

**CONTAINS  
PULLOUTS**

**Appendix 1. Sites with slip decorated pottery.**

Format of entries in the list:

Site number Site name District

Site type

Numbers of sherds ('+' indicates that the sample seen was known to be partial)

Sampling status (Total, Partial or Not sampled)

Location of material (at time of fieldwork)

Selective bibliography

1 Stradonice okr. Beroun

Oppidum

735 sherds

Total

National Museum Prague

Příč 1906, Břeň 1971, 1976 Rybová and Drda 1986, 1989, Collis 1984b

2 Závist okr. Prague

Oppidum

8 sherds (+)

Partial

Archeologický ústav C.S.A.V. Prague

Motyková et al 1978, 1982, 1984, 1986, 1990, Břeň 1971, 1976

3 Nevězice okr. Pisek

Oppidum

2 sherds

Total

Archeologický ústav C.S.A.V. Prague

Dubský 1949, Břeň 1971, 1976, Drda 1987.

4 Hrazany okr. Sedlčany

Oppidum

14 sherds (+)

Not sampled

Archeologický ústav C.S.A.V. Prague

Jansová 1965, 1966, 1986, 1988.

5 České Lhotice okr. Nasavrky

Oppidum

10 sherds

Total

Archeologický ústav C.S.A.V. Prague

Princ 1981, 1986.

6 Třísov okr. České Krumlov

Oppidum

178 sherds

Total

National Museum, Prague

Břeň 1966.

7 Úhošť okr. Chomutov

Oppidum (?)

? 2 sherds

Not sampled

Not known

Waldhauser 1970, 1984a, b.

8 Sedlo okr. Sušice  
Hillfort (castellum)  
2 sherds  
Total  
Sušice Museum  
Dubský 1949, Waldhauser 1984.

9 Zvíkov okr. Písek  
Hillfort  
Not sampled  
Not known  
Waldhauser 1984 Michálek 1978

10 Čertova Ruka okr. Turnov (also known as Mašov)  
Hillfort (?)  
2 sherds  
Total  
Turnov Museum  
Břeň 1974, Waldhauser 1984b

11 Kolo okr. Kolín  
Hillfort  
Not known  
Not sampled  
Not known  
Sedlaček 1981, Waldhauser 1984b

12 Kašperske Hořy okr. Písek  
Undefended settlement  
1 sherd  
Total  
Not known  
Waldhauser pers. comm

13 Skaly okr. Písek  
Undefended settlement  
1 sherd  
Total  
Strakonice Museum  
Fröhlich 1985.

14 Lažiste okr. Písek  
Undefended settlement  
4 sherds  
Total  
Písek Museum  
Michálek 1981.

15 Kbelnice okr. Strakonice  
Undefended settlement  
1 sherd  
Not sampled  
Material lost  
Dubský 1925, Bren 1973.

## 16 Třebhostice okr. Strakonice

Undefended settlement

1 sherd

Not sampled

Material lost

Dubský 1949, Břeň 1973.

## 17 Chlum Bedědovice okr. Strakonice

Undefended settlement

Not known

Not sampled

Material lost

Břeň 1973

## 18 Kuřimany okr. Strakonice

Undefended settlement

2 sherds

Total

National Museum, Prague

Dubský 1949, Jansová 1963 Břeň 1973.

## 19 Nova Ves okr. Kolín

Undefended settlement

1 sherd

Total

Kolín museum

Jansová 1963.

## 20 Cernhýnky okr. Kolín

Undefended settlement

1 sherd (minimum)

Not sampled

Material lost

Filip 1956, Jansová 1963, Břeň 1973.

## 21 Dobřichov Pichora okr. Kolín

Undefended settlement and cemetery (Roman)

1 vessel (minimum)

Not sampled

Material lost

Břeň 1973.

## 22 Polepy okr. Kolín

Undefended settlement

1 sherd

Total

Kolín museum

Filip 1956, Břeň 1973.

## 34 Radovesnice okr. Kolín

Undefended settlement

Not known

Not sampled

Not known

Sedláček pers. comm.

23 Lusec Hořin okr. Mělník  
 Undefended settlement (?)  
 1 vessel  
 Not sampled  
 National Museum Prague  
 Břeň 1973

24 Vliněves okr. Mělník  
 Open settlement  
 4 sherds  
 Melnik Museum  
 Total  
 Břeň 1973, Sklenář pers. comm.

25 Oploty okr. Louny  
 Undefended settlement  
 1 sherd  
 Not sampled  
 Not known  
 Holodňák 1987, unpublished.

26 Postoloprty okr. Louny  
 Undefended settlement  
 1 vessel  
 Not sampled  
 Not known  
 Holodňák 1987, unpublished.

27 Třiskolupy okr. Louny  
 Undefended settlement  
 1 vessel  
 Not sampled  
 Zateč Museum  
 Holodňák 1987, unpublished.

28 Podbořany okr. Louny  
 Undefended settlement  
 1 vessel  
 Not sampled  
 Not known  
 Holodňák 1987 unpublished

29 Radovesice okr. Teplice  
 Undefended settlement  
 2 sherds  
 Not sampled  
 Teplice Museum  
 Waldhauser in preparation, Holodňák 1987, unpublished.

30 Bžany okr. Teplice  
 Undefended settlement  
 1 vessel  
 Not sampled  
 Teplice Museum  
 Holodňák 1987, unpublished.

31 Střekov okr. Ústí nad Labem

Undefended settlement

1 vessel

Not sampled

Not known

Holodňák 1987, unpublished.

115 Brany Naši okr. Chomutov

Undefended settlement

Not known

Not sampled

Archeologický ústav C.S.A.V. Prague

Salač pers. comm. Motykova 1986

110 Vikletice 1 okr. Chomutov

Undefended settlement

5 sherds

Not sampled

Archeologický Ústav C.S.A.V. (Most)

Drda 1977

32 Vikletice 2 okr. Chomutov

Undefended settlement

1 sherd

Partial

Archeologický ústav C.S.A.V. (Most)

Waldhauser 1984a, b.

33 Lomazice okr. Chomutov

Undefended settlement

1 sherd

Not sampled

Archeologický ústav C.S.A.V. (Most)

Holodňák 1987, unpublished

114 Soběsuky okr. Chomutov

Undefended settlement

Several vessels (excavation in progress)

Not sampled

Zateč Museum

Holodňák unpublished, pers. comm.

35 Lovosice okr. Litoměřice

Undefended central site

8 sherds

Partial

Litoměřice District Museum

Zapotocký 1973 Salač 1987, pers.comm. Waldhauser pers.comm. Holodňák 1987, Unpublished

36 Kadaň-Jezerka okr. Chomutov

Undefended settlement

1 vessel

Not sampled

Not known

Břeň 1973, Holodňák 1987, unpublished, Kruta 1972.

116 Letky okr. Prague  
 Grave  
 1 vessel  
 Not sampled  
 National Museum Prague  
 Břeň 1973 Jansová 1963

Uhřetice okr. Chrudím  
 Grave  
 1 vessel  
 Not sampled  
 National Museum Prague  
 Břeň 1973 Jansová 1963

Strakonice okr. Strakonice  
 Grave  
 1 vessel  
 Not sampled  
 National Museum Prague  
 Dubský 1949, Břeň 1973 Jansová 1963.

37 Staré Hradisko okr. Prostejov  
 Oppidum  
 578 sherds  
 Total  
 Archeologický ústav C.S.A.V. Brno  
 Meduna 1970, 1971

112 Hostýn okr. Kroměříž  
 Oppidum  
 Not Known  
 Not sampled  
 Unknown  
 Ludikovský 1973a, 1981

38 Brno - Horní Herspice okr. Brno  
 Undefended site  
 1 vessel  
 Total  
 Moravske Muzeum Brno  
 Meduna 1960, 1980a,b, 1981

113 Brno - Obrany okr. Brno  
 Undefended site  
 1 sherd  
 Total  
 Moravske Muzeum Brno  
 Meduna 1980 a, b

39 Vicemilice okr. Výškov  
 Undefended settlement  
 Not sampled  
 Unknown  
 Not known  
 Meduna 1980a, b

- 40 Holubice okr. Vyskov  
Undefended settlement  
3 sherds  
Total  
Moravske Muzeum Brno  
Meduna 1980a, b
- 41 Milovice okr. Břeclav  
Undefended settlement  
2 sherds  
Partial  
Freising collection  
Meduna 1980a, b
- 42 Klentnice okr. Břeclav  
Undefended settlement  
2 sherds  
Total  
Archeologicky Ústav C.S.A.V.Brno  
Meduna 1960, 1980a, b
- 43 Otaslavice okr. Prostejov  
Undefended site  
1 sherd  
Total  
Prostejov museum  
Meduna 1980a, b.
- 44 Drzovice okr. Prostejov  
Undefended settlement  
1 sherd  
Total  
Prostejov museum  
Meduna 1980a, b.
- 45 Ptení okr. Prostejov  
Open, (?) extensive settlement  
1 vessel  
Not sampled  
National Museum Prague  
Meduna 1980a, b, Venclová 1990
- 46 Hrubcice okr. Prostejov  
Undefended settlement  
2 sherds  
Total  
Olomouc museum  
Meduna 1980a, b
- 47 Křenovice okr. Přerov  
Undefended settlement  
2 sherds  
Total  
Archeologicky ústav C.S.A.V. Brno  
Meduna 1980 a,b



48 Sřelice okr. Znojmo  
 Defended site (?)  
 Not known  
 Not sampled  
 Private collection  
 Meduna 1980a, b

49 Bořitov okr. Blansko  
 Undefended settlement  
 1 sherd (+)  
 Partial  
 Archeologicky Ustav C.S.A.V. Brno  
 Souchopová and Ludikovský 1972, Ludikovský 1973b, Meduna 1980a, b Čiřmář 1990

50 Bratislava okr. Bratislava  
 Central site  
 Not known  
 Partial  
 Slovak National Museum  
 Novotný 1976, Zachar 1981, 1982a, b, 1987, Zachar and Rexa 1988, Collis 1984 Kuzmová 1980

51 Devín okr. Bratislava  
 Central site  
 Numerous sherds  
 Not sampled  
 Bratislava Municipal Museum  
 Plachá and Pieta 1986 Zachar 1987

52 Plavecké Podhradie  
 Oppidum  
 1 vessel  
 Not sampled  
 Slovak National museum  
 Paulik 1976

53 Pobedim okr. Trenčín  
 Undefended site  
 1 sherd  
 Total  
 Archeologicky ústav S.A.V.  
 Pieta pers. comm.

54 Nitra Hrad okr. Nitra  
 Central site  
 3 sherds  
 Partial  
 Archeologicky ústav S.A.V. Nitra  
 Kuzmová 1980, Pieta pers. comm., Bujna pers. comm.

55 Nitra - Mikov Dvor okr. Nitra  
 Undefended site  
 2 sherds (+)  
 Partial  
 Archeologicky ústav S.A.V. Nitra  
 Pieta 1982b Cumberpatch and Pawlikowski 1988, Fusek in prep.

56 Nitriansky Hrádok okr. Šurany  
 Central site (?)  
 21 sherds  
 Total  
 Archeologický ústav S.A.V. Nitra  
 Točík 1959

57 Chotín okr. Komarno  
 undefended settlement  
 Not known  
 Not sampled  
 Not known  
 Kuzmova 1980

58 Iža okr. Komárno  
 undefended site  
 11 sherds  
 Total  
 Archeologický ústav S.A.V. Nitra  
 Kuzmová 1980

59 Komárno okr. Komárno  
 Central site  
 26 sherds  
 Total  
 Komárno Municipal Museum  
 Pieta, Trugly pers. comm.

60 Kamenín okr. Sturovo  
 undefended site  
 Not known  
 Not sampled  
 Not known  
 Pieta 1982

61 Uľany nad Zitavou okr. Šurany  
 undefended settlement (Late La Tene pit)  
 1 sherd  
 Not sampled  
 Not known  
 Kuzmová 1980

62 Krnáč okr. Topolčany  
 defended site  
 1 sherd  
 Not sampled  
 Not known  
 Benadik 1967 Kuzmová 1980

63 Púchov okr. Povážska Bystrica  
 defended site  
 2 sherds  
 Total  
 Archeologický ústav S.A.V. Nitra  
 Pieta 1982

64 Prosné okr. Povazska Bystrica  
 Undefined (?) site with ritual area  
 2 sherds  
 Total  
 Archeologicky ústav S.A.V. Nitra  
 Pieta and Moravčík 1980

65 Divinka okr. Žilina  
 Hillfort  
 2 sherds  
 Total  
 Archeologicky ústav S.A.V. Nitra  
 Petrovský-Sichman 1957

66 Vyšný Kubín okr. Dolny Kubín  
 Defended site  
 26 sherds  
 Total  
 Oravske Podzamok  
 Čaplovič in prep., Pieta 1982a

67 Liptovská Sielnica okr. Liptovsky Mikulaš  
 Undefined site associated with a hillfort  
 1 sherd  
 Not sampled  
 Liptovsky Mikulaš District Museum  
 Pieta 1982a

68 Kvačany okr. Liptovský Mikulaš  
 Defended site  
 3 sherds  
 Total  
 Archeologicky ústav S.A.V. Nitra (Liptovská Mara)  
 Pieta 1982a

69 Liptovská Stiavnica okr. Liptovsky Mikulaš  
 Defended site  
 1 sherd  
 Not sampled  
 Liptovsky Mikulaš District Museum  
 Pieta 1982a

70 Liptovská Mara okr. Liptovsky Mikulaš  
 Central site including ritual site  
 49 sherds (+)  
 Partial  
 Archeologicky ústav S.A.V. Nitra (Liptovská Mara)  
 Pieta 1967, 1971, 1972, 1982a

71 Podturen - Bašta okr. Liptovsky Mikulaš  
 Defended site  
 Not known  
 Not sampled  
 Not known  
 Pieta 1982a

72 Lopusne Pažite okr. Žilina  
 Open settlement associated with hillfort  
 1 sherd  
 Not sampled  
 Not known  
 Pieta pers. comm.

73 Kežmarok okr. Poprad  
 Hillfort  
 1 vessel  
 Not sampled  
 Material lost  
 Pieta 1982a

74 Spišské Podhradie okr. Spišské Nova Ves  
 Defended site  
 Not known  
 Not sampled  
 Material lost  
 Pieta 1982a

75 Machalovce okr. Janovce  
 Defended site (?)  
 2 sherds  
 Partial  
 Poprad Regional Museum and Archeologicky ústav S.A.V. Nitra (Spisska Nova Ves)  
 Javorsky pers. comm.

76 Batizovce okr. Poprad  
 Middle La Tene cemetery  
 1 sherd  
 Not sampled  
 Not known  
 Budinský-Kricka 1965

77 Zemplín okr. Trebišov  
 Defended site with extra mural settlement  
 219 sherds (+)  
 Partial  
 Archeologicky ústav S.A.V. (Nitra and Kosice)  
 Benadik 1964, 1965, Gašaj and Jurecko 1983.

78 Michalovce okr. Michalovce  
 undefended settlement  
 Not known  
 Not sampled  
 Not known  
 Benadik 1965

79 Hran okr. Trebišov  
 undefended settlement  
 Not known  
 Not sampled  
 Not known  
 Benadik 1965

80 Brehov okr. Trebišov  
Undefended settlement  
Not known  
Not sampled  
Not known  
Benadik 1965

81 Streda nad Bodrogom okr. Streda nad Bodrogom  
Undefended settlement  
Not known  
Not sampled  
Not known  
Benadik 1965

82 Cejkov okr. Trebišov  
Undefended settlement  
Not known  
Not sampled  
Not known  
Benadik 1965

83 Ladmovce okr. Ladmovce  
Undefended settlement  
Not known  
Not sampled  
Not known  
Benadik 1965

84 Turbia pow. Kraków  
Undefended settlement  
3 sherds  
Total  
Muzeum Archeologiczne Krakowie  
Woźniak 1970a, b.

85 Krzesławice pow. Nowa Huta  
Undefended settlement  
167 sherds  
Total  
Muzeum Archeologiczne Nowej Huty  
Poleska and Tobała 1984, 1987, 1988.

86 Biezanów pow. Drozdowice  
Undefended settlement  
3 sherds  
Total  
Woźniak 1970a, b, Reguła 1967.

87 Bolen pow. Kraków  
Undefended settlement  
10 sherds  
Total  
Muzeum Archeologiczne Krakowie  
Woźniak 1970a, b.

88 Mogiła pow. Kraków  
 Undefended settlement  
 144 sherds  
 Total  
 Muzeum Archeologiczne Nowej Huty  
 Woźniak 1970a, b.

89 Pleszów pow. Kraków  
 Undefended settlement  
 70 sherds  
 Total  
 Muzeum Archeologiczne Nowej Huty  
 Woźniak 1960, 1970a, b.

90 Kryspinów pow. Kraków  
 Cemetery  
 1 sherd  
 Not sampled  
 Uniwersytet Jagiellonski, Instytut Archeologiczne  
 Godłowski 1971, 1972, 1973, Godłowski and Maczynska 1972, Godłowski and Madyda 1976.

91 Podleże pow. Kraków  
 Undefended settlement  
 239 sherds  
 Total  
 P.A.N.Igołomia  
 Potocki 1966, Woźniak 1970a, b

92 Przemęcany pow. Prowowie  
 Undefended settlement  
 2 sherds  
 Partial  
 Uniwersytet Jagiellonski  
 Woźniak 1970a, b, 1981.

93 Targowisko pow. Bochnia  
 Undefended settlement  
 8 sherds  
 Total  
 Woźniak 1970a, b.

94 Tyniec - Opactwo pow. Kraków (Tyniec - Kłostor)  
 Settlement (?defended)  
 17 sherds  
 Partial  
 Lenczych 1956, Woźniak 1970a, b, pers. comm.

95 Tyniec - Zawawozie pow. Kraków  
 Open settlement  
 10 sherds  
 Partial  
 Kraków - Wawel  
 Woźniak pers. comm.

96 Wieliczka pow. Kraków  
 Undefended site - Salt production  
 13 sherds  
 Partial  
 Wieliczka Museum  
 Reguła 1969

97 Wyciąże pow. Kraków  
 Undefended settlement  
 4 sherds  
 Total  
 Muzeum Archeologiczne Nowej Huty  
 Woźniak 1972

98 Barycz pow. Bochnia  
 Open settlement  
 1 sherd  
 Not sampled  
 Not known  
 Woźniak pers. comm.

99 Kunice pow. Kraków  
 Undefended settlement  
 1 sherd  
 Not sampled  
 Not known  
 Woźniak 1970a, b, 1971.

100 Pełczyska pow. Pinców  
 Undefended settlement  
 10 sherds  
 Not sampled  
 Not known  
 Woźniak 1970a, b

101 Poznachowice Górne pow. Myslenice  
 Undefended settlement  
 1 sherd  
 Not sampled  
 Not known  
 Cabalska 1978

102 Dalewice pow. Proszowice  
 Undefended settlement  
 3 sherds  
 Not sampled  
 Warsaw P.A.N. (?)  
 Gromnicki 1959, Woźniak 1970a, b

103 Cło pow. Kraków  
 Undefended settlement  
 1 sherd  
 Not sampled  
 Not known  
 Woźniak 1970a, b

104 Tabán-Gellérthegy, Budapest  
 Central site  
 374 sherds  
 Total  
 Hungarian National Museum, Budapest  
 Bónis 1969, Peto 1979, Nováki and Péto 1988

105 Bekasmegyér, Budapest  
 Undefended settlement  
 94 sherds  
 Total  
 Budapest City Museum  
 Unpublished

106 Esztergom, Esztergom  
 Central site  
 238 sherds  
 Total  
 Balassa Balint Museum, Esztergom  
 Keleman forthcoming, 1987, Kovacs, Petres and Szabó 1987.

107 Velemszentvid  
 Oppidum  
 2 sherds  
 Not sampled  
 Sopron District Museum  
 von Miske 1908, Ferkete pers. comm.

108 Szazhallombatta  
 Central site  
 8 sherds  
 Not sampled  
 Unpublished  
 Kovacs pers. comm.

109 Fleissig Collection Unprovenanced  
 3 sherds  
 Total  
 Hungarian National Museum  
 Unpublished  
 Wollack pers. comm.

Sites listed by Wozniak (1970 and pers. comm.) from which material was unavailable for study:

Igołomnia	2 sherds
Kraków - Wawel	?1 sherd
Ratajów	1 sherd
Kraków Witkowice	1 sherd
Zodowice	1 jar and 2 sherds
Cieszyn	1 sherd
Mała Wies	1 vessel (cemetery)
Inowrocław	1 sherd
Gdów	1 sherd
Opolie	1 sherd from cemetery



## Appendix 2. Pottery production sites

The list includes a selective bibliography only. Further references can be found in those cited.

### Bohemia and Moravia.

Staré Hradisko. okr. Prostějov

Meduna 1970a, b.

Four kilns, two well preserved and two damaged within the area of the oppidum. Circular, updraft types.  
Date: La Tène C2 - D

Ceské Lhotice okr. Chrudim

Princ 1981, 1986.

Stone lined oval kiln with evidence of extensive repairs and rebuilding. The kiln was located in an area with a considerable amount of evidence for other industrial activities, including metallurgy. The oppidum as a whole is dated to between 150 and 50 BC.

Dolní Brezany. okr. Prague.

Princ and Skružný 1977, Motyková 1986.

Princ and Skružný refer to a kiln lying close to the oppidum of Závist. The connection with the oppidum is unclear. Motykova mentions 2 kilns, on an undefended Early La Tène site 3.5 km from Závist. Associated with possible elite residence.

Lhotka - Lovosice. okr. Litoměřice

Zapotocký 1973, Filip 1956, Princ and Skružný 1977, Salac 1987, 1990b, Fröhlich, Waldhauser and Salač unpublished.

Excavations in this area have revealed a number of kilns; different authors quote different numbers in various locations. Fröhlich, Waldhauser and Salač mention 6 kilns of vertical updraught type at Lovosice as do Princ and Skružný, Filip (1956) and Zapotocký (1973). In addition Princ and Skružný also refer to between 6 and 15 kilns at Lhotka nad Labem, all dating to the 1st century BC. The confusion in the numbers is due in part to the age of the excavations and the poor standard of recording (Salac pers.comm.). Unfortunately, although the locations of some of these kilns are marked on maps of the area (Figure 2.2) no details are available of sequence, contemporaneity or date of use. Nor is it clear what these kilns were producing. Documented kilns are of the normal double flue updraft type.

Milovice okr. Mikulov.

Princ and Skružný 1977, Meduna 1980, Freising 1984, Kuzmová 1980, Čížmář and Meduna 1985.

This has been suggested as a possible example of a horizontal draught kiln (Meduna 1980), but the excavator's description (Freising 1984) seems to refer to a typical updraught type. Kuzmová's illustration (1980: Figure 6) appears to show two rectangular fire chambers served by the same stoke pit. A horizontal draught kiln of this date would, to the best of my knowledge, be unique in temperate Europe. The date is uncertain, but 2 sherds of white painted ware were associated with the kiln. Čížmář and Meduna have suggested (1985:91-2) that this is one of two sites in Moravia (the other being Staré Hradisko) producing vessels with incised designs on the underside of the base.

Strachotín okr. Břeclav

Čížmář 1987.

Seven kilns associated with a settlement of 17 huts and various other features. The kilns are of updraught type, most with two fire chambers, but some showing some variation. Feature 29 consists of three kilns sharing a single stoke pit. This feature is dated to La Tène C1, while kilns 227, 5 and possibly 228 seem to belong to the final phase of the site (La Tène D1).

Brčokoly okr. Chrudim.

Princ and Skružny 1977.

Circular, double chambered updraught kiln. Dated to the late La Tène (late 2nd - early 1st century BC). Analysis of the kiln walls indicated a firing temperature of between 400 and 800 degrees centigrade.

Cerhýnky okr. Kolín

Princ and Skružny 1977, Filip 1956.

Reference to a workshop and kiln. Late 2nd - 1st century BC. Known only from one piece of broken grating (Waldhauser pers.comm).

Radovesice okr. Teplice

Princ and Skružny 1977, Waldhauser in prep.

A feature, dated by associated pottery to La Tène B2, which contained no grate, but otherwise resembled a kiln (Waldhauser pers.comm).

Hořany okr. Most

Filip 1956:344, Princ and Skružny 1977.

One kiln excavated in 1930 and dated to the Late La Tène.

Bilina okr. Most

Princ and Skružny 1977

A single kiln associated with a La Tène settlement.

Velké Opatovice okr. Blansko.

Princ and Skružny 1977, Meduna 1980a, b.

A single circular, double flue, updraught kiln.

Jiřikovice okr. Brno - Venkov.

Princ and Skružny 1977.

Five kilns have been identified at this site, possibly dating to the Roman period.

Mohelnice okr. Šumperk

Princ and Skružny 1977, Meduna 1980a, b.

A single kiln of normal updraught design, but rather larger than is usual.

Otaslavice okr. Prostejov

Meduna 1980a, b.

A poorly preserved example, apparently stone lined. The dating is insecure.

Brno - Horní Hespice okr. Brno

Princ and Skružny 1977, Meduna 1980, Duhamel 1979.

A single circular updraught kiln, double flue. Rectangular stoke pit. Damaged by drainage work. Possible, but unprovable, association with a slip decorated bowl.

Polesovice okr. Uherške Hradiste.

Princ and Skružny 1977.

A La Tène kiln associated with a settlement including Hallstatt - La Tène occupation.

Brumovice okr. Břeclav

Princ and Skružný 1977.

Two La Tène kilns have been recorded from this site, but details of both the site and the kilns are sparse.

Komořany okr. Výchov

Ludikovský 1964.

The excavation of a hut revealed features in the beaten earth floor which were interpreted by the excavator as the remains of the site of a kick wheel. A clay feature was interpreted as a dump of prepared raw material.

Velké Hostěradky okr. Břeclav

Ludikovský 1964, Čížmář 1984.

A small building contained sherds of unfired pottery and was interpreted as a drying shed. Subsequent excavations (Čížmář 1984) have produced fragments of graphite, possibly intended as temper or the debris from the processing of clay.

Tvarožna okr. Brno - Venkov

Ludikovský 1964.

Amongst the finds was a bone stamp apparently for decorating pottery of the type used to decorate Early La Tène pottery.

## Slovakia.

Šarovce okr. Levice.

Filip 1956, Princ and Skružný 1977, Kuzmová 1980, Unpublished documentation - Archeologické Ústav - Nitra.

Several kilns were excavated at this site and have been dated by Filip to the 2nd - 1st century BC. Kuzmová has subsequently suggested that two of these belong to the Early La Tène, while the third is later (1980:323).

Photographs in the archives at Nitra show a single circular kiln in one trench (1-6), and two others in a second trench (H 10), also circular with the normal type of double flue. The relationship of the latter two kilns is impossible to determine from the information available.

Presov okr. Presov.

Princ and Skružný 1977, unpublished documentation - Archeologické Ústav - Nitra.

Two Late La Tène kilns, two Roman period kilns and a workshop, the latter dated to the late 1st century BC. The circumstances of the excavation, rescue, carried out by an amateur archaeologist, precluded large scale work. The kilns were located in the same area and were found in the same trench. The relationships of the kilns to each other and to other features were obscured by the size of the trench. Both La Tène kilns were of the normal double flued type and appear from the photographs to have been slightly larger than the Roman ones.

Čataj okr. Bratislava.

Ožďan and Hecková 1987.

Two kilns sharing the same stoke pit, apparently constructed for simultaneous use. The site, consisting of a hut and the kilns, has been interpreted as a workshop situated some distance from the village (no other features having been found in spite of extensive trenching). Fragments of graphite, found in the hut originate in the Český Krumlov area (Southern Bohemia). The kilns are virtually identical to those found at Šarovce. Dating, on the basis of the pottery, brooches and a piece of a saponelite bracelet, is to La Tène C1.

Nitra - Mikov Dvor okr. Nitra.

Pieta pers.comm.

Two kilns containing 'Dacian' material in the fill. Nitra - Mikov Dvor is predominantly a 'Dacian' site, though it has also produced La Tène material including slip decorated pottery. The site is dated to La Tène C - D.

Horné Obdokovce okr. Topolčany

Princ and Skružný 1977, Benadík 1960, Unpublished documentation Archeologické Ústav - Nitra. A La Tène kiln of the normal type, partially destroyed before excavation by building work.

Bratislava okr. Bratislava

Janšák 1953, 1955, Zachar 1982.

Six locations in Bratislava have been identified as kiln sites, one of them containing 4 kilns. Gottwaldovo Nám.

Four kilns - Two (possibly three) were rectangular and one, oval. All date to the Late La Tène, contemporary with the principle occupation of the site.

Primacialne Nám.

Hviezdoslavovo Nám.

Stefanivicová 3

Michalská 10

Radicna Veza

Kilns have been found at all these locations within Bratislava (Zachar 1982) but no details have been published beyond the fact that they are within the area of the Late La Tène central site.

Liptovská Mara. okr. Liptovský Mikuláš

Pieta 1982.

Two kilns have been found at Liptovská Mara, one dating to La Tène D1, the other to La Tène D2. Both are of similar form, circular with two fire chambers. The kiln in Liptovská Mara VII was associated with post holes, suggesting the existence of a related structure, and sherds of unfired pottery.

Zemplín. okr. Třebisov

Benadík 1965, 1971, Kotigoroshko 1987

A single kiln was located within the defended area (Benadík 1965: Figure 5), and contemporary with it. Dated to the latter part of the 1st century BC and early 1st century AD.

## Hungary.

Budapest: Tabán - Gellérthegy.

Bonis 1969, Peto 1979.

Bonis (1969:212) gives details of six kilns, excavated during the 1930's and after the Second World War. All were of the subcircular ('pear shaped') type and were dated to the period of occupation of the central site. In 1972 a further seven kilns were located on the lower southern slopes of the hill (Gellérthegy). On the basis of the pottery found in association with them, these kilns seem to date to the later phases of the site and were probably in use during the early part of the Roman occupation of the area (Péto 1979:272-3). An earlier kiln was found in 1975 close to the Gellért Spa. Though the kiln itself was badly damaged, the associated pottery indicated that it dated to La Tène D. Clearly the question of continuity of occupation in the Budapest area is a complex one, but it does seem clear that pottery production, having begun during the La Tène period continued into the period of Roman occupation.

### Budapest - Bekasmegyer

Hunyady 1942, Princ and Skružny 1977, Szabó 1971, Duhamel 1979.

Illustrations (derived from Hunyady) show a normal sub-circular updraft kiln. The site has been dated to the 1st century BC. The site has also produced a considerable quantity of slip decorated pottery, but has not been fully published.

### Sopron - Krautacker

Jerem 1984a, b, Kardos et al. 1985

Three kilns of differing date (Middle La Tène - Late La Tène) located in a lowland settlement associated with the defended site of Sopron - Burgstall. All were of the normal updraft type. Dating is as follows:

Kiln 199 - La Tène B/C

Kiln 151 - La Tène C/D

Kiln 332 - La Tène C/D

It is the opinion of the excavator (Jerem 1984) that the sequence of kilns indicates continuity of production on the site. How this relates to the use of the defended site is not at present clear, as the excavations have concentrated on the Hallstatt areas. The site has provided useful information on technological aspects of production (Kardos et al 1985). Kiln 151 was associated with postholes, a clay pit and a rubbish pit containing wasters (Jerem 1984a, 1984b). Production seems to have concentrated on fine wares, principally bowls and jars.

### Esztergom

Petres 1976, Keleman 1987.

Petres, in her survey of oppida in Hungary (1976), mentions the presence at Esztergom of kilns and a 'potters quarter'. The site is close to sources of good clay, which were exploited in the medieval period as well as during the Late La Tène. Further details are given by Keleman (1987). The site consists of an extensive and probably discontinuous settlement around the two hills. Parallels with Tabán - Gellérthegy are numerous in terms both of the material found and the organisation of the settlement. A single kiln, from Lőwy Sandor Utca, was dated to La Tène D. Keleman does not refer to the 'several kilns' mentioned by Petres (1976:57)

### Biscerd

Princ and Skružny 1977, Bónis 1969

Three kilns of the normal La Tène type, containing La Tène and Roman pottery.

### Gyula

Princ and Skružny 1977

Three kilns probably of Roman date.

### Hatvan - Boldog

Princ and Skružny 1977

A single La Tène kiln.

### Bag

Princ and Skružny 1977

A single Late La Tène kiln.

### Ozd

Princ and Skružny 1977

A single La Tène kiln.

Acsa

Princ and Skružny 1977

There is no firm evidence of pottery production on this site other than some pieces of graphite which may have been intended as temper.

### Poland.

Nowa Cerekwia pow. Głubczyce.

Princ and Skružny 1977, Czerska 1970.

A single kiln was discovered in 1925, dated to La Tène III (ie. La Tène D1). The kiln was of the normal updraft type.

Wyciąże pow. Kraków

Princ and Skružny 1977, Woźniak 1970a, 1970b

A single kiln, dated to La Tène D.

Podłęże pow. Kraków.

Potocki 1966, Woźniak 1970, Princ and Skružny 1977.

A single, circular, updraught kiln with the normal double fire chamber. The kiln and an associated pit contained Late La Tène pottery, including slip decorated.

Wielicka pow. Kraków

Woźniak 1970.

The site has produced no direct evidence of pottery production other than a heap of crushed graphite, presumably intended as temper.

### Appendix 3. Viereckschanzen and other ritual sites.

Mšecké Žehrovice okr. Rakovník

Jansová 1968, Megaw and Megaw 1988, Drda, Waldhauser and Čížmář 1971, Venclová 1986a, 1989.

Location: The site lies in the area between the modern towns of Kladno and Nové Strásece amongst a concentration of settlements involved in iron production and the working of sapropelite.

#### Phase 1:

A domestic settlement covers area to the east of the enclosure and also underlies it. There is evidence of both industrial and agricultural activity. Iron production is indicated by bloomery slag and shallow smelting hearths and ore roasters. A workshop was located containing debris from the working of sapropelite (La Tène C)

Huts are sunken floored rectangular structures measuring 4m x 3m and were similar for both industrial and domestic use. A larger structure (6m x 5m) of undetermined function was constructed with three rows of posts and a central hearth. The settlement is dated to La Tène C1 - C2 (c250 - 110BC).

#### Phase 2:

The earliest phase of the enclosure is represented by a trench apparently from a pallsade which, on the north side, was double or perhaps triple. Little else survives from this early phase.

The main phase consists of a rectangular enclosure divided into two equal parts, each measuring 1 ha. The enclosure was delineated by a bank and ditch, though the ditch does not enclose the whole of the area, being omitted on the northside, where the topography makes it irrelevant. The northern side side of the north rampart of the southern enclosure is marked by a ditch and two explanations have been advanced to account for this:

- 1) That the southern part of the enclosure is earlier than the northern, which was added later.
- 2) That the southern enclosure was of greater importance than the northern.

No gateway has been located but this may be accounted for by the destruction of part of the bank and ditch.

A number of features were excavated within the enclosure. In the north-east corner of the northern enclosure were 2 rectangular huts orientated west to east and parallel to the northern rampart. These were stratigraphically later than the rampart and both were similar in form to normal La Tène domestic structures, though slightly larger than usual. Finds included the normal range of pottery, animal bones, bronze and iron objects and included two dice made of antler. The structures were dated to late La Tène C2 or D1. It is not clear whether these huts were connected with the ritual use of the enclosure or whether they belonged to a subsequent non-ritual phase.

In the north-west corner of the southern enclosure a rectangular building orientated north-south was located. This consisted of two parallel rows of six post holes with a single posthole on the northern side. The southern side was open. The structure measured 9 x 8m and was enclosed by a trench containing deep narrow postholes. This enclosed an area of 14 x 12m. The inner structure was off centre. Few finds were associated with this structure but it contained a considerable quantity of carbonized wood and burnt clay, suggesting destruction by fire. There seem to have been two phases of construction connected with this structure - the earlier being represented by 4 deep pits on the inner corners of the trench. The structure is not an *'umgangstempel'* in the strict sense of the word, the area between posts and trench structures being too narrow to have functioned as an ambulatory.

The stone head was discovered about 30m from the southwestern corner of the enclosure. It seems to have been deposited in a pit with no obvious ritual function and was apparently associated with domestic debris. It is normally considered to have been related to the ritual character of the site. It has been dated archaeologically to between La Tène C1 and D1. In art historical terms it has been the subject of considerable dispute, but Megaw and Megaw (1988:638-9) have suggested that burial took place during the second century BC, and that it was made during the third century BC. They have suggested that the breaking and the burial of the head was related to the inception of some new phase in the activity at Mšecké Žehrovice.

**Kokrdov okr. Rakovník**  
Durdík 1976.

This site was considered for many years to have been a fortification dating from the Thirty Years War. It was excavated in 1974 and finds of Middle La Tène pottery led the excavator to conclude that this was in fact a small La Tène *Viereckschanzen*. The area within the ramparts measures 800 square metres. It lies within the same area of intense La Tène settlement as does Mšecké Žehrovice.

**Češov okr. Slavhostice**  
Waldhauser 1970, Drda Waldhauser and Čížmář 1971

This site is one of two possible *Viereckschanzen* close to the defended site at Cesov which Waldhauser has claimed as an oppidum. To date no excavations have been undertaken at this site to verify the claim. The second site, Markvatice is described below.

**Kucer okr. Písek**  
Drda, Waldhauser and Čížmář 1971

A small *Viereckschanze* lying 4km from Zvíkov and 6km from the oppidum of Nevězice. No other information.

**Markvatice okr. Jičín**  
Drda, Waldhauser and Čížmář 1971, Waldhauser 1975

The *Viereckschanze* is associated with a largely unexcavated settlement, consisting of a large, discontinuous, scatter of pottery and 2 excavated huts. Evidence from the huts suggests industrial activity, one having produced a furnace with a clay floor and a crucible with traces of bronze slag. There were also indications of the existence of a forge, iron slag and the nozzle of a pair of bellows. The settlement seems to have been enclosed by a pallsade, though only a light one. Waldhauser has suggested that the settlement was one of the agrarian-industrial type - an economic centre with a role between that of a village, concerned with the domestic production of goods, and an oppidum.

The *Viereckschanze* itself consisted of four phases all linked to the Late La Tène (Waldhauser 1975).

A post built structure in the southeastern corner, measuring 4.35 x 6.10m, resembled that from Mšecké Žehrovice, and again was too small to be termed an *Umgangstempel*, although the ground plan recalled this design (Schwarz 1962). Fragments of plaster suggested that the walls were decorated with white and black paint. Within the structure burnt grain and charcoal were found.

The grave of a man aged between 50 and 60 was found in the centre of the wall on the eastern side of the *Viereckschanze*. This was a cremation but, unusually, included grave goods, a brooch, a shield boss and resin. The grave was cut into the old land surface and had been damaged by farming activity.

In the northeastern corner of the *Viereckschanze* and parallel with the direction of the wall was a sunken hut with postholes in the shorter sides, a particular form which had not hitherto been found in Bohemian settlements. A number of important finds were associated with it including eleven brooches and the bronze mountings from a wooden vessel. Other features (pits and hollows) within the enclosed area had no analogies on domestic sites and seem to have been connected with the ritual function of the site.

On the basis of the finds (including eighteen brooches, a belt hook and pieces of glass) the site was dated to La Tène C2 (ie the latter part of second century BC and start of first century BC. The shallow ditch enclosing the settlement dated to La Tène D1.

A number of parallels exist with Mšecké Žehrovice:

- 1) The small size and the form of the '*umgangstempel*', with an inner structure set off centre. Both structures seem to have consisted of two phases.
- 2) The presence, within the enclosure, of a hut or huts which were not obviously for ritual use. In both cases the 'temple' and the huts were separate.
- 3) Both sites were associated with pre-existing settlements with functions of greater economic importance than agricultural production.



**Ludeřov okr. Olomouč**

Drda, Waldhauser and Čižmár 1971, Čižmár 1973

A rhomboidal shaped enclosure (115.5 x 109 x 116 x 108 metres) with a gateway 8 metres wide on the eastern side. A pit 4 x 4.5 x 1 metre was located close to the northern wall. Originally the site was thought to date from the Thirty Years War, but on the basis of survey and fieldwalking it seems more likely that it is a *Viereckschanze*. The rampart encloses an area of 12,560 square metres, and has produced Late La Tène pottery, as have Mšecké Žehrovice and Markvatice. The site seems to contain a pit or shaft similar to those which have been excavated in Germany. Čižmár notes that the site lies on the edge of the area of La Tène settlement, as do the oppida in Bohemia and Moravia. He has referred to the possibility of some connection between the two types of site, Ludeřov lying only 14 km from Stare Hradisko.

**Olbramice okr. Olomouč**

Čižmár 1973.

This site has been referred to briefly by Čižmár as being another possible *Viereckschanze* confused with a military site from the Thirty Years War. It measures 88 x 67 x 87 x 52m, but there is little other information regarding it.

**Skripel okr. Beroun**

Jansová 1968, Drda, Waldhauser and Čižmár 1971

A rectangular enclosure measuring 105 x 125m. The rampart is 10 - 12m wide and 2.75m high. The ditch is 11m wide. The original gate is in the northwestern side, and breaks at two corners are apparently later. It has been claimed that the site contains a ritual pit or shaft. No finds were recorded by Jansová from the site itself, but the area has produced an inhumation with a bronze ring (Filip 1956:Figure 18). A gold coin from nearby Lochovice seems to link the area with Central Bohemia and Stradonice.

**Třebesko 1 okr. Příbram**

Jansová 1968, Drda, Waldhauser and Čižmár 1971

The site consists of an enclosing rampart 5-6m wide and 2 m high with a gate on the north-west side. It appears to have been badly damaged since it was first described by Píč in 1903.

**Třebesko 2 okr. Příbram**

Jansová 1968, Drda, Waldhauser and Čižmár 1971

Lying to the south of the modern village and 1.7km from Třebesko 1 this site overlooks a small stream where Píč discovered traces of gold panning (Píč, cited by Jansová, 1968). The enclosure has been largely destroyed, only the eastern corner remaining intact.

**Malovice (Hradiště) okr. Prachatice**

Jansová 1968, Drda, Waldhauser and Čižmár 1971

The enclosed area of this site measures 14,000 square metres and has been dated to the Late La Tène by finds of graphite tempered pottery. It has also produced medieval sherds and Late Hallstatt material. A number of barrows are located nearby and a second *Viereckschanzen* may be associated with these.

**Radětice okr. Písek**

Drda, Waldhauser and Čižmár 1971

A large part of this site has been destroyed (Drda et al 1971:Figure 2), but it appears to have been a relatively large enclosure on the scale of Markvatice and Mšecké Žehrovice.

**Nova Ves okr. Písek**

Drda, Waldhauser and Čižmár 1971, Michálek 1975.

Also known as Tešínov (Drda et al 1971), this site is unusual in that it is associated with an extensive Early Bronze Age barrow cemetery. One enclosure survives together with a stretch of rampart the function of which is unclear.

**Závist okr. Prague**  
**Drda, Waldhauser and Čížmář 1971**

Two possible enclosures of the *Viereckschanzen* type have been identified by Drda et al. at Závist (one on the Acropolis and the other in the Sance area). For the reasons discussed in the text (chapter 2) it seems unlikely that these are *Viereckschanzen* in the strict sense of the term

Two sites in Hungary have been claimed as ritual sites and related by Petres (1972) to the *Viereckschanzen*, although neither display the classic features of this type of site. Two ritual sites in Slovakia, at Liptovská Mara and Prosné have been fully discussed by Pieta (1982) and Pieta and Moravčík (1980).

**Pakozd, district of Fejer**  
**Petres 1972.**

A complex of pits and ditches containing parts of human and animal bodies, a number of which were disarticulated in an apparently deliberate manner. Pottery associated with the bones dated them to the early 1st century AD. The pits may have been surrounded by a series of recut ditches. The site has few of the features of the Czech *Viereckschanzen*.

**Bozsok 'Puszta', district of Vas**  
**Petres 1972.**

A rectangular enclosure measuring 80 x 100 m with a low mound in the centre. No finds are recorded and it is possible that the feature is medieval in date.

**Appendix 4.**

The following is the CLUSTAN programme written to produce the dendrograms used in the analysis of the thin section data.

```
READ DATA, VARIABLES CONT 1-9, CASES x  
  TITLE 'XXXXXXXXXXXXX'
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```
  Data ...
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READ LABELS, CASES
```

```
  Labels ...
```

```
CALCULATE SIMILARITY MATRIX  
HIERARCHY, METHOD WARDS, CLUSTERS MIN x MAX x  
TREE  
STOP
```

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Site	Material	References
Stradonice	11 fragments of moulds	Castelin 1960, Tournaire et al 1982 Rybová and Drda 1989 Woźniak nd.
Závist	20 fragments of moulds from two locations adjacent to Gate D. Five possible coin dies Mould fragments from hut within the Vorburg.	Jansová 1974, Motykova, Rybová and Drda 1978  Čižmář 1989
Hrazany	Two fragments of moulds from a workshop close to gate A.	Jansová 1986 fig. 32:9,4.
Tuchlovice	One fragment of a mould	Sneidrova 1955 cf. Tournaire et al 1982
Staré Hradisko	Ten fragments of moulds Lead trial piece (minim)	Meduna 1970 Collis 1984
Szalacksa	Four die stocks for Kapošťaler or Regöly type coins	Collis 1975 Petres 1976

Table 2.1. Finds related to coin minting in Bohemia, Moravia and Hungary.

<b>Components</b>	<b>Variables</b>
<b>Labour</b>	Division / Organisation Intensity Numbers involved Seasonality
<b>Raw materials</b>	Procurement Processing
<b>Technology</b>	Complexity / Investment Sequence / Techniques of production
<b>Output</b>	Quantity Variability

**Table 3.1. Components and variables comprising a mode of production.**

<b>Components and variables</b>	<b>Household production</b>	<b>Household industry</b>	<b>Individual workshop</b>	<b>Nucleated workshop</b>
<b>Labour Division/organisation</b>	Individual	Individual	Family group	Highly organised
<b>Intensity (Specialisation)</b>	Low	Low	Individual specialisation	High degree of specialised knowledge
<b>Numbers of people involved</b>	Few	Few	Rising (Family group)	Specialised workers - internal hierarchy
<b>Seasonality</b>	High	High	Low	Low
<b>Raw Material Procurement</b>	Haphazard	Increasingly regular	Regular use of known resources	Regular use of known resources
<b>Processing</b>	Minimum	Minimum	Increasingly important	Advanced (Levigation, etc.)
<b>Technology Complexity/investment</b>	Low/Low	Low/rising (e.g. turntable)	Permanent facilities (workshop, wheel)	High investment in permanent facilities (Kilns, workshops drying sheds)
<b>Techniques of production</b>	Simple	Low/rising	Increasing sophistication	Complex - maximisation constrained by social factors
<b>Output Quantity</b>	Low	Low - rising	Rising	High
<b>Variability</b>	High	High	Low - standard range of products	Specific range of products

Table 3.2. Hypothetical modes of production applicable to the later Iron Age. (After Peacock (1982) and van der Leeuw (1976, 1984) with additions).

<b>Components</b>	<b>Variables</b>
Transport	Speed Capacity Range
Market	Size (number of individuals involved) Scale (Spatial extent)
Goods	Status (Social) Rank/value Quantity
Transactors	Relationship Numbers

Table 3.3. Components and variables comprising a mode of circulation.

<b>Components and Informal variables</b>		<b>Local</b>	<b>Regional</b>	<b>Middleman</b>
<b>Transport</b>				
Speed	Slow	Slow	Rising	Rapid
Capacity	Low	Low	Rising	Large
Range	Intra-group	Local	Local regional	Inter-regional
<b>Market</b>				
Size	Minimum social unit	Inter group	Variable - rising	Limited by technology and competition
Scale	Intra - community	Community	Inter - community	Inter-regional
<b>Goods</b>				
Status	Low	Low - medium	Medium	Medium - high
Quantity	Small	Small	Medium	Small (High value) Large (Low value)
<b>Transactors</b>				
Relation-ship	Family	Group	Strangers	Strangers
Numbers	Low	Medium	High	Maximum

Table 3.4. Hypothetical modes of exchange/circulation existing under a capitalist or emergent capitalist system.

<b>Gift rank</b>	<b>Type of production</b>	<b>Type of product</b>	<b>Restrictions on production</b>
1	Gardening and agricultural produce	Plant and animal species used for food	Kin-based societies: gardens, arable and pasture are open to all members of a kin group and have rights to the produce. Ecological zones impose restrictions as all types of food cannot be grown in all places - this may lead to exchange. If social restrictions exist in this rank of production it implies considerable social control.
2	Procurement of primary products of restricted occurrence, but where little skill or investment is needed in extraction or procurement	Fur, feathers, wood shells, surface deposits of clay stone or metal ores	Usually under household or local kin group control - only centrally regulated where considerable control of economic life exists.
3	Craft production using common materials and little skill	Coarse pottery, textiles, basic woodwork and rudimentary stone tool making	Exact rank will depend partly on local and regional availability of workers and materials. Production often within household or local kin group
4	Craft production using restricted materials, some skill and/or special equipment	Fine pottery leatherworking skilled stone-knapping, wood, working and weaving	Usually not household production, some centralised control or specialization in production.
5	Procurement of primary products where skill and equipment are required and risk is encountered	Mining for stone metal ores and salt	Large scale enterprises beyond the means of individual households and under central control
6	Craft products requiring rare raw materials, time, skill or special equipment	Metal and glasswork monumental architecture and composite products	Societies most complex forms of production, open to the smallest number of people and under central control.

Table 3.5. General ranks of production for debt as suggested by Gosden (1989). (Rank 1 is the lowest).

Sample code	Site	Firing temperature
CC1	Krzesławice	900 - 950 C
CCA	Manching (4874C)	900 - 950 C
CCB	Esztergom (ESZ 7A)	100 - 1050 C 1100 - 1150 C

Table 4.1. Firing temperatures determined by thermal expansion. See Figures 4.9.1 - 3.

Site	Firing temperature ( C)
Staré Hradisko A	600 - 700
Liptovska Mará 91	800
Stradonice 2	700 - 800
Nitra - Mikov Dvor	700 - 800
Stradonice 1	800 - 900
Staré Hradisko B	800 - 900
Zemplín	700 - 800

Table 4.2. Firing temperature determined by mineralogical changes (Source: Cumberpatch and Pawlikowski 1988).



**Raw material**

**Procurement**  
 Clay for body  
 Clay for slip  
 Pigments for slip  
 Grey pigment  
 Fuel for firing

<b>Processing</b>	Clay for body	Clay for slip
	Drying Crushing Slaking Sieving/Settling Levigation	Drying Crushing Slaking Levigation Addition of prepared pigments
	Evaporation Treading/Kneading	

**Technology**

**Primary forming**                      Throwing

**Secondary forming**                      Turning  
 Surface preparation

**Decoration**

Stage 1                      Red and/or white slip

Stage 2                      Red and/or white slip

Stage 3                      Grey geometric decoration\*

**Additional processes**

Incising  
 Burnishing  
 Wax resist \*

**Drying****Firing**

Fuel  
 Kiln

\*Grey geometric decoration - Post firing?

\*Wax resist decoration - Post firing?

Table 4.3. Sequence of production.

<b>Raw material</b>	<b>Labour</b>	<b>Technology</b>	<b>Output</b>
<b>Procurement</b>			
Clay for body Clay for slip Pigments for slip and grey decoration Fuel for firing	Specialist knowledge and unskilled labour	Transport - local and long distance	Raw materials
<b>Processing</b>			
Drying Crushing Slaking Seiving/ settling Levigation	Specialist knowledge and semi-skilled labour	Drying shed Settling/ levigation tanks, crushing grinding and seiving facilities	Prepared clay
Clay body Evaporation Kneading	Skilled and semi skilled labour	As above	
Slip Addition of pigments			
<b>Forming</b>			
Throwing	Skilled labour	Kick wheel	Semi-finished vessels
Turning Surface preparation	Skilled Skilled	Turntable Tools	Fully formed vessels
<b>Surface treatment</b>			
Slipping	Skilled	Turntable brushes	Leather hard vessels
Drying and firing	Skilled	Kiln	Fired vessels (some finished)
Post-firing decoration	Skilled	Brushes	Finished vessels

Table 4.4. Slip decorated pottery: suggested mode of production

<b>Household production</b>	<b>Household industry</b>	<b>Individual workshop (local)</b>	<b>Individual workshop (central)</b>
Agricultural goods	Utilitarian pottery	Iron working	Iron smelting
Textiles	?Pottery	?Non-ferrous metallurgy	Iron working
Woodworking		Querns	Non-ferrous metallurgy
Querns (local stone)		Fine wares	Slip decorated pottery
			Glass

Table 4.5. Suggested modes of production for the Middle and Late La Tène periods.

Nine sherds or less		10 - 70 sherds		More than 70 sherds	
Site	Sherds	Site	Sherds	Site	Sherds
Závist	8	Ceské Lhotice	10	Stradonice	735 (+)
Nevězice	2	Komárno	26	Třisov	178
Certova Ruka	2	Liptovská Mara	49 (+)	Staré Hradisko	578
Sedlo	2	Vysny Kubin	26	Zemplín	219 (+)
Kašperske Hory	1	Nitriansky Hradok	21	Krzesławice	186
Skály	1	Iža	11	Mogiła	144
Lažiste	4	Bolen	10	Pleszów	72
Kbelnice	1	Tynec Opatwo	17	Podżeze	239
Třebohostice	1	Tynec Zawawozie	10	Tabán - Gellérthegy	374
Kuřimany	2	Wielicka	13	Esztergom	238
Nova Ves	1	Pelczyska	10	Bekasmegyer	94
Polepy	1	Hrazany	?		
Lusec Horin	1				
Vlínoves	4				
Postoloprty	1				
Vikletice 1	5				
Vikletice 2	2				
Radovesnice	1				
Lovosice	8 (+)				
Brno Horni-Herspice	1				
Brno Obrany	1				
Holubice	3				
Milovice	1				
Klentnice	2				
Otaslavice	1				
Drzovice	1				
Ptení	1				
Hrubcice	2				
Krenovice	?				
Bořitov	?				
Plevecké					
Podhradie	1				
Pobedim	1				
Nitra Hrad	3 (+)				
Nitra Mikov-Dvor	2				
Ul'any nad Zitavou	1				
Krnca	?				
Púchov	2				
Prosné	3				
Divinka	3				
Liptovská Sielnica	1				
Lopusne Pažite	1				
Kežmarok	1				
Machalovce	3				
Batizovce	1				
Turbia	3				
Biezanów	3				
Kryspinów	1				
Przemęcany	2				
Targowisko	8				
Wyciąże	4				
Barycz	1				
Kunice	1				
Dalewice	3				
Cło	1				
Velemszentvid	2				
Szazhalombatta	8				

Table 5.1. Summary of numbers of sherds from all sites for which adequate records exist. Further details of each site are given in Appendix 1.



- A - Red and white bands 0 - 10mm
- B - Red and white bands 0 - 10mm with narrow unpainted bands
- C - Red and white bands 11 - 19mm
- D - Red and white bands 11 - 19mm with narrow unpainted bands
- E - Red and white bands 20mm+
- F - Red and white bands 20 mm+ with narrow unpainted bands
- G - Red and white bands indeterminate and mixed
- H - Red and white bands indeterminate and mixed with narrow unpainted bands
- I - Red only
- J - White only
- K - Red and unpainted
- L - White and unpainted
- M - Red rim and white body
- N - Other
- O - Circles (wax resist patterns)
- P - Incised wavy lines
- Q - Grey geometric decoration
- R - Red wavy bands

Key to Table 5.2.

Open forms		
Form (intentional variation)	Habitual variation	Illustration
Inturned rim bowl	Pointed lip	5.24.2:2,3,4
	Round lip	5.24.1, 5.24.2:1, 5.24.3.
Everted rim bowl		4.1.6 4.1.3:2,4
Beaded rim bowl (incised decoration) 4.1.2:1,2	Round lip	5.21.2:5,3 5.21.1:2,4 4.1.1:1,2,3
	Triangular lip	5.21.2:1,2,4 5.21.1:3
Beaded rim bowl (Plain)	Round lip	4.1.2:2 4.1.3:1,3
	Triangular lip	
Profiled bowl		4.5
Other bowls		
Closed forms		
Everted rim jar	Round rim	4.2.2:1,2,4 4.2.3:1,2,3,4 4.2.4 1 - 4
	Overhanging rim	4.2.1:1 4.2.4:5
	Pointed rim	4.2.3:2
Chalice rimmed jar		5.23.11,2,3 5.23.2:1 - 4
Miniature storage jar		5.2.1:4 5.23.3:1,2
Bases		
Pedestal base		4.3.1:4 4.3.2:3
Tulip base		
Flat base		4.3.1:1,2
Others		4.3.1:3,5 4.3.2:2

Table 5.3. Vessel forms referred to in chapter 5

	A	B	C	D	E	F	G	H	I	J	K	L	M
Stradonice	52	59	2	5	23	70	6	-	-	-	20	20	12
Závist	-	-	-	1	1	-	-	-	-	-	1	-	-
Nevězice	-	-	-	-	-	-	-	-	-	-	1	-	-
Třísov	3	-	-	-	-	8	2	-	-	-	2	-	4
Sedlo	1	-	-	-	-	-	-	-	-	-	-	-	-
Kuřimany	1	-	-	-	-	-	-	-	-	-	-	-	-
Polepy	-	1	-	-	-	-	-	-	-	-	-	-	-
Vliněves	-	1	-	-	-	-	-	-	-	-	-	-	-
Skaly	-	1	-	-	-	-	-	-	-	-	-	-	-
Lusec Horin	1	-	-	-	-	-	-	-	-	-	-	-	-
Staré Hradisko	-	-	-	36	5	14	-	-	-	-	19	-	5
Brno:													
Horní Hespice	1	-	-	-	-	-	-	-	-	-	-	-	-
Milovice	1	-	-	-	-	-	-	-	-	-	-	-	-
Otaslavice	-	-	-	1	-	-	-	-	-	-	-	-	-
Ptení	-	-	-	1	-	-	-	-	-	-	-	-	-
Nitra:													
Mikov Dvor	-	-	-	-	-	-	-	-	-	-	1	-	-
Nitriansky													
Hrádok	-	-	-	-	3	1	1	-	-	-	-	-	-
Iža	-	-	-	-	3	1	-	-	-	-	-	-	-
Vyšný Kubín	-	-	-	-	3	1	1	-	-	-	-	-	-
Kvačany	-	-	-	-	1	-	-	-	1	-	-	-	-
Liptovská Mára	-	-	-	-	-	-	-	-	P	1	-	1	1
Kežmarok	-	-	-	-	1	-	-	-	-	-	-	-	-
Zemplín	8	-	8	10	7	10	6	8	5	-	-	-	14
Krzyszawice	-	-	-	16	16	-	12	-	3	5	-	-	4
Bolen	-	-	-	-	-	-	1	-	-	-	-	-	-
Mogila	-	-	-	8	-	9	-	1	1	-	-	-	1
Pleszów	-	-	-	3	-	3	-	3	1	1	-	-	1
Podleze	-	-	-	4	1	1	-	-	-	-	-	-	-
Tyniec - Opactwo-	-	-	2	-	-	2	-	1	-	-	-	-	-
Wielicka	-	-	-	-	-	-	-	-	-	1	-	-	-
Wyciąże	-	-	-	-	-	-	-	-	-	-	-	-	1
Cło	-	-	-	-	-	-	-	-	-	-	-	-	1
Tabán	-	-	9	6	1	6	4	2	-	-	1	-	4
Gellérthegy	-	-	-	2	10	6	4	-	2	1	1	-	-
Bekasmegyer	-	-	-	-	1	-	2	-	1	-	-	-	2
Esztergom	-	-	5	5	3	9	2	6	1	1	-	-	8
Hrazany	-	P	-	-	-	-	-	-	-	-	-	-	-
Plavecké													
Podhradie	-	-	-	-	-	-	-	-	-	-	-	-	-
Krnca	-	-	-	-	-	-	-	-	P	-	-	-	-
Szazhallyombatta	P	-	-	-	-	-	-	-	-	-	-	-	-

Table 5.4 Distribution of vessel form on sites within the study area. Numbers of sherds (P = Presence)



- A - Beaded rim bowls
- B - Beaded rim bowls with incised decoration
- C - Everted rim bowls
- D - Inturned rim bowls
- E - Other bowls
- F - Round rimmed jars
- G - Pointed rimmed jars
- H - Overhanging rim jars
- I - Chalice rimmed jars
- J - Miniature storage jars
- K - Other jars
- L - Bases
- M - Other and unidentifiable
- N - Percentage of total assemblage with identifiable form

Key to Table 5.4.

Group T1	Central and north-western Bohemia	Hemispherical bowls with incised wavy lines. Wax resist decoration.
Group T2	Moravia	Inturned rim bowls with pointed lips and internal thickening. (Note the presence, in all areas, of round rimmed inturned rim bowls)
Group T3	Southwestern Slovakia and Hungary	Red wavy bands, often applied over white slipped areas.
Group T4	Slovakia and Poland	'Chalice' rimmed jars Miniature storage jars ?Overhanging rim jars ?Round and 'teardrop' rimmed inturned rim bowls - absence of 'Moravian' style bowls.

Table 5.5. Regionally distinctive typological groups.

Table 5.6. Correlation of groups identified in Figure 5.25 with typological data.

