.3.1.2.
1, 2 : Ezinge.

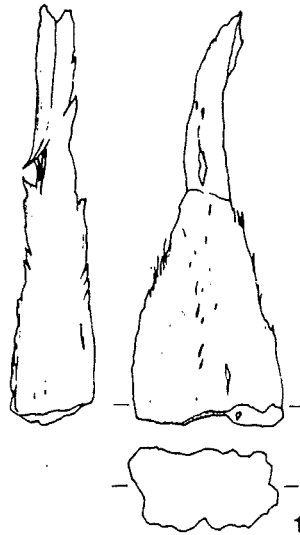


fig 217a Type 6.3.1.2.
1 : Dorkwerd.

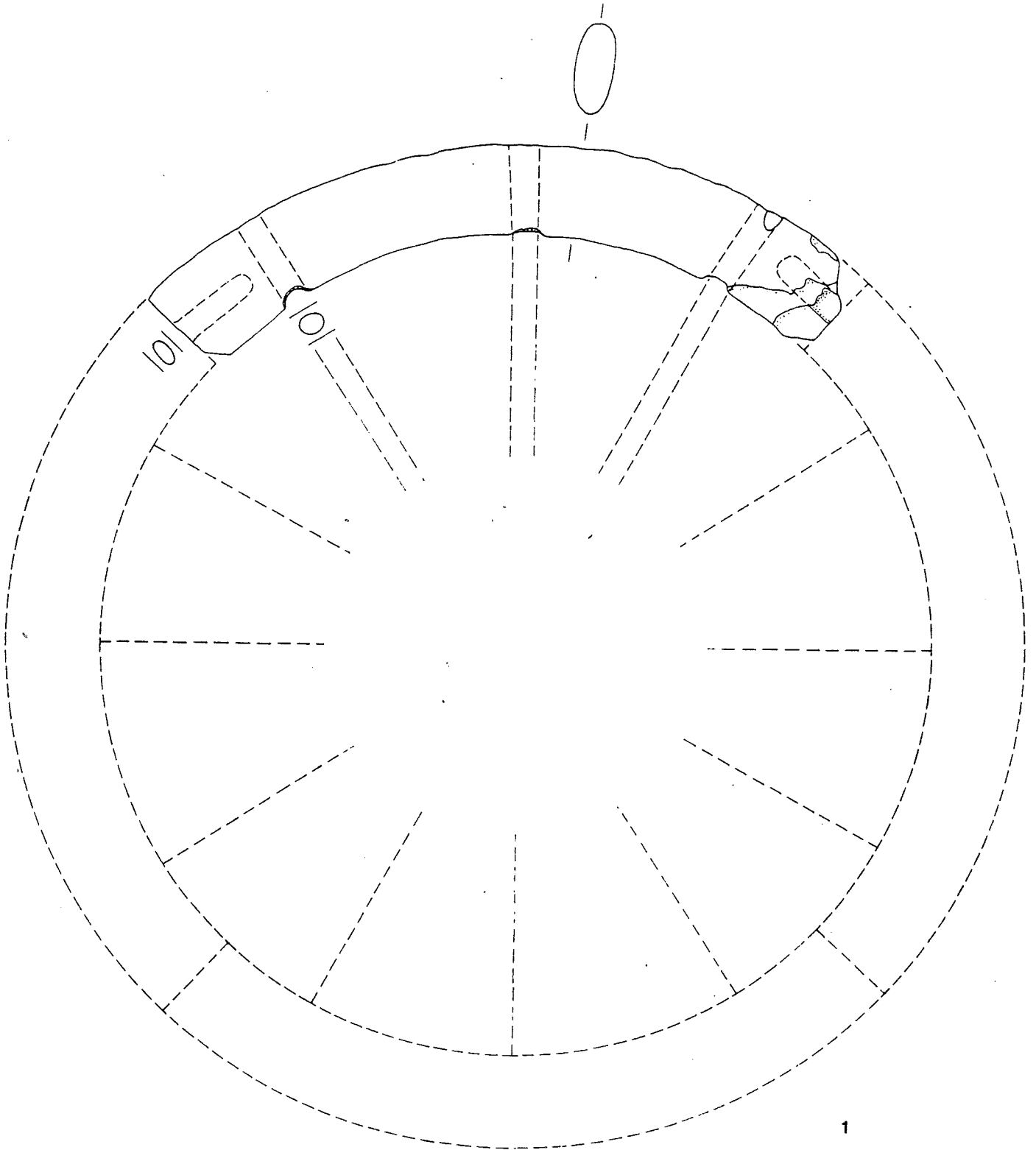


fig 218 Type 6.3.1.2.
1 : Ezinge.

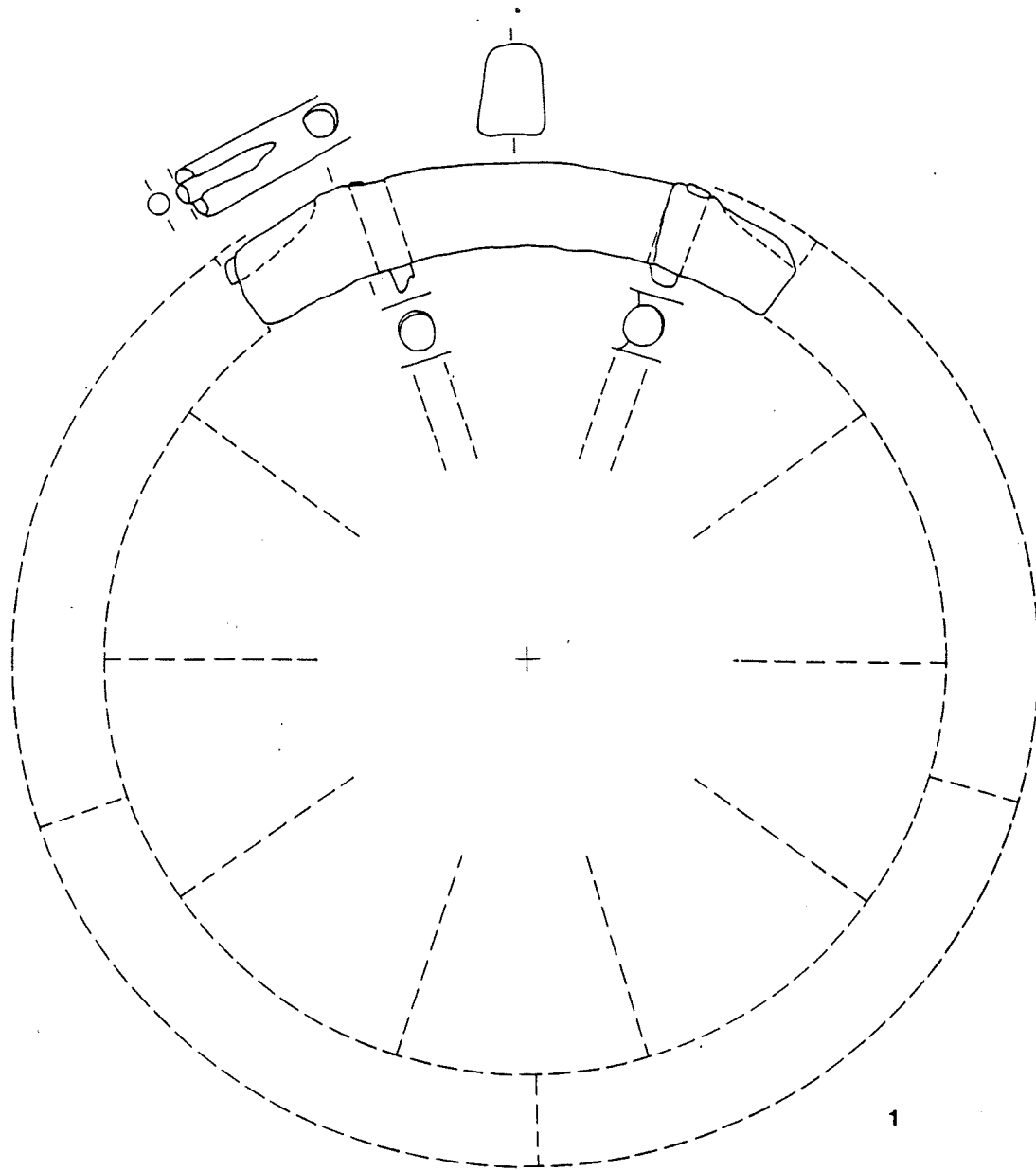


fig 219 Type 6.3.1.2.
1 : Ezinge.

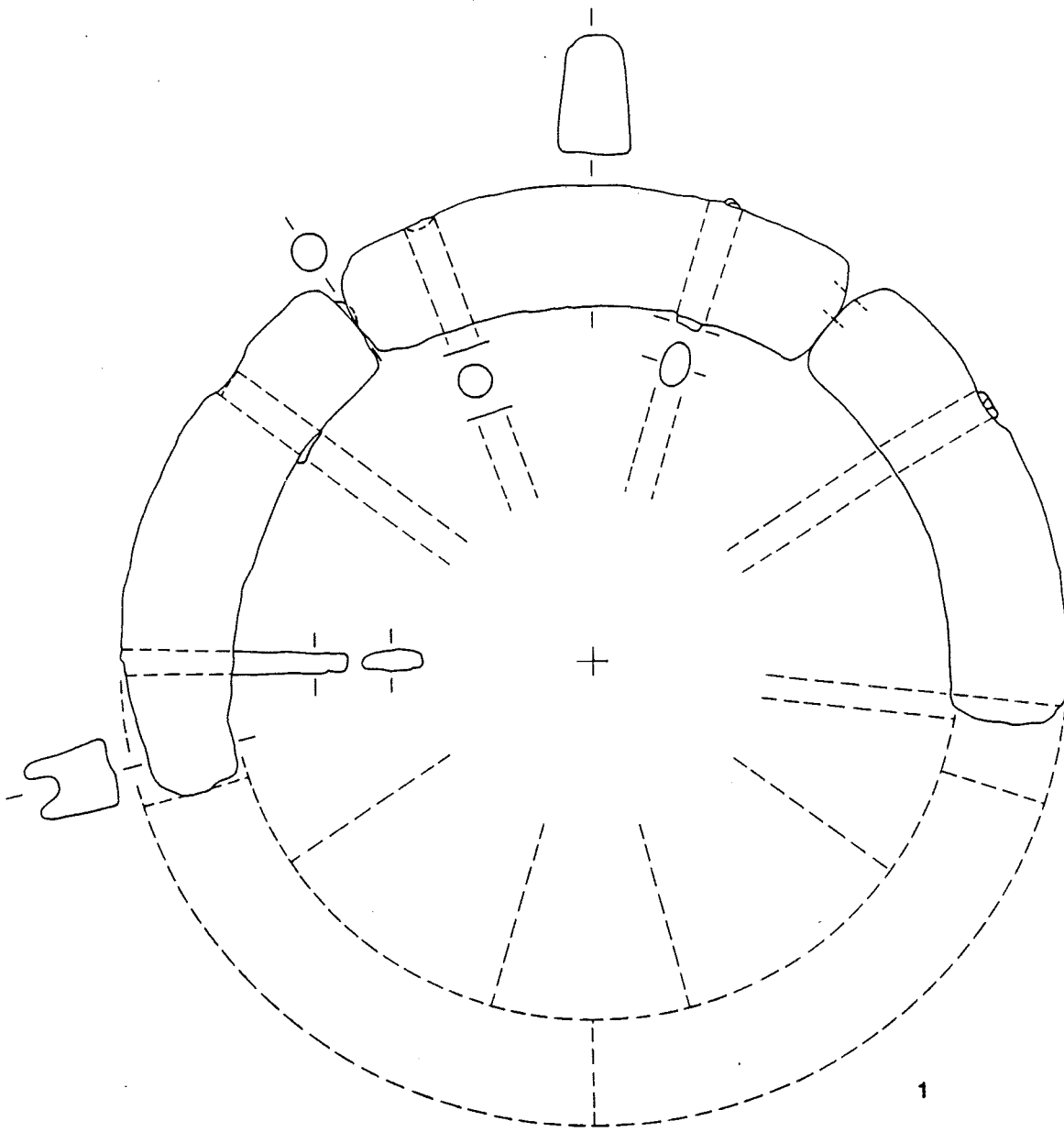


fig 220 Type 6.3.1.2.
1 : Ezinge.

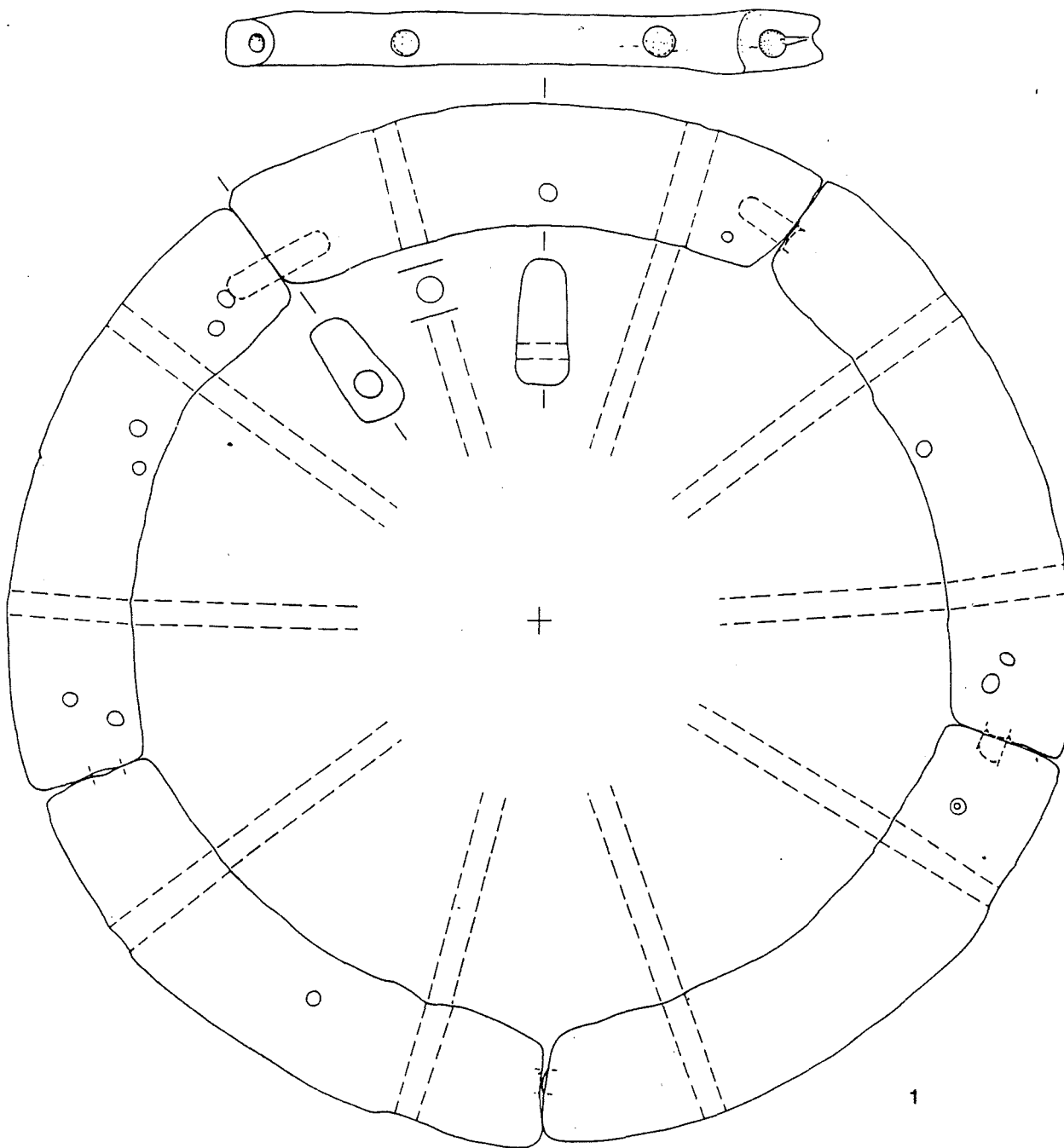


fig 221 Type 6.3.1.2.
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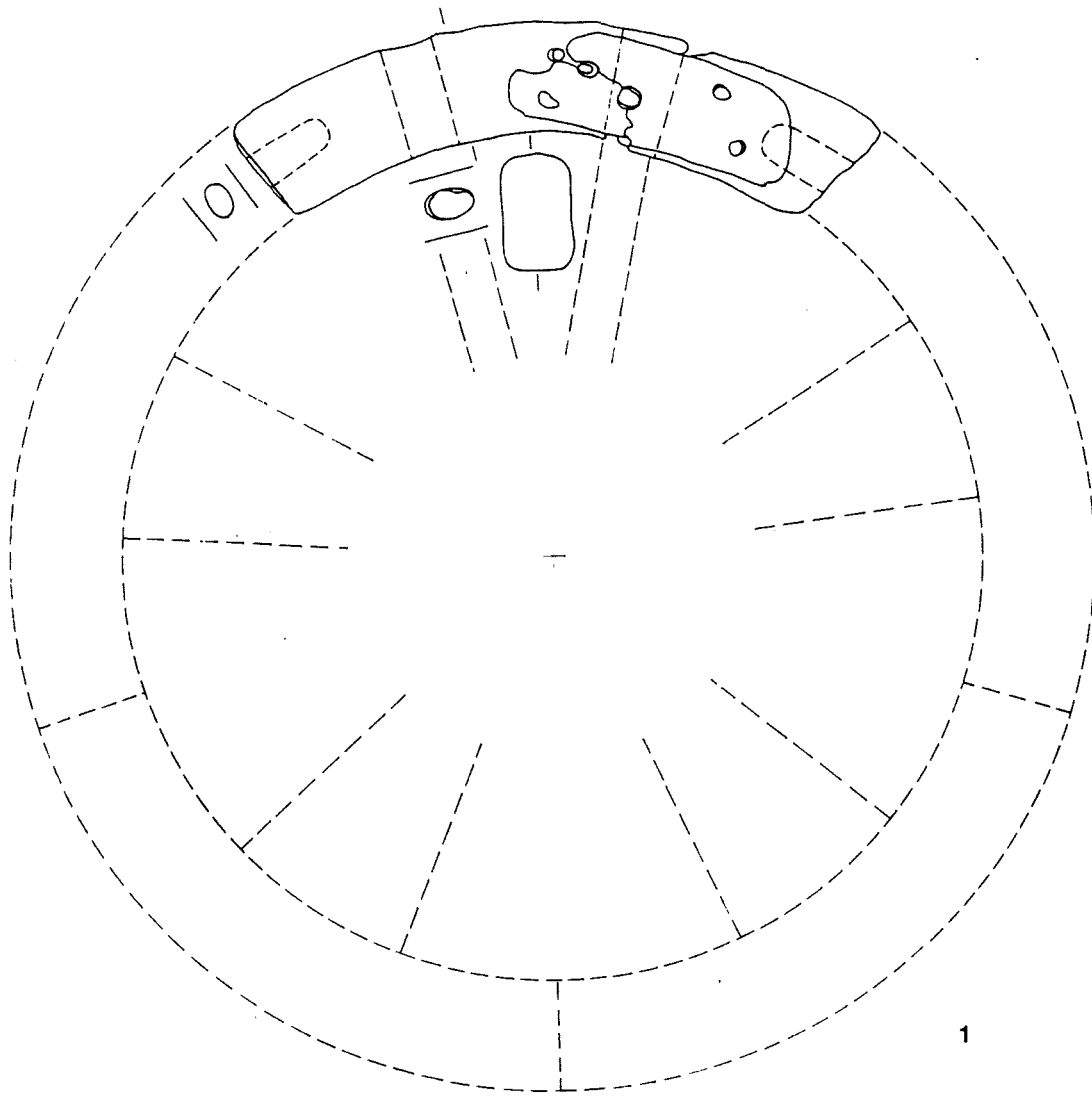
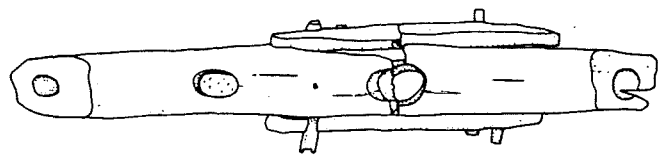


fig 222 Type 6.3.1.2.
1 : Dorkwerd.

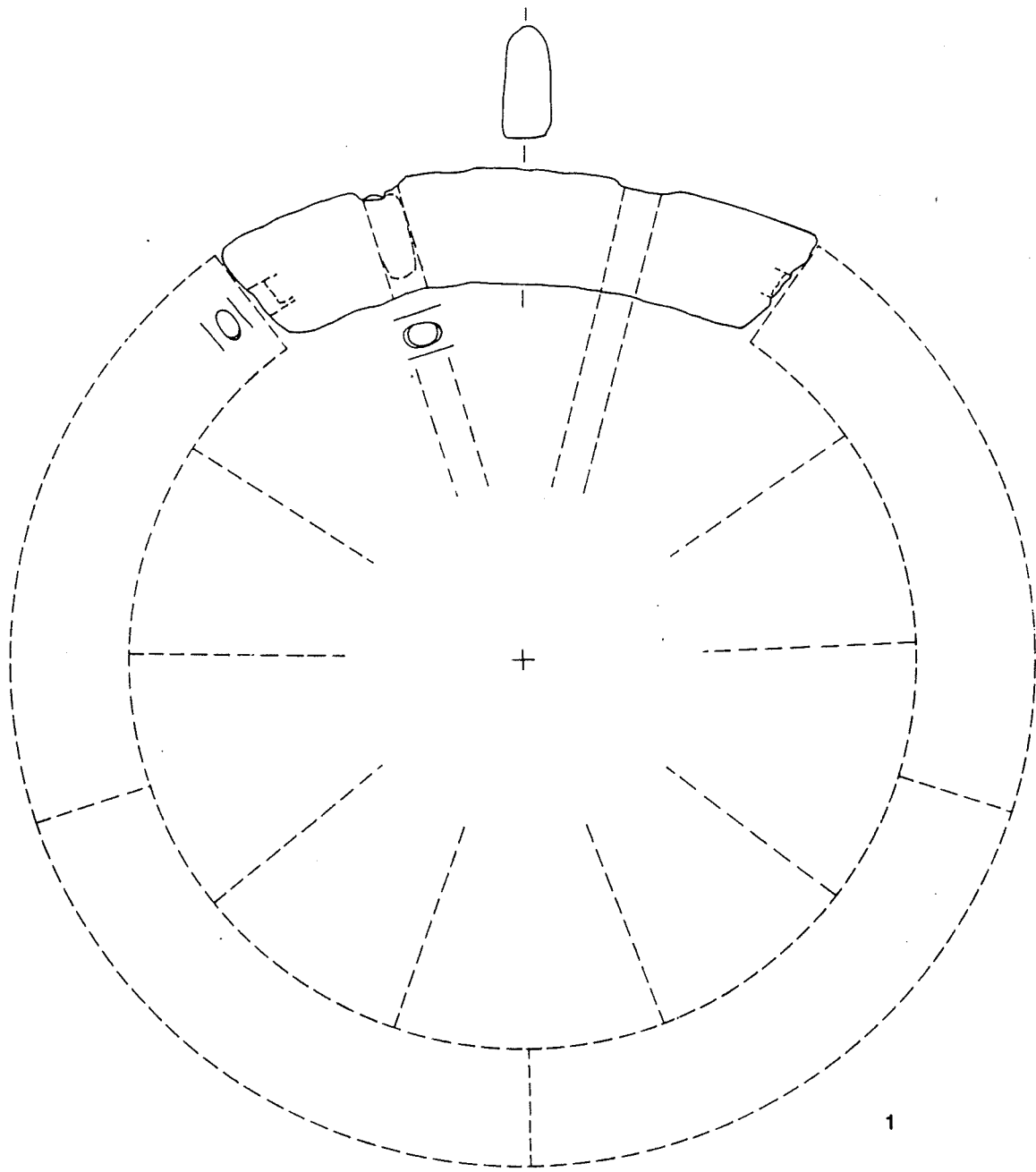
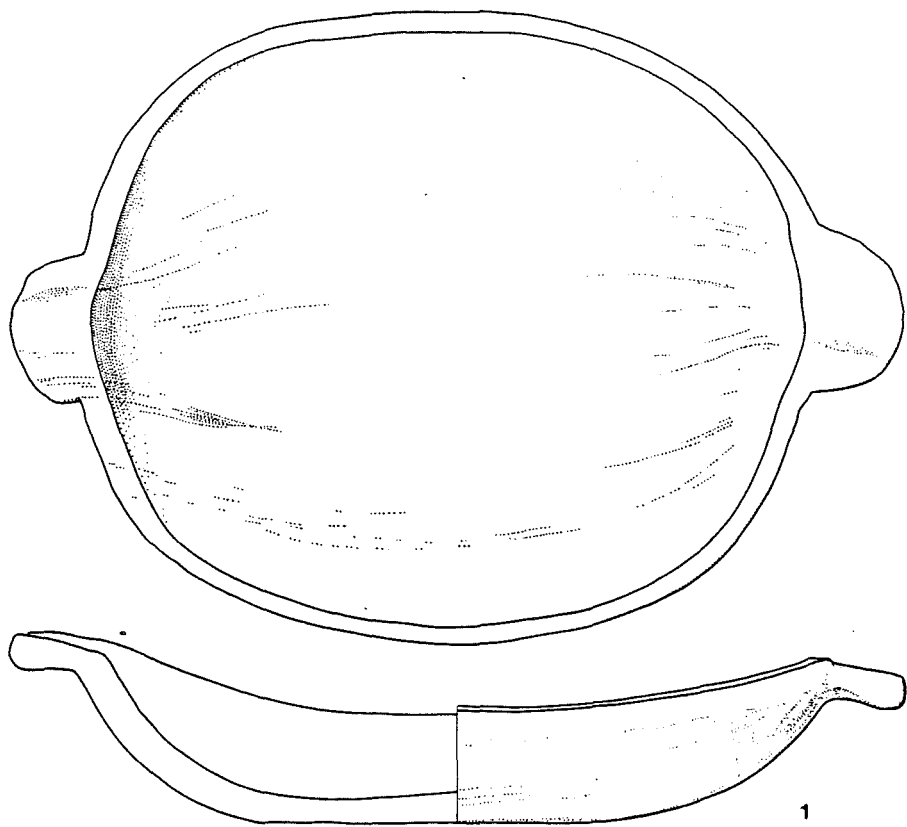
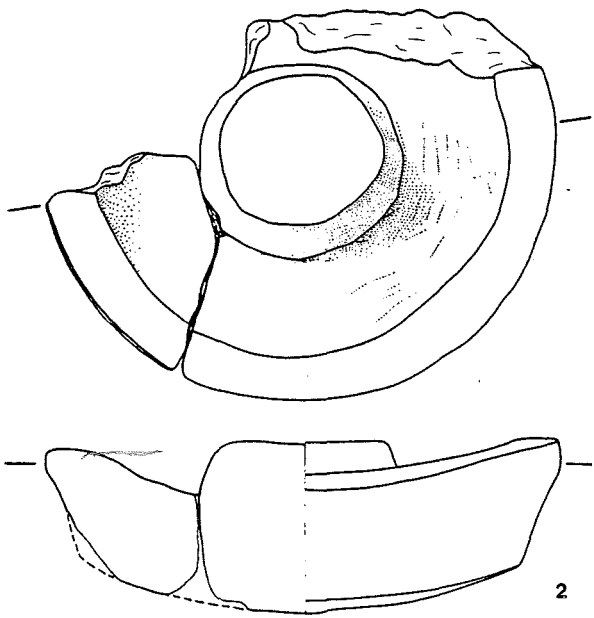


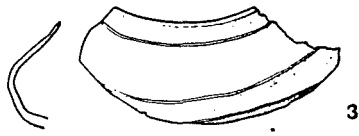
fig 223 Type 6.3.1.2.
1 : Dorkwerd.



1



2



3



4

fig 224 Type 6.3.2.1.
1 : Joeswerd; 2 Paddepoel; 3, 4 : Garnwerd.

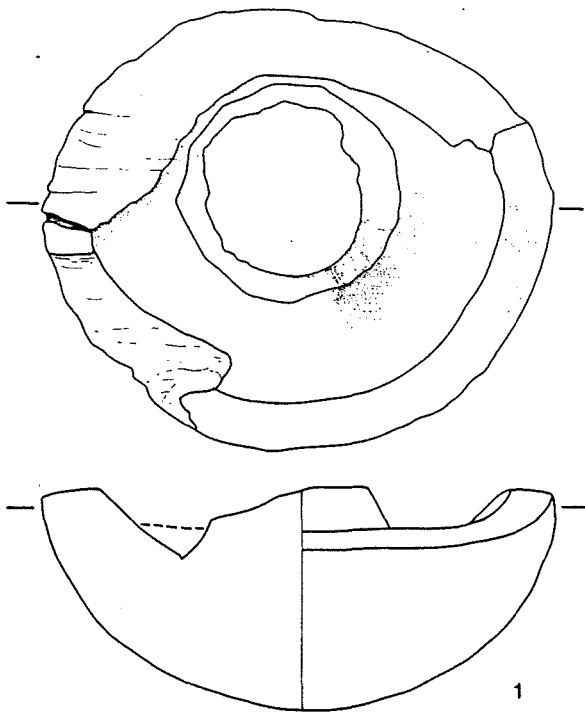


fig 225 Type 6.3.2.1.
1 : Paddepoel.

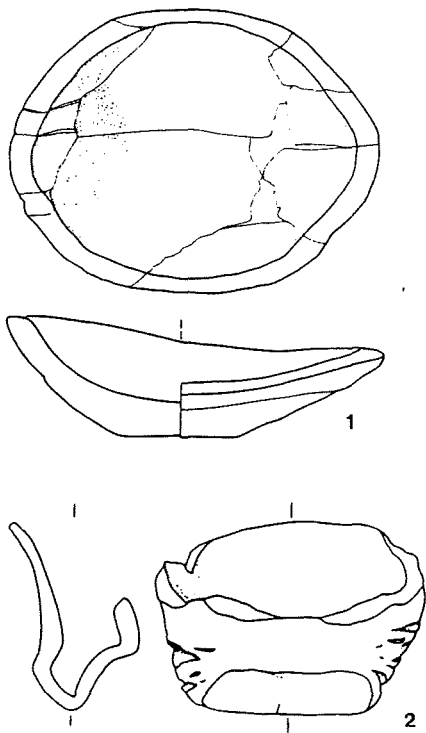


fig 226 Type 6.3.2.2.
1 : Ezinge; 2 : Wierum.

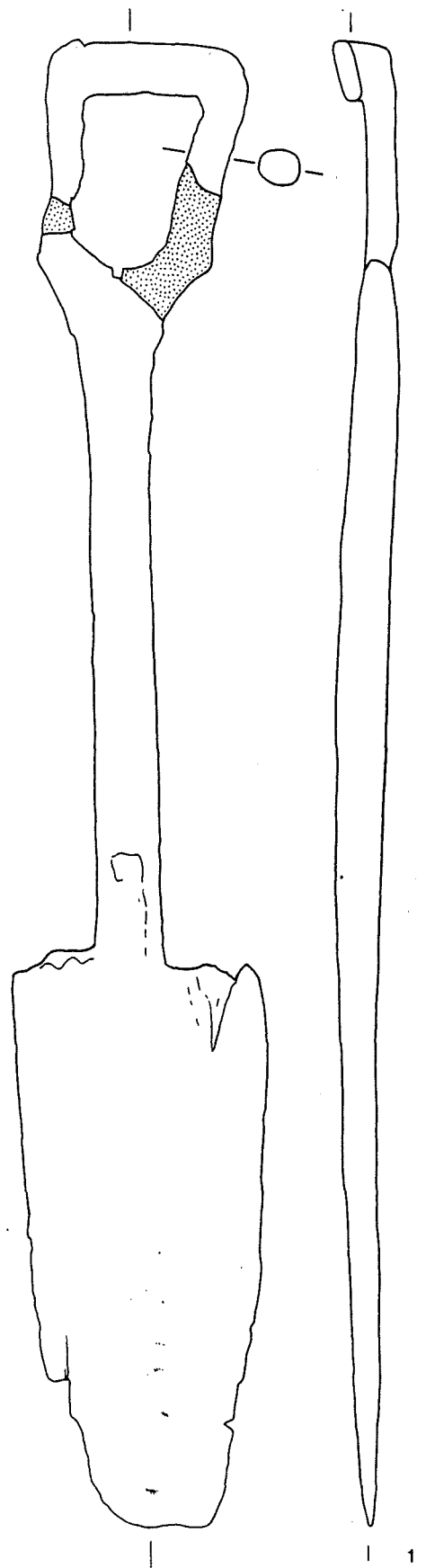


fig 227 Type 6.3.8.
1 : Joeswerd.

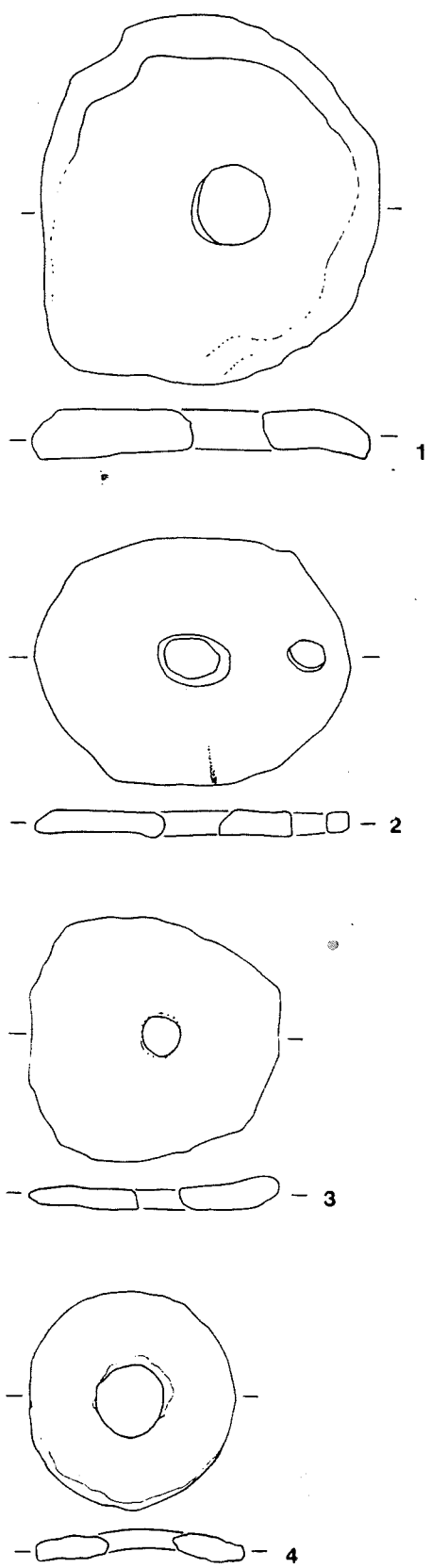


fig 228 Type 6.3.3.
1, 2, 3 : Dorkwerd; 4 : Ezinge.

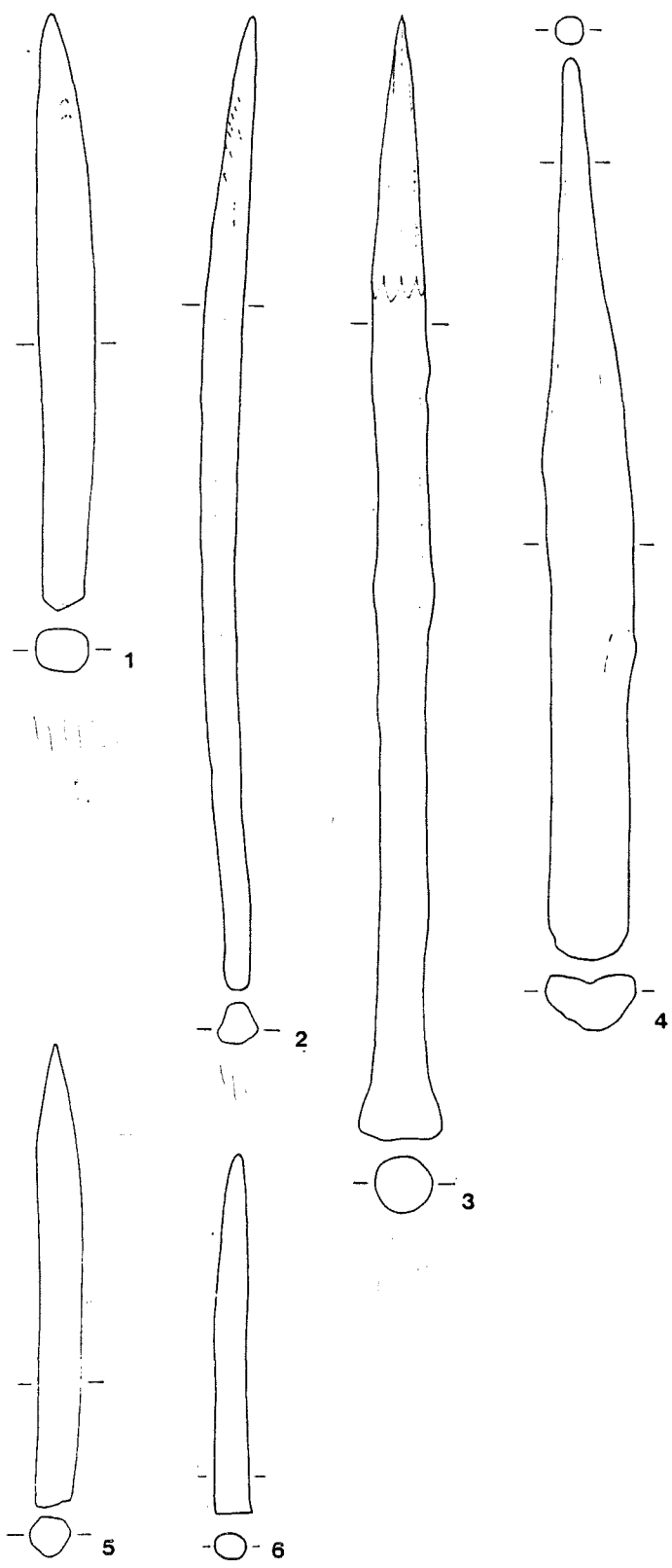


fig 229 Type 6.3.5.
1, 2, 3, 5 : Ezinge; 4 : Antum; 6 : Aalsum.

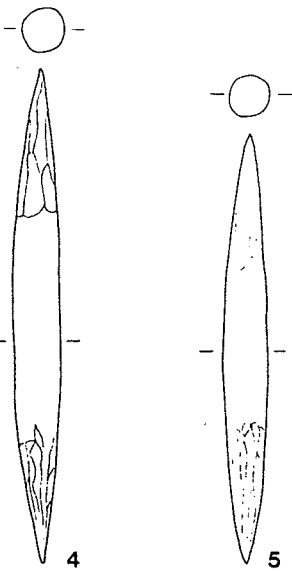
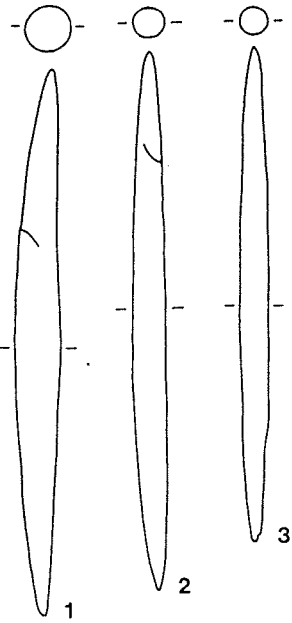


fig 230 Type 6.3.4.
1, 2, 3 : Aalsum;
4, 5 : Feerwerd-Z.

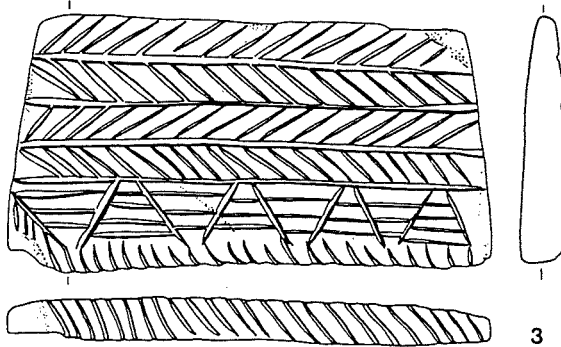
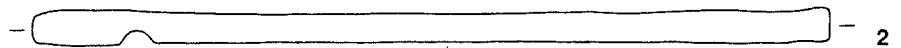
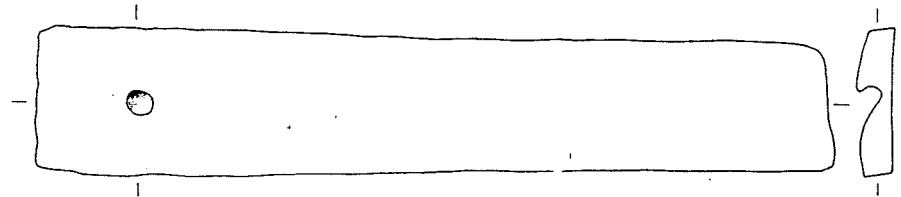
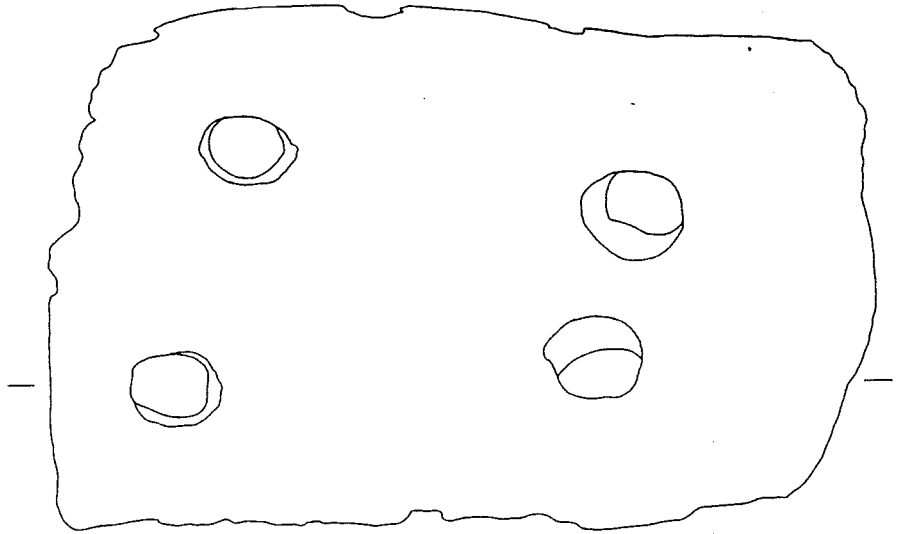


fig 231 Type 6.3.7.
1 : Dorkwerd; 2, 3 : Ezinge.

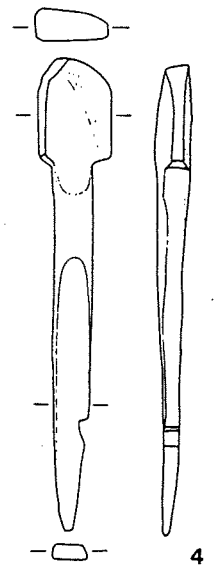


fig 232 Type 6.3.6.
1 : Garnwerd

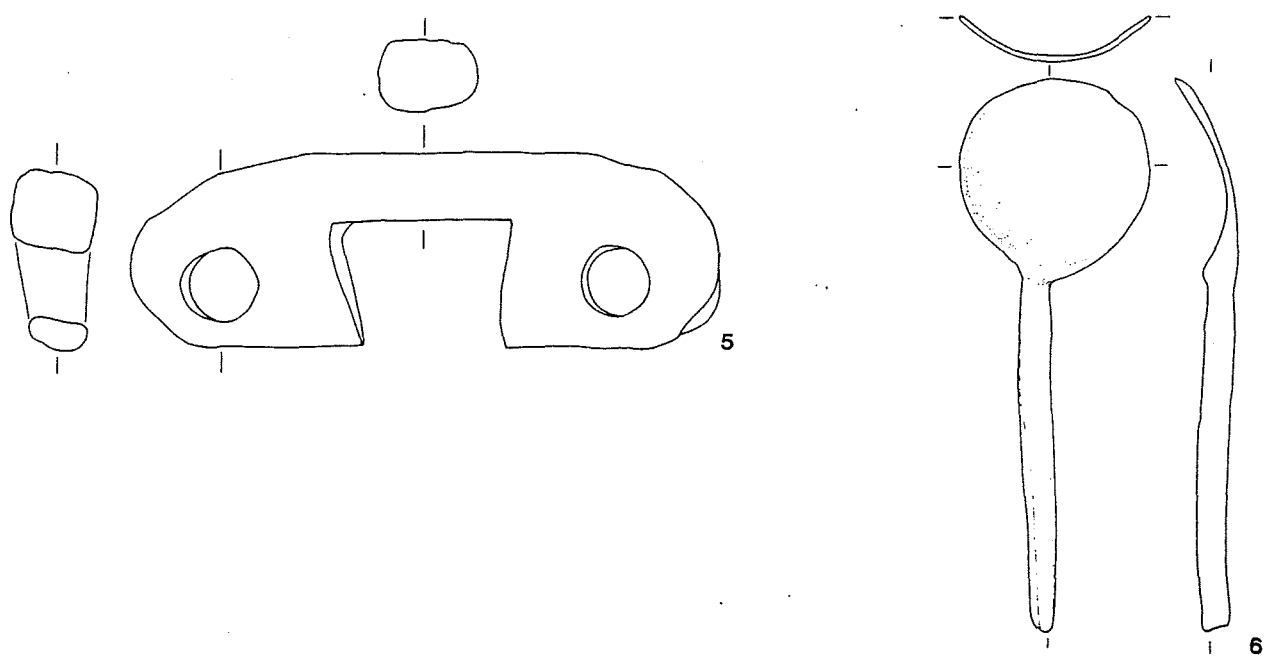
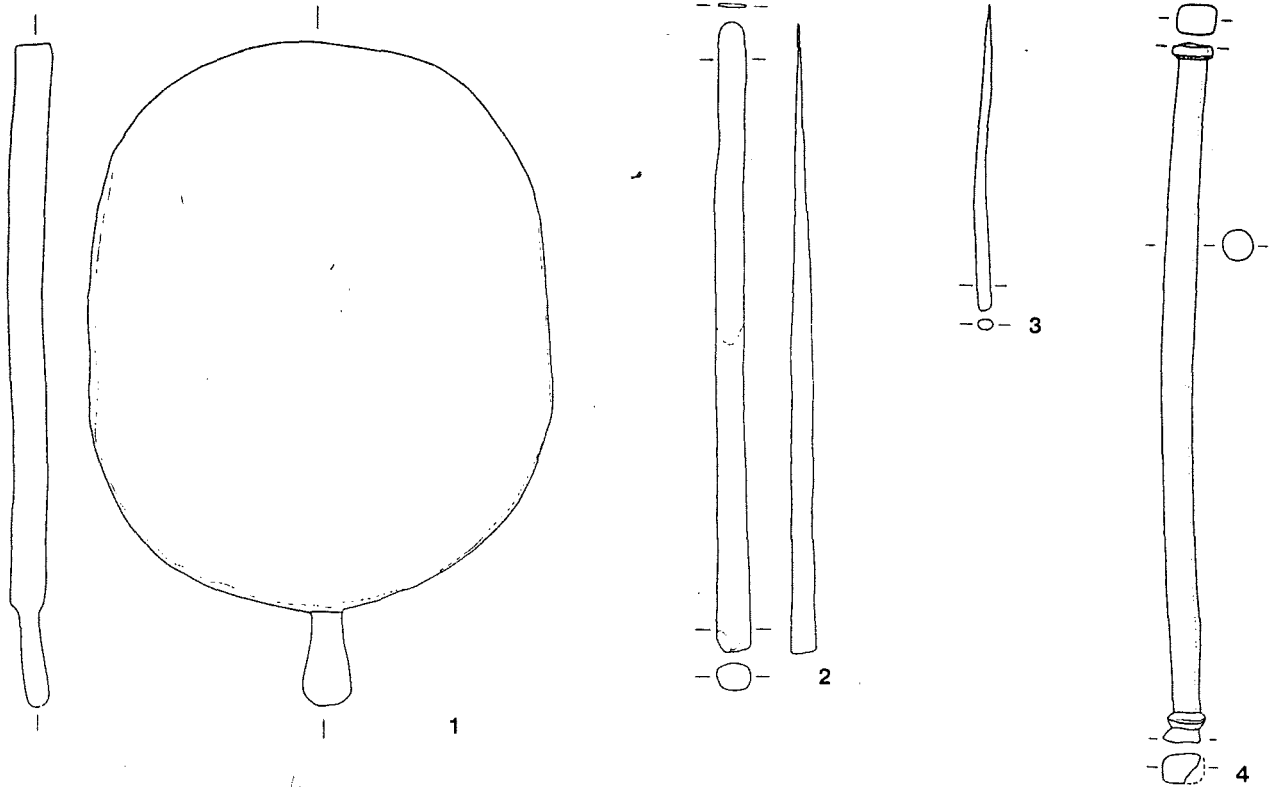


fig 233 Type 6.3.9.
 1, 3, 4 : Ezinge; 2 : Garnwerd; 5 : Dorkwerd; 6 : Oostum.

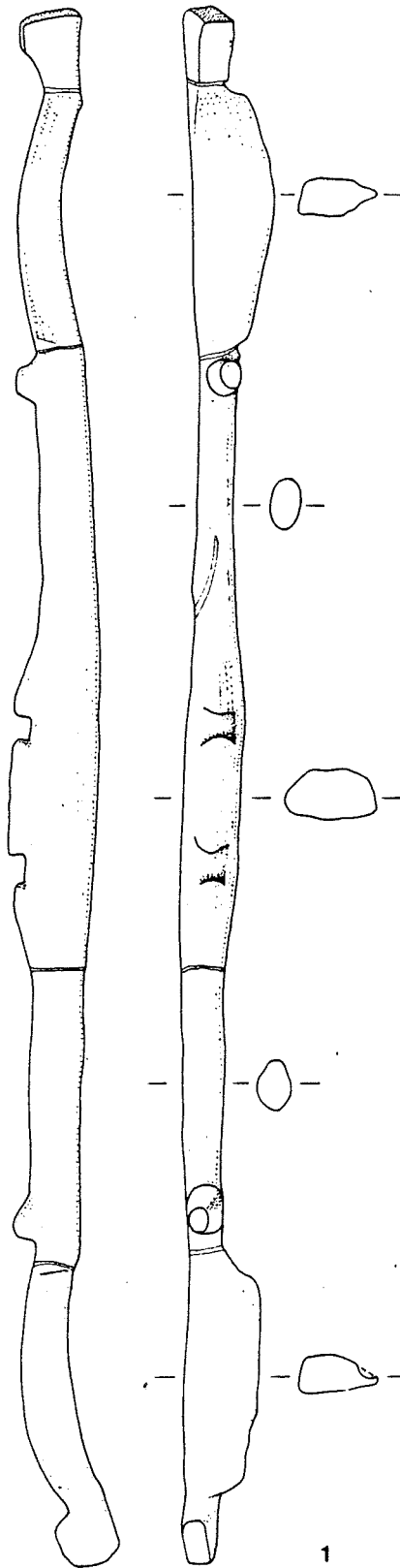


fig 234 Type 6.3.9.5.
1 : Ezinge.

Stenen voorwerpen

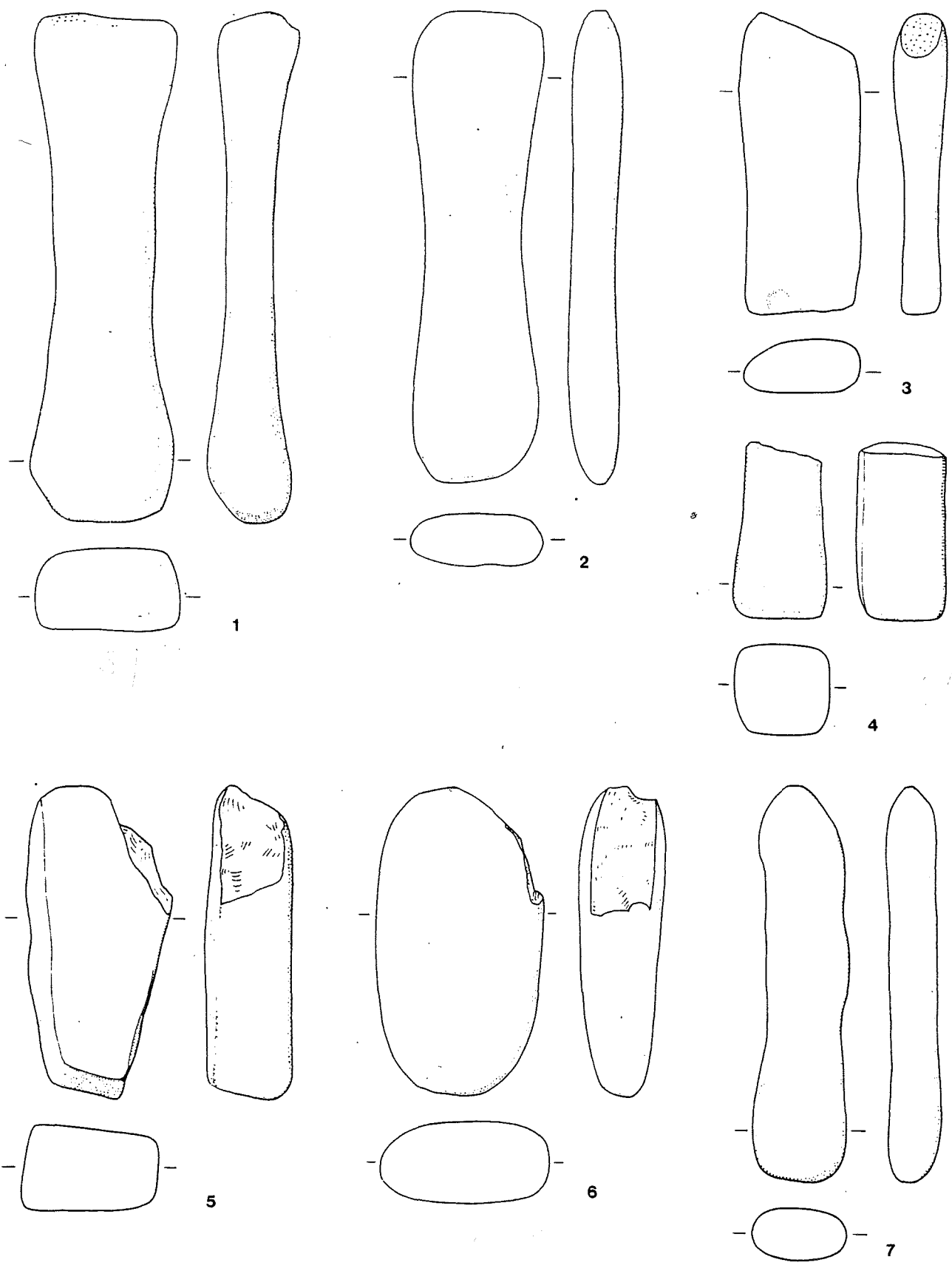


fig 235 Type 7.1.
 1, 4, 6 : Ezinge; 2 : Joeswerd; 3 : Antum; 5 : Feerwerd-Z; 7 : Dorkwerd.

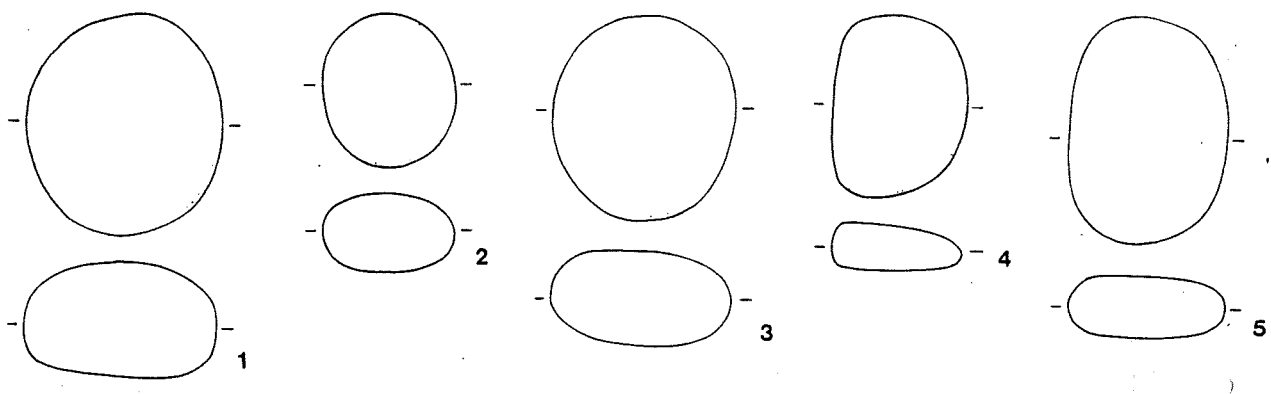


fig 236 Type 7.2.
 1, 5 : Ezinge; 2 : Joeswerd; 3 : Brillerij; 4 : Antum.

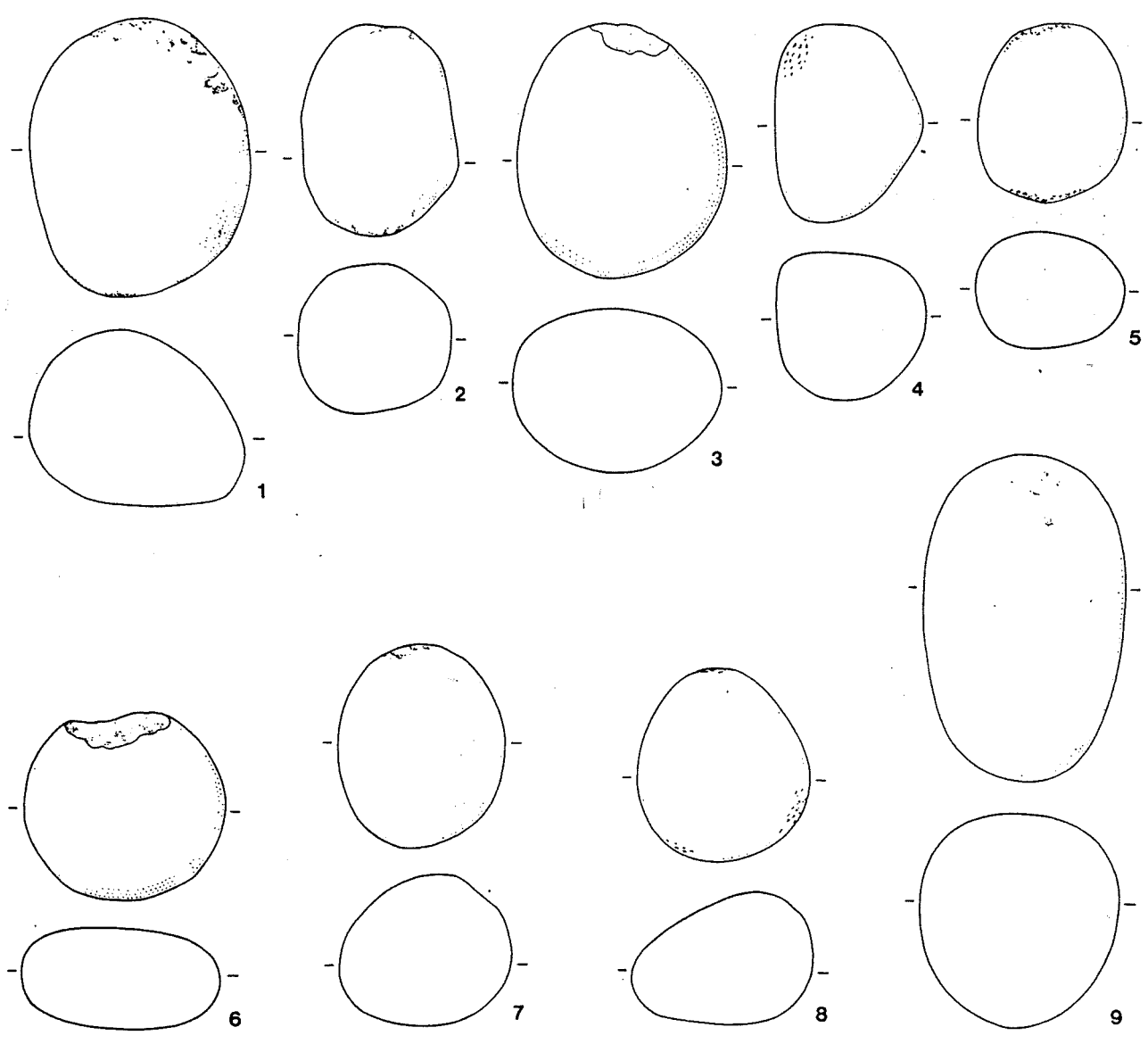


fig 237 Type 7.3.
 1, 3, 8 : Ezinge; 2, 4, 5, 7 : Paddepoel; 6, 9 : Joeswerd.

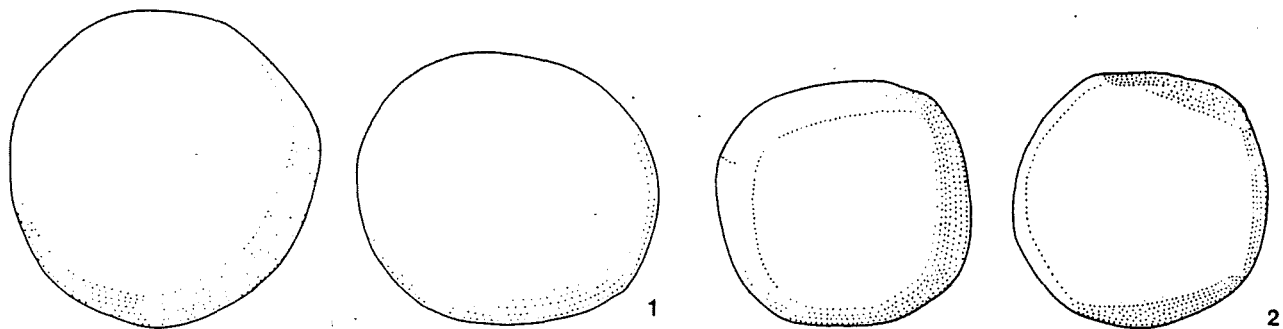


fig 238 Type 7.4.1.
1 : Ezinge; 2 : Joeswerd

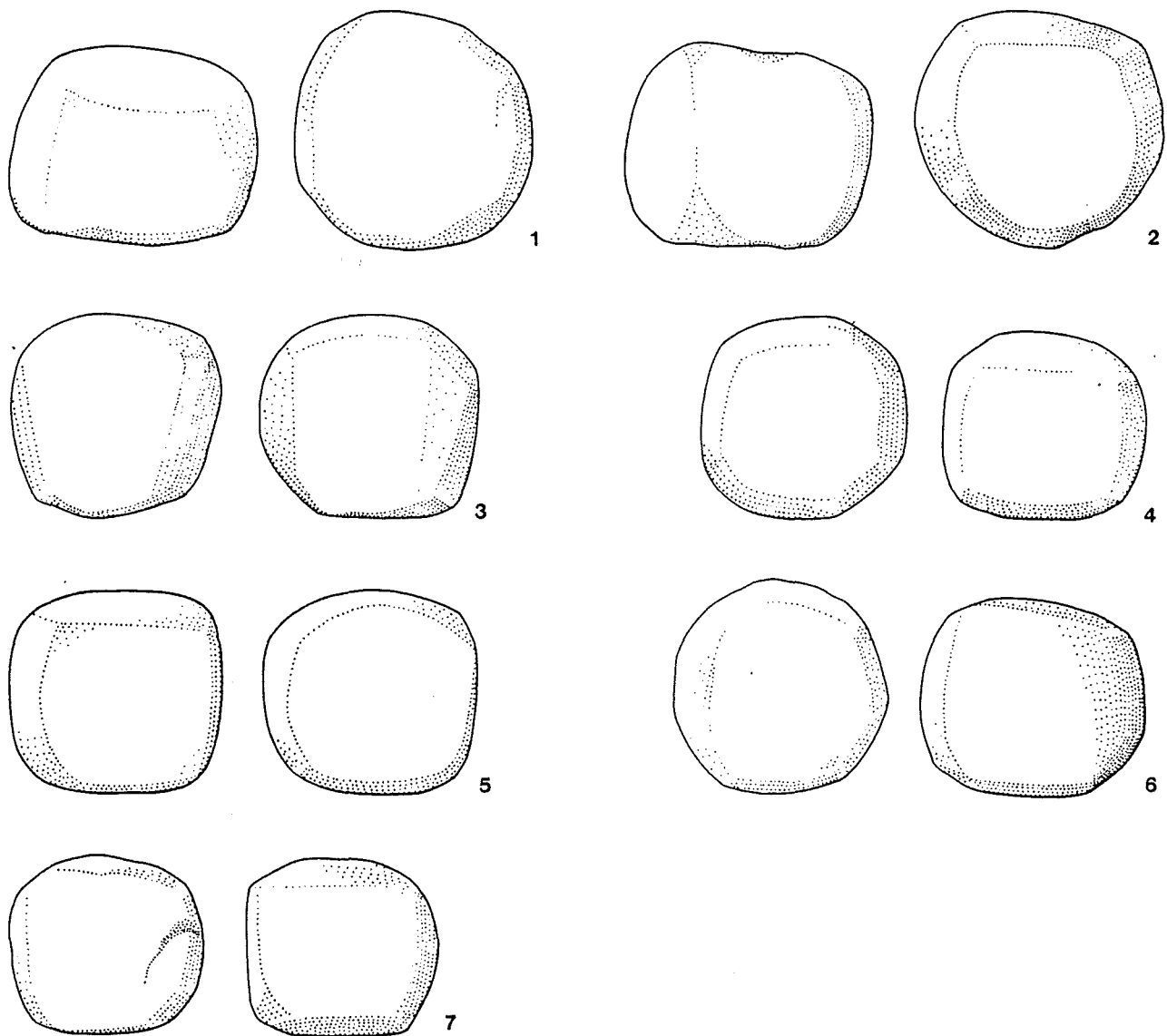


fig 239 Type 7.4.2.
1, 2, 5 : Ezinge; 3, 4 : Brillerij; 6, 7 : Joeswerd.

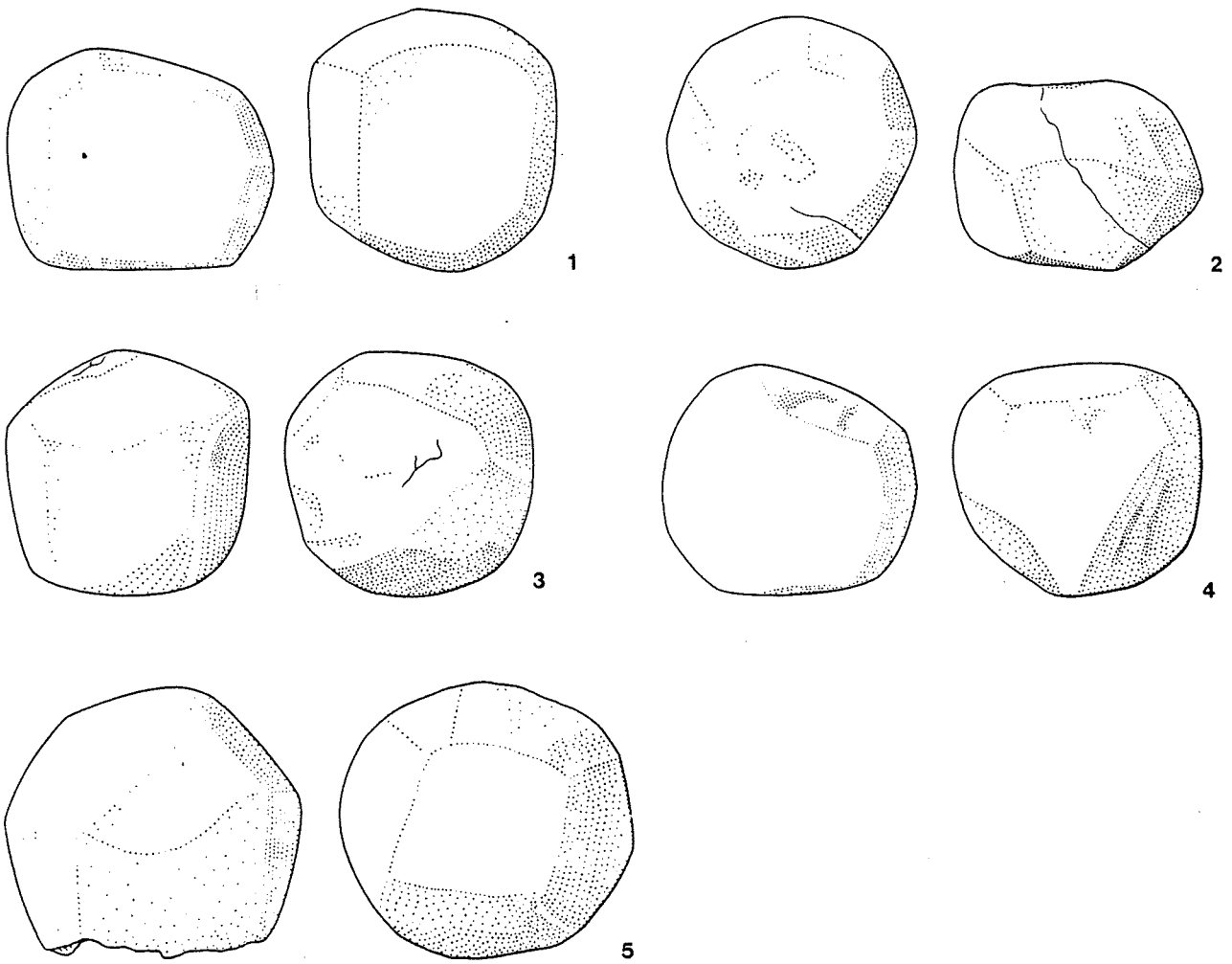


fig 240 Type 7.4.3.
 1 : Ezinge; 2 : Garnwerd; 3, 4, 5 : Joeswerd.

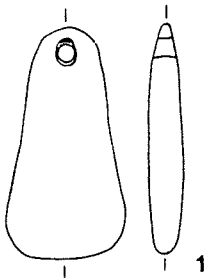


fig 241 Type 7.7.1.
 1 : Franssum.

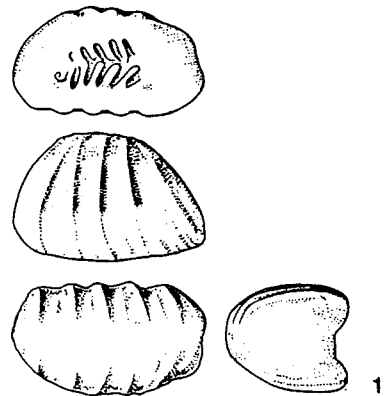
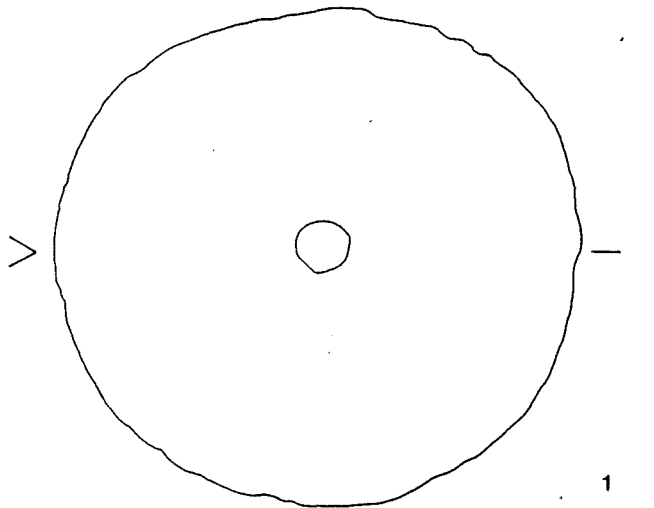
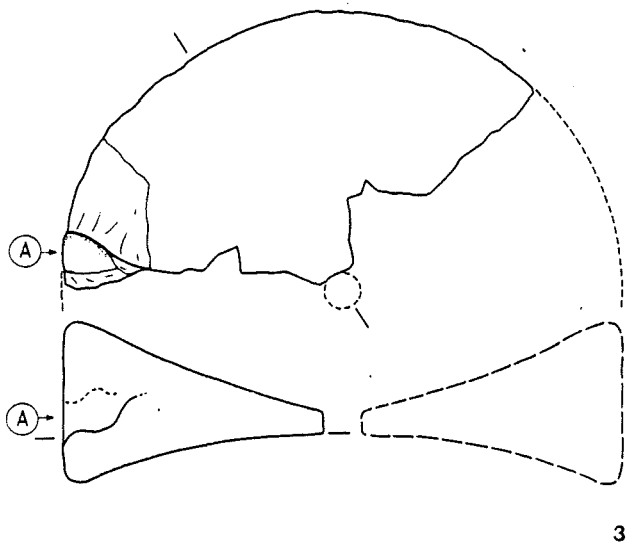
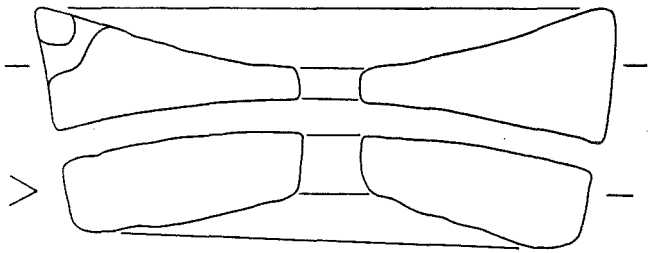
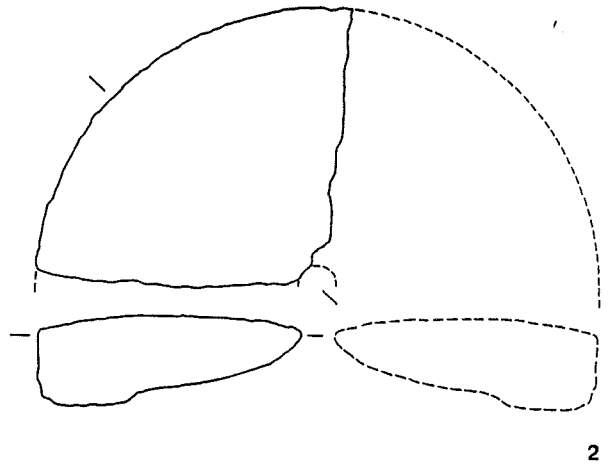
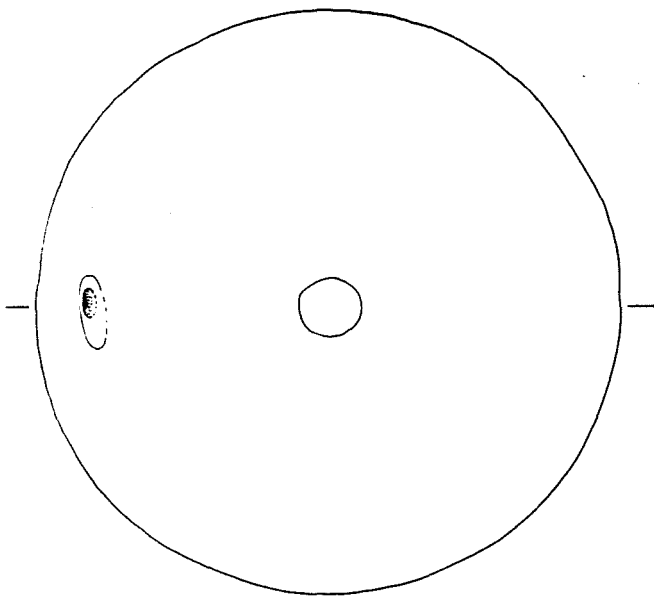


fig 242 Type 7.7.2.2.
 1 : Ezinge.

1 : 2



1

3

fig 243 Type 7.5.1.
1 : Brillierij; 2, 3 : Paddestoel.

1 : 5

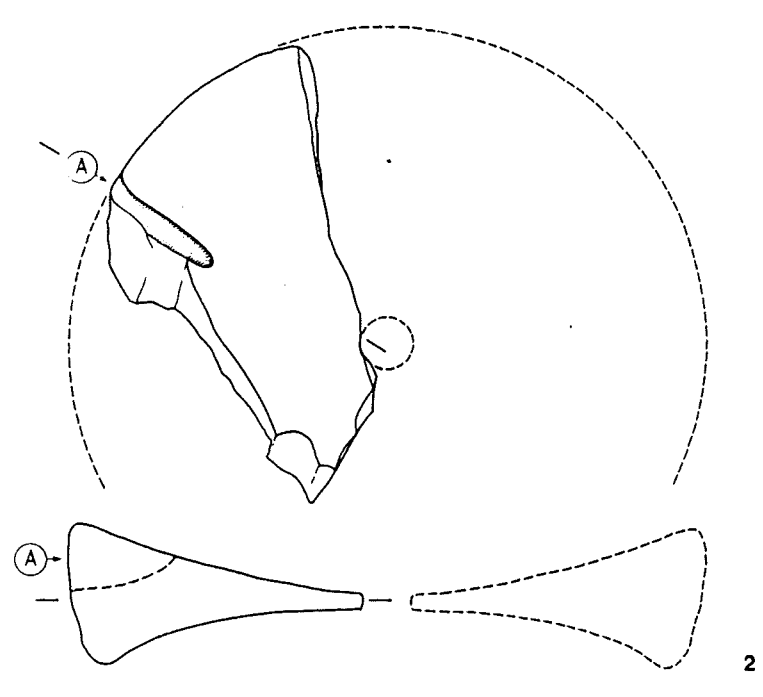
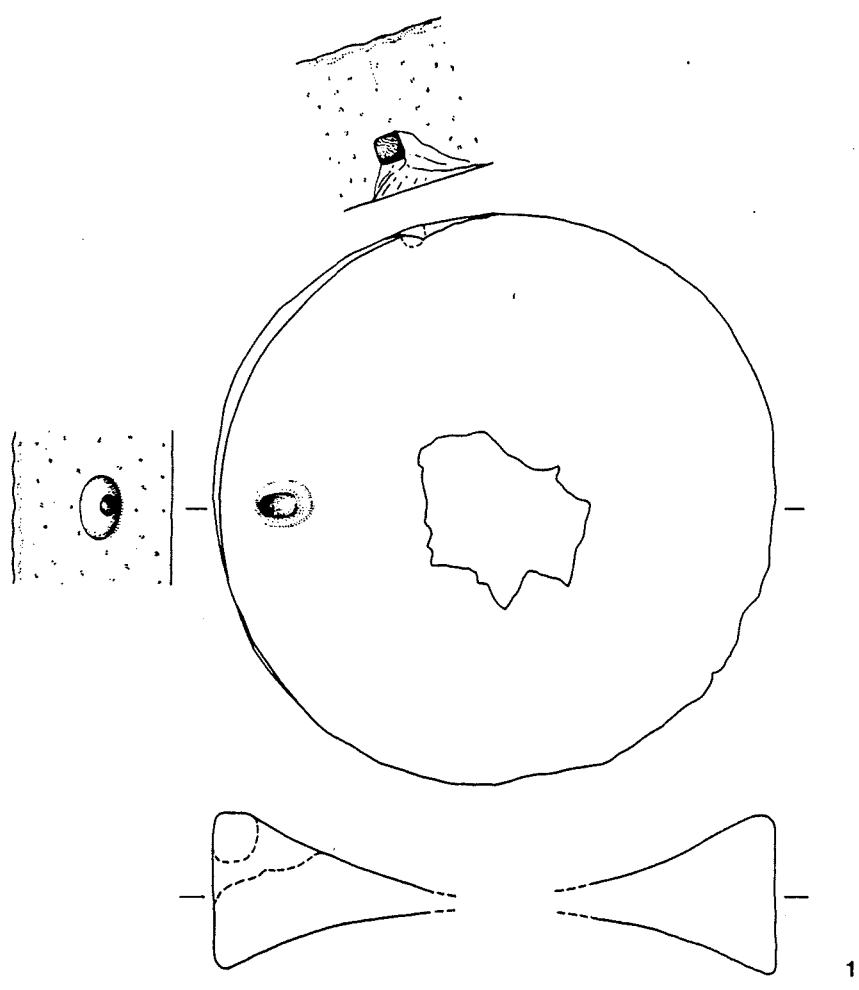
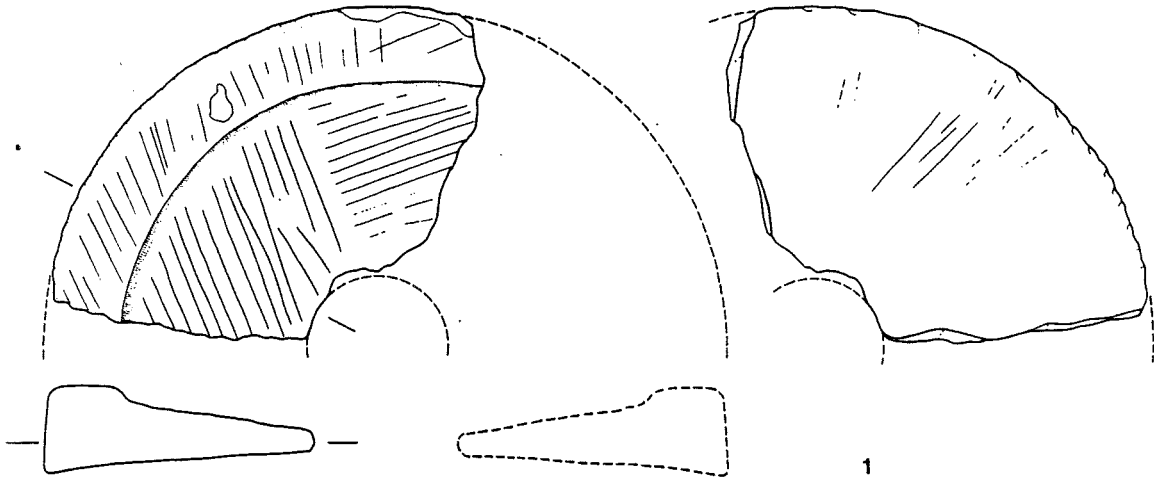
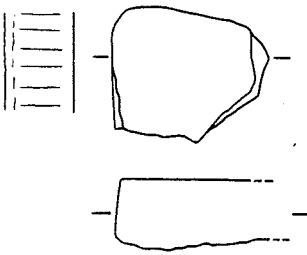


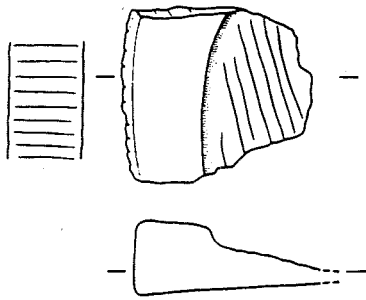
fig 244 Type 7.5.1.
1, 2 : Paddepoel.



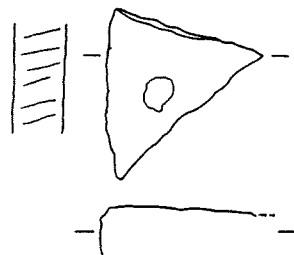
1



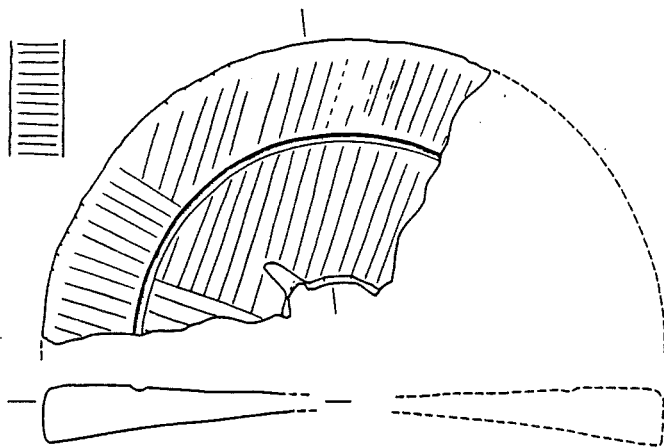
2



3



4



5

fig 245 Type 7.5.2.
1, 4, 5 : Ezinge; 2 : Dorkwerd; 3 : Paddepoel.

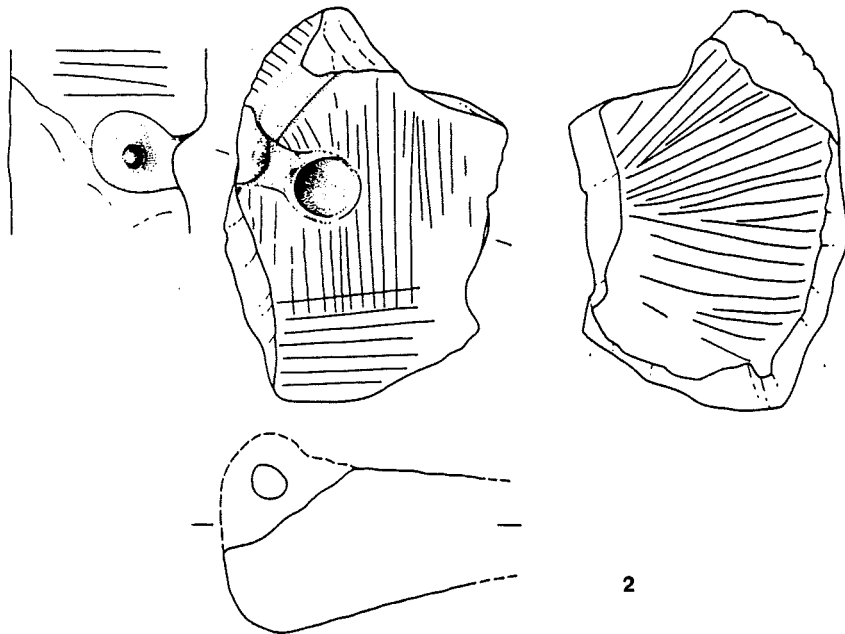
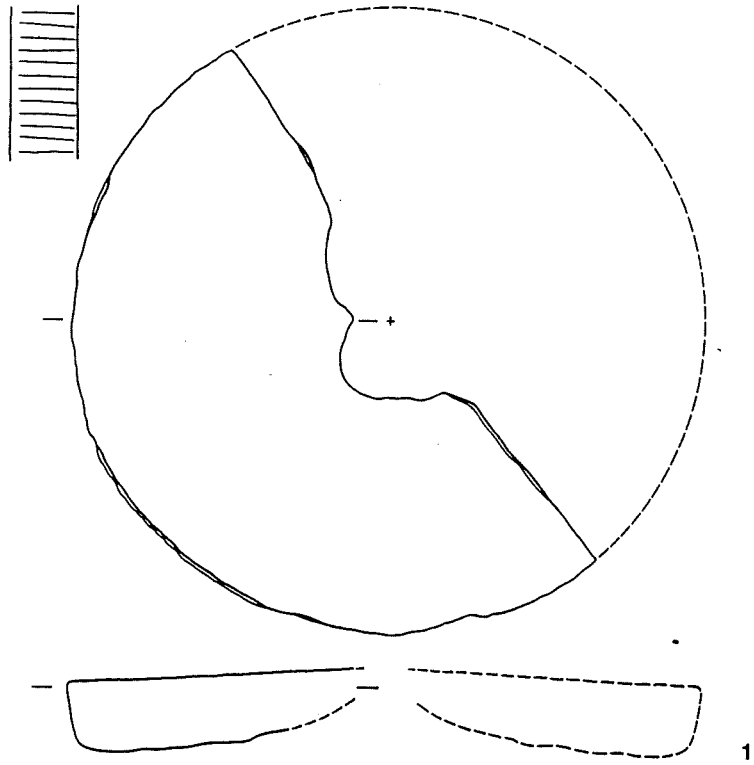


fig 246 Type 7.5.2.
1, 2 Ezinge.