Cluster	Site	Sample numbers	Percentage of total	Vessel form/ decoration	
1A1	Krzyszawice	5, 6, 10, 1	54.1%	Chalice	
	Zemplín	K192	11.9%		
	Pleszów	1	14.4%		
	Mogiła	1A, 5	8.73%		
	Bekasmegyer	2, 10, 8, 13, 14	25.7%		
	Stradonice	2	0.8%		
	Komárno	1	19.23%		
	Tabán	9A	2.3%		
	Ceské Lhotice <sup>3</sup>	-	-		
	Kvačany	1/72A	-		Chalice
	Ulány n.Z.	-	-	-	
	Lovosice	1, 2	-	-	
	Wielicka	-	-	Miniature storage jar	
	Turbia	8187	-	-	
	Bolen	-	-	-	
	Tyniec	1	-	Chalice	
	M.A.K.	6967	-	-	
1A2	Tabán	2C, 17, 5	4.3%	Red wavy bands	
	Esztergom	6	5.6%		
	Podleze	3A, 2, 5	0.4%		
	Pleszow	8	1.3%		
	Liptovská Mara	50	17.85%	Miniature storage jar	
	Komárno	5C	3.8%	-	
	Třisov	12	11.36%	-	
	Závist	5	-	-	
	Lovosice	4	-	-	
	Manching	12, 5351B	-	-	
1A3	Mogiła	8A, 10, 4	2.86%	Red wavy bands	
	Tabán	4A, 1, 15 10R, 11A	6.07%		
	Esztergom	10, 7A,	31.4%		
	Pleszów	D, K3	5.2%		
	Třisov	8, 10,	20.43%		
	Krzyszawice	8R, 2, 2B	22.13%		Miniature storage jar
	Podleze	1	76.15%		
	Závist	2	-	-	
	Bratislava	5	-	-	
	Fleissig collection	1	-	-	
	Biezanów	-	-	-	

1B1	Tabán	4, 6	5.67%	Red wavy band
	Esztergom	4, 3, 5,		
		9A	14.8%	Red wavy band
	Tríšov	15, 16	1.12%	
	Pleszów	K5	1.3%	
	Zemplín	11, 9	1.53%	
	Nitriansky			
	Hrádok	2	32%	Red wavy band
	Liptovská			
	Mara	40	3.57%	
	Krzyszówice	A	2.4%	
	Bratislava	1, 2	-	
Turbia	8164	-		
1B2	Komárno	2A	3.8%	
	Bekasmegyer	5, 1	50.47	
	Tabán	2A	2.85%	
	Esztergom	11, 6A	3.2%	
	Podleze	1A	1.2%	
	Pleszów	4	2.6%	
	Bratislava	4		
	Sedlo	-		
1C1	Krzyszówice	2A, 3A, 7,		
		3	15.25%	Chalice
	Bekasmegyer	11, 4, 6	4.2%	
	Stradonice	5A, 12	3.09%	Incised wavy line
	Komárno	6	19.23%	
	Otaslavice	-	-	Inturned rim bowl (Moravian)
	Závist	1	-	
Wyčiaże	178C	-		
1C2	Bekasmegyer	3, 2A	3.17%	
	Stradonice	10	18.95%	Wax resist
	Zemplín	6, 4	9.27%	
	Iža	G		
1C3	Staré			
	Hradisko	1	48.94%	Inturned rim bowl (Moravian)
	Pleszów	K1, 2, B,		
		7	65.7%	
	Stradonice	1	14.4%	Wax resist, incised wavy line
	Pobedim	-	-	
	Ceské			
Lhotice	2	-		
1D1	Mogila	2	72.79%	
	Taban	8	4.9%	
	Bekasmegyer	9	6.4%	
	Skaly	-	-	
	Turbia	8171		
	Gellérthégy	-	-	
	Machalovce	C	-	
	Manching	9	-	

1D2	Tabán	9, 13	2.55%	Chalice, Red wavy band
	Esztergom	6B, 8, 9, 7B	11.2%	
	Zemplín	3	3.1%	
	Mogiła	2A	9.5%	
	Bratislava	3	-	
	Manching	13	-	
2A1	Staré Hradisko	7, F, 19	2.09%	Inturned rim bowl (Moravian)
	Nitriansky Hrádok	5	4%	
	Brno - Horní Herspice	-	-	
	Holubice	-	-	
2A2	Staré Hradisko	2	20.87%	Inturned rim bowl (Moravian)  Red wavy band, Miniature storage jar Chalice
	Mogiła	3	1.4%	
	Tabán	2	42.85%	
	Vyšný Kubín České	7	40.9%	
	Lhotice	1	-	
	Kuřimany	2	-	
2A3	Staré Hradisko	6	4.56%	Inturned rim bowl (Moravian)
	Tabán	3A, 16	3.56%	
	Čertova Ruka	-	-	
	Manching	2	-	
	Fleissig collection	-	-	
2B1	Vyšný Kubín	5	13.6%	
	Pleszów	2A	1.3%	
	Stradonice	19	0.56%	
	Lovosice	3	-	
	Machalovce	A	-	
	Krzyszłowice	1X	-	
	Przemęcany	2	-	
2B2	Pleszów	6	1.5%	Inturned rim bowl (Moravian)
	Vyšný Kubín	1R, 3	31.7%	
	Liptovská Mara	30A	-	
	Křenovice	-	-	
	Kvačany	C	-	
	Krzyszłowice	'81	-	
	Manching	10A	-	
	Tynec	2	-	
	Targowisko	-	-	
	Závist	4	-	
2B3	Liptovská Mara	20, 90, 60, 30	19.6%	
	Bekasmegyer	7	9.6%	
	Vyšný Kubín	1A	-	

2C	Liptovská			
	Mara	91	1.78%	
	Stradonice	21	0.13%	
	Prosne	-	-	
2D1	Esztergom	1	6.8%	Red wavy band
	Krzesławice	4	0.6%	
	Staré			
	Hradisko	14	0.35%	
	Tabán	17A	1.0%	
	Iža	E	-	
	Púchov	-	-	
2D2	Esztergom	13	0.4%	Red wavy band Incised wavy line
	Liptovská			
	Mara	10A	5.35%	
	Nitriansky			
	Hradok	1	28%	
	Tabán	4B, 7	2%	
	Vliněves	-	-	
	Nitra -			
	Mikov Dvor	748	-	
	Machalovce	C	-	
Manching	4	-		
2D3	Vyšný Kubín	6	-	Incised wavy line, wax resist
	Stradonice	14	1.27%	
	Iža	K	-	
2E1	Tabán	3, 2B,	15.57%	Red wavy band
	Stradonice	22	0.13%	
	Zemplín	1, 377A		
	Liptovská			
	Mara	10	33.9%	
	Nitriansky			
	Hrádok	6	16%	
	Esztergom	4A	0.4%	
2E2	Zemplín	377B	0.75%	Chalice
	Krzeslawice	9	1.2%	
	Staré			
	Hradisko	12	0.87%	
	Prosne	B	-	
2E3	Komárno	4	3.8%	
	Zemplín	8, 10	3.53%	
	Tabán	14	1.29%	
	Liptovská			
	Mara	70	14.28%	
	Esztergom	14	0.4%	
	Třisov	7	2.8%	

2F	Nitriansky				
	Hrádok	3		8%	
	Staré				
	Hradisko	8, 3, 11		3.31%	
	Třisov	9, 5		20.45%	
	Stradonice	5, 25, 17		46.63%	
		23, 3, 8, 7, 15, 17, 9			Incised wavy line, Inturned rim bowl (Moravian) Wax resist
	Bekasmegyer	12		1.07%	
	Zemplín	5		2.5%	
	Pleszów	A		1.3%	
	Nevězice	'26, '27		-	
	Iža	J		-	
	Vikletice	-		-	
	Divinka	-		-	
Nitra Mikov					
Dvor	'293		-		
Kvačany	B				
Polepy	-		-	Incised wavy line	
Závist 6	-		-		
Lažiste	3		-		
2G1	Stradonice	13		1.69%	
	Nitriansky				
	Hrádok	3A		4.0%	
	Esztergom	12, 12A		0.8%	
	Komárno	2		30.7%	
	Lažiste	4		-	
	Hrubcice	-		-	
	Iža	A		-	
	Drzovice	-		-	
	Nitra Mikov-				
Dvor	-		-		
Manching	3, 11, 10		-		
2G2	Třisov	1		19.8%	
	Nitriansky				
	Hrádok	4		4.0%	
	Podleze	3		2.09%	
	Komárno	3		19.23%	
	Kašperske				
	Hory	-		-	
	Manching	6		-	
2H1	Staré				
	Hradisko	18, 15		3.85%	
	Zemplín	K182		1.03%	
	Třisov	13		1.70%	
	Klentnice	66/59,78/59		-	?Incised wavy line
2H2	Manching	1		1.92%	
	Závist	7		-	
	Kurimany	1		-	

2H3	Staré			
	Hradisko	4, 13	1.92%	
	Třisov	17, 14, 11		
		3	15.23%	
	Lažiste	1, 2		
	Bořitov	-	-	
	Závist	3	-	Wax resist
2H4	Staré			
	Hradisko	10	0.70%	Inturned rim bowl (Moravian)
	Stradonice	16, 18	3.15%	Incised wavy line
	Bratislava	8	-	
	Milovice	3501	-	
2H5	Stradonice	24, 4	4.1%	
2I1	Pleszów	5	3.9%	
	Vyšný Kubín	2, 2A	4.5%	
	Zemplín	2, 7	49.6%	Chalice
	Krzyszówice	3	0.6%	
	Liptovská			
	Mara	80	3.57%	
	Třisov	4	3.97%	
	Nova Ves	-	-	
	Nitra Hrad	-	-	
	Bratislava	6	-	
2I2	Esztergom	1A, 7C	22.9%	Red wavy band
	Manching	5, 8		
2I3	Stradonice	9, 11	6.34%	Incised wavy line



<b>Cluster</b>	<b>Geographical area</b>
1A	Danube plain and Małopolska (Bohemia)
1B	Danube plain and Małopolska
1C	Present on major sites across the whole study area
1D	Małopolska, Danube plain and eastern Slovakia
2A	Danube plain, Moravia, eastern Bohemia
2B	Northern Slovakia, Małopolska (Danube)
2C	Inconclusive (Three sherds only)
2D	Northern Slovakia, Danube plain
2E	Northern and eastern Slovakia, and Danube
2F	Central and southern Bohemia
2G	Southern Slovakia, southern Bohemia and Moravia
2H	Moravia, Bohemia and outliers
2I	Eastern Slovakia, Małopolska and Danube plain.

Table 5.7. Principal geographical areas represented by clusters identified in figure 5.25.

Cluster	Samples	Percentage of each assemblage
1A	Stradonice Ceské Lhotice Lovosice Třísov Závist Manching	0.8% - (3 of 4 samples) 31.79% (2 samples) -
1B	Třísov Sedlo	1.12%
1C	Present on major and minor sites across the study area with the exception of Třísov Tabán or Manching.	
1D	Skaly Manching	- -
2A	Mogíla Vysný Kubín Manching	1.2% 40.9% -
2B	Stradonice Lovosice Křenovice Manching Závist	0.56% 1 sample - - 1 sample
2C	See Table 5.7	
2D	Staré Hradisko Vliněves Machalovce Manching Stradonice	0.35%   1.27%
2E	Stradonice Staré Hradisko Třísov	0.13% 0.87% 2.8%
2F	Nitriansky Hradok Bekasmegyer Zemplín Pleszów Iza Divinka Nitra Mikov-Dvor Kvačany	8% 1.07% 2.5% 1.3% 1 sample
2G	Podřeze Manching	2.09% -
2H	Zemplín Manching Bratislava	1.07% - 1 sample
2I	Třísov Nova Ves Manching Stradonice	3.97%  2 samples 6.34%

Table 5.8. A summary of the material from sites outside the principal areas of distribution found in the groups identified in Figure 5.25.

<b>Group</b>	<b>Site</b>	
1A	Třísov	31.79%
	Lovosice	3 of 4 samples
2A	Vyšný Kubín	40.9%
2E	Třísov	2.8%
2F	Nitriansky Hrádok	8%
	Zemplín	5%
2G	Podleze	2.09%
2H	Třísov	3.97%
	Stradonice	6.34%

Table 5.9. See section 5.7.6.

**Group T1.**  
Bowls with incised wavy lines.

Sites with diagnostic sherds	Sample numbers	Percentage of total assemblage	Sites in the same locality - motif absent or unknown
Stradonice	1, 5, 11 12, 14, 15, 17, 18	78.88%	Závist Nova Ves Čertova Ruka Vikletice (Cernhynky) (Vikletice) (Dobřichov Pichora) (Lusec Horin) (Oploty) (Postoloprty) (Triskolupy) (Podbořany) (Radovesice) (Bžany) (Strekov) (Kadaň Jezerka) (Lomazice) (Radovesnice)
Vlineves	*	*	
Polepy	*	*	
Lovosice	N/S	*	
Soběsuky	N/S	*	
Hrazany	N/S	*	
Trásov	13	1.7%	
<b>Wax resist decoration (Central Bohemia)</b>			
Stradonice	1, 3, 10, 14, 15, 20.	81.25	(Hrazany) (Vlineves) (Lusec Horin)
Závist	3	*	
<b>Group T2</b> Inturned rim bowls			
Staré Hradisko	1, 2, 6, 7, 8, 9 10	77.16	(Moravia only) Brno Horni Herspice Brno Obrany Holubice Milovice Klentnice Drzovice Hrubcice Krenovice Boritov (Strelice)
Otaslavice		100	
<b>Group T3. Red and white wavy bands</b>			
Esztergom	1, 3A, 5, 6, 7A 7C, 10	92.7%	Bekasmegyer  Nitra Hrad Nitra Mikov Dvor
Tabán - Gellérthegy	2, 2B, 3 4B, 6, 7	23.04%	Iza Komarno Ul'any nad Žitavou (Chotin) Kamenin
Nitriansky Hradok	2	32%	
Szazhollombatta	*	*	
Bratislava	*	*	
Devín	*	*	
<b>Group T4. 'Chalice' rimmed jars and miniature storage jars.</b>			
<b>'Chalice' rimmed jars</b>			
Zemplín	192, 377A, 2	62.55%	Púchov Prosné Divinka Vyšný Kubin Liptovská Sielnica Liptovská Stávnica Podturen - Basta Zemplin group All other Polish sites
Krzyszawice	1, 3A, 7	15.25	
Mogiła	2A	1.4%	
Liptovská Mara	*	*	
Kvačany	1/72A	*	
Esztergom	7B	11.2%	
<b>Miniature storage jars.</b>			
Krzyszawice	2, 2B	22.13	
Wielicka	1	*	All other sites (see appendix 1)
Liptovská Mara	50	17.85	
Mogiła	unidentified		
Tabán - Gellérthegy	1 vessel from Gellérthegy.		

Table 5.10. The principal typological groups (T1 - T4) and their relationship to the samples taken for petrological analysis

<u>Imports</u>	<u>Internal circulation</u>	<u>Exports</u>
<u>Danube Plain</u>		
Italian and Roman provincial goods	Slip decorated pottery	Agricultural goods
Norican goods (coins brooches)	Coins	
Gallic and Balkan brooches	Querns and whetstones	
Graphite clay		
Graphite pottery		
<u>Eastern Slovakia</u>		
Norican jewellery		?Slip decorated pottery*
Coins (Velky Bysterec)		
<u>Northern Slovakia (Púchov culture)</u>		
Graphite clay/vessels	Local fine wares	?Metals
Glass	Slip decorated pottery*	
Copper alloy goods	Metal ores/ingots	
Coins (Bratislava, Bohemian types)	Copper alloy goods	
Agricultural produce (barley)		
Tin		
'Germanic' goods		
Roman provincial goods (late)		
<u>Malopolska</u>		
Brooches (Slovak, Norican/Pannonian)	Iron	Salt
Coins	Pottery	?Iron
Slip decorated pottery*	Slip decorated pottery*	Slip decorated pottery*
Glass jewellery		
Amber		
'Germanic' goods		

\*The circulation of slip decorated pottery within Malopolska/Northern and Eastern Slovakia comprises a single exchange network.

Table 6.1. Goods in circulation in the eastern part of the study area.

<b>Rank</b>	<b>Type of goods</b>
1	Agricultural goods Utilitarian pottery Utilitarian iron tools
2	Copper alloy goods Specialist iron tools and weapons Fine pottery
3	Glass jewellery Slip decorated pottery (without grey decoration)
4	Slip decorated pottery (with grey decoration)

Table 6.2. Suggested ranking of goods in Late Iron Age Central Europe (1 = low rank).

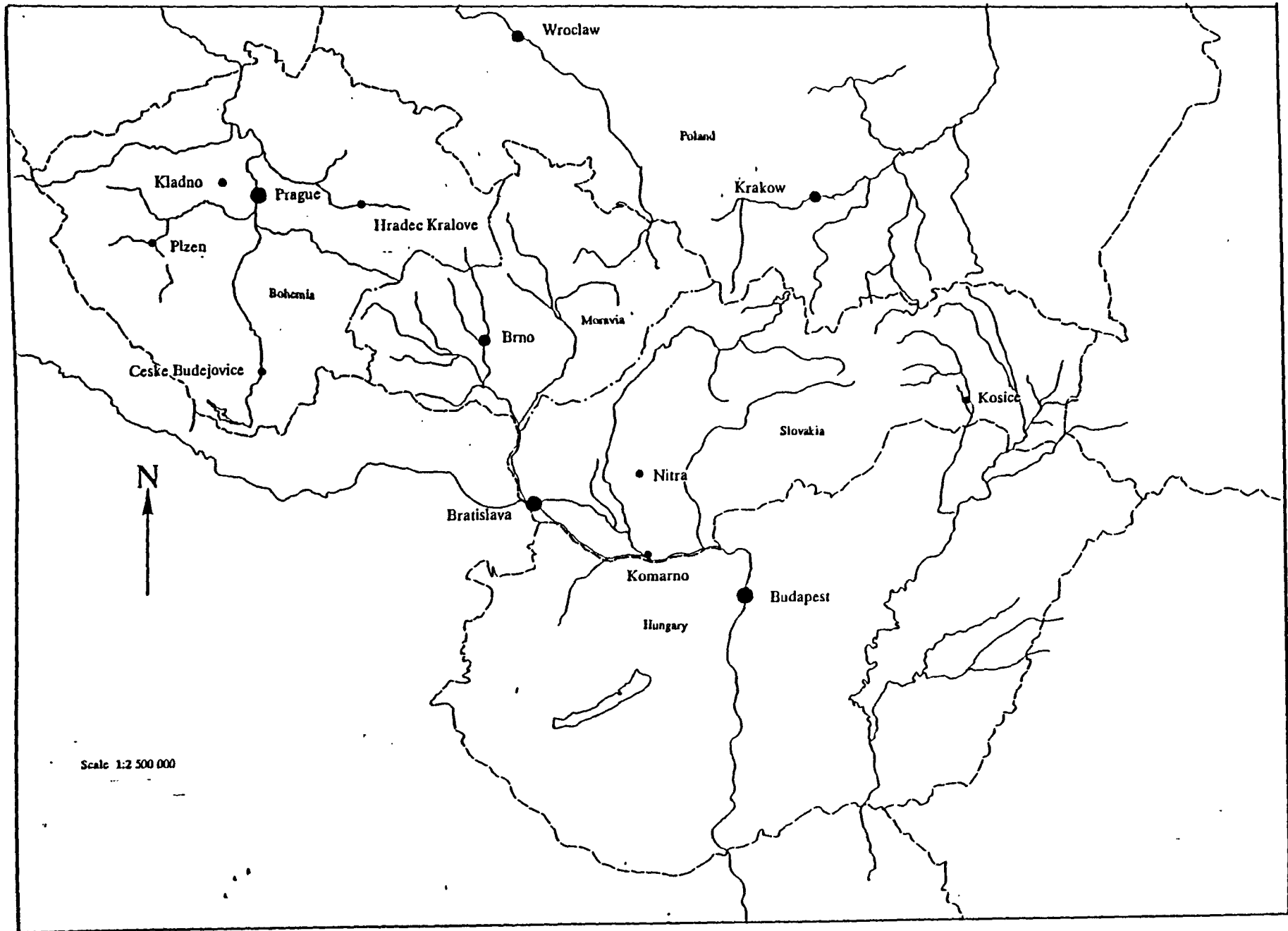


Figure 2.1. Modern political geography of the study area

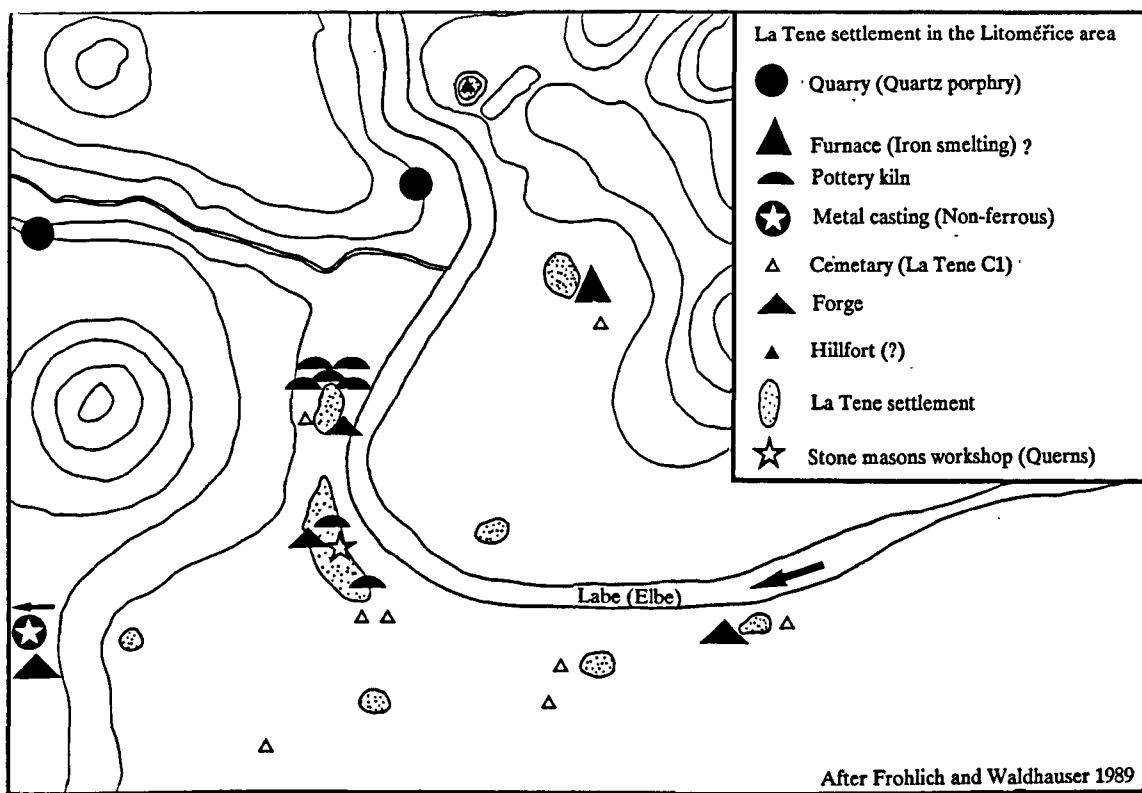


Figure 2.2

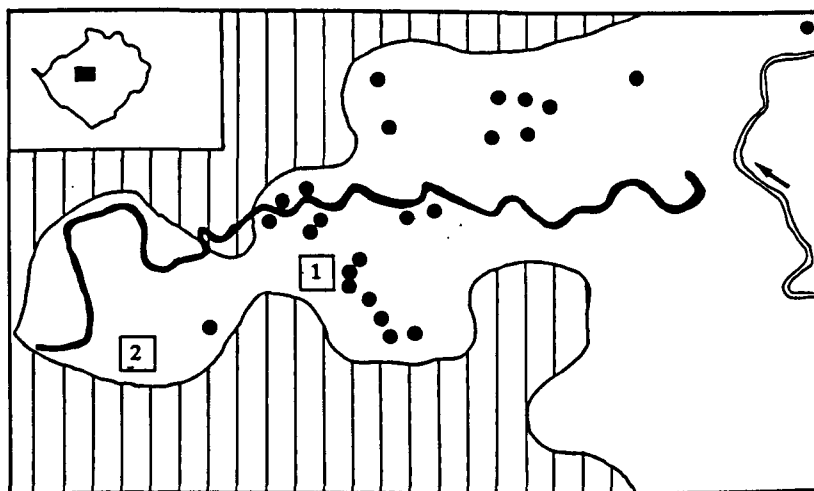


Figure 2.3

Sapolite sources and sites with evidence of ring production in Central Bohemia. (After Waldhauser, unpublished)

- ~ Sapolite outcrop
- Settlement with production debris
- Viereckschanzen
- 1 Mšecké Žehrovice



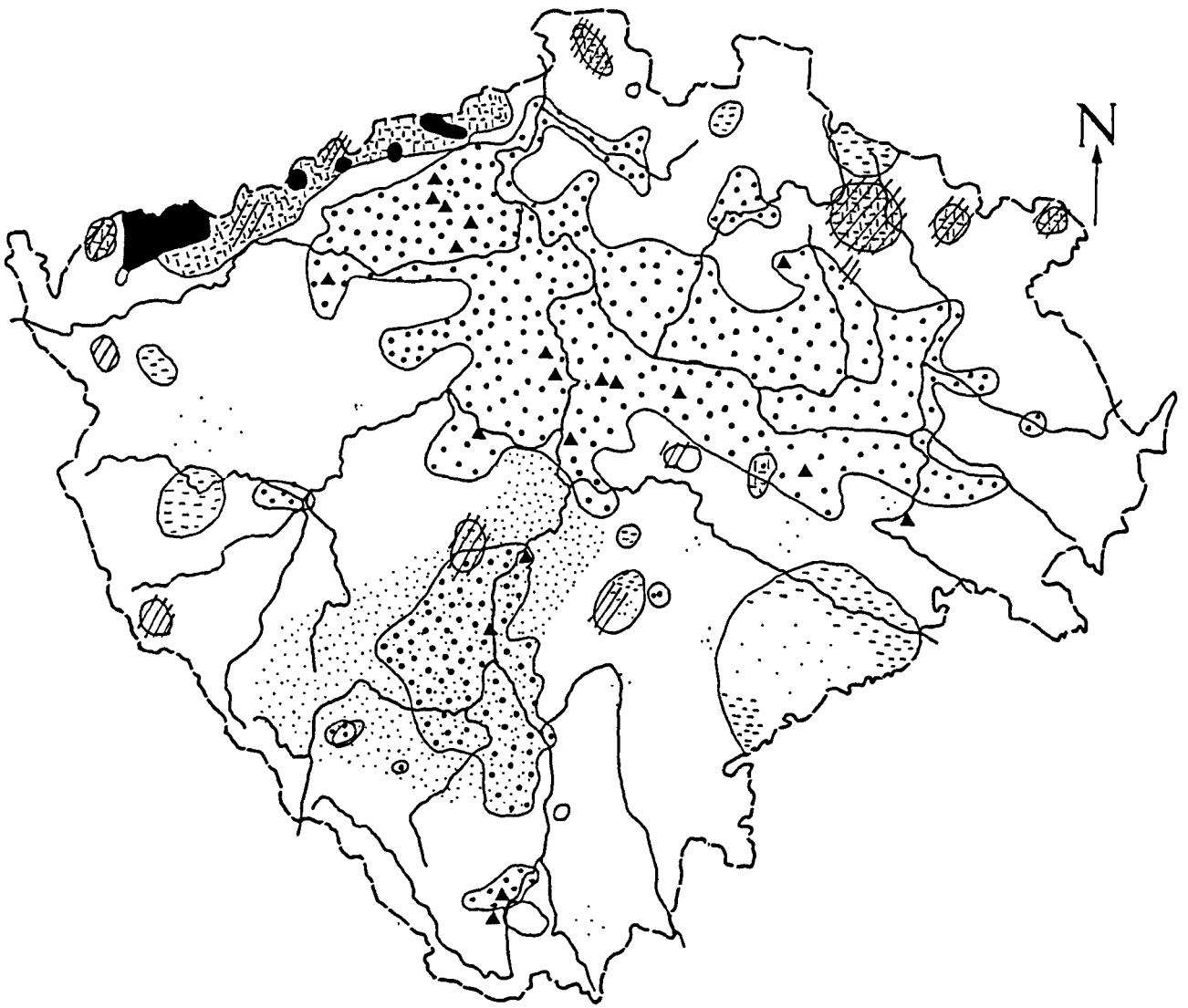


Figure 2.4.1

Gold, silver, tin and copper ore sources in Bohemia.  
 (After Waldhauser unpublished).

- Gold
- Silver - abundant
- Silver - sparse
- Tin
- /// Copper
- ▲ Sites with crucible fragments

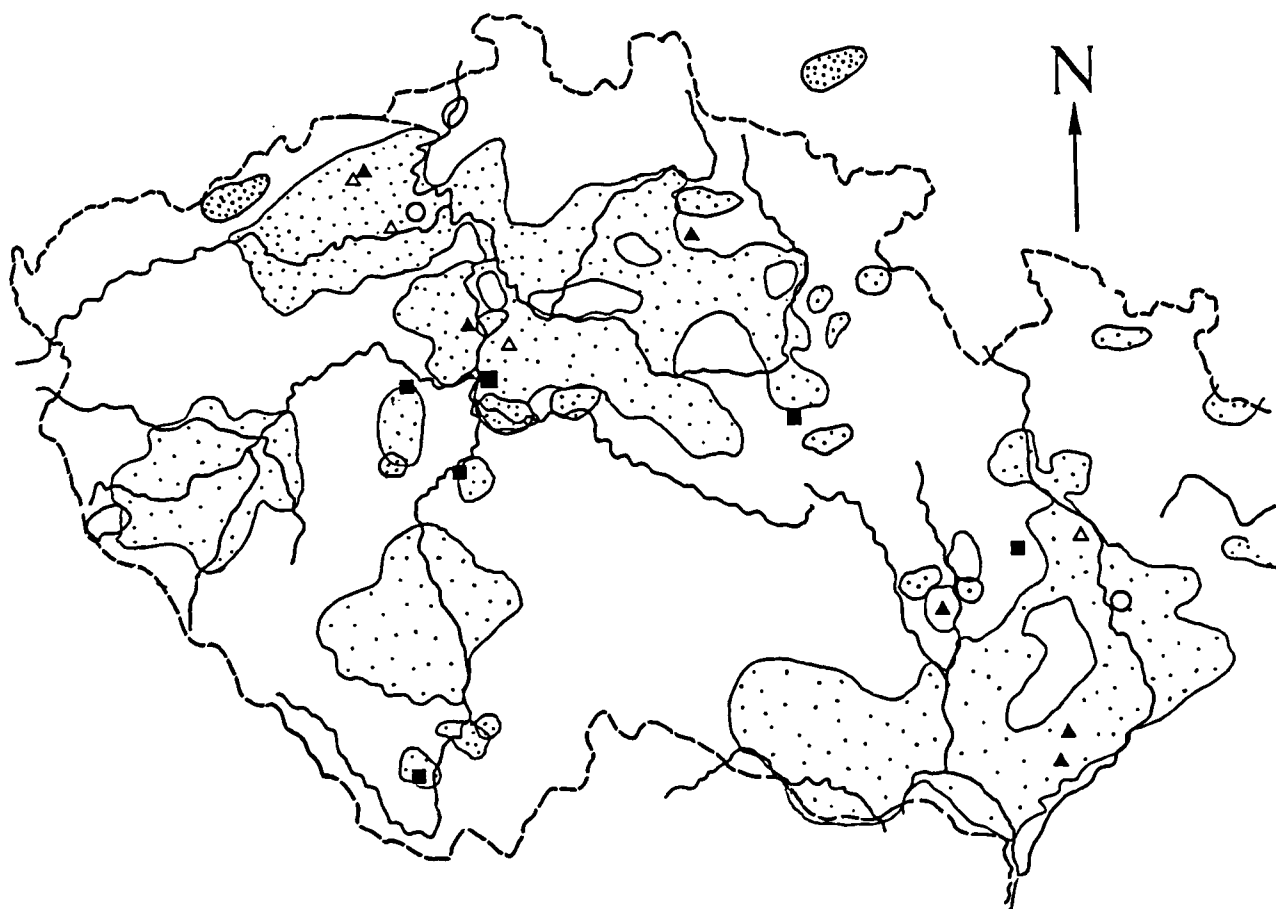


Figure 2.4.2

Sites in Bohemia and Moravia with evidence of copper metallurgy.  
(After Waldhauser 1986)

- △ Undefended settlement (La Tene A - C1)
- ▲ Undefended settlement (La Tene C2 - D2)
- Undefended settlement (Date unconfirmed)
- Oppidum

Figure 2.5

Oppida, *Viereckschanzen* and castella in Bohemia and western Moravia.  
Source: Waldhauser 1984b, with additions.

- |                          |                     |
|--------------------------|---------------------|
| 1 Stradonice             | ● Oppidum           |
| 2 Závist                 | ○ ?Oppidum          |
| 3 Nevězice               | ■ Viereckschanzen   |
| 4 Hrazany                | ◆ Castellum         |
| 5 České Lhotice          | ▲ ?Castellum        |
| 6 Třisov                 | □ Lhotka - Lovosice |
| 7 Úhošť                  |                     |
| 8 Sedlo                  |                     |
| 9 Zvíkov                 |                     |
| 10 Čertová Ruka          |                     |
| 11 Kolo                  |                     |
| 12 Staré Hradisko        |                     |
| 13 Ludeřov               |                     |
| 14 Olbramice             |                     |
| 15 Skřípel               |                     |
| 16 Třebesko 1            |                     |
| 17 Třebesko 2            |                     |
| 18 Kucer                 |                     |
| 19 Radetice              |                     |
| 20 Tešínov               |                     |
| 21 Hradiste - Malovice   |                     |
| 22 Obři - Hrad           |                     |
| 23 Hradište pod Homolkou |                     |
| 25 Rubín                 |                     |
| 26 Kokrdov               |                     |
| 27 Mšecke Žehrovice      |                     |
| 28 Libochovany           |                     |
| 29 Sloup                 |                     |
| 30 Hradsko               |                     |
| 31 Klamorna              |                     |
| 32 Markvatice            |                     |
| 33 Parez                 |                     |
| 34 Češov                 |                     |
| 35 Češov 1               |                     |
| 36 Češov 2               |                     |
| 37 Plotiste              |                     |
| 38 Sptyice               |                     |
| 39 Oskobrh               |                     |
| 40 Křivoklat             |                     |
| 41 Tabor                 |                     |

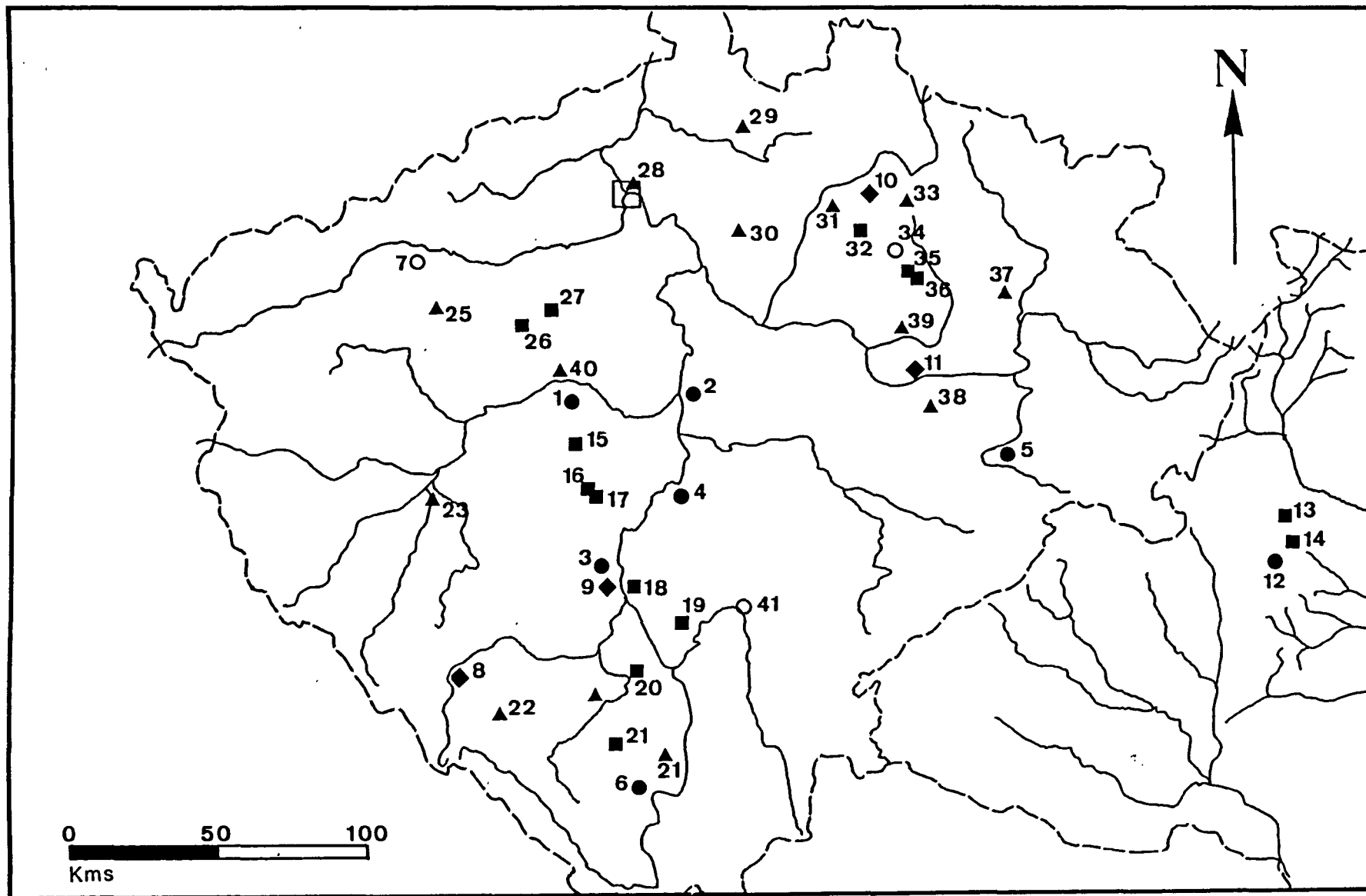


Figure 2.5

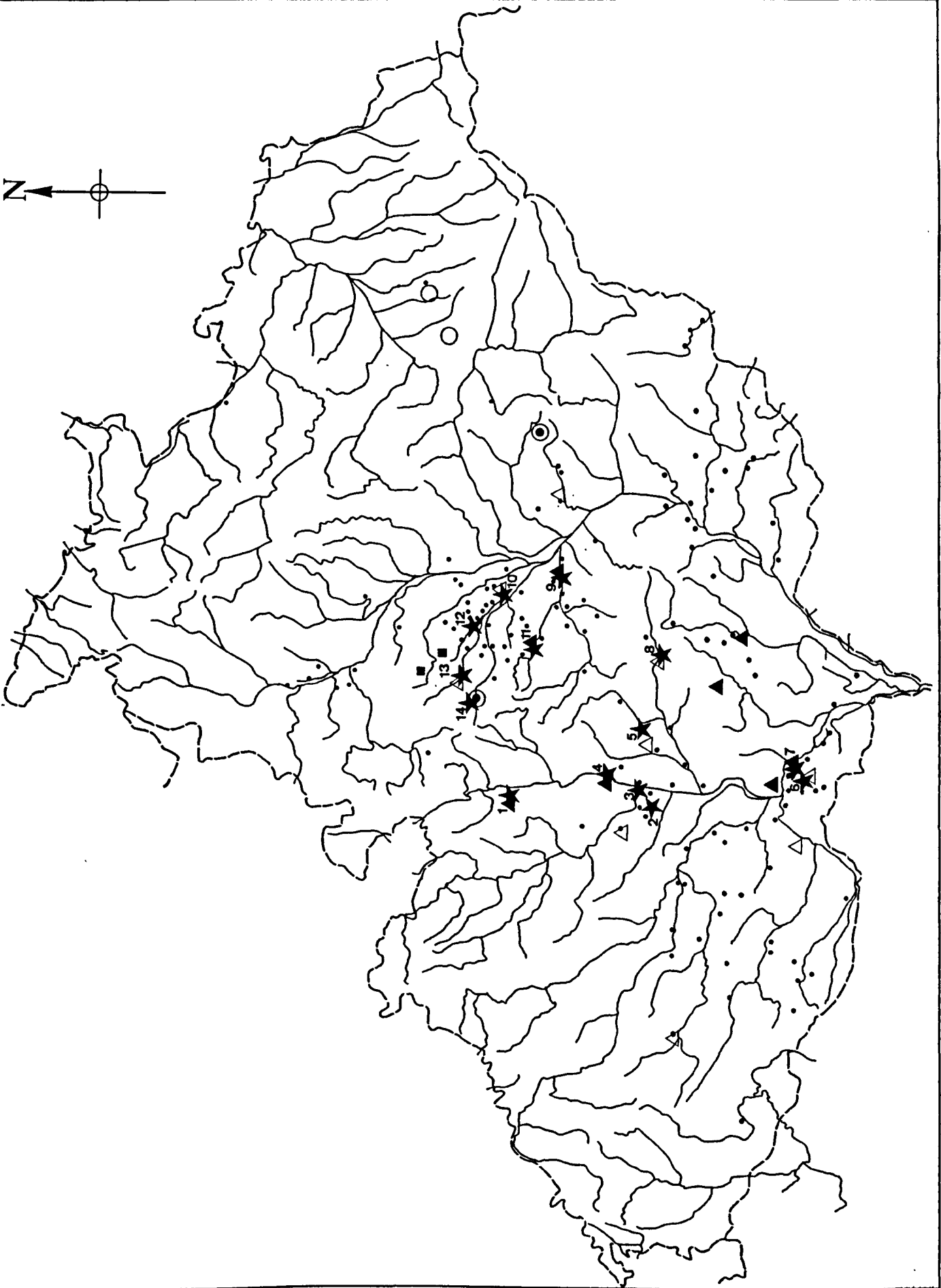
Figure 2.6

Late La Tene settlement in Moravia.

Source: Meduna 1980a with additions.

- 1 - Bořitov
- 2 - Střelice
- 3 - Brno - Horní Herspice
- 4 - Brno - Obřany
- 5 - Holubice
- 6 - Klentnice
- 7 - Milovice
- 8 - Vicemilice
- 9 - Křenovice
- 10 - Hrubcice
- 11 - Otaslavice
- 12 - Drzovice
- 13 - Ptení
- 14 - Staré Hradisko

- ⊙ Oppidum
- Defended settlement
- Undefined settlement
- ▲ Industrial village
- △ ?Industrial village
- ★ Slip decorated pottery
- Viereckschanzen



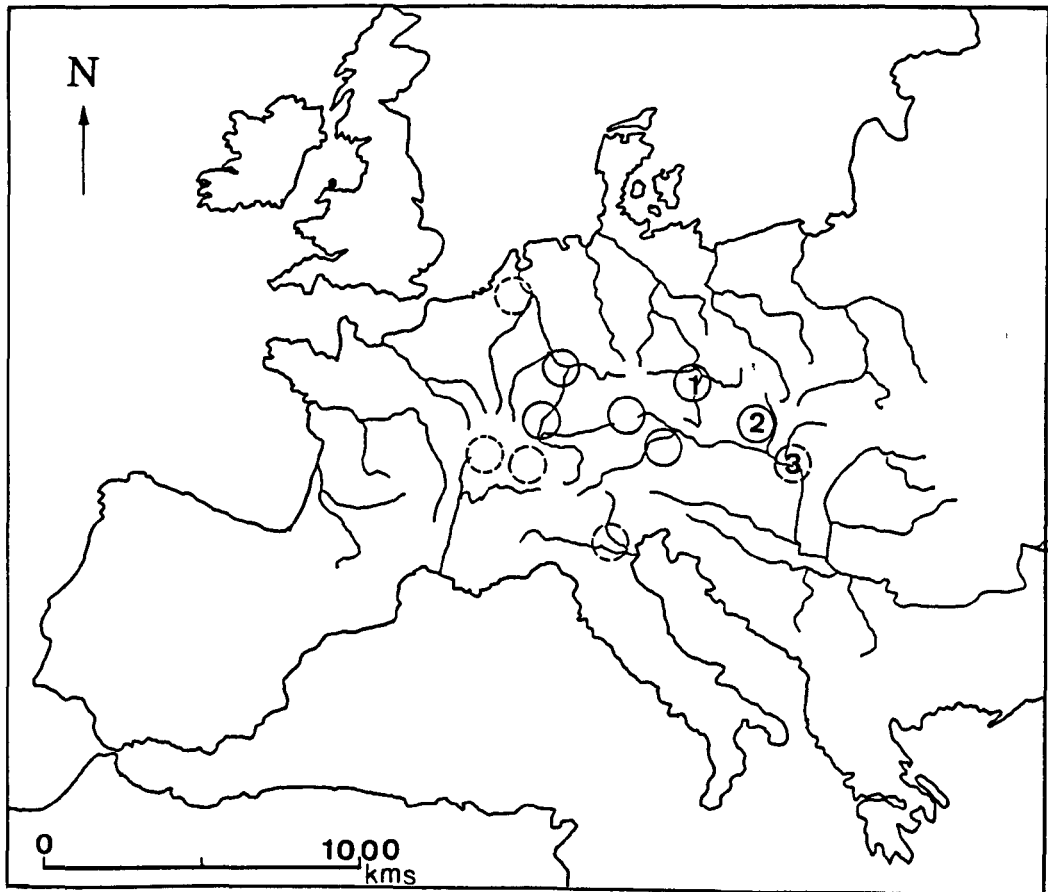


Figure 2.7

Glass workshops in Central and Western Europe  
La Tène C1 - D. (After Venclová 1990)

- La Tène C1
- La Tène C2 - D
- La Tène D

- 1 - Stradonice
- 2 - Staré Hradisko
- 3 - Southwestern Slovakia

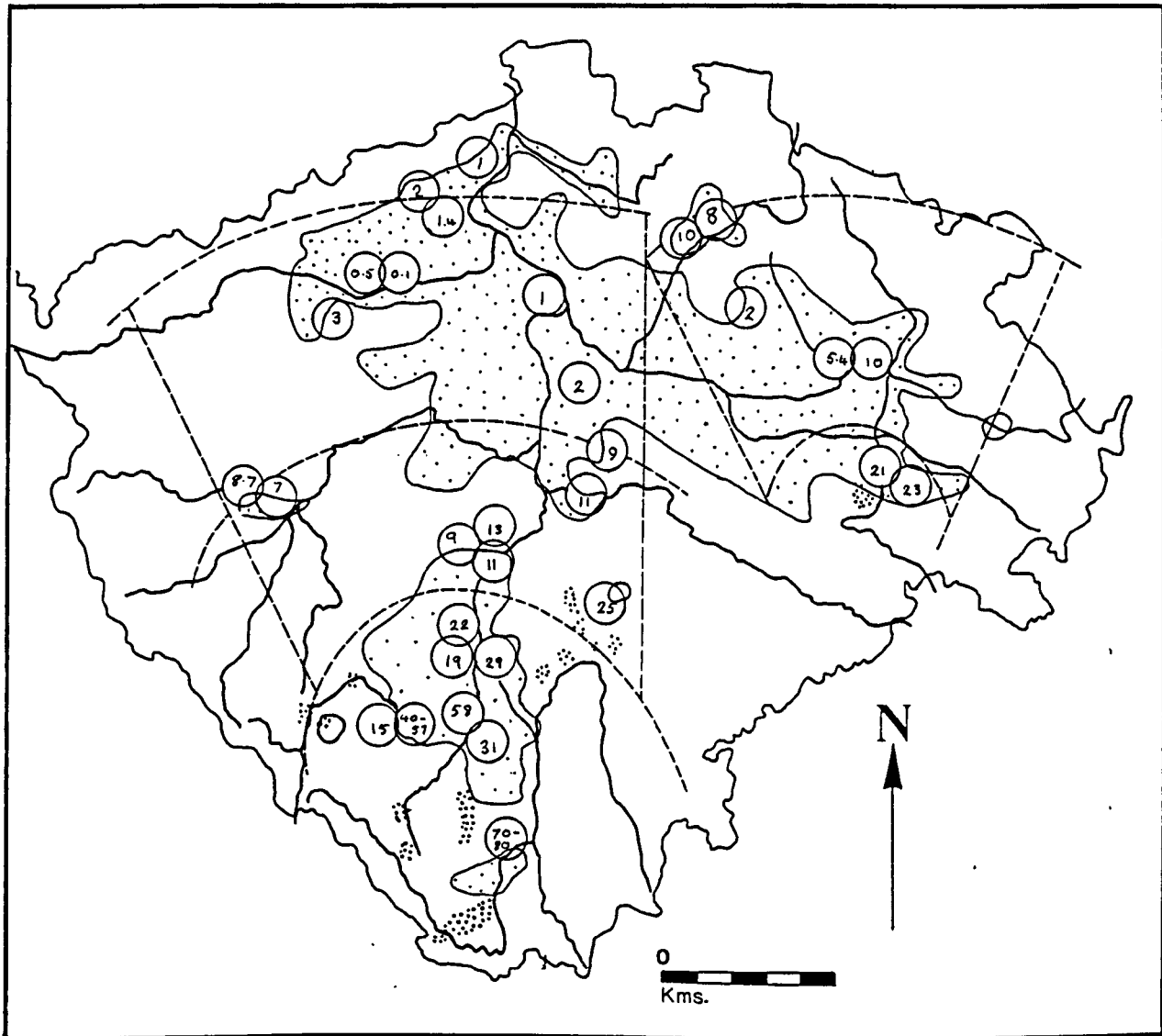
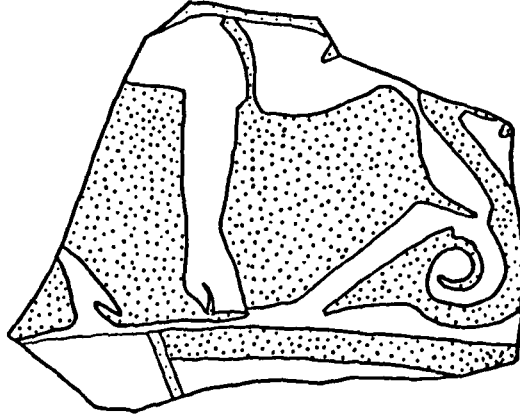


Figure 2.8.

Percentage of *Graphittonkeramik* on Iron age sites (La Tene B2 - D1) in Bohemia.(After Waldhauser unpublished.)

- ⊙ Areas of principal La Tene settlement
- ⋯ Sources of Graphite clay
- Ⓢ Percentage of *Graphittonkeramik* on selected sites





**NM 2422**

Figure 2.9. Sherd with zoomorphic decoration from Stradonice

## Figure 2.10

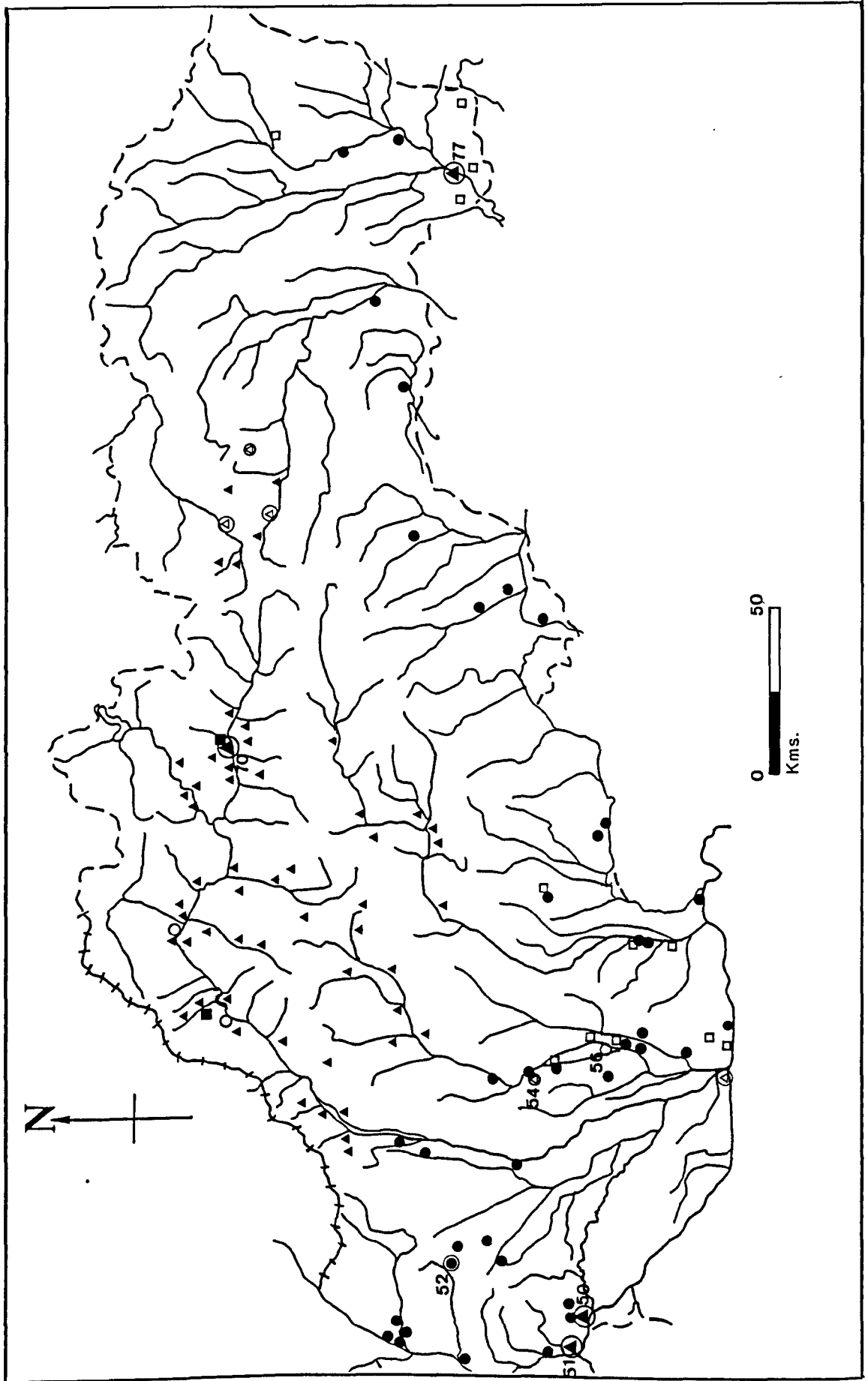
### Late Iron Age settlement in Slovakia

Source: Pieta 1981

- 50 - Bratislava
- 51 - Devín
- 52 - Plavecké Podhradie
- 54 - Nitra
- 56 - Nitriansky Hradok
- 70 - Liptovská Mara
- 77 - Zemplín

### Key

- ⊙ Oppidum
- ⊕ Central site
- ⊖ ?Central site
- Defended site
- Ritual site
- Undefended La Tene settlement
- ▲ Puchov Culture settlement
- Celto - Dacian settlement



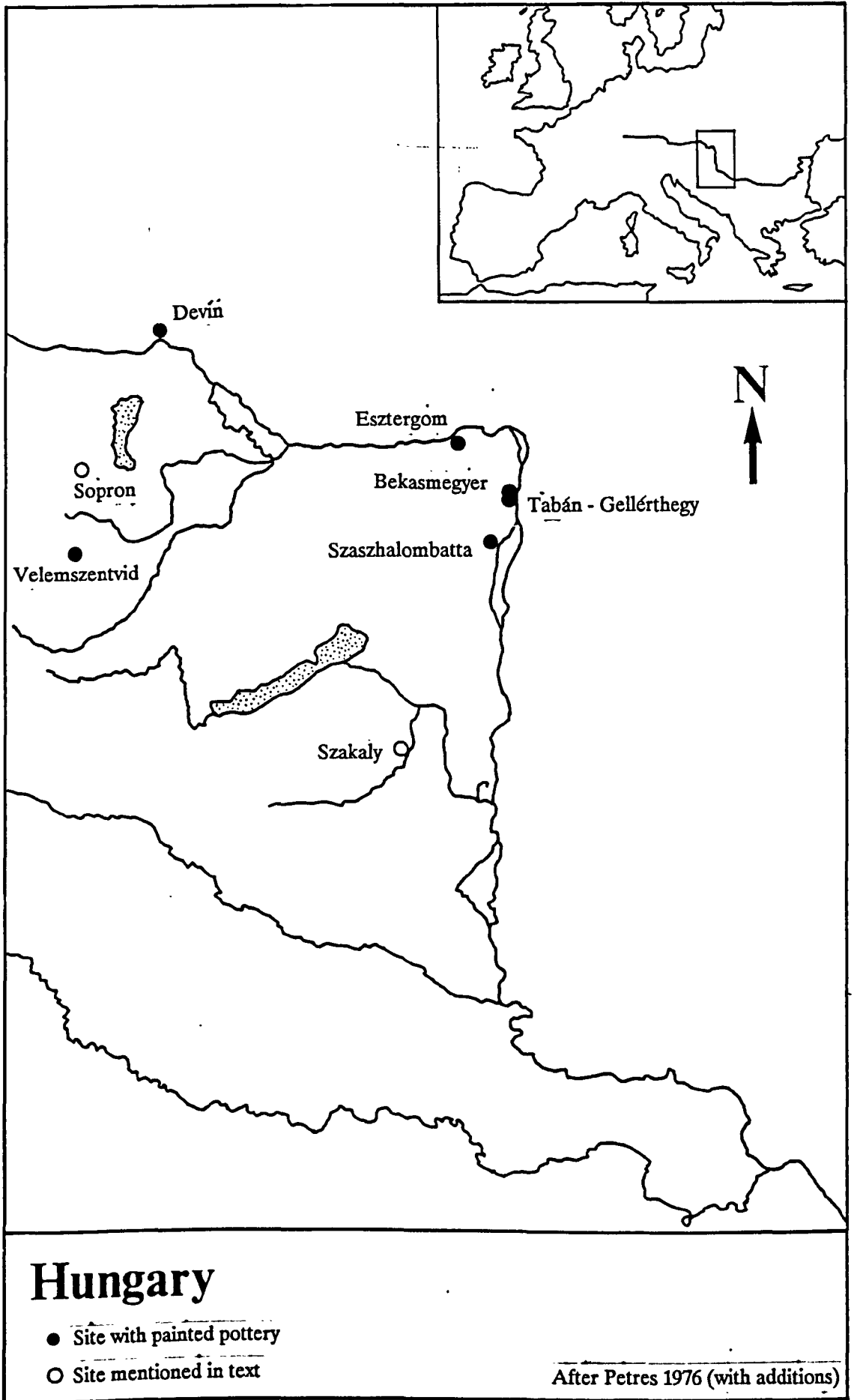


Figure 2.11.

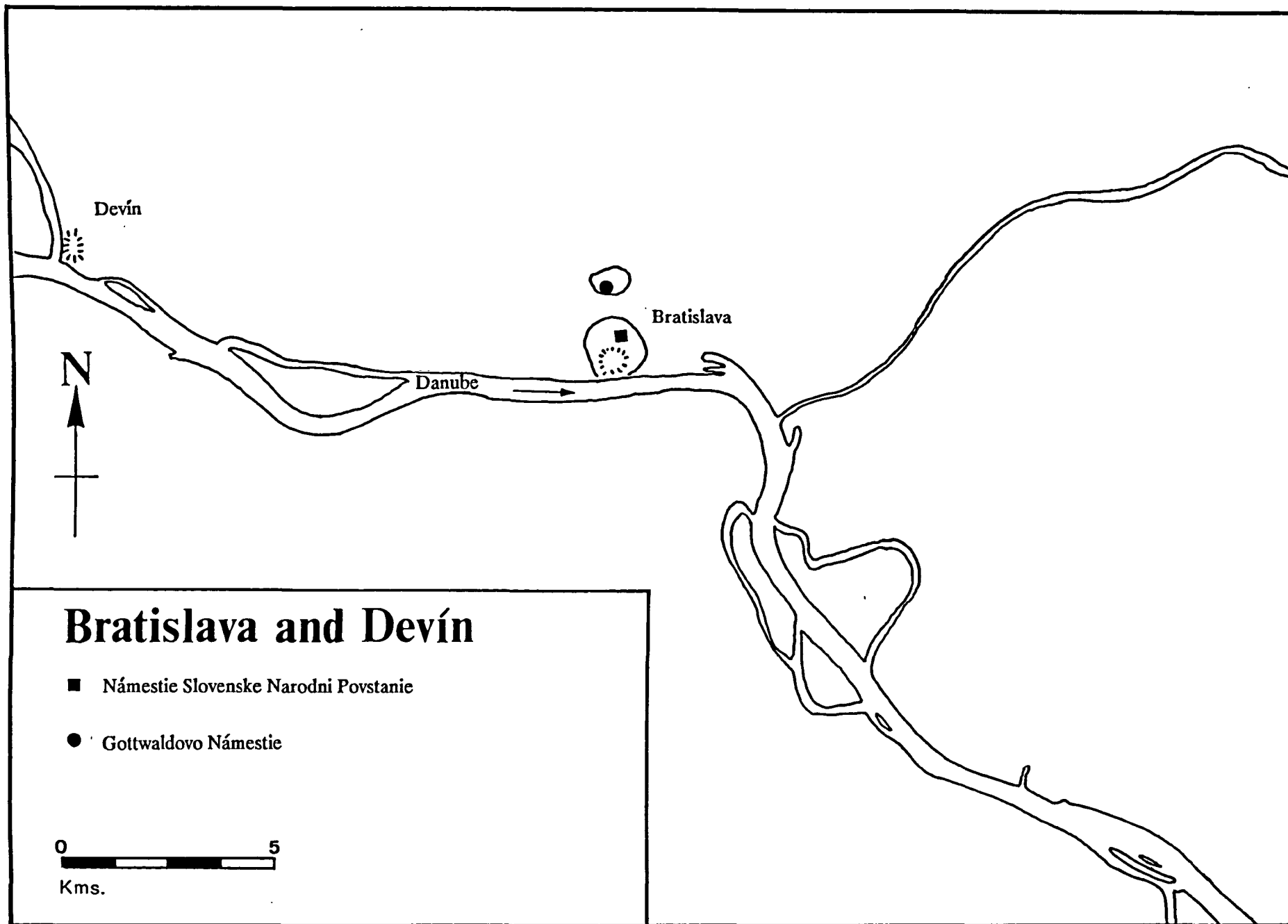


Figure 2.12.