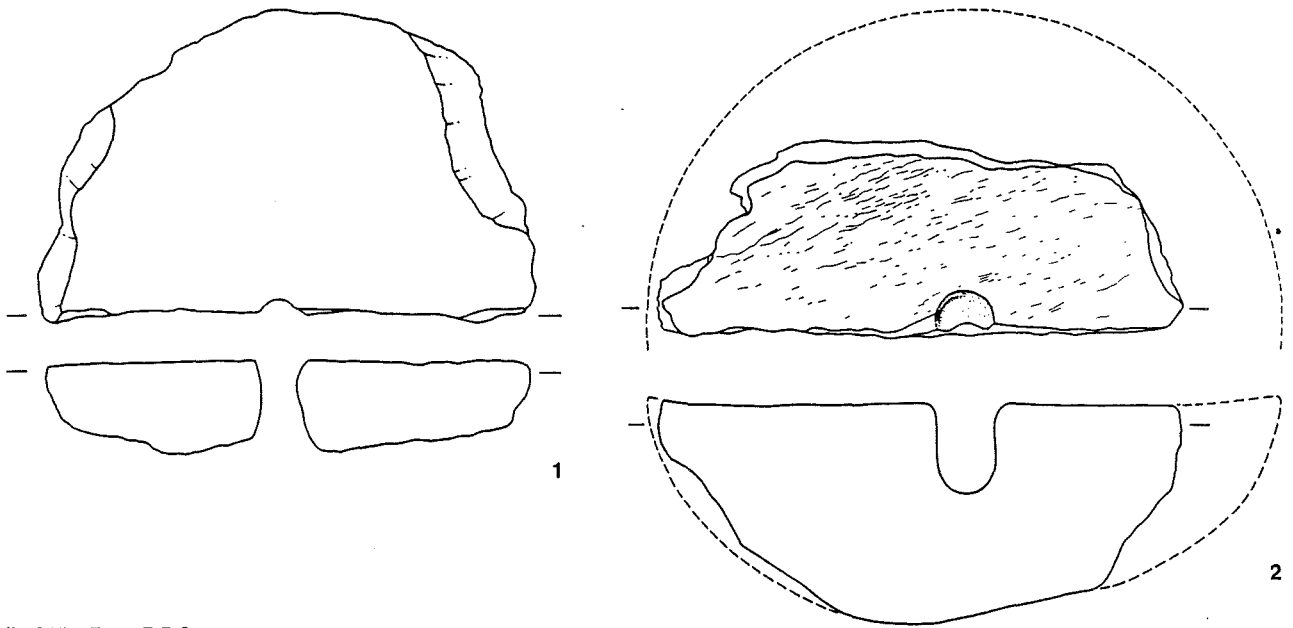


fig 247 Type 7.5.3.
1 : Aalsum; 2 : Paddepoel.

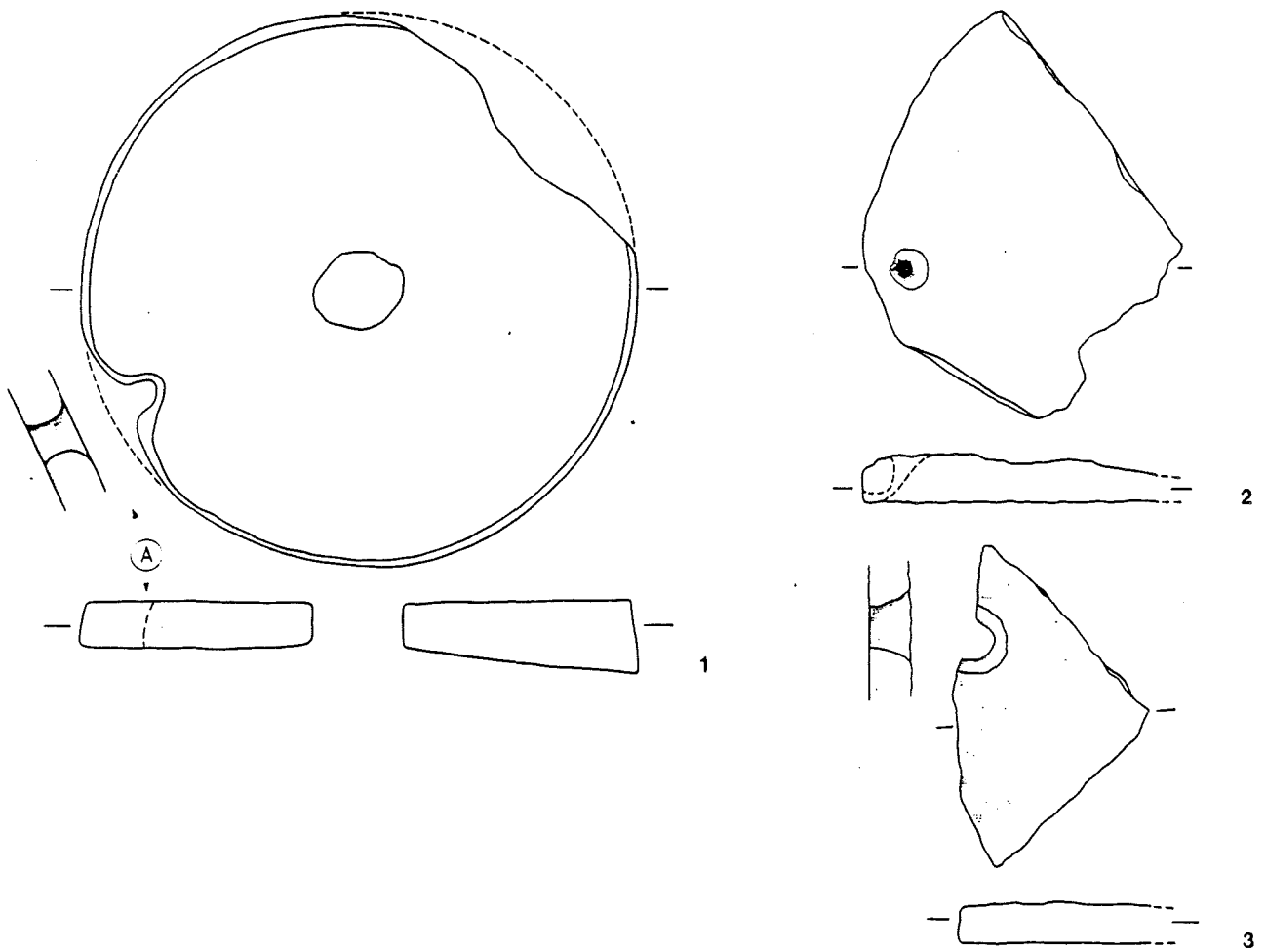


fig 248 Type 7.5.4.
1 : Feerwerd-N.; 2, 3 : Ezinge.

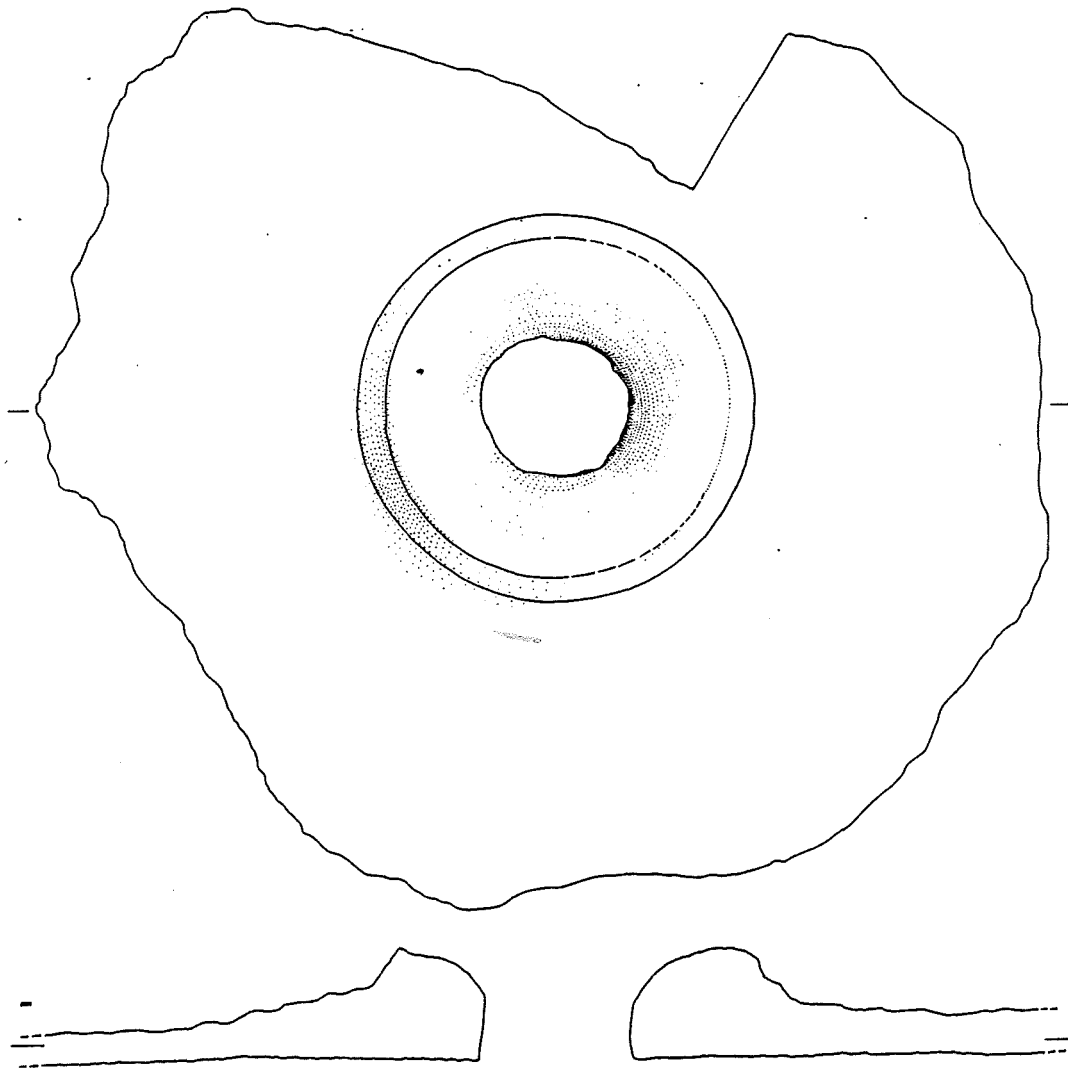


fig 249 Type 7.5.5.
1 : Groningen-stad.

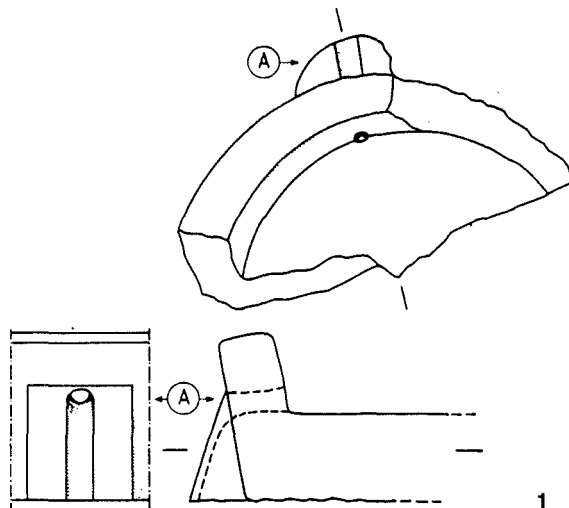
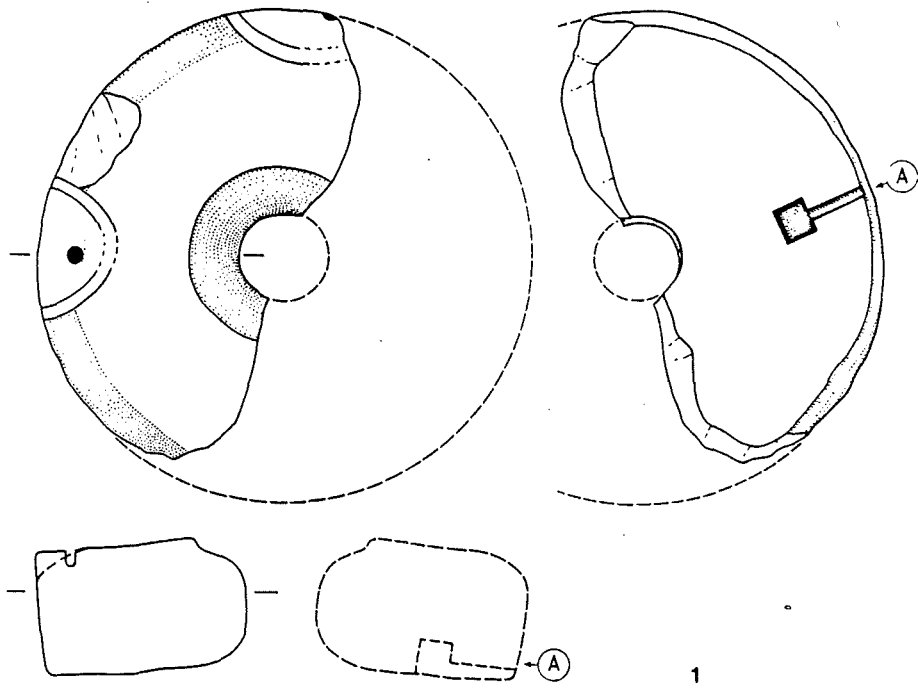
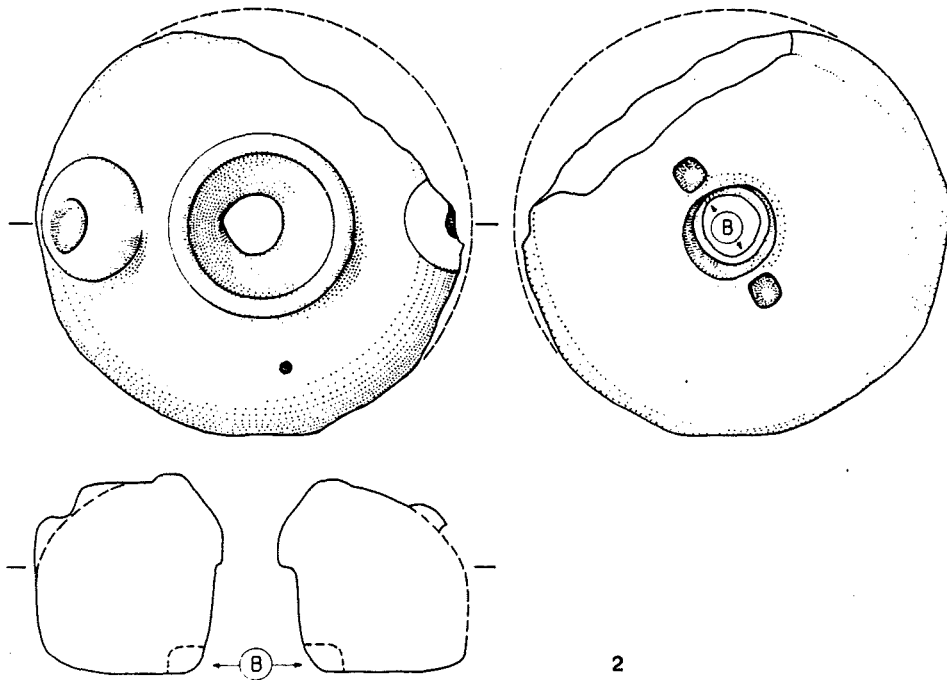


fig 250 Type 7.5.7.
1 : Garnwerd.

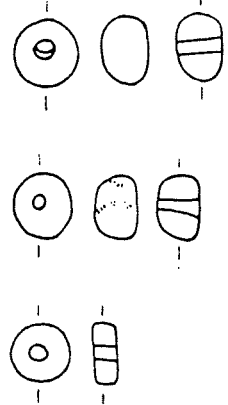
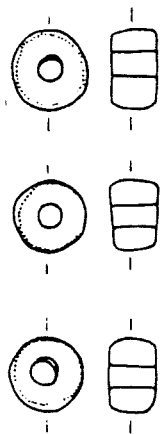
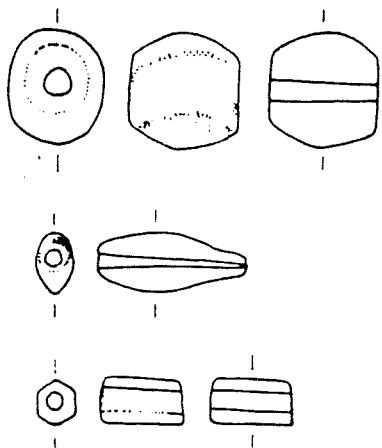


1

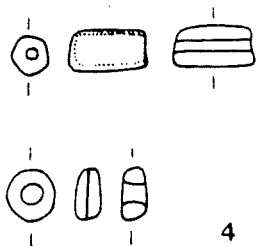


2

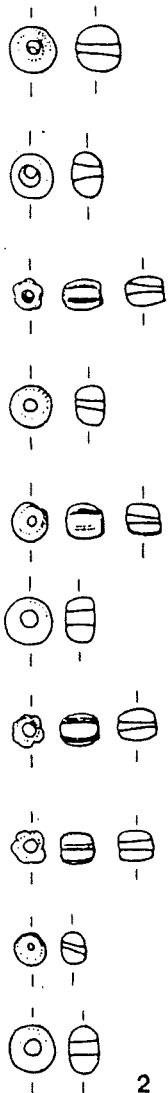
fig 251 Type 7.5.6.
1, 2 : Groningen-stad.



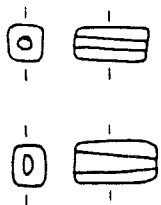
1



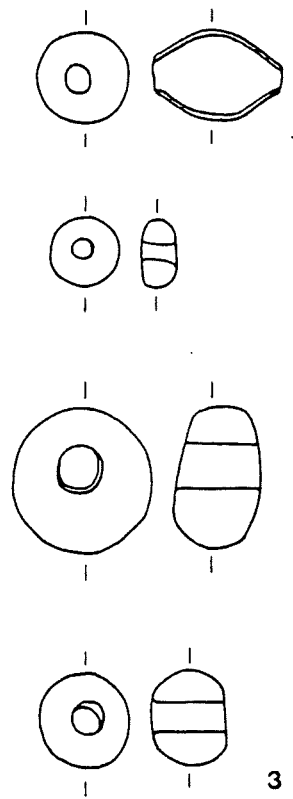
4



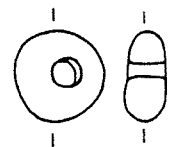
2



5



3



6

fig 252 Type 8.1.1.
1, 2, 3, 4, 5, 6 : Dorkwerd.

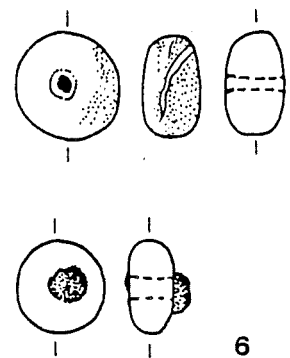
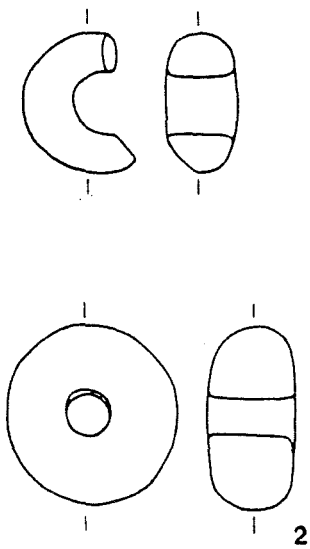
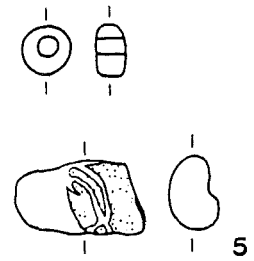
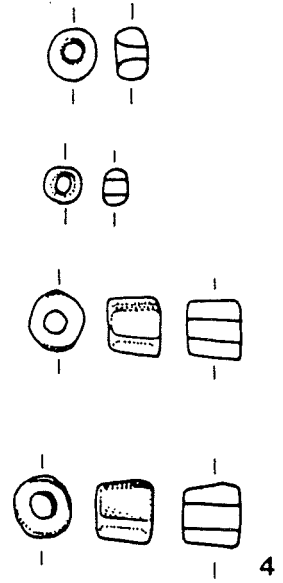
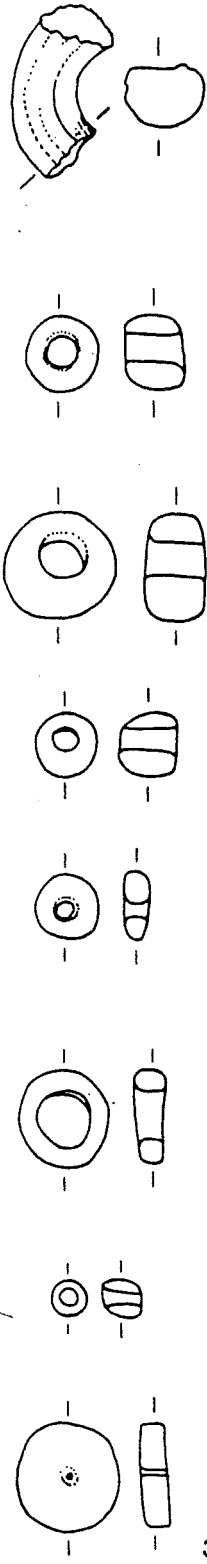
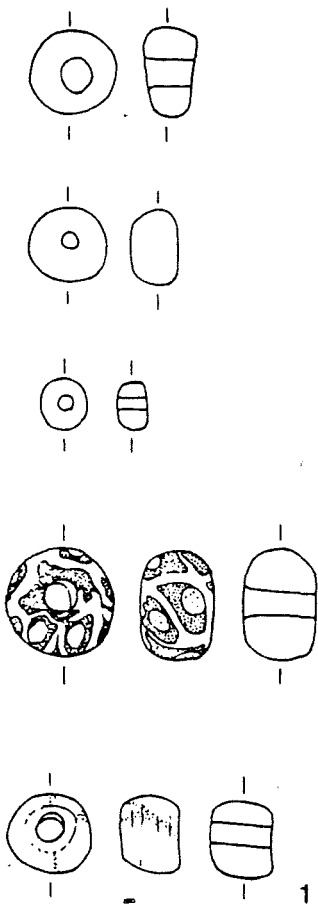


fig 253 Type 8.1.1.
 1 : Antum; 2, 4, 5 : Ezinge; 3 : Feerwerd-Z; 6 : Bauwert.

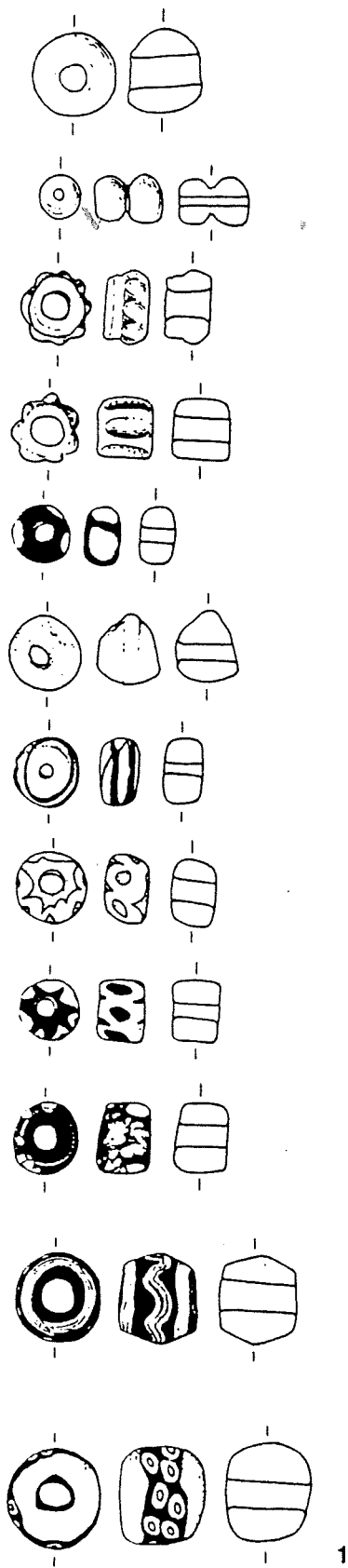


fig 254 Type 8.1.1.
1 : Wetsinge; 2 : Wierum.

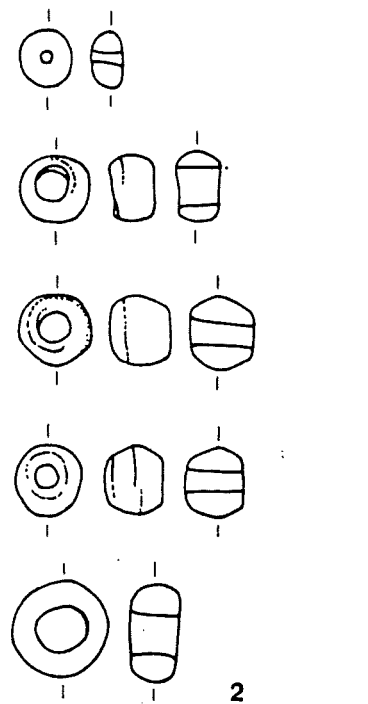
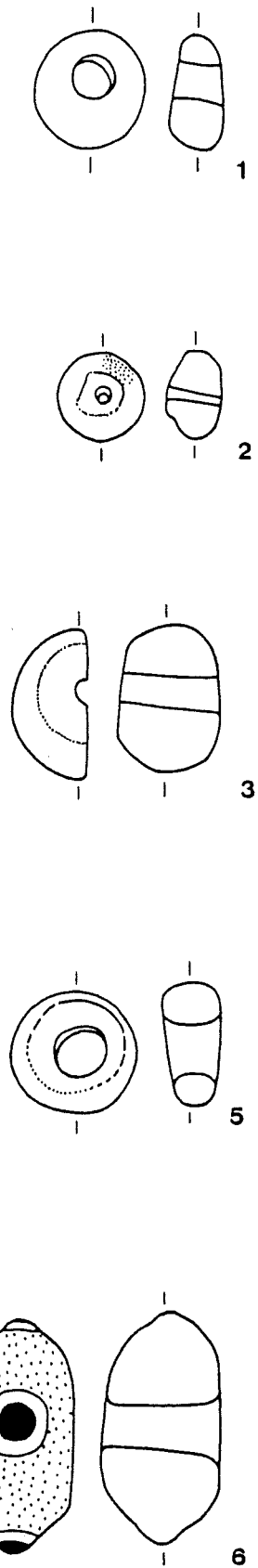


fig 255 Type 8.1.2.1.
1 : Aalsum; 2, 3 : Dorkwerd; 4, 5, 6 : Feerwerd-Z.



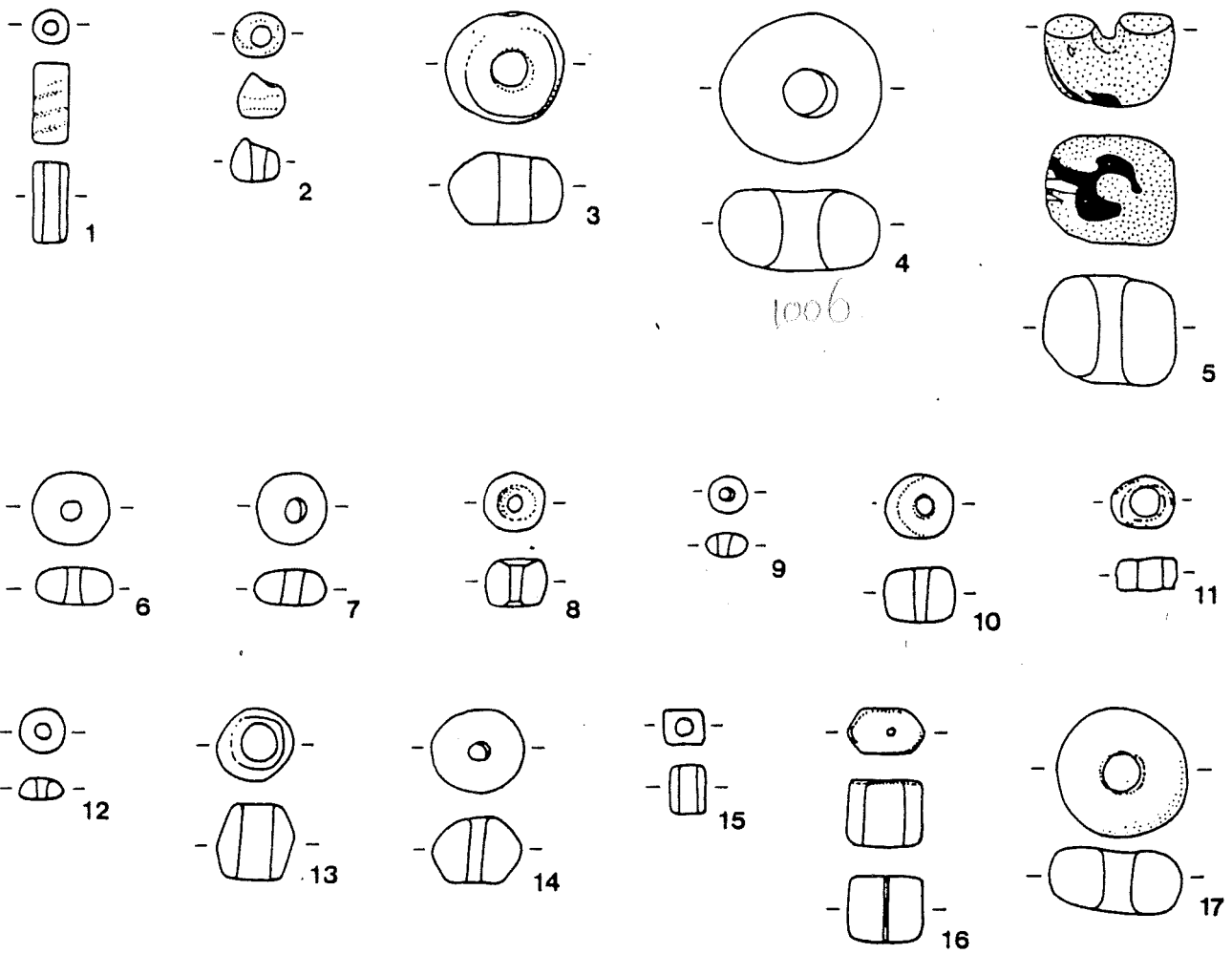


fig 256 Type 8.1.2.2.
 1, 2, 6 : Brillerij; 3 : Aalsum; 4, 9, 10, 11, 12, 16 : Ezinge; 5, 7 : Feerwerd-Z.; 8, 15 : Joeswerd; 13 : Wierum;
 14 : Garnwerd; 17 : Wetsinge.

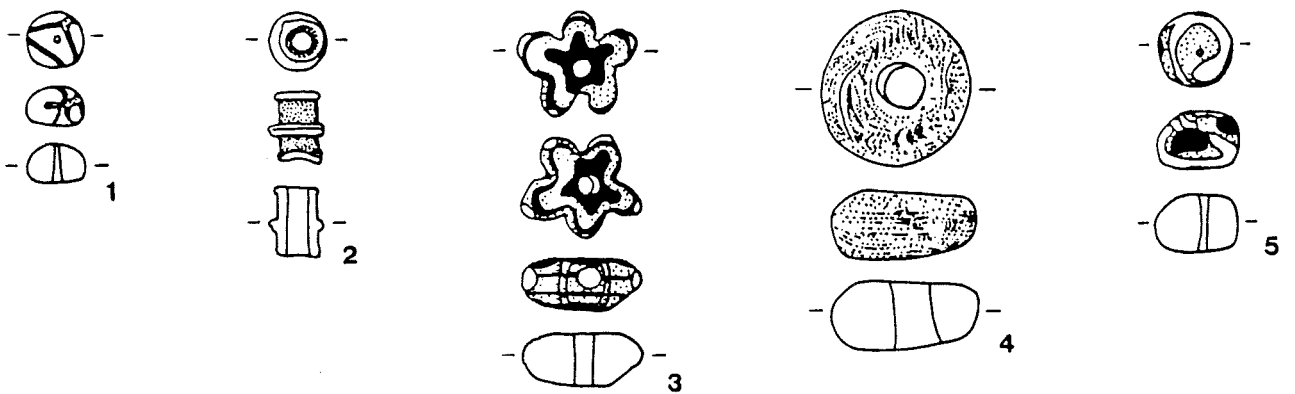


fig 257 Type 8.1.2.3.
 1 : Brillerij; 2, 3 : Dorkwerd; 4 : Aalsum; 5 : Feerwerd-Z.

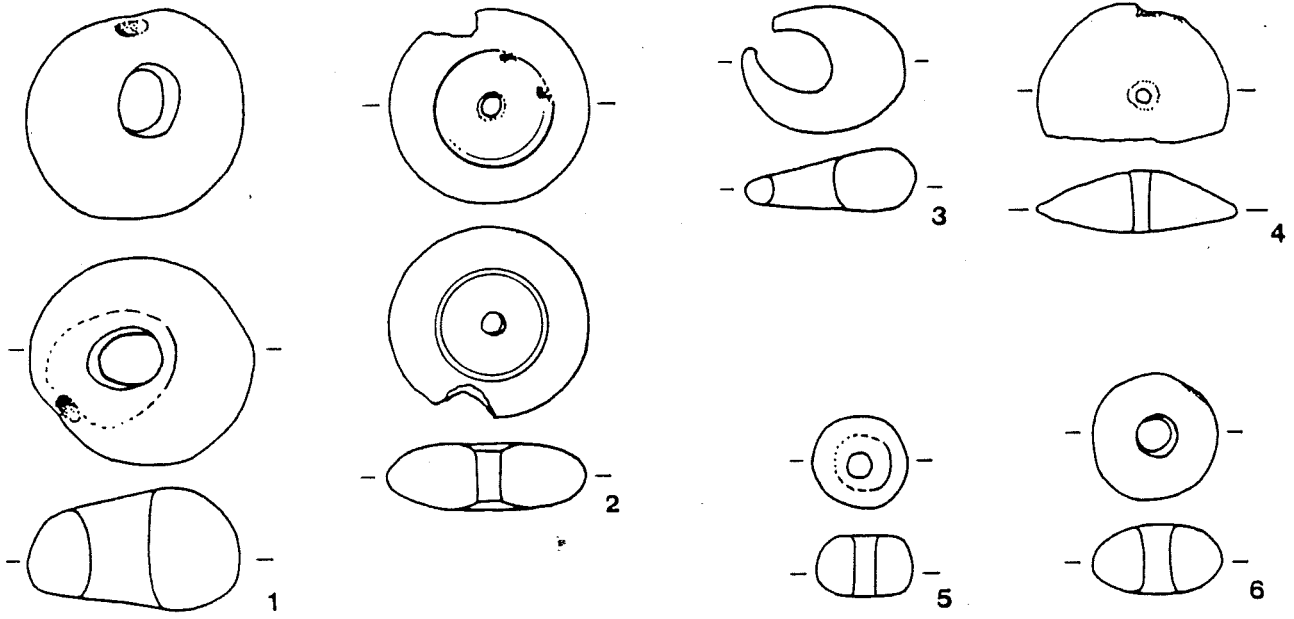


fig 258 Type 8.1.2.5.
1, 2, 3, 4, 5 : Garnwerd; 6 : Dorkwerd.

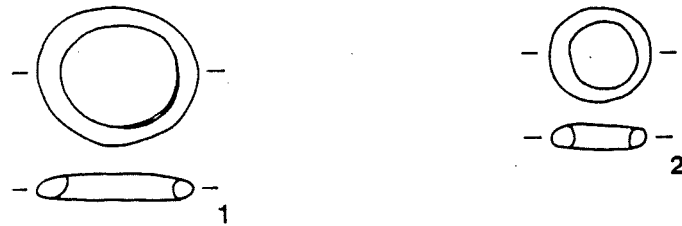


fig 259 Type 8.1.2.4.
1 : Aalsum; 2 : Dorkwerd.

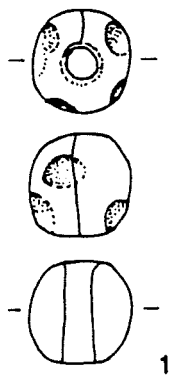


fig 260 Type XXIII.
1 : Joeswerd.

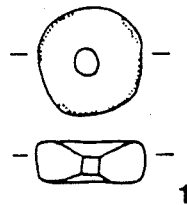


fig 261 Type 6.1.14.12.
1 : Joeswerd.

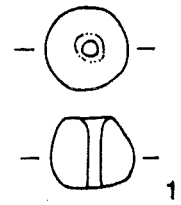


fig 262 Type 6.3.9.10.
1 : Joeswerd. 1 : 1

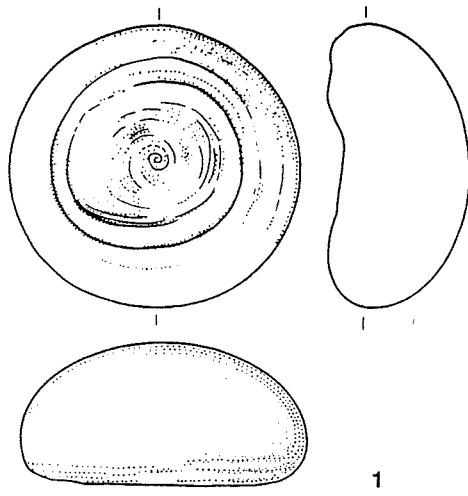


fig 263 Type 8.2.
1 : Dorkwerd.

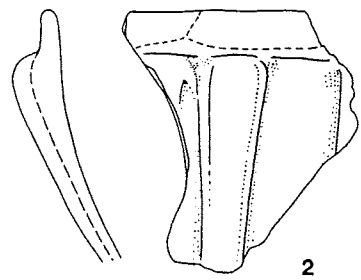
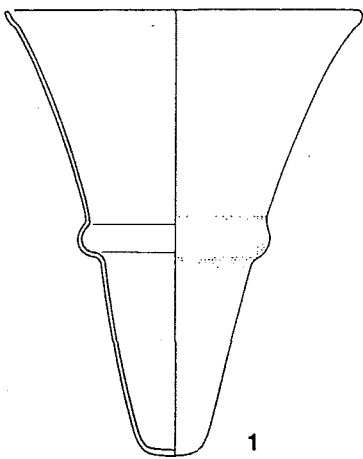
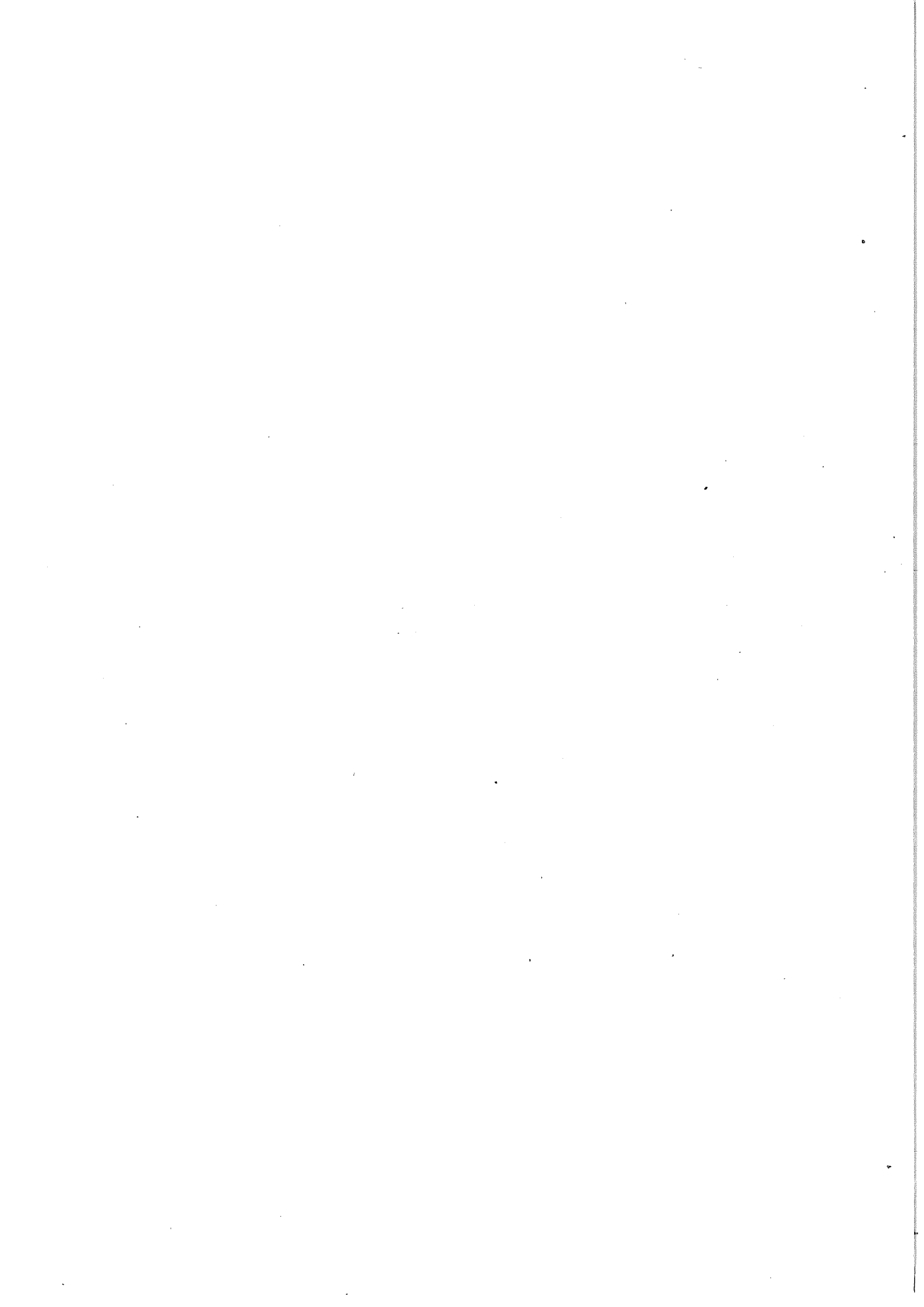




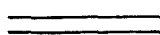
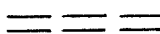





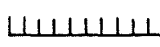


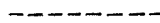
fig 264 Type 8.3.
1 : Antum; 2 : Oostum.

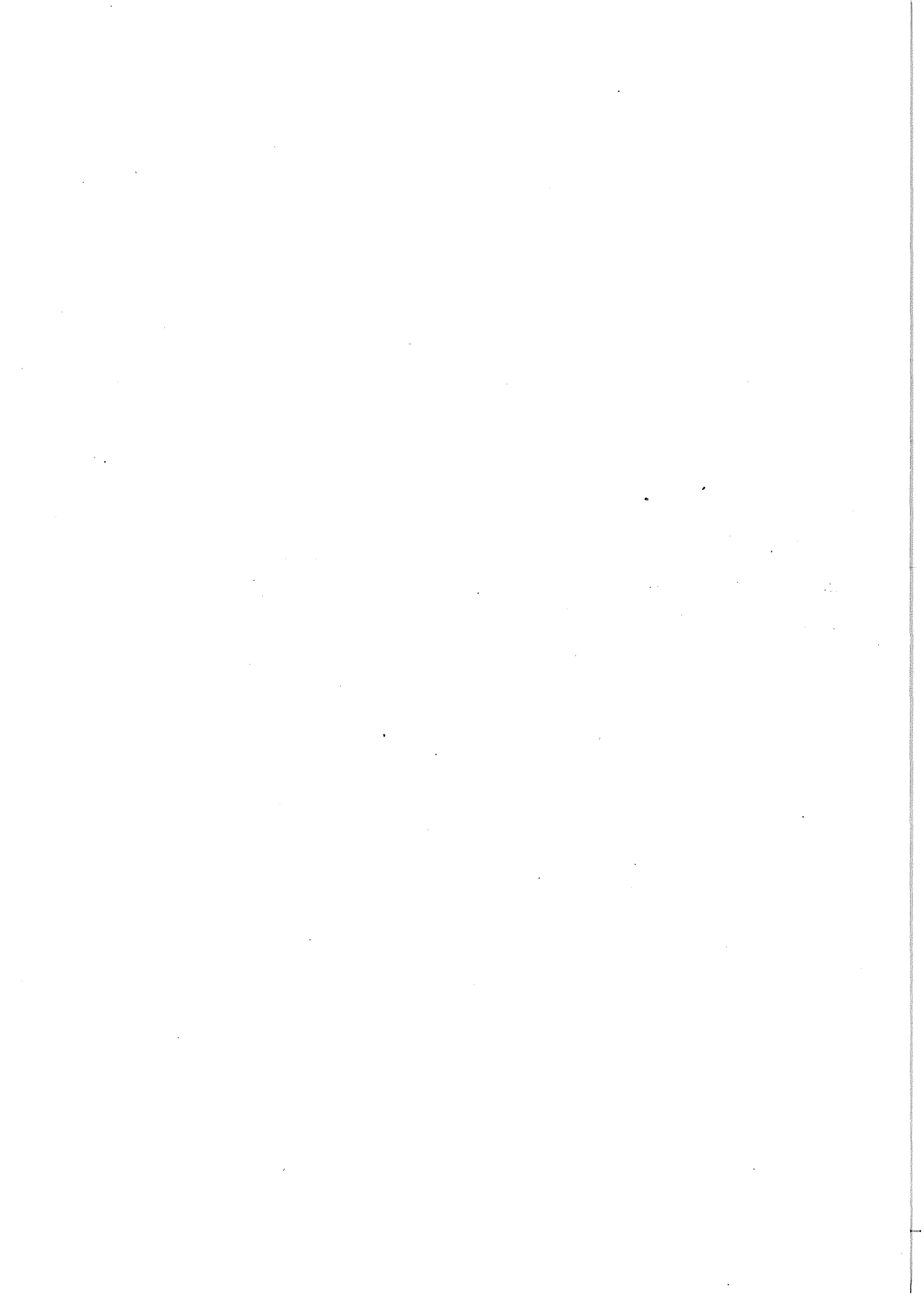
VIJFENTWINTIG EEUWEN
BEWONING IN HET TERPENLAND
TEN NOORDWESTEN VAN
GRONINGEN

DEEL II AFBEELDINGEN



LEGENDA behorende bij terpenkaarten 1:2500

	omtrek terpvoet
	omtrek terpvoet onzeker
	sloot of gracht
	gedempte sloot of gracht
	verharde weg
	onverharde weg / wagenrede
	afgegraven
	afgegraven deel, is later weer opgehoogd
	bebouwing
	taludrand
● 1, 2 enz.	boorpunten
0.30 ⁻ , 4.07	hoogtepunten
	1.00
	0.50
	0.25
	} hoogtelijnen



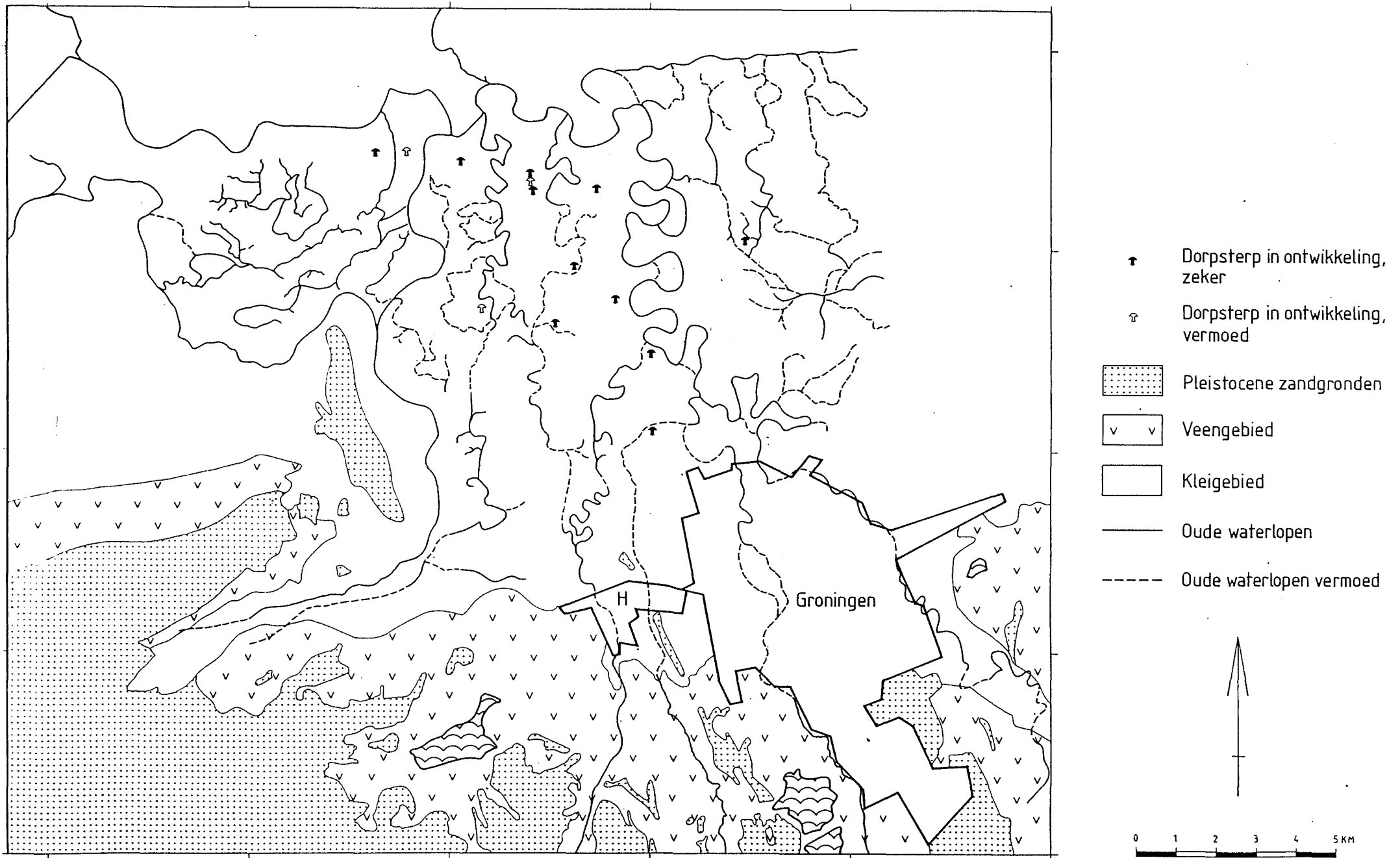
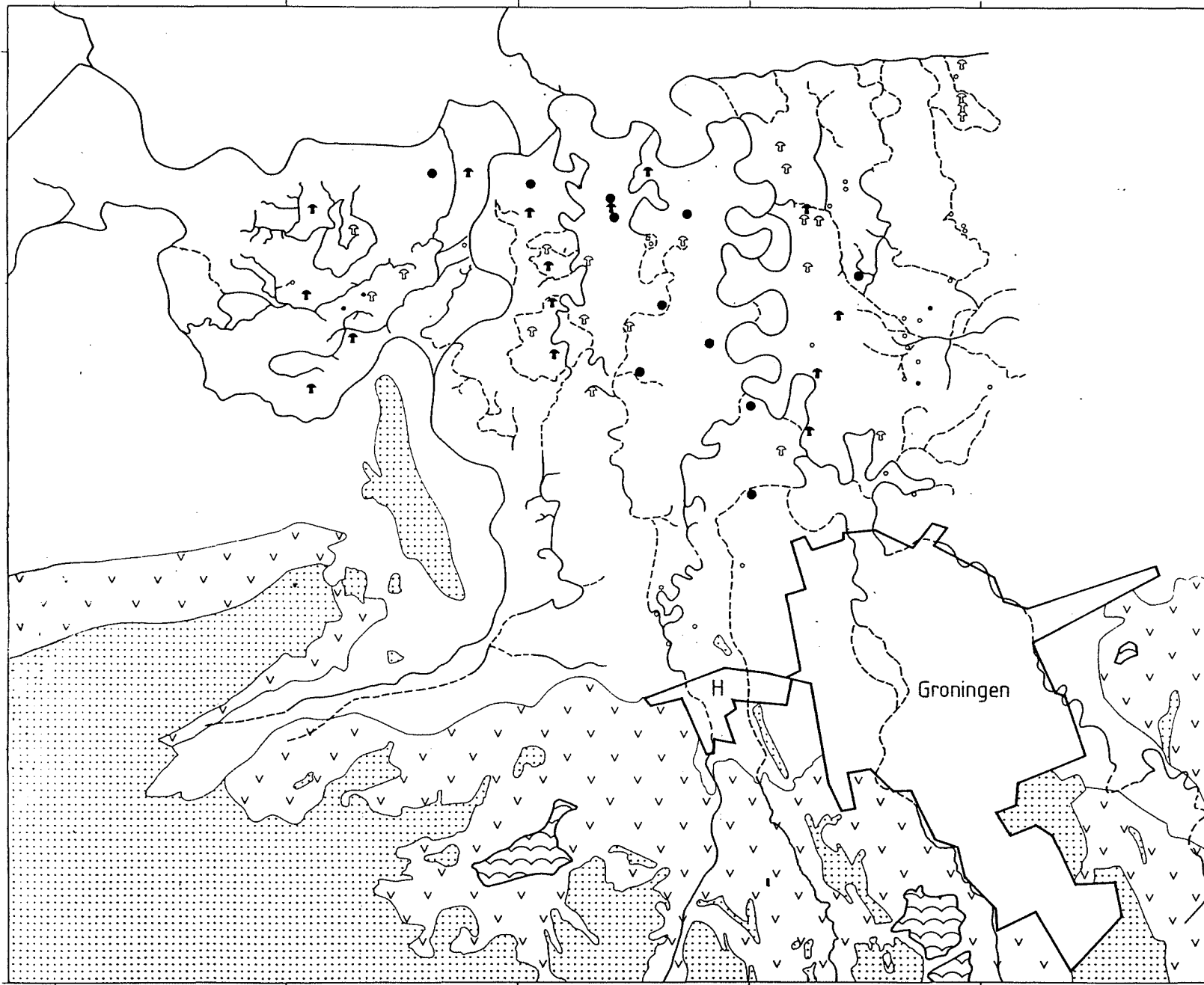


fig 265 Verspreiding van de bewoning in de periode van 600-250 vC.



- ↑ Dorpsterp in ontwikkeling, zeker
- ⊔ Dorpsterp in ontwikkeling, vermoed
- Dorpsterp, zeker bewoond
- Huissterp, zeker bewoond
- Huissterp, vermoedelijk bewoond
- ◻ Boerderijplaats, vermoedelijk bewoond

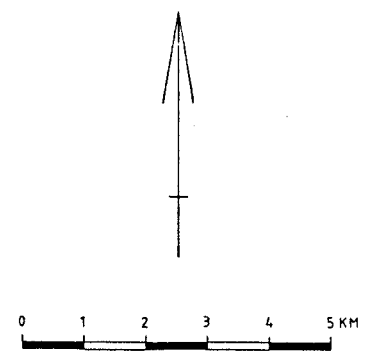
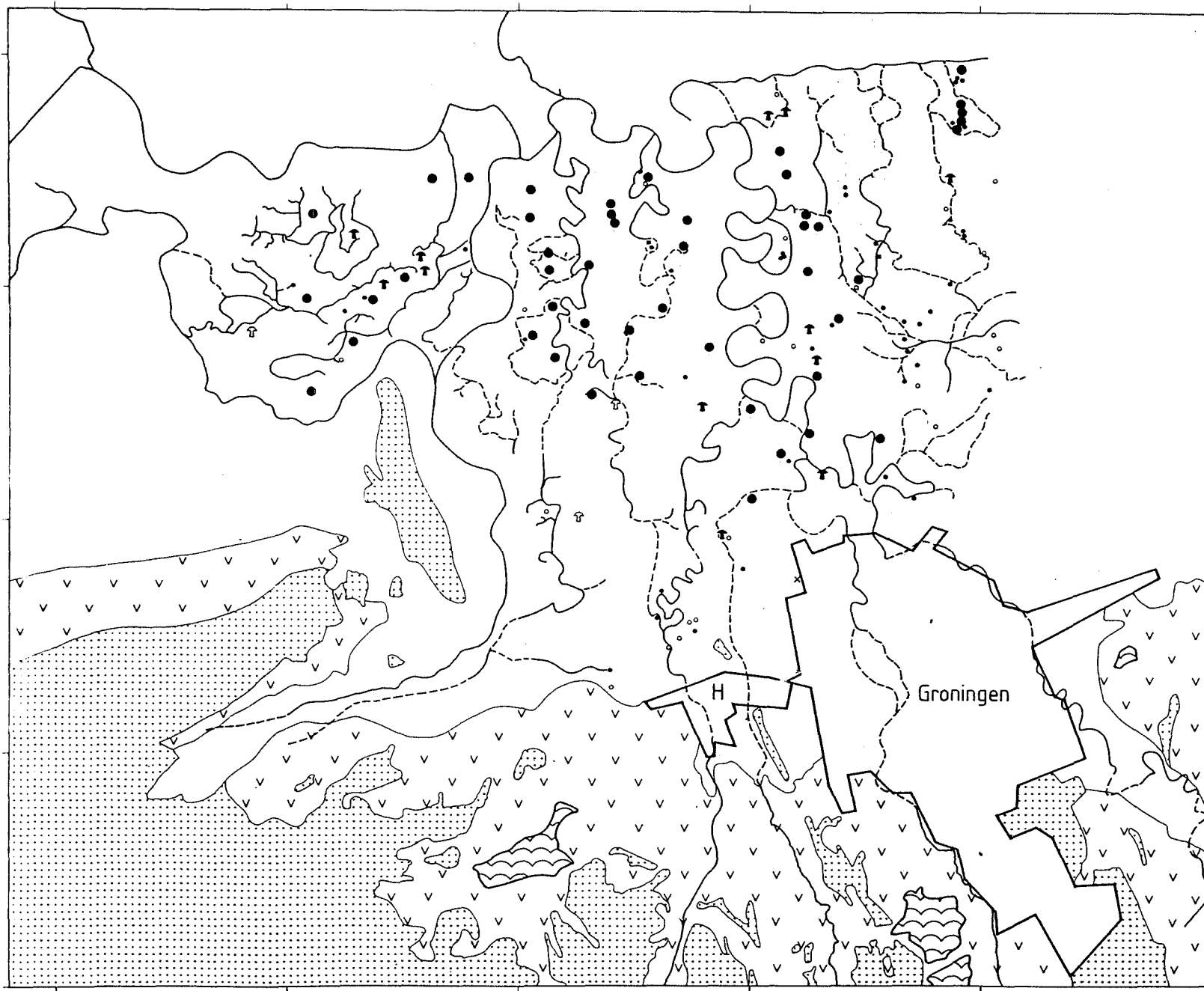


fig 266 Verspreiding van de bewoning in de periode van 250-50 vC.



- † Dorpsterp in ontwikkeling, zeker
- ‡ Dorpsterp in ontwikkeling, vermoed
- Dorpsterp, zeker bewoond
- Huisterp, zeker bewoond
- Huisterp, vermoedelijk bewoond
- Boerderijplaats, zeker bewoond
- Boerderijplaats, vermoedelijk bewoond
- × Overslibde vlaknederzetting

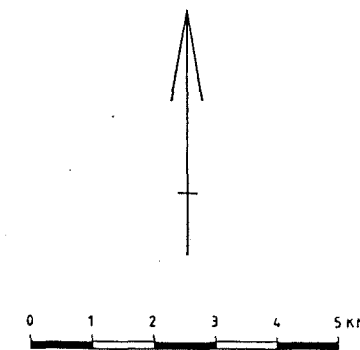
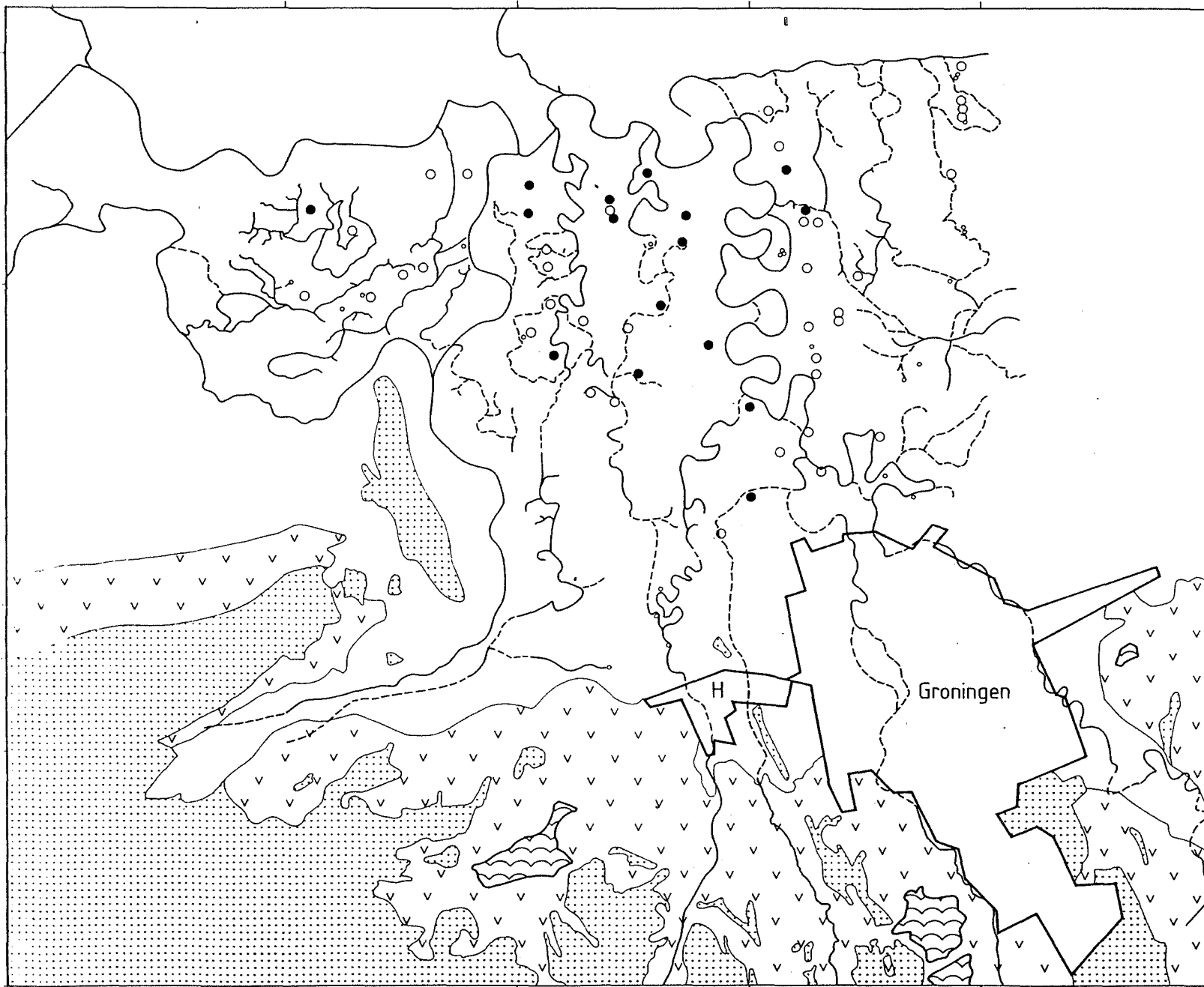


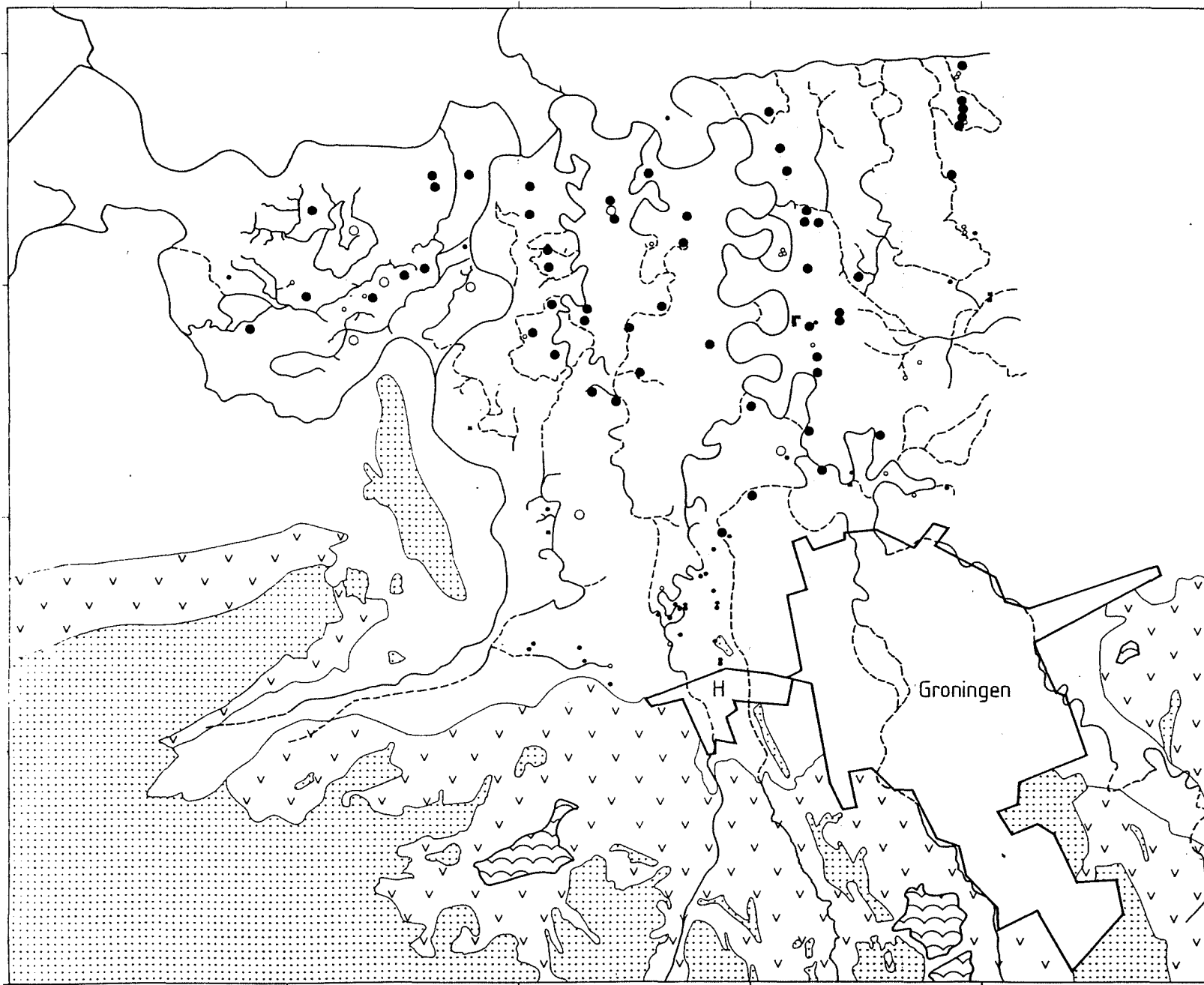
fig 267 Verspreiding van de bewoning in de periode van 50 vC-300 nC.



- Dorpsterp, zeker bewoond
- Dorpsterp, vermoedelijk bewoond
- Huisterp, vermoedelijk bewoond



fig 268 Verspreiding van de bewoning in de periode van 300-750 n.C.



- Dorpsterp, zeker bewoond
- Dorpsterp, vermoedelijk bewoond
- Huisterp, zeker bewoond
- Huisterp, vermoedelijk bewoond
- Boerderijplaats, zeker bewoond

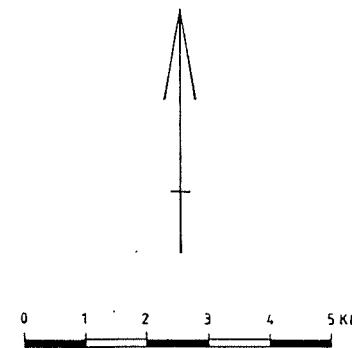
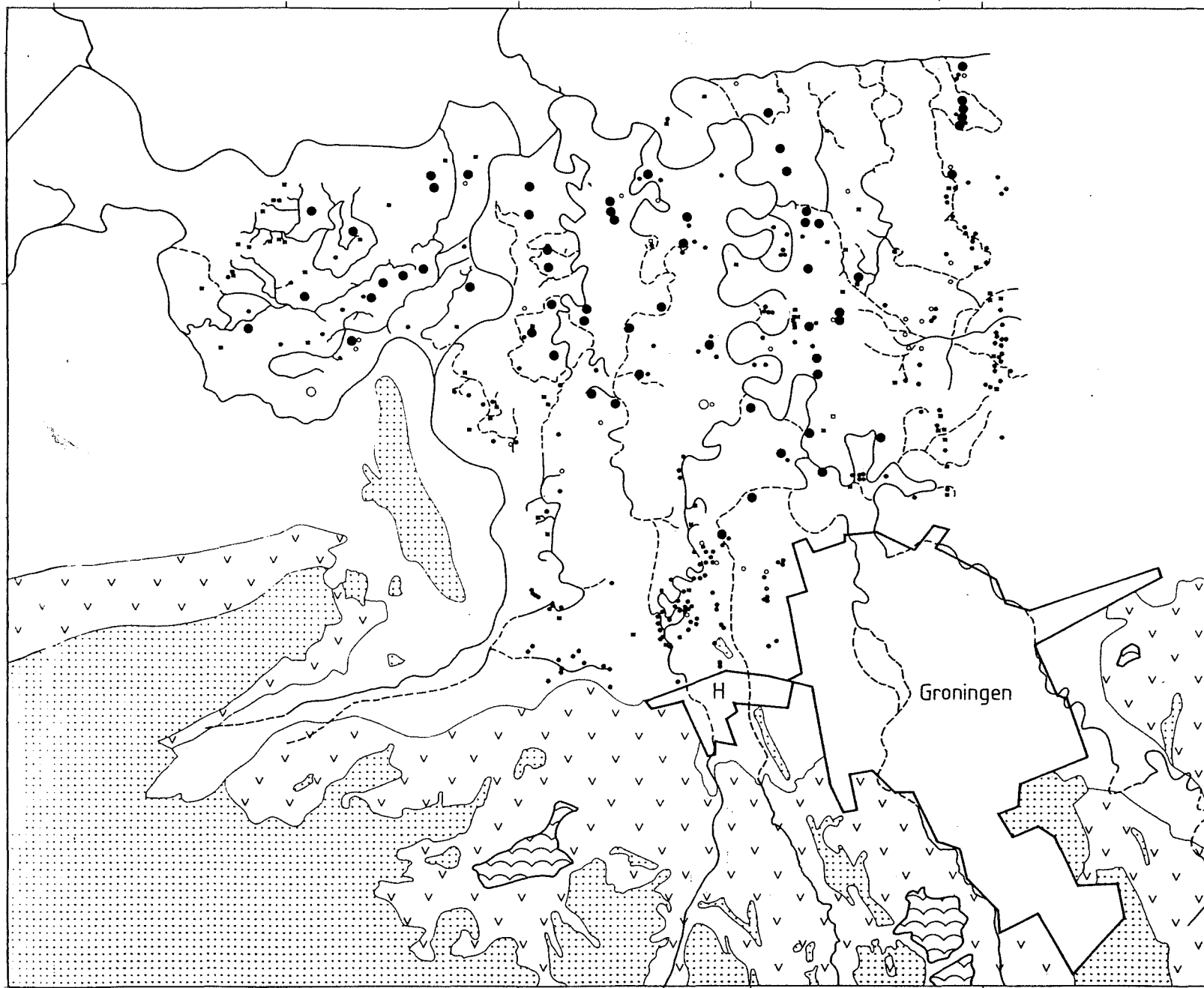


fig 269 Verspreiding van de bewoning in de periode van 750-1000 n.C.



- Dorpsterp, zeker bewoond
- Dorpsterp, vermoedelijk bewoond
- Huisterp, zeker bewoond
- Huisterp, vermoedelijk bewoond
- Boerderijplaats, zeker bewoond
- ◻ Boerderijplaats, vermoedelijk bewoond

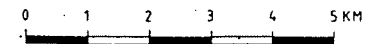


fig 270 Verspreiding van de bewoning in de periode van 1000-1300 n.C.

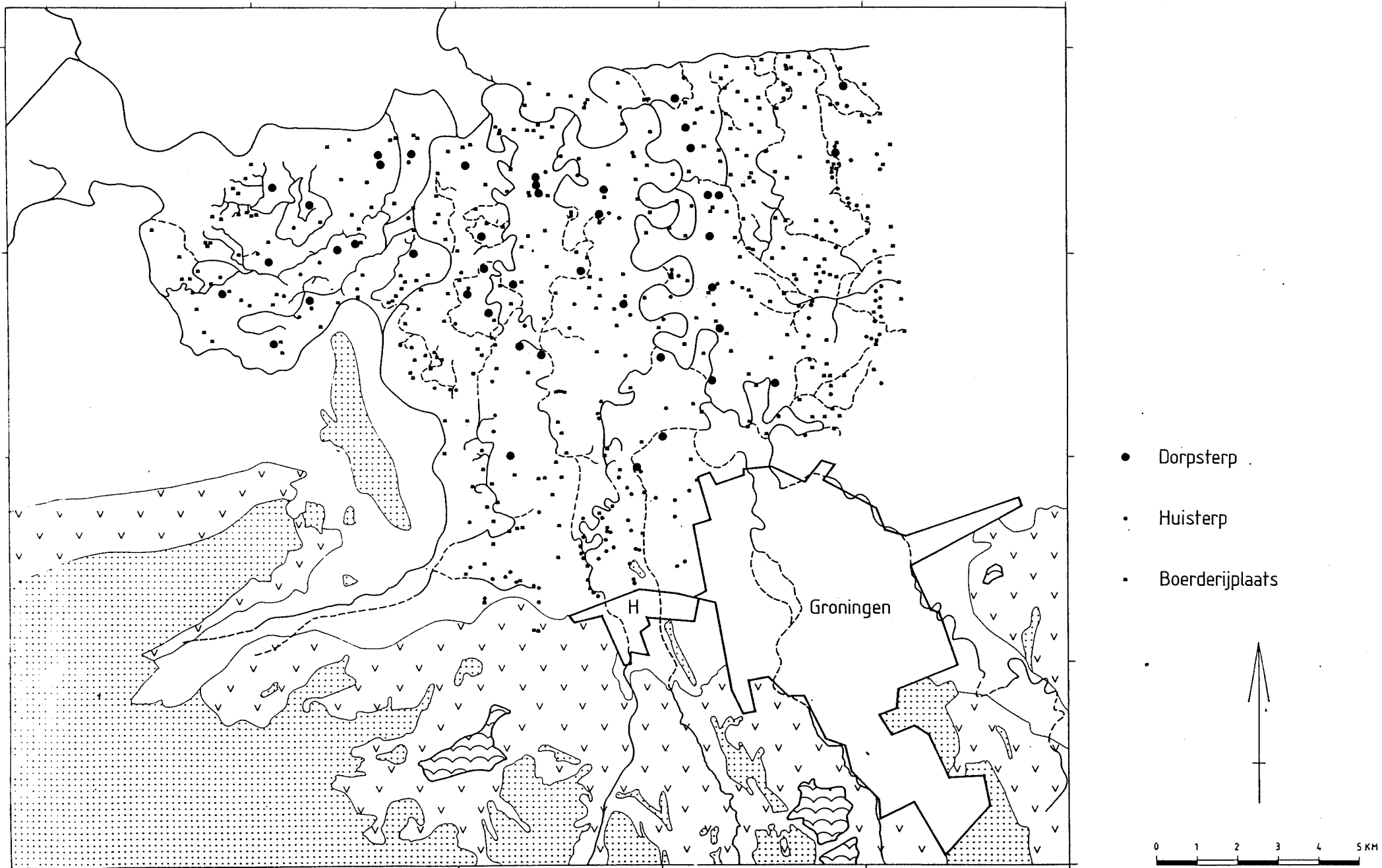
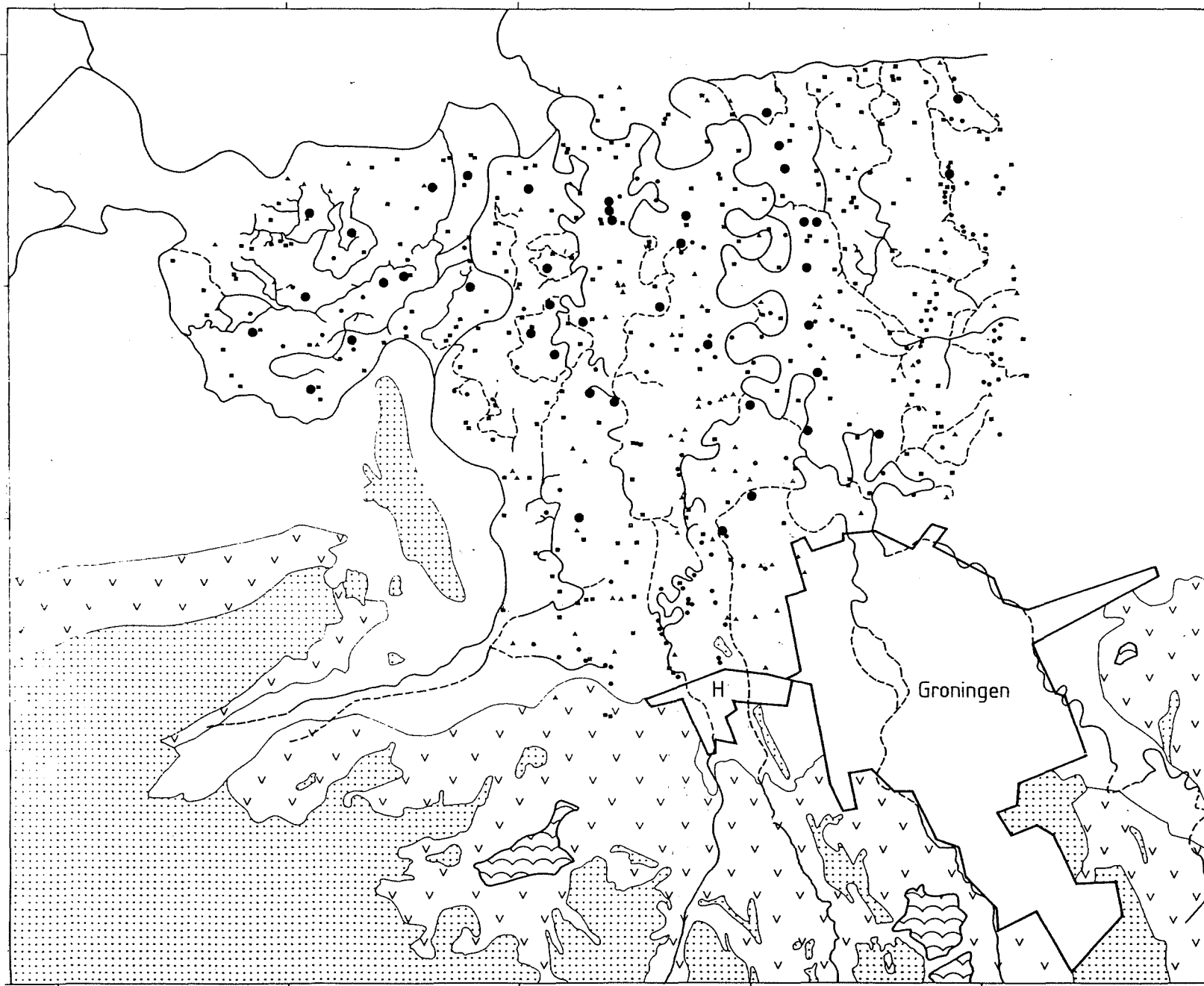


fig 271 Verspreiding van de bewoning omstreeks 1830.



- Dorpsterp
- Huisterp
- ▲ Boerderijplaats
- ▼ Recente boerderij



fig 272 Verspreiding van de bewoning in 1975.

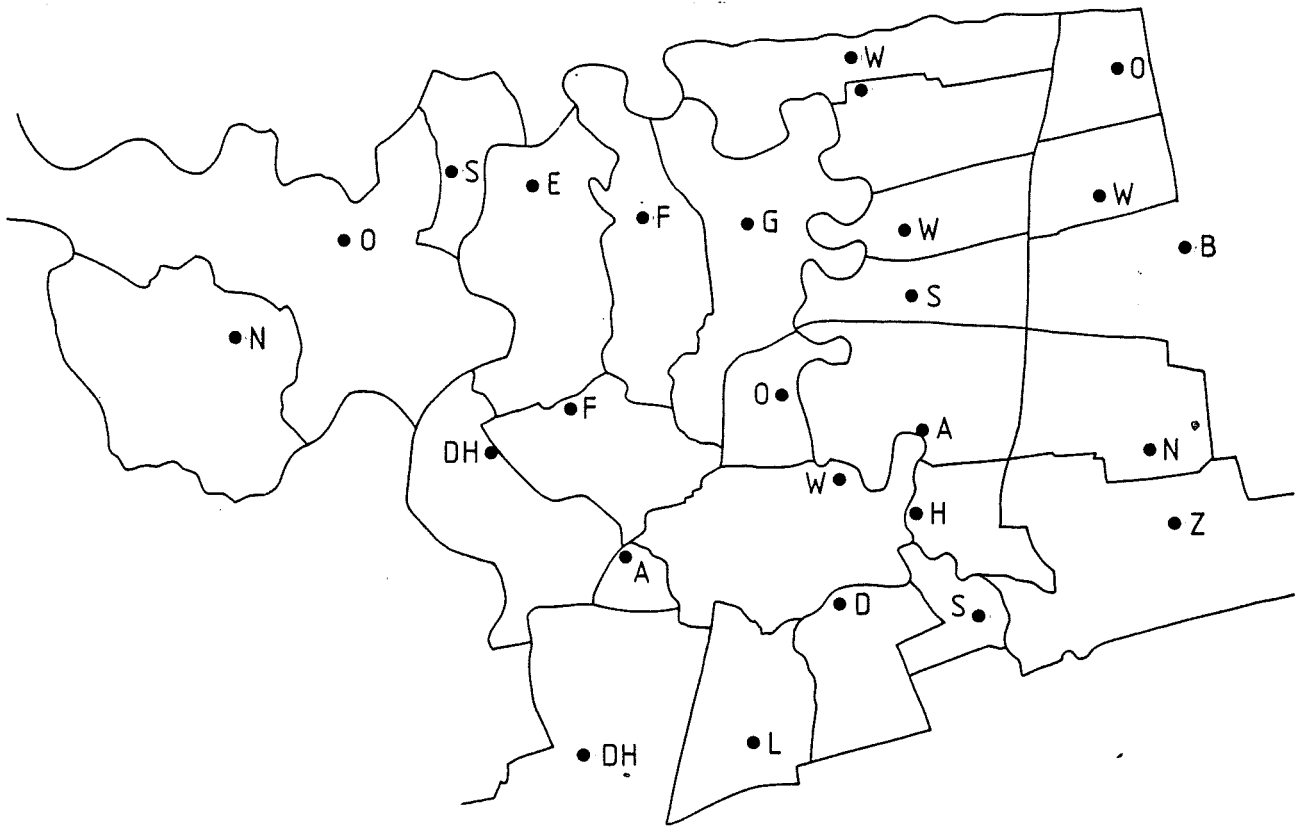


fig 273 Begrenzing van de Middeleeuwse kerspelen.