Sources: various

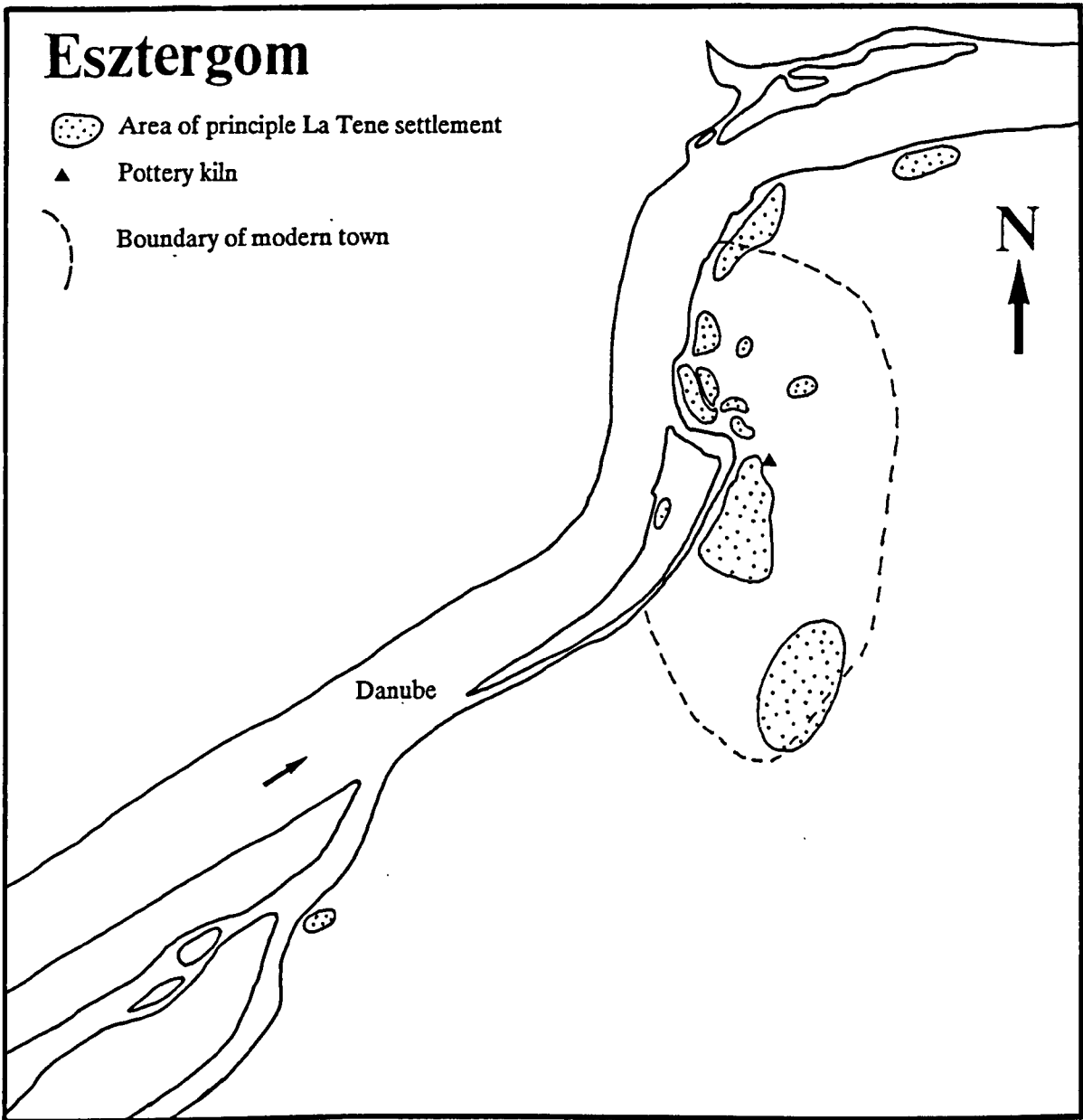


Figure 2.13.

Sources: various

# Komárno

The area of La Tène settlement lies under the modern park (Leninove Sády) and the fortress. The area was levelled during the construction of the fortress in the 17th century and most of the evidence of prehistoric occupation destroyed.

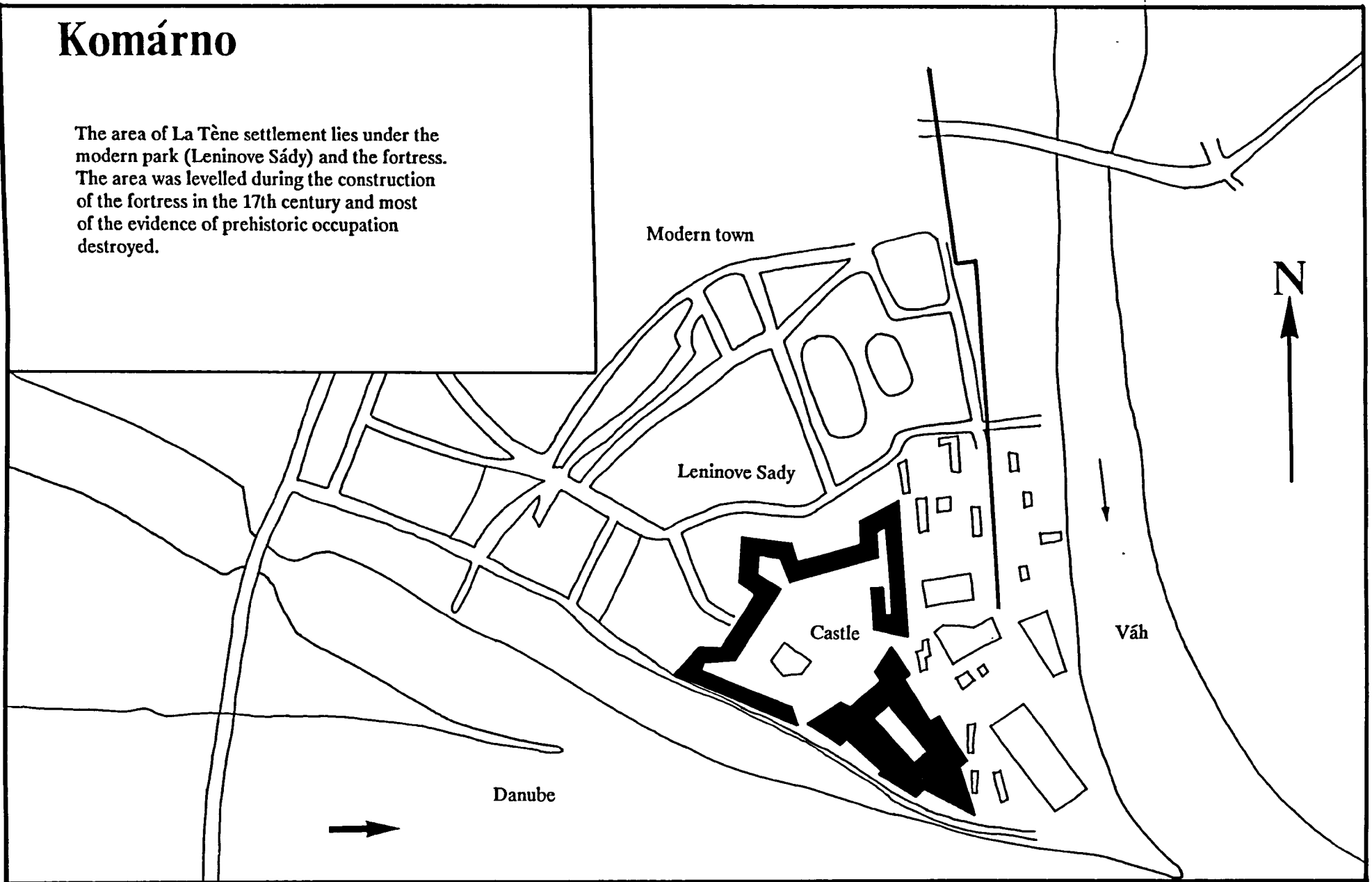


Figure 2.14.

Sources: various

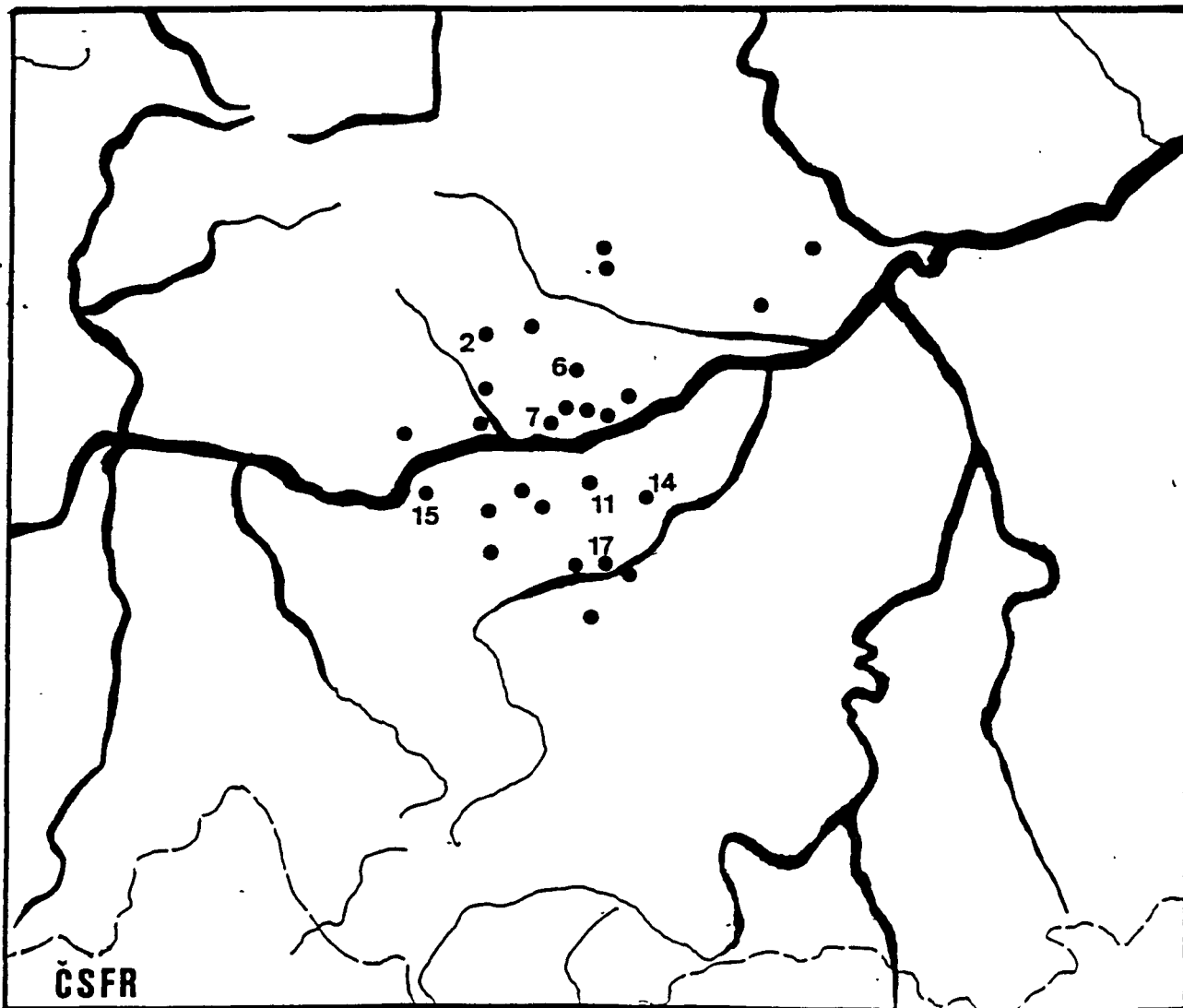


Figure 2.15.

Late Iron Age settlement in Malopolska

(Information from Z. Wozniak)

Tyniec group settlement

- 2 Bolen
- 6 Krzeslawicee
- 7 Mogila
- 11 Podleze
- 14 Targowisko
- 15 Tyniec
- 17 Wielicka





Figure 2.16.

Sites of the Tyniec group near Nowa Huta  
(After Poleska and Tobola 1984)

- 85 Krzeslawice
- 88 Mogila
- 89 Pleszow
- 97 Wyciaze
- 103 Clo

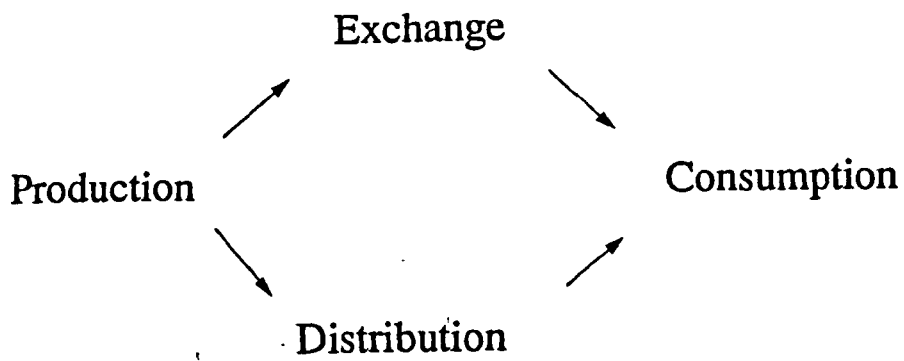
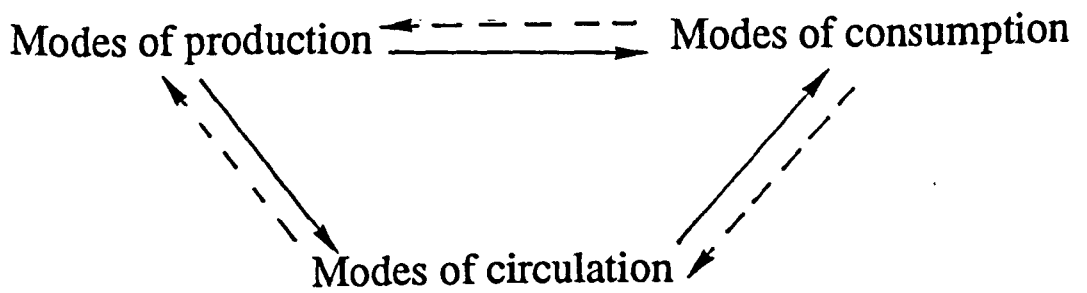


Table 3.1

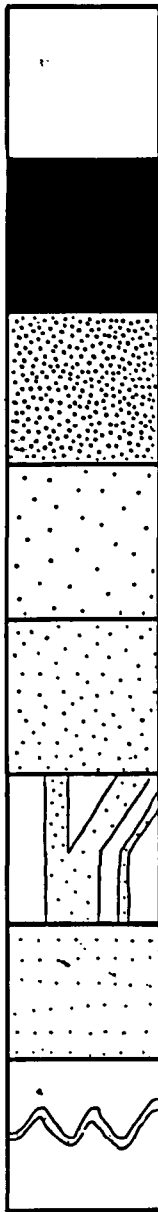


Solid lines - Productive consumption

Broken lines - Consumptive production

Table 3.2

# Key



**White**

**Black**

**Dark Red**

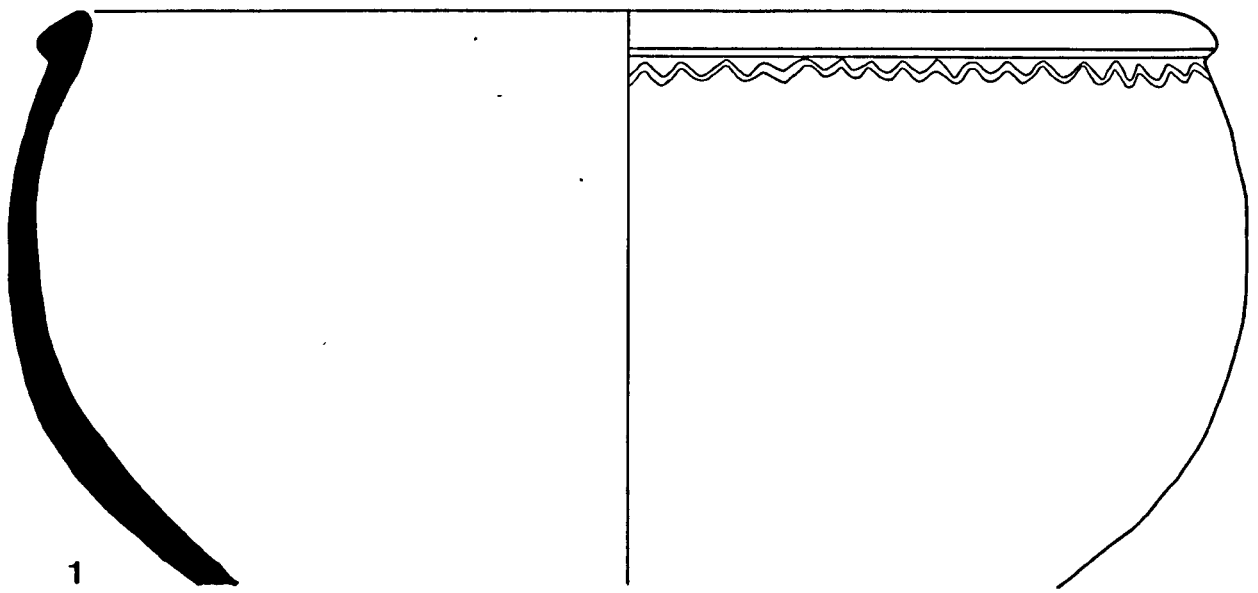
**Light Red**

**Unpainted**

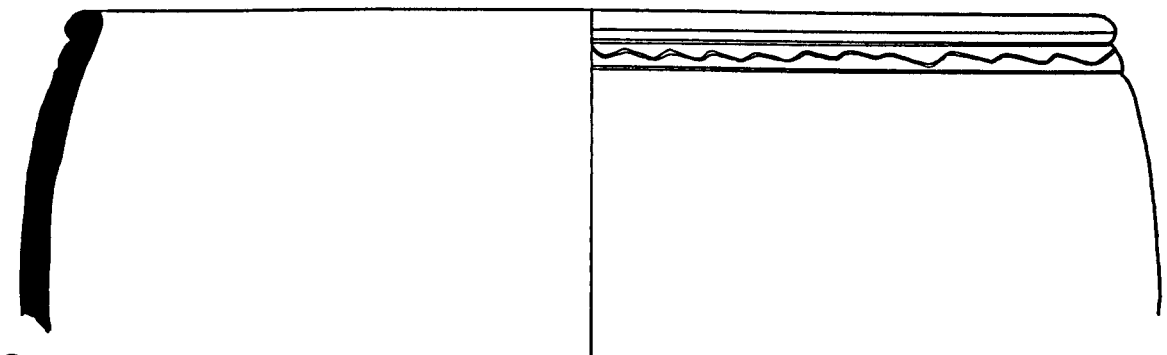
**Grey Decoration**

**Damaged**

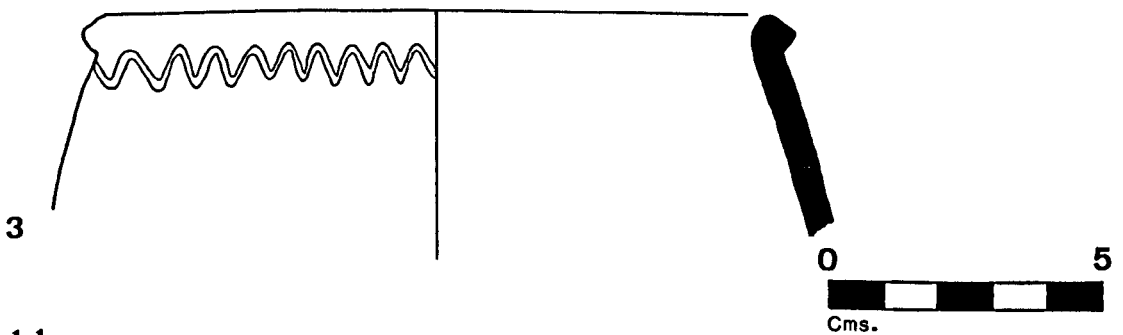
**Incised lines**



1



2

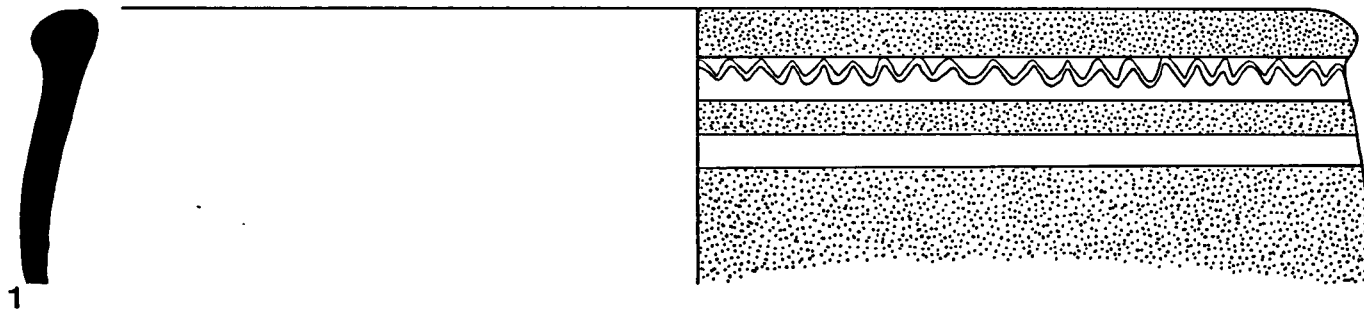


3

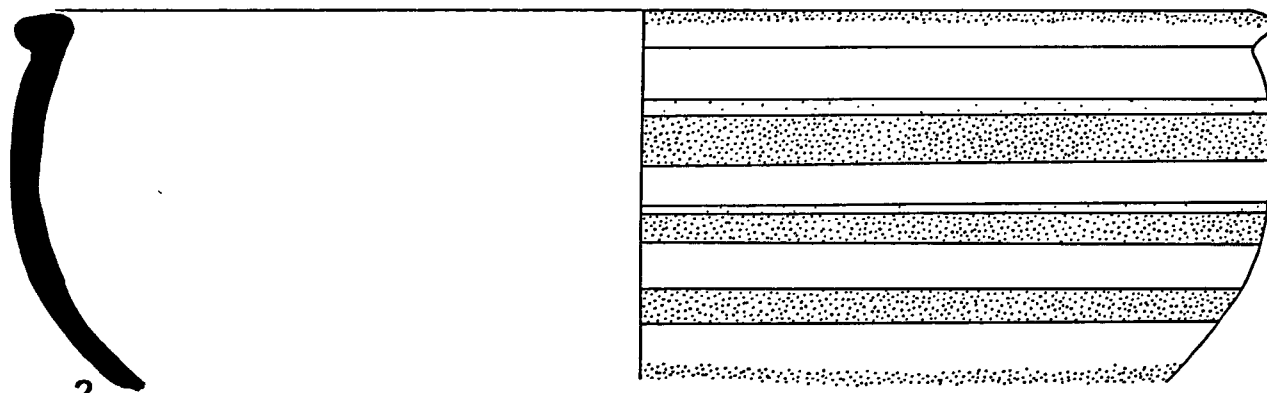


Figure 4.1.1.

1) Stradonice 104546 2) Stradonice 104561 3) Stradonice 104588



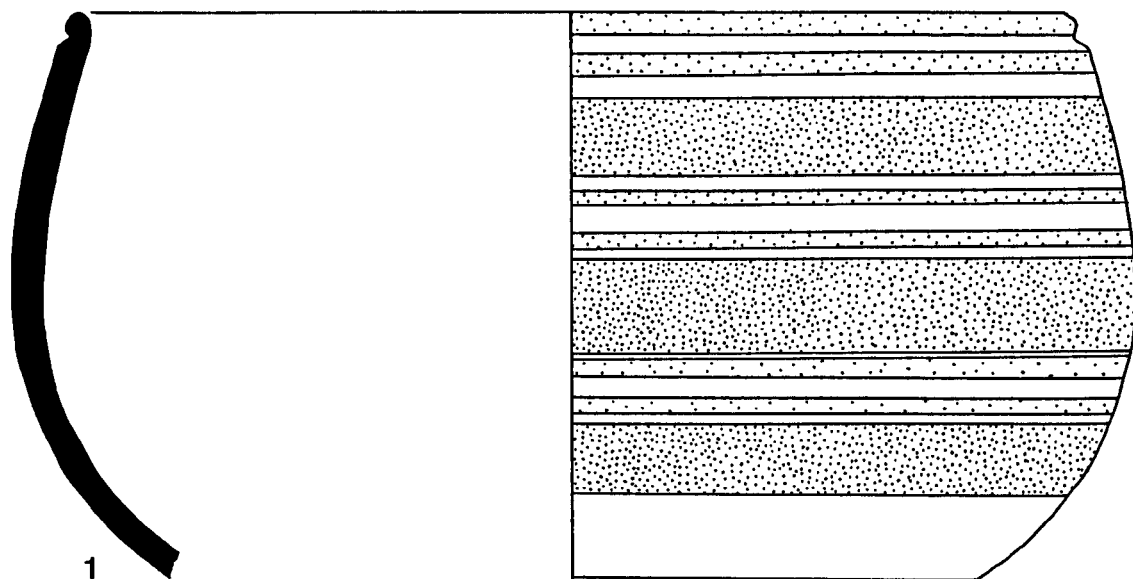
1



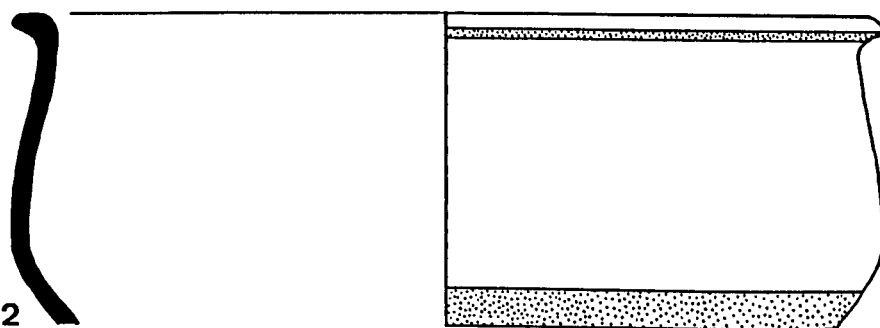
2

Figure 4.1.2.  
1) Stradonice 104566 2) Stradonice 104343

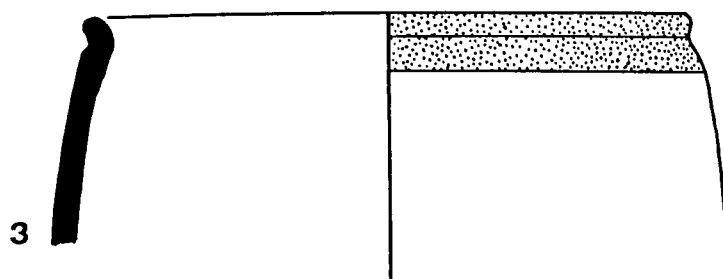




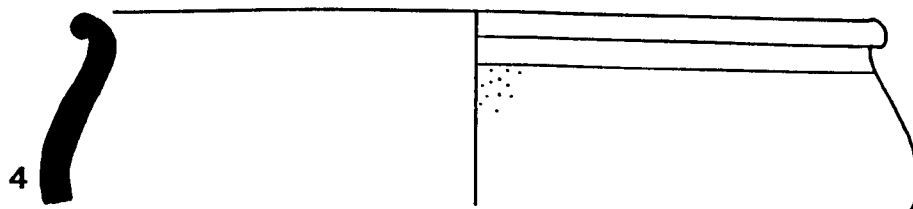
1



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3



4

Figure 4.1.3.

1) Taban 36.57.39 2) Zemplín 28/55 3) Taban 1936/40-36.67.28  
4) Nitriansky Hradok c4 - 137



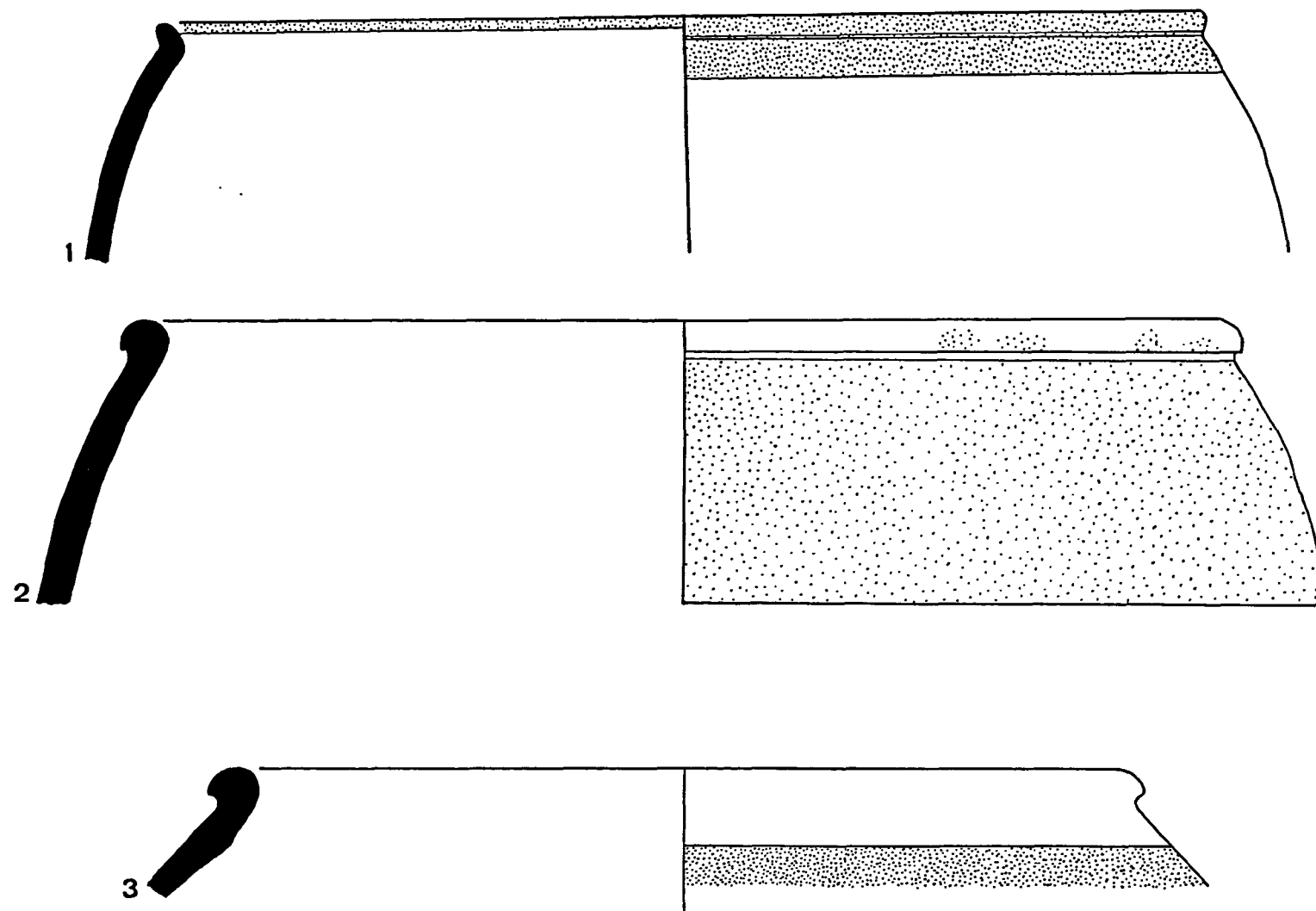
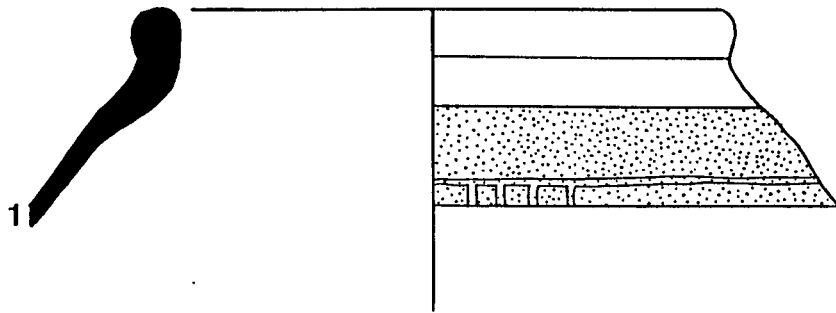
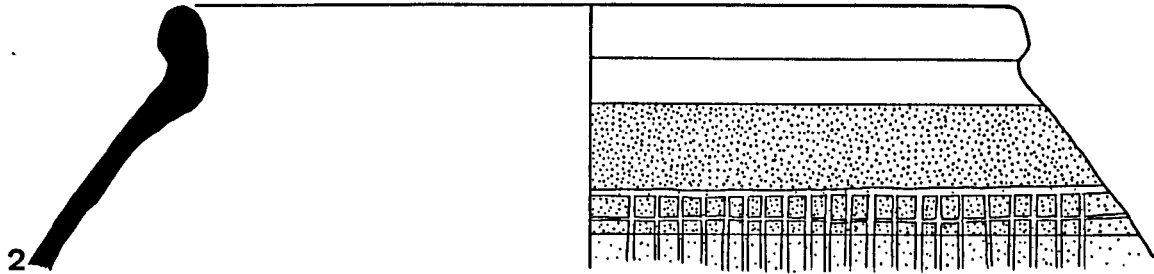


Figure 4.1.4.  
1) Taban 36.67.27 2) Esztergom 75.673.1 3) Mogiła

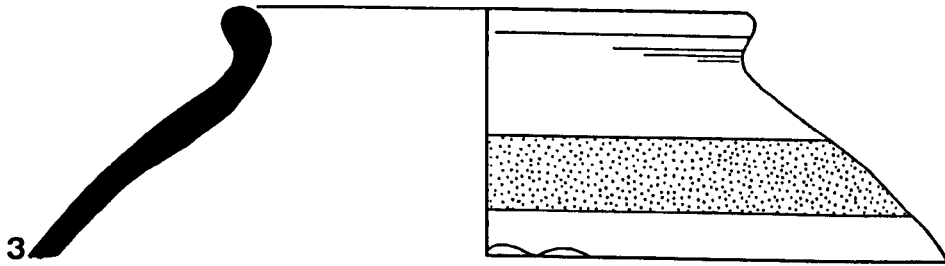




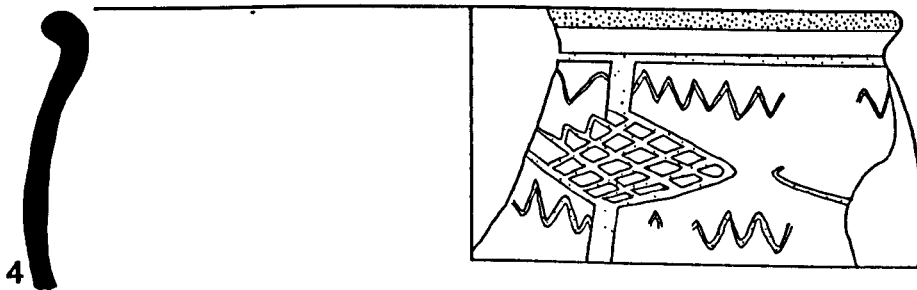
1



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4

Figure 4.1.5.  
 1) Třisov 134559 2) Třisov 134559 3) Esztergom 75.404.1  
 4) Zemplin 22/55



Cms.



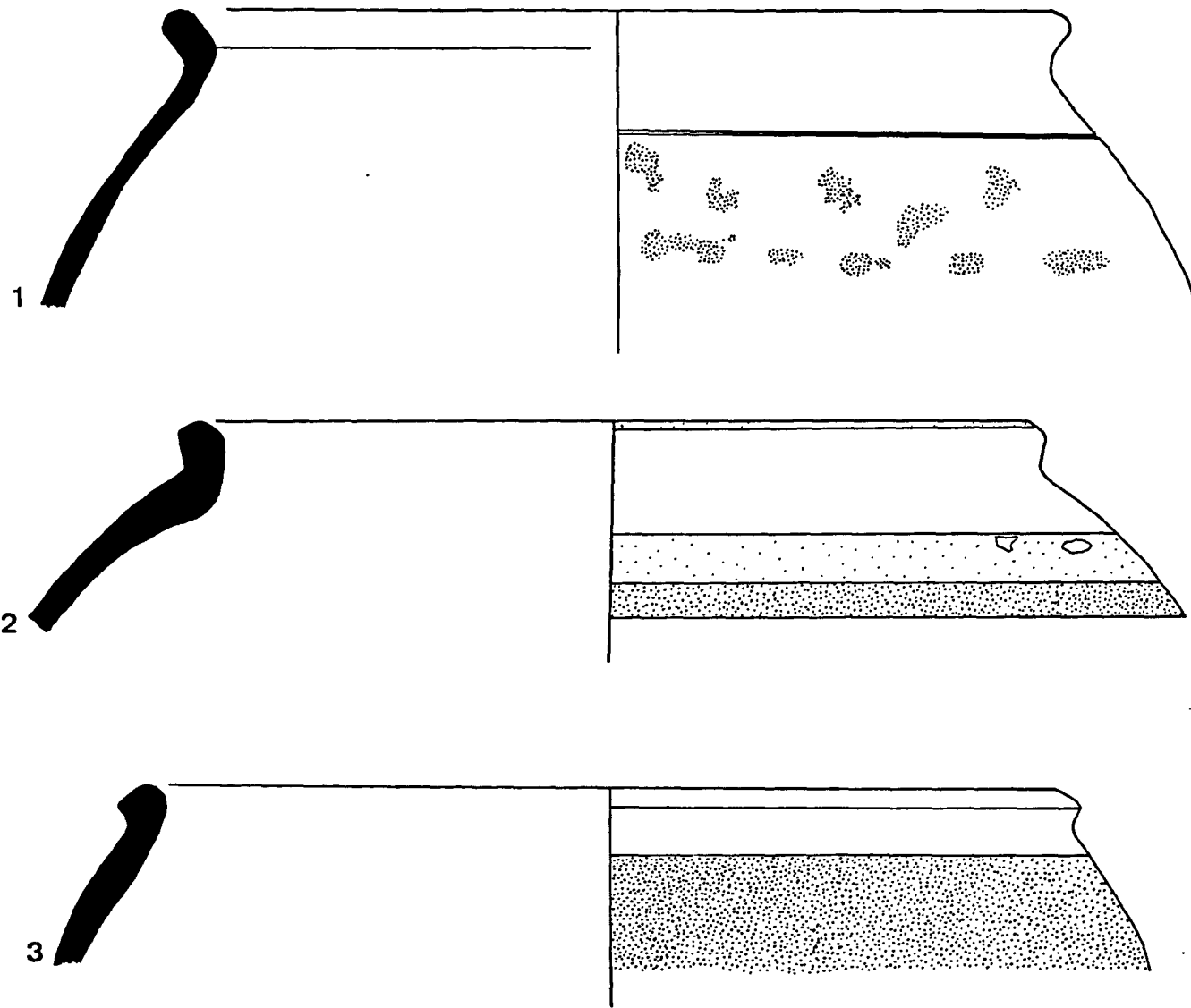


Figure 4.1.6.  
1) Nevezice 2) Stradonice 104651 3) Mogiła WH8/405 - 199/55



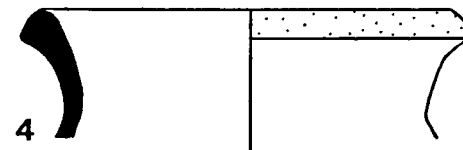
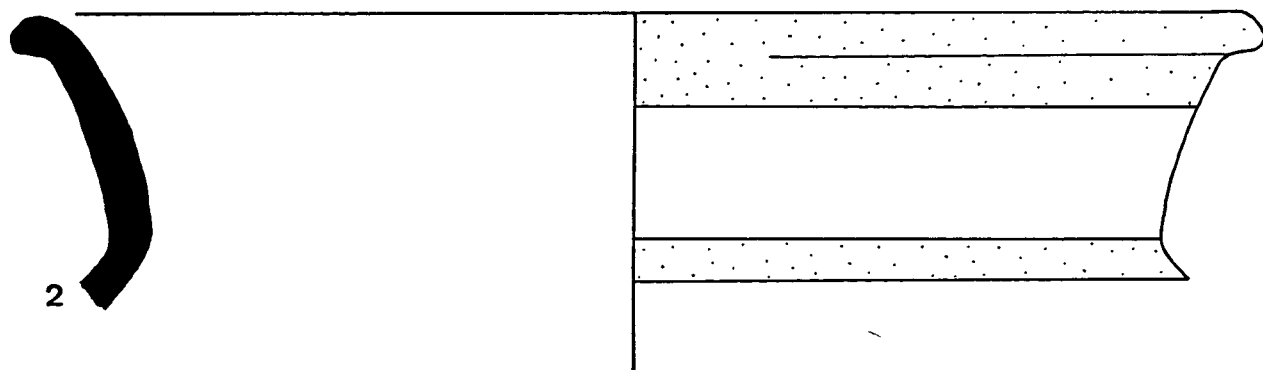
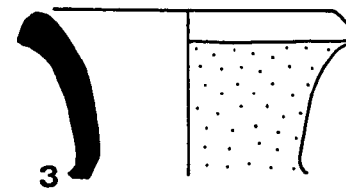
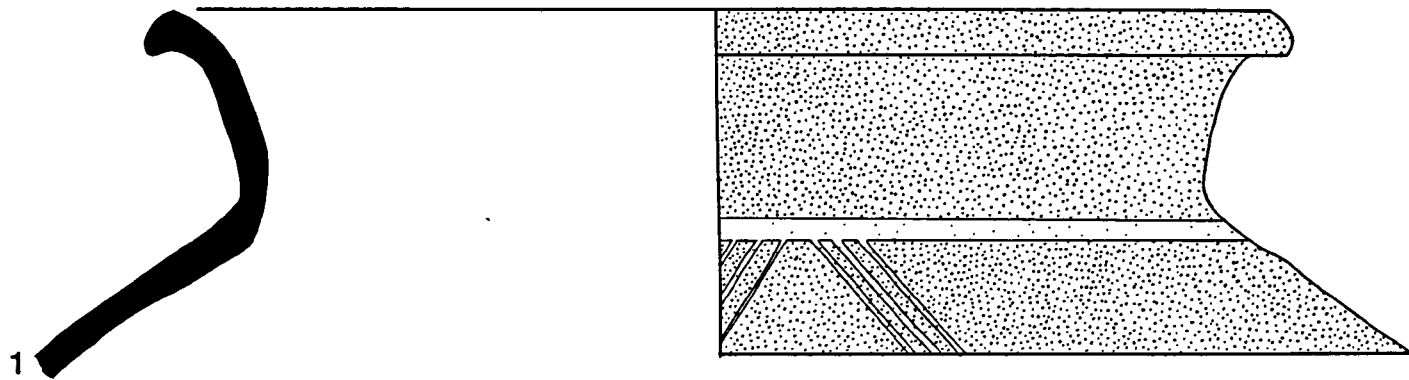


Figure 4.2.1.

- 1) Esztergom 2) Zemplín 4/8 CVIII/9 3) Pleszow 80/59  
4) Krzesławice 64//80 sk.57



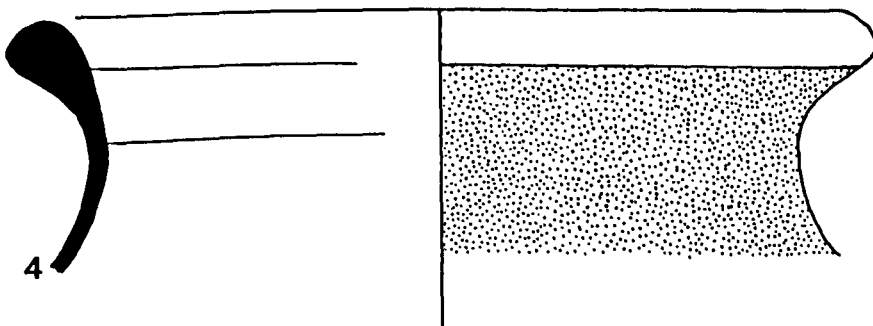
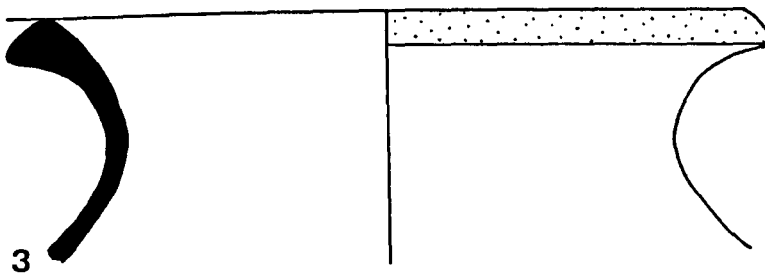
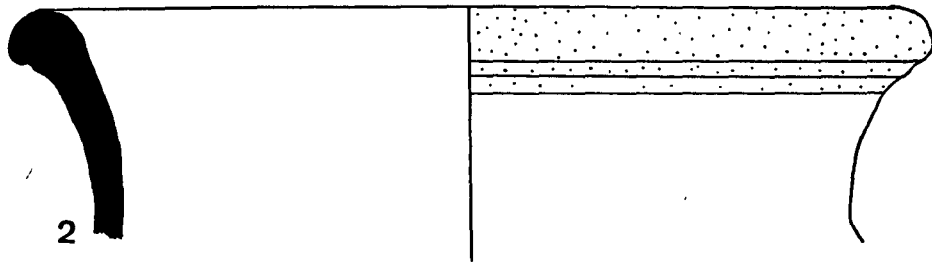
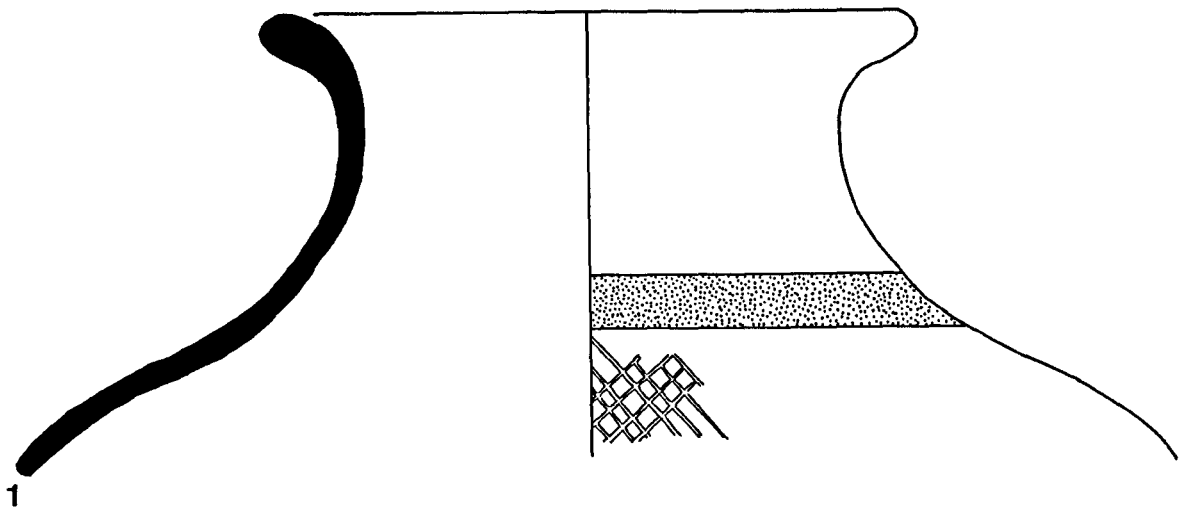
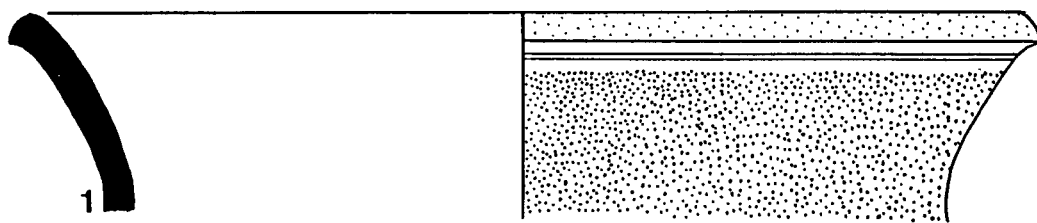


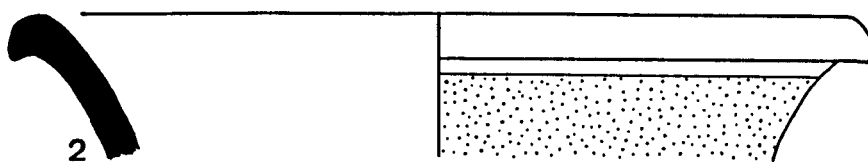
Figure 4.2.2.

- 1) Stradonice 104829 2) Mogiła 61/59 3) Krzesławice 1/82 sk.23  
 4) Tyniec Zawawozie 114c

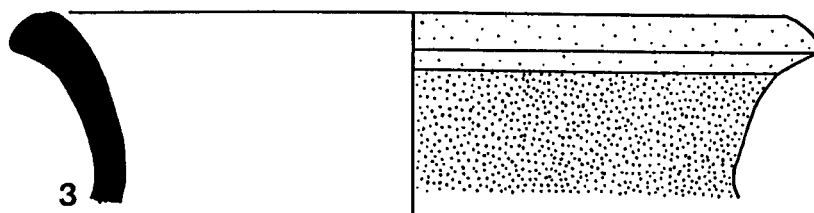




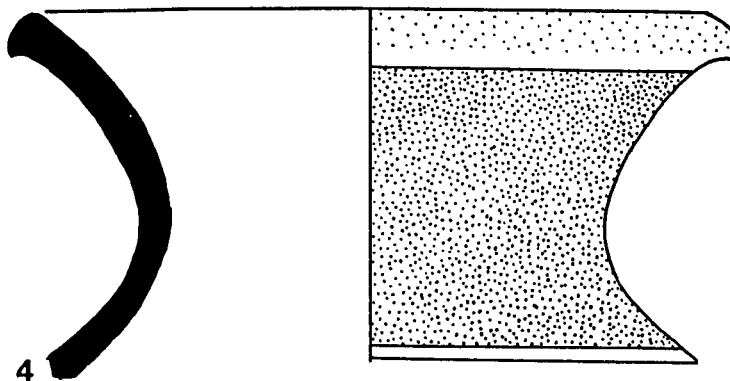
1



2



3



4



Figure 4.2.3.

1) Esztergom 75.64.1 2) Nitriansky Hradok E6/115 1957

3) Nitriansky Hradok 123/50.859 4) Budapest - Gellerthegy 53.18.11

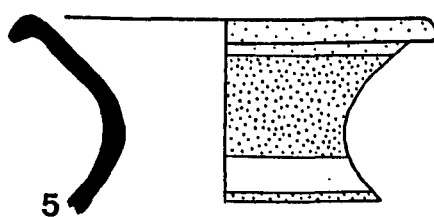
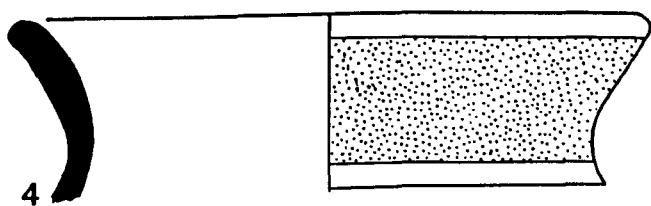
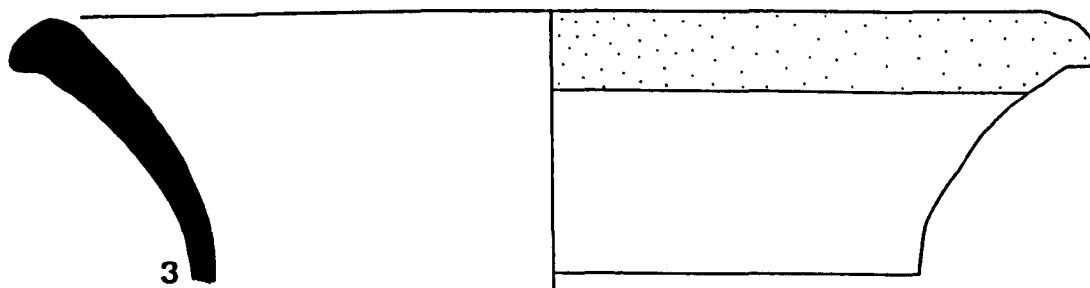
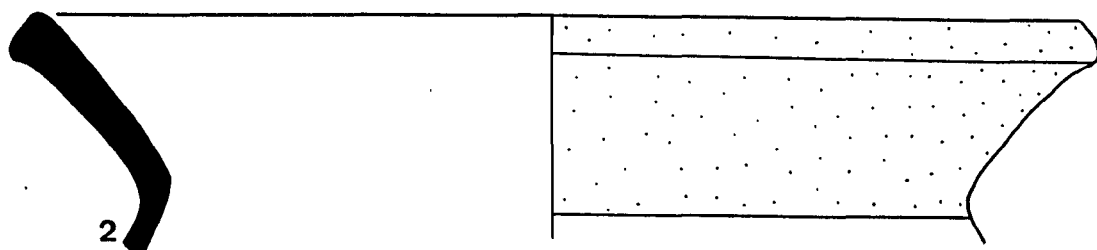
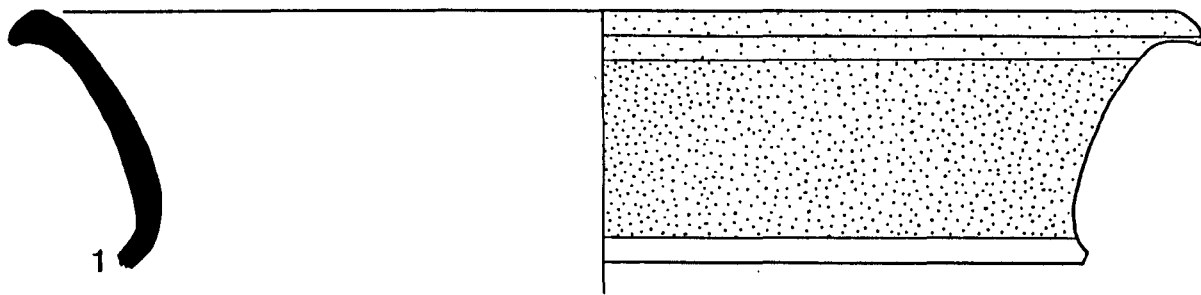
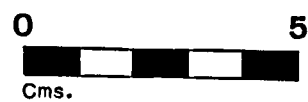


Figure 4.2.4.  
1 - 5) Zemplín 25/55



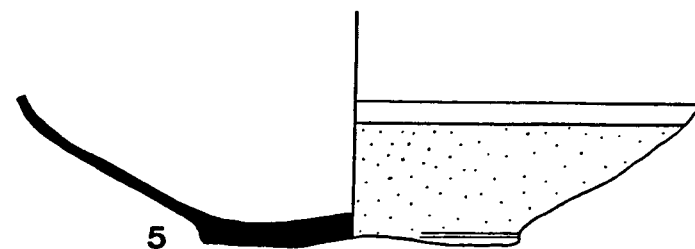
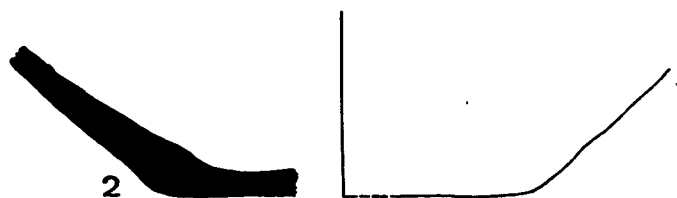
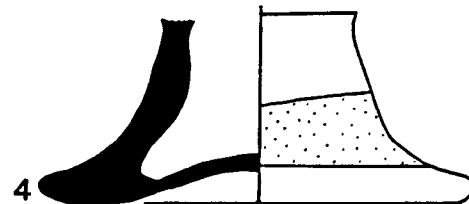
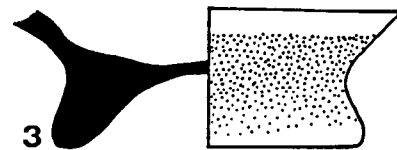
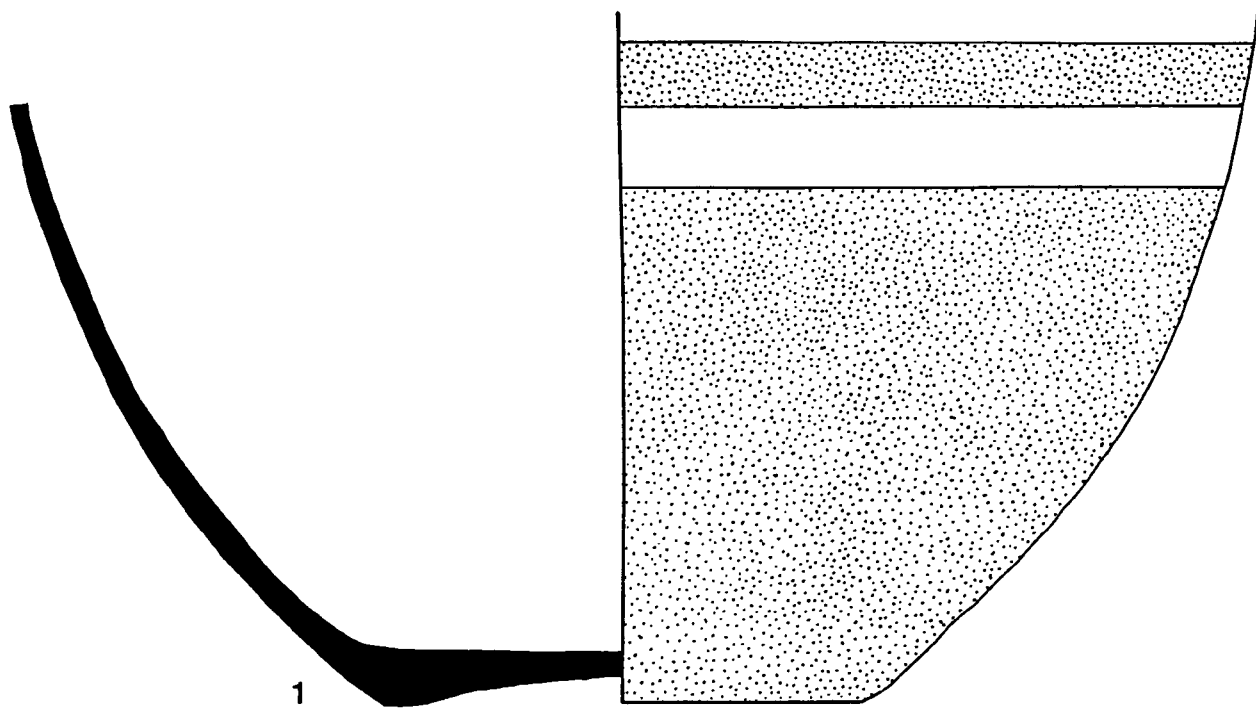
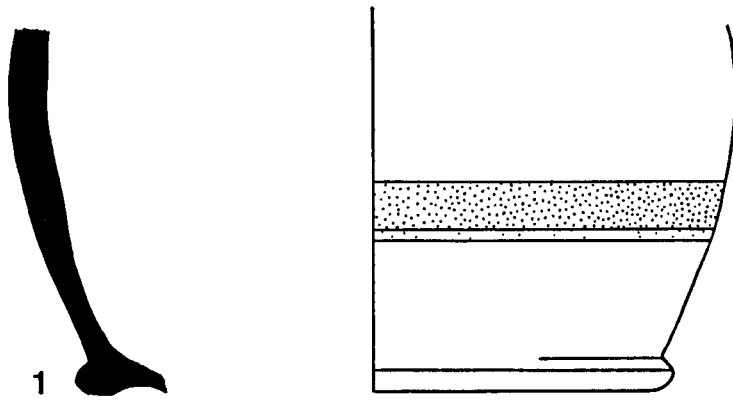
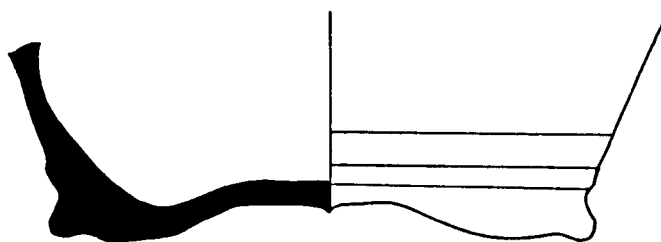


Figure 4.3.1.

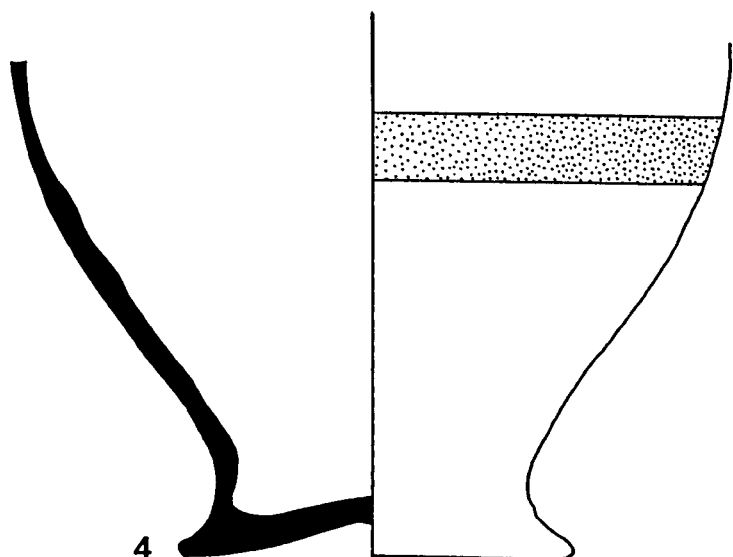
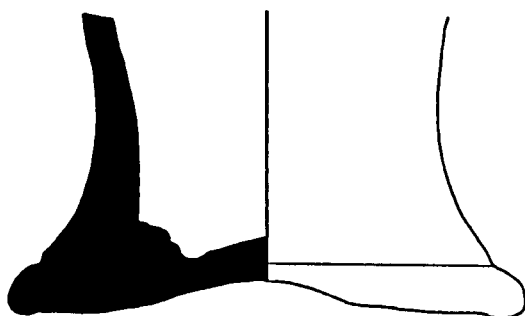
- 1) Pleszow 15/56A 2) Targowisko 746 3) Krzesławice 40/81 sk.76  
 4) Zemplín 22/55 5) Pleszow 15/54



1



3



4



Figure 4.3.2.