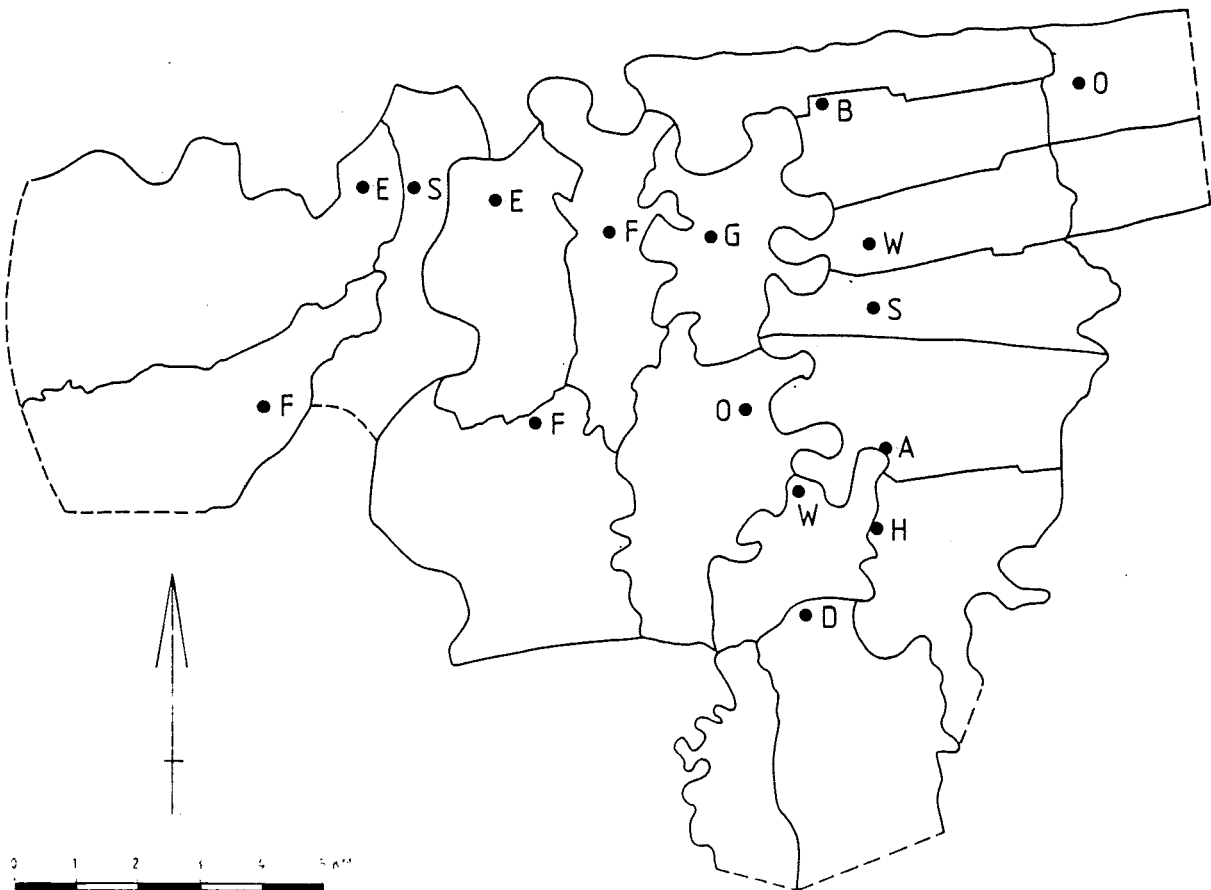
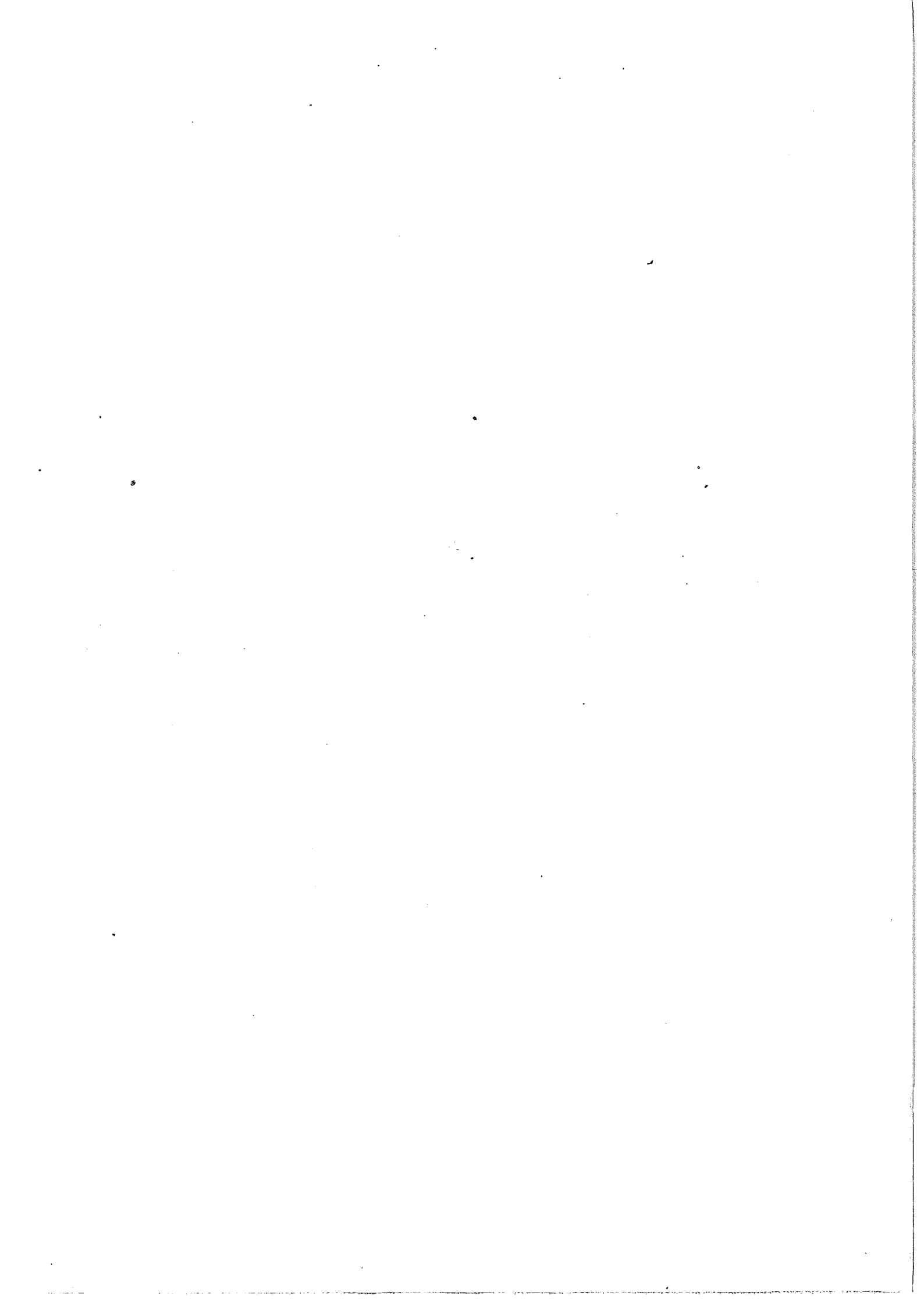
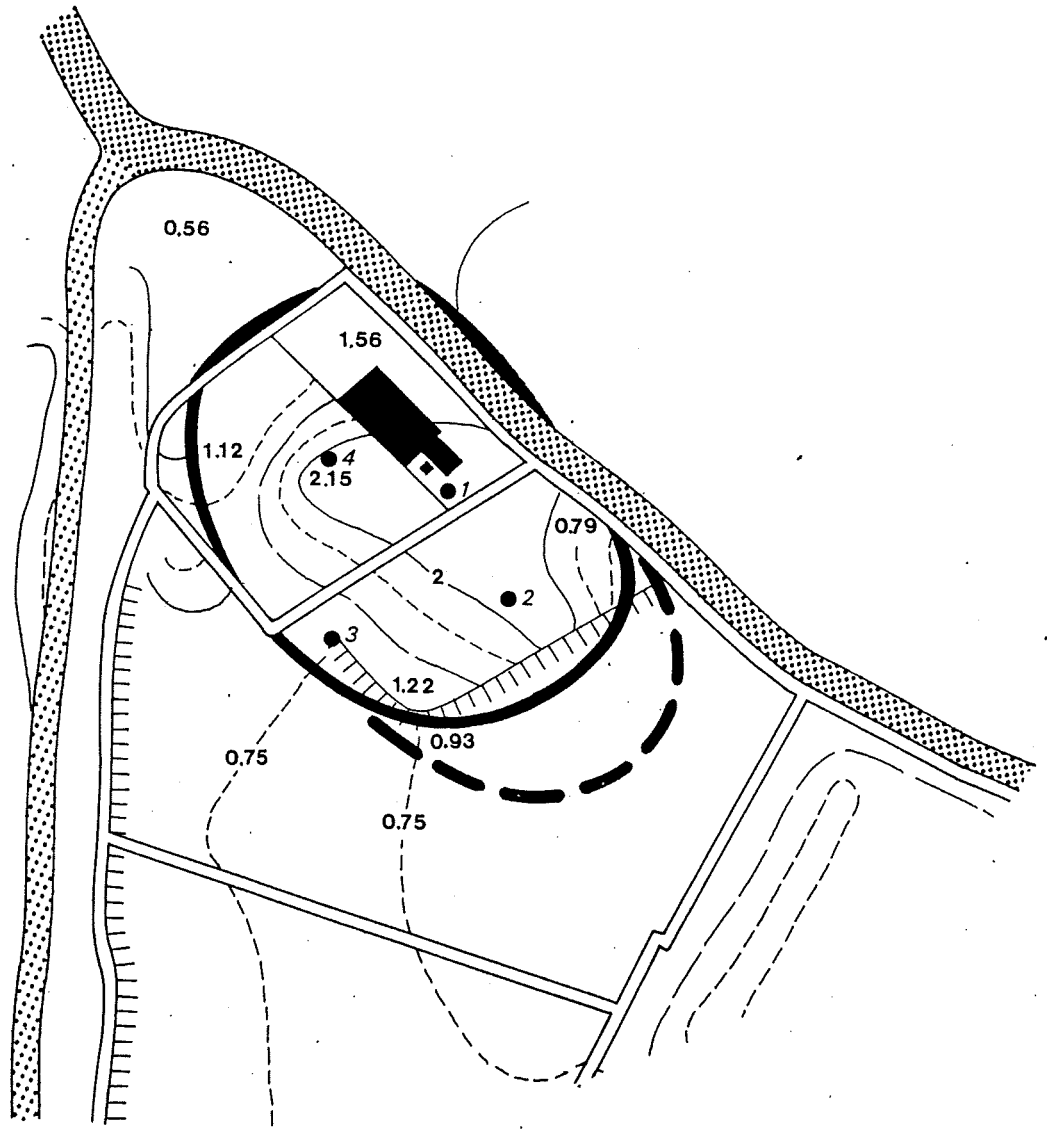
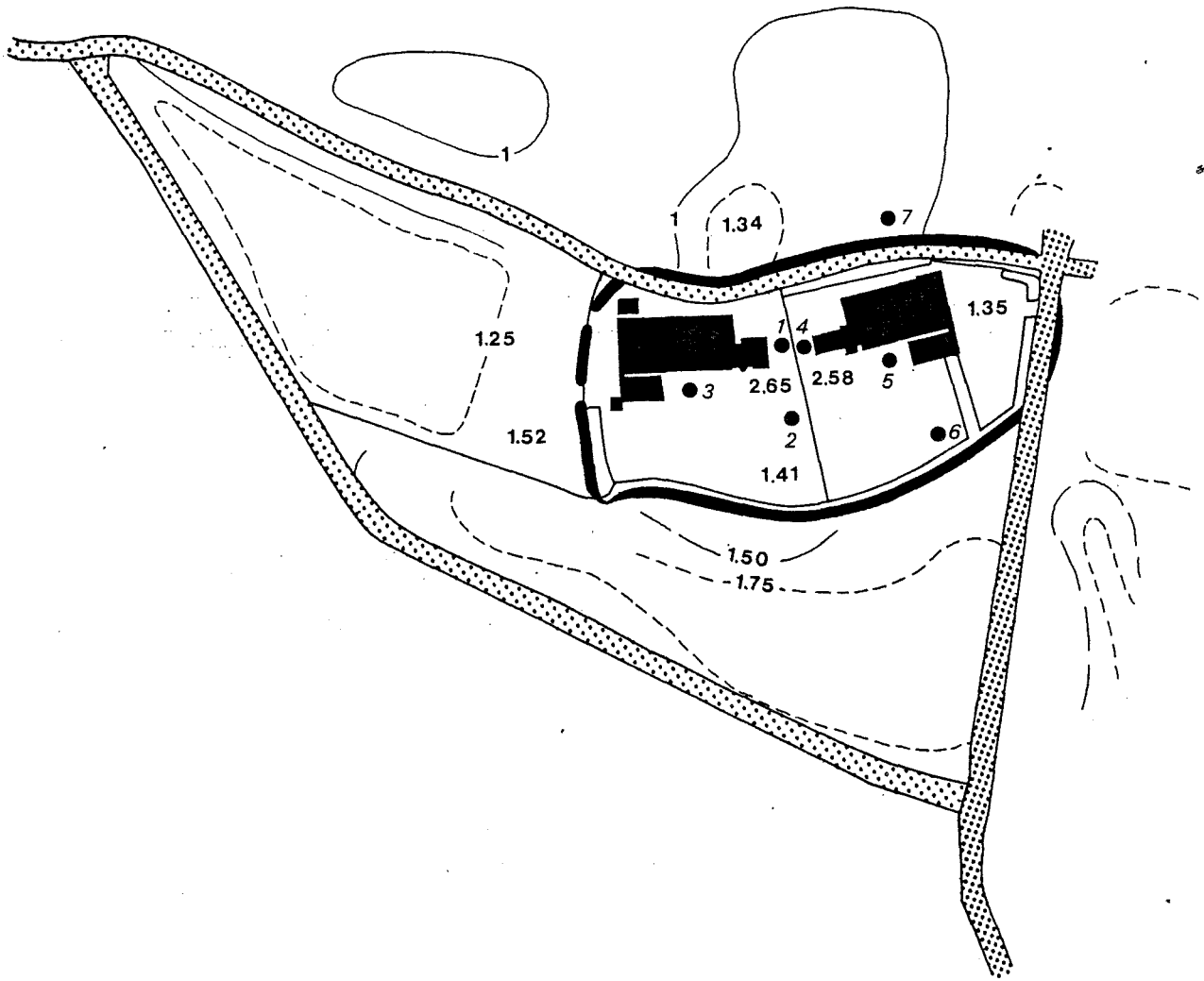
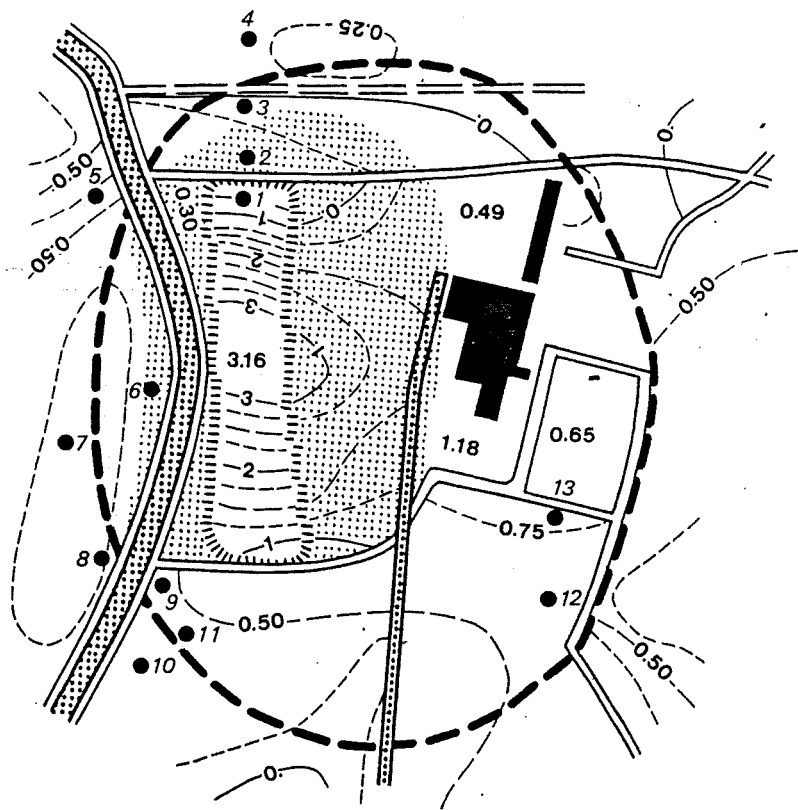


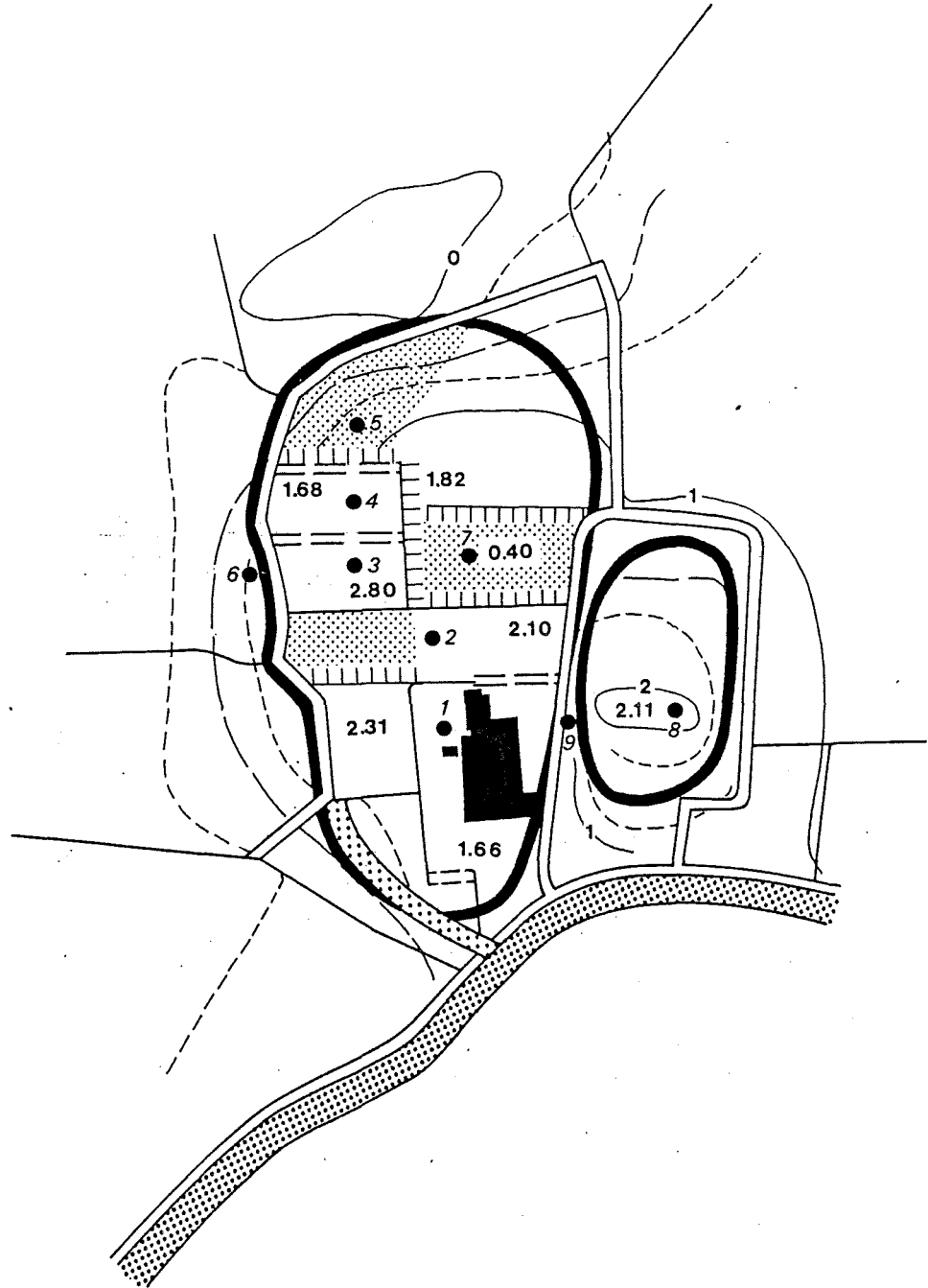
fig 274 Territoriale eenheden of dorpsgebieden in de Romeinse tijd.

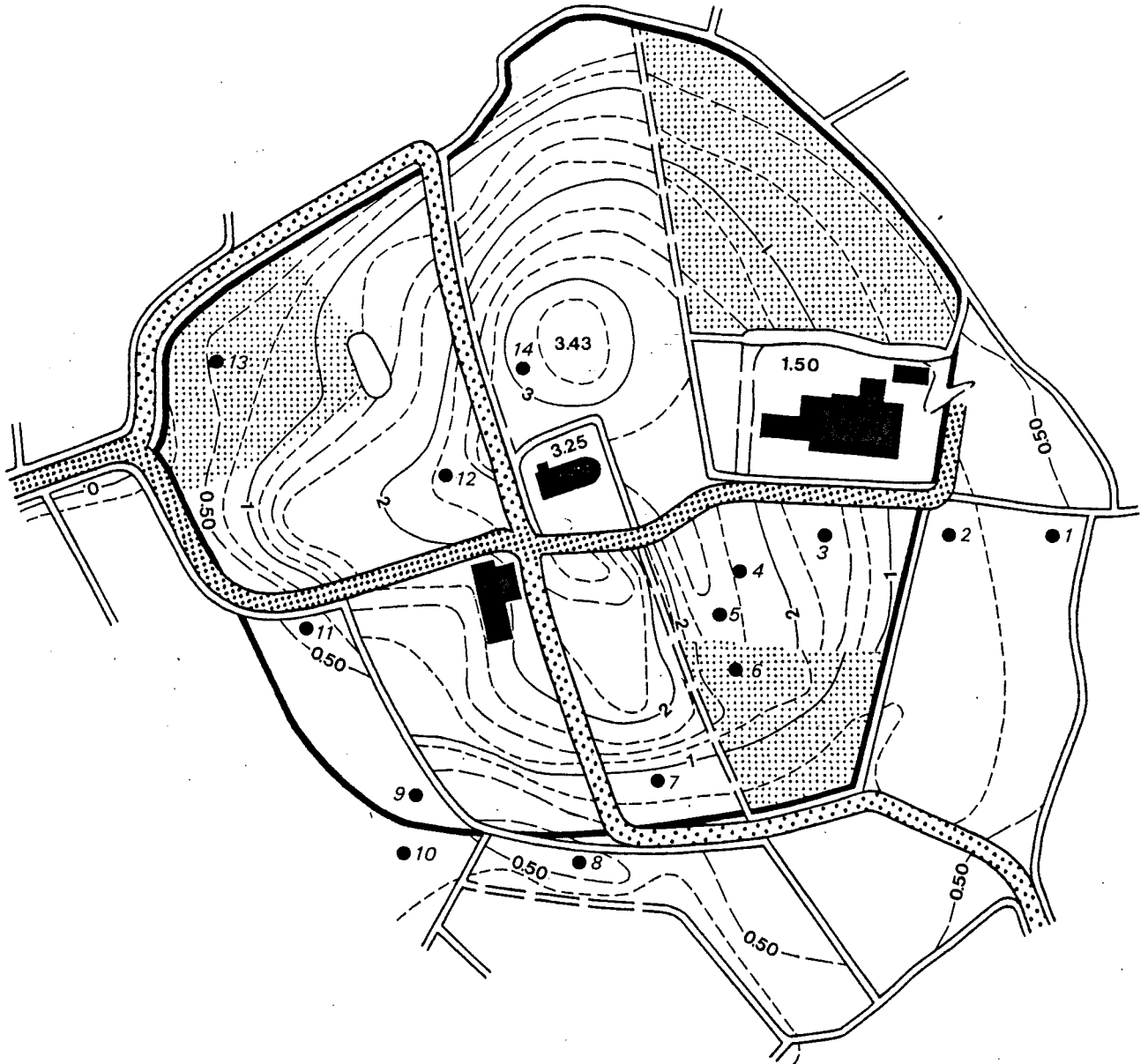


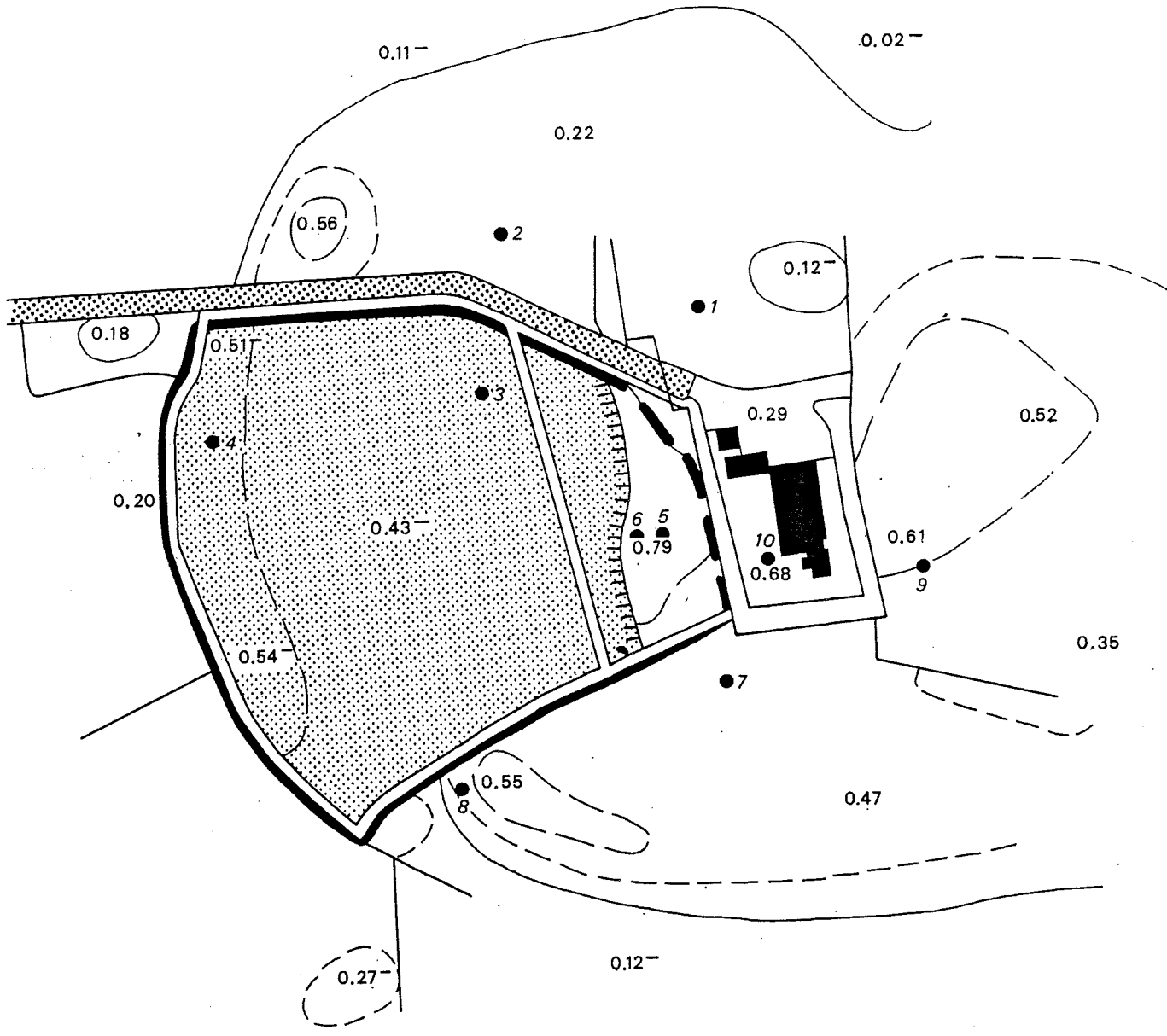


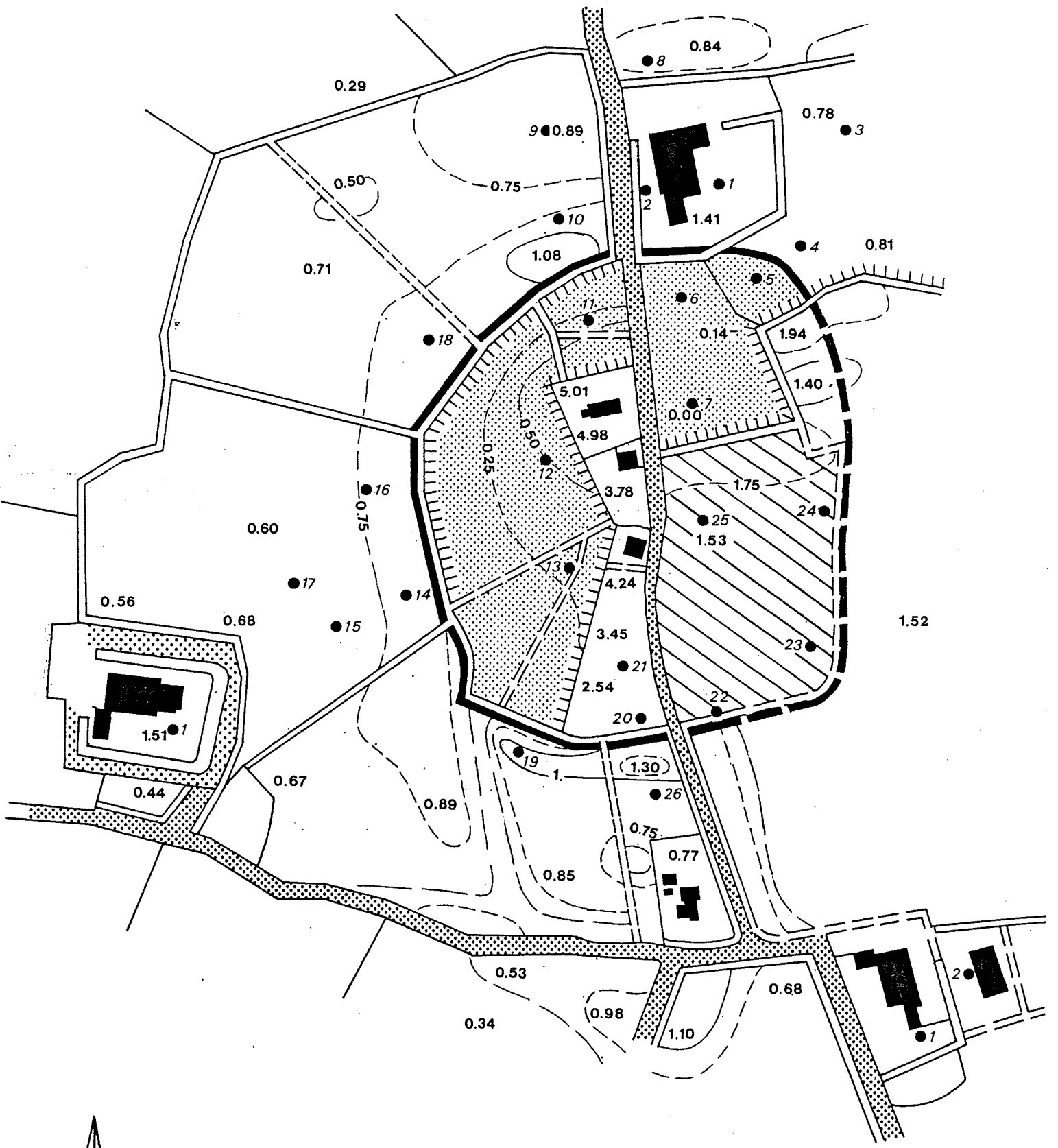


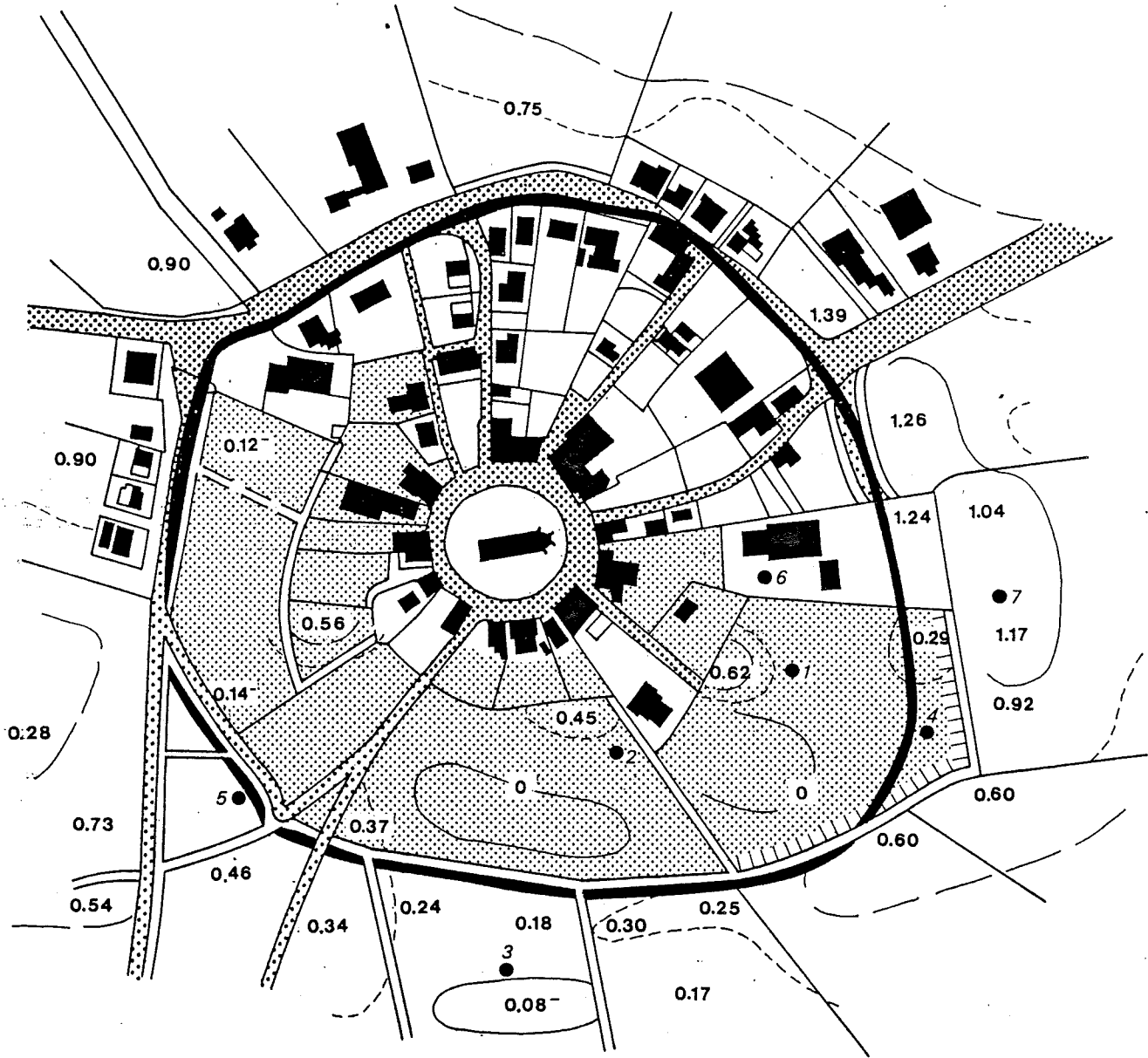


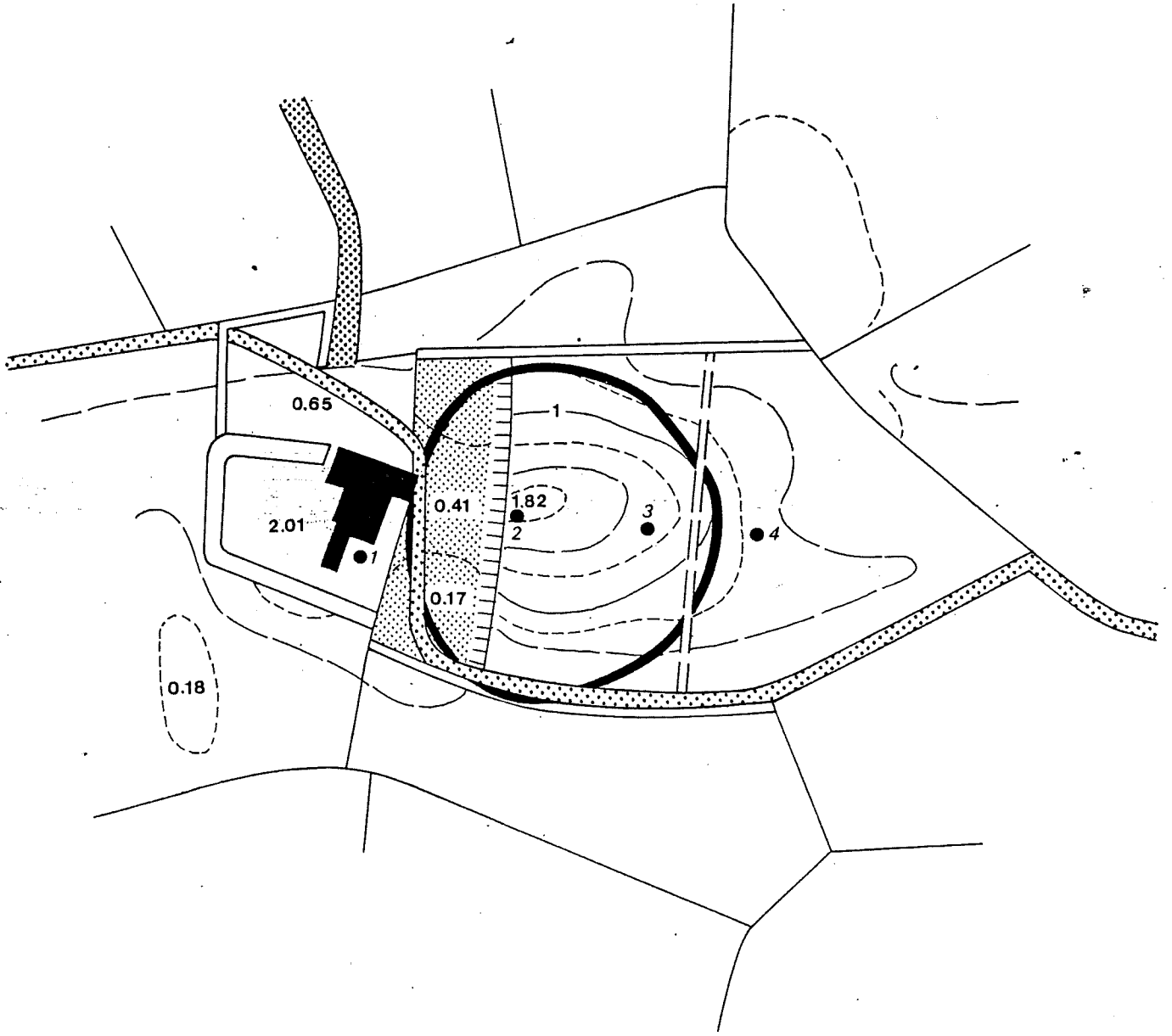


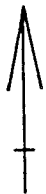
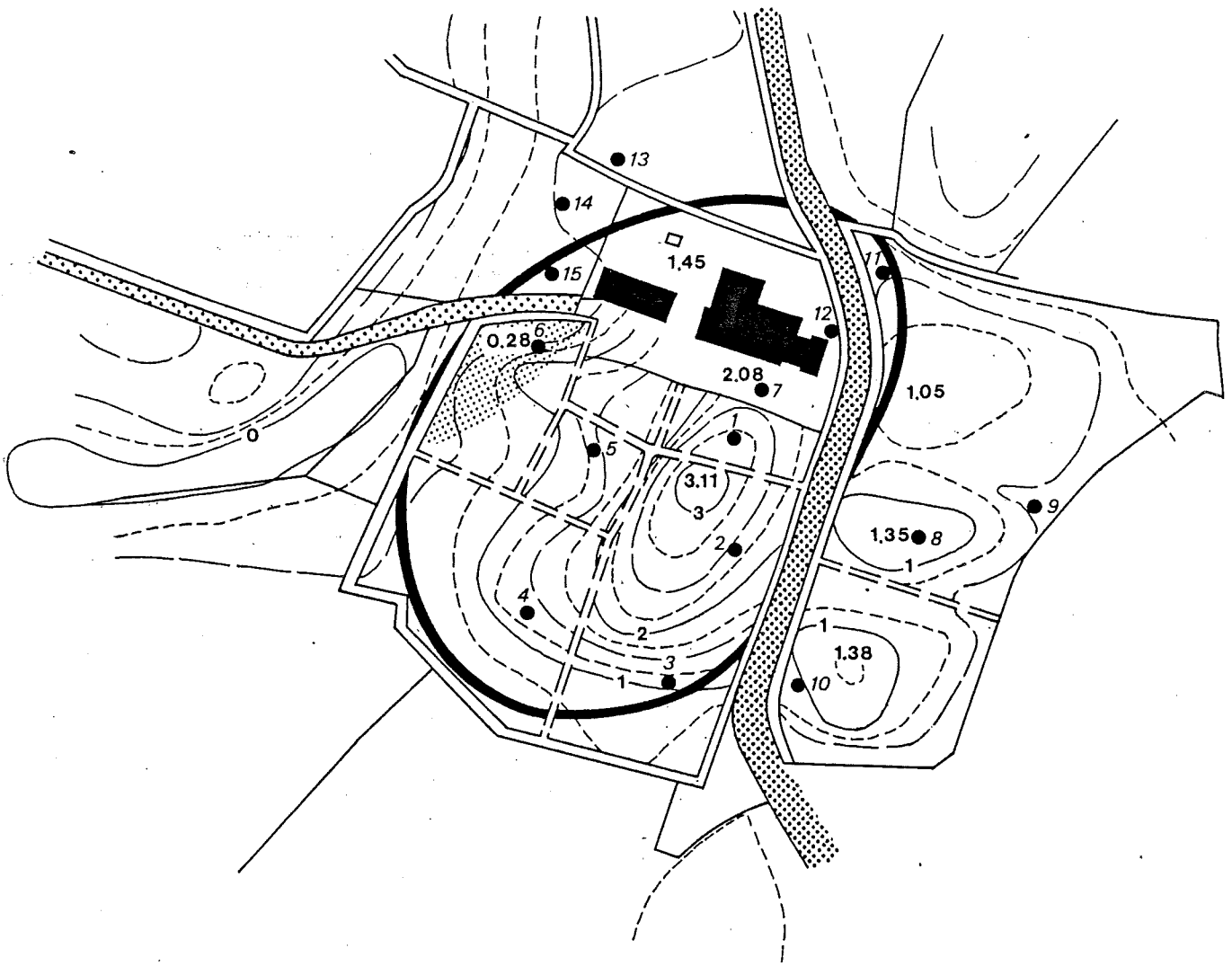


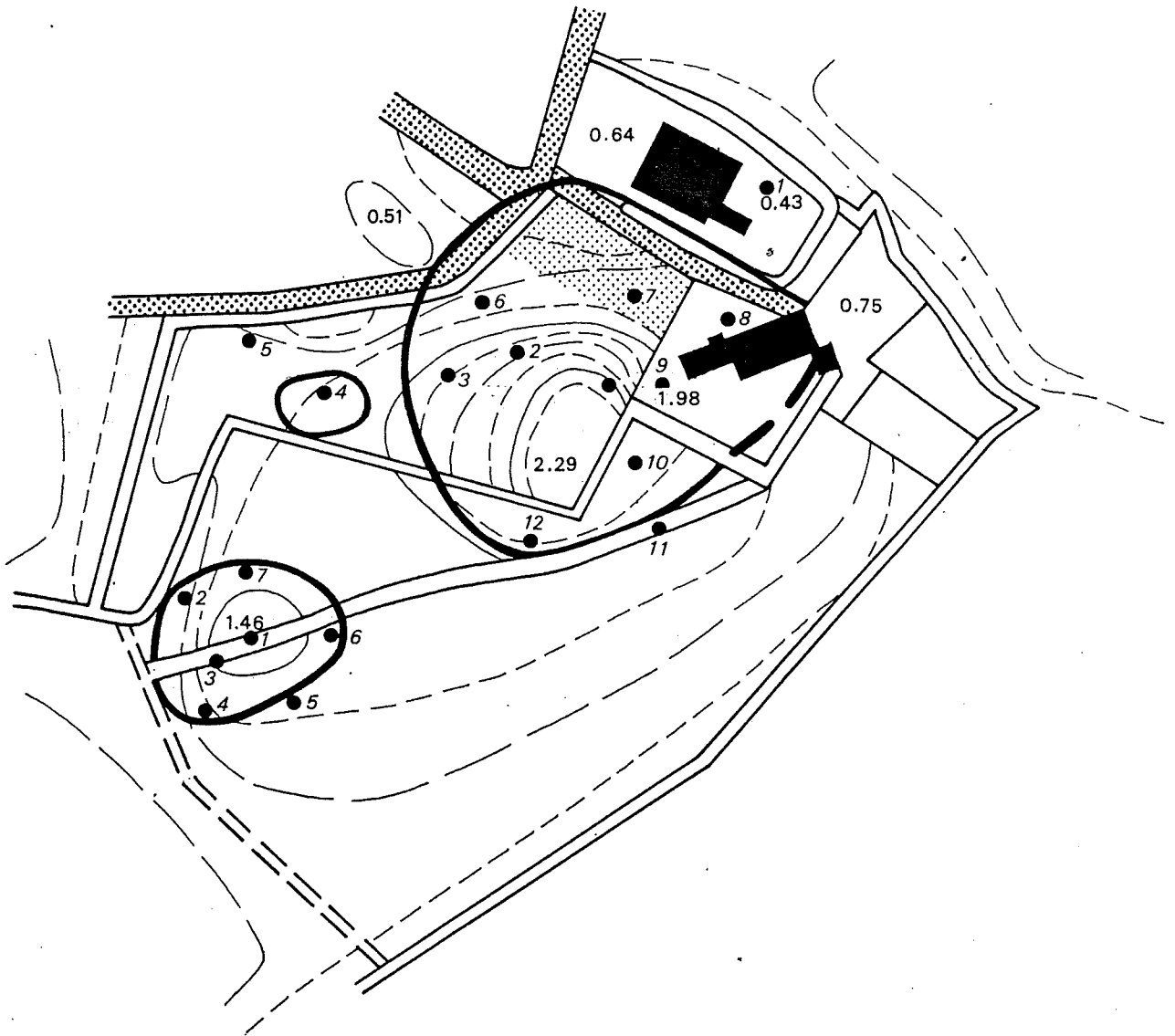


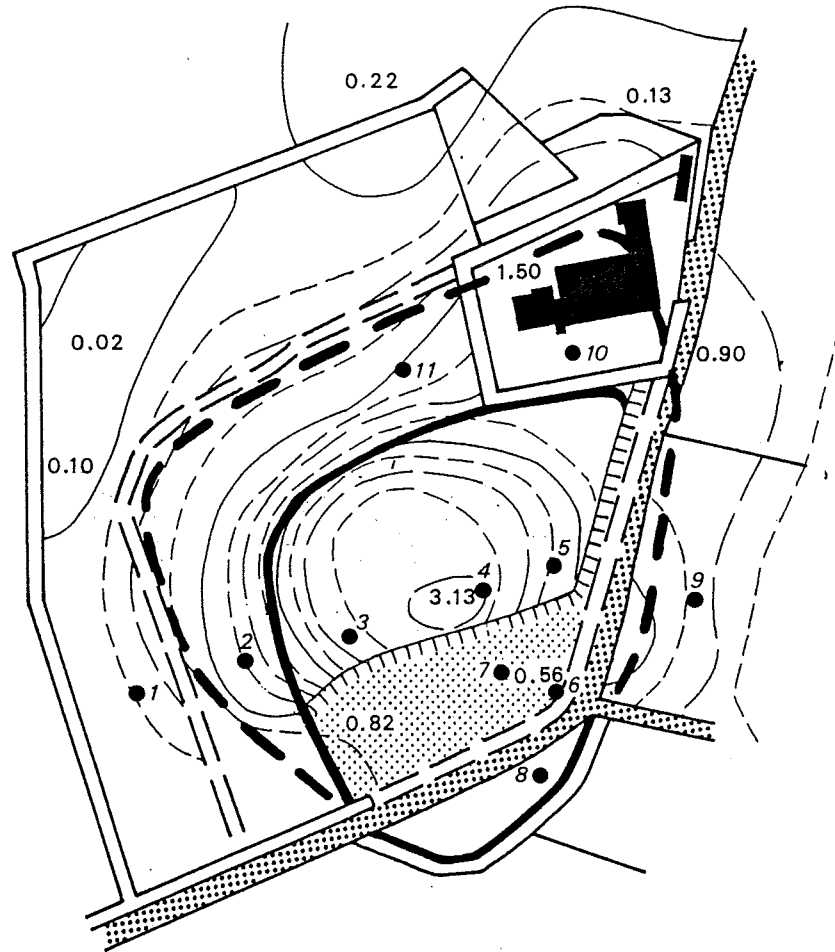


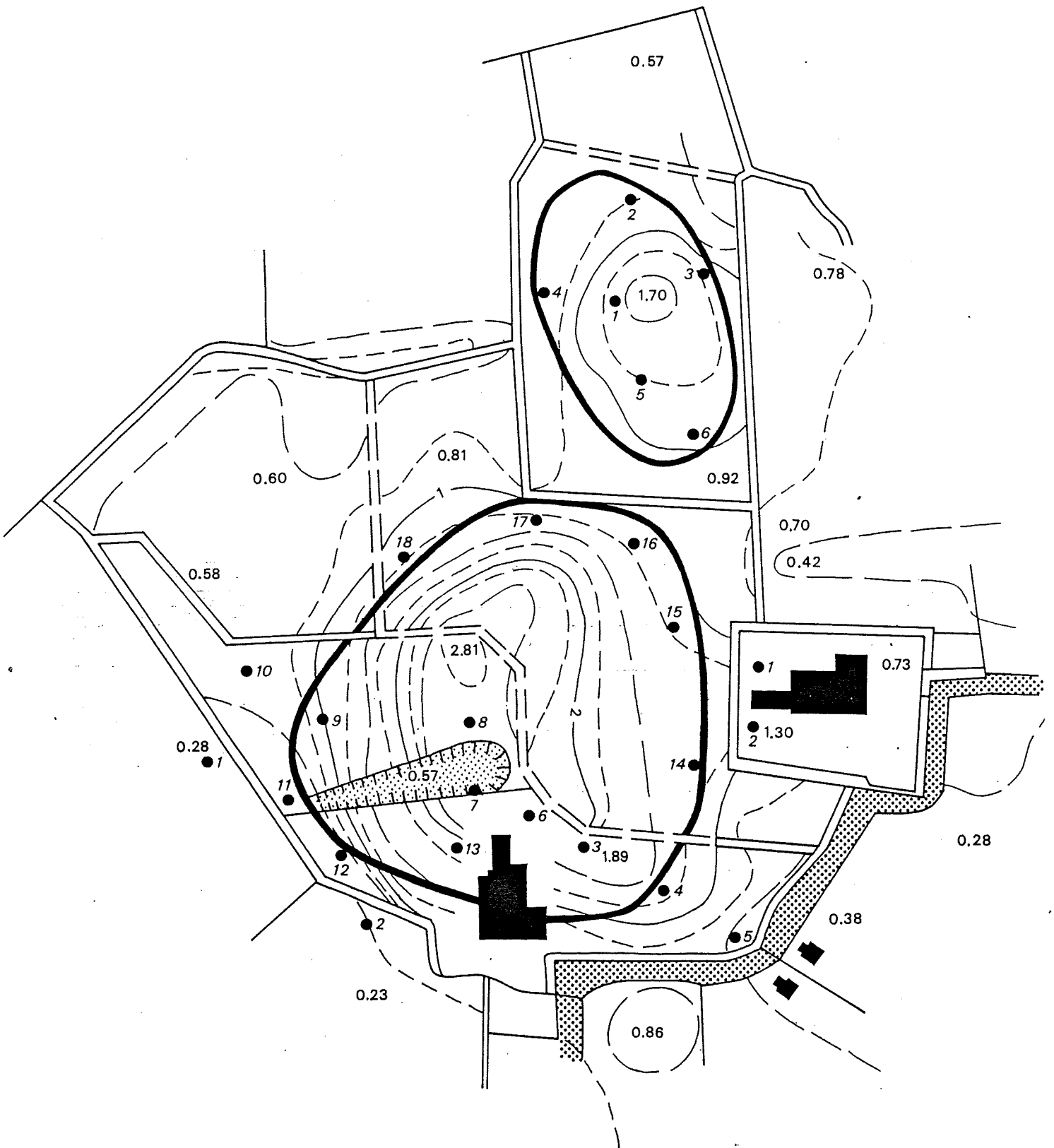


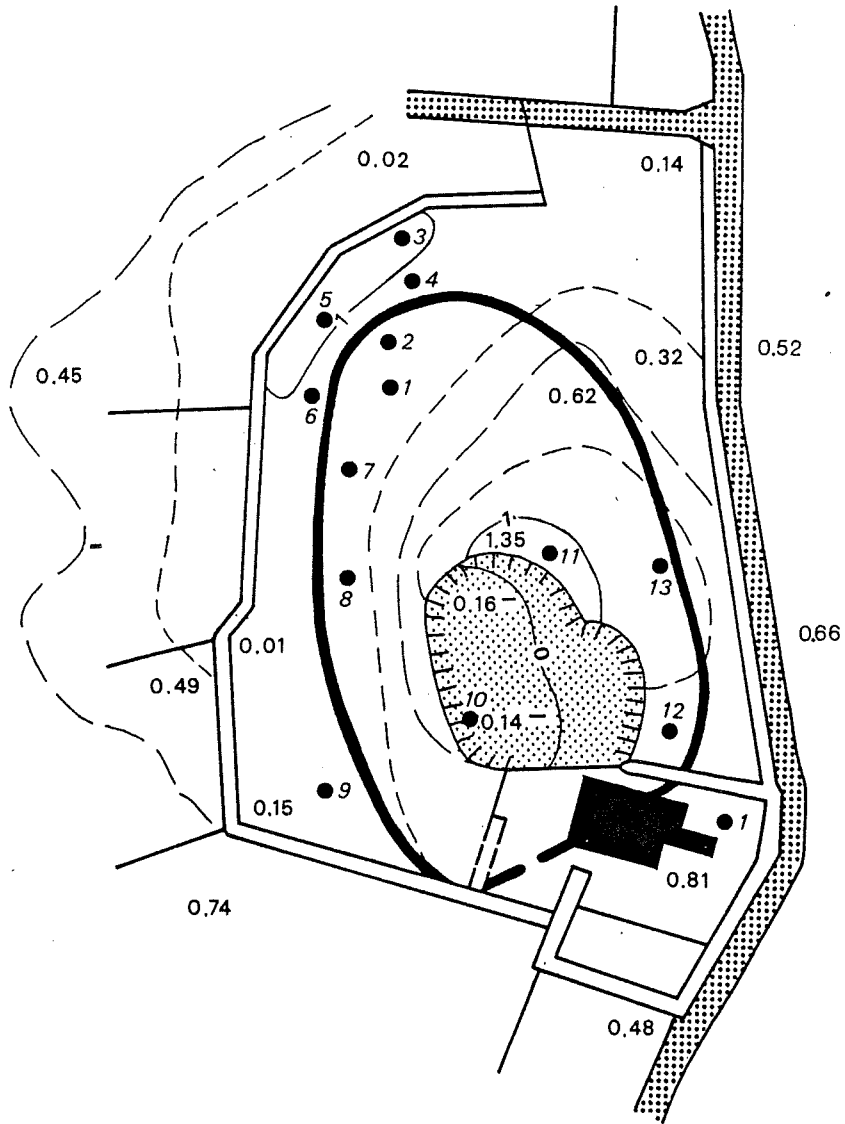


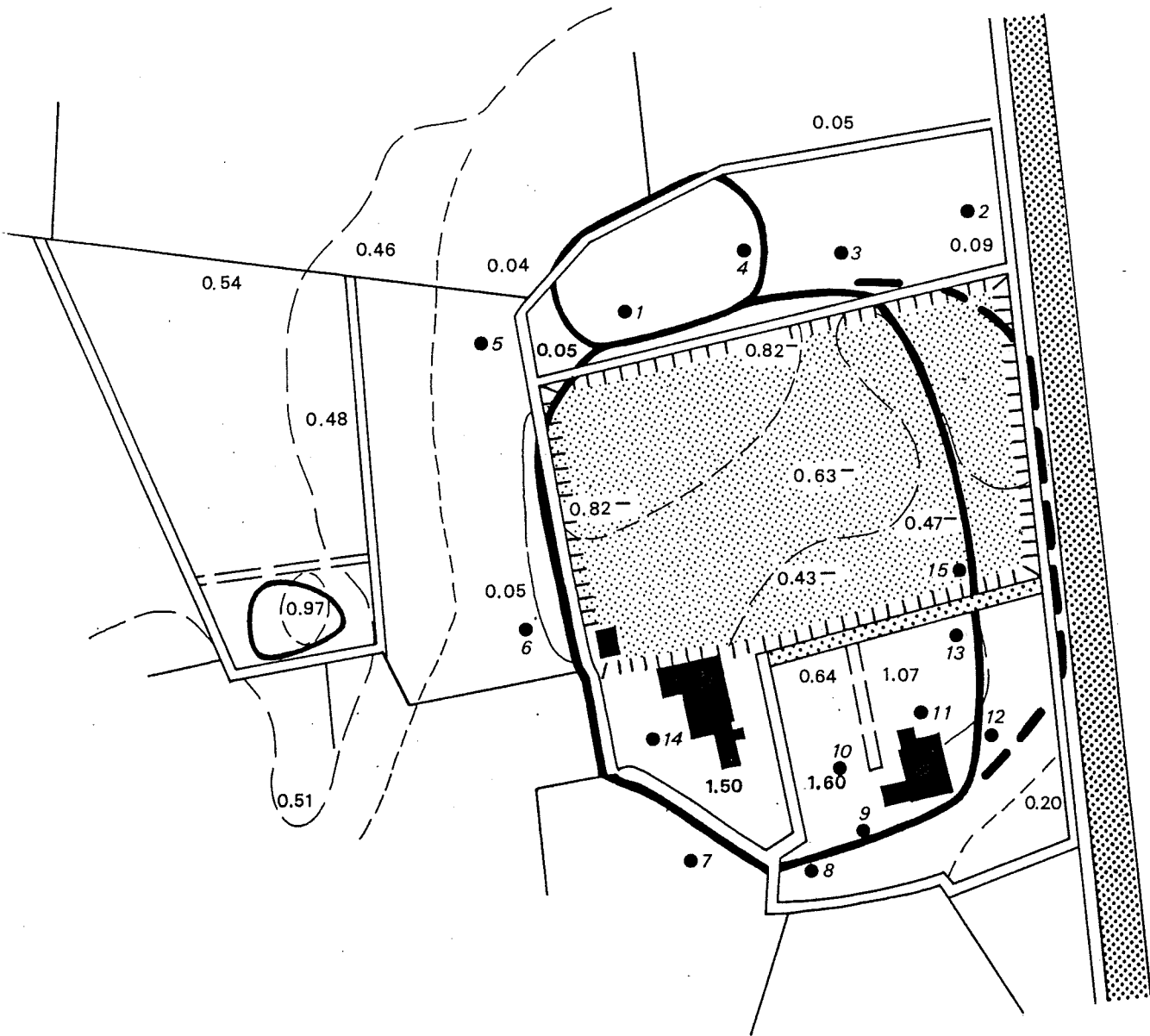


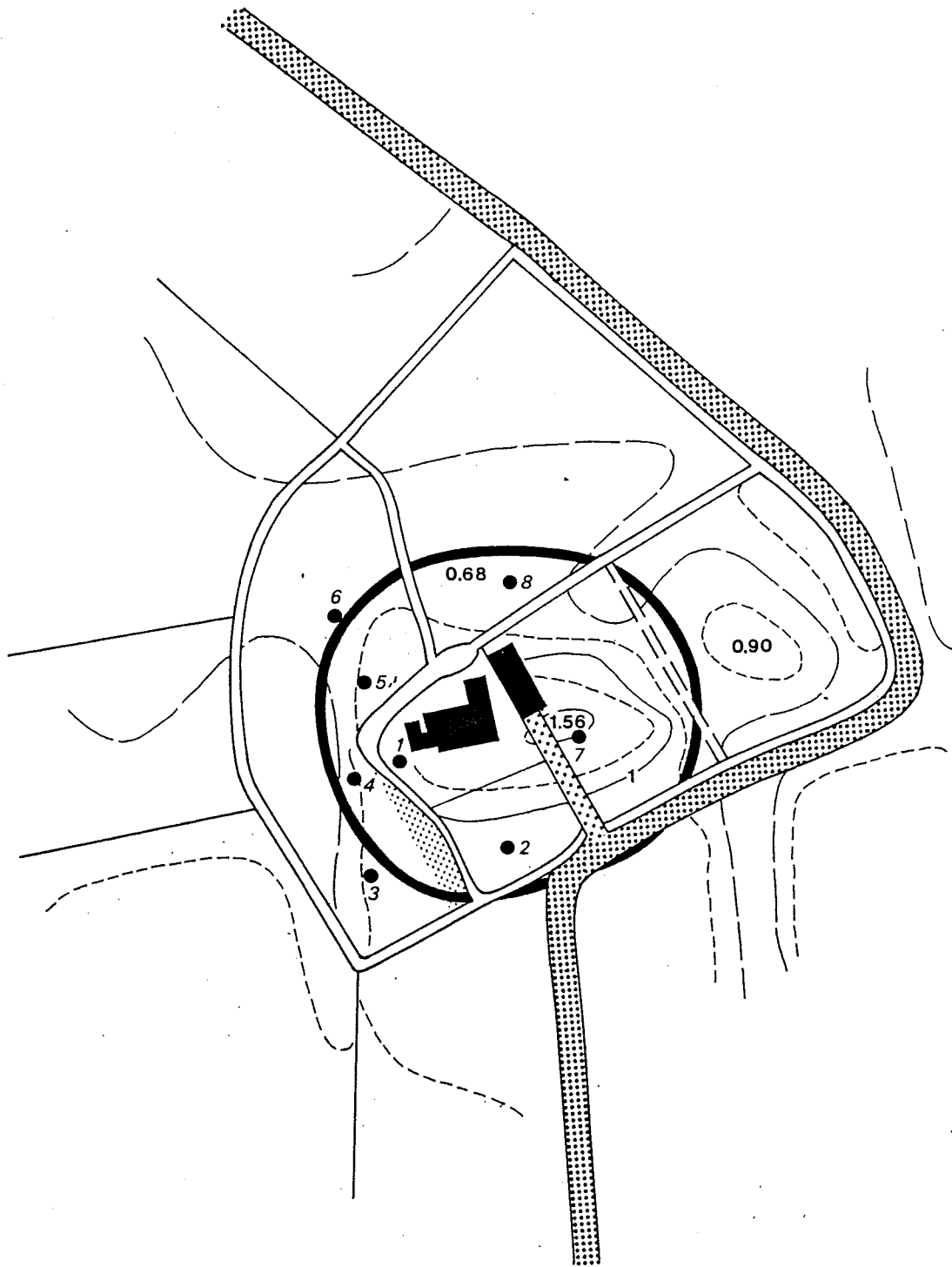


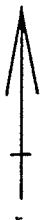
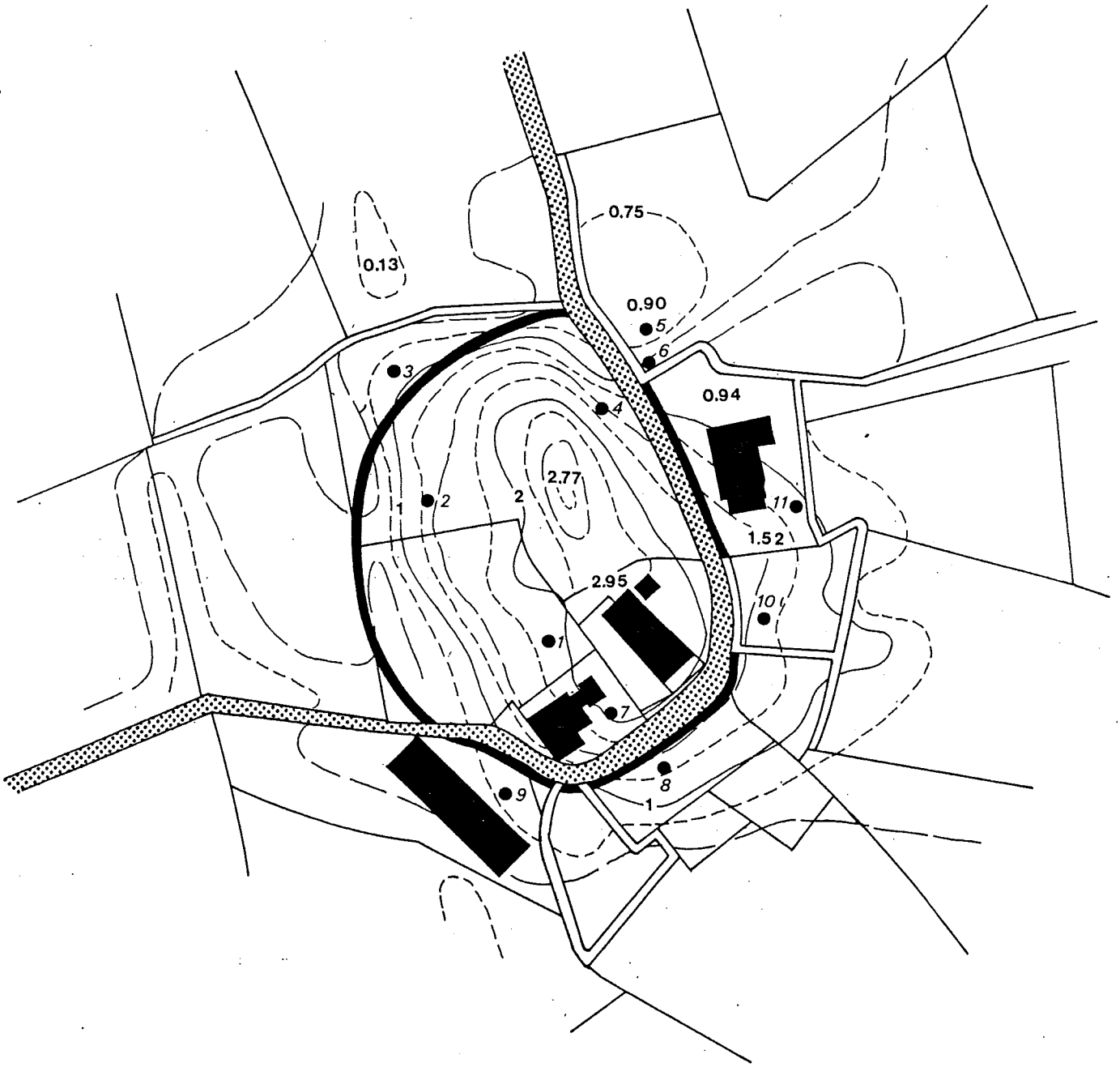


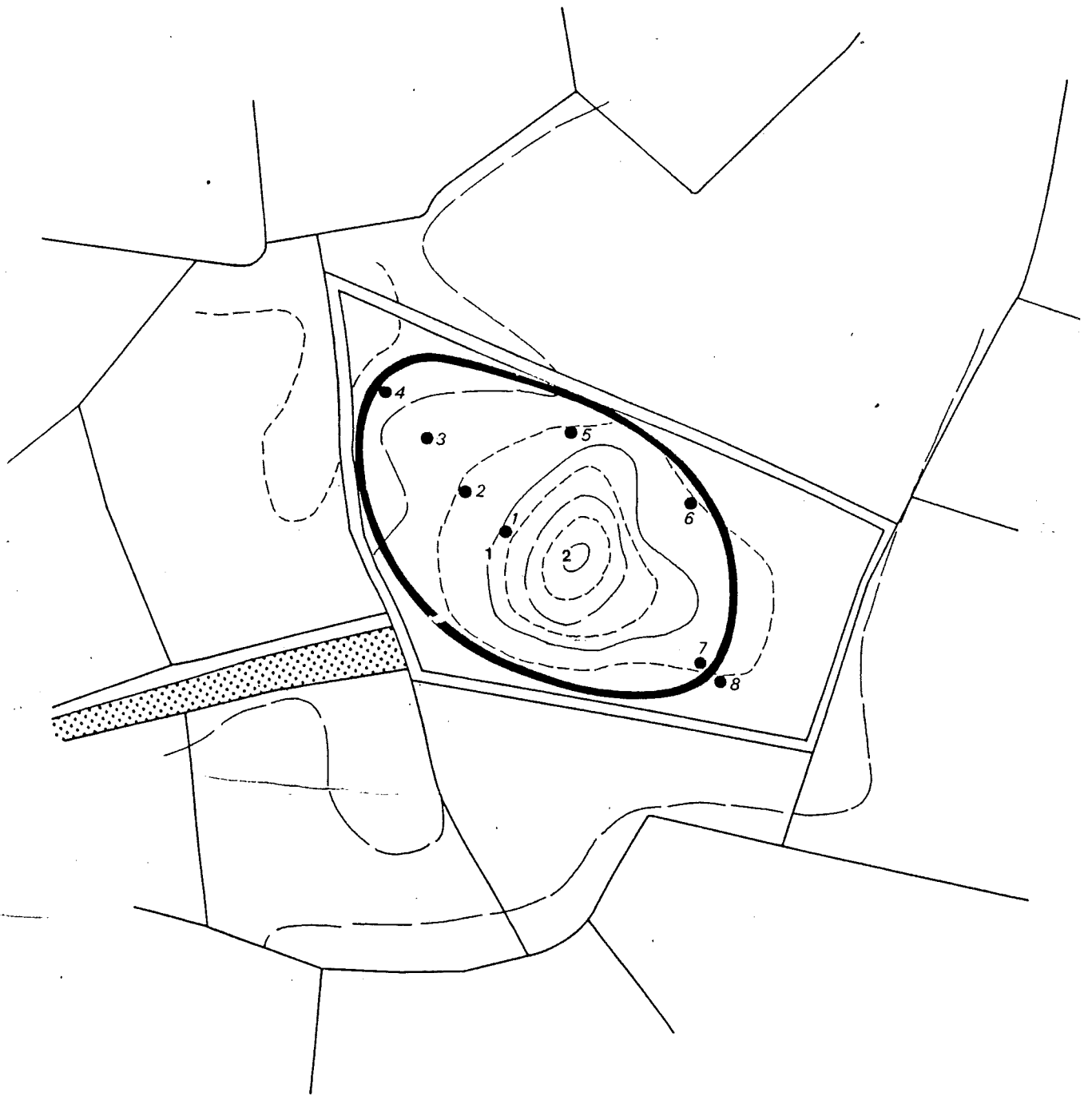


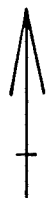
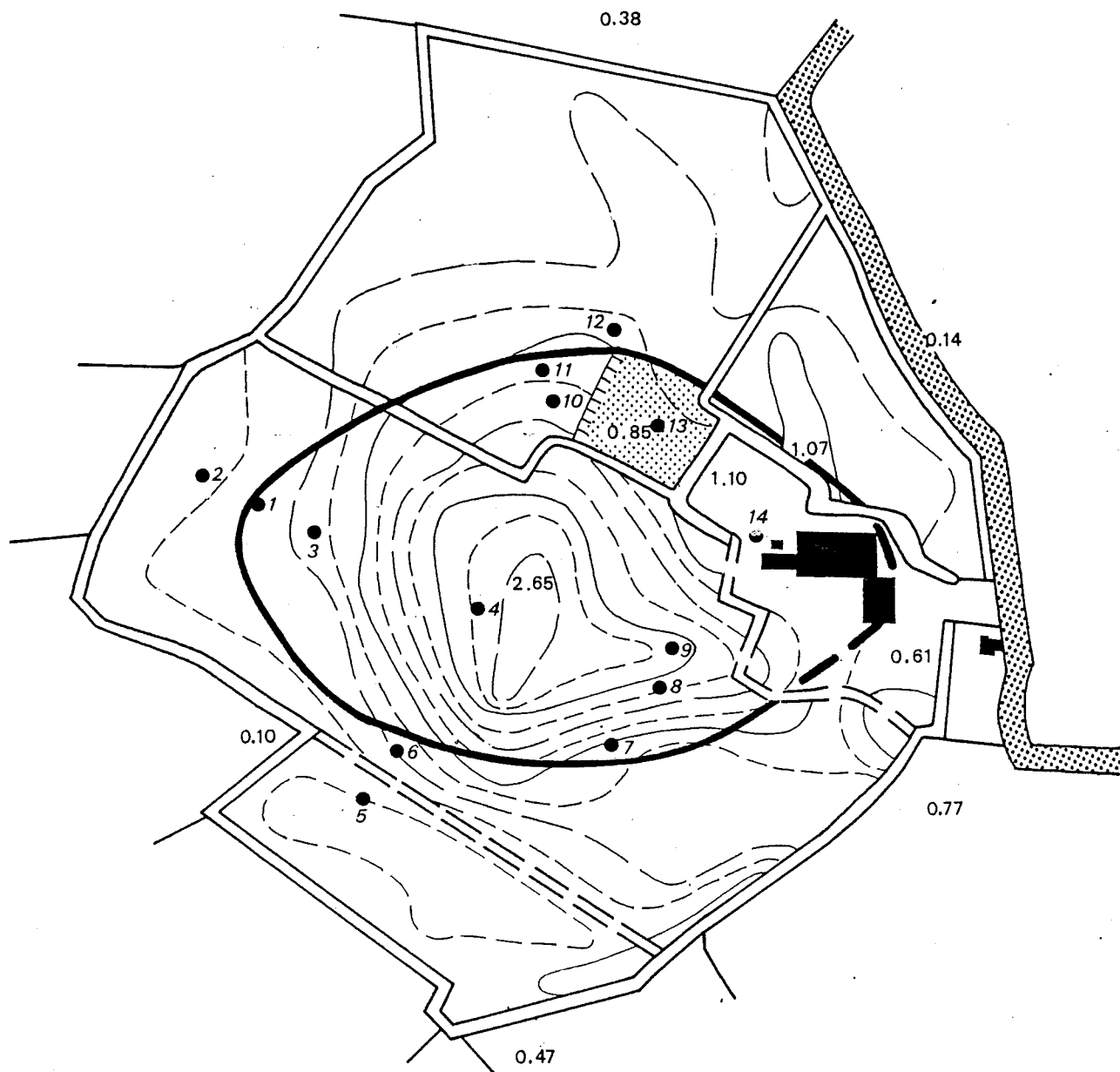