- 1) Gellerthegy 1946.6.5 2) Stradonice 104671 3) Stradonice 104672  
 4) Krzesławice sk. 85 22/82

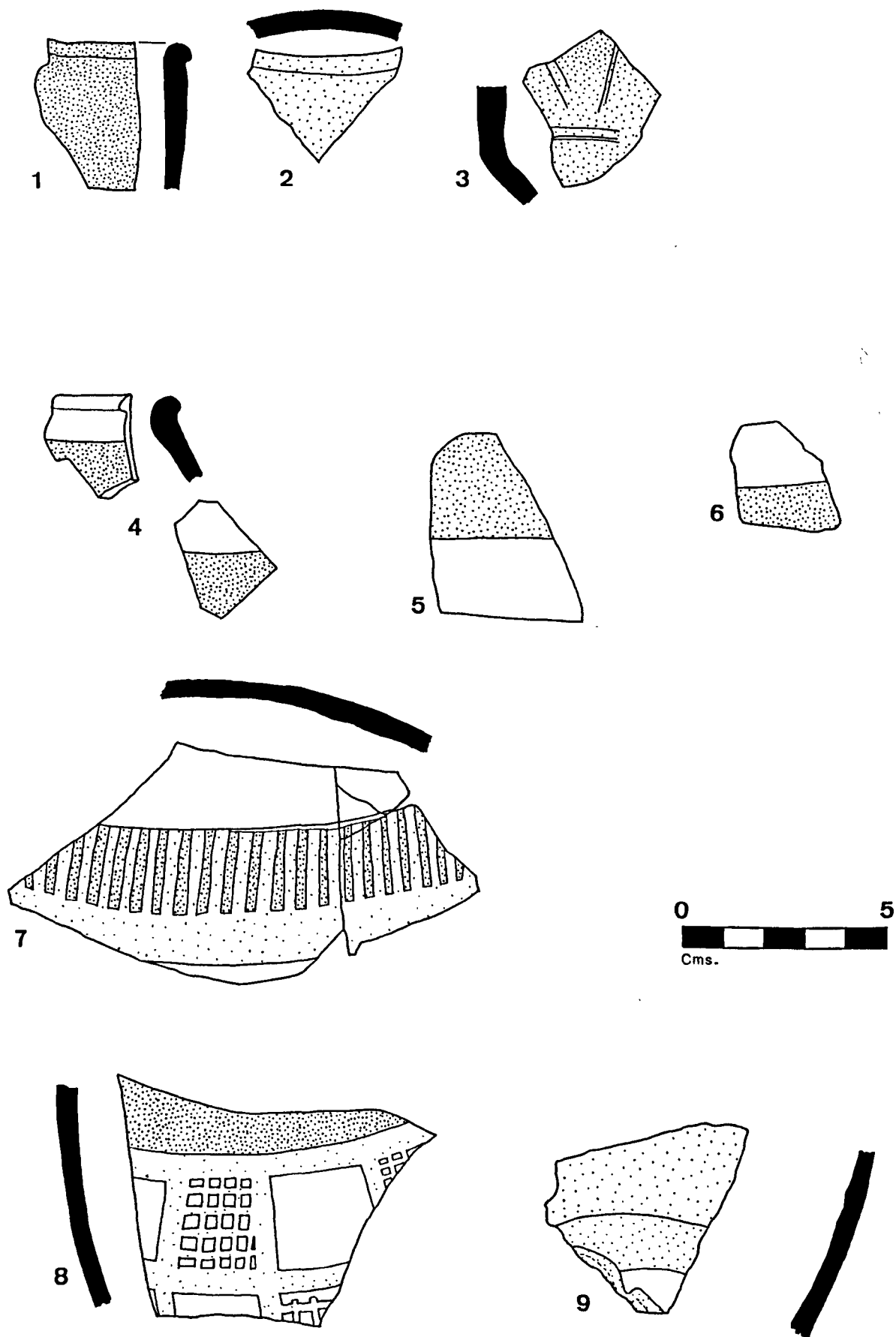


Figure 4.4.1.

- 1) Kuřimany 24.916 2) Kuřimany 24.913 3) Kuřimany 24.912  
 4) Sedlo - from drawings by J. Waldhauser 5) Ceske Lhotice H82 42/11  
 6) Ceske Lhotice H82 32/65 7) Zavist D/47 (D162) 8) Zavist D47  
 9) Nevezice 83.227



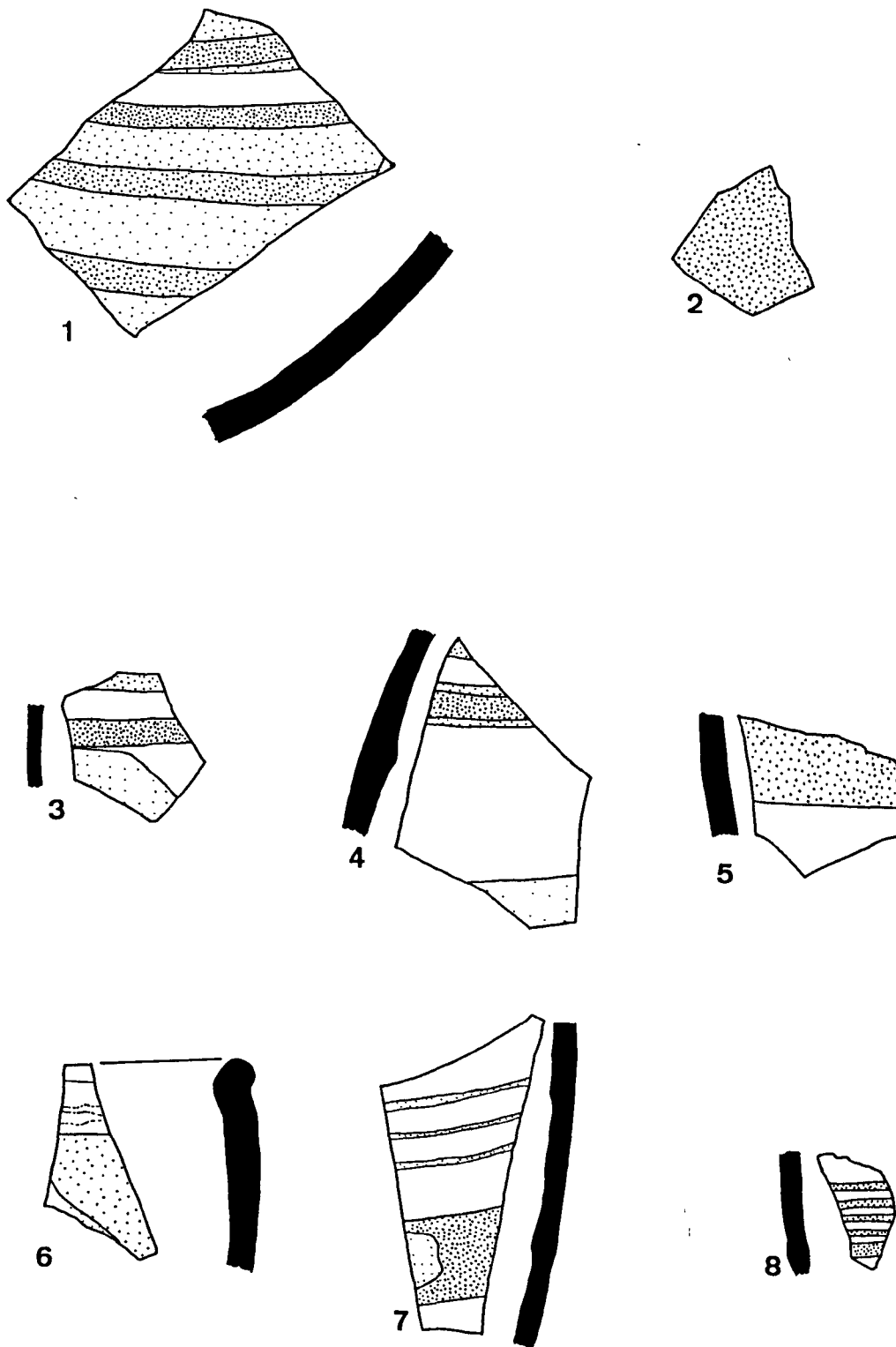
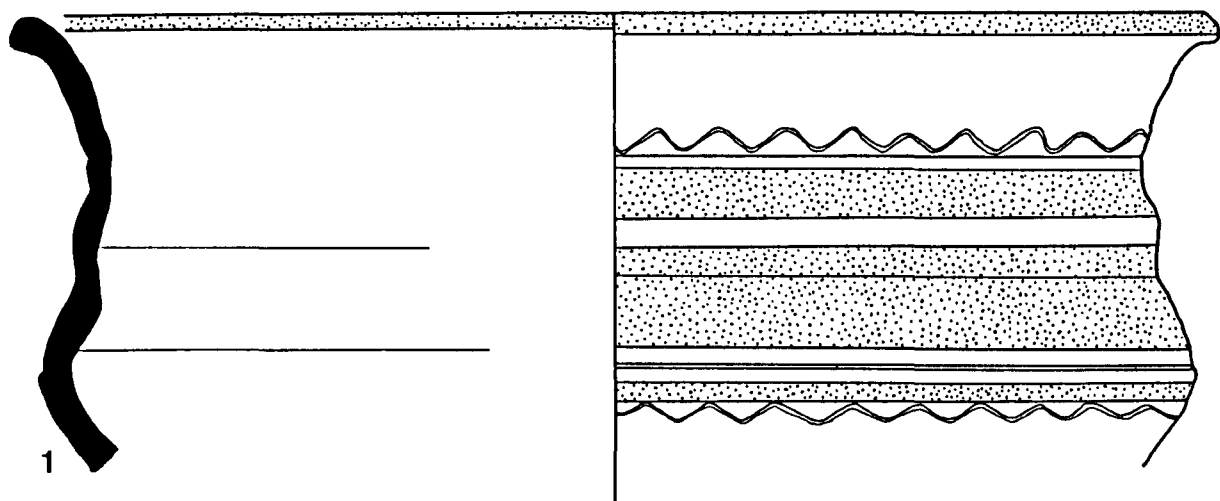


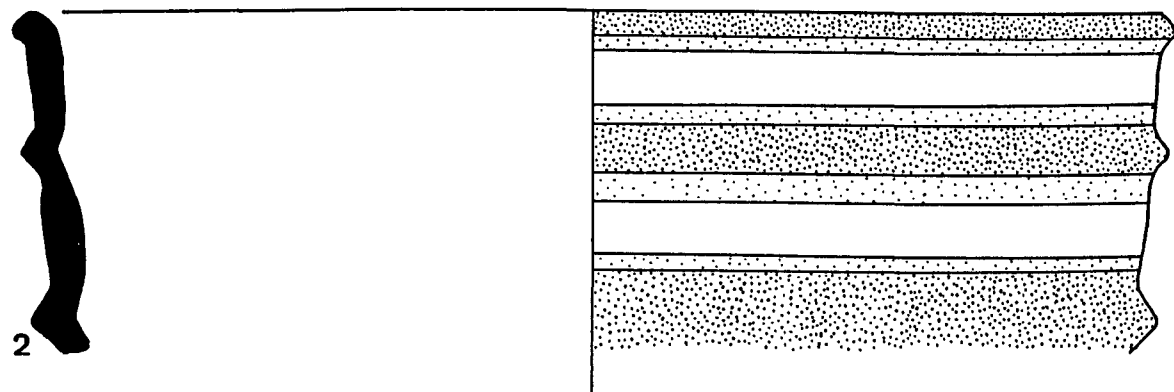
Figure 4.4.2. .

- 1) Nova Ves 10617 2) Kašperske Hory cs6 3) Čertova Ruka A3846  
 4) Čertova Ruka A3814 5) Vikletice 10/66 - 2 6) Radovesice  
 7) Radovesice 8) Vikletice 2





1



2

Figure 4.5.

1) Stradonice 104545 (2263) 2) Stradonice 104846



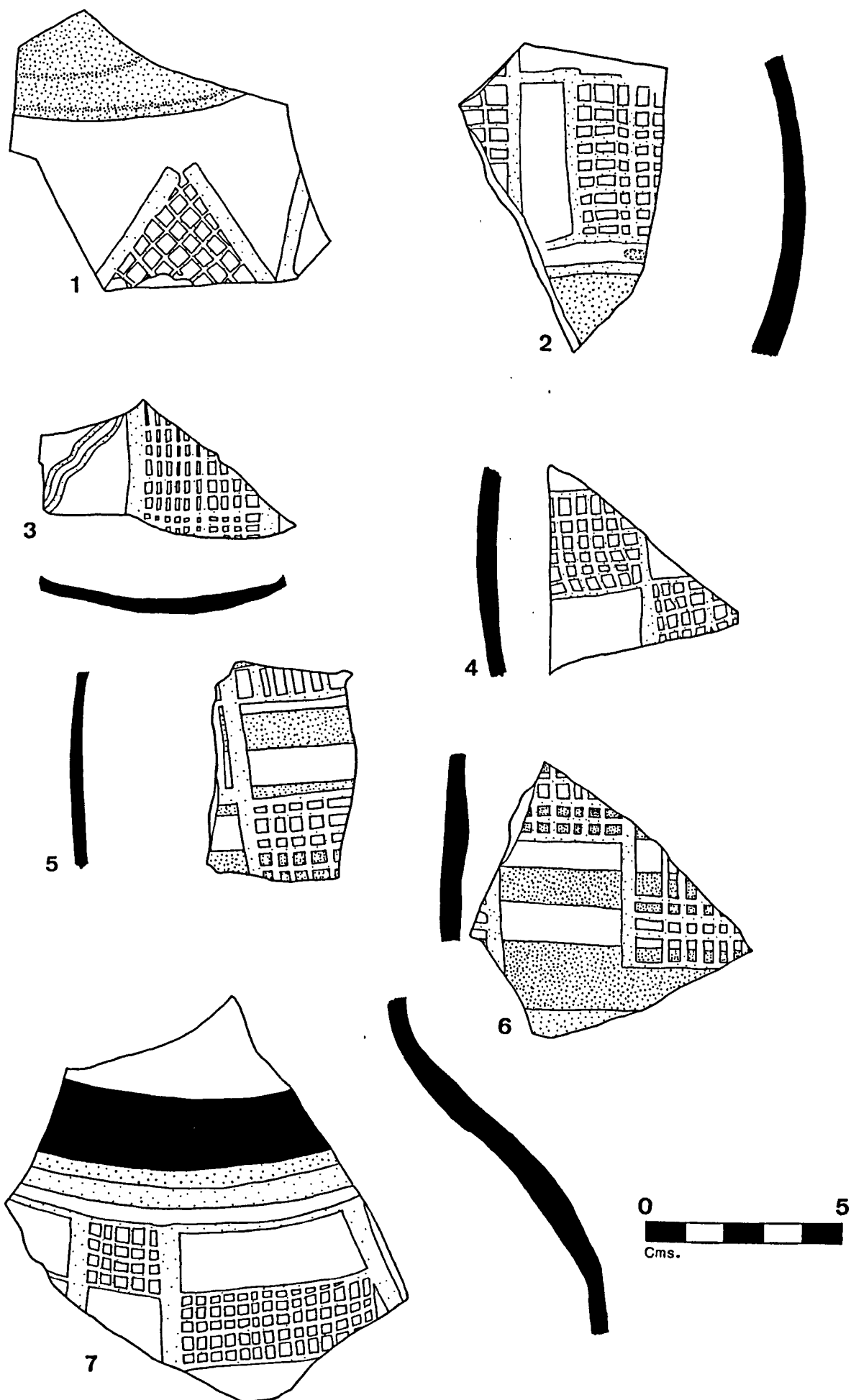


Figure 4.6.1.  
 All sherds from Stradonice. 1) 105592 2) 104604 3) 104606 4) 104620  
 5) 104605 6) 104624 7) 104600

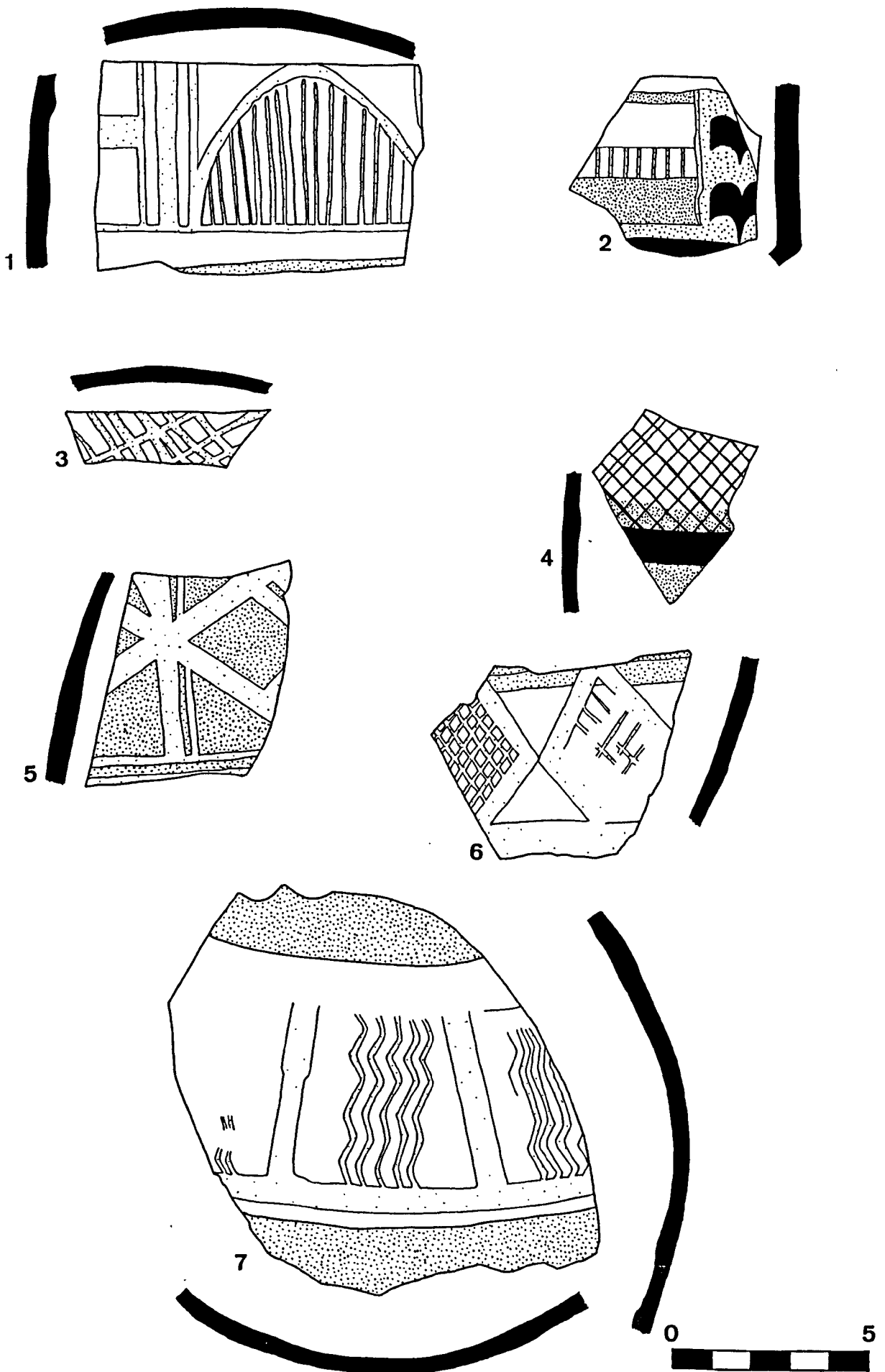


Figure 4.6.2.

1 - 6 Stradonice. 1) 104630 2) 104644 3) 104621 4) 104625  
 5) 104642 6) 104638 7) Trisov 104632

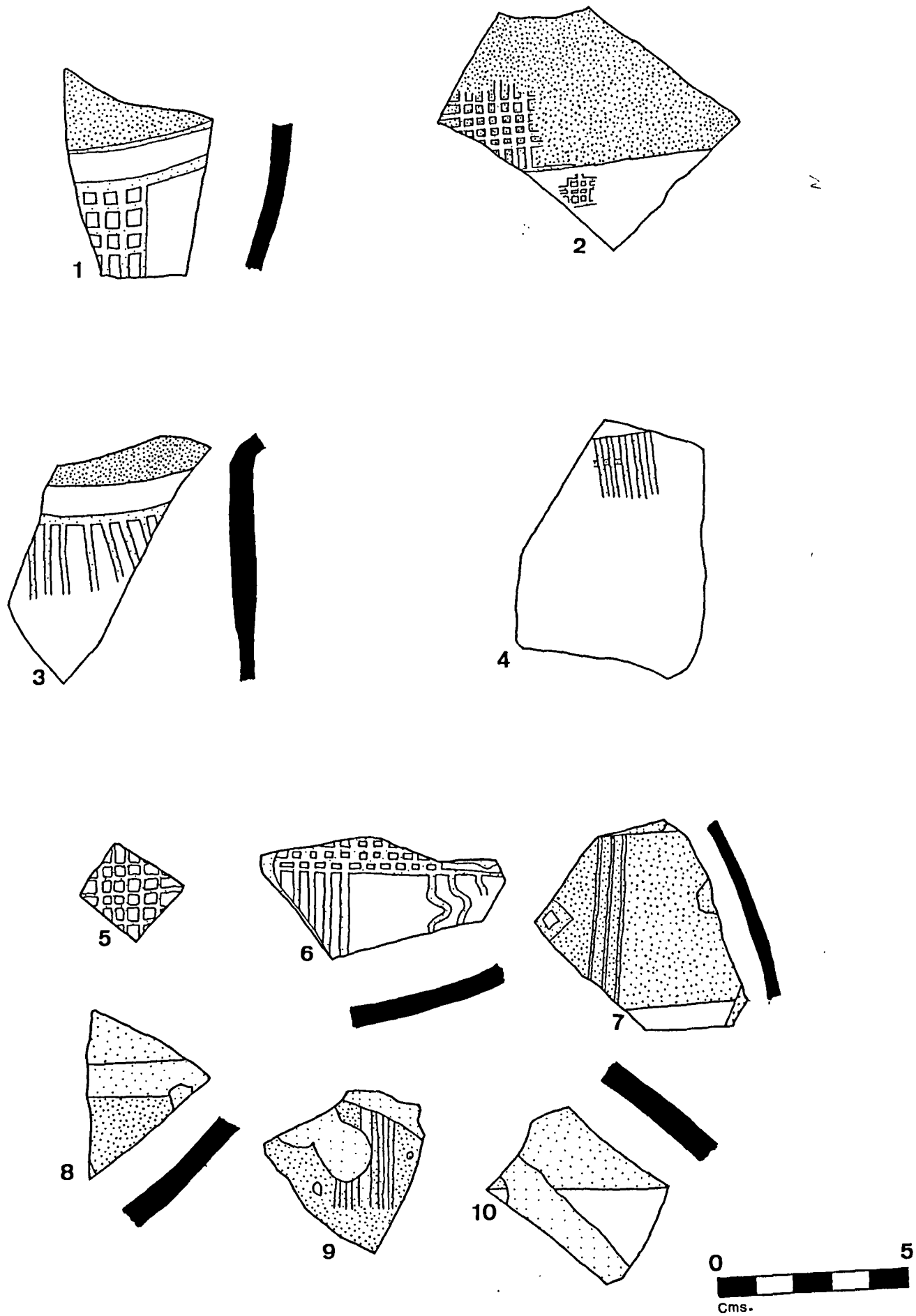


Figure 4.6.3.

- 1) Liptovska Mara III, sVIII/68-02 2) Nitra Hrad 3) Divinka A5540  
 4) Nitriansky Hradok 1958 c4 137 5) Mogiła 8/384 75/55 6) Mogiła  
 8/397 139/55 7) Mogiła 546/55 8) Mogiła 8/405 203/55 9) Mogiła  
 10) Mogiła 43/56

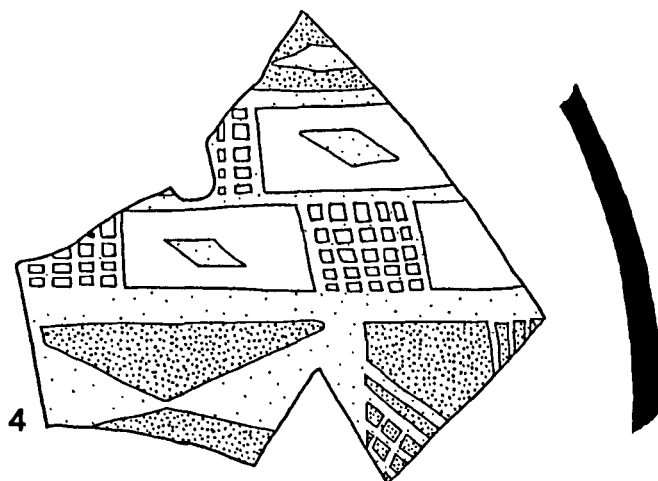
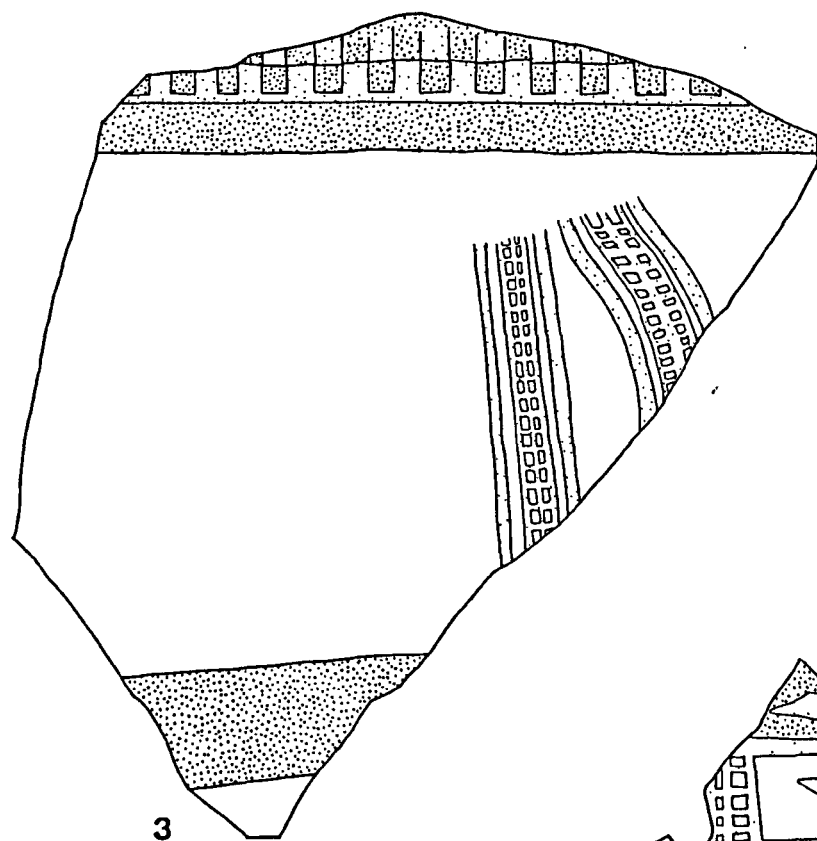
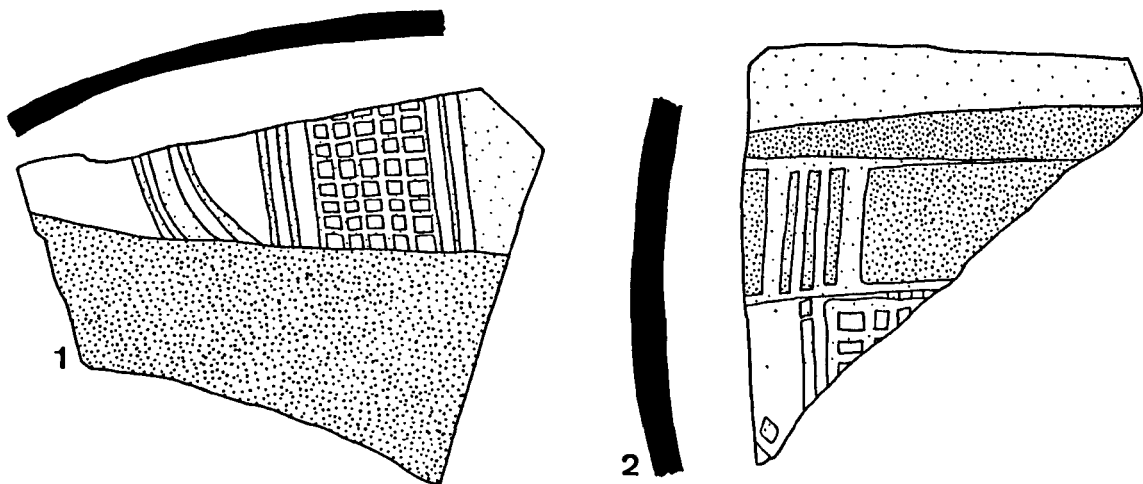


Figure 4.6.4.  
 1) Krzesławice sk. 23 2) Esztergom 68.38.8 3) Velemszentvid  
 4) Esztergom 71.35.69a

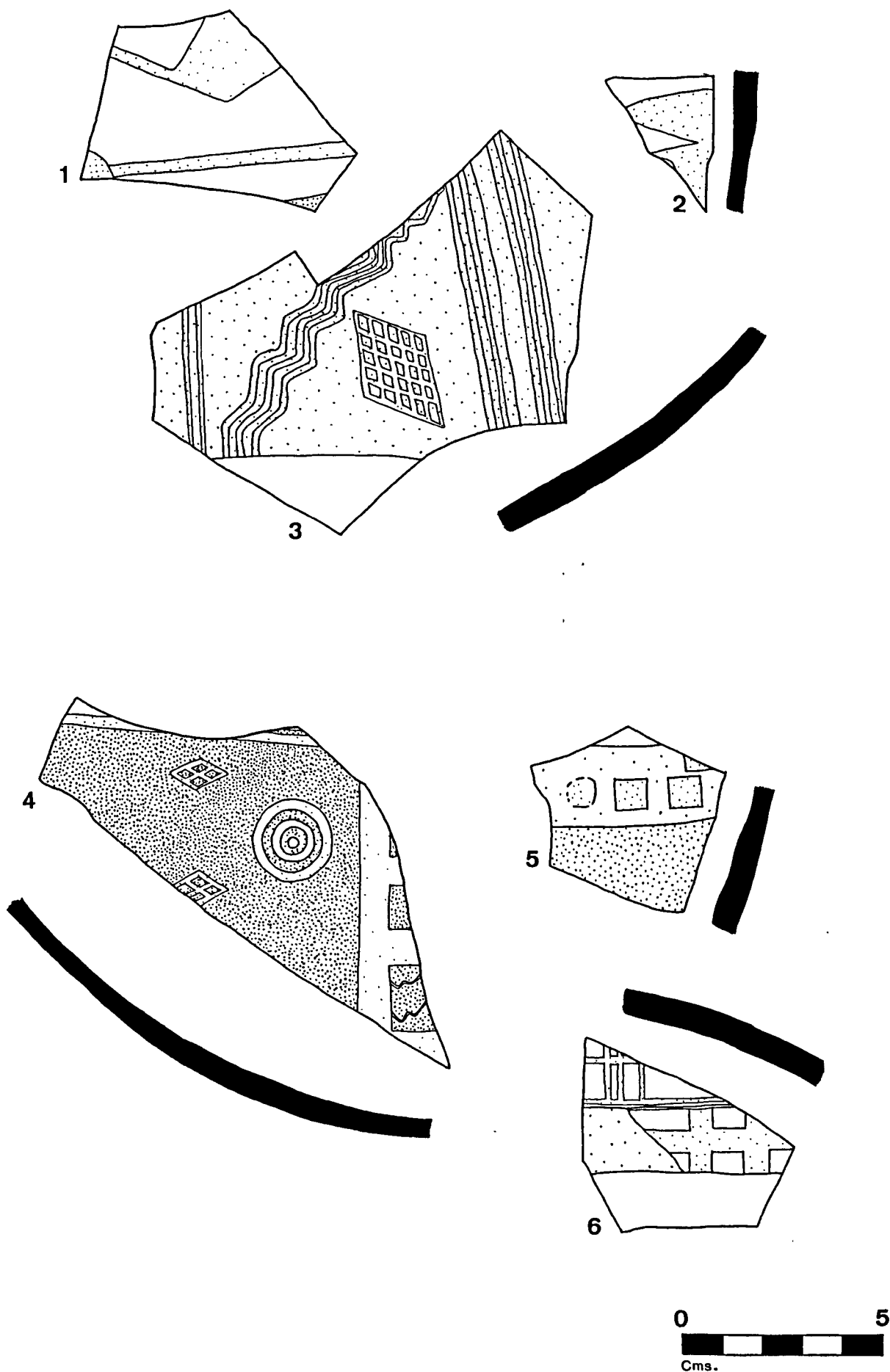


Figure 4.6.5.

- 1) Esztergom 73/172.4 2) Esztergom 76/260.3 3) Esztergom 75/233.3  
 4) Taban 1935 24d 5) Esztergom 75.238.2 6) Esztergom 75.364.2

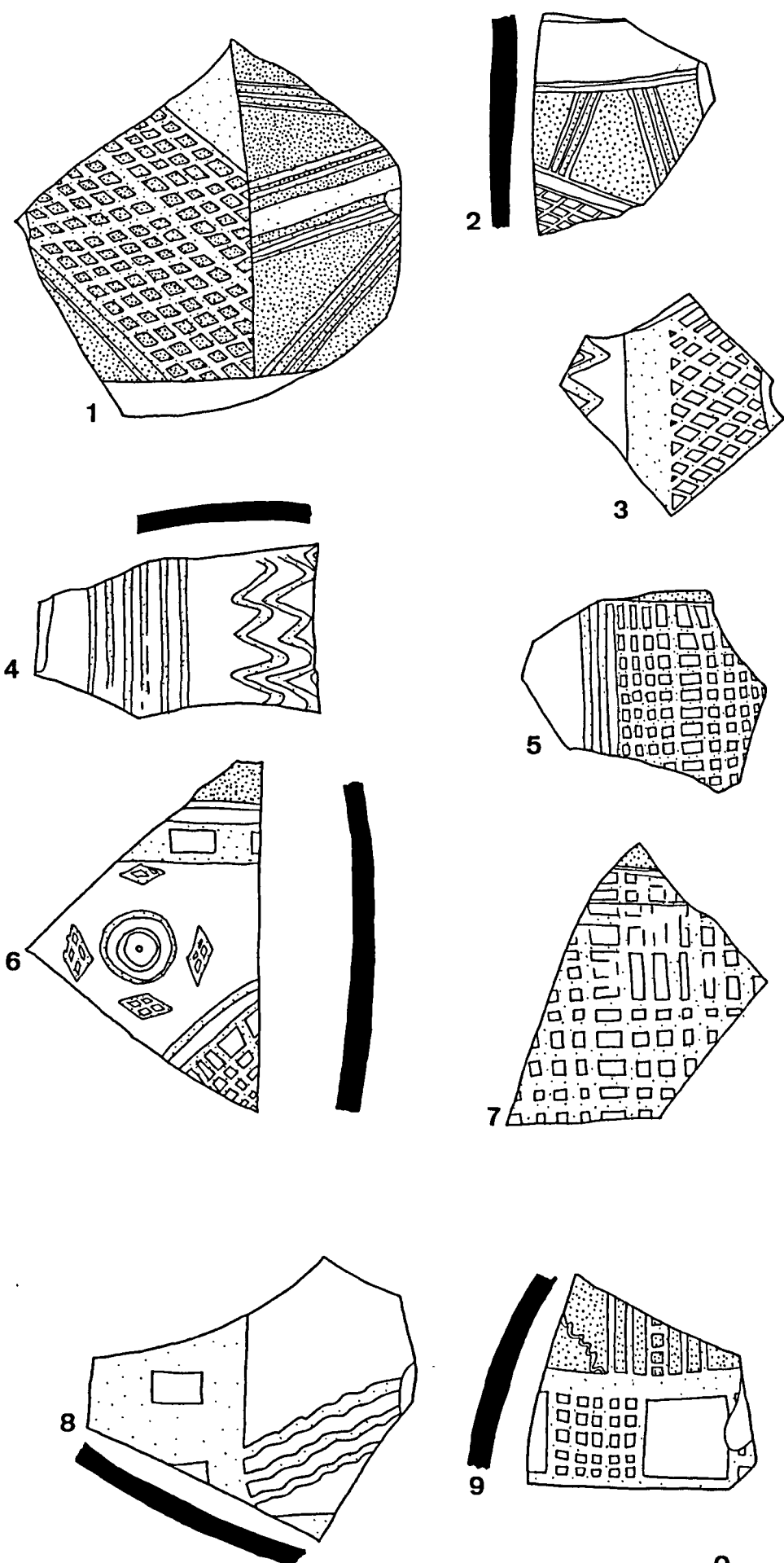


Figure 4.7

All sherds from Zemplín. 1 - 7) 28/55 8) 199 S I/ 03 (b)

9) 46/62





**Figure 4.8.1.**

Micro - photographs of slip decorated pottery fabrics.

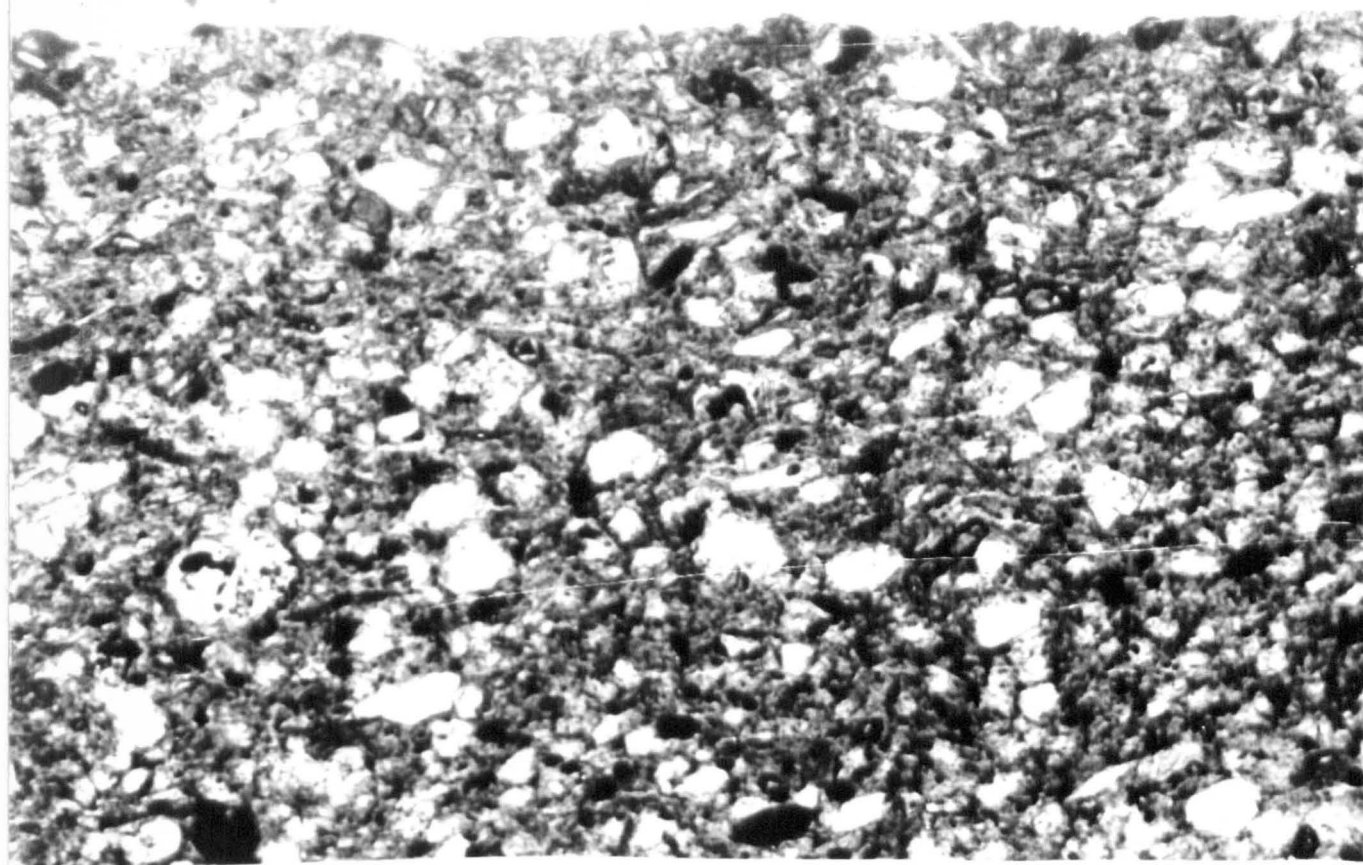
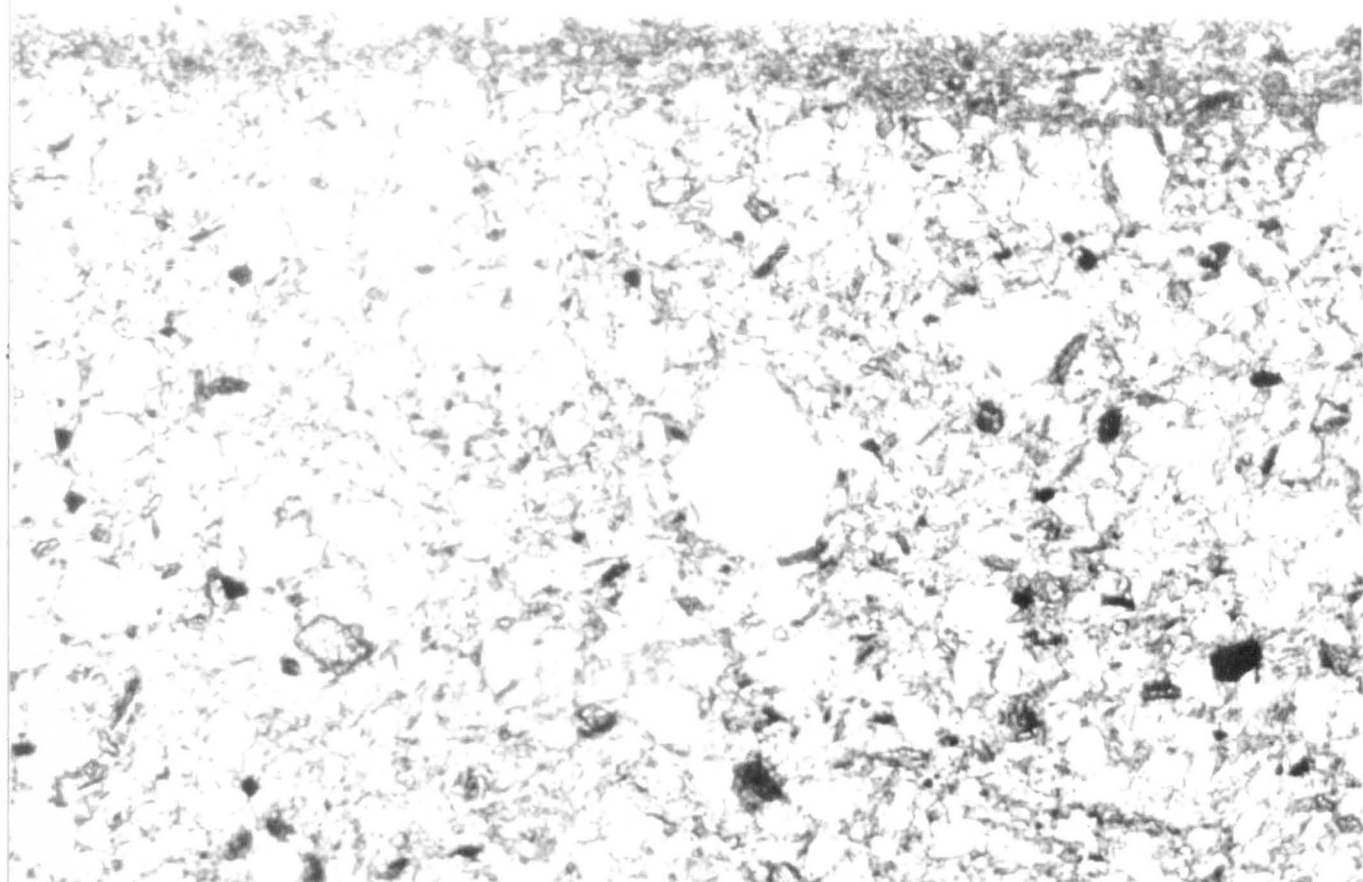
Polarized light.  
Magnification X90

Top: Stradonice 1.

The darker band at the top is the coating of slip,  
showing the presence of the inclusions which  
distinguish it from other types of coating.

Bottom: Liptovská Mara 90.

Photographs by Dr. M. Pawlikowski



**Figure 4.8.2.**

Micro - photographs of slip decorated pottery fabrics.

Polarized light.

Magnification X90

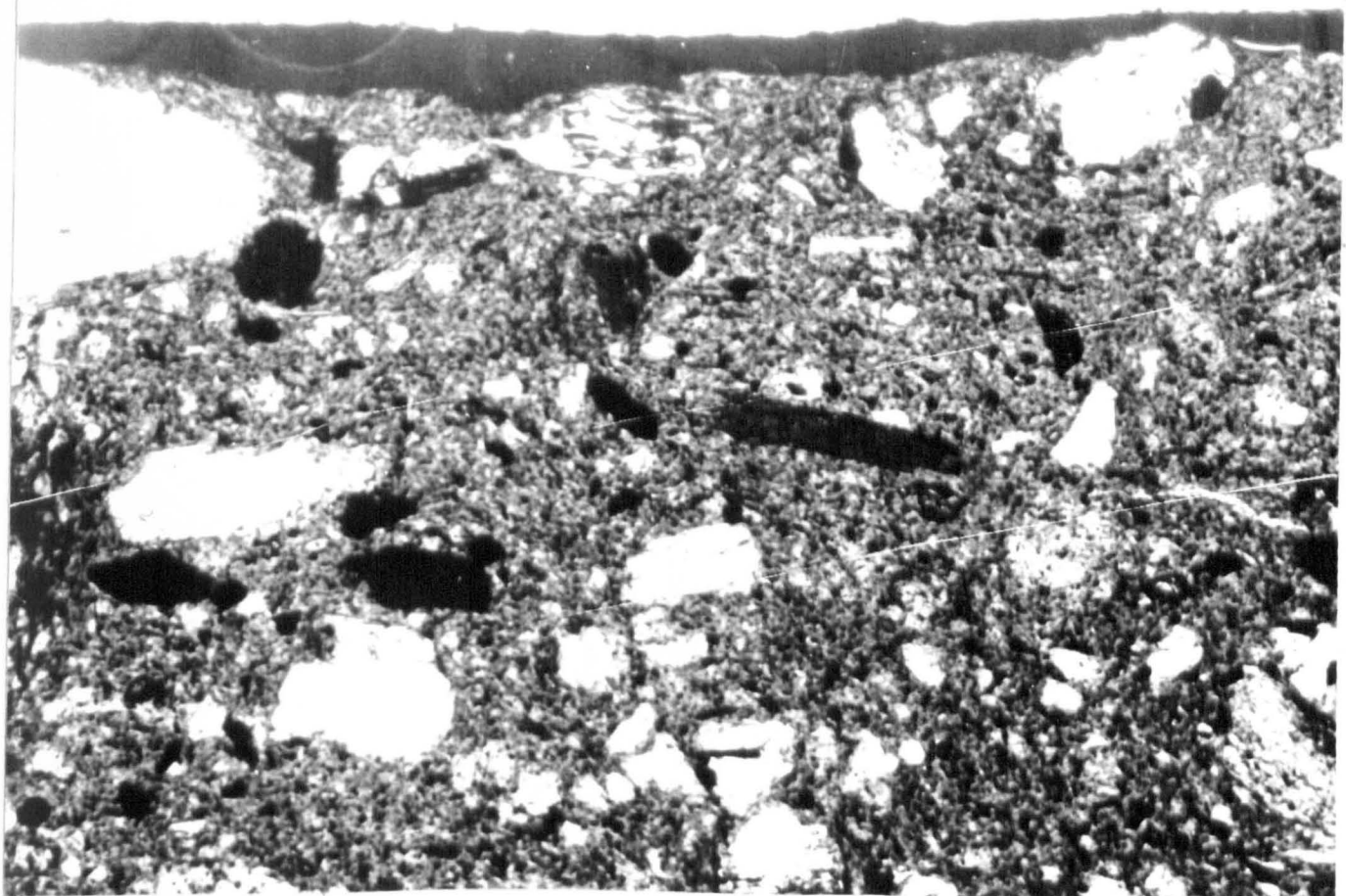
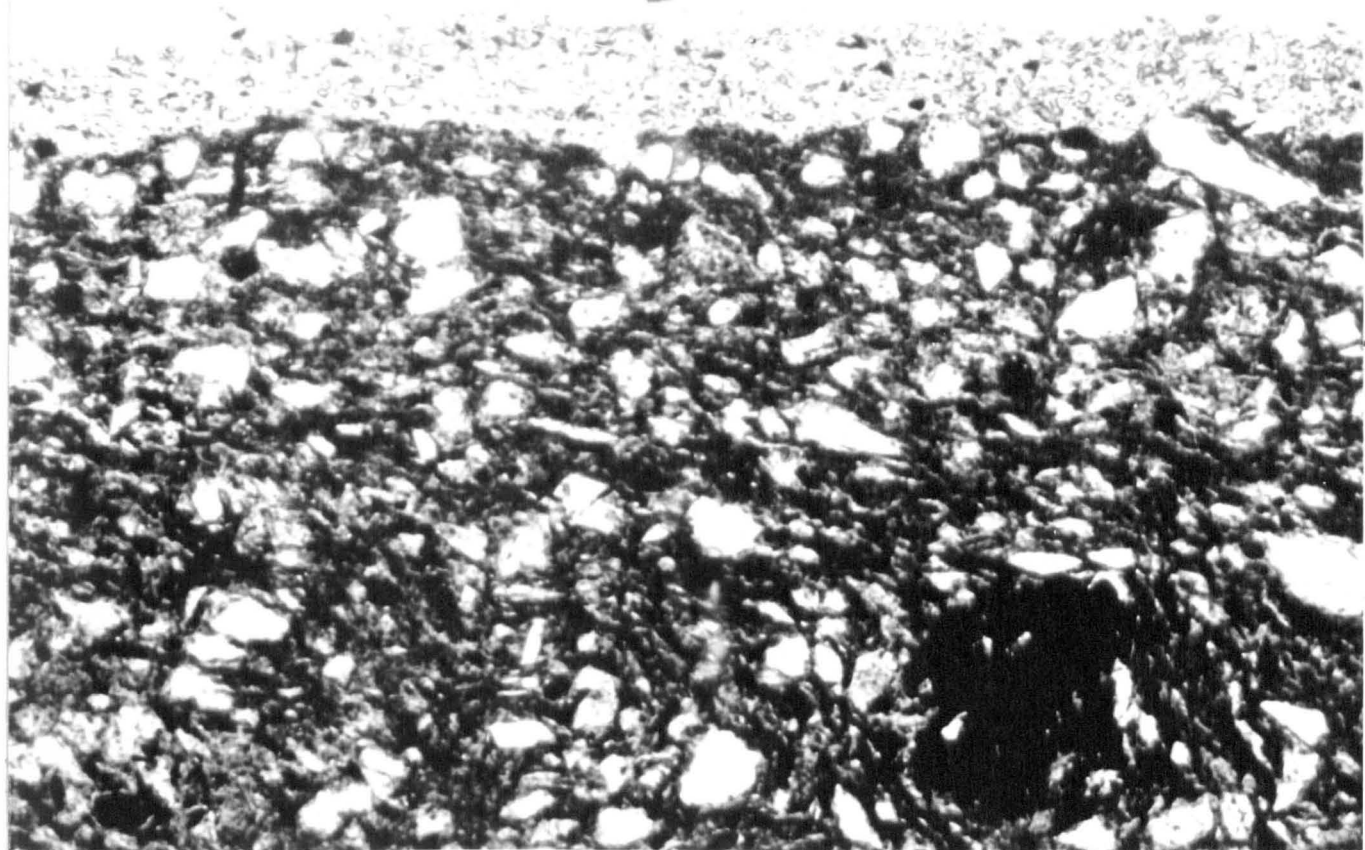
Top: Staré Hradisko 1.

The lighter band at the top is the coating of slip, showing the presence of the inclusions which distinguish it from other types of coating.

Bottom: Nitra - Mikov Dvor.

The opaque, dark band at the top is the coating of slip, but in this case no inclusions are visible.

Photographs by Dr. M. Pawlikowski



**Figure 4.8.3.**

Micro - photographs of slip decorated pottery fabrics.

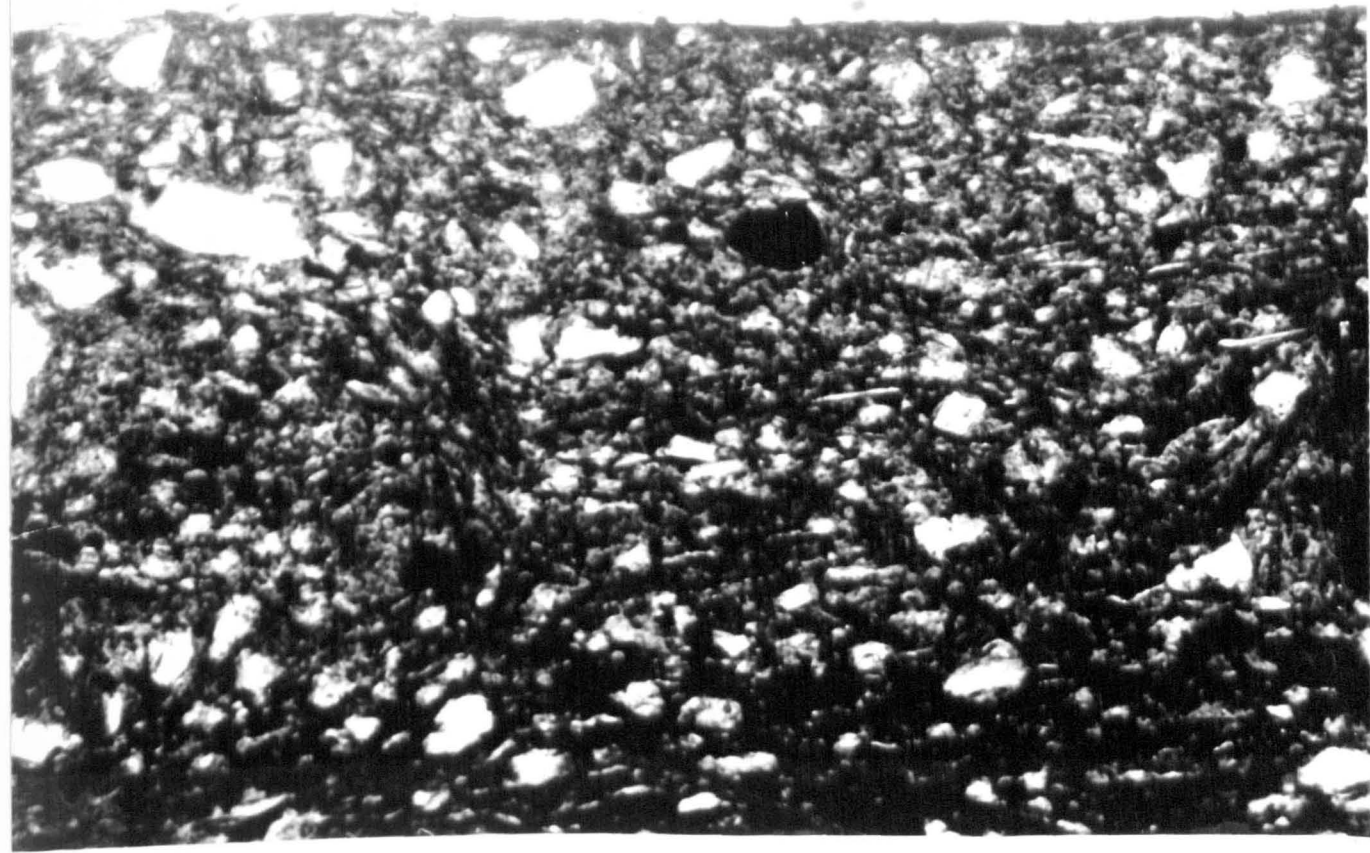
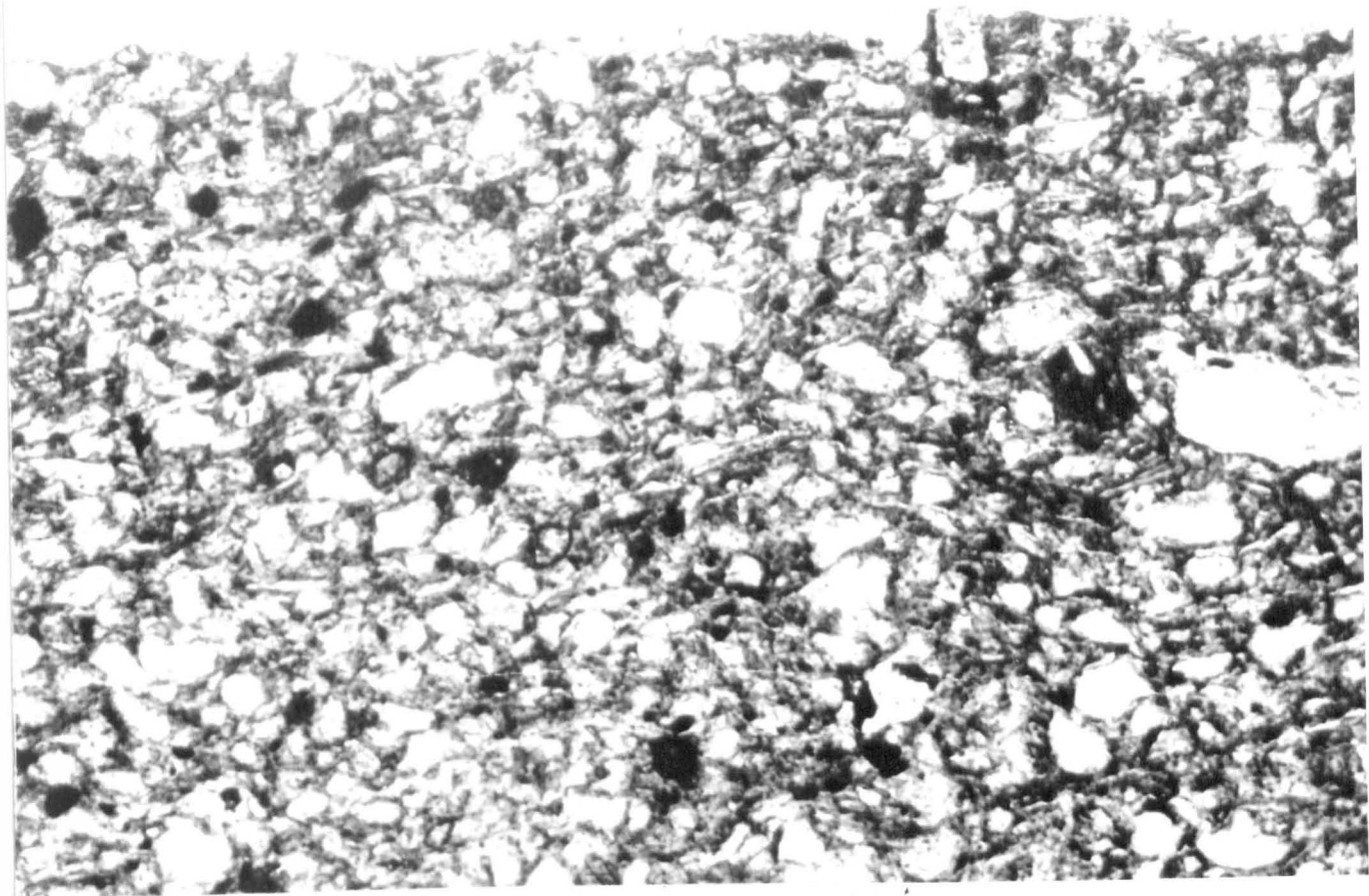
Polarized light.

Magnification X90

Top: Staré Hradisko 2

Bottom: Zemplín 1

Photographs by Dr. M. Pawlikowski



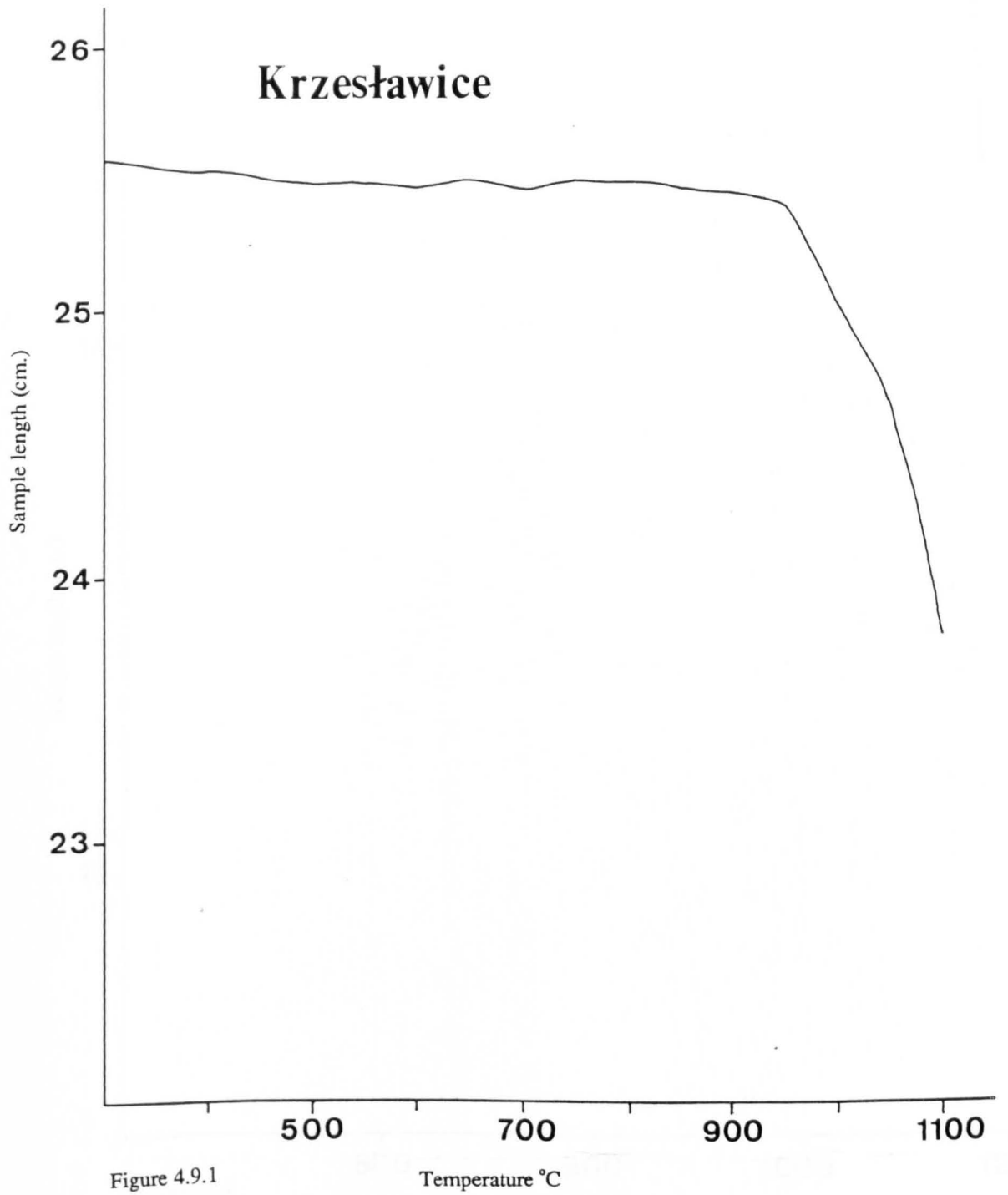


Figure 4.9.1

Temperature °C

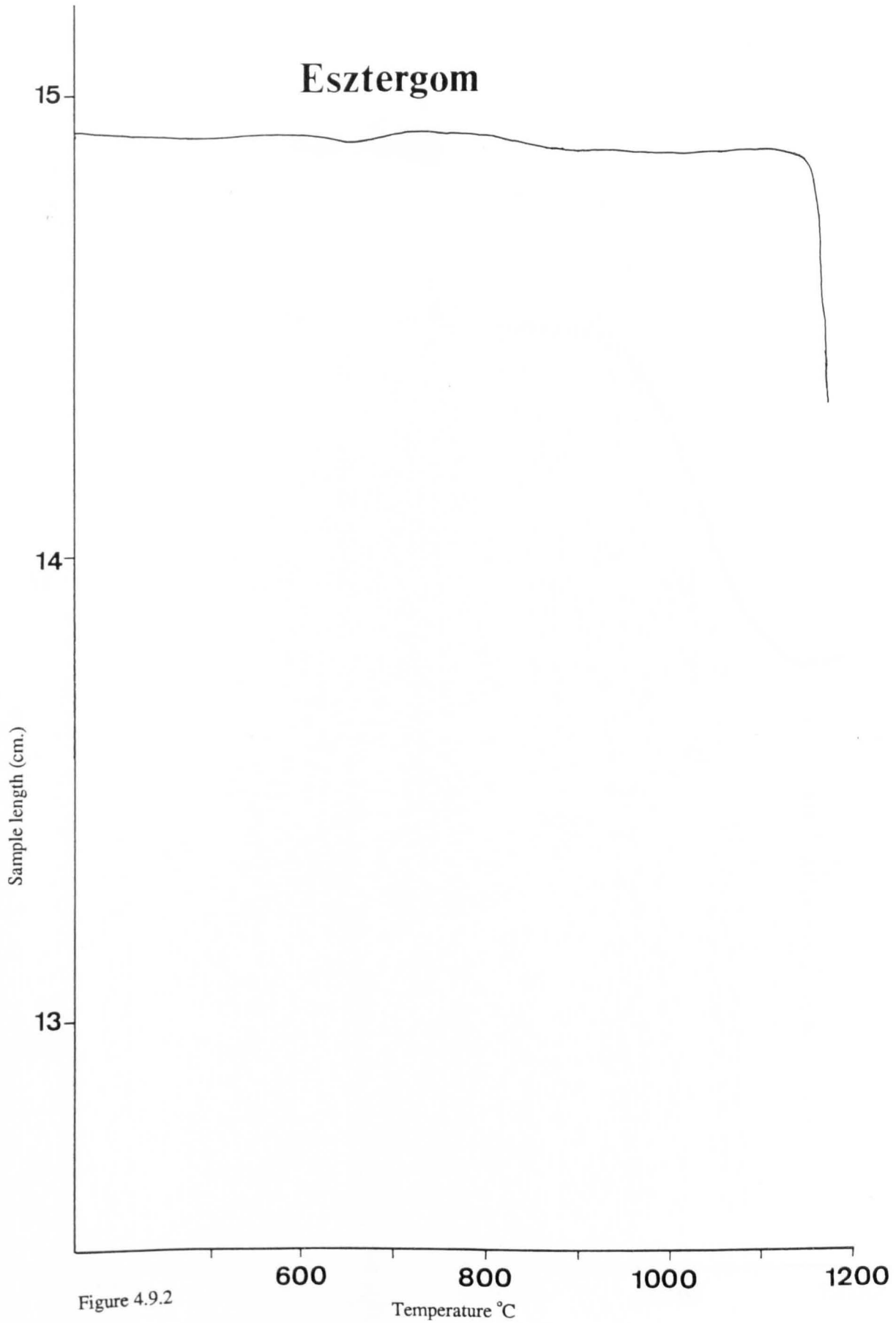


Figure 4.9.2



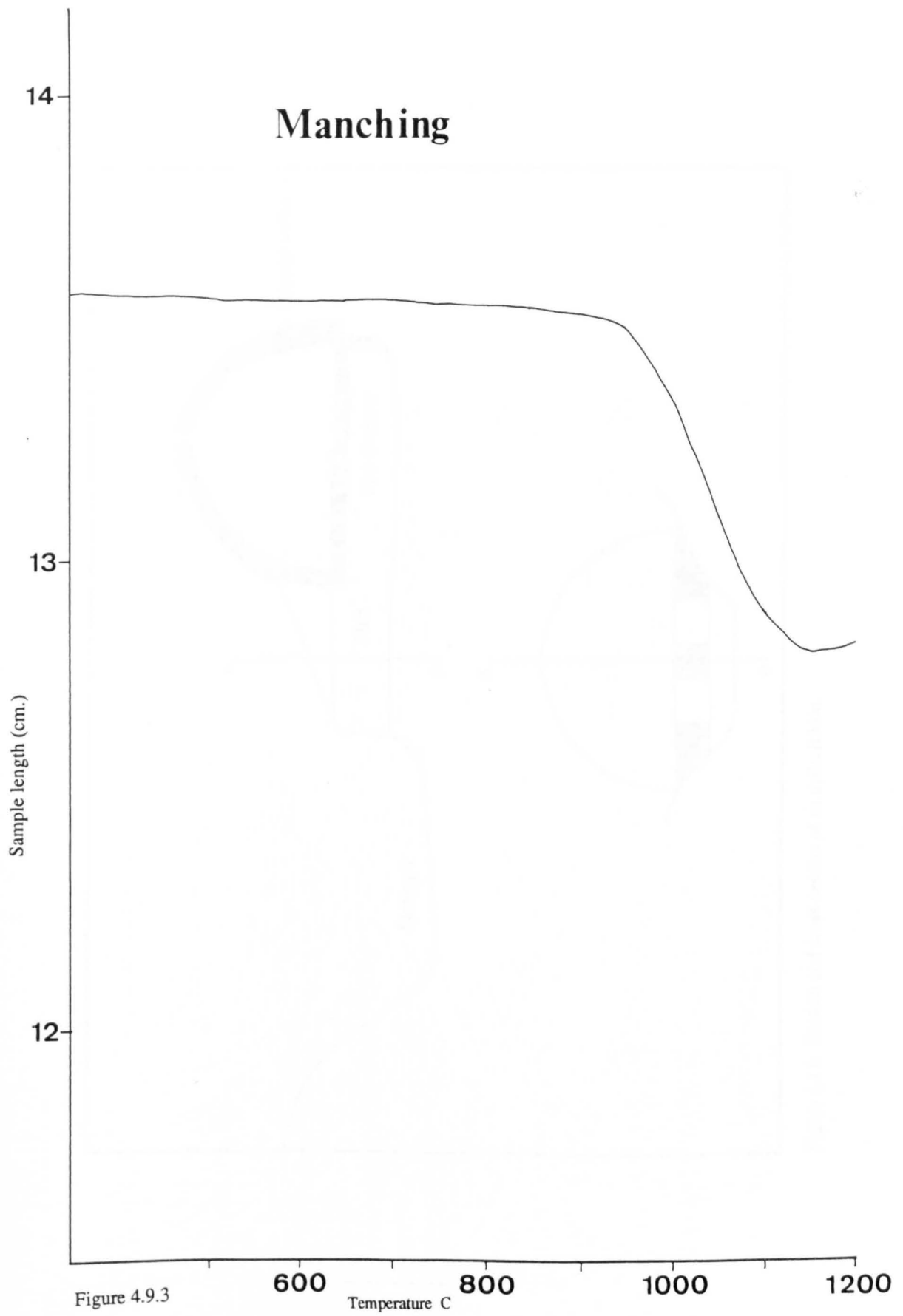


Figure 4.9.3

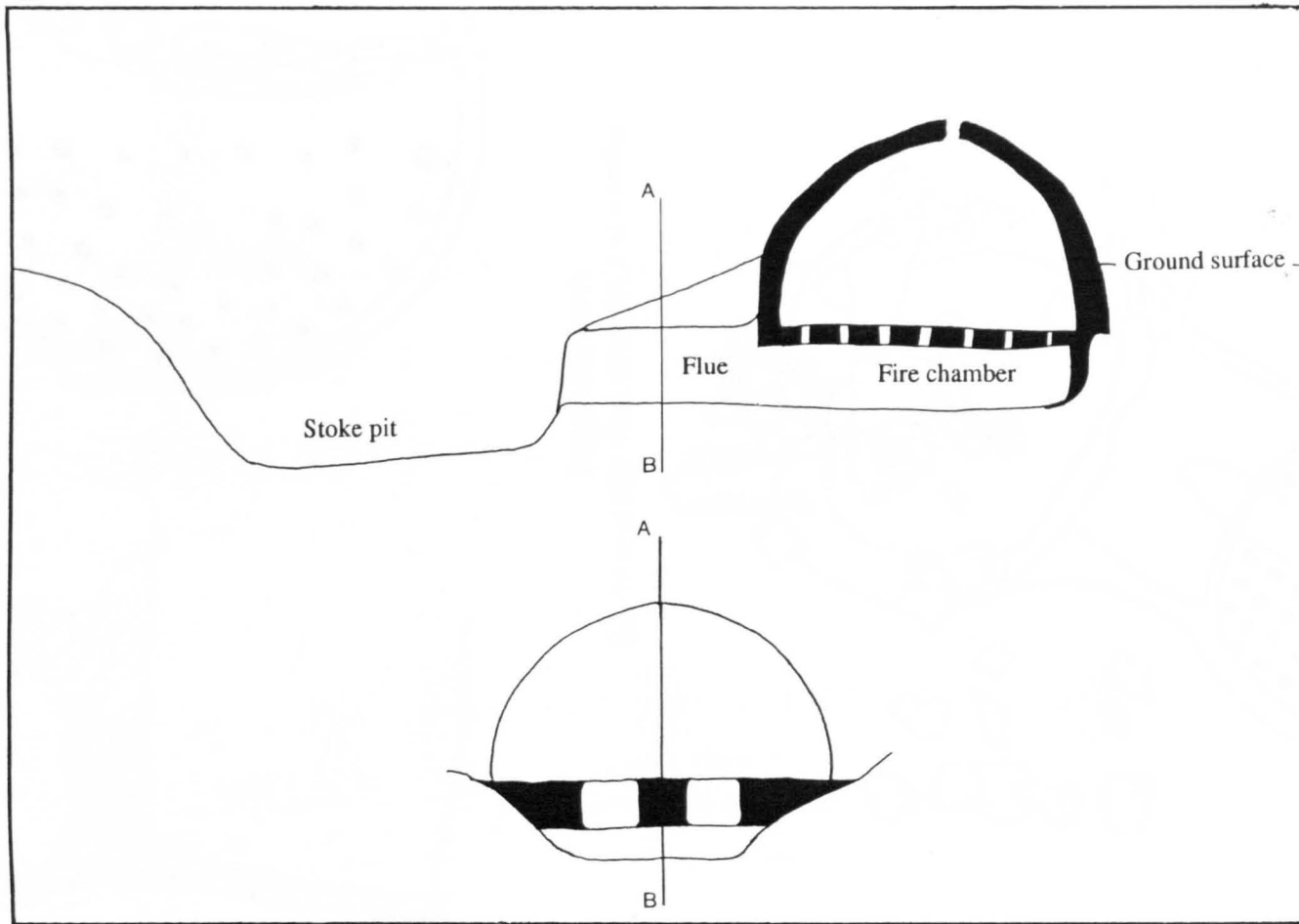


Figure 4.11. Section and cross-section of an updraft kiln.

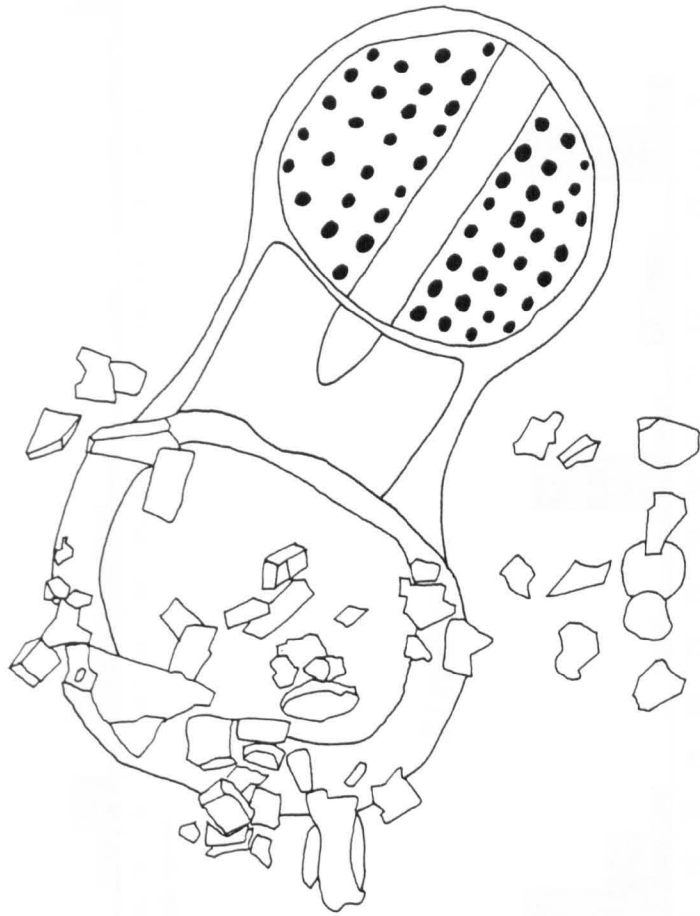


Figure 4.10.2 Liptovská Mara: Kiln from site VII  
(After Pieta 1982a)

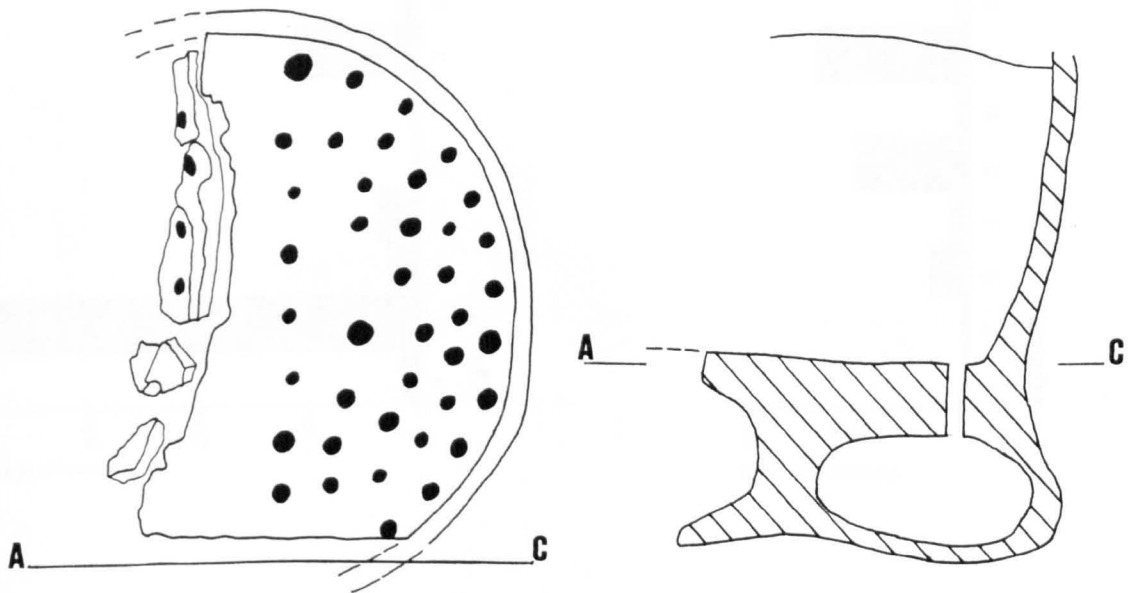


Figure 4.10.1 Esztergom: kiln from Löwy Sandor utca 1  
(After Keleman 1987)

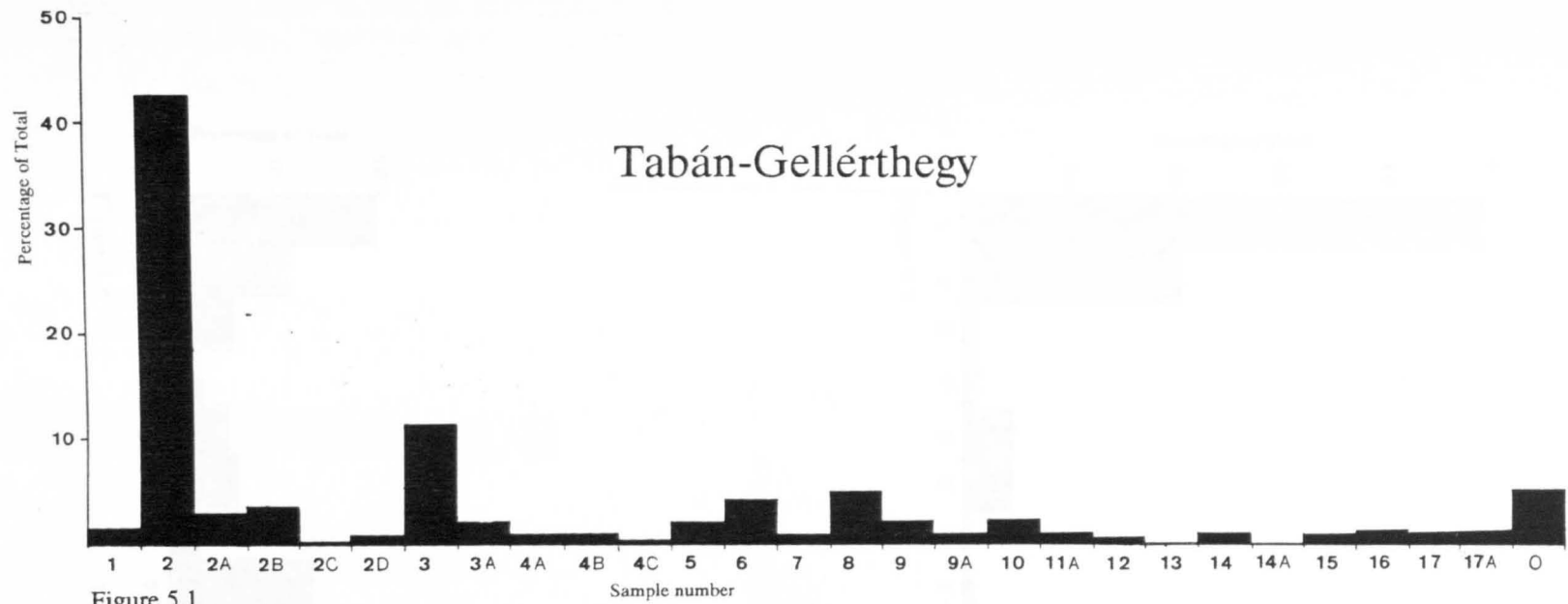


Figure 5.1

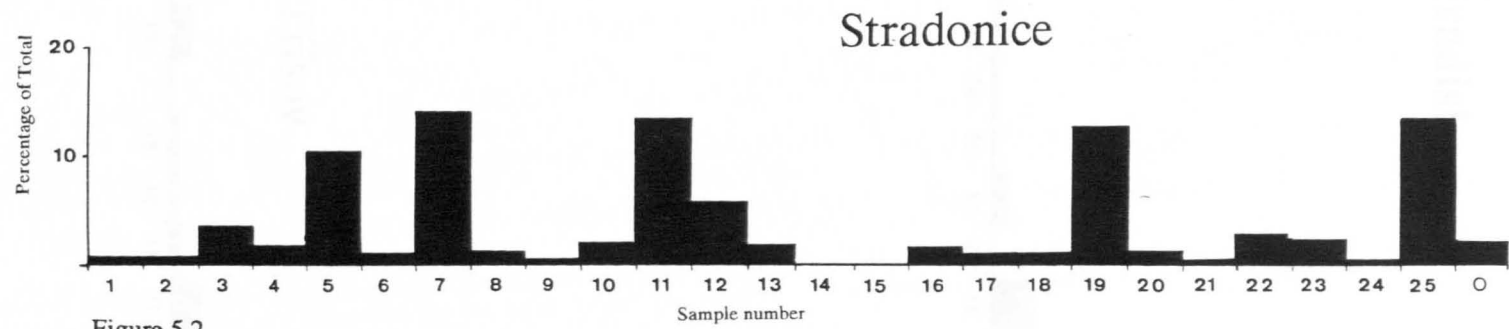


Figure 5.2

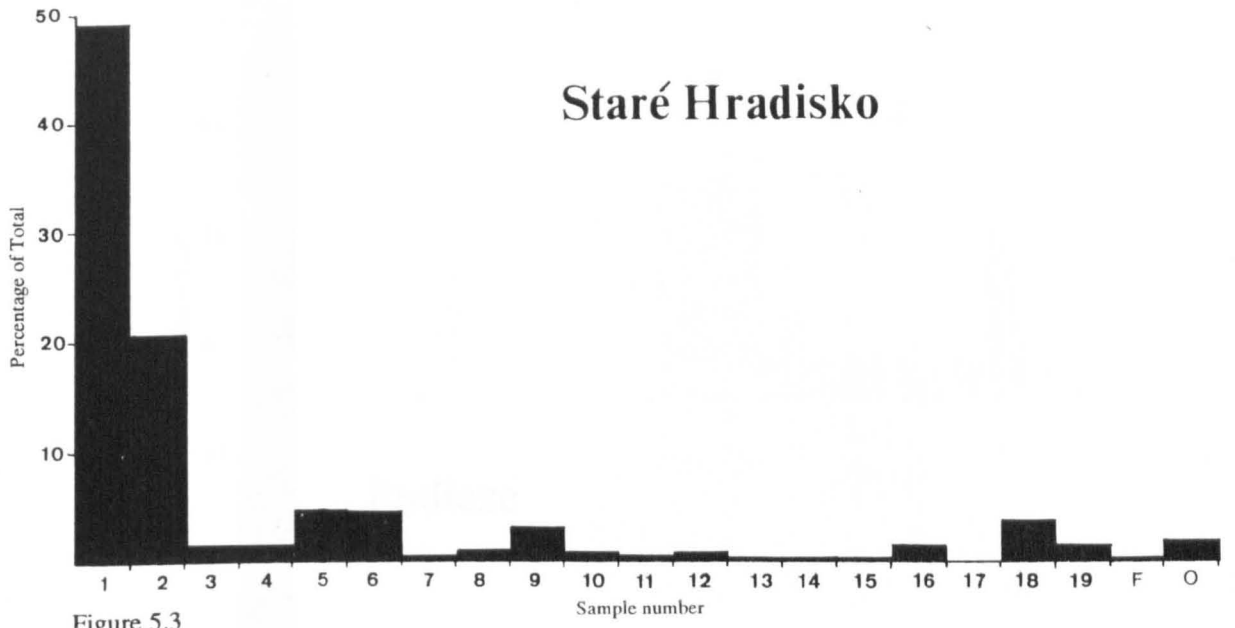


Figure 5.3

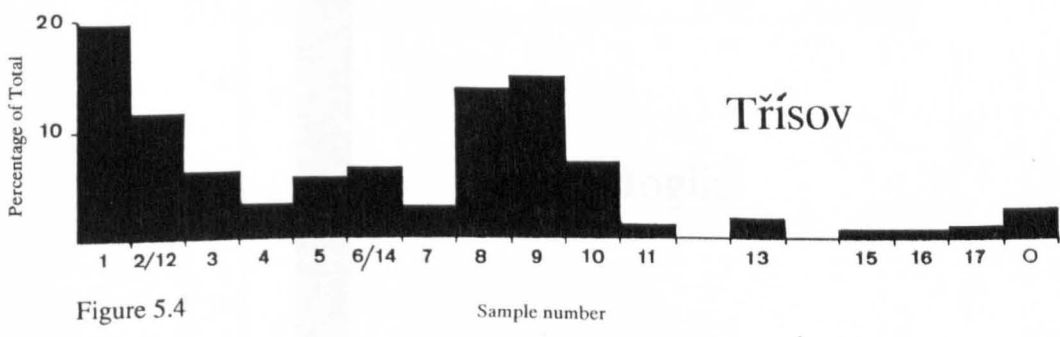


Figure 5.4

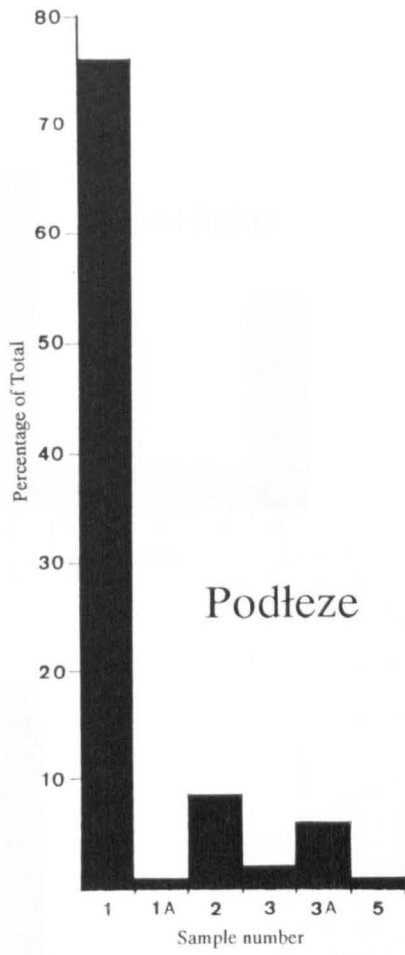


Figure 5.5

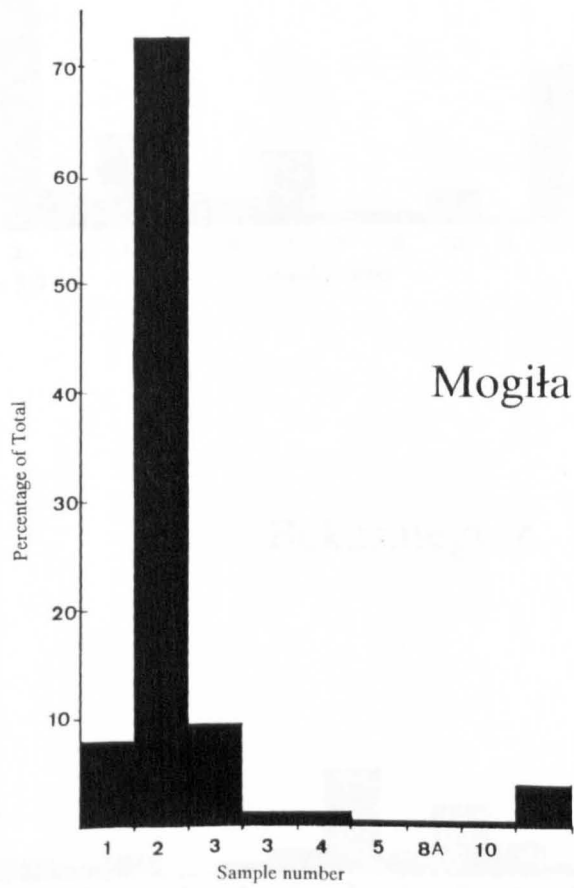


Figure 5.6

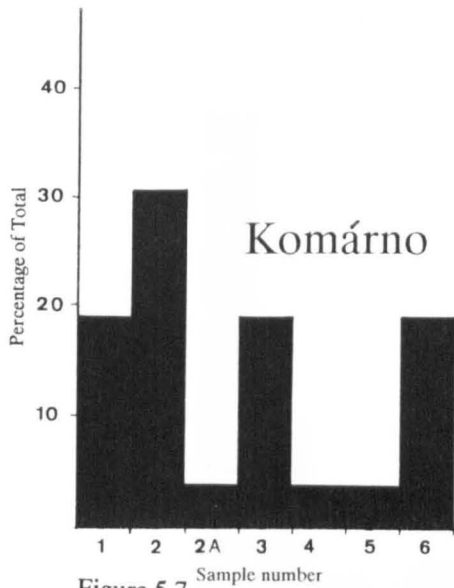


Figure 5.7

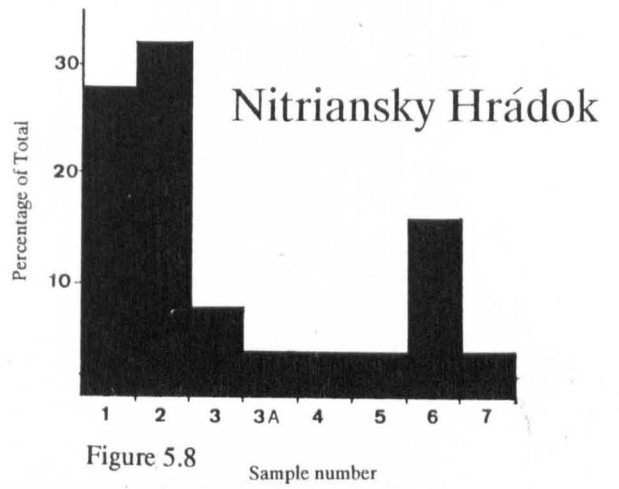


Figure 5.8

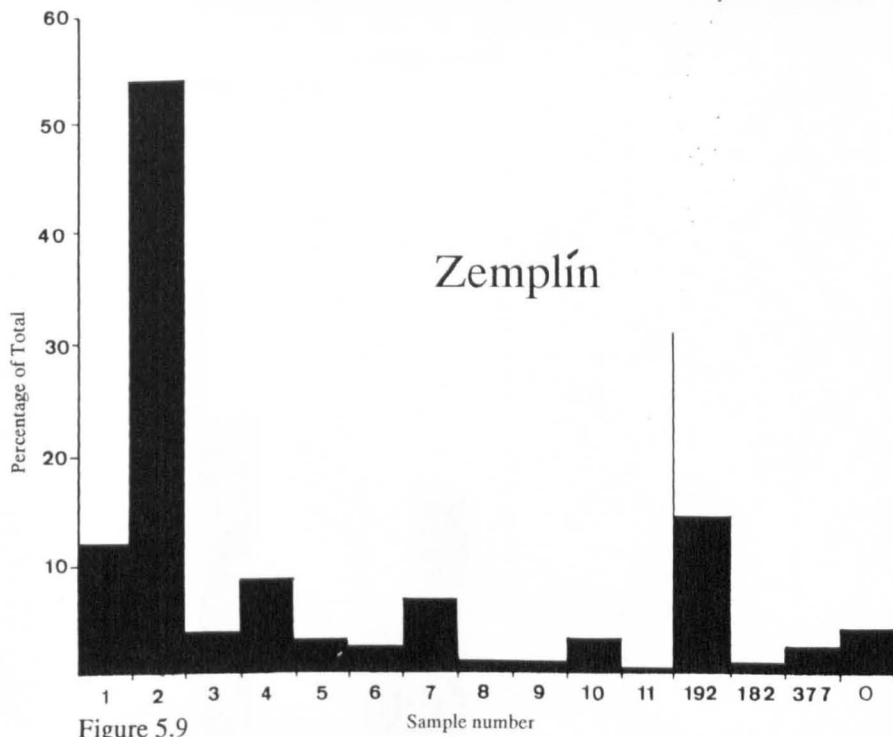


Figure 5.9

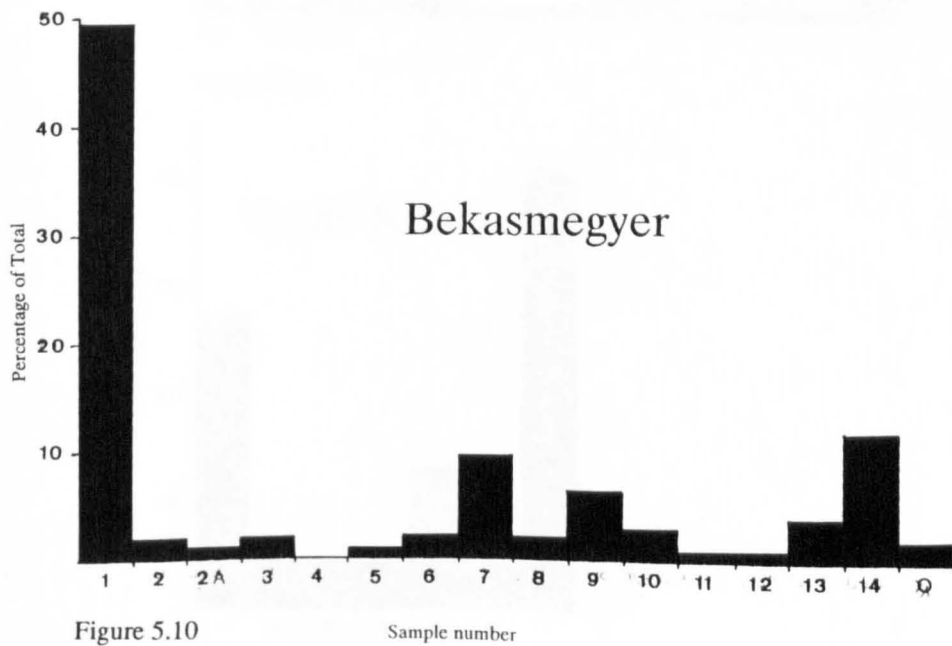


Figure 5.10

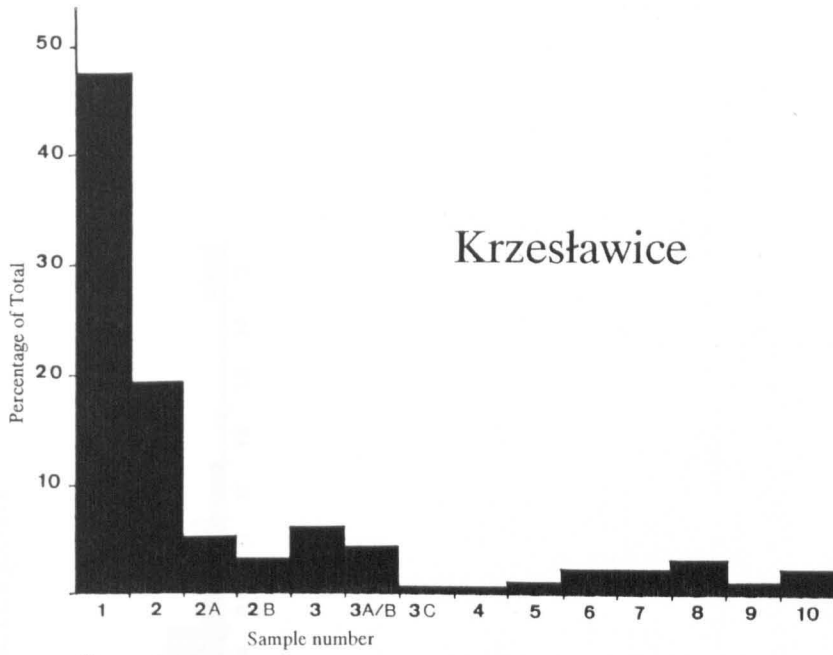


Figure 5.11

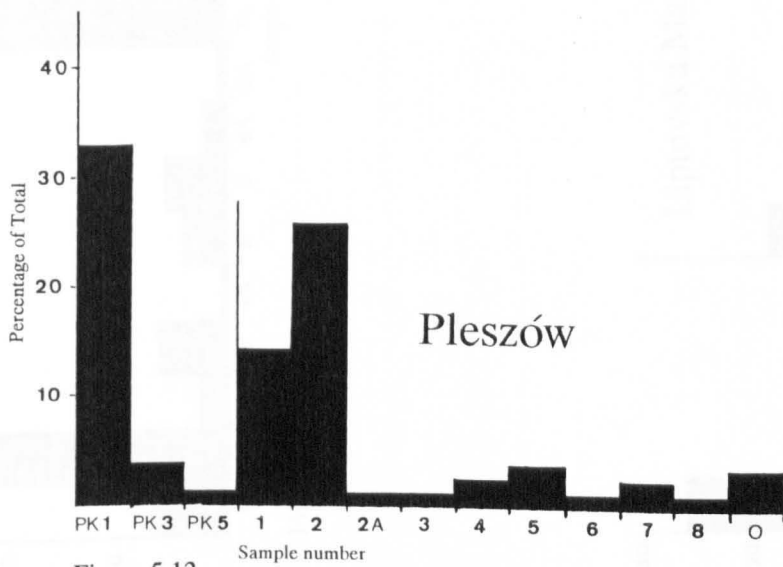


Figure 5.12

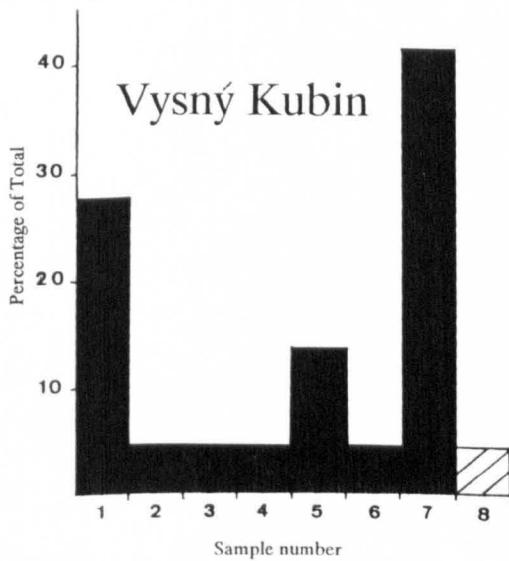


Figure 5.13



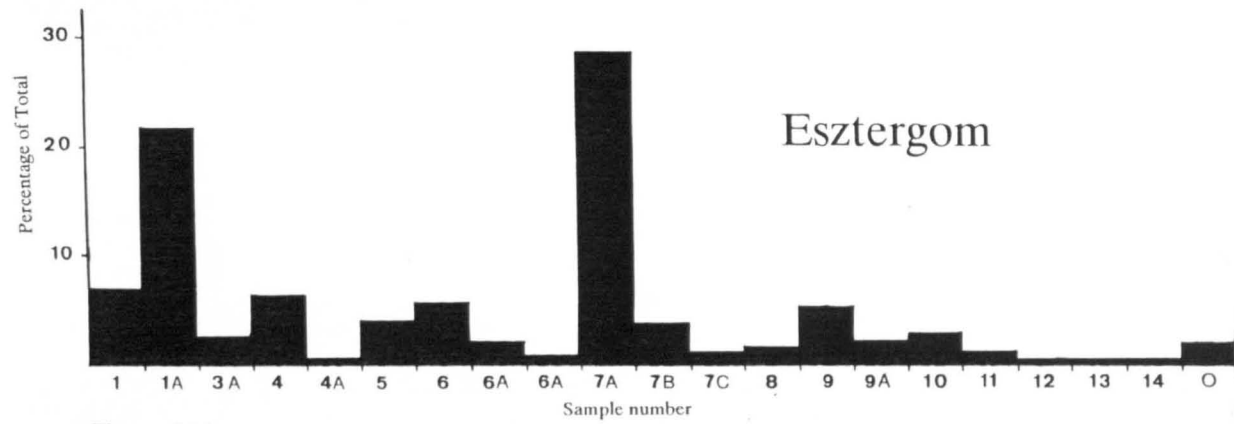


Figure 5.14

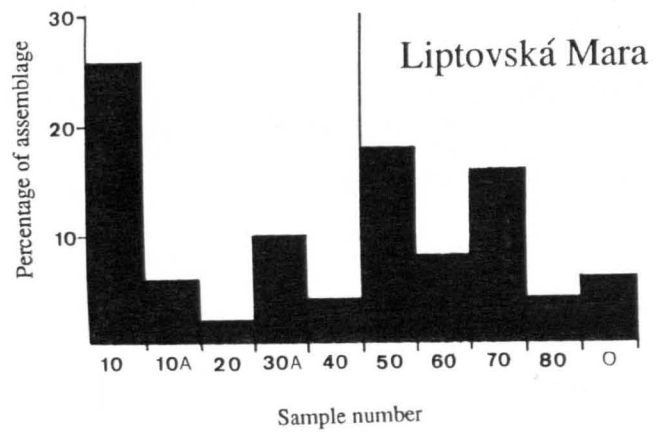


Figure 5.15

## Figure 5.16

### Slip decorated pottery in Bohemia.

Sources: various

The names of the sites in Northwestern Bohemia (delineated by the rectangle) are given in figure 5.16.1. Further details of all sites are given in Appendix 1.

- |                       |                   |
|-----------------------|-------------------|
| 1 - Stradonice        | ○ Oppidum         |
| 2 - Závist            | ○ ?Oppidum        |
| 3 - Nevězice          | • Undefended site |
| 4 - Hrazany           | † Castellum       |
| 5 - České Lhotice     | - ?Castellum      |
| 6 - Třísov            |                   |
| 7 - Úhošť             |                   |
| 8 - Sedlo             |                   |
| 9 - Zvíkov            |                   |
| 10 - Čertova Ruka     |                   |
| 11 - Kolo             |                   |
| 12 - Polepy           |                   |
| 13 - Nova Ves         |                   |
| 14 - Cernhýnky        |                   |
| 15 - Radovesnice      |                   |
| 16 - Kašperske Hory   |                   |
| 17 - Lažiste          |                   |
| 18 - Kbelnice         |                   |
| 19 - Strakonice       |                   |
| 20 - Skaly            |                   |
| 21 - Kuřimany         |                   |
| 22 - Chlum Bededovice |                   |
| 23 - Mělník           |                   |
| 24 - Třebohostice     |                   |

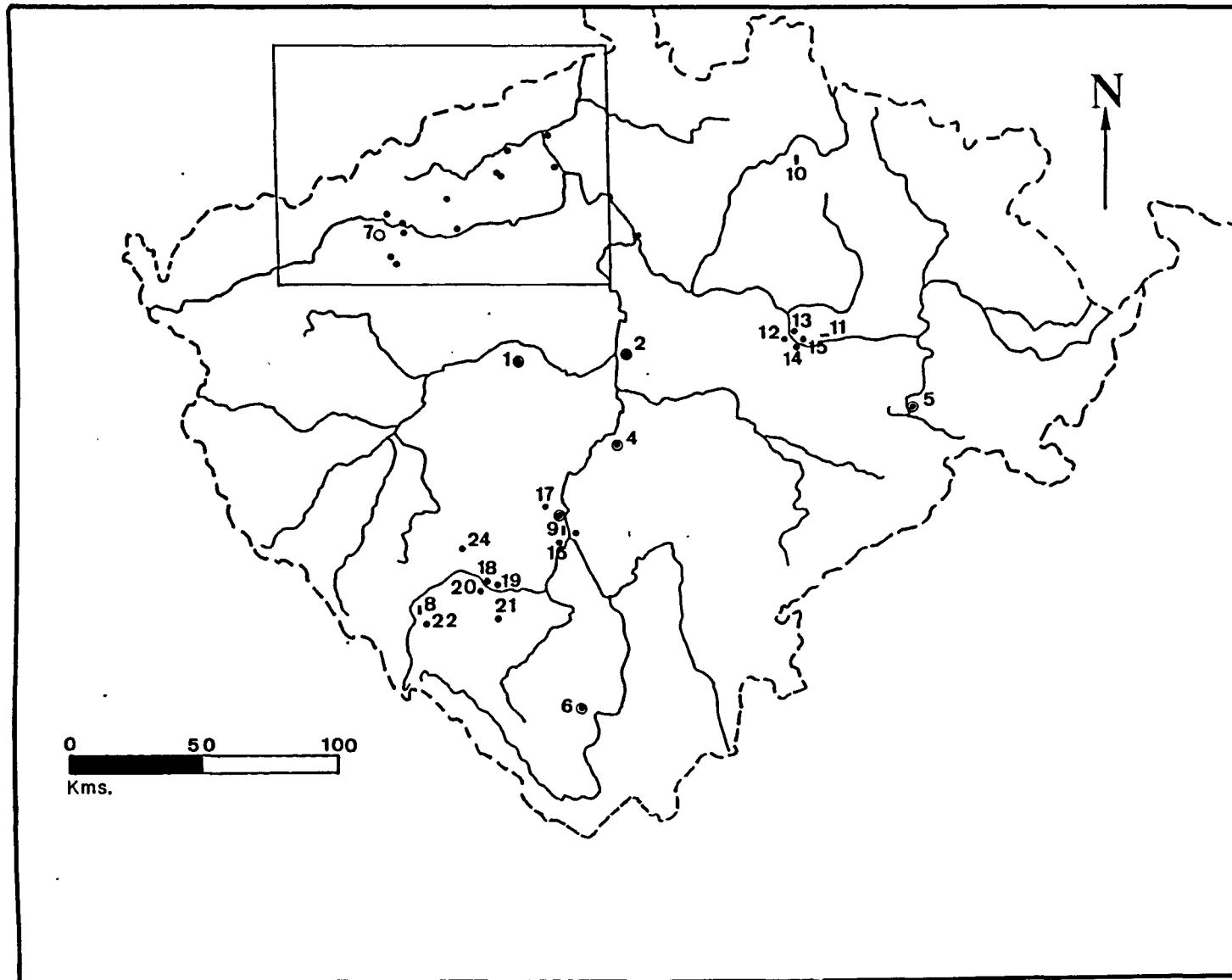


Figure 5.16.

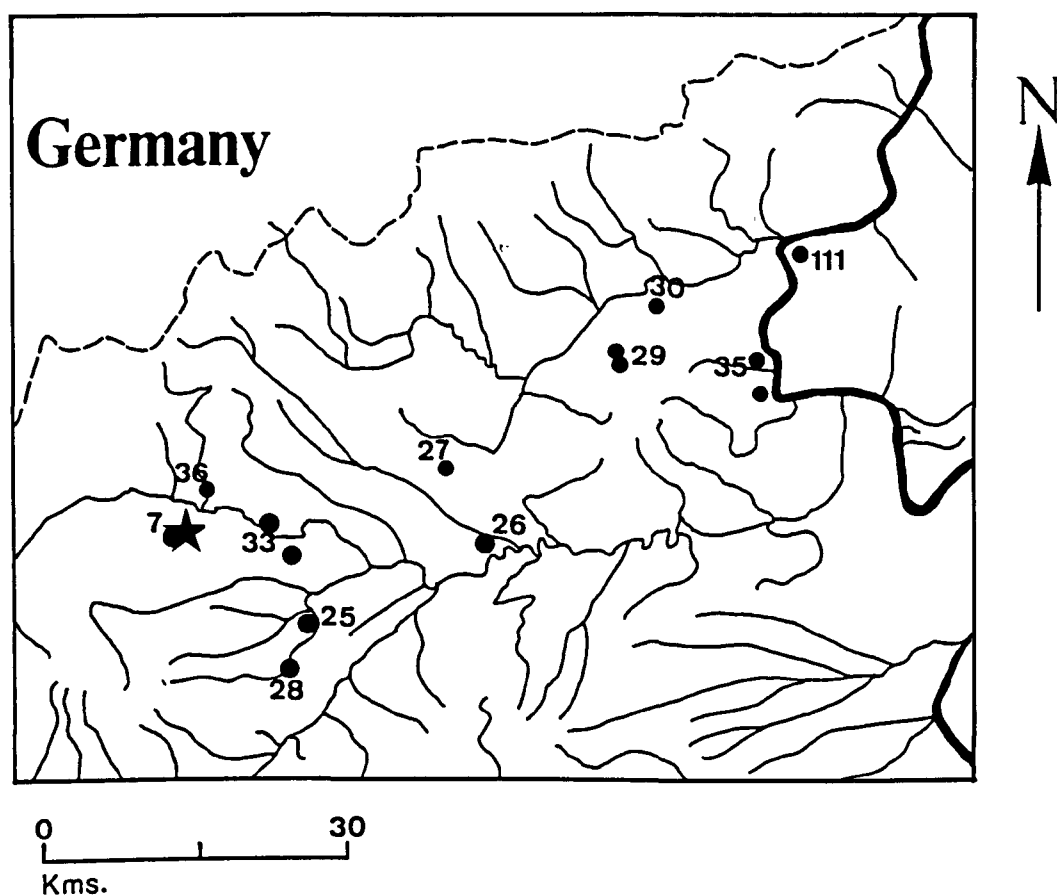


Figure 5.16.1. Slip decorated pottery in northwestern Bohemia.  
(After Holodnak 1987).

- 7 - Úhošť
- 25 - Oploty
- 26 - Postoloprty
- 27 - Triskolupy
- 28 - Podbořany
- 29 - Radovesice
- 30 - Bžany
- 31 - Strekov
- 33 - Lomazice
- 35 - Lhotka - Lovosice
- 36 - Kadaň-Jezerka
- 111 - Ústí-nad-Labem

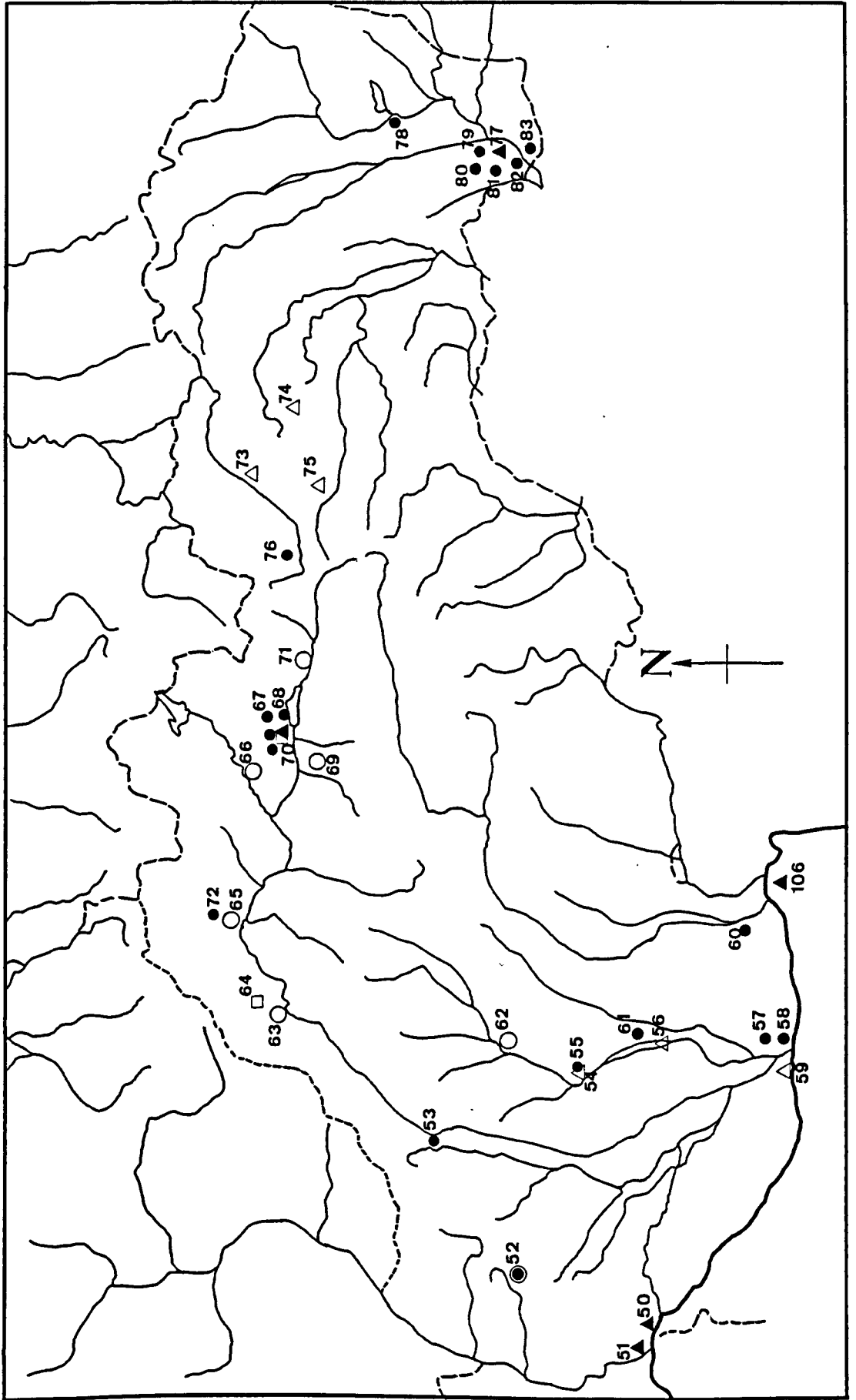
Figure 5.17

Slip decorated pottery in Slovakia.

Source: Pieta 1982a, with additions.

Details of all sites are given in Appendix 1

50 - Bratislava	▲ Central site
51 - Devín	
52 - Plavecké Podhradie	△ ?Central site
53 - Pobeďim	
54 - Nitra - Hrad	⊙ Oppidum
55 - Nitra - Mikov Dvor	
56 - Nitriansky Hradok	○ Defended site
57 - Chotín	
58 - Iža	□ Ritual site
59 - Komárno	
60 - Kamenin	• Undefended settlement
61 - Ulány nad Zitavou	
62 - Krnca	
63 - Púchov	
64 - Prosne	
65 - Divinka	
66 - Vysný Kubin	
67 - Liptovská Sielnica	
68 - Kvačany	
69 - Liptovská Štiavnica	
70 - Liptovská Mara	
71 - Podturen	
72 - Lopusne Pazite	
73 - Kežmarok	
74 - Spišske Podhradie	
75 - Machalovce	
76 - Batizovce	
77 - Zemplín	
78 - Michalovce	
79 - Hran	
80 - Brehov	
81 - Streda nad Bodrogom	
82 - Cejkov	
83 - Ladmovce	



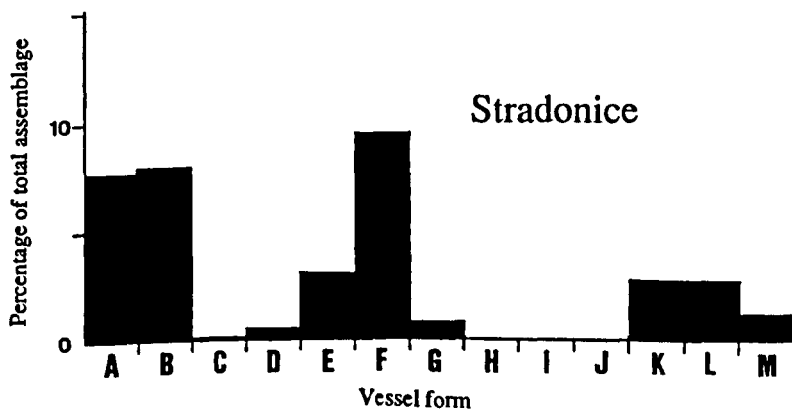
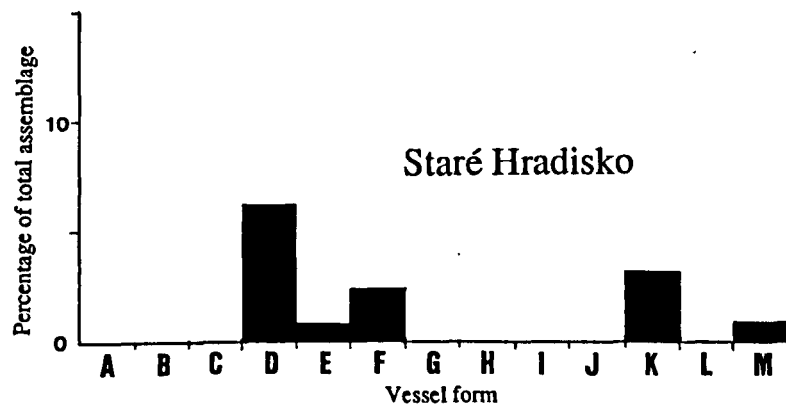
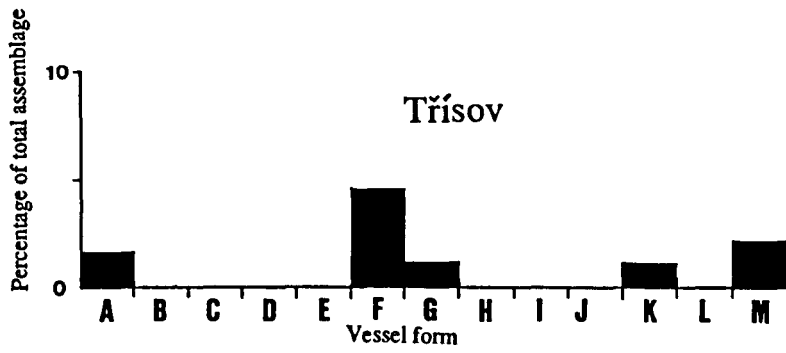


Figure 5.18.1

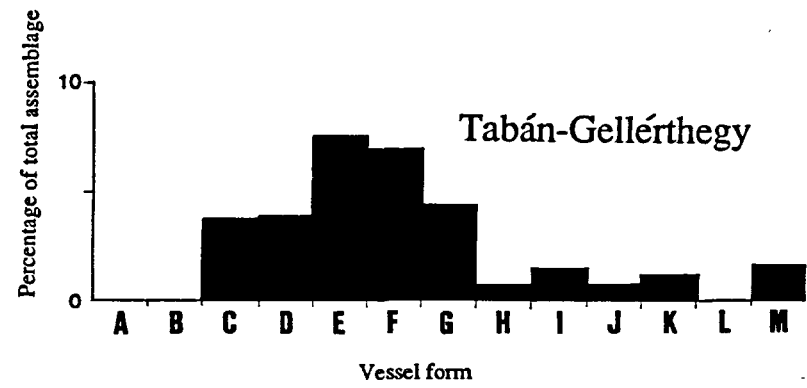
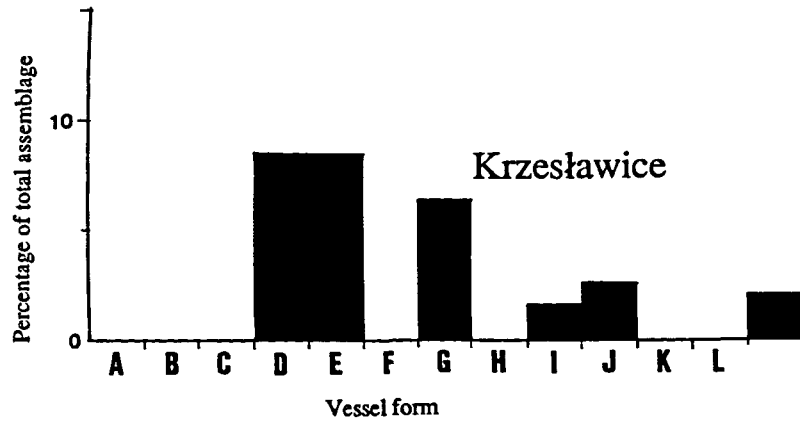
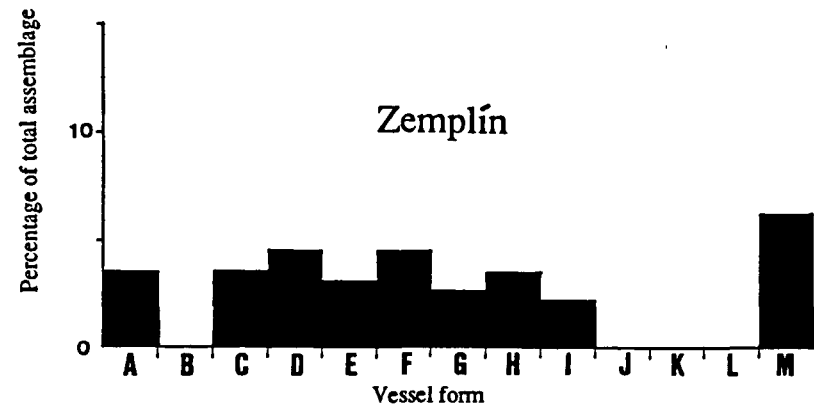
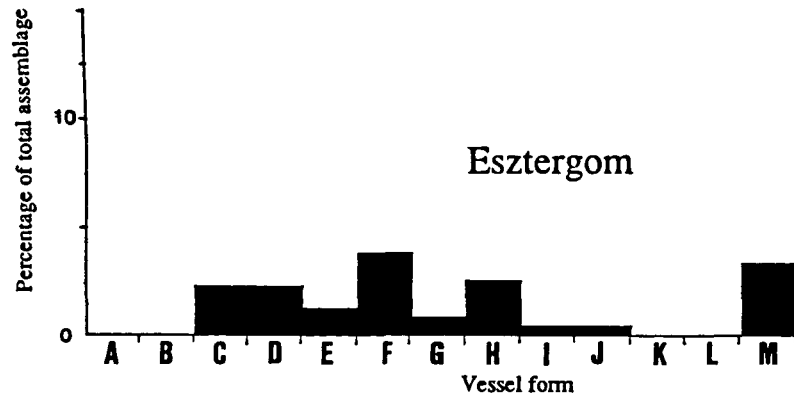


Figure 5.18.2



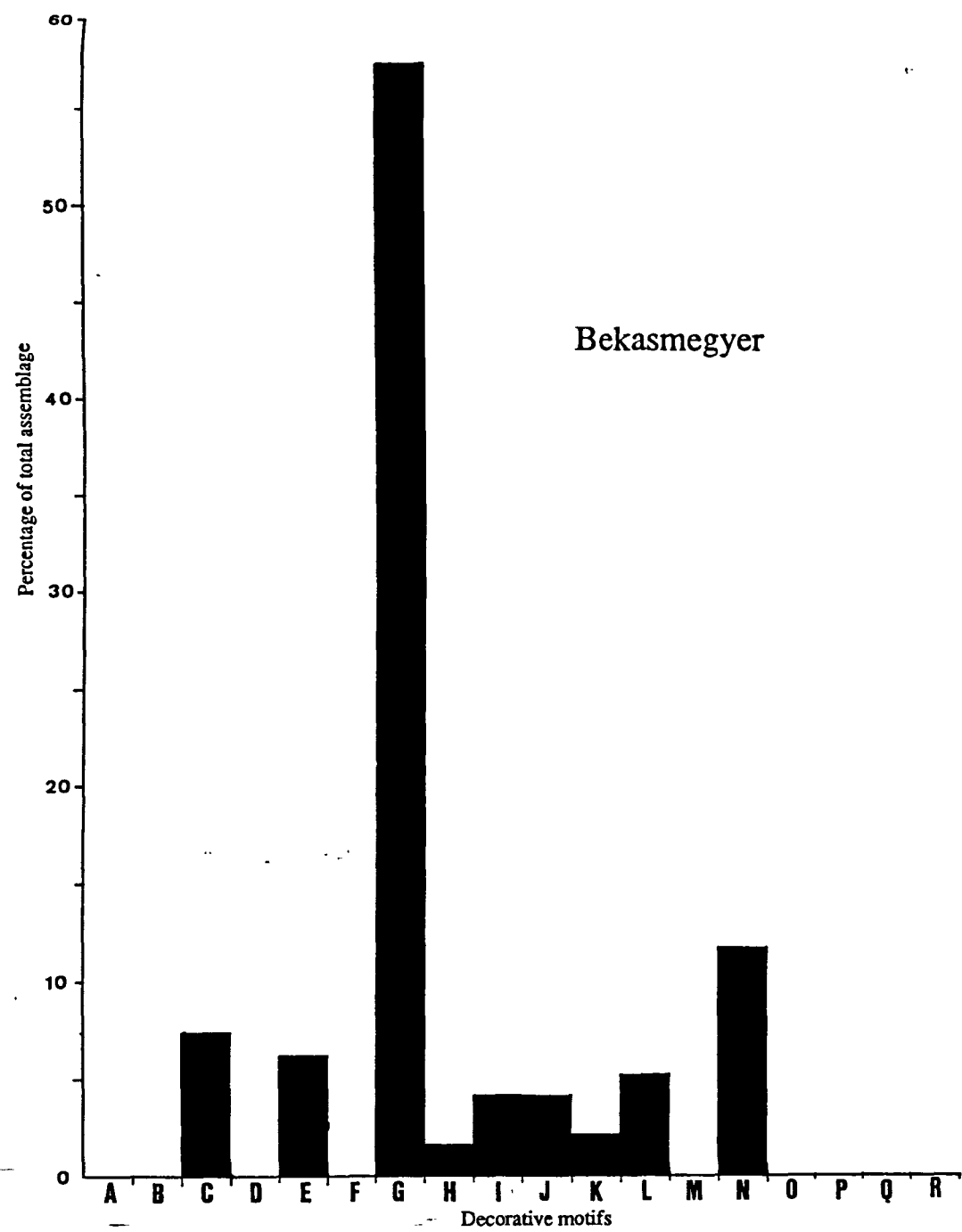
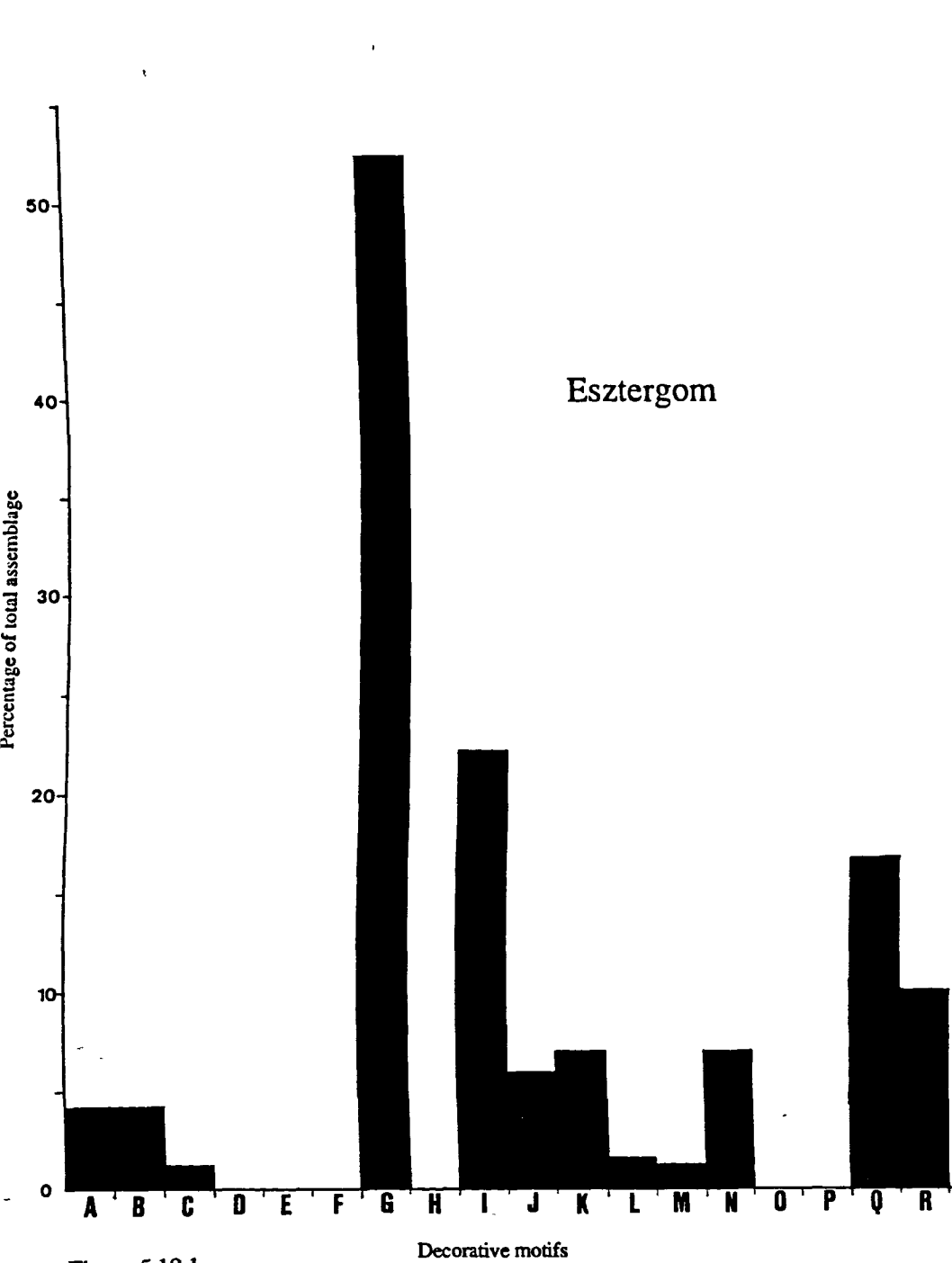


Figure 5.19.1

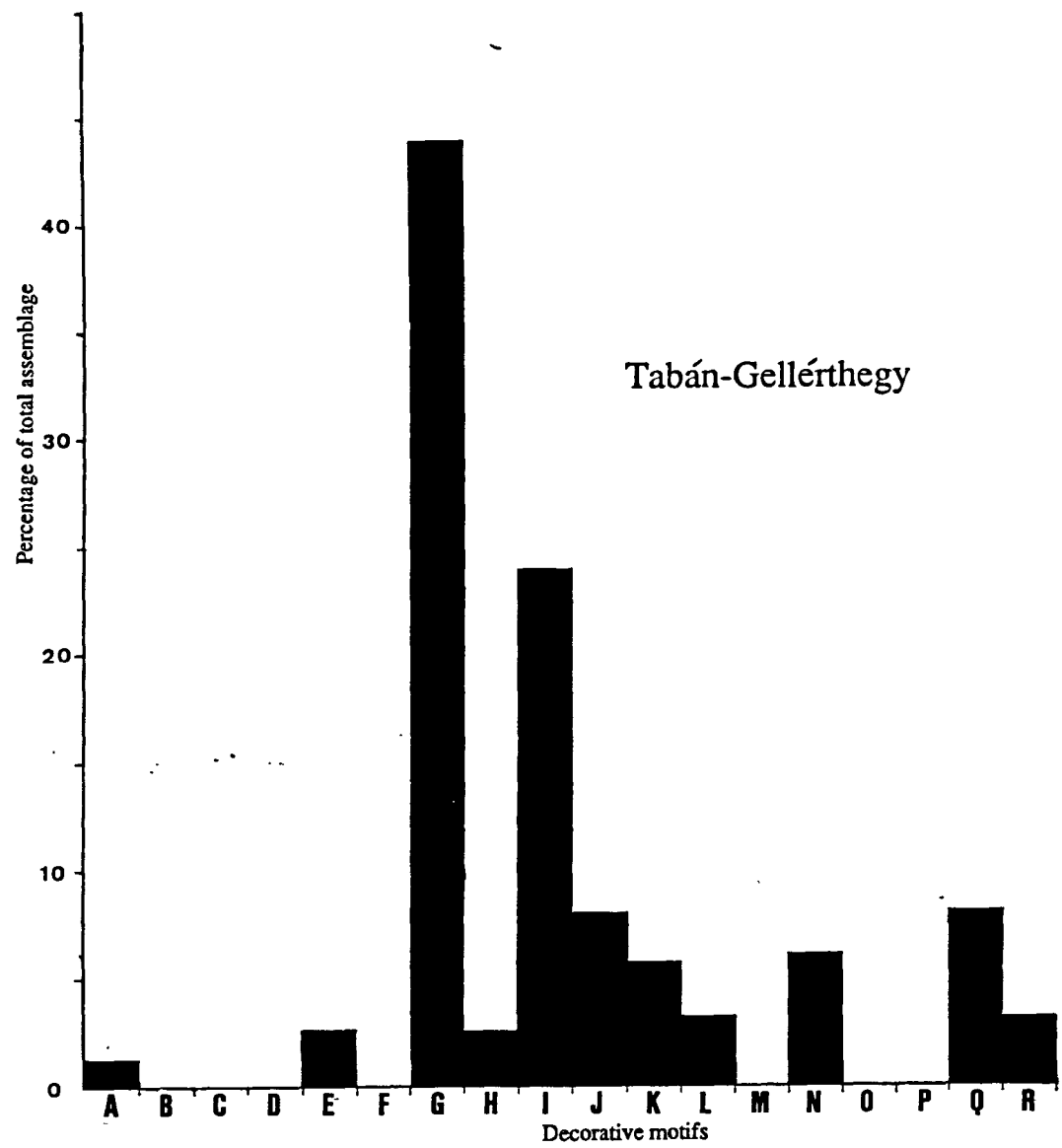
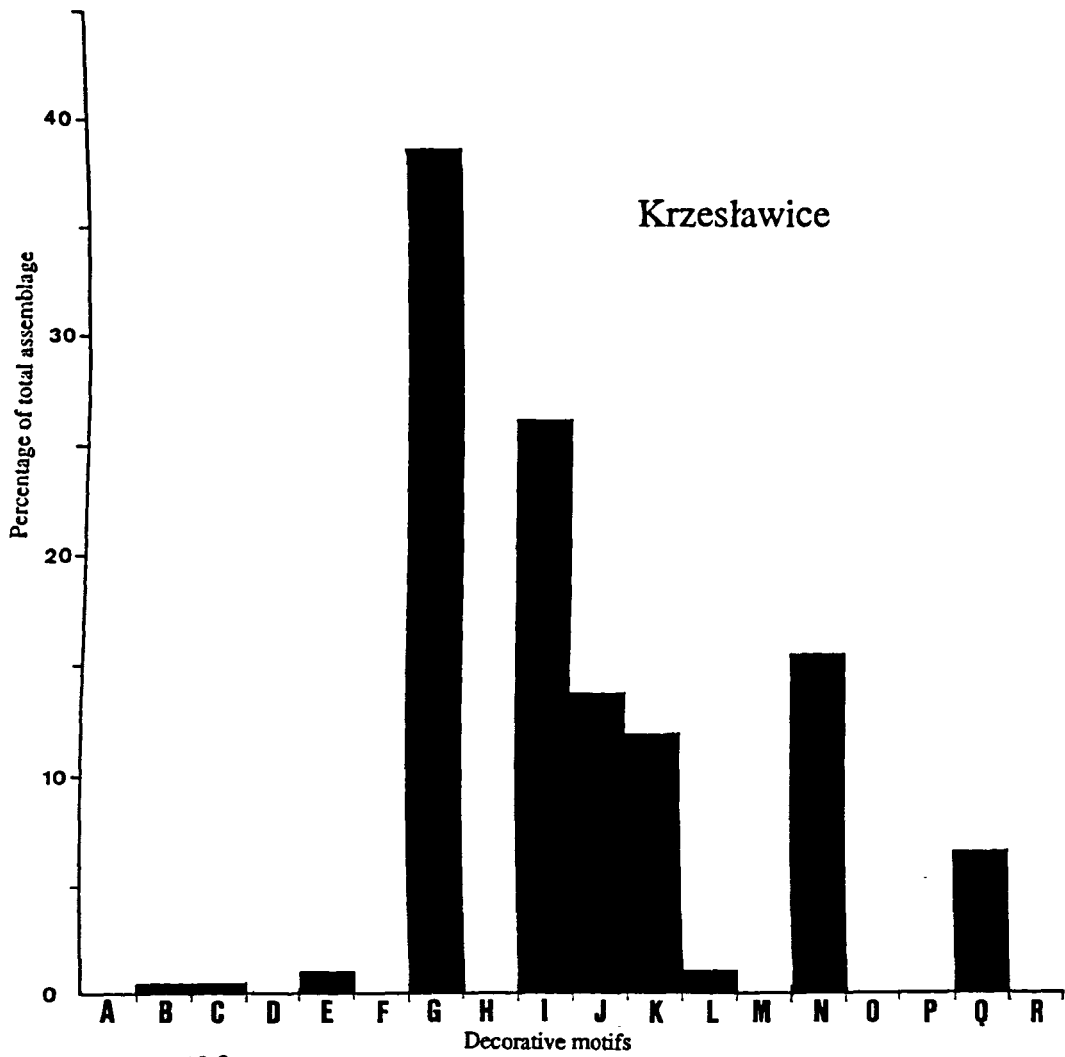


Figure 5.19.2

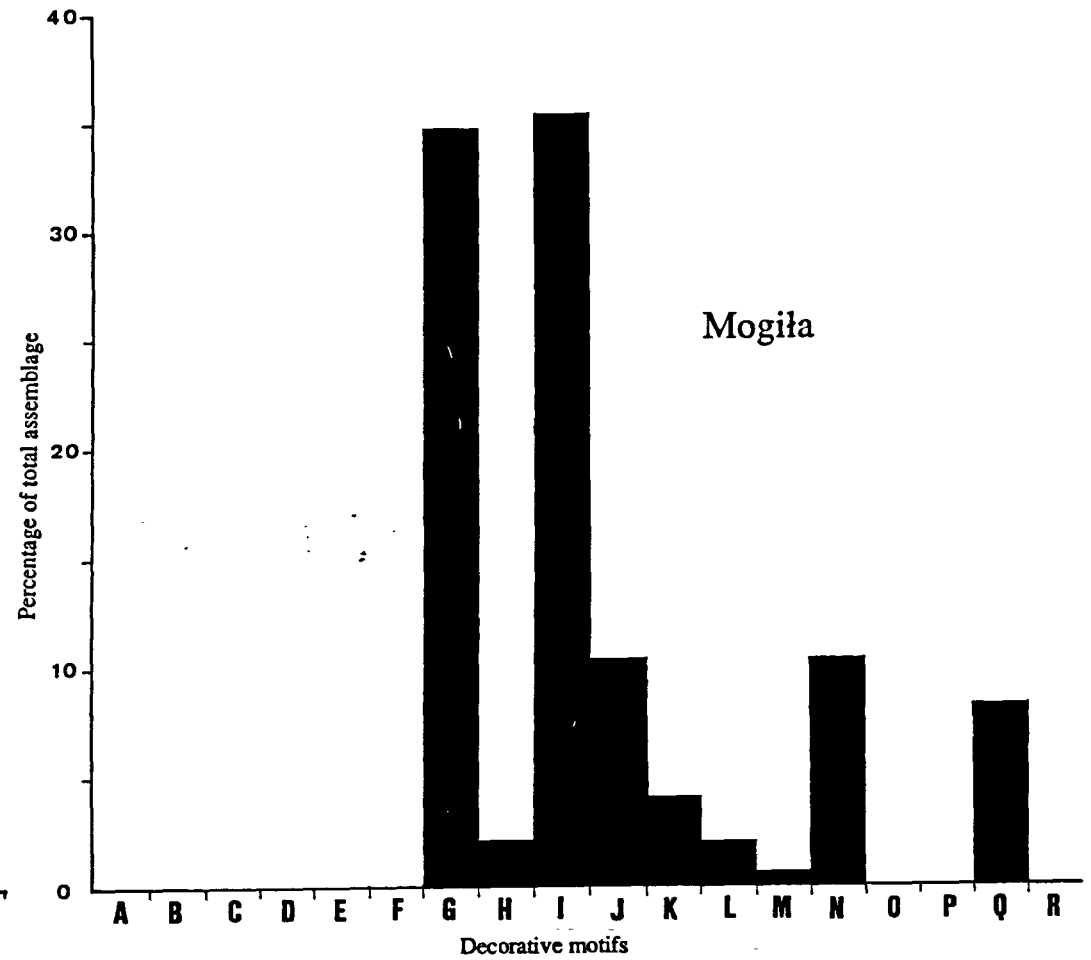
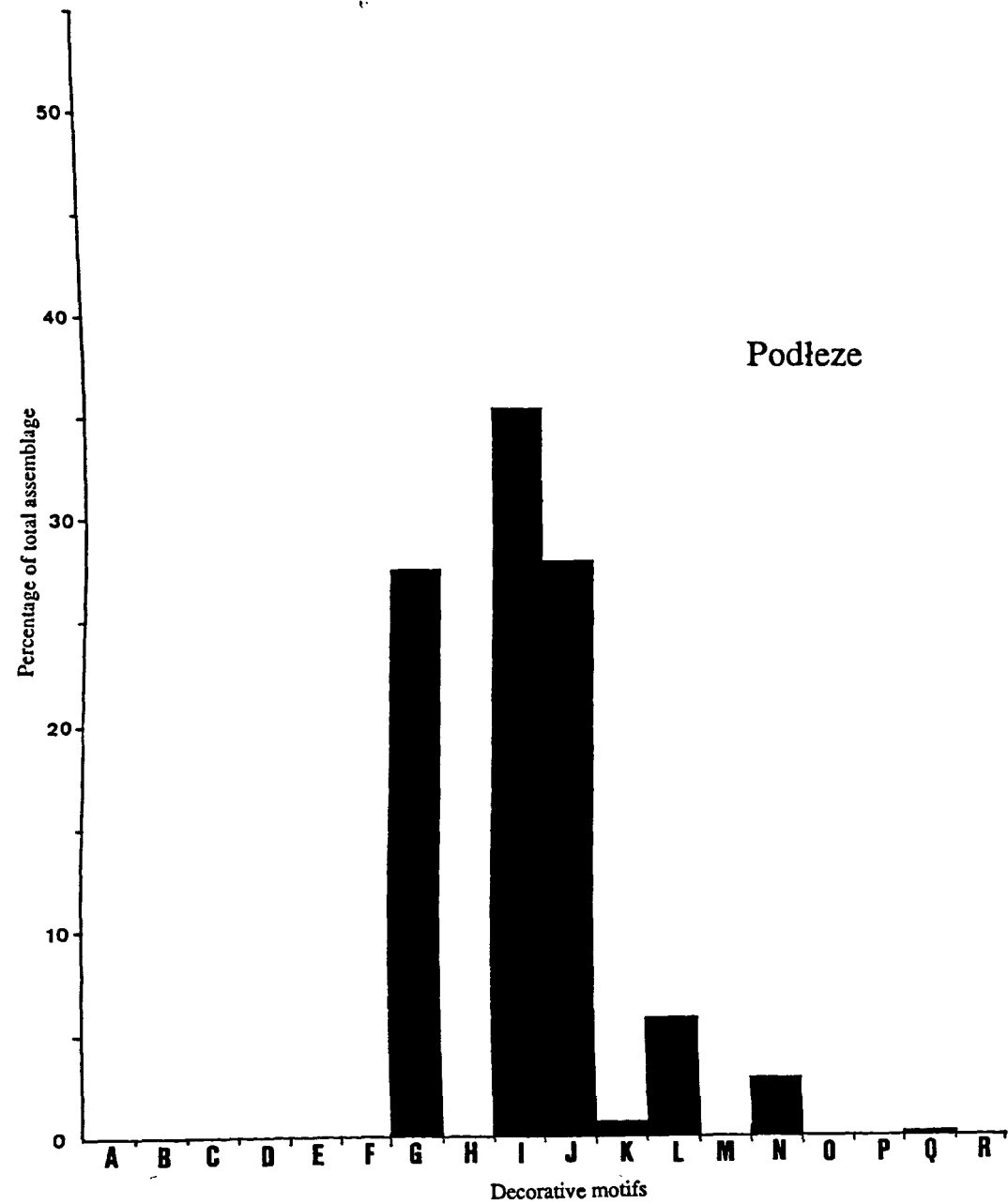


Figure 5.19.3

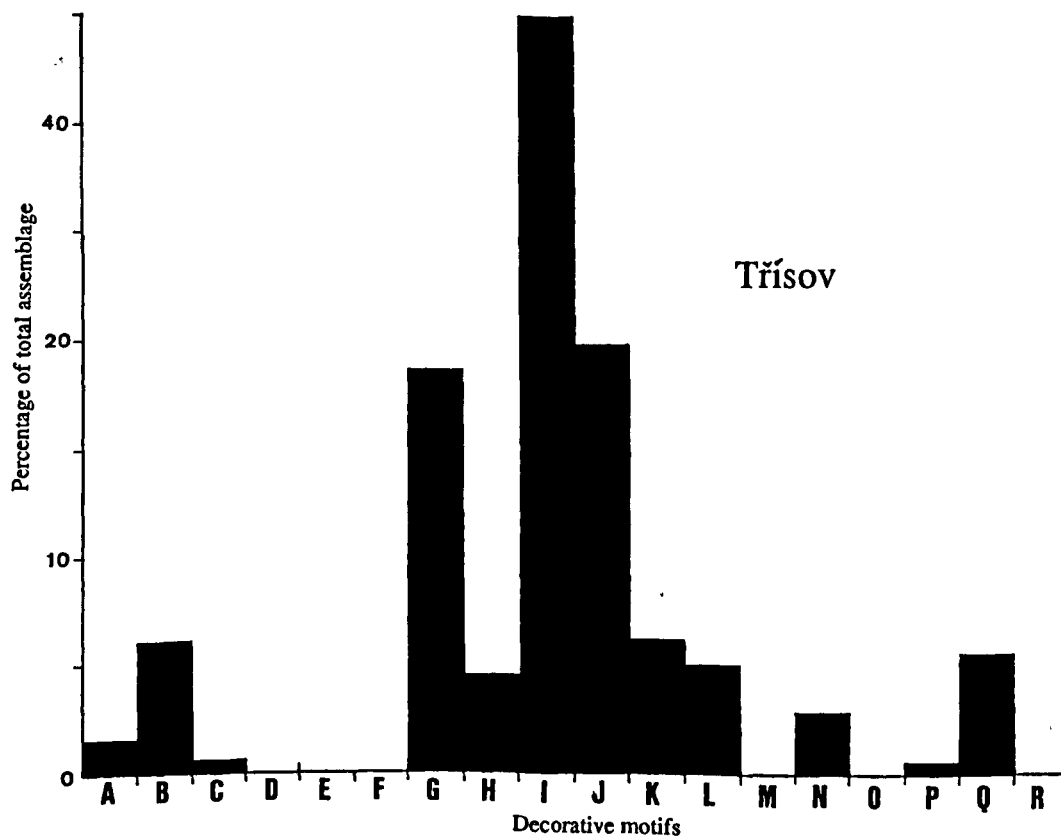
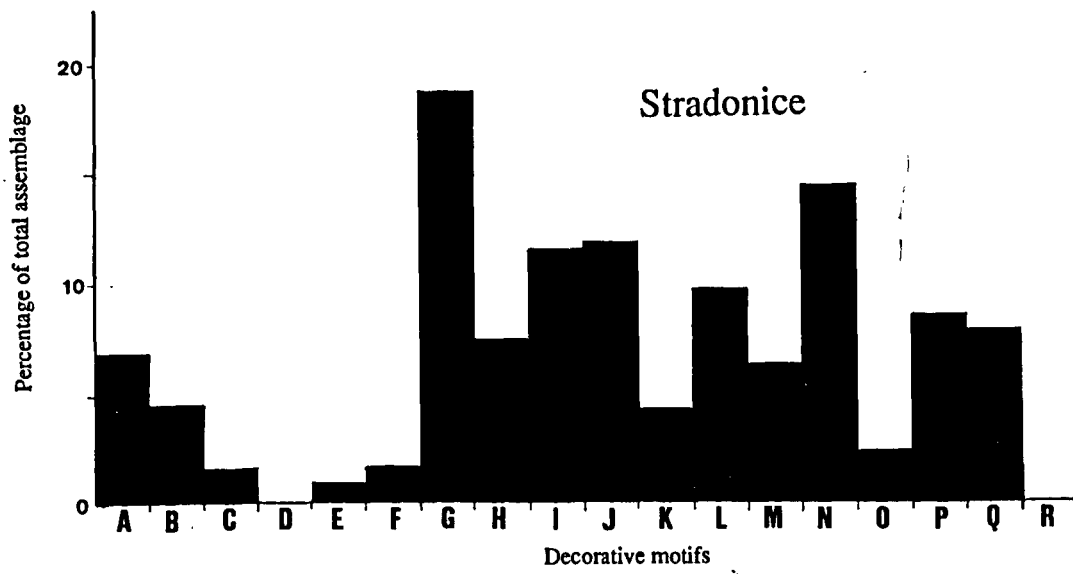


Figure 5.19.4

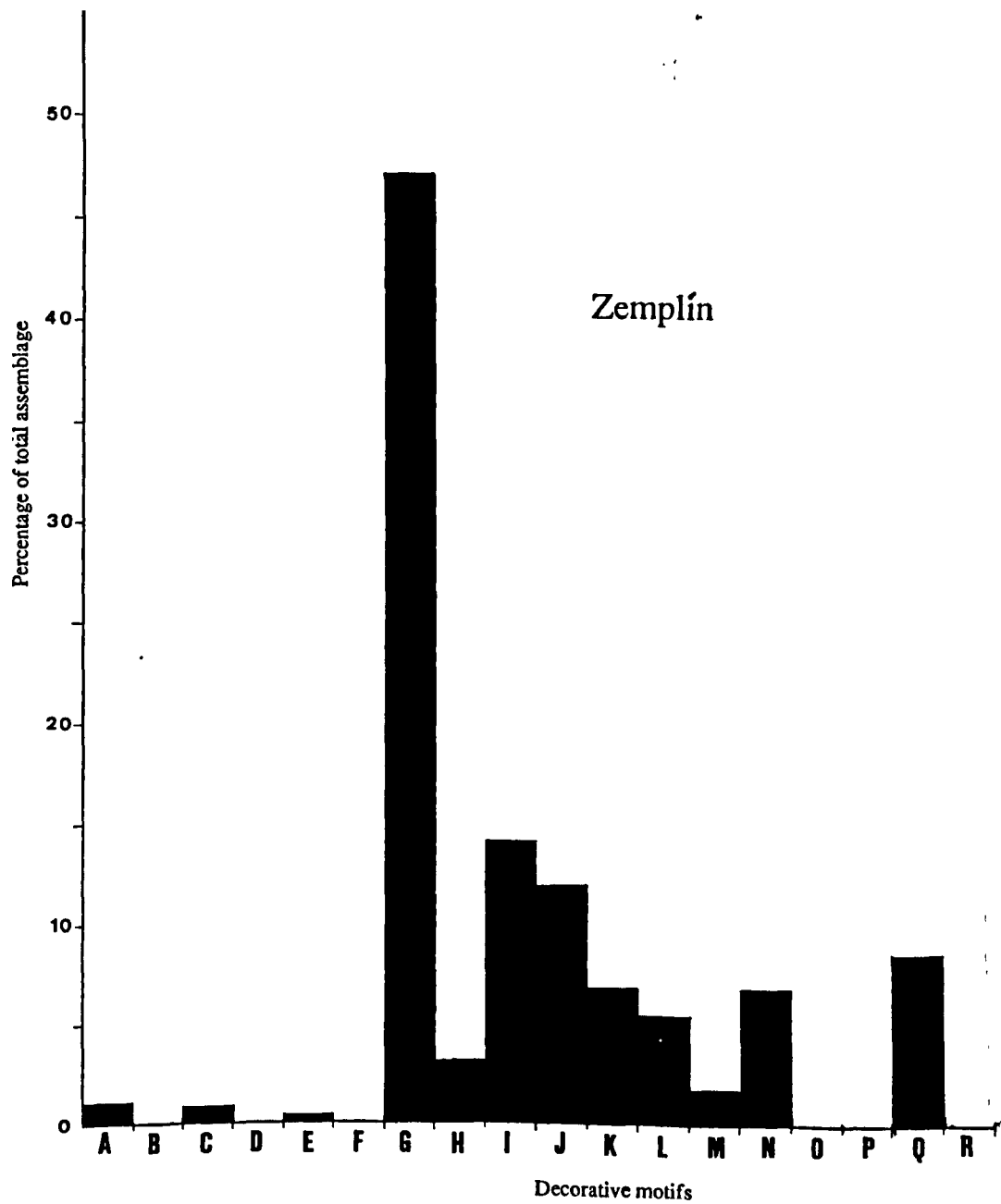
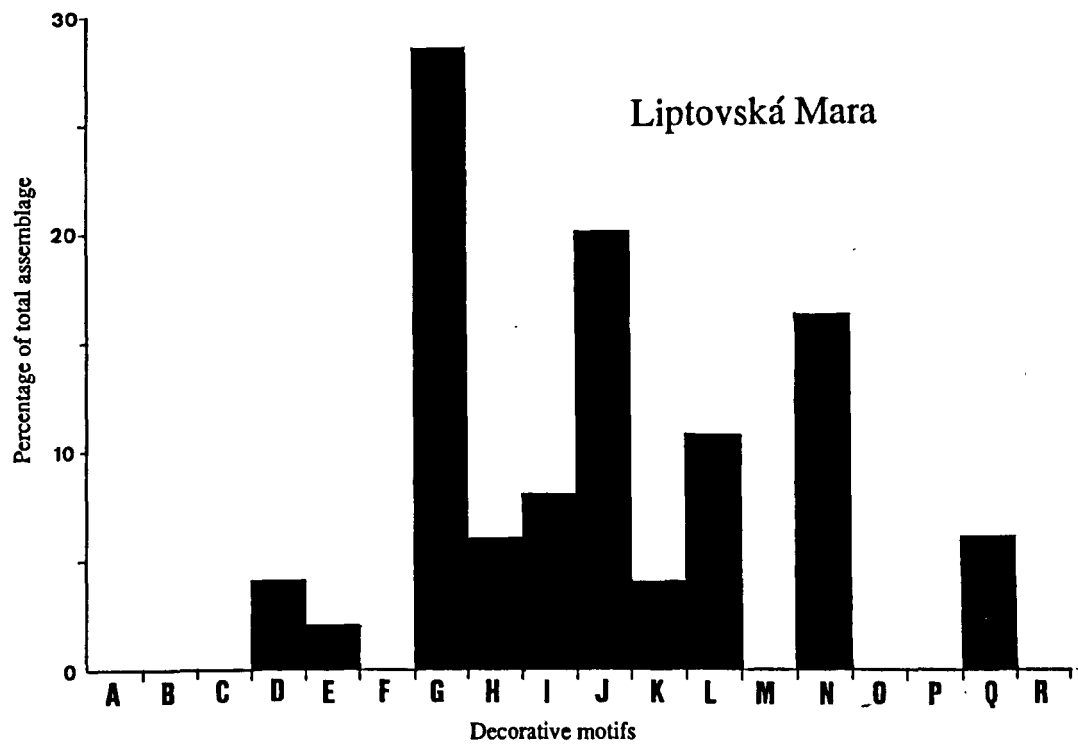


Figure 5.19.5

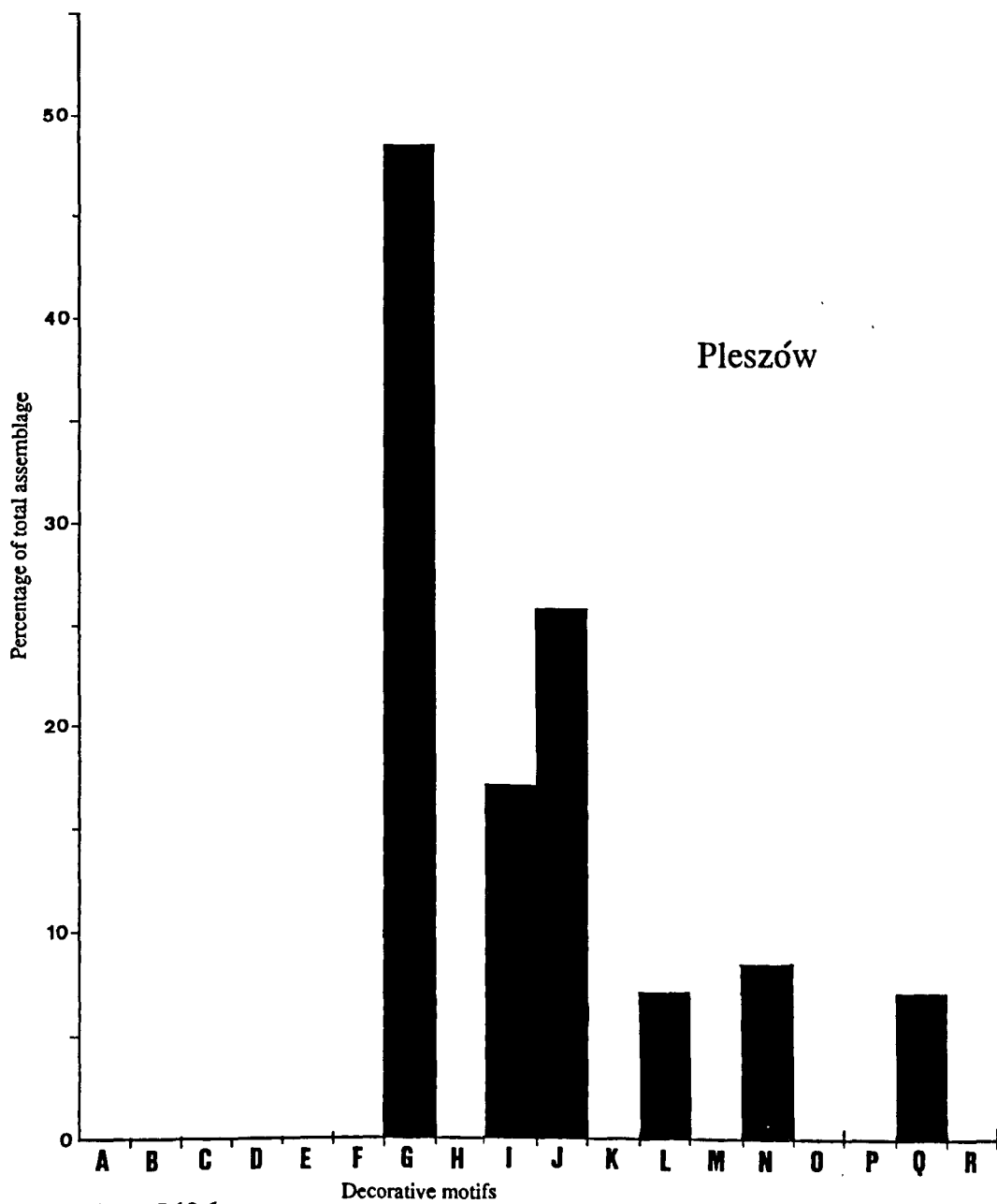


Figure 5.19.6

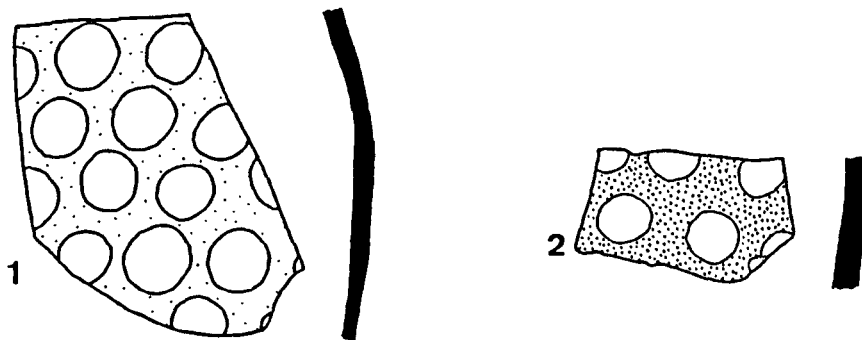
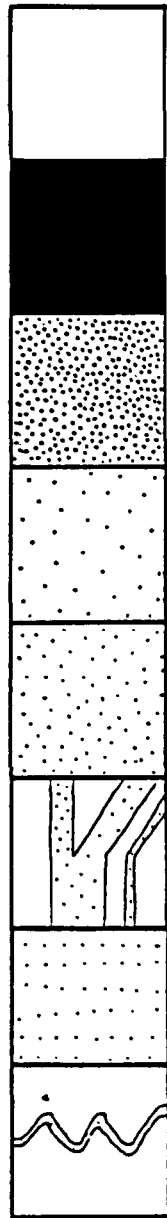


Figure 5.20.  
1) Stradonice 104608 2) Závist D/47



# Key



**White**

**Black**

**Dark Red**

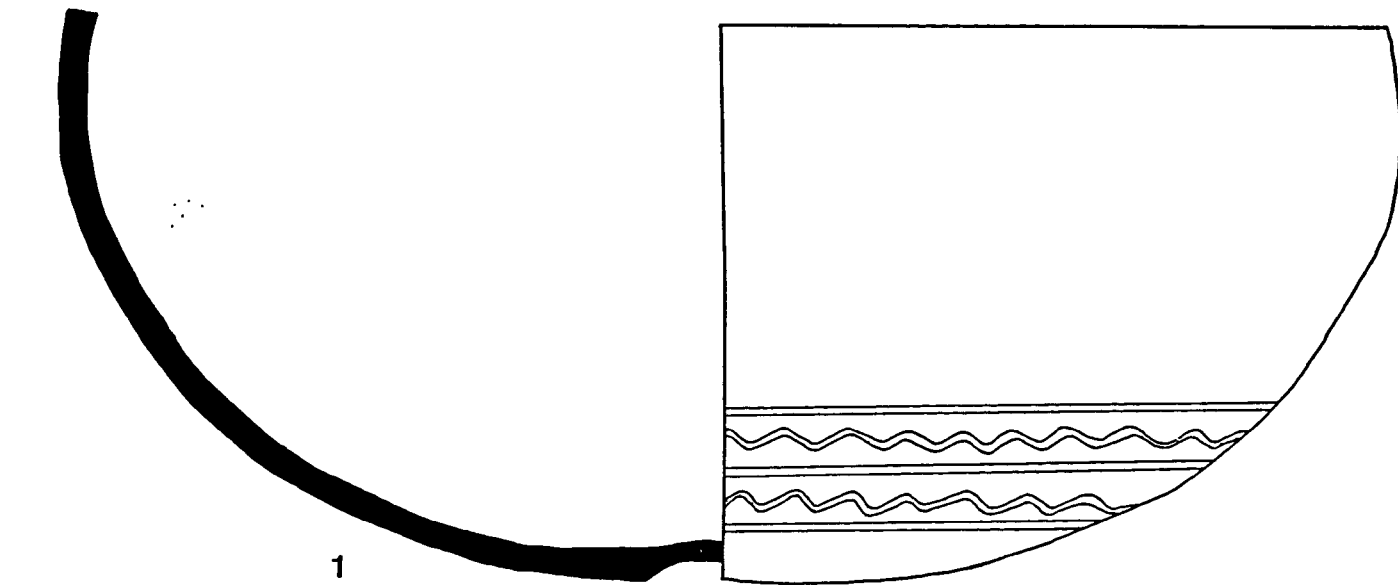
**Light Red**

**Unpainted**

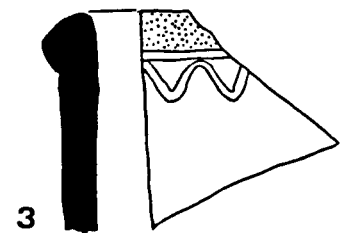
**Grey Decoration**

**Damaged**

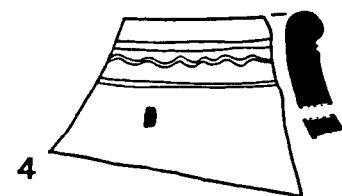
**Incised lines**



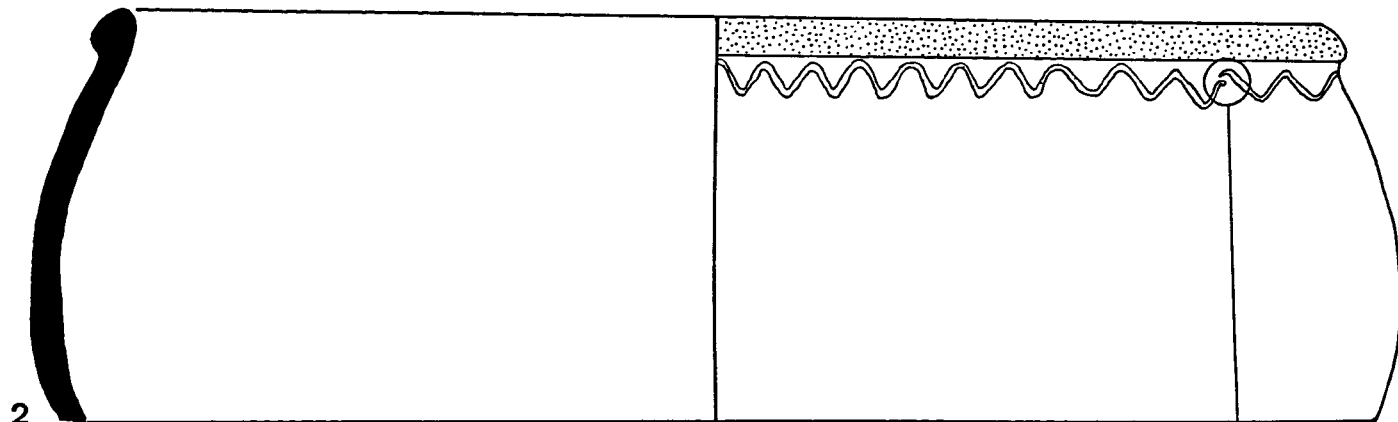
1



3



4



2



5



Cms.

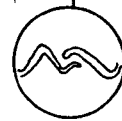


Figure 5.21.1.

1 and 2) Vlineves 2927-3307 191/37 3) Polepy 10632 4) Stradonice 104564  
5) Vlineves 3307a



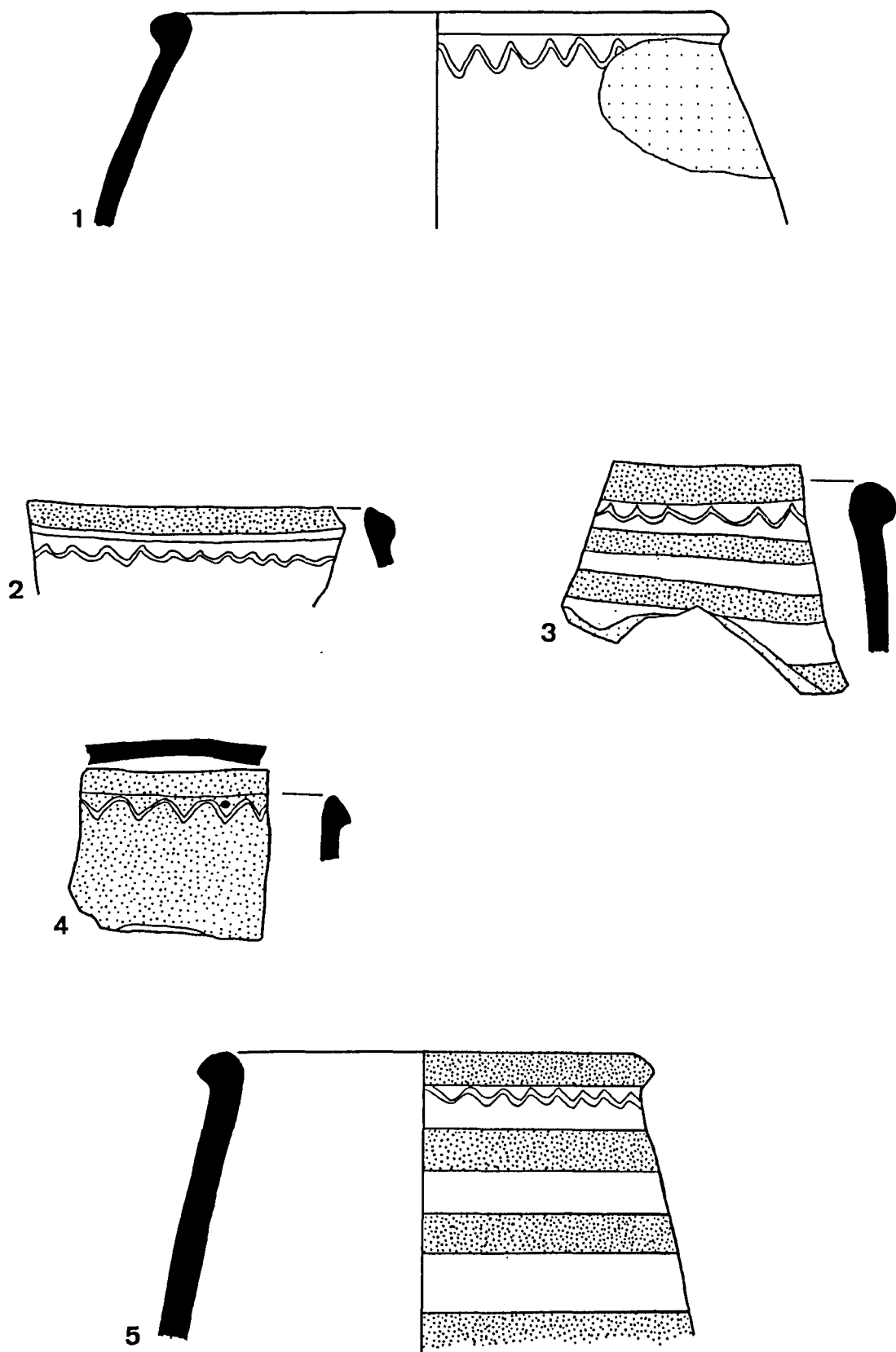


Figure 5.21.2.

- 1) Stradonice 104579 2) Stradonice 104546 3) Stradonice 104568  
 4) Stradonice 104564 5) Stradonice 104569

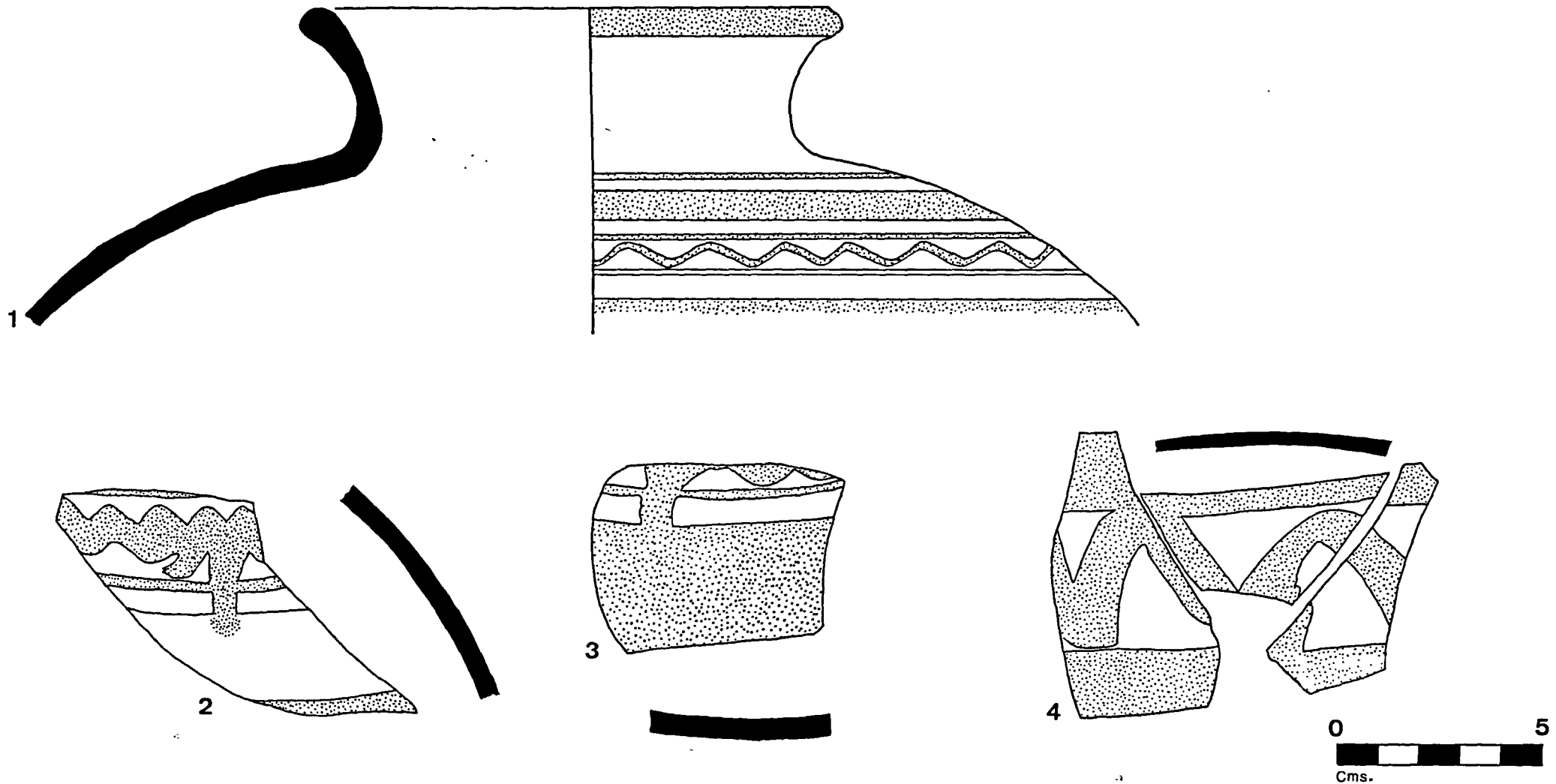


Figure 5.22.1.

- 1) Esztergom 73.173.3 2) Taban 1936 40/115 3) Taban 1936 40/45 36.67.28  
 4) Taban 36.58.5

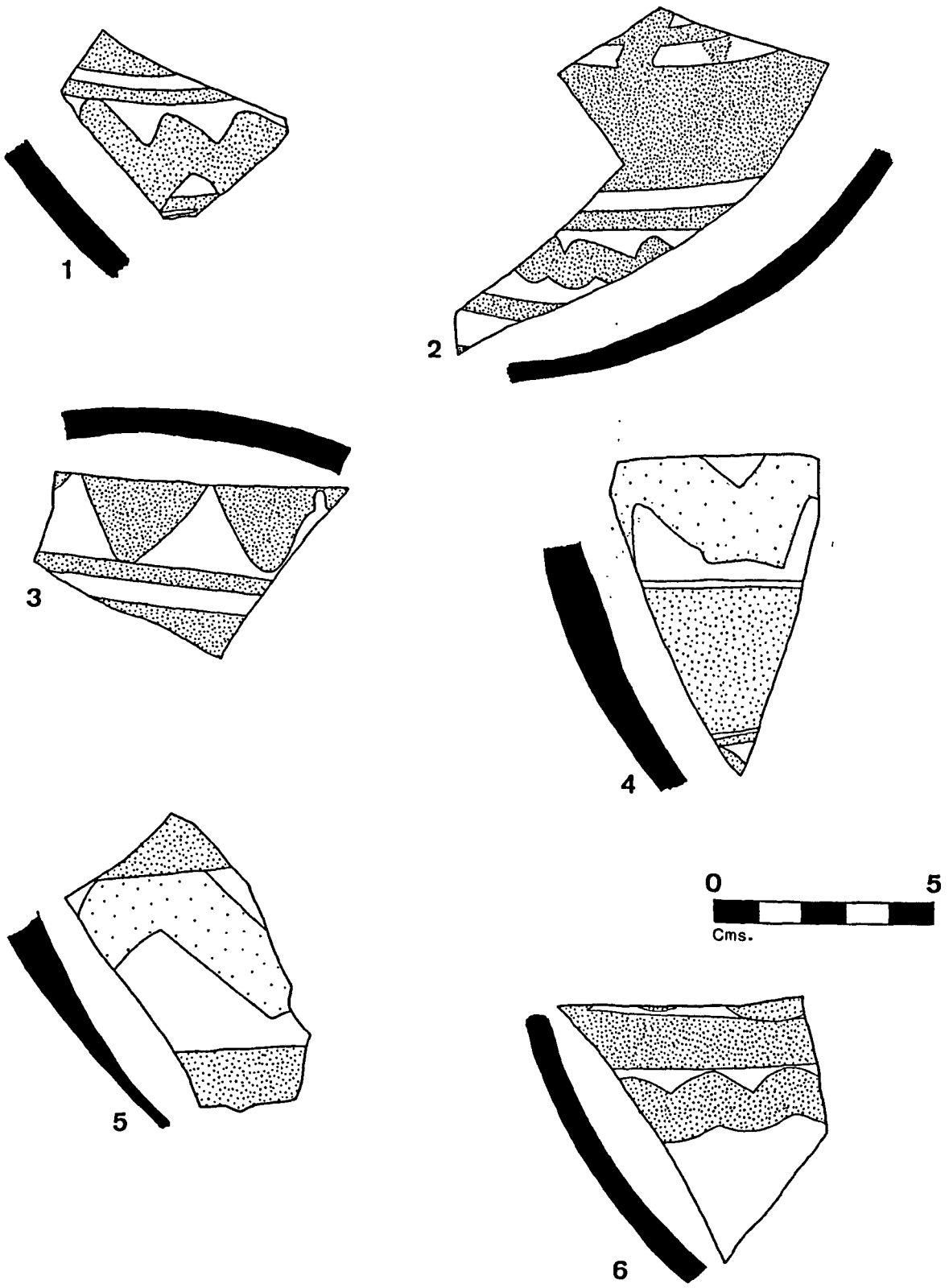


Figure 5.22.2.  
 1) Taban 1936/40 2) Taban 36.67.28 3) Taban 36.40.2 4) Taban 36.58.5  
 5) Taban 36.58.5 6) Nitriansky Hradok 11550

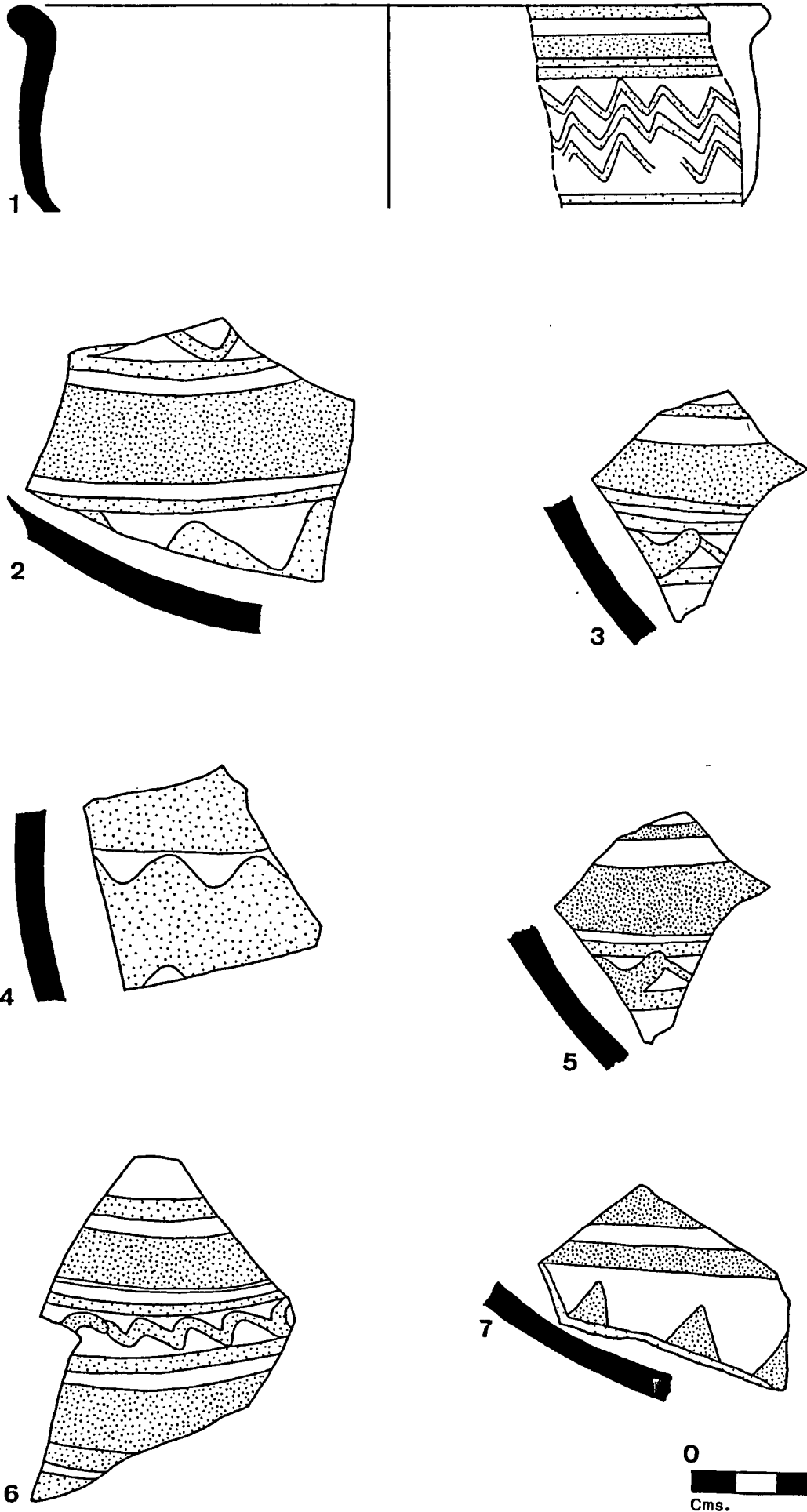


Figure 5.22.3.

1) Esztergom 75.233.1 2) Esztergom 69.102.1 3) Esztergom 75.240.4

4) Esztergom 75.507.2 5) Esztergom 75.240.4 6) Esztergom 73.43.7 7) Esztergom 68.60.17

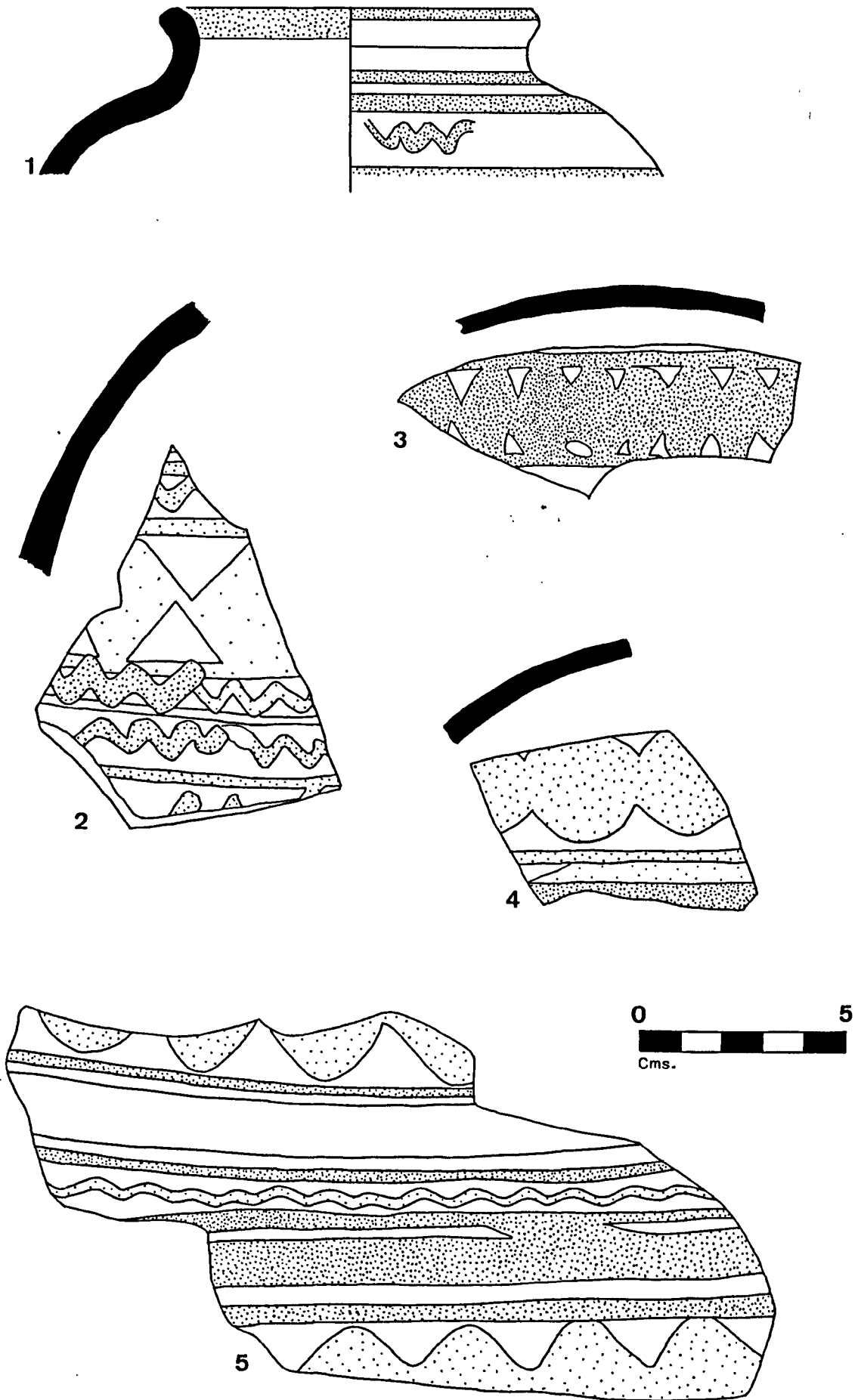


Figure 5.22.4.

- 1) Esztergom 2) Esztergom 75.227.1 3) Esztergom 71.11.7  
 4) Esztergom 68.56.27 5) Esztergom 73.51.5

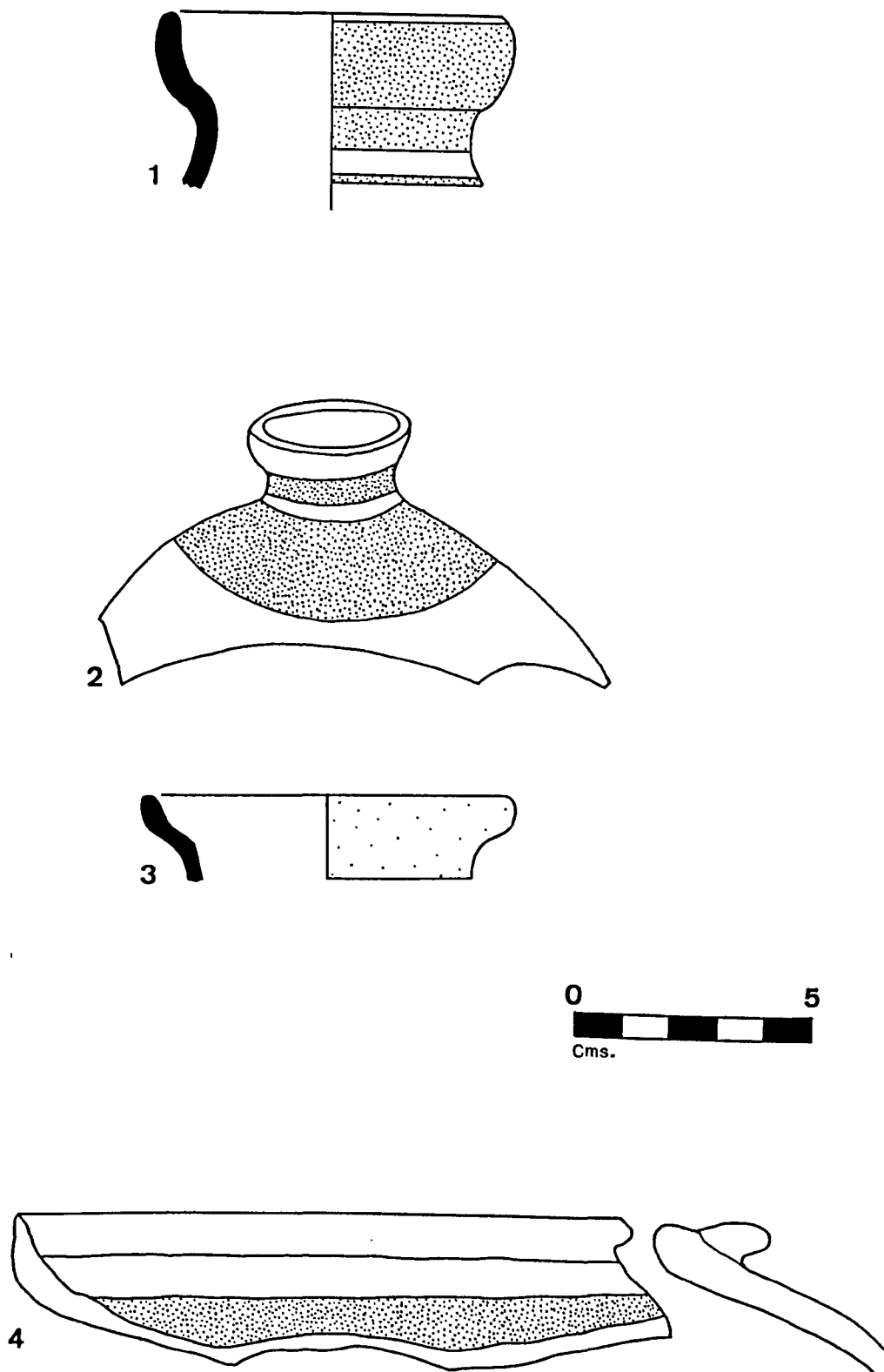


Figure 5.23.1.  
 1) Pleszow M.A.K. 1157/51 2) Tyniec Klastorisko (After Lenczych 1956)  
 3) Kvacány 1/72 a 4) Pleszow M.A.K. NH 36/296 (After Toboła, not published)

Numbers 2 and 4: Not to scale

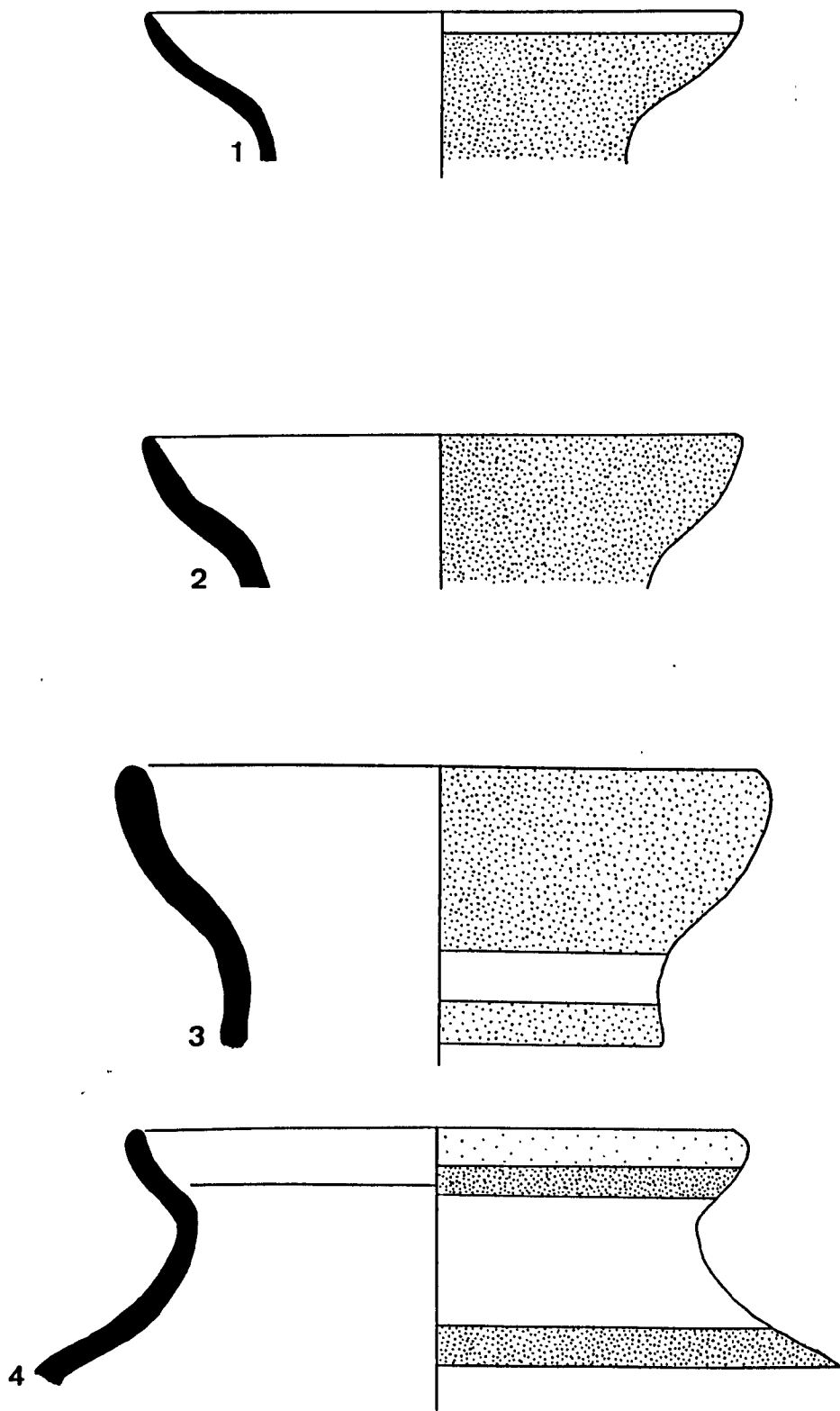


Figure 5.23.2.  
 1) Mogiła 509/56 2) Krzesławice sk.25/79, 39/80 3) Krzesławice 137/62  
 4) Esztergom 71.8.28

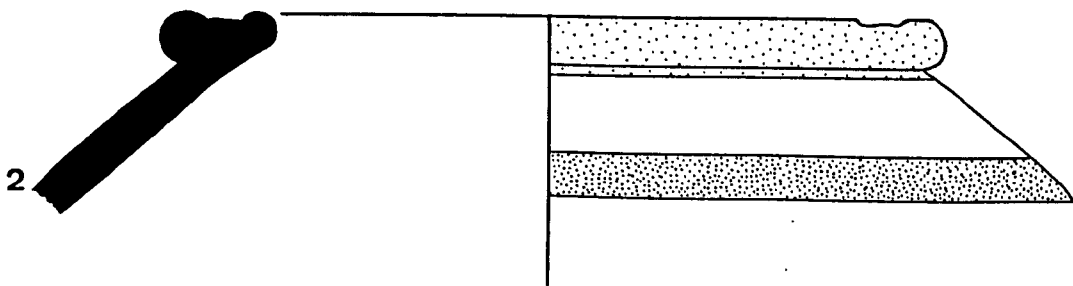
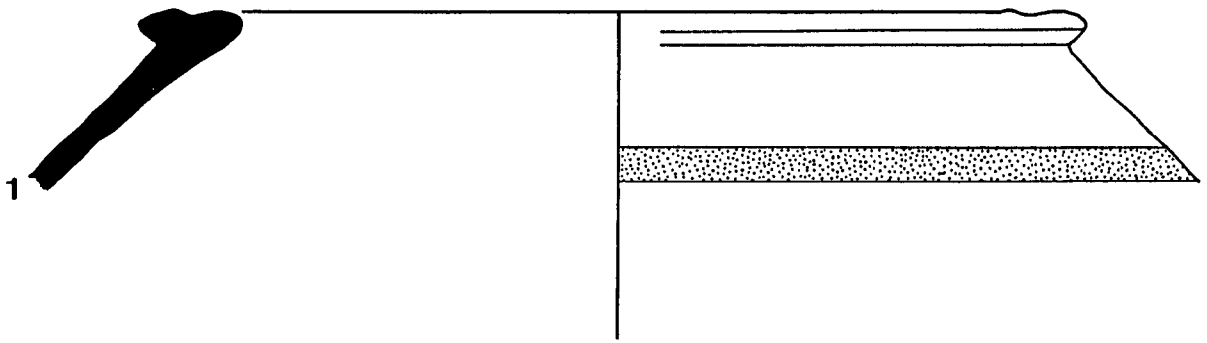


Figure 5.23.3.  
1) Krzesławice sk.76 40/81 2) Gellerthegy 1946/6





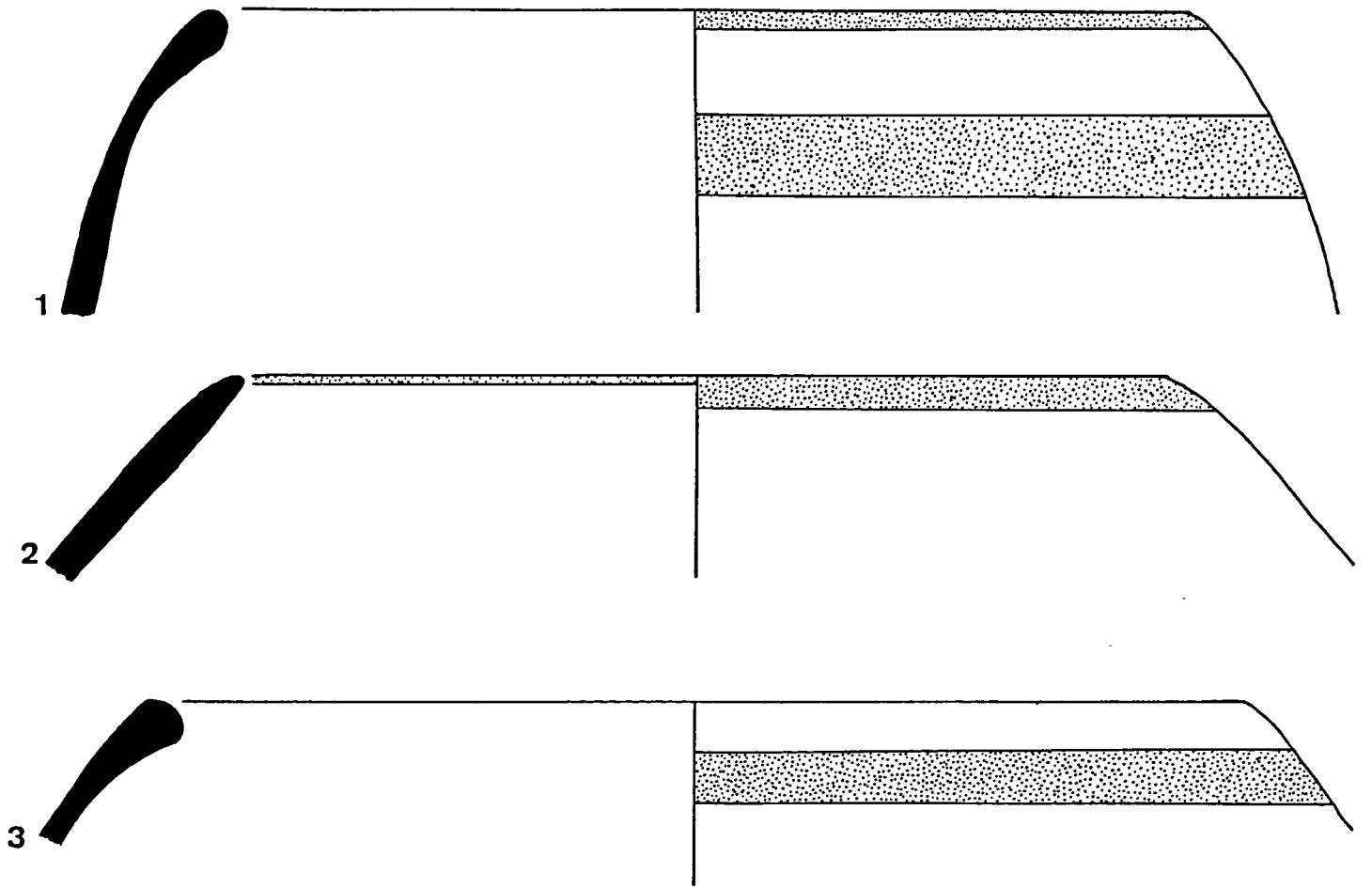


Figure 5.24.1.

1) Gellertegy 53.29.30 2) Taban 36.16.20 3) Mogila NH 8/534, 557/8



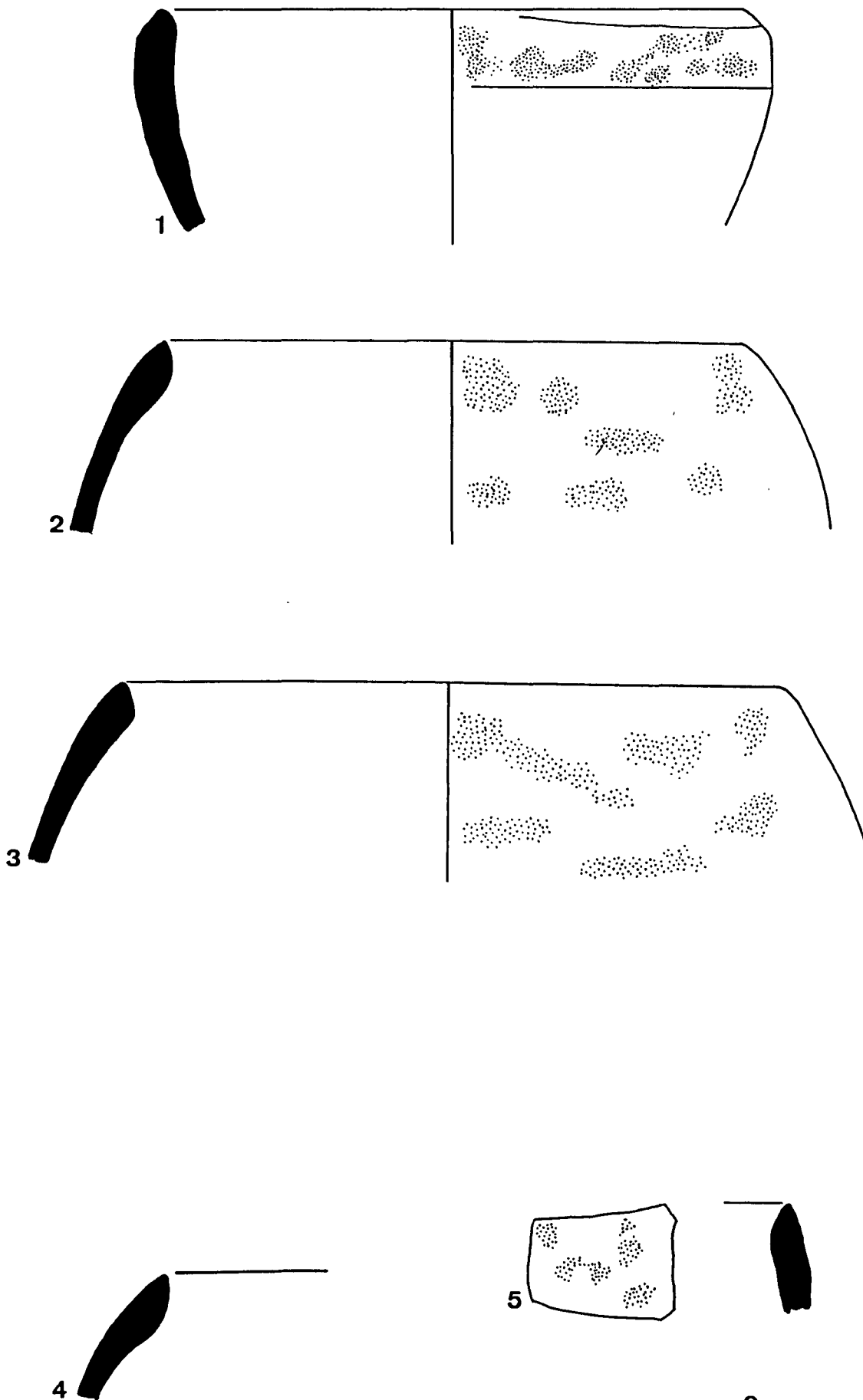
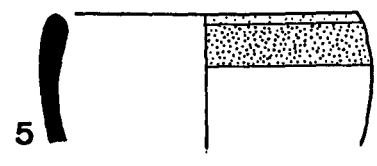
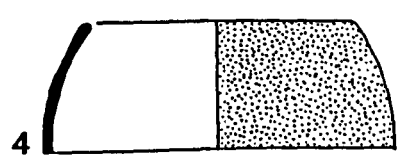
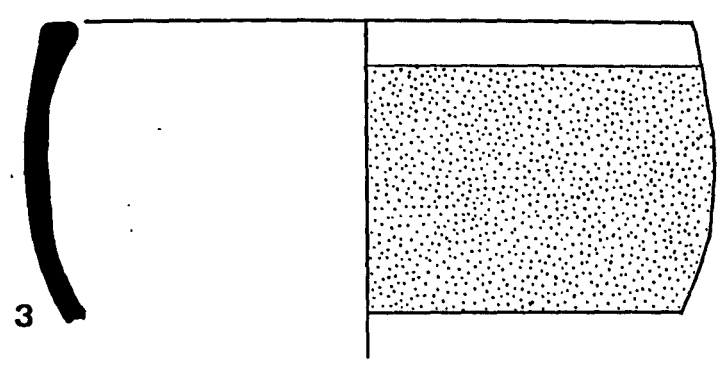
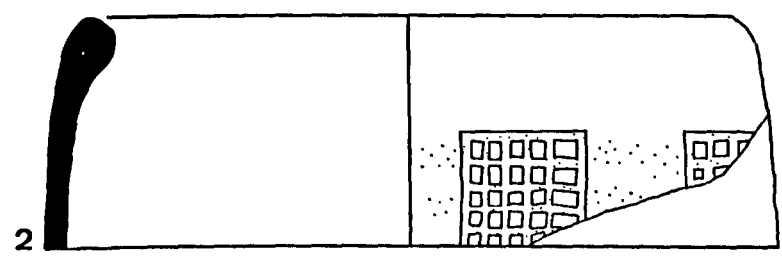
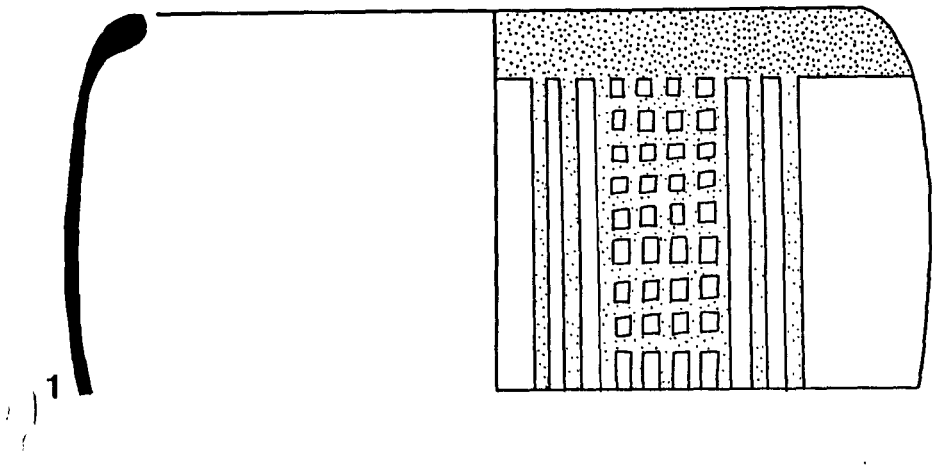


Figure 5.24.2.

1) Stradonice 104768 2) Stare Hradisko 602 - 965/34

3) Stare Hradisko 602 - 3582/65 4) Otaslavice 5) Stare Hradisko  
602 - 308/34





0 10  
CMS.

0 5  
Cms.

Figure 5.24.3.  
 1) Zemplín 81/78 2) Esztergom 75.515.1 3) Zemplín SI 63-502  
 4) Pteni (After Venclova 1990) 5) Gellerthegy 53.18.20

The following abbreviations have been used in the the labelling of the dendrograms. The fabric group to which each sample belonged are indicated by the numbers (n) after each site name. The relative sizes of these fabric groups are illustrated in figures 5.1 - 5.15. The numbers in the left hand column relate to the entry for that site in appendix 1.

<b>Bohemia</b>		
1	Stradonice okr. Beroun	STRAD <sub>n</sub>
2	Závist okr. Prague	ZAVIST <sub>n</sub>
3	Nevězice okr. Písek	NEV <sub>n</sub>
6	Třísov okr. Český Krumlov	TRISOV <sub>n</sub>
5	Český Lhotice okr. Nasavrky	CESKELH <sub>n</sub>
8	Sedlo okr. Sušice	SEDLO
12	Kašperske Hory okr. Klatovy	KASP.H
13	Skaly okr. Písek	SKALY
14	Lažiste okr. Písek	LAZISTE <sub>n</sub>
18	Kuřimany okr. Strakonice	KMY <sub>n</sub>
19	Nova Ves okr. Kolín	NOVAVES
22	Polepy okr. Kolín	POLEPY
10	Čertova Ruka okr. Turnov	CERTRUKA
24	Vlínoves okr. Mělník	VLINOVES
32	Vikletice 2 okr. Chomutov	VIK'CE
35	Lovosice okr. Litoměřice	LOVOS <sub>n</sub>
<b>Moravia.</b>		
37	Staré Hradisko okr. Prostějov	SHRAD <sub>n</sub>
38	Brno - Horní Herspice okr. Brno	BRNO HH
113	Brno - Obřany 'Skaly' okr. Brno	BRNO OBR
40	Holubice okr. Vyskov	HOLUBICE
41	Milovice okr. Breclav	MILOVICE
42	Klentnice okr. Breclav	K'NICE
43	Otaslavice okr. Prostějov	O'VICE
44	Drzovice okr. Prostějov	D'VICE
46	Hrubčice okr. Prostějov	HRUBCICE
47	Křenovice okr. Prerov	KR'VICE
49	Bořítov okr. Blansko	BORITOV
<b>Slovakia.</b>		
50	Bratislava	BRAT.FS <sub>n</sub>
53	Pobedim	POBEDIM
54	Nitra - Hrad Okr. Nitra	N.HRAD
55	Nitra - Mikov Dvor Okr. Nitra	NMD <sub>n</sub>
56	Nitriansky Hradok Okr. Nitriansky Hradok	NHR <sub>n</sub>
58	Iža	IZAn
59	Komarno	KOM'NO <sub>n</sub>
61	Uľany nad Zitavou	U.N.Z.
63	Púchov okr. Povážska Bystrica	PUCHOV
64	Prosné Okr. Povážska Bystrica	PROSNE
65	Divinka Okr. Žilina	DIVINKA
66	Vyšný Kubín Okr.	V.K. <sub>n</sub>
68	Kvačany	KVAn
70	Liptovská Mara	L.MARAn
75	Machalovce	MAC <sub>n</sub>
77	Zemplín	ZEM <sub>n</sub>
	Zemplín (Košice collection)	ZEMK
<b>Poland.</b>		
84	Turbia	TURB
85	Krzyszawice - Kraków	KRZ'CE <sub>n</sub>
86	Biezanów - Kraków	BIEZANOW
87	Bolen - Kraków	BOLEN
88	Mogila - Kraków	MOGILAn
89	Pleszów - Kraków	PL'ZOW <sub>n</sub>
	Pleszów (Arch. Museum, Kraków coll.)	PLESK <sub>n</sub>
91	Podłęże - Kraków	POD <sub>n</sub>
92	Przemęcany - Kraków	PRZMY
93	Targowisko -	TARG
95	Tyniec Zawawoźcie	TYNIEC <sub>n</sub>
96	Wieliczka - Kraków	WIEL'KA
97	Wyciaże - Kraków	WYCIAZE
<b>Hungary.</b>		
104	Tabán/Gellerthégy - Budapest	TABAN/BPG <sub>n</sub>
106	Esztergom	ESZTER <sub>n</sub>
105	Bekasmegyer - Budapest	BEKMEG <sub>n</sub>
109	Fleissig Collection (Two unprovenanced sherds)	FLEG <sub>n</sub>

### **Key to accompany Figure 5.25**

The numbers below the sample codes indentify those groups which included typologically distinctive material.

- 1 - Red wavy bands**
- 2 - Incised wavy lines**
- 3 - Inturned rim bowl (Moravian type)**
- 4 - Wax resist decoration**
- 5 - Miniature storage jar**
- 6 - Chalice rimmed jar**

120,945

108,850

96,756

84,661

72,567

60,472

48,378

36,283

24,189

12,095

0,000

- MOGILA 1A
- KRZCE 10
- LOVOS 1
- BEKMEG 2
- BEKMEG 10
- MAK699
- BEKMEG 13
- BEKMEG 14
- MOGILA 5
- BOLEN
- 1 WIELKA
- TURB8187
- KRZCE 5
- KRZCE 6
- 0 ZEMK 192
- 0 TYNIEC 1
- CEKEL 3
- PLZOW 1
- 0 KVA 172A
- ZAVIST 5
- MOGILA 8A
- MOGILA 10
- TABAN 1
- 1 ESZTER 10
- KOMNO 1
- BEKMEG 8
- LOVOS 2
- KOMNO 9C
- TABAN 5
- TRISOV 12
- PODLEZE
- 0 L.MARA 50
- UN.Z.
- TABAN 9AR
- STRAD 2
- TABAN 2C
- LOVOS 4
- TABAN 15
- TABAN 4A
- TABAN 4A
- 1 ESZTER 6
- MOGILA 4
- 1 KRZCE 1
- KRZCE 8R
- PLESK 3
- ZAVIST 2
- POD 1
- TABAN 11A
- TRISOV 10
- TRISOV 10
- BIEZANOW
- BRAT.FS 5
- POD 2
- TABAN 12
- MBK 12
- POD 3A
- PLZOW 8
- POD 5
- MBK 5351B
- 0 KRZ 2
- 1 TABAN 10R
- 1 ESZTER 7A
- 0 KRZCE 2B
- TRISOV 8
- PLZOW D
- FLEG 1
- TABAN 17
- KRZCE A
- V.K. 8
- TRISOV 15
- L.MARA 40
- BRAT.FS 1
- BRAT.FS 2
- BRAT.FS 4
- BEKMEG 1
- BEKMEG X
- KOMNO 2A
- BEKMEG 5
- TABAN 2A
- TABAN 6
- 1 ESZTER 11
- ZEM 11
- TABAN 2D
- ESZTER 9A
- ZEM 9
- 1 NHR 2
- TRISOV 16
- POD 1A
- SEDLO
- PLZOW 4
- ESZTER 6A
- PLESK 5
- 1 ESZTER 3A
- 1 ESZTER 5
- TABAN 4C
- TURB8164
- ESZTER 4
- KRZCE 2A
- KRZCE 3
- BEKMEG 3
- 4 STRAD 10
- 4 STRAD 5A
- OVICE
- KOMNO 6
- 0 STRAD 12
- 0 KRZCE 3A
- BEKMEG 11
- IZA - C
- 0 KRZCE 7
- WYCIAZE
- PLZOW 3
- ZAVIST 1
- BEKMEG 4
- BEKMEG 6
- PLZOW B
- ZEM 4
- PLZOW 7
- ZEM 6
- BEKMEG 2A
- PLESK 1
- 0 S HRAD 1
- POBEDIM
- PLZOW 2
- 4 STRAD 1
- CEKEL 2
- MOGILA 2
- BPC
- SKALY
- MAC - C
- BRAT.FS3
- ESZTER 6B
- TABAN 9
- ESZTER 9
- MBK 9
- MOGILA 2A
- TURB 8171
- BEKMEG 9
- TABAN 8
- ZEM 3
- TABAN 13
- ESZTER 8
- 0 ESZTER 7B
- MBK 13
- MOGILA 3
- BRNO HH
- 3 S HRAD 7
- 3 V.K. 7
- 0 S HRAD 2
- CEKEL 1
- 1 TABAN 2
- 0 S HRAD 6
- HOLUBICE
- FLEG 2
- TABAN 16
- KMY 2
- MBK 2
- NHR 5
- S HRAD 19
- S HRAD F
- CERTRUKA
- TABAN 3A
- KRZCE 81
- MAC - A
- KRZCE 1X
- TARO
- PRZ 2
- L.MARA 30A
- PLZOW 2A
- STRAD 19
- LOVOS 3
- TYNIEC 2
- MBK 10A
- V.K. 5
- PLZOW 6
- V.K. 7
- 0 ZAVIST 4
- V.K. 1R
- KVA - C
- KRVICE
- L.MARA 20
- L.MARA 90
- L.MARA 30
- BEKMEG 7
- L.MARA 60
- V.K. 1A
- L.MARA 91
- PROSNE
- STRAD 21
- KRZCE 4
- IZA - E
- TABAN 17A
- 1 ESZTER 1
- S HRAD 14
- L.MARA 10A
- PUCHOV
- NMD 748
- ESZTER 13
- MAC - B
- NHR 1
- 2 VLNEVES
- IZA - K
- V.K. 6
- 1 TABAN 4B
- STRAD 7
- STRAD 14
- MBK 4
- BRNO OBR
- 0 ZEMK 377A
- ZEM 1
- L.MARA 10
- PROSNE B
- S HRAD 12
- ZEMK 377B
- 1 TABAN 3
- STRAD 22
- KRZCE 9
- NHR 6
- 1 ESZTER 4A
- 1 TABAN 2B
- ESZTER 14
- ZEM 10
- L.MARA 70
- ZEM 8
- KOMNO 4
- TRISOV 7
- TABAN 14
- PLZOW A
- IZA - J
- TRISOV 9
- 2 STRAD 5
- STRAD 25
- S HRAD 11
- VIKCE
- NMD 293
- KVA - B
- DIVINKA
- STRAD 20
- STRAD 23
- 4 STRAD 3
- TRISOV 5
- NOPOLEPY
- STRAD 8
- NEV 27
- ZAVIST 6
- LAZISTE 3
- ZEM 5
- 3 S HRAD 8
- BEKMEG 12
- S HRAD 3
- 2 STRAD 17
- NHR 3
- NEV 26
- 2 STRAD 7
- STRAD 15
- V.K. 4
- 3 S HRAD 17
- S HRAD 9
- POD 3
- DVICE
- KASP. H
- NHR 4
- ESZTER 12A
- ESZTER 12
- KOMNO 3
- MBK 6
- NMD 98/80
- MBK 3
- MBK 11
- MBK 10
- NHR 3A
- IZA - A
- KOMNO 2
- STRAD 13
- TRISOV 1
- HRUBICE
- LAZISTE 4
- ZEMK 182
- LAZISTE 1
- STRAD 18
- STRAD 4
- S HRAD 4
- LAZISTE 2
- TRISOV 17
- TRISOV 14
- ZAVIST 3
- TRISOV 3
- STRAD 24
- S HRAD 13
- TRISOV 11
- BORITOV
- KMY 1
- ZAVIST 7
- MILOVICE
- STRAD 16
- BRAT. FS8
- TRISOV 13
- S HRAD 10
- KNICE 66/59
- S HRAD 15
- S HRAD 18
- MBK 1
- KNICE 78/59
- KRZCE 3C
- L.MARA 80
- ZEM 2
- NOVA VES
- N HRAD
- PLZOW 5
- V.K. 2
- 1 ESZTER 7C
- BRAT.FS 6
- ESZTER 1A
- ZEM 7
- TRISOV 4
- V.K. 2A
- MBK 5
- MBK 8
- STRAD 9
- STRAD 11

Figure 5.25

1A

1B

1C

1D

2A

2B

2C

2D

2E

2F

2G

2H

2I

2J

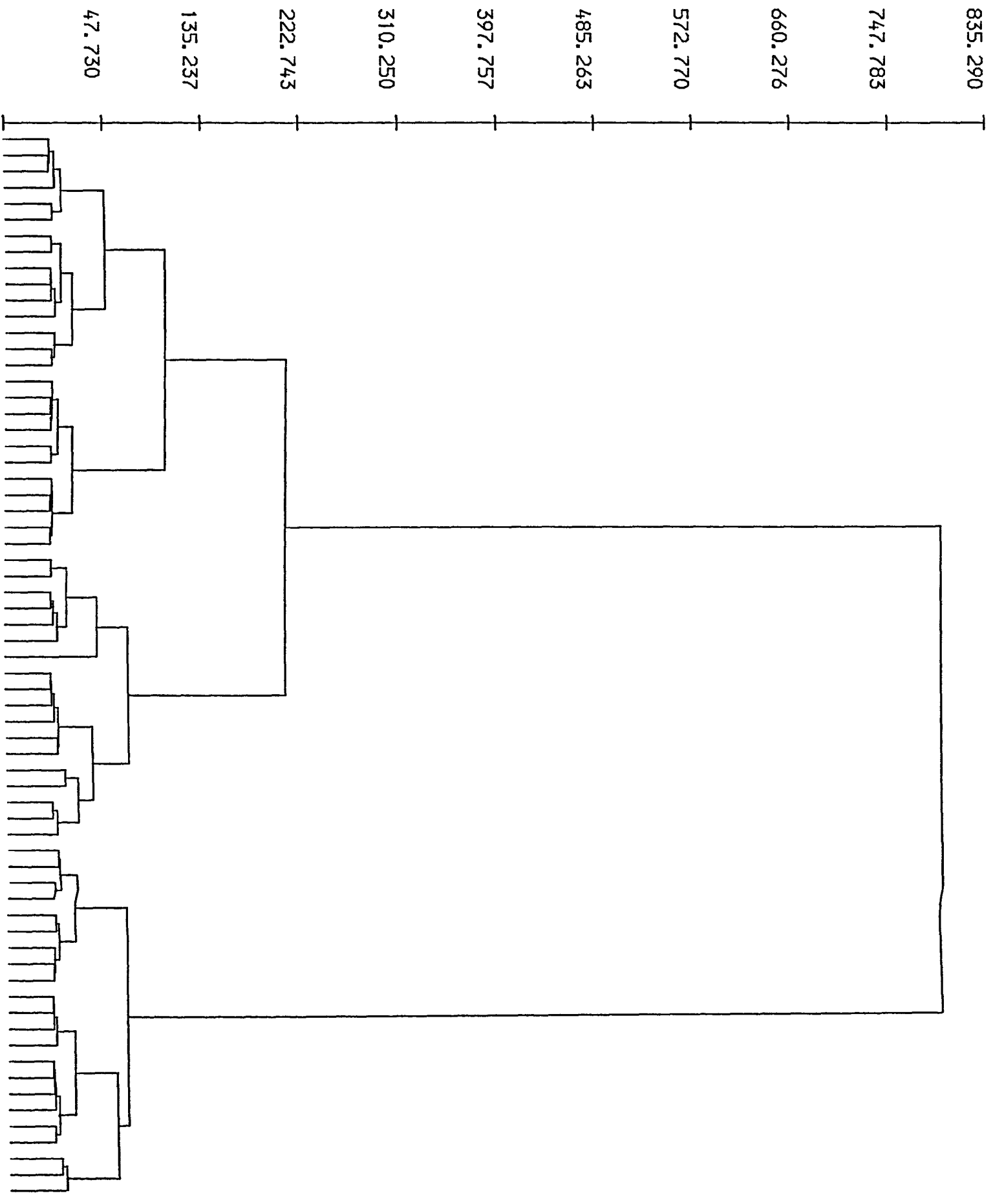


Figure 5.26 -

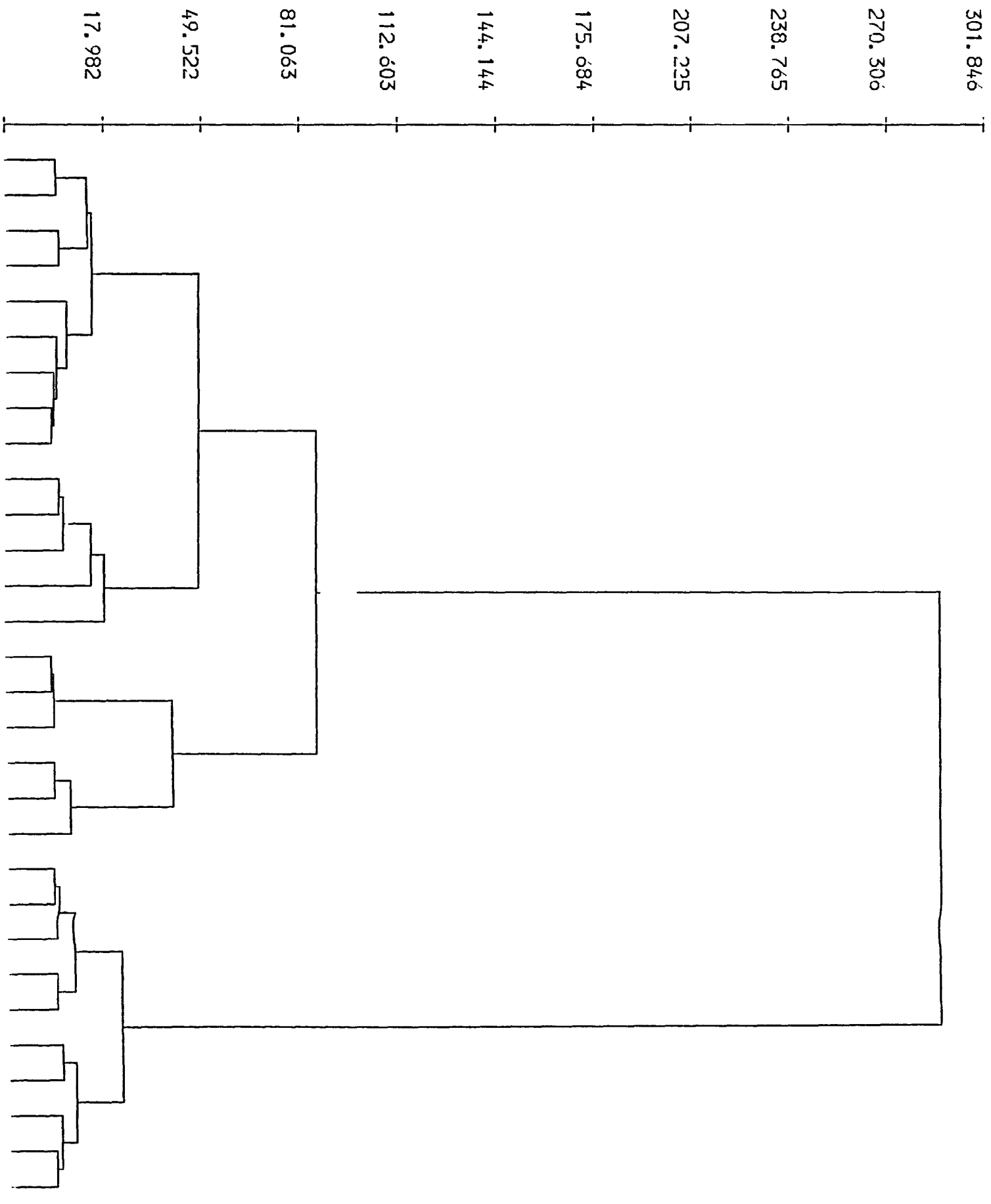


Figure 5.27



Figure 5.28

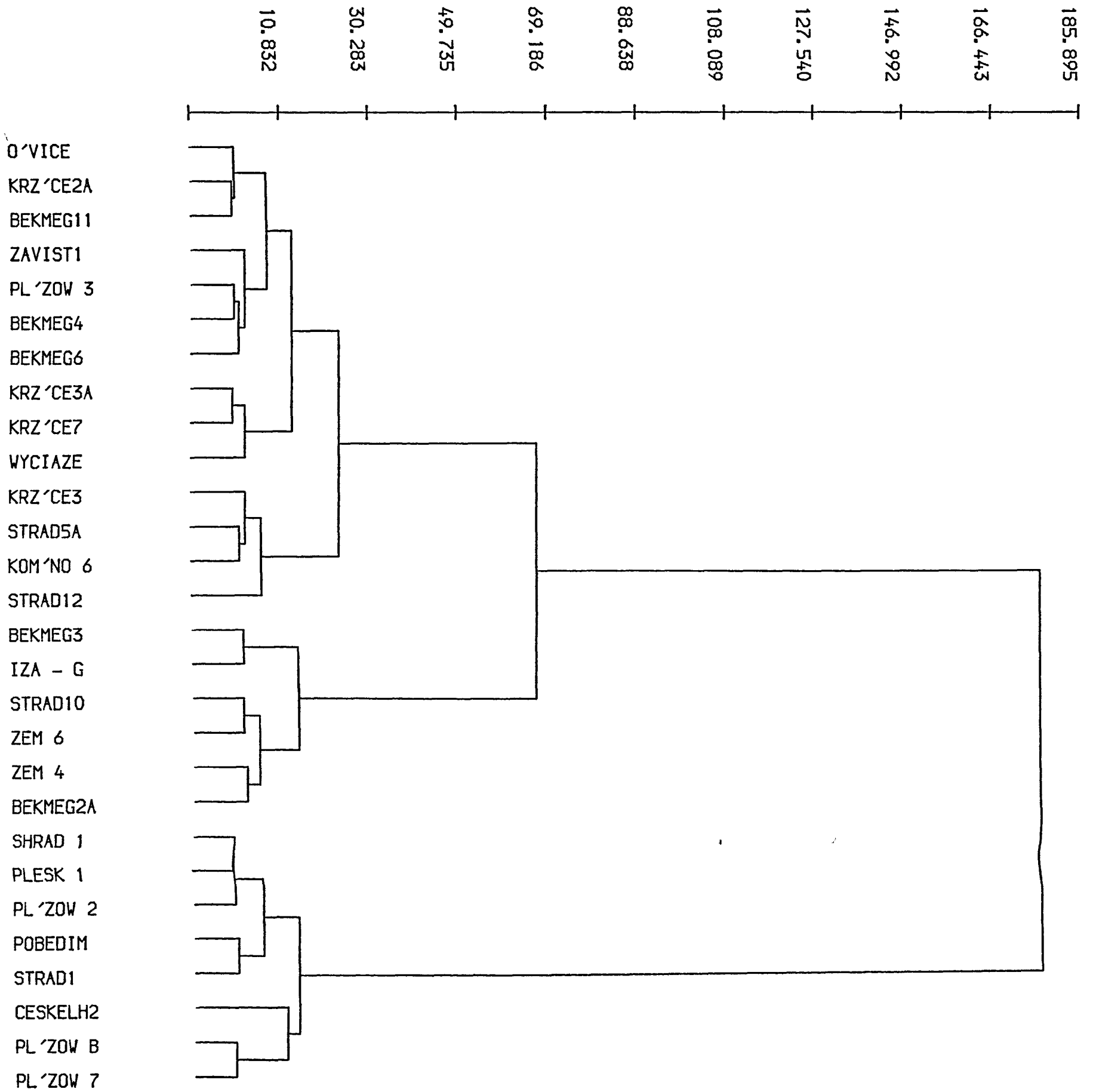
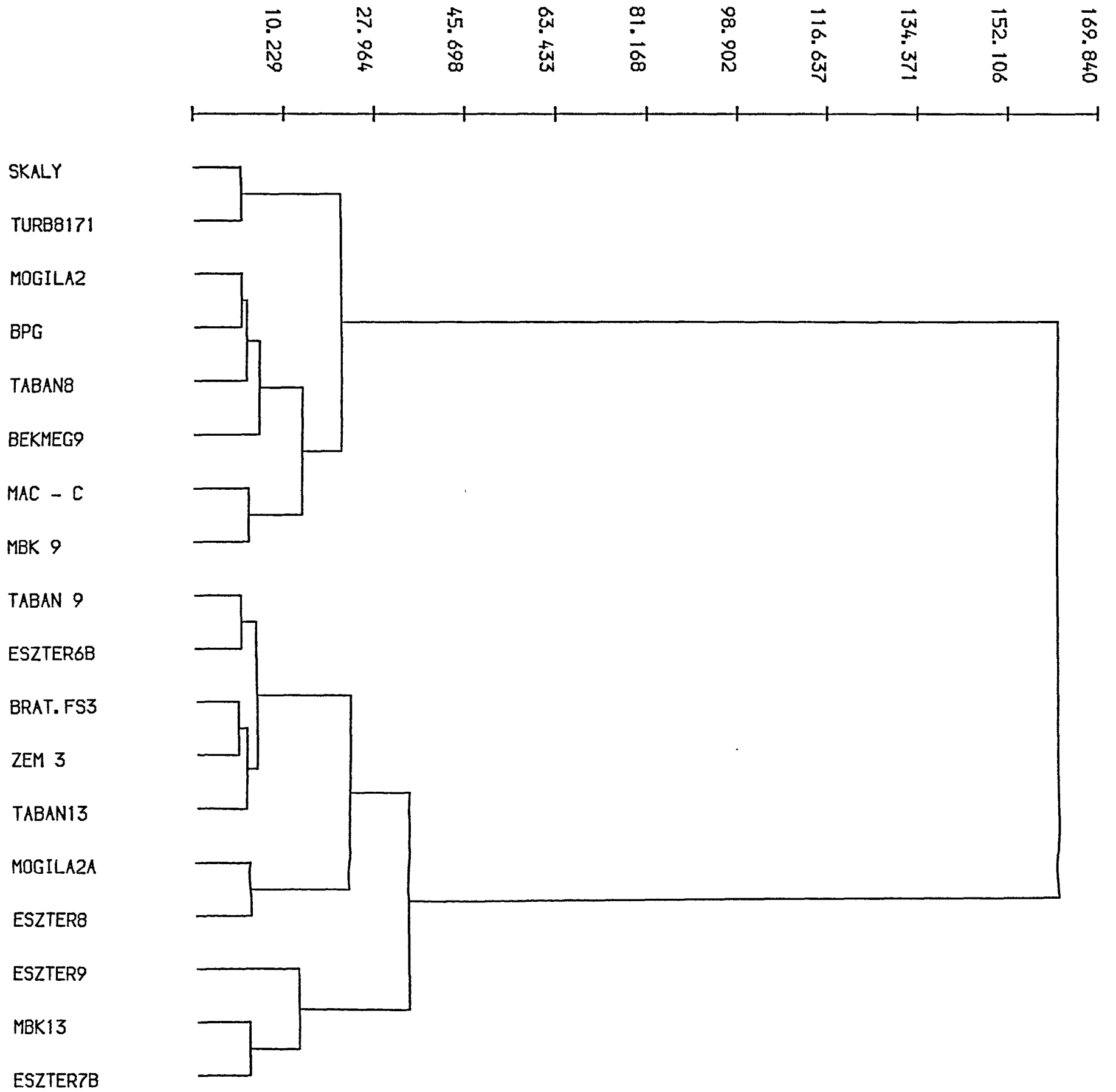


Figure 5.29



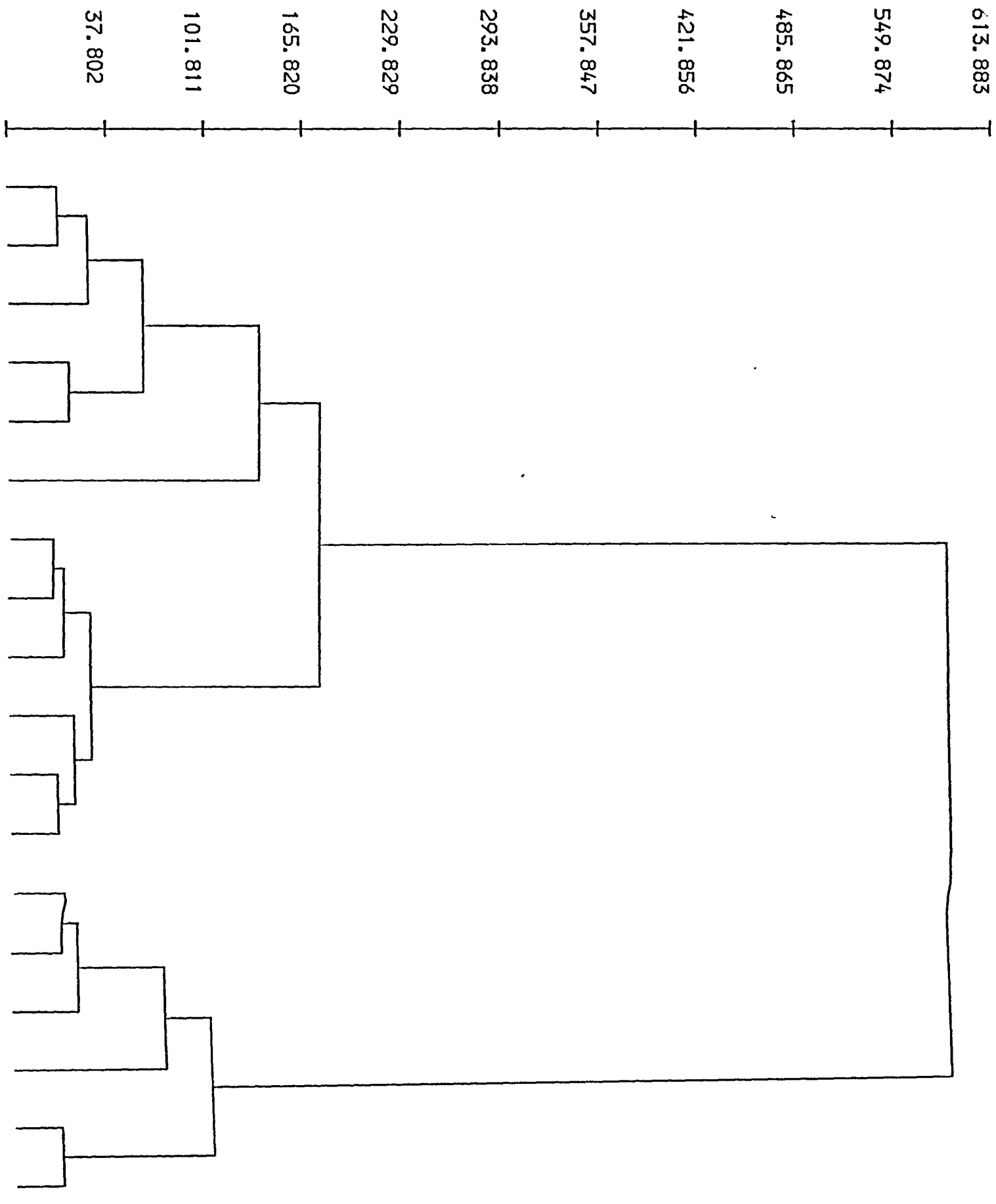
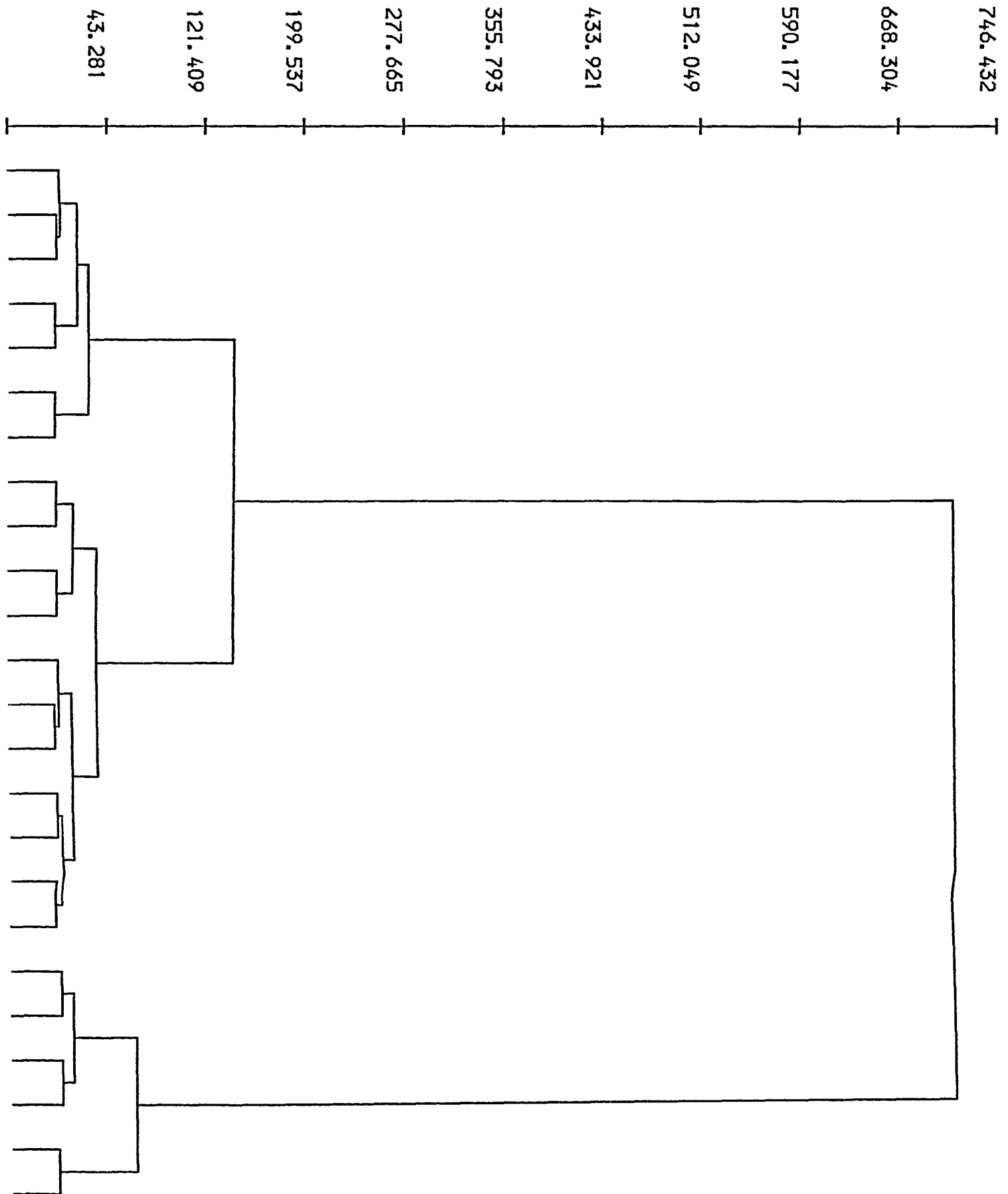


Figure 5.30

Figure 5.31

LOVOS 3  
MAC -A  
V. K 5  
KRZ'CE1X  
PZRMY 2  
PL'ZOW2A  
STRAD19  
LMARA30A  
KR'VICE  
PL'ZOW6  
KVA - C  
KRZ'CE81  
MBK 10A  
TYNIEC2  
TARG 1  
V. K. 1R  
ZAVIST4  
V. K. 3  
L. MARA20  
L. MARA90  
L. MARA60  
BEKMEG7  
L. MARA30  
V. K. 1



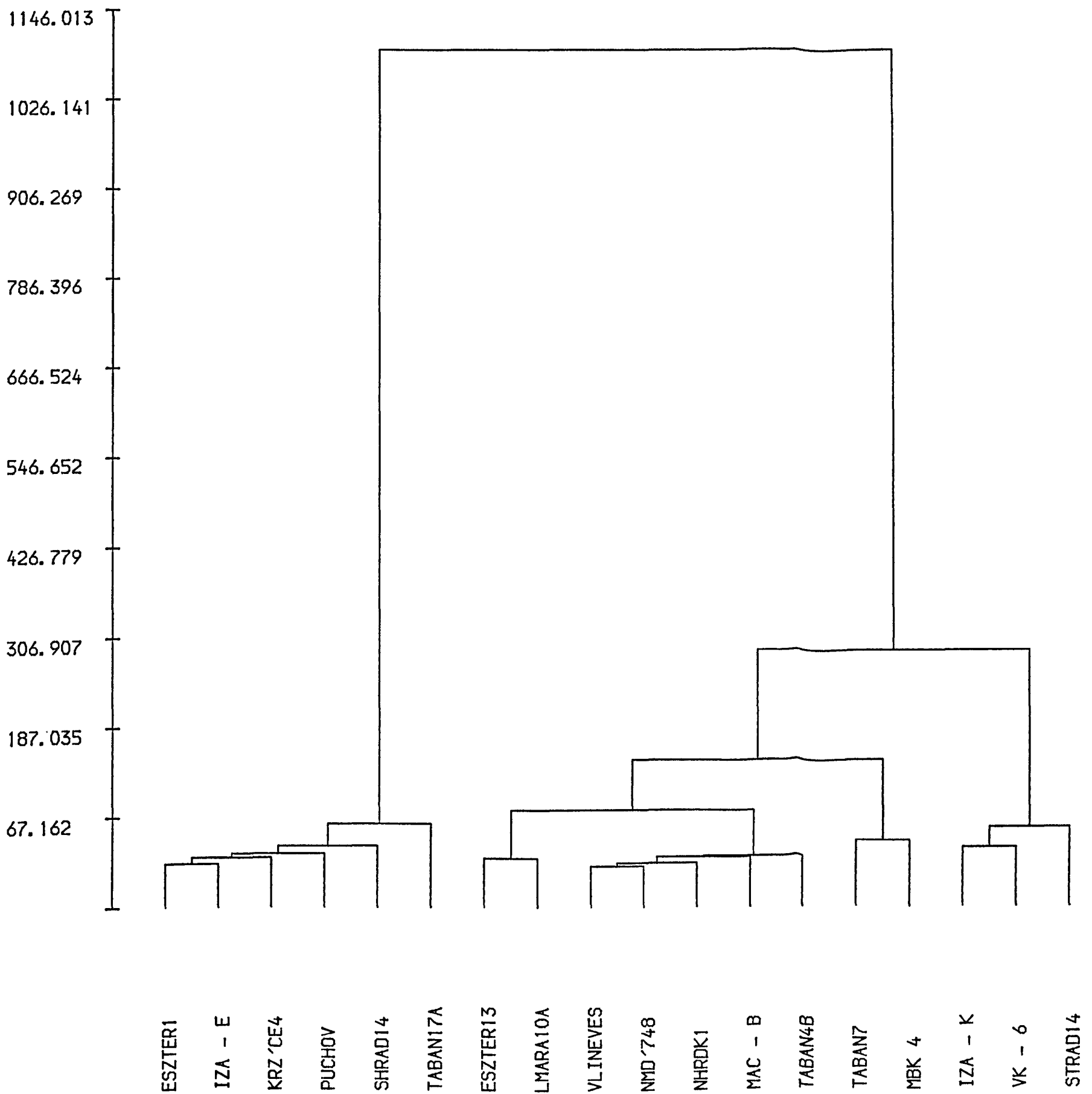


Figure 5.32

Figure 5.33

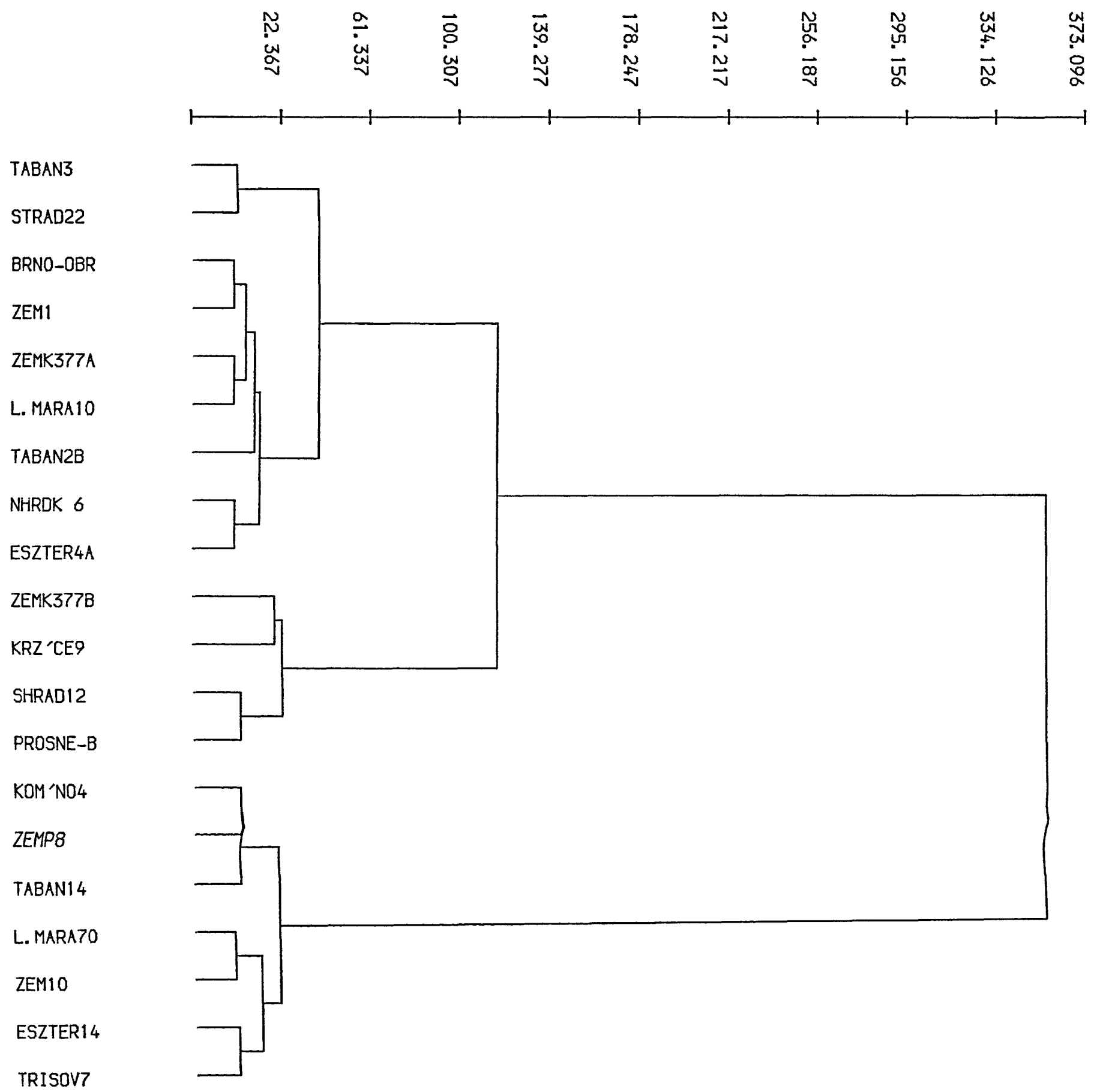


Figure 5.34

NEV 'CE26  
NHRDK3  
SHRAD8  
TRISOV9  
NEV 'CE27  
STRAD5  
STRAD25  
IZA - J  
SHRAD11  
VIK 'TICE  
SHRAD3  
STRAD17  
BEKMEG12  
DIVINKA  
ZEM5  
STRAD23  
STRAD3  
TRISOV5  
NMD293  
KVA - B  
STRAD20  
POLEPY  
ZAVIST6  
PL 'ZOWA  
LAZISTE3  
SHRAD8  
SHRAD7  
SHRAD15  
V. K. 4  
SHRAD17  
SHRAD9

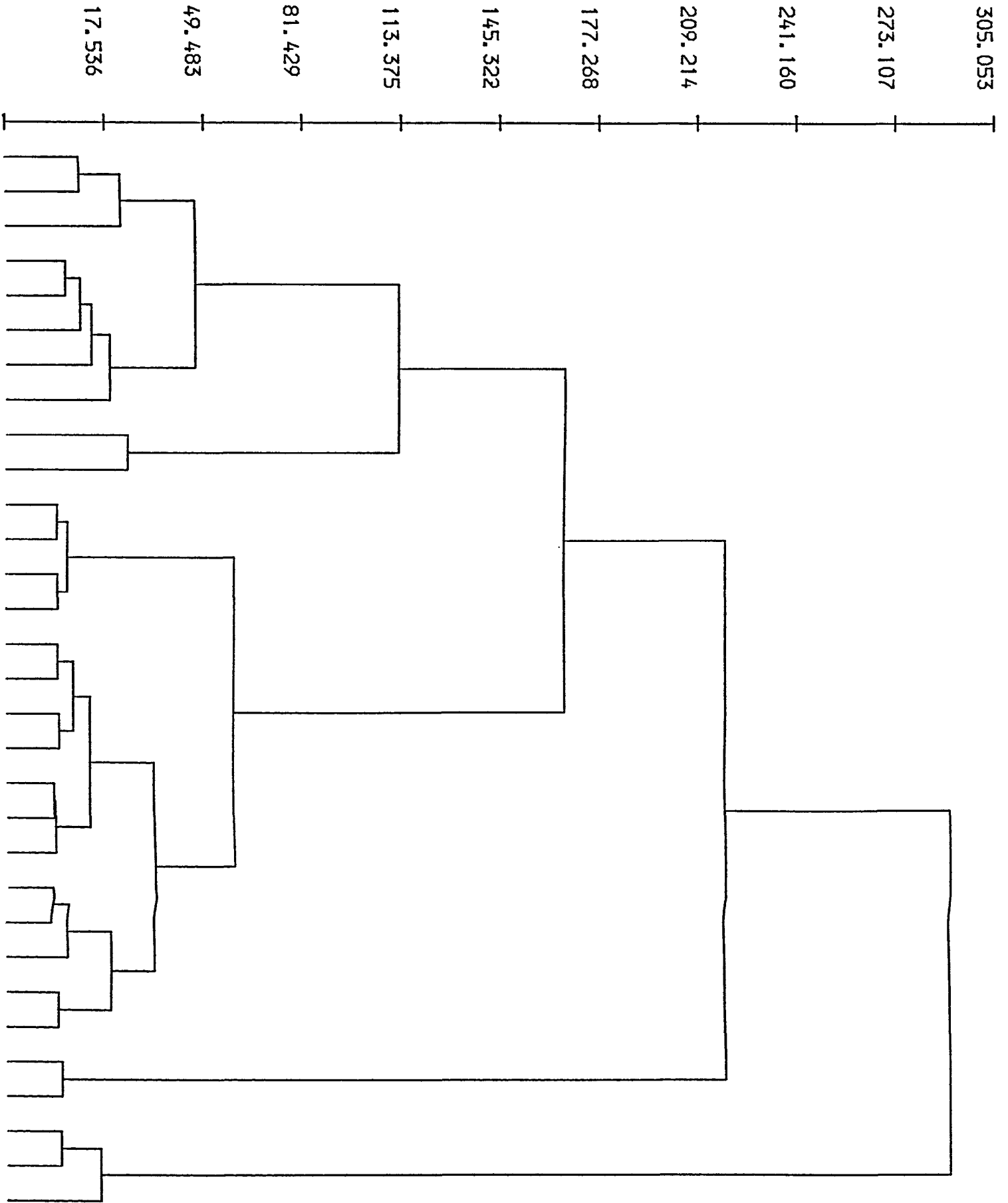
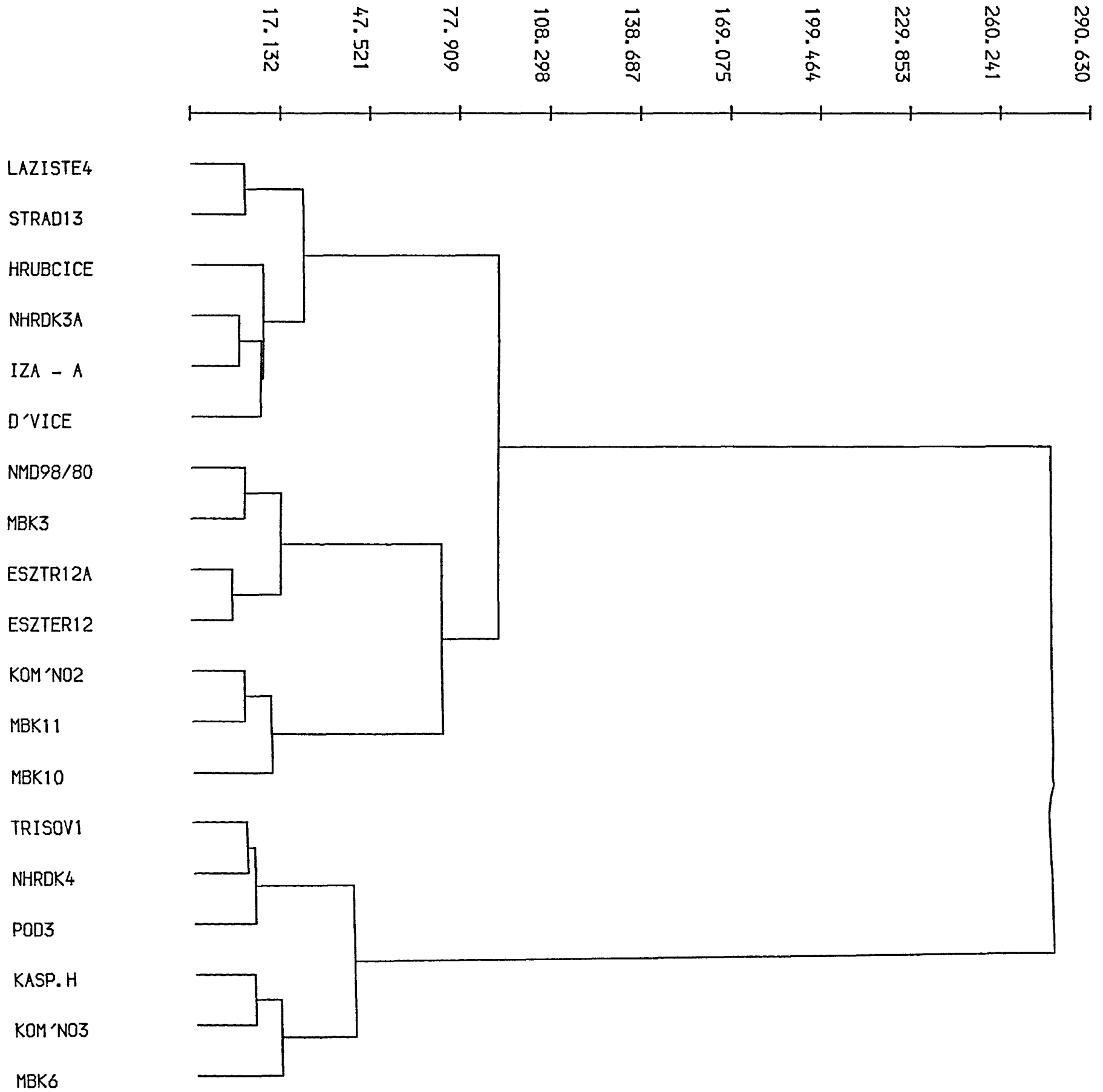


Figure 5.35





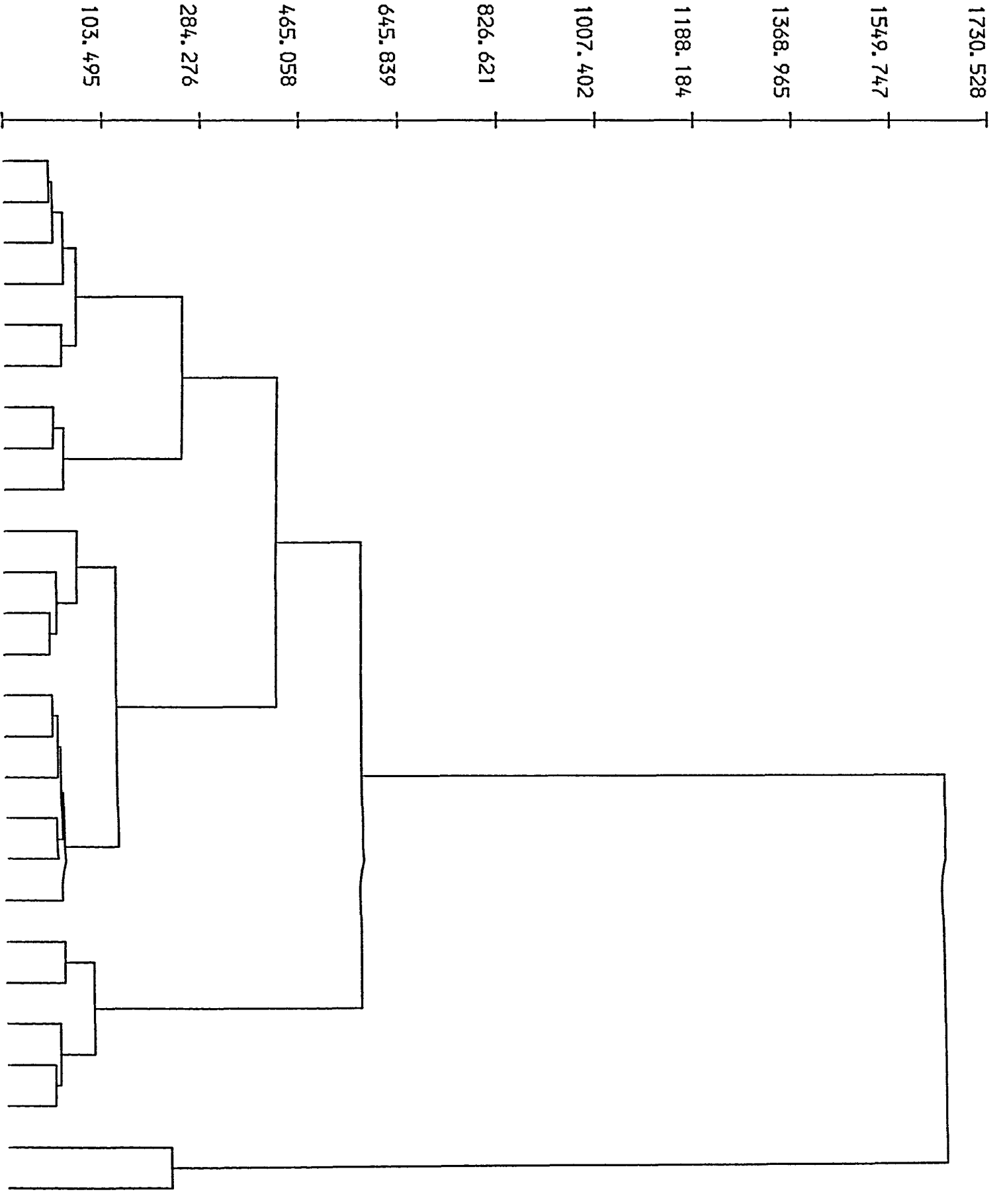


Figure 5.36

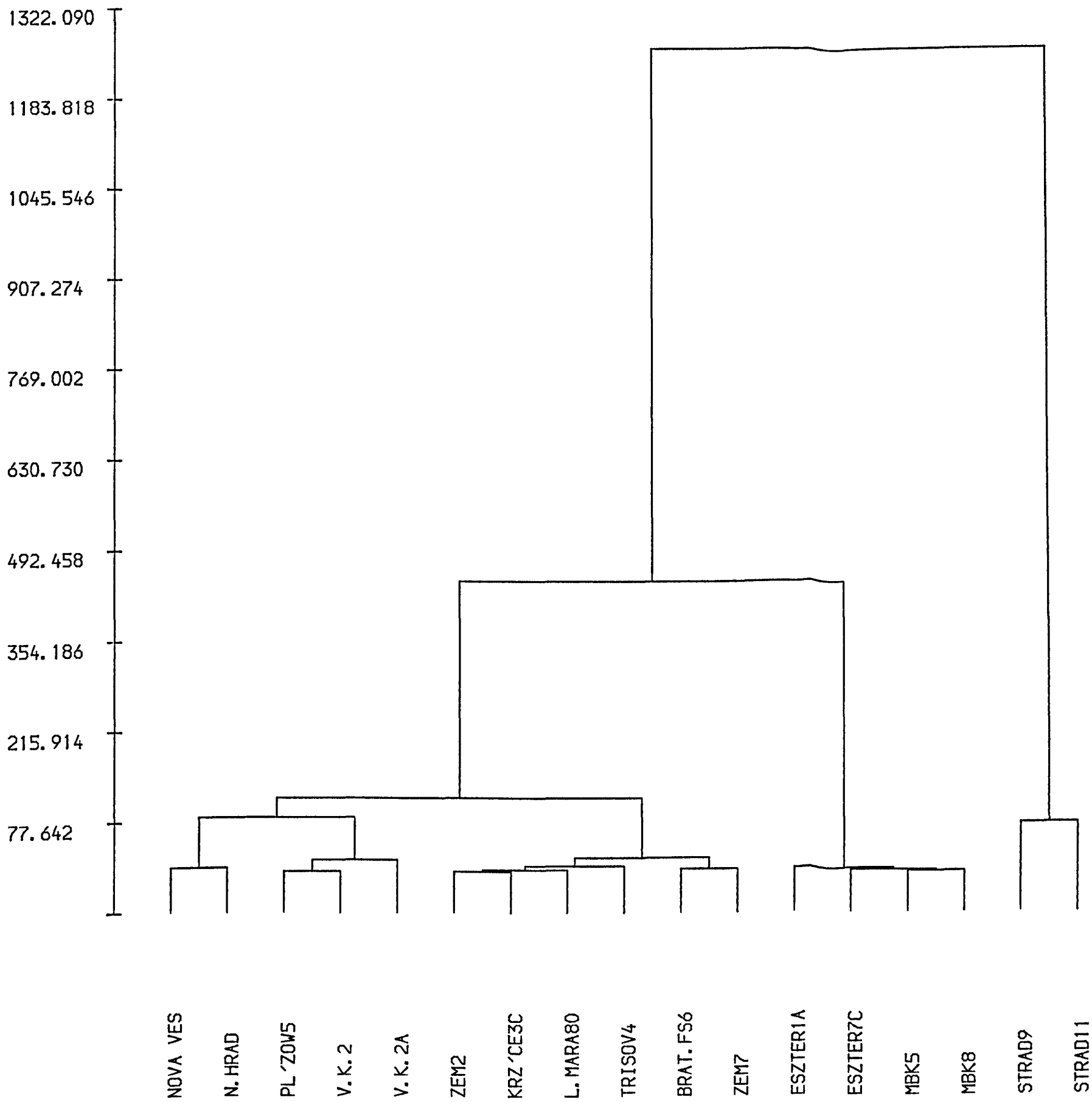
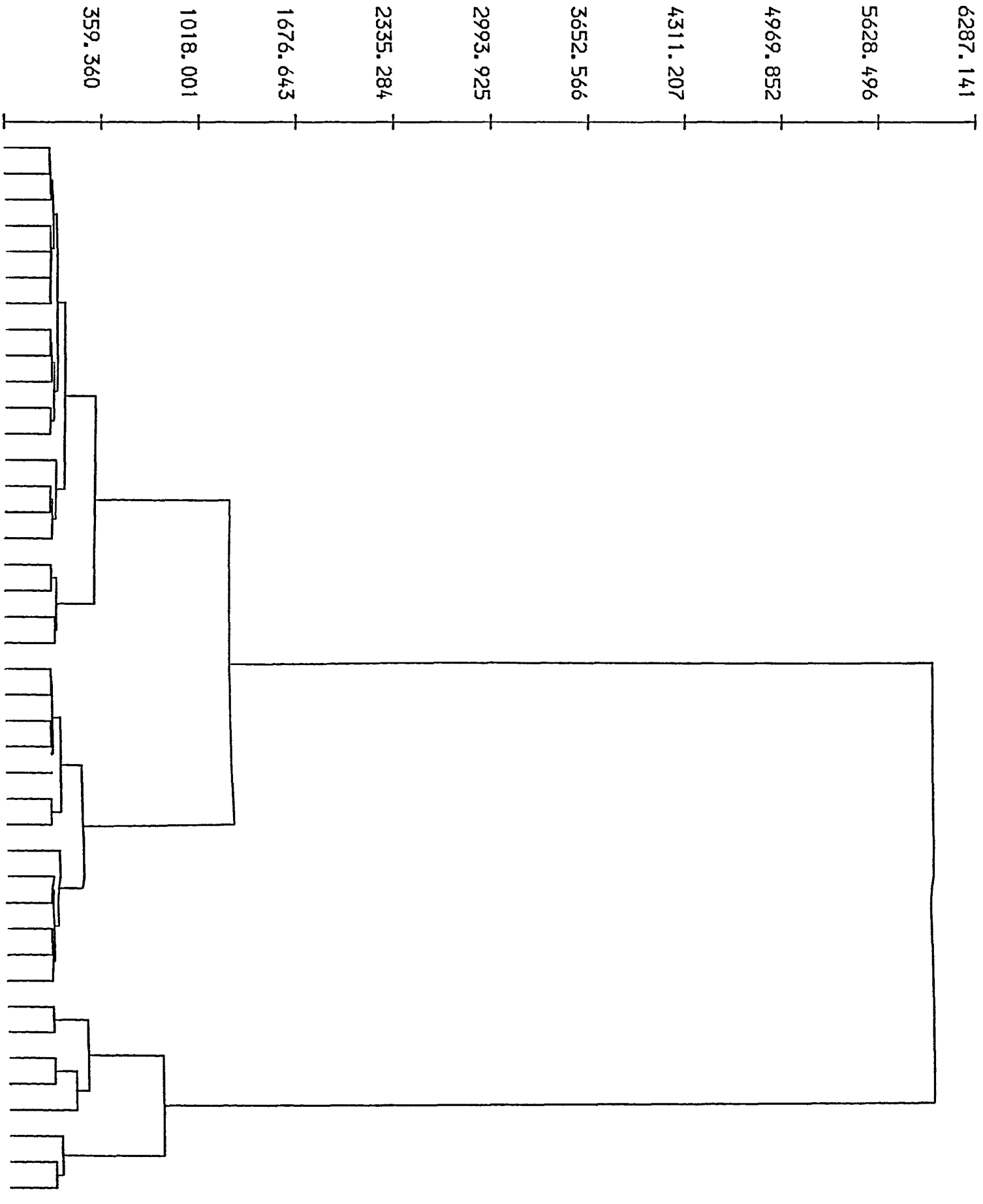
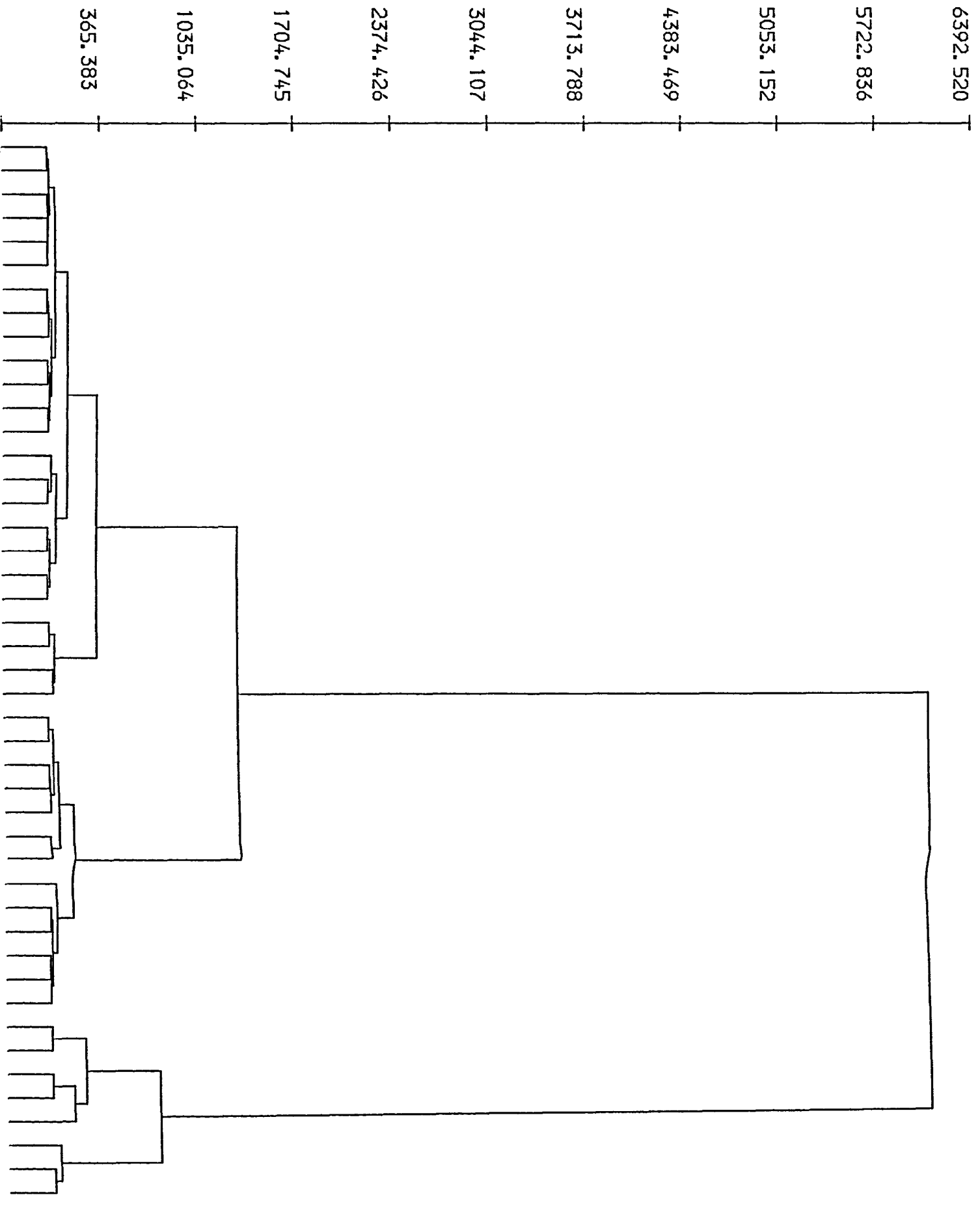


Figure 5.37



NOVA VES  
 VLINEVES  
 STRAD25  
 STRAD23  
 STRAD3  
 STRAD20  
 LOVOS3  
 POLEPY  
 ZAVIST6  
 STRAD8  
 STRAD13  
 STRAD22  
 ZAVIST4  
 STRAD19  
 STRAD17  
 STRAD1  
 ZAVIST7  
 STRAD5  
 ZAVIST3  
 VIK'TICE  
 ZAVIST1  
 STRAD10  
 STRAD12  
 STRAD5A  
 CERTRUKA  
 STRAD7  
 STRAD15  
 ZAVIST2  
 ZAVIST5  
 LOVOS4  
 STRAD2  
 LOVOS1  
 LOVOS2  
 STRAD14  
 STRAD11  
 STRAD18  
 STRAD16  
 STRAD24  
 STRAD21  
 STRAD9  
 STRAD4

Figure 5.38

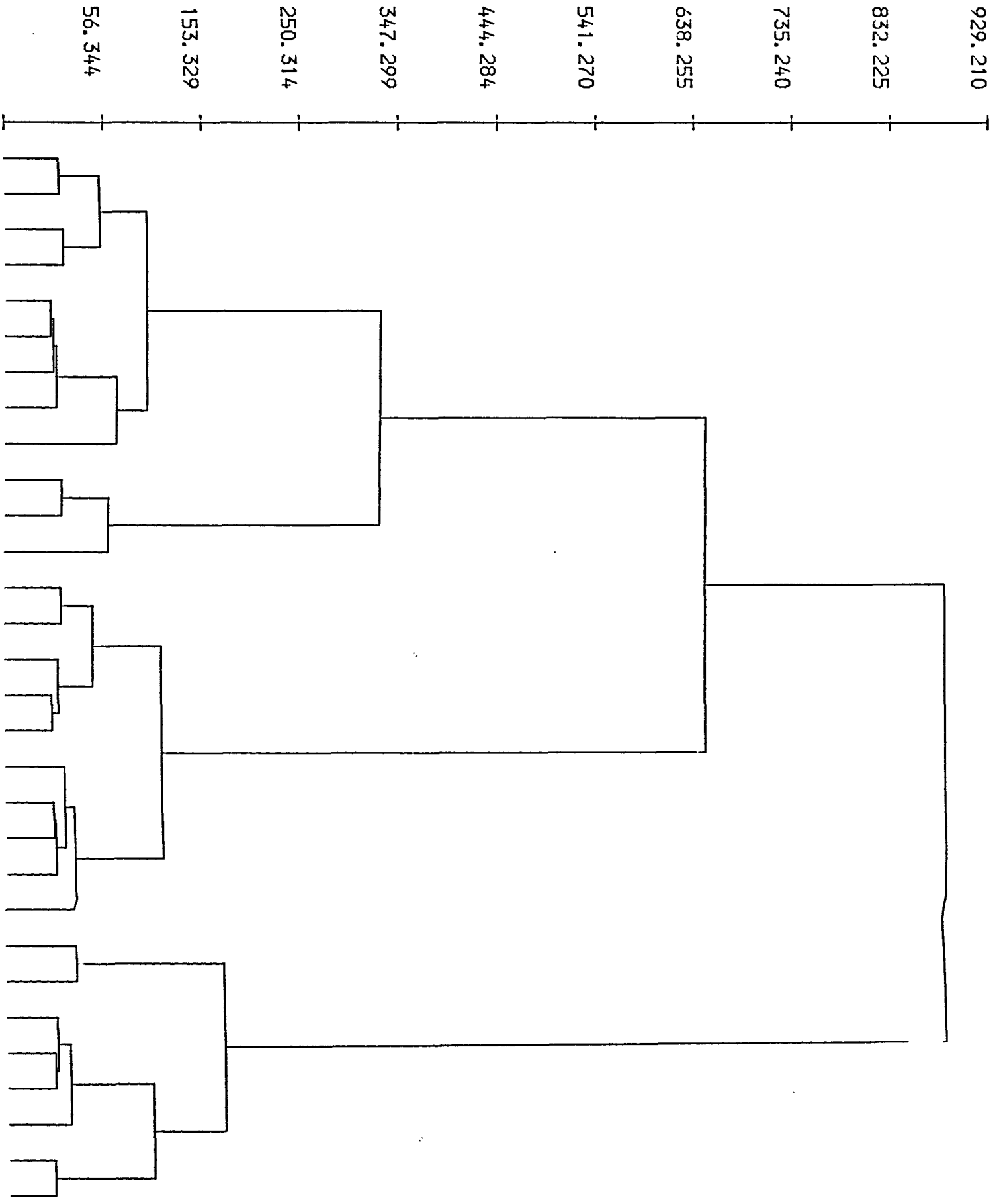


NOVA VES  
 VL INEVES  
 STRAD23  
 STRAD3  
 STRAD20  
 LOVOS3  
 POLEPY  
 ZAVIST6  
 STRAD8  
 STRAD13  
 STRAD22  
 STRAD25  
 TRISOV13  
 ZAVIST4  
 STRAD1  
 CESKELH2  
 STRAD10  
 CESKELH1  
 STRAD19  
 STRAD17  
 ZAVIST7  
 STRAD5  
 ZAVIST3  
 VIK'TICE  
 ZAVIST1  
 CESKELH3  
 STRAD12  
 STRAD5A  
 CERTRUKA  
 STRAD7  
 STRAD15  
 ZAVIST2  
 ZAVIST5  
 LOVOS4  
 STRAD2  
 LOVOS1  
 LOVOS2  
 STRAD14  
 STRAD11  
 STRAD18  
 STRAD16  
 STRAD24  
 STRAD21  
 STRAD9  
 STRAD4

Figure 5.39

Figure 5.40

SHRAD F  
BRN-HH  
SHRAD8  
KLE78/59  
SHRAD18  
HOLUBICE  
KLE66-59  
SHRAD15  
SHRAD11  
SHRAD13  
BORITOV  
SHRAD4  
SHRAD14  
D'VICE  
SHRAD6  
HRUBCICE  
O'VICE  
SHRAD7  
SHRAD3  
BRNO-OBR  
SHRAD2  
SHRAD1  
SHRAD19  
MILOVICE  
SHRAD17  
SHRAD12  
SHRAD9  
SHRAD10  
KR'VICE  
ZAVIST4



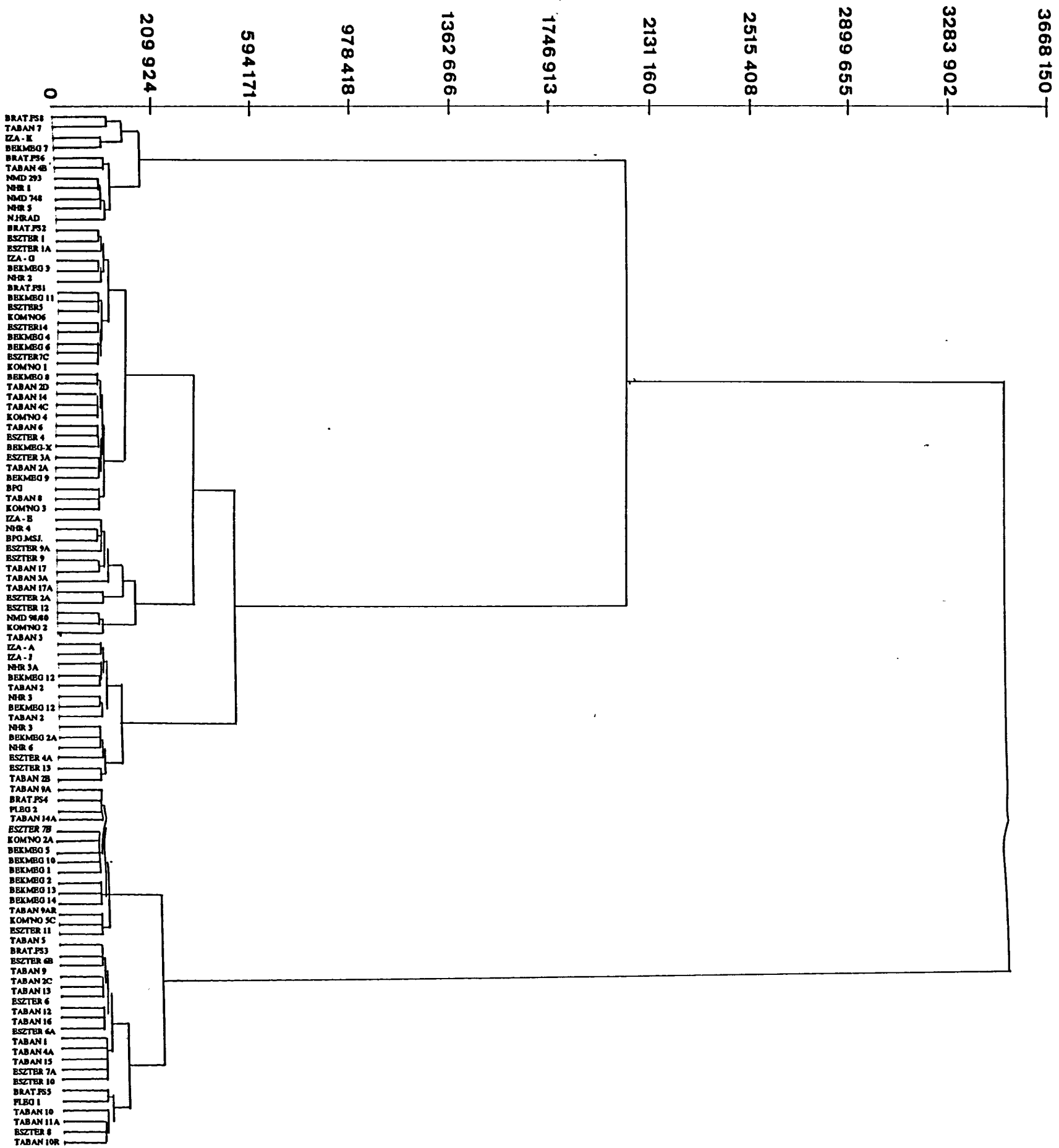


Figure 5.41

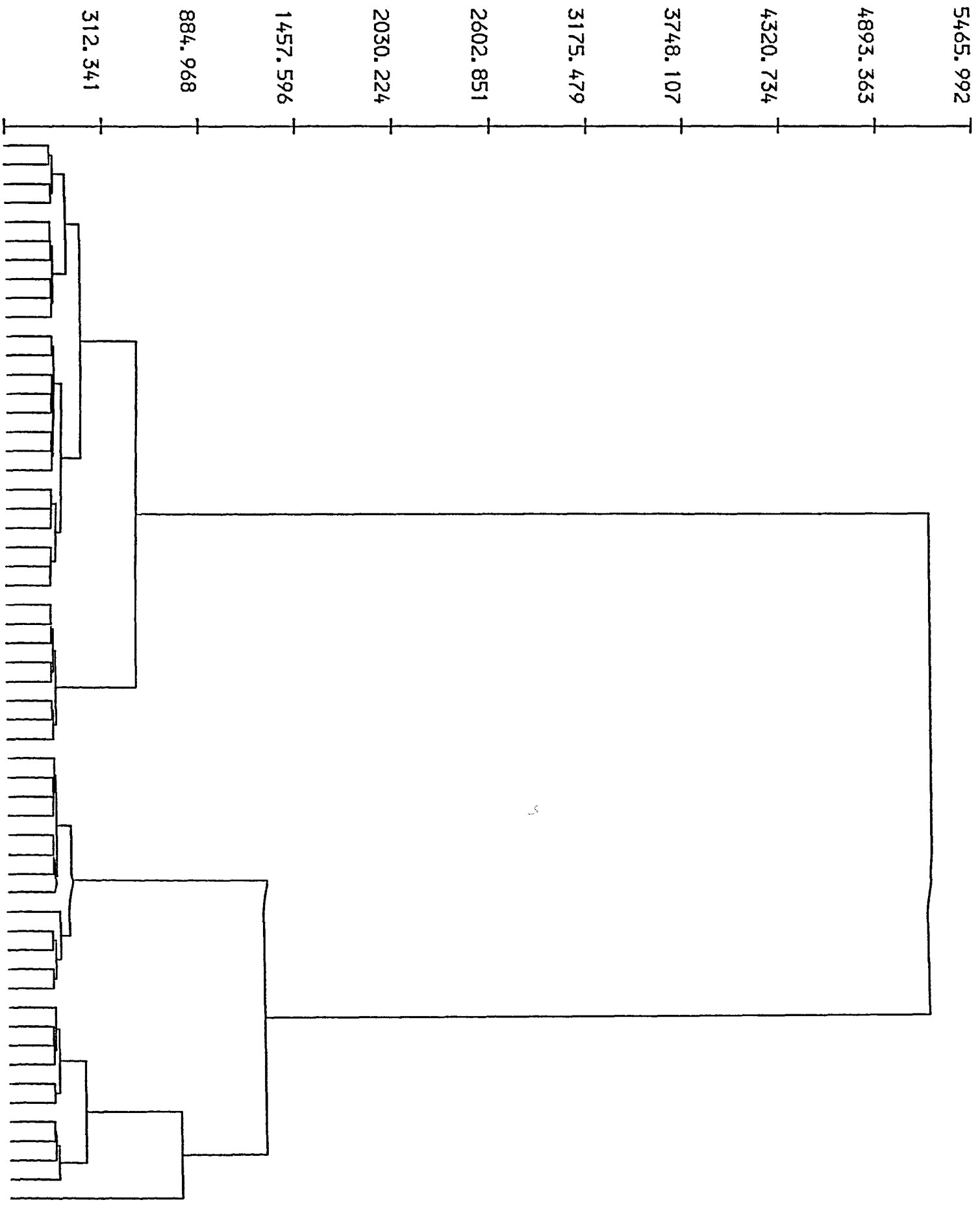


Figure 5.43

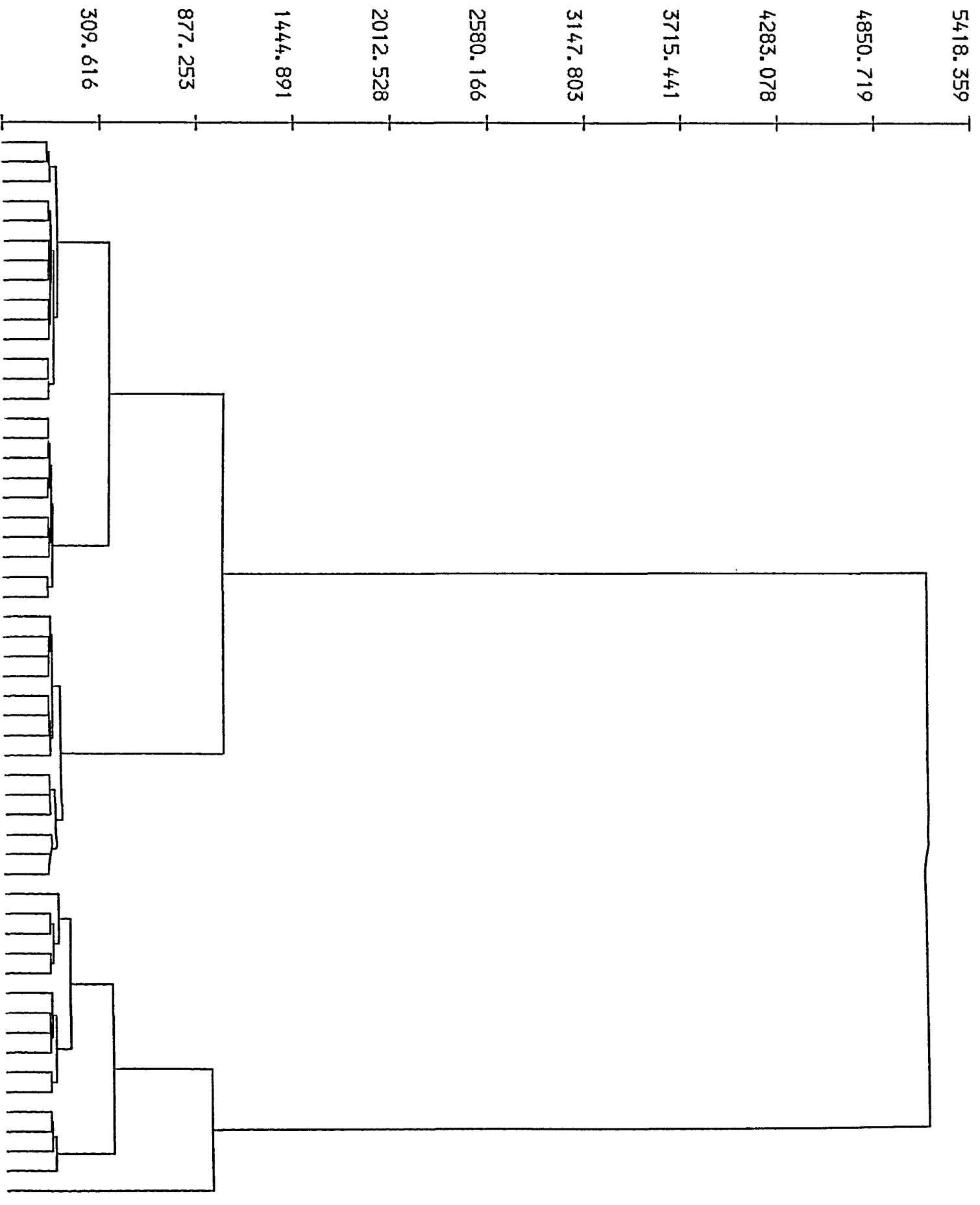


Figure 5.44



**TEXT BOUND INTO**

**THE SPINE**

Figure 5.45

MOGILA 1A  
KRZ'CE 4  
L.MARA 50  
POD 3  
POD  
POD 2  
POD 3A  
PLZOW 8  
POD 5  
MOGILA 5  
TYNIEC1  
MAK6967  
TURB8171  
KRZ'CE 5  
KRZ'CE 6  
TURB8164  
ZEMK192  
KRZ'CE 1  
KRZ'CE10  
PLZOW 4  
POD 1A  
V.K.1  
BOLEN  
WIEL'KA  
TURB8187  
MOGILA2A  
KRZ'CE 8R  
MOGILA 4  
PLESK 3  
MOGILA 8A  
MOGILA 10  
PLZOW D  
ZEM 3  
KRZ'CE 2  
KRZ'CE 8  
KRZ'CE 2B  
POD 1  
BIEZANOW  
MOGILA 2  
ZEM 11  
MAC - C  
PLZOW 1  
KVA 1/72A  
L.MARA 70  
ZEM 9  
ZEM 10  
KRZ'CE 2A  
PLESK 5  
ZEM 8  
PUCHOV  
L.MARA 40  
KRZ'CE A  
V.K. 8  
ZEM 6  
V.K.7  
ZEM 4  
KRZ'CE 3  
KRZ'CE 3A  
KRZ'CE 7  
PLZOW 3  
WYCIAZE  
MOGILA 3  
PLZOW B  
PLZOW 7  
PLZOW 2A  
DIVINKA  
PLZOW A  
PLESK 1  
PLZOW 2  
PRZ-U/P  
L.MARA 10  
ZEMK377A  
ZEM 1  
L.MARA10A  
V.K.2A  
ZEMK 377B  
ZEM 5  
KRZ'CE 1X  
PRZ 2  
V.K. 2  
PLZOW 5  
KRZ'CE 9  
V.K. 1R  
TARG  
V.K.5  
MAC - A  
KVA - B  
L.MARA 20  
L.MARA 90  
L.MARA 30  
V.K.1A  
L.MARA 30A  
PLZOW 6  
KVA - C  
KRZ'CE 81  
TYNIEC 2  
MAC - B  
V.K. 3  
PROSNE B  
L.MARA 80  
KRZ'CE 3C  
ZEM 2  
ZEM 7  
L.MARA 60  
V.K. 6  
V.K. 4  
ZEMK 182  
L.MARA 91  
PROSNE

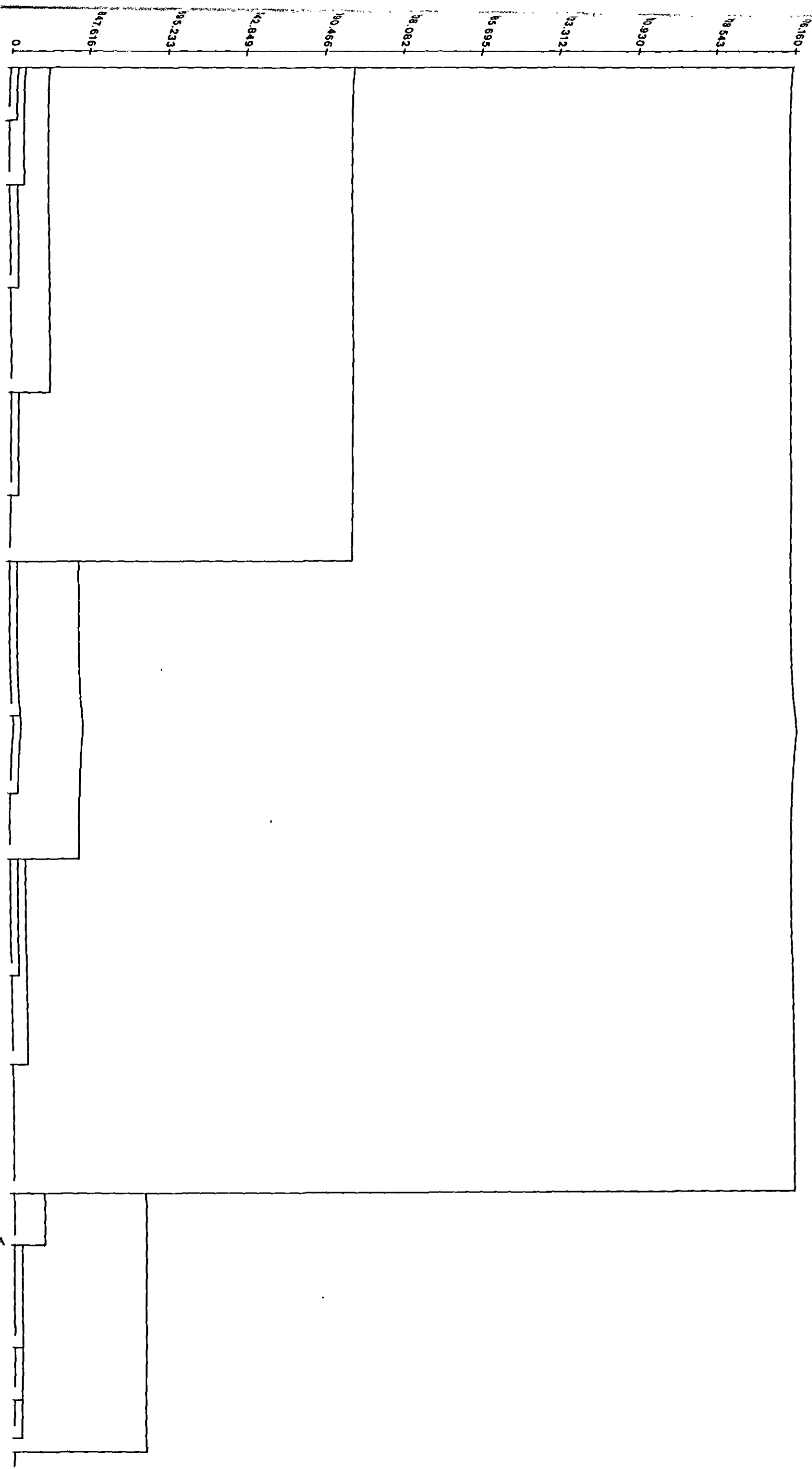


Figure 5.45

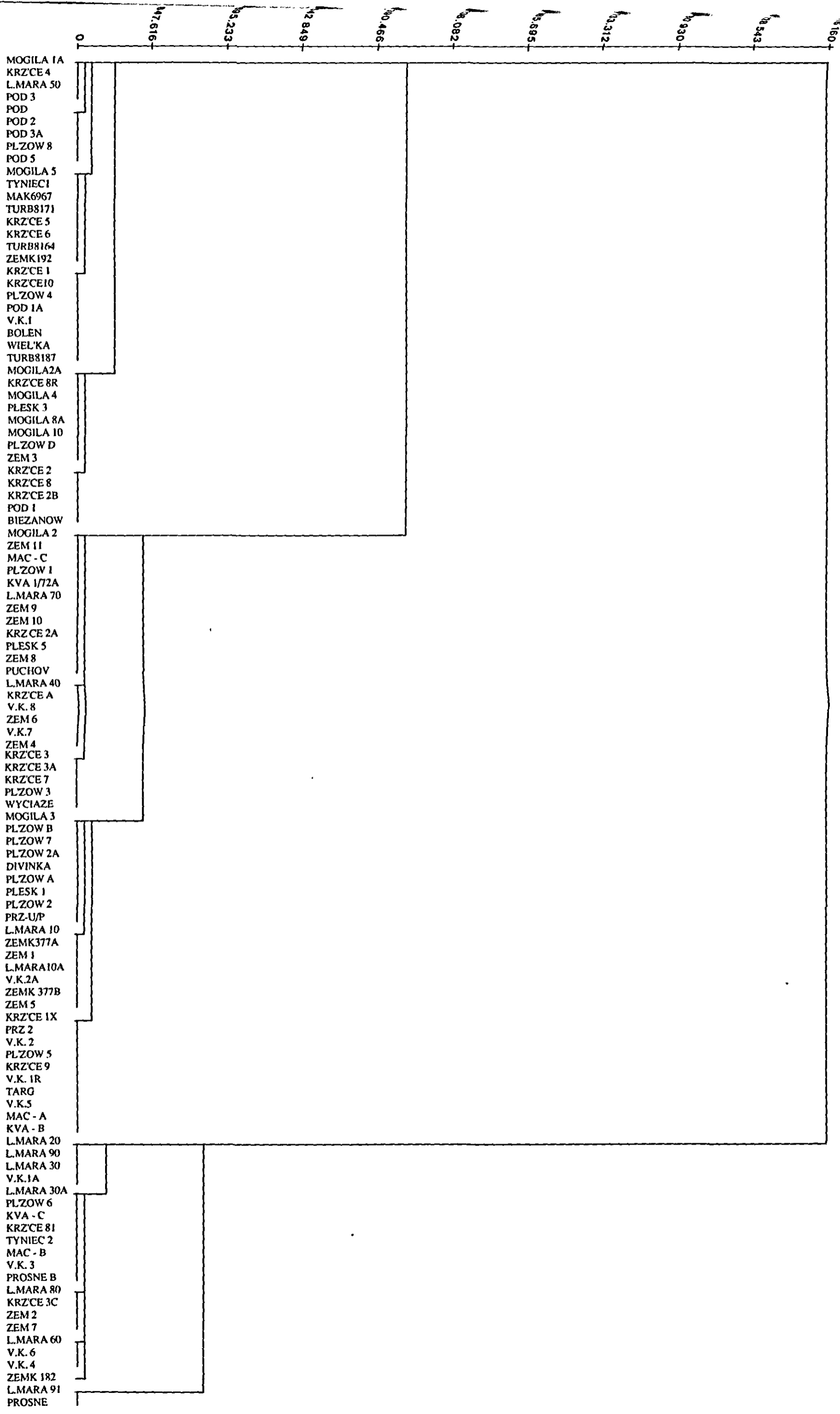
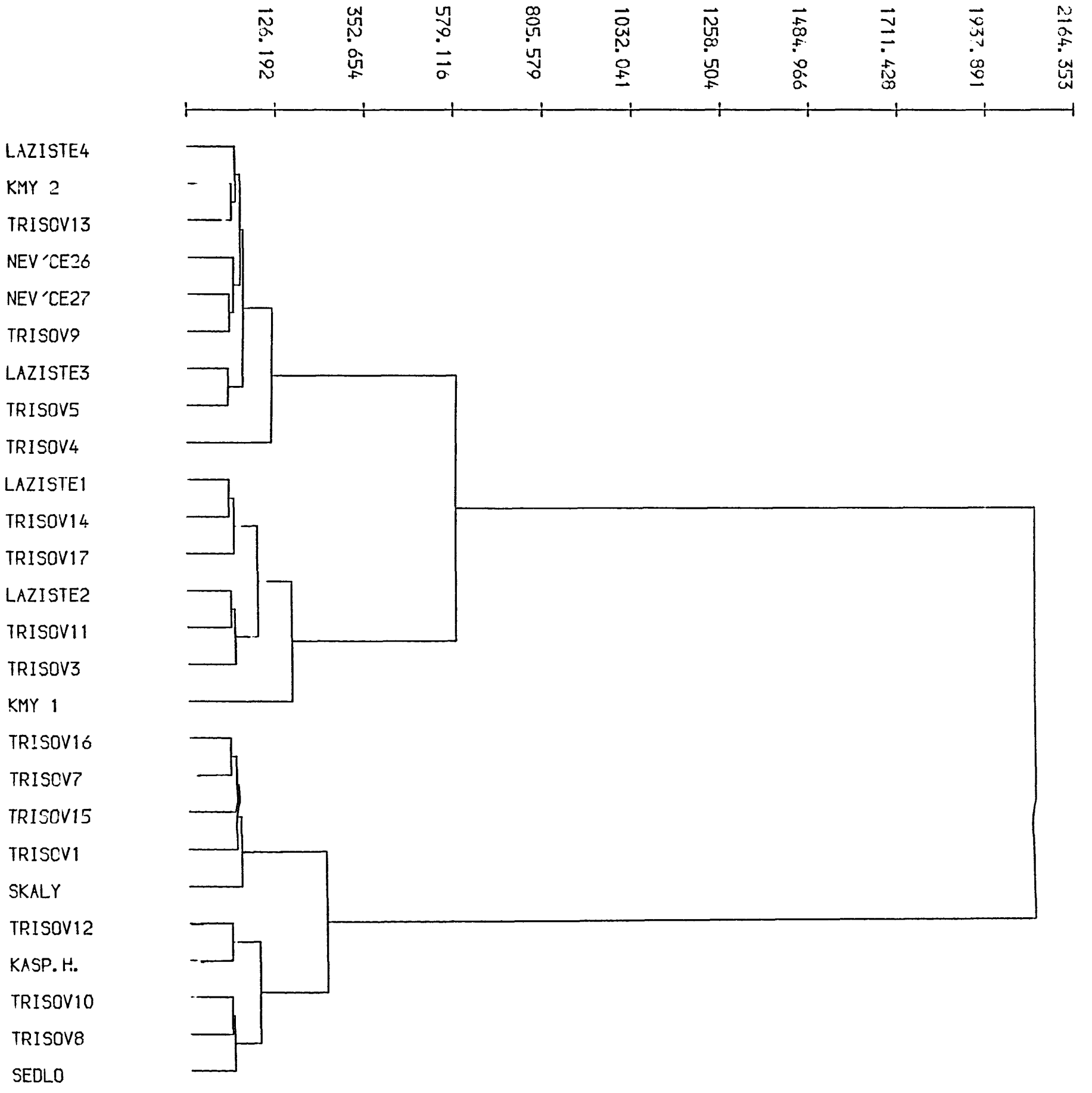


Figure 5.46



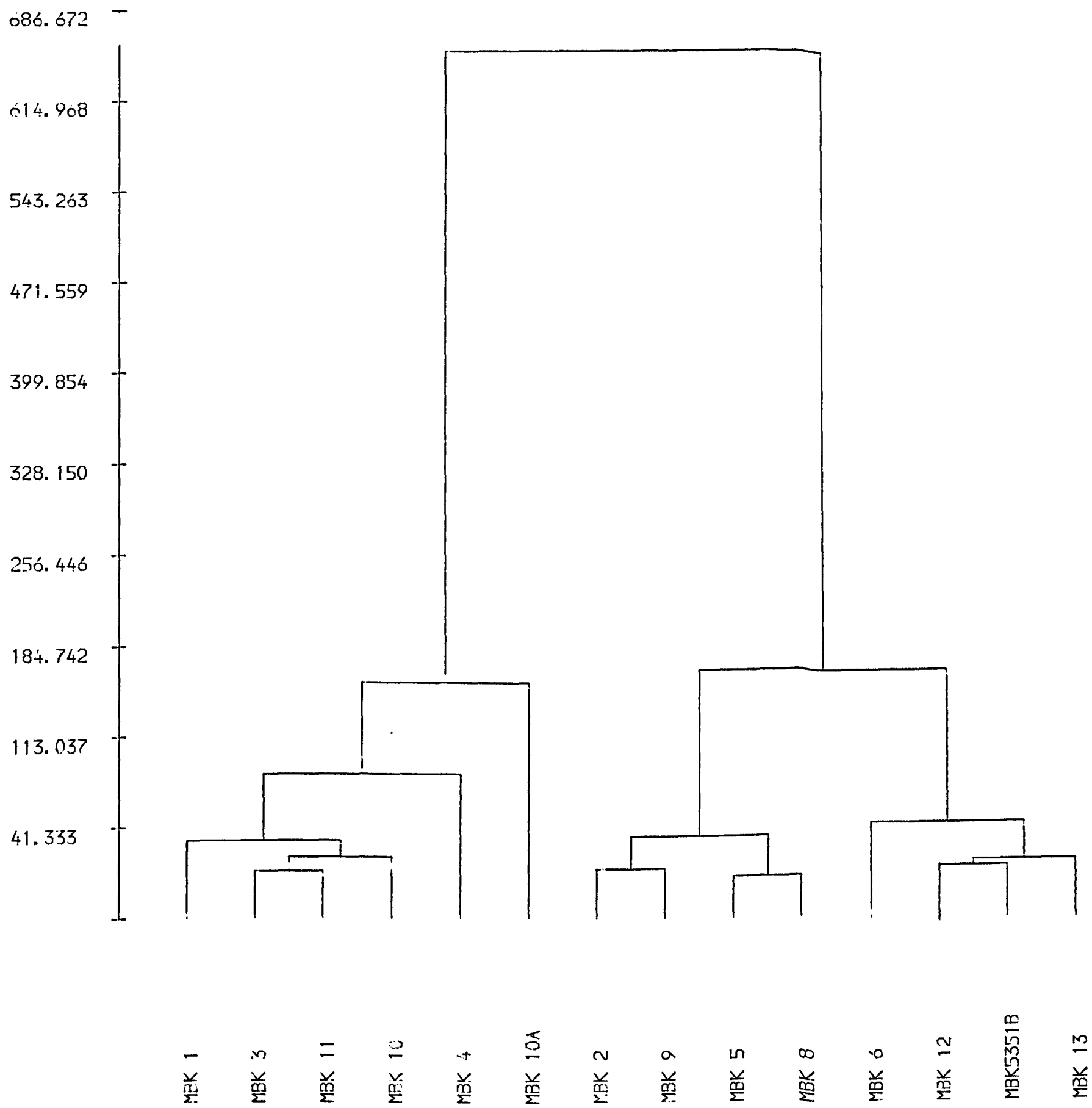


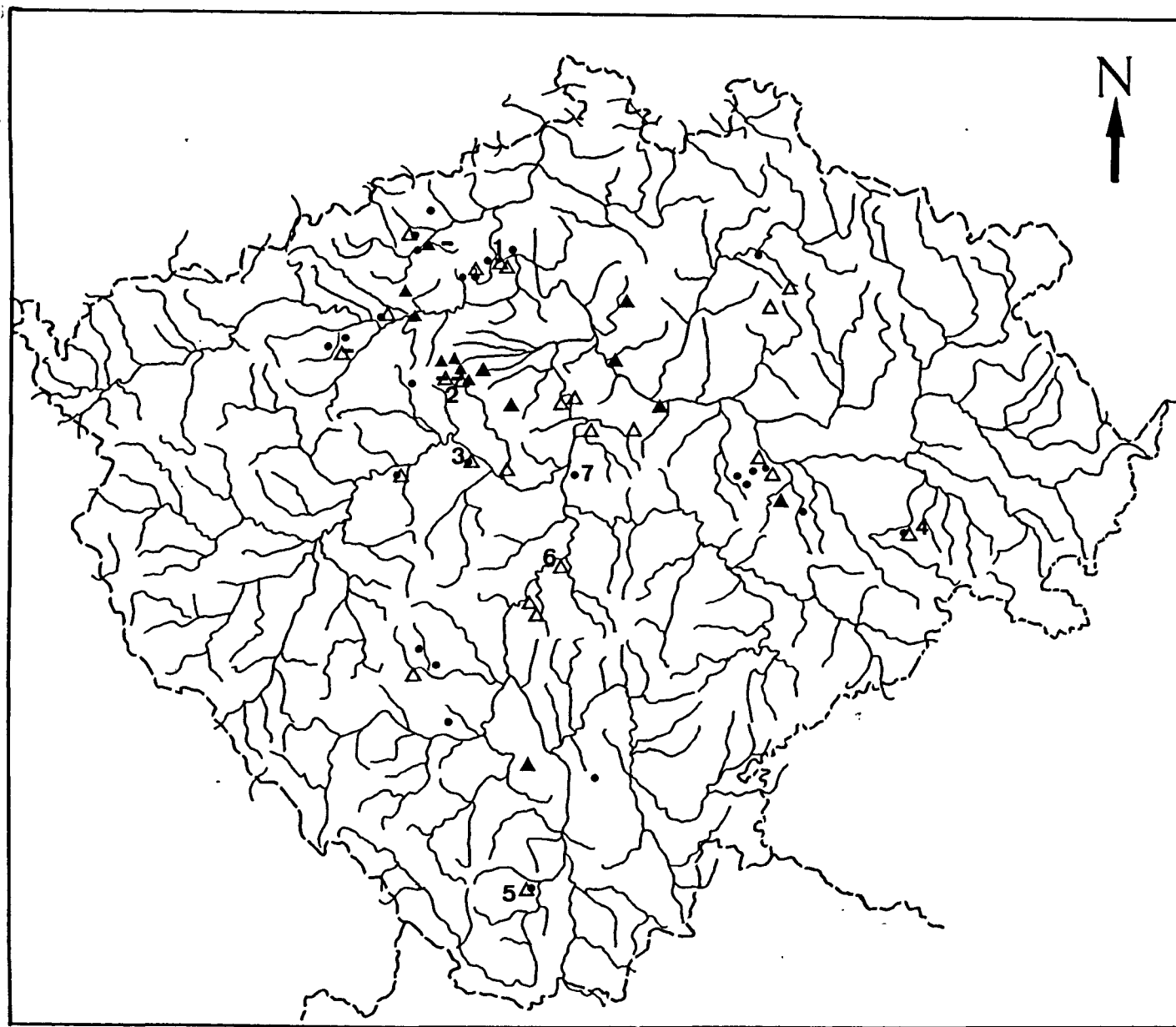
Figure 5.47

Figure 6.1

Glass bracelets and beads in Bohemia.  
(After Venclová 1990)

- Bracelet - La Tène C2 - D
- Bracelet - La Tène C1 - D
- ▲ Bracelet - La Tène C1 - C2
- △ Ring bead - La Tène C2 - D1

- 1 - Lhotka - Lovosice
- 2 - Mšecké Žehrovice
- 3 - Stradonice
- 4 - České Lhotice
- 5 - Třísov
- 6 - Hrazany
- 7 - Závist



**Top.**

**Plate 5.1**

**Esztergom:** Red wavy banded decoration.

Note the shape of the lower wavy band,  
suggesting application with a broad brush

**Bottom**

**Plate 5.2**

**Esztergom:** Upper sherd - Red wavy banded decoration

Lower sherd - Faded grey geometric decoration  
over white slip.

**Scale in centimetres**

**Photograph: Author**





Top

**Plate 5.3**

- Stradonice:
- 1) Wax resist decoration
  - 2) Rim of red and white striped bowl with incised wavy line decoration
  - 3) Rim of white bowl with incised wavy line decoration.
  - 4) Profiled bowl with incised wavy line decoration

Bottom

**Plate 5.4**

- Stradonice:
- 1) Red and white striped open bowl.
  - 2) Wax resist decoration
  - 3) Grey geometric decoration - double diamond grid
  - 4) Grey geometric decoration - double square grid

All scales in centimetres.

Photographs: Author.



Top

**Plate 5.5**

- Stradonice:
- 1) Red and white striped open bowl with incised wavy line decoration.
  - 2) Grey geometric decoration over white slip
  - 3) Body of open bowl showing abraded slip revealing