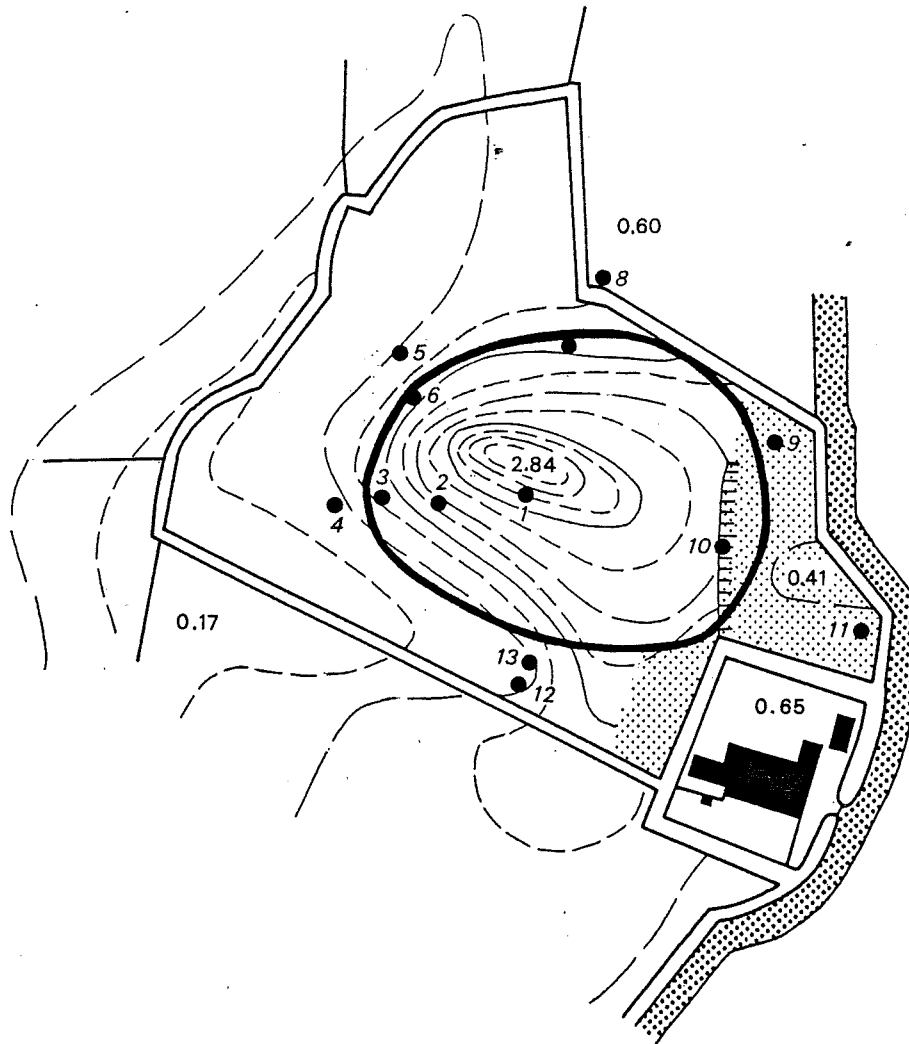


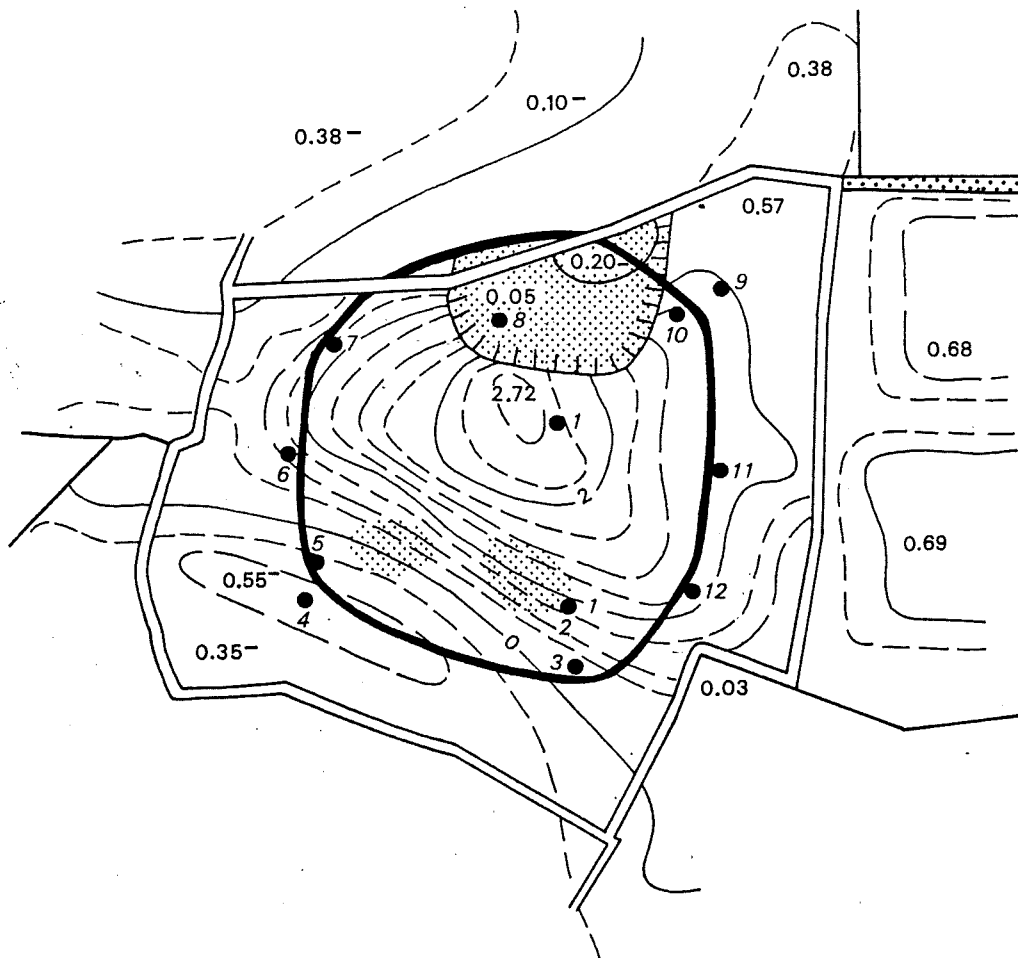


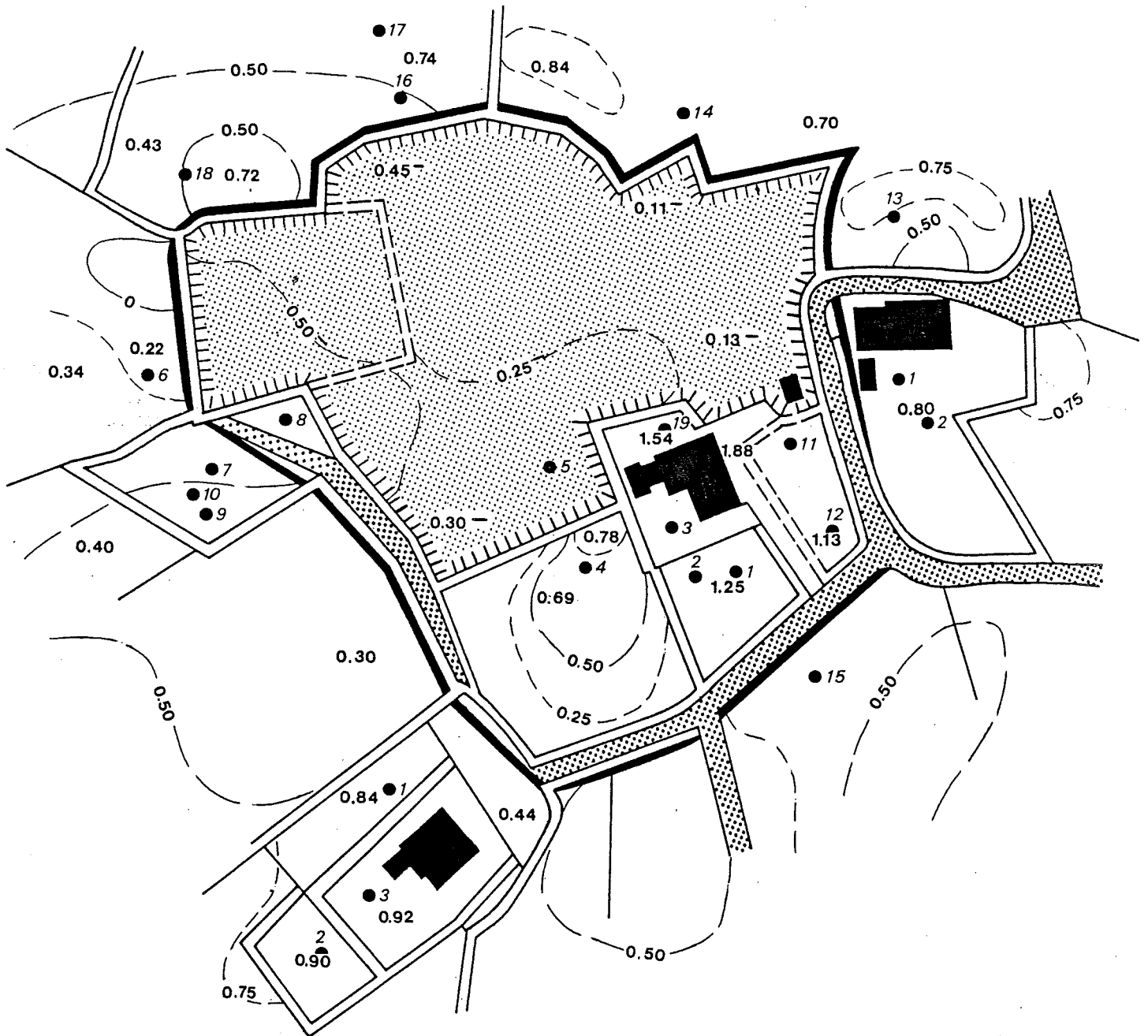


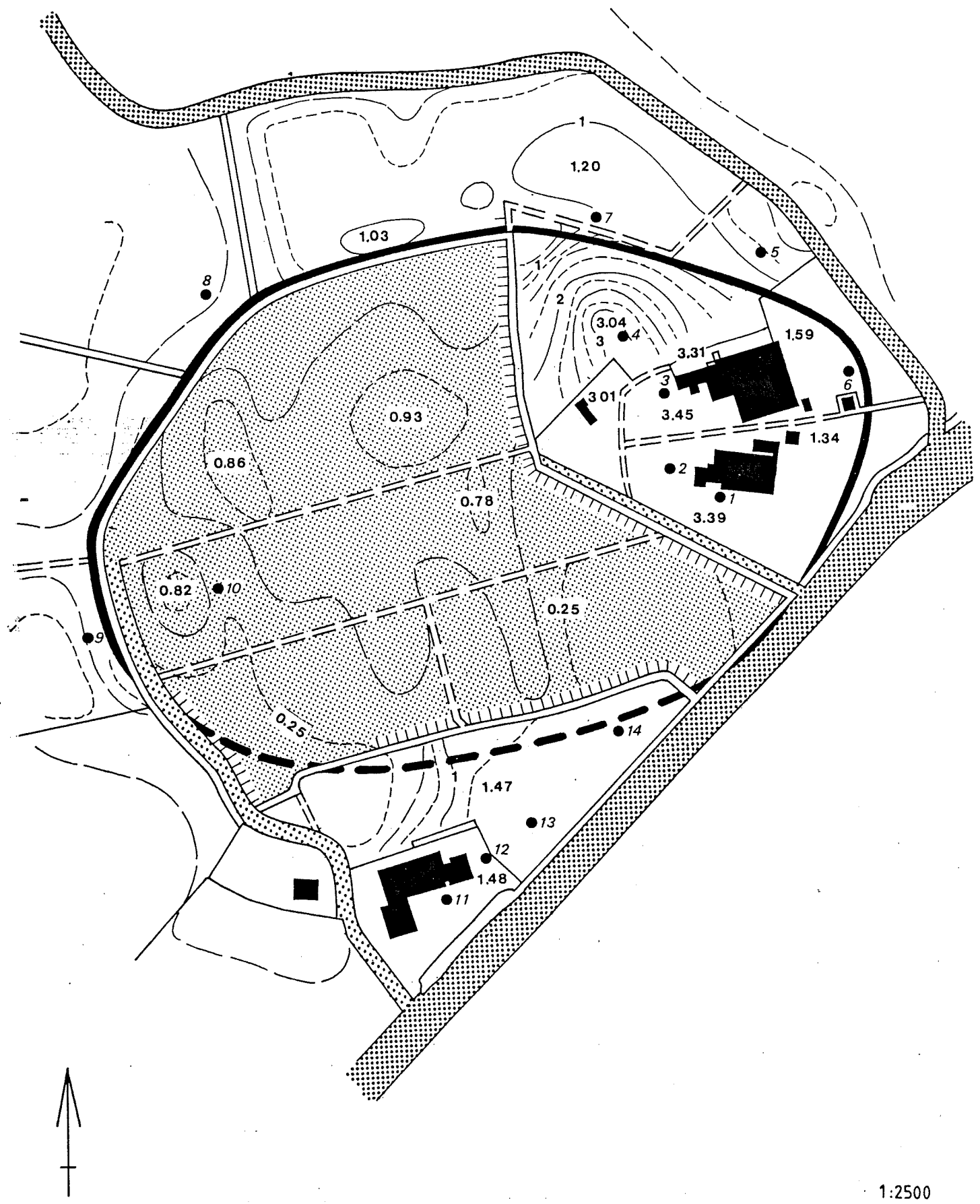


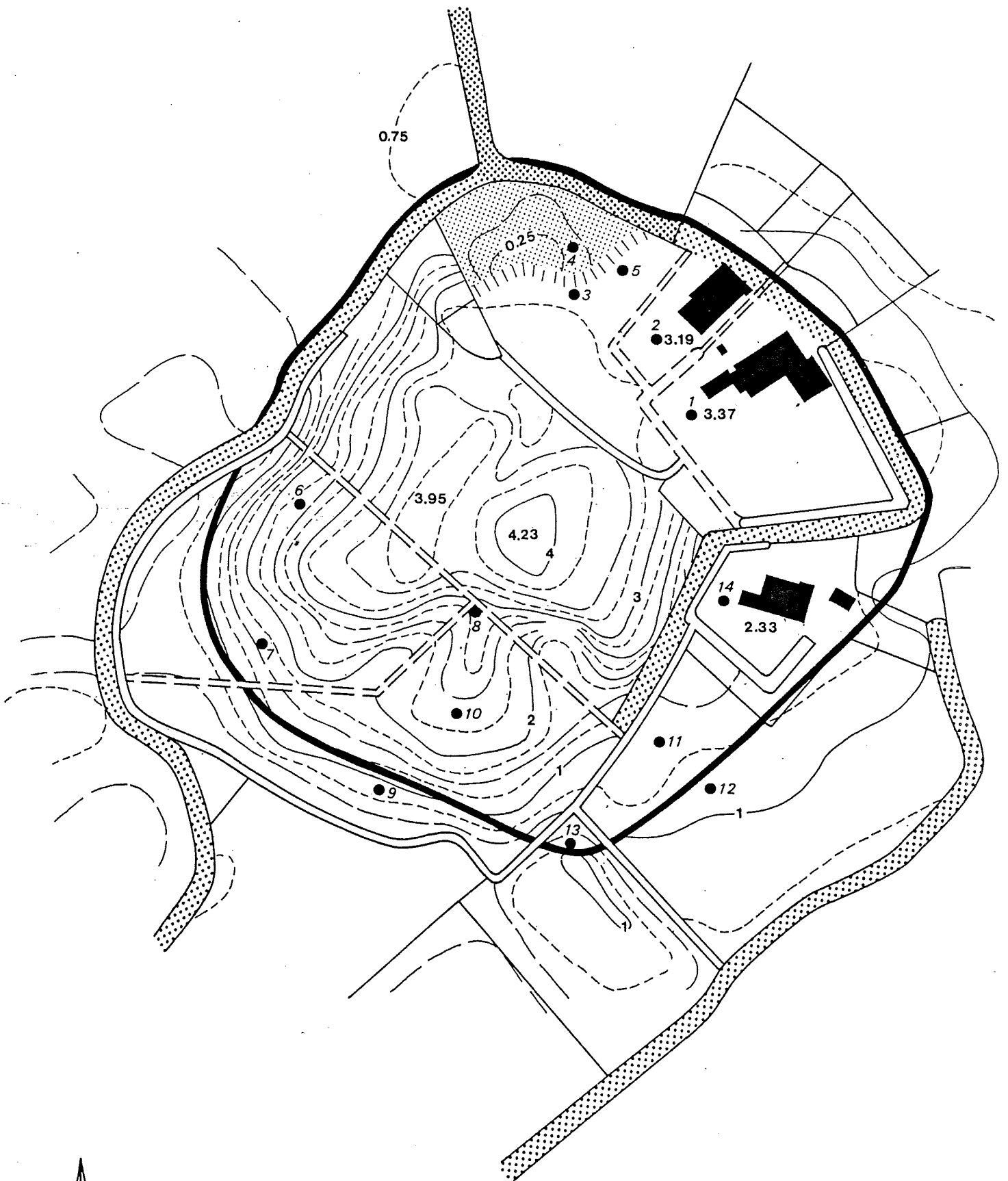


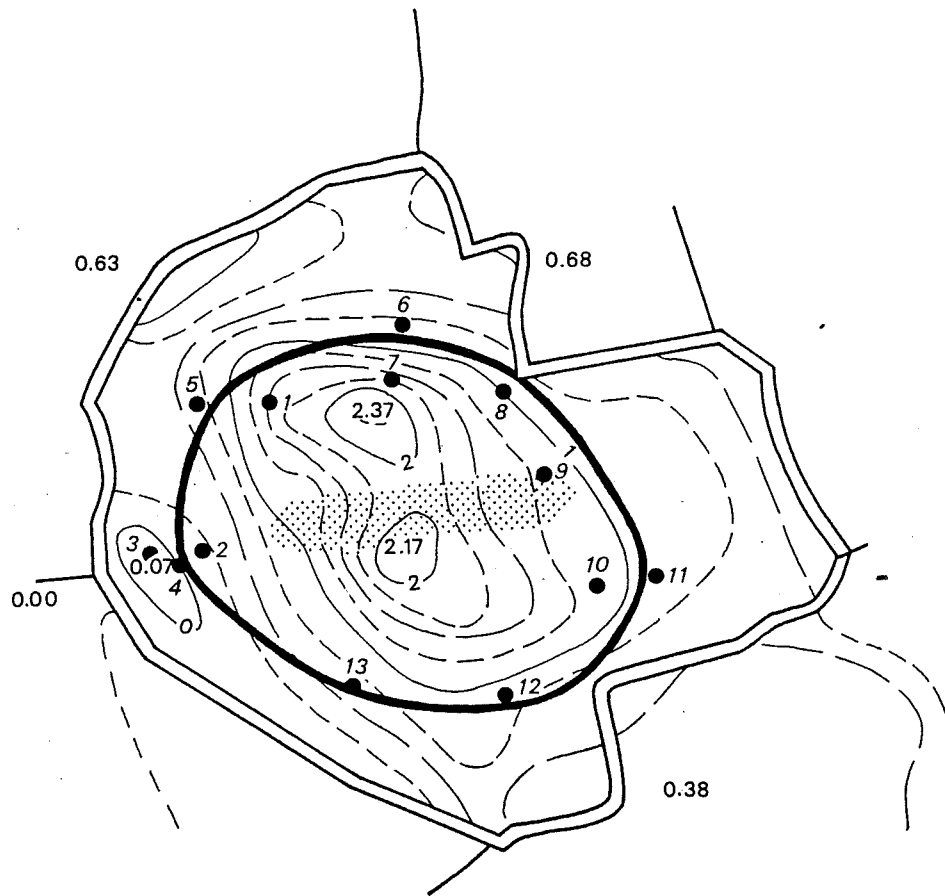


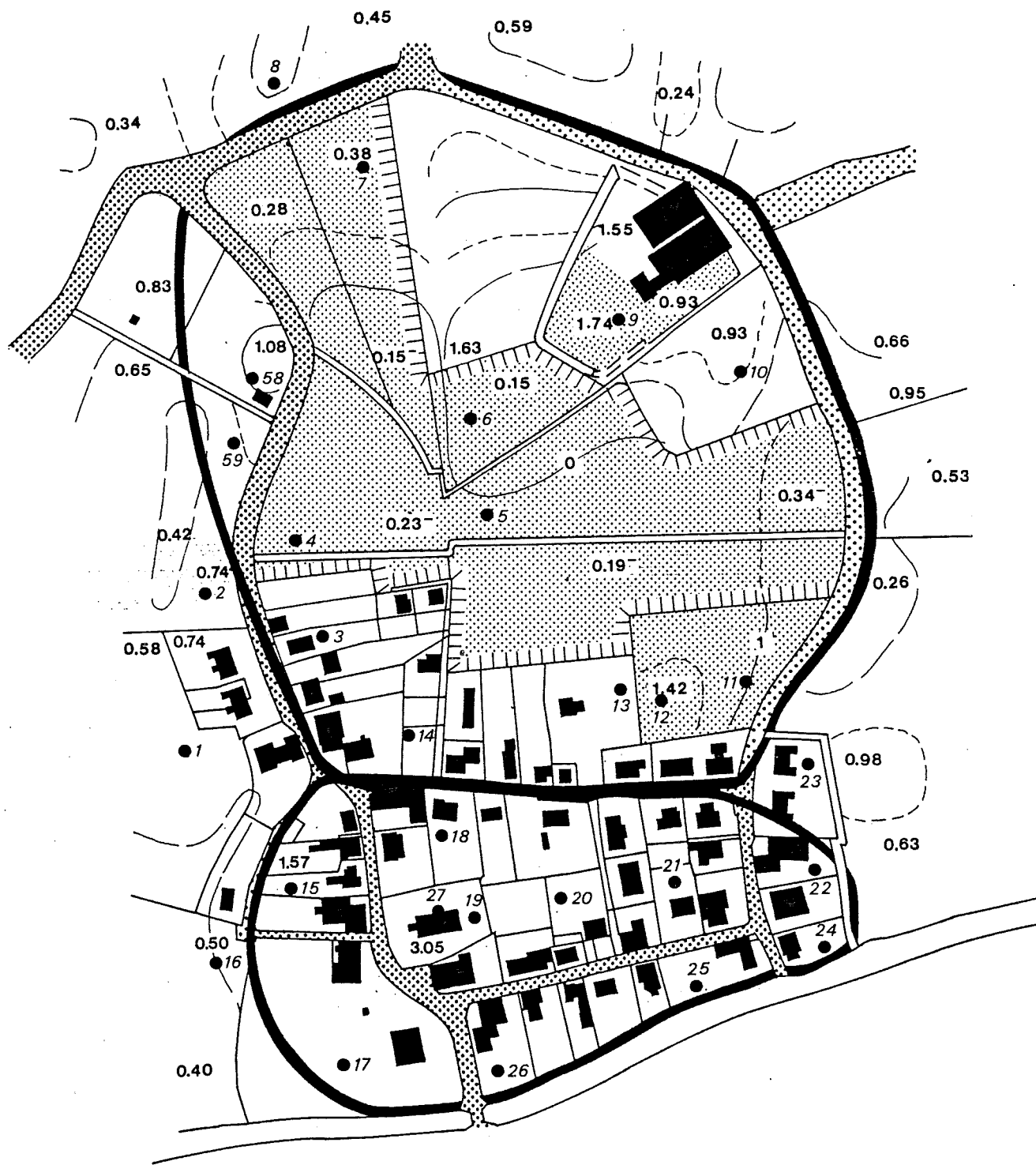


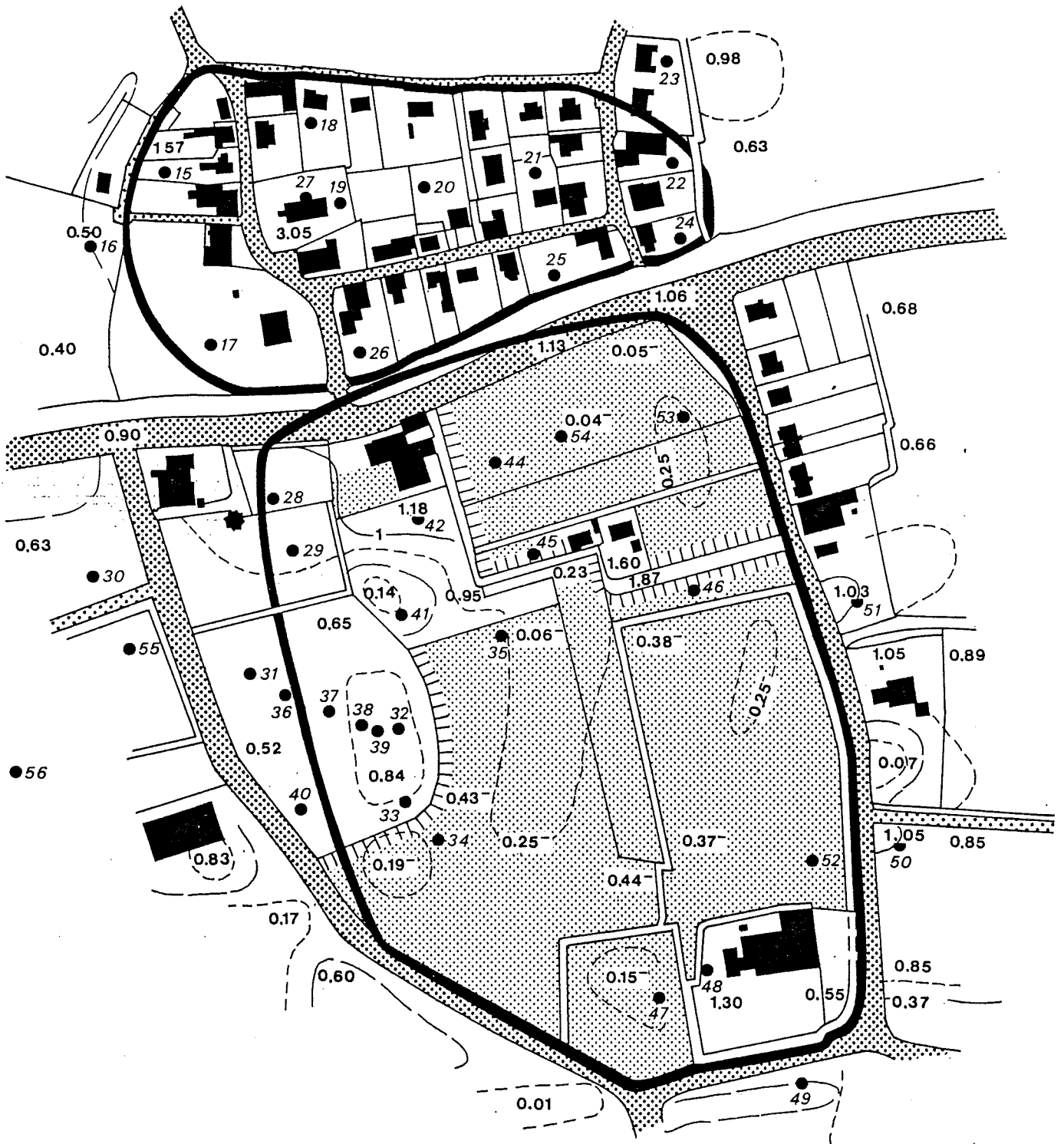


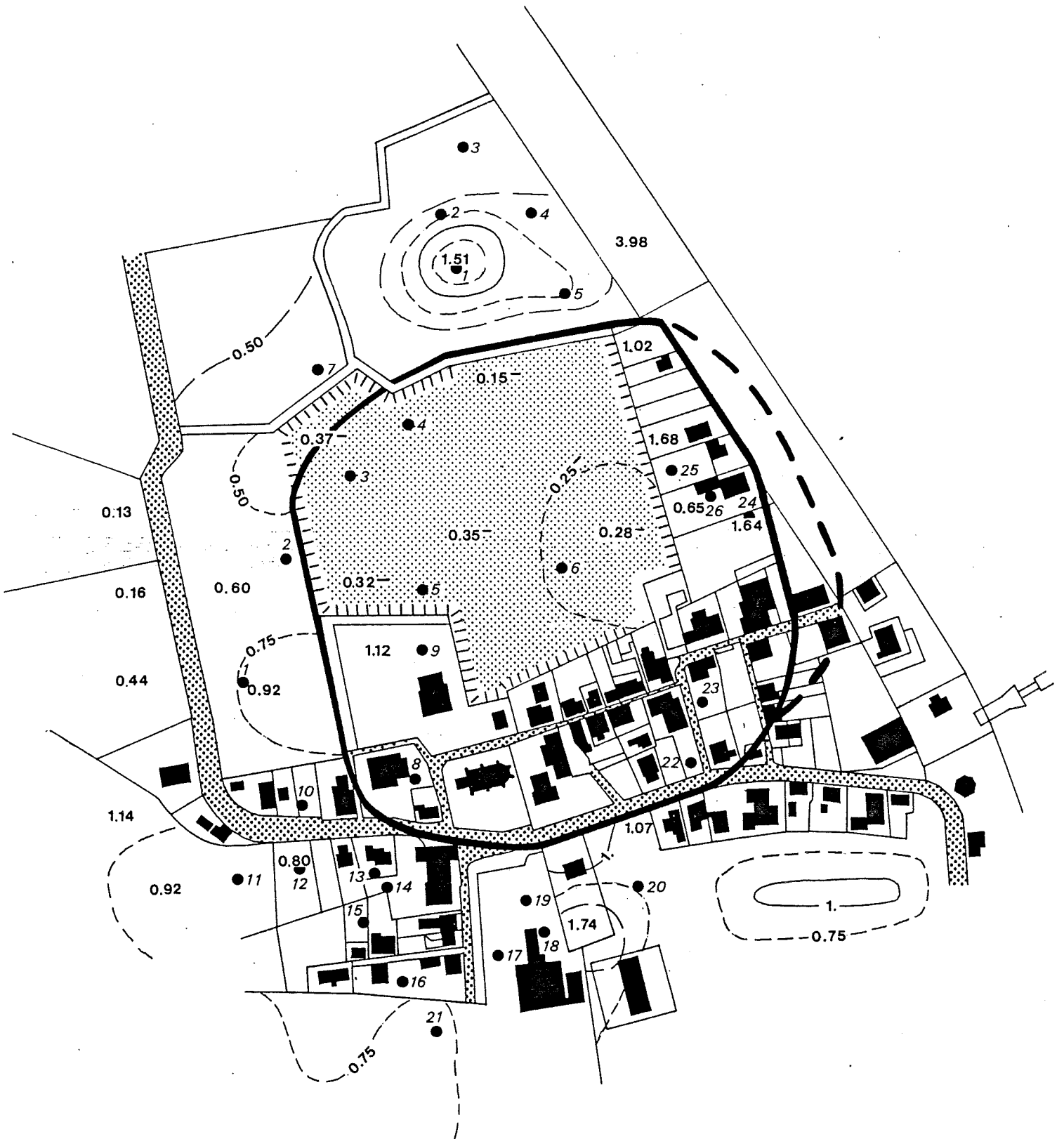


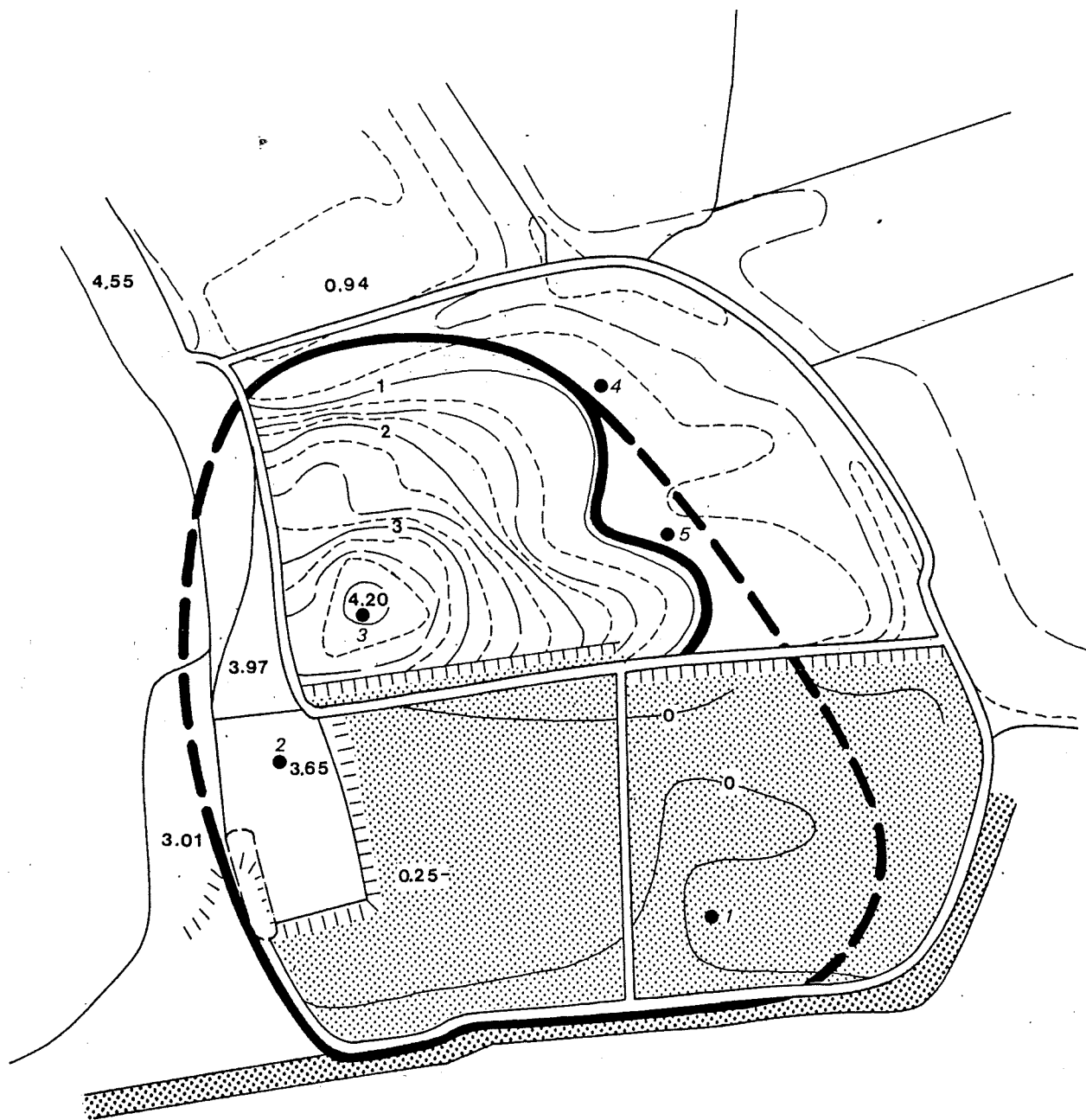


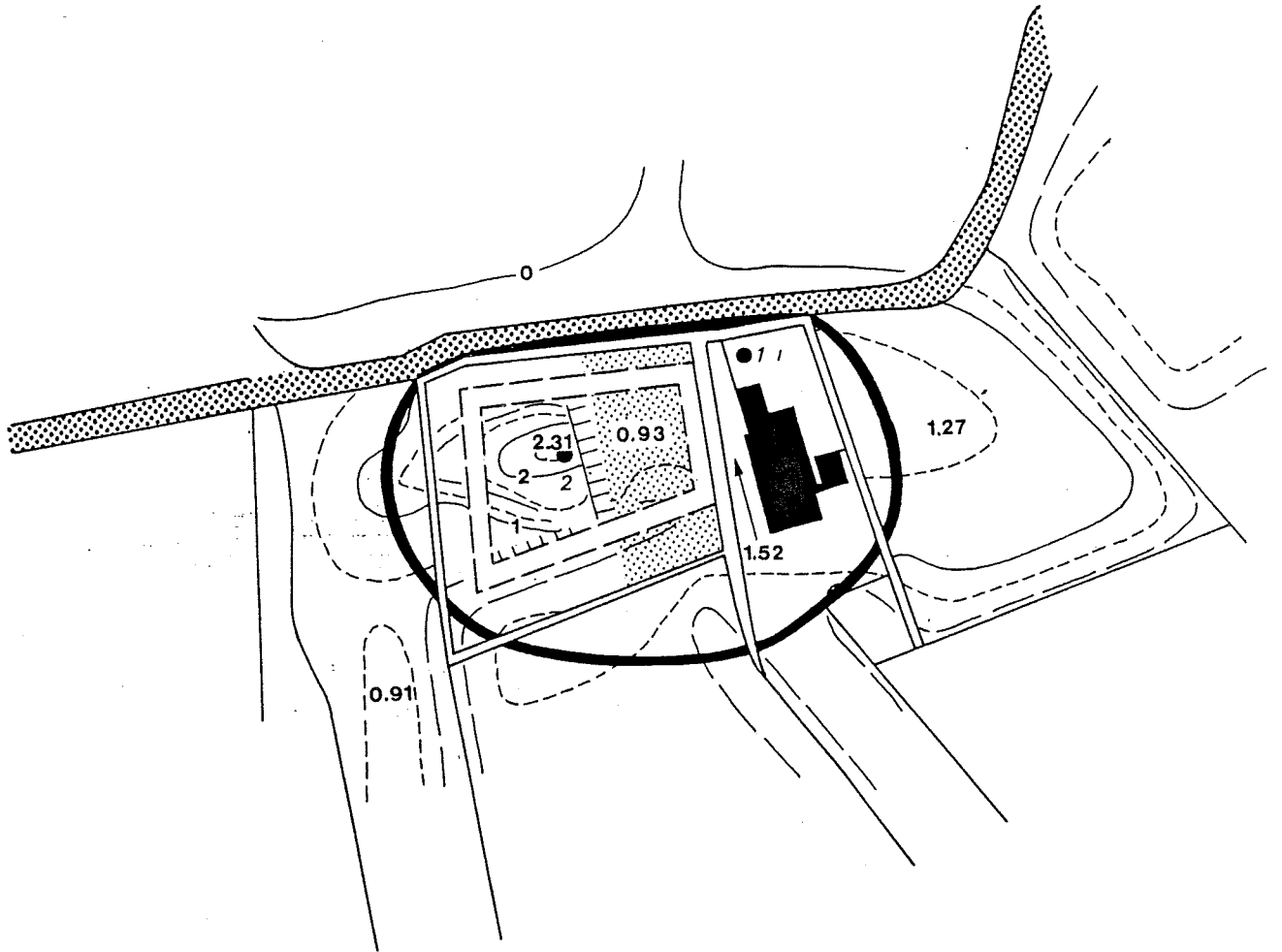


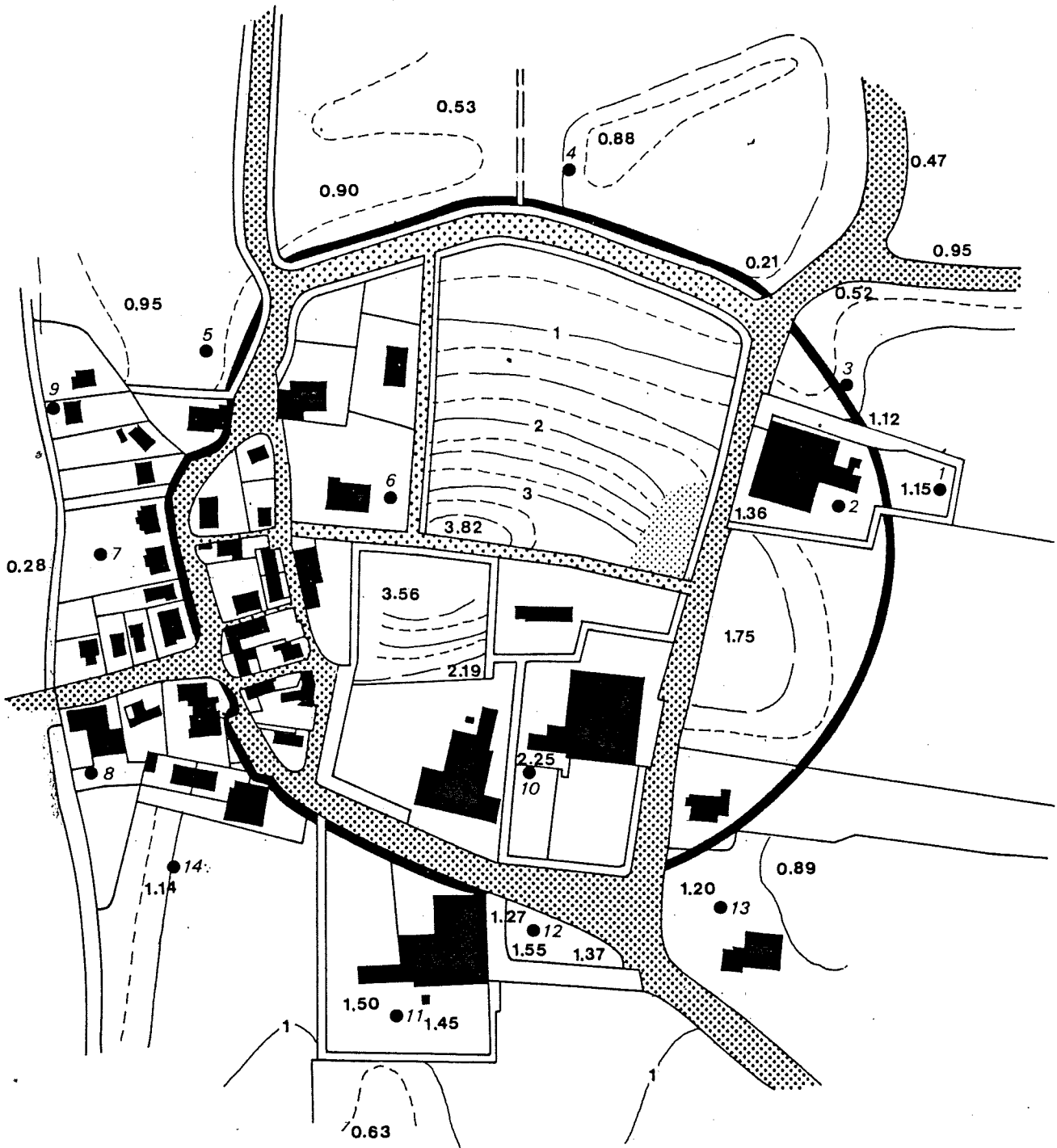


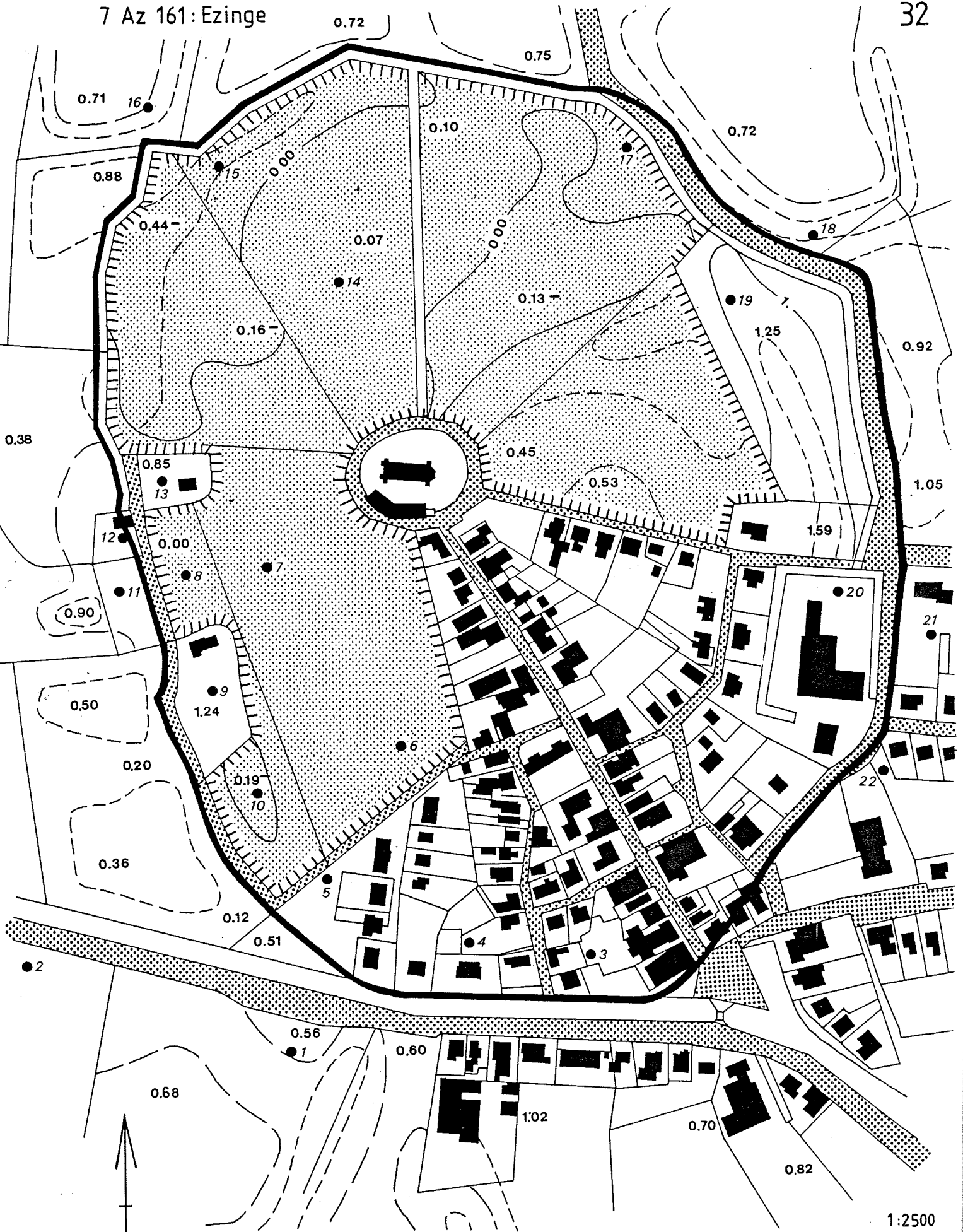


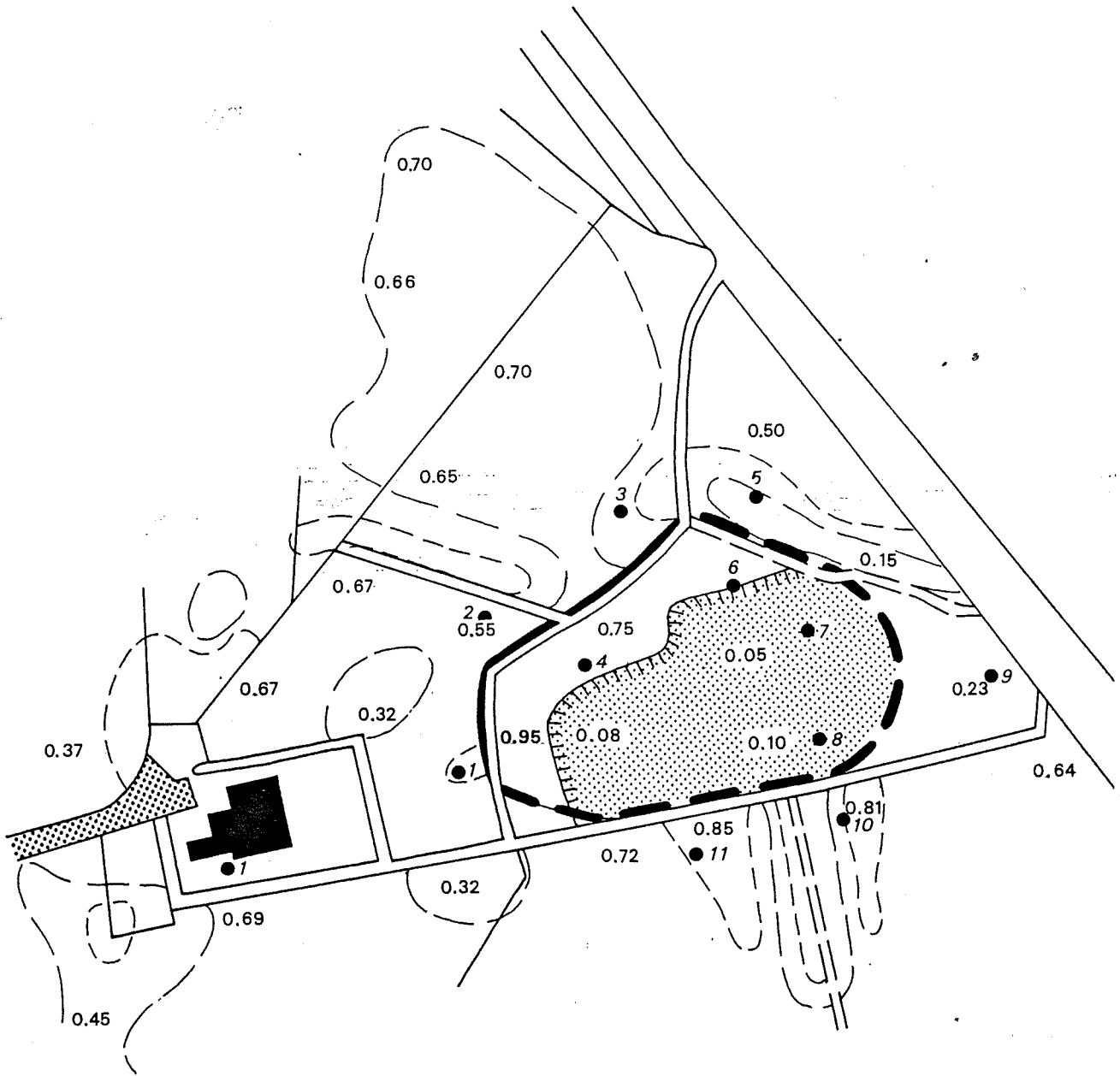


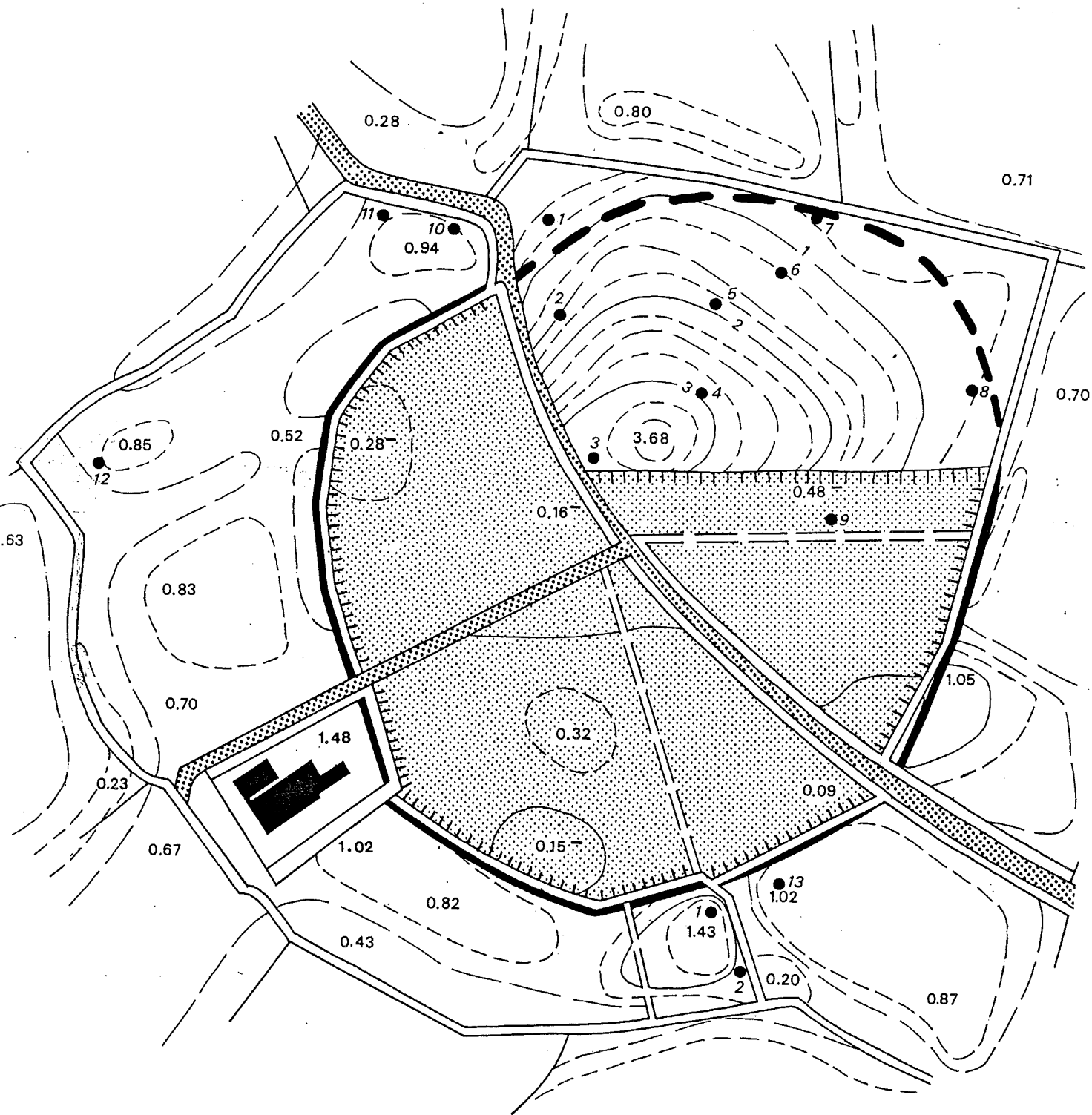


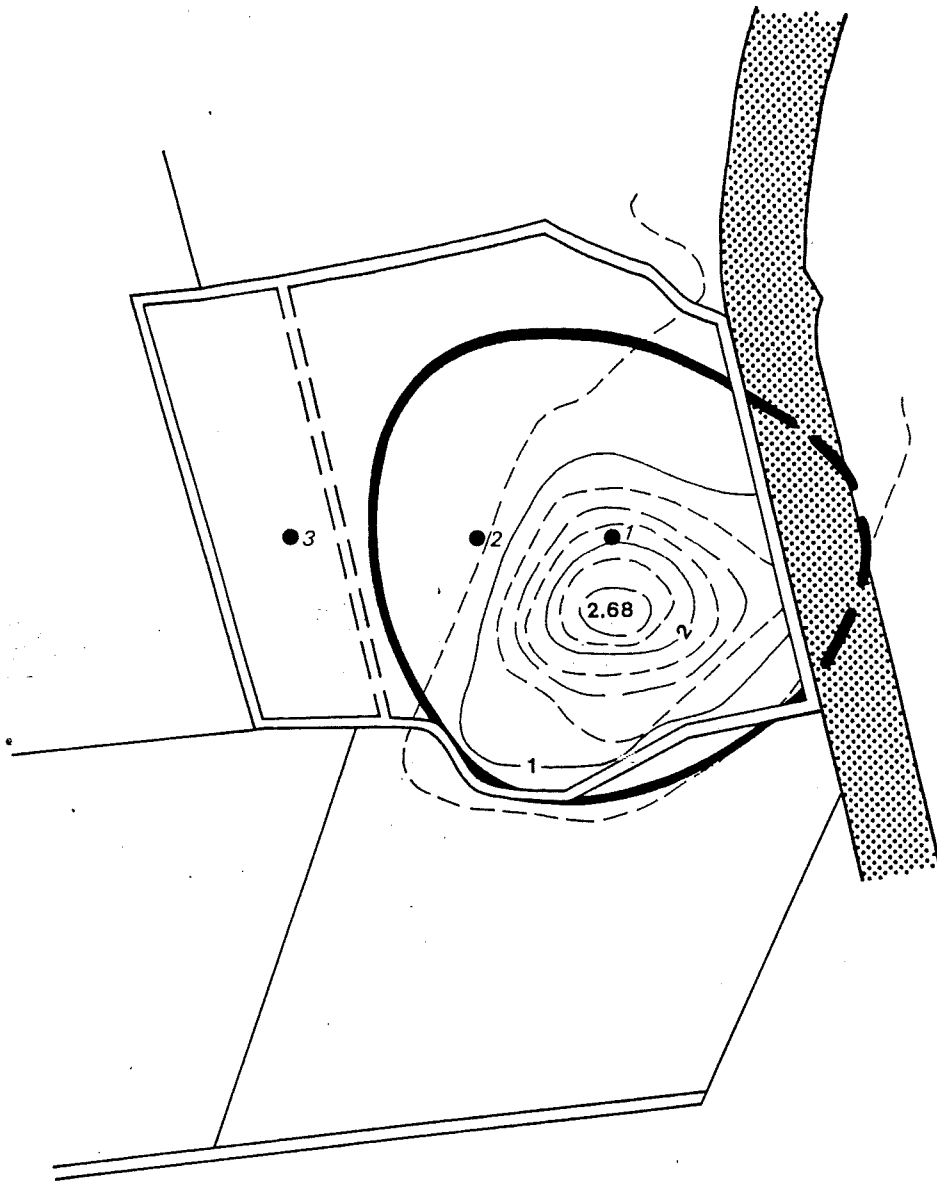




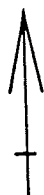
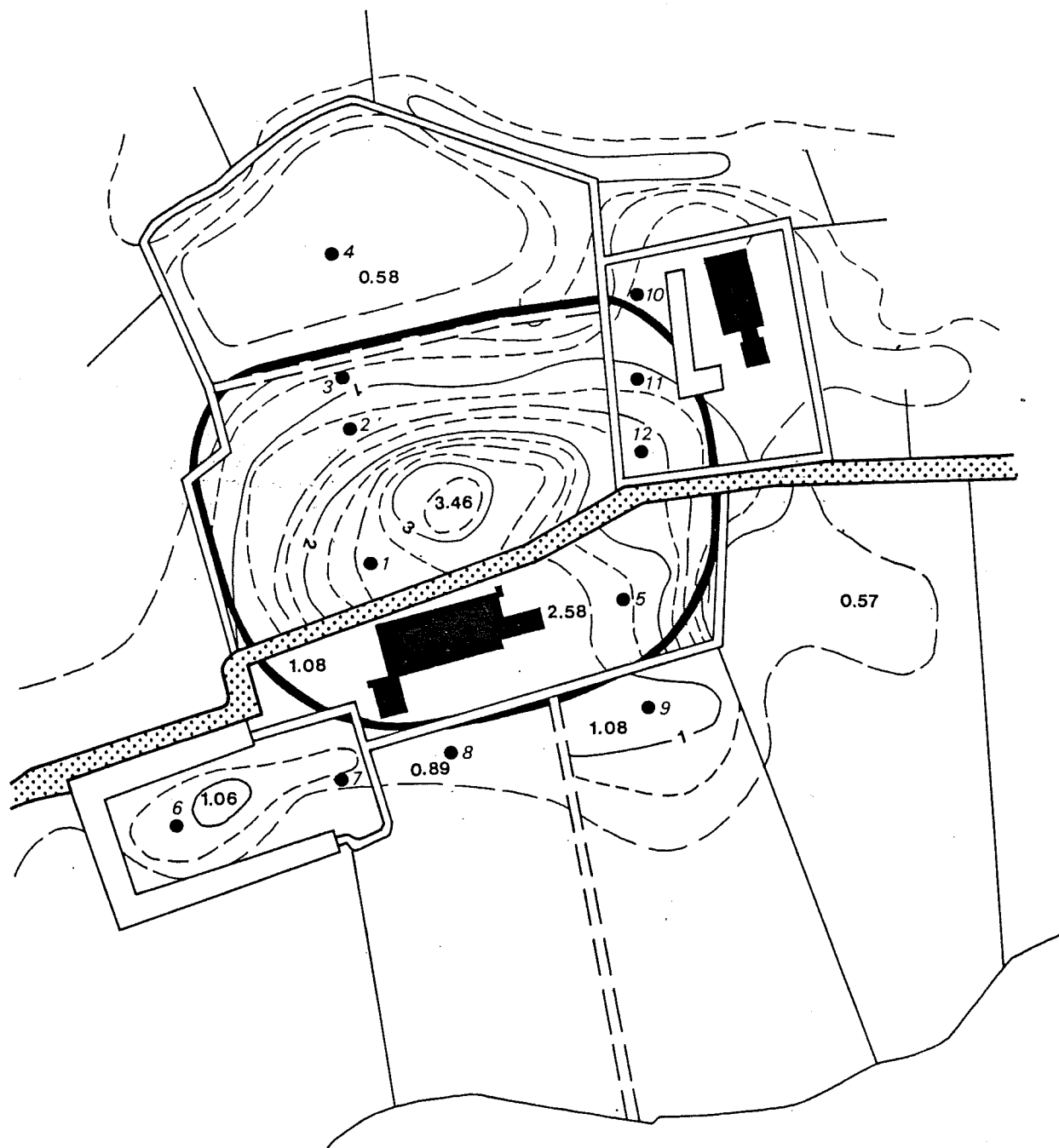


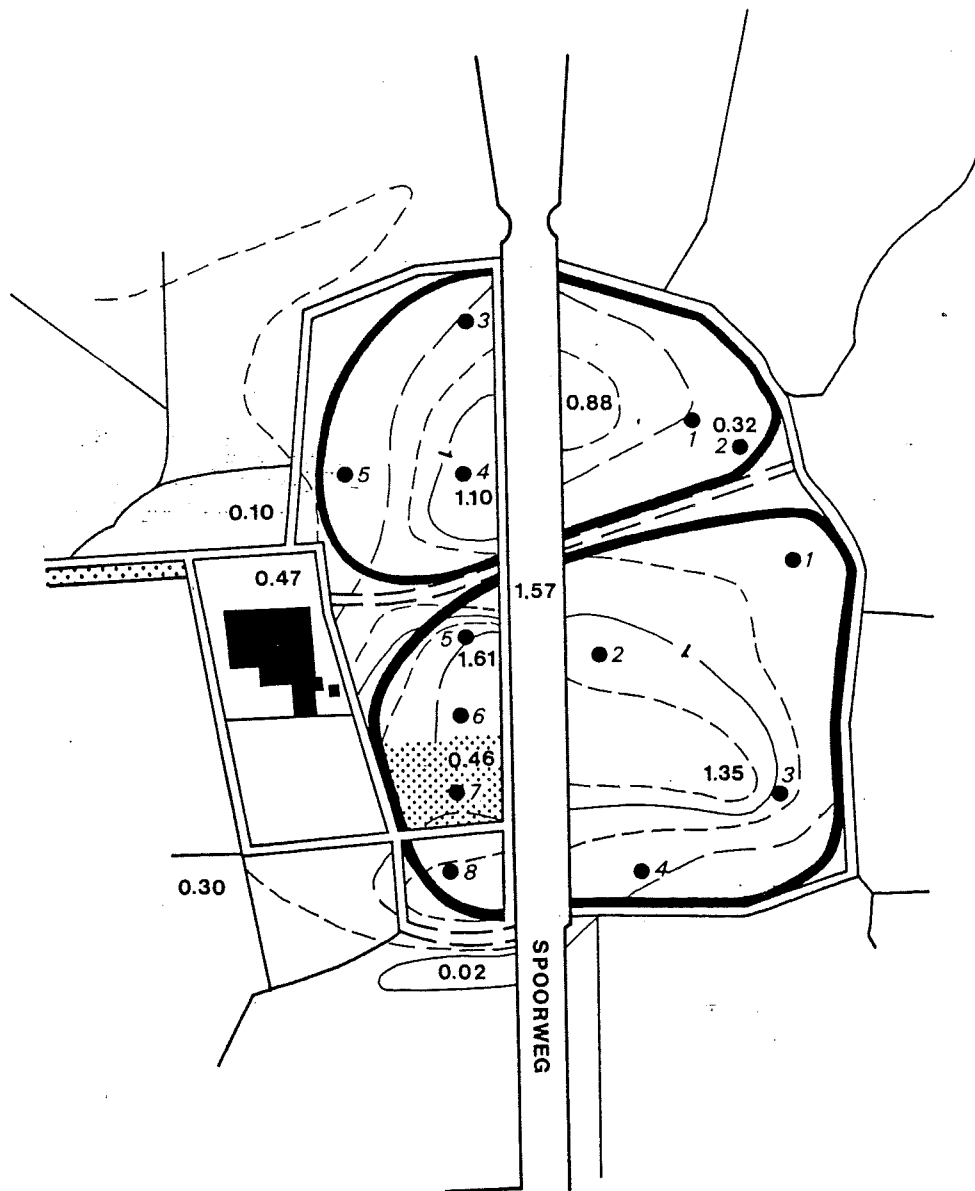


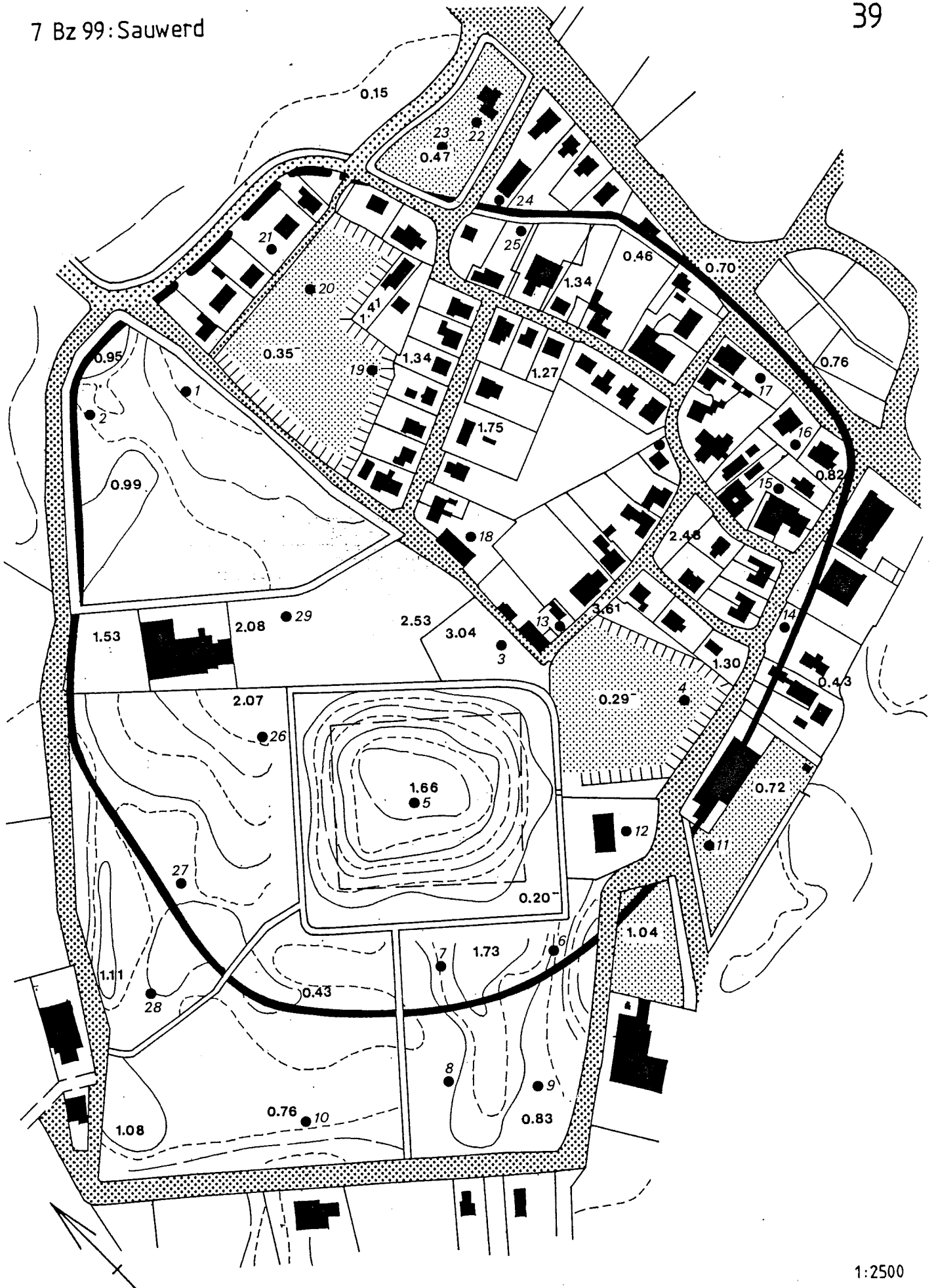




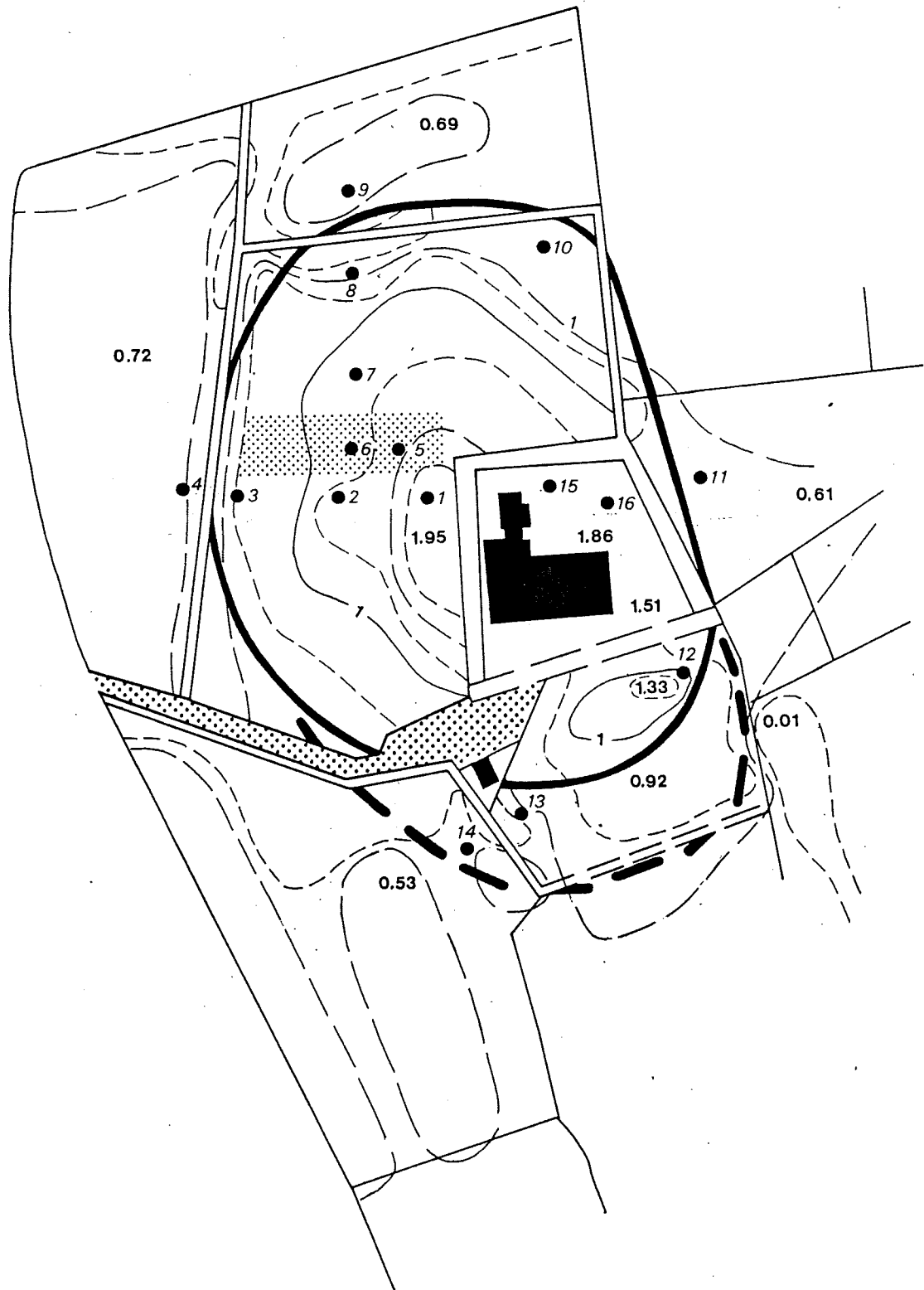


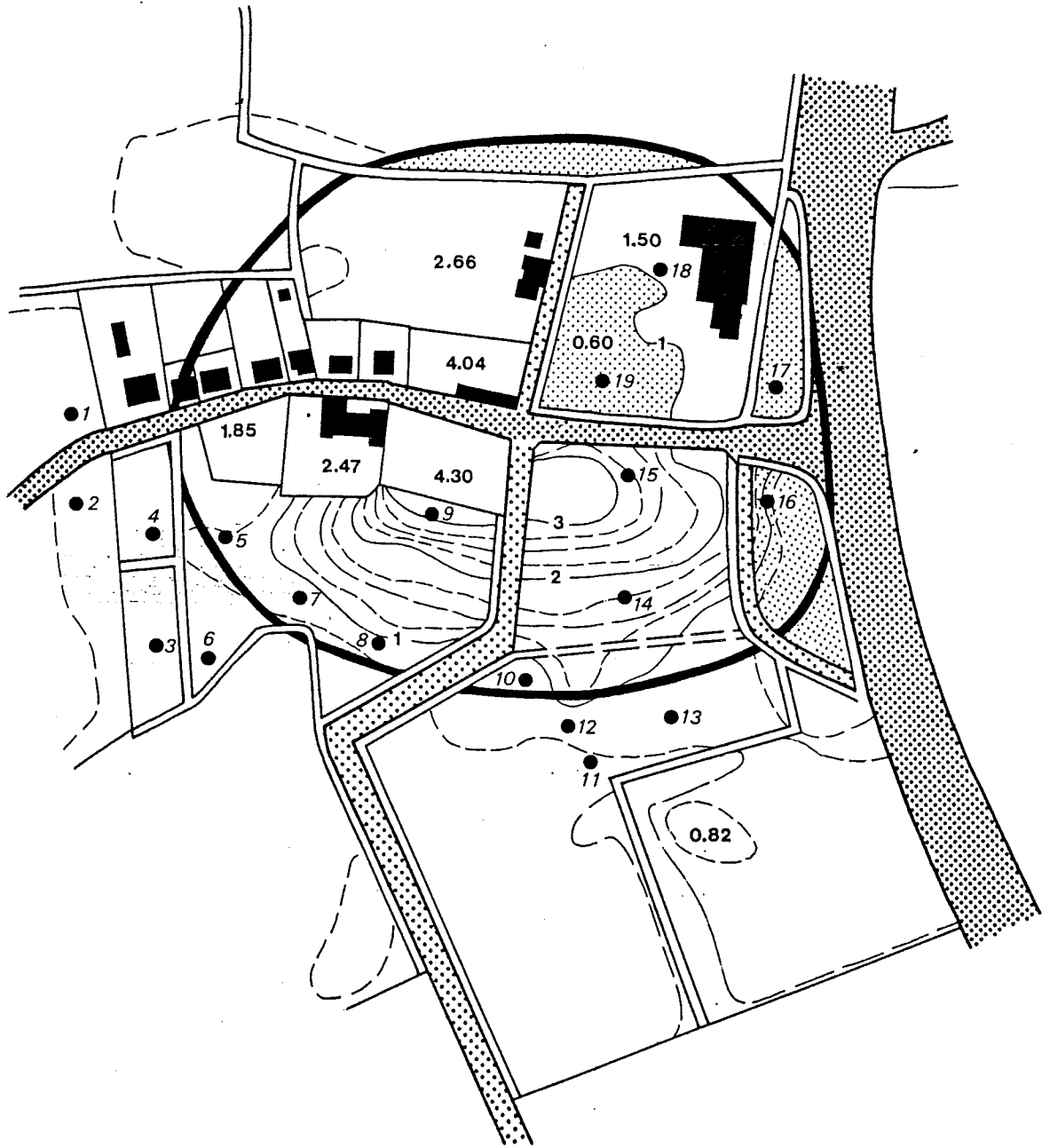


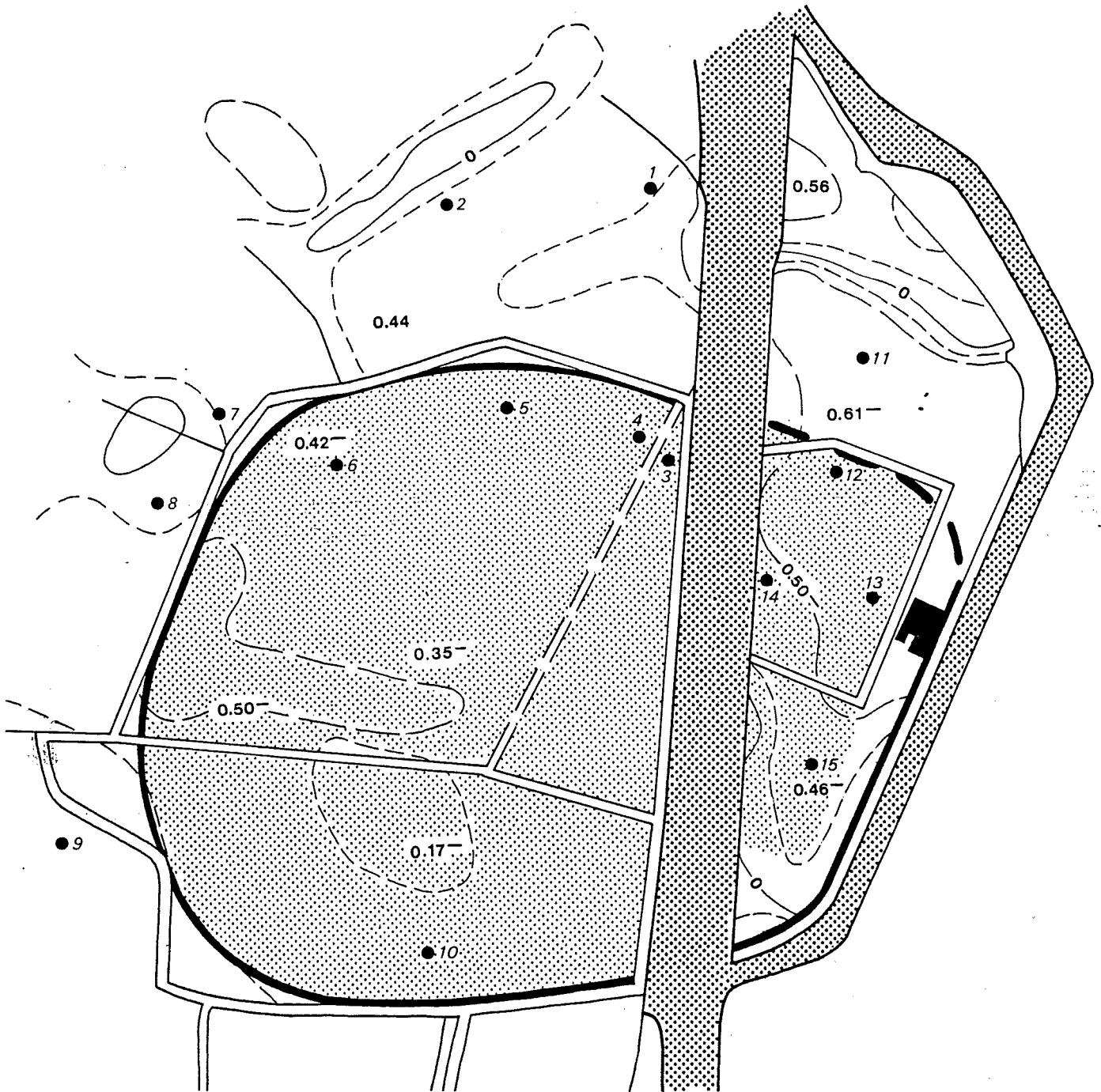


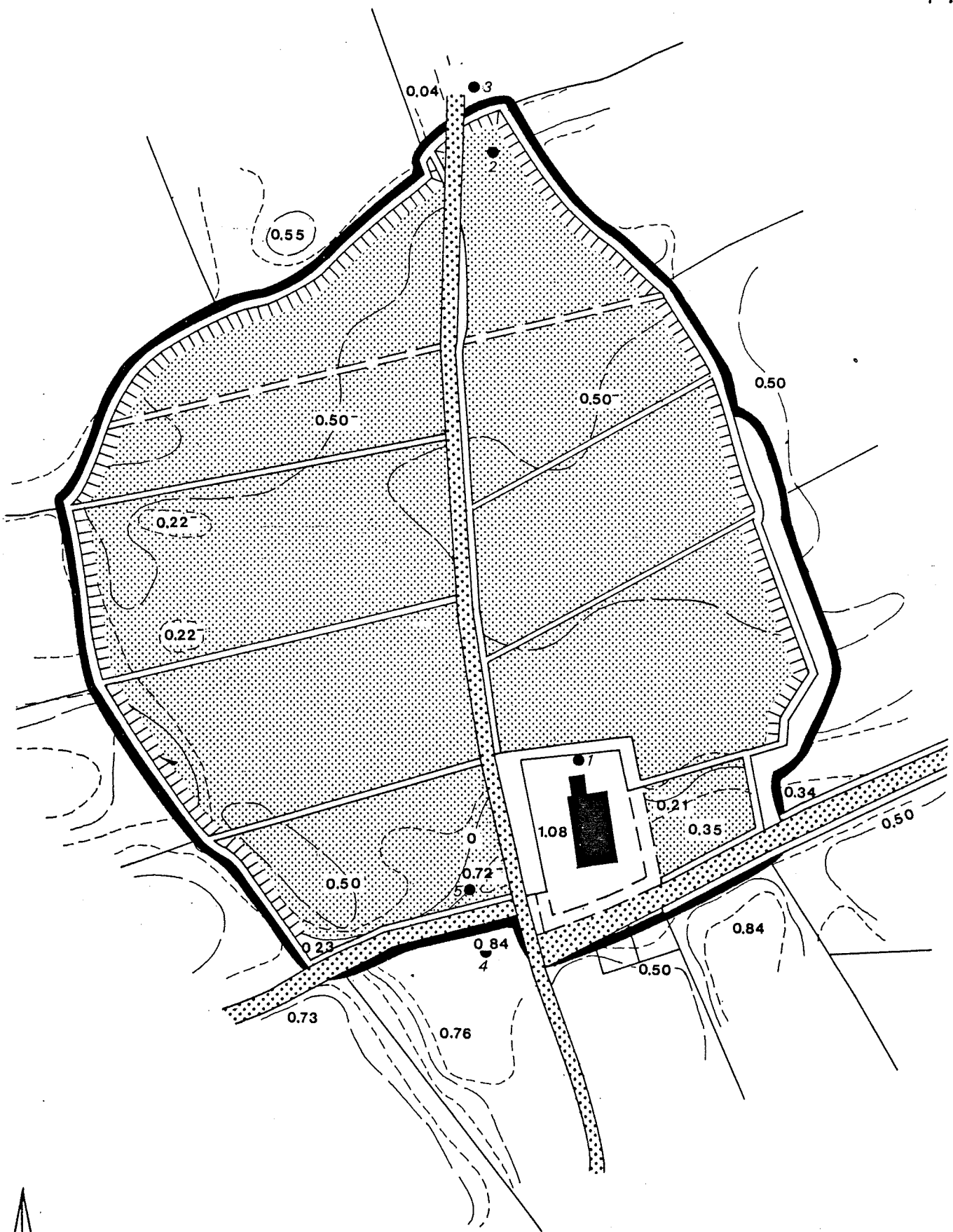


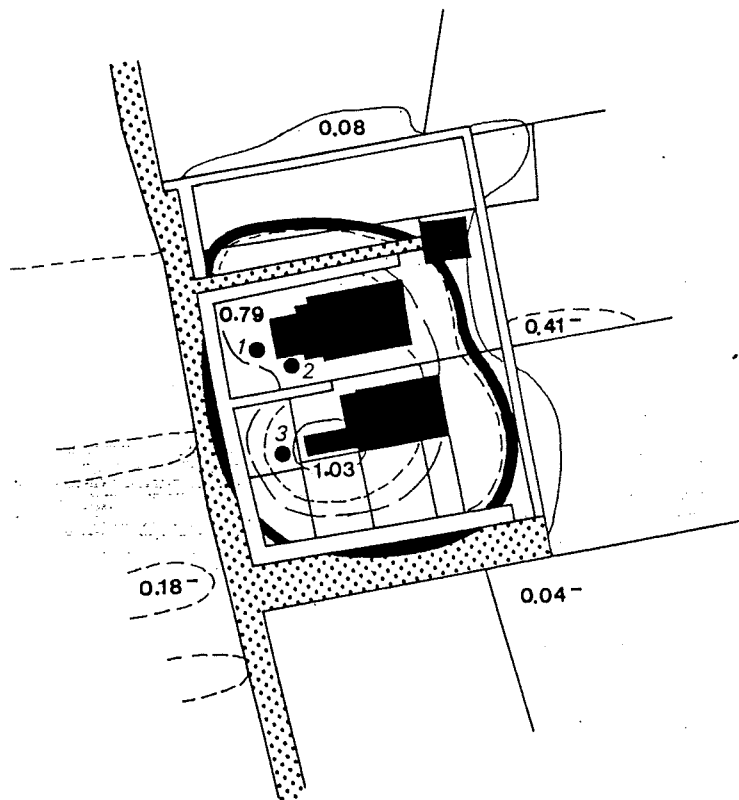


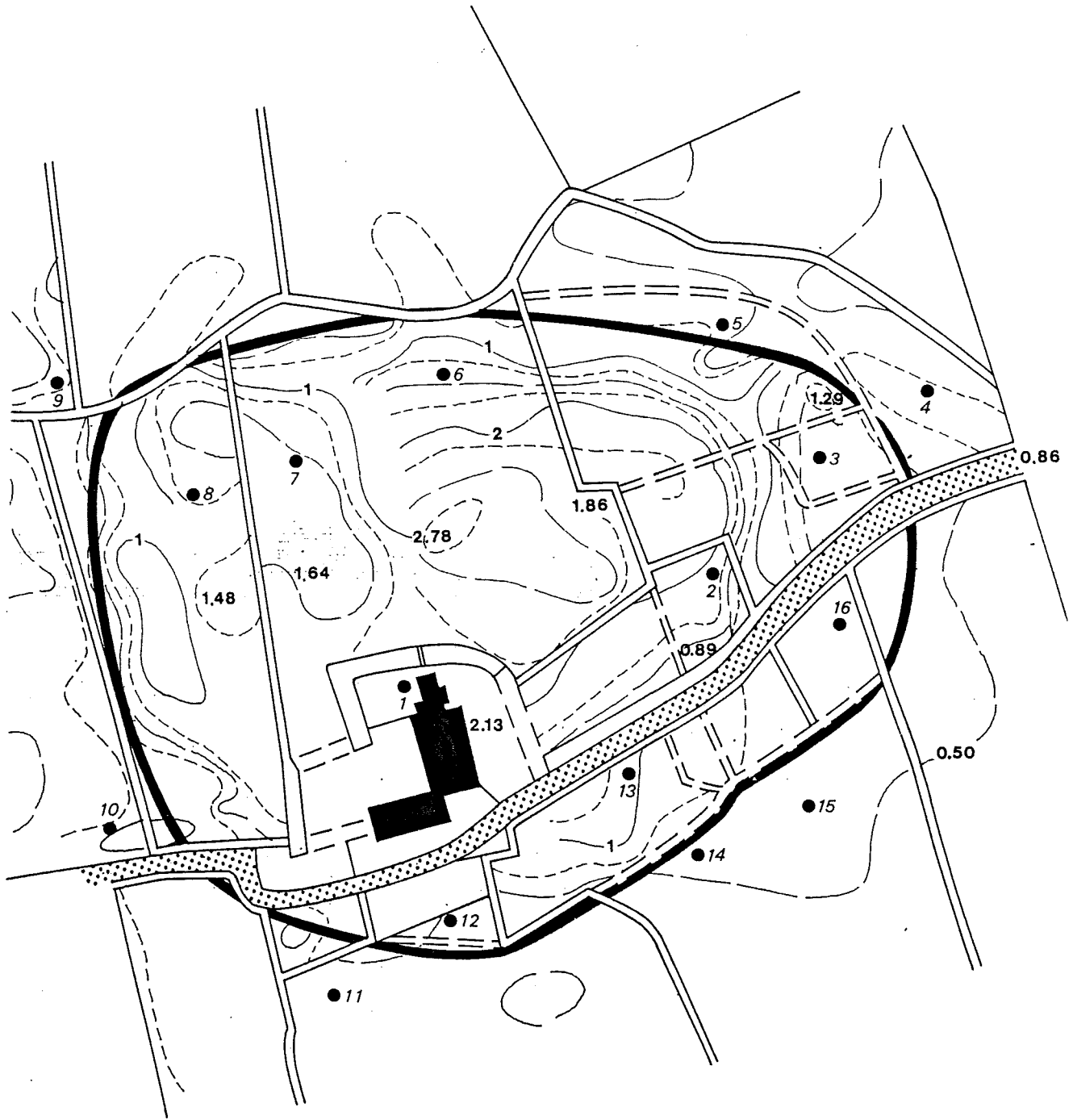


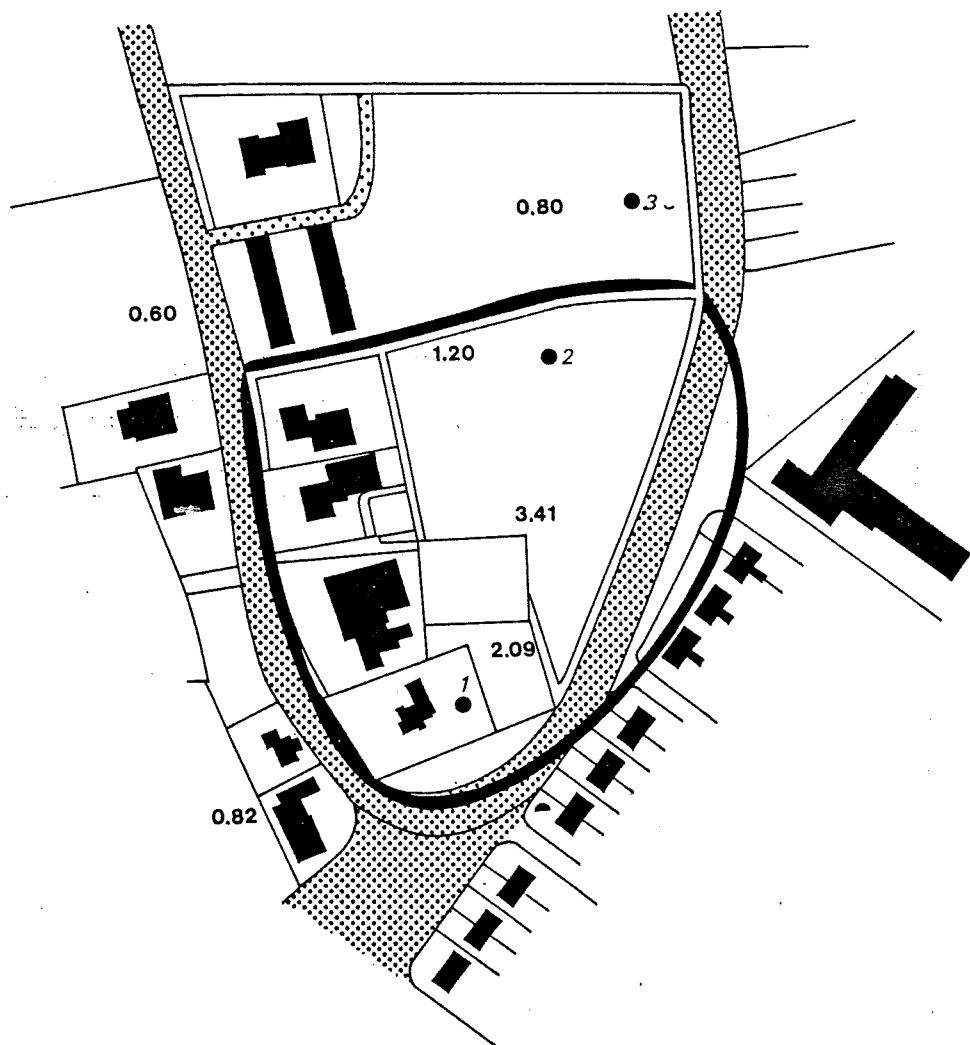


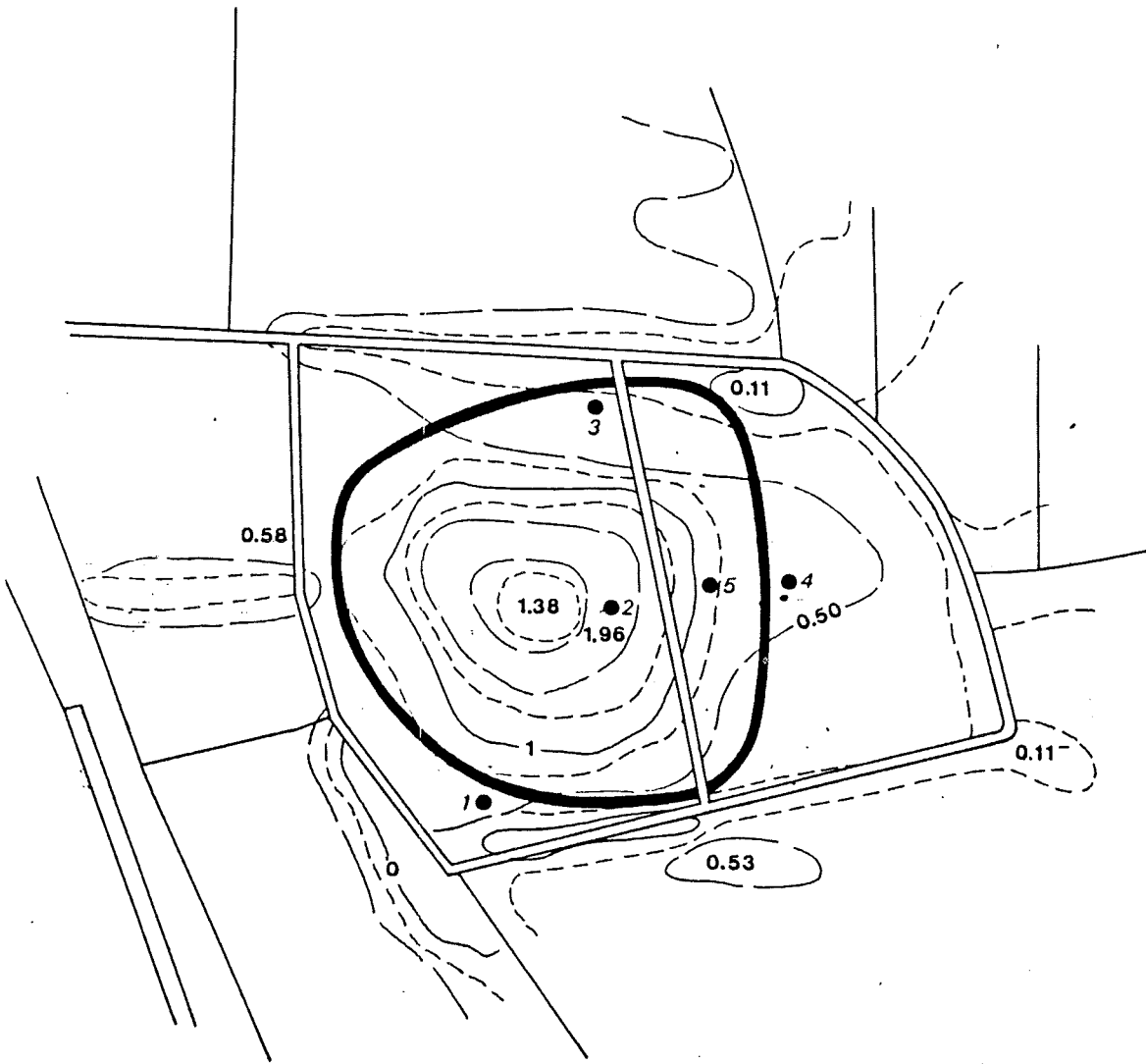






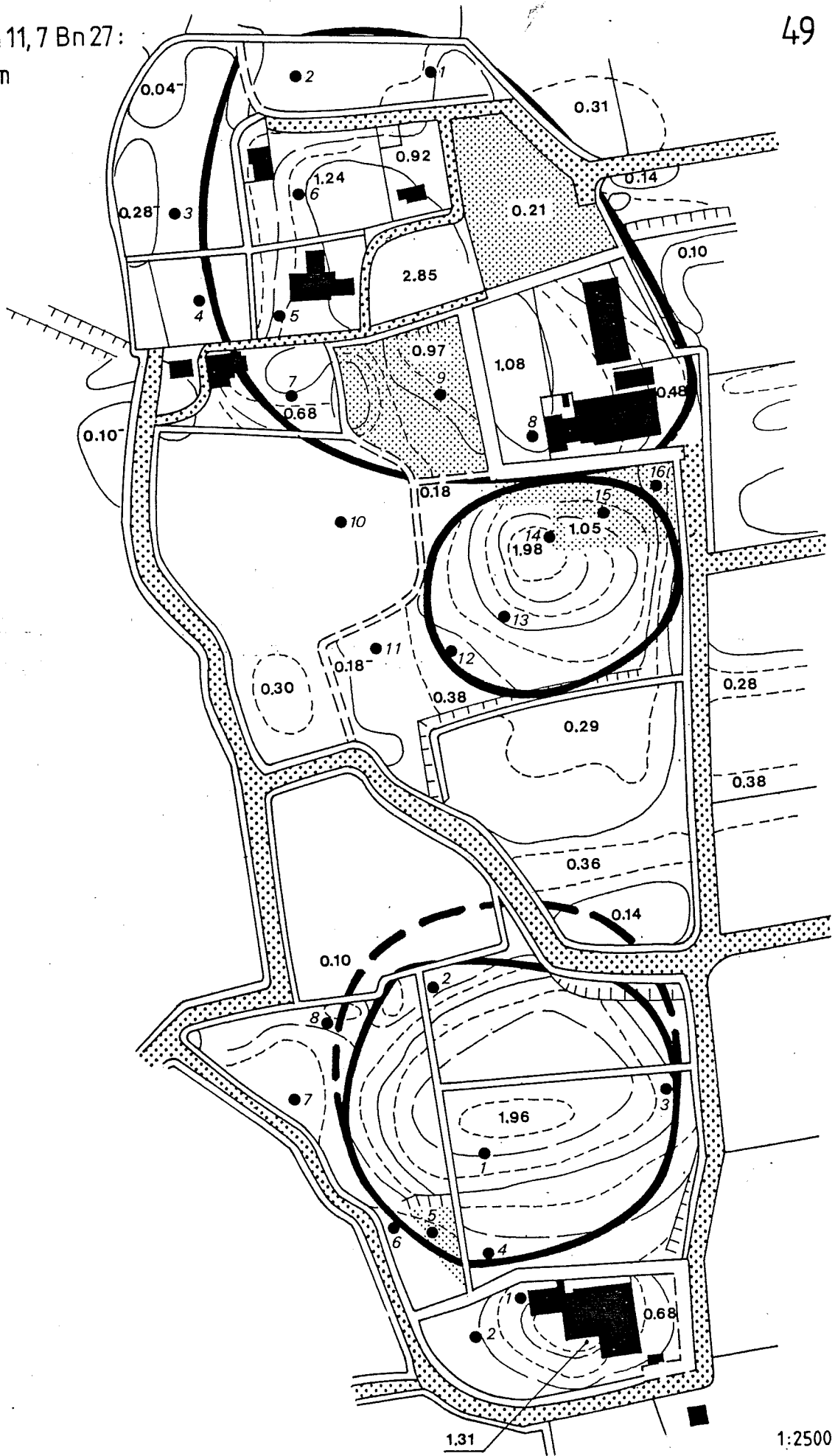






7 Bn10, 7 Bn11, 7 Bn27:
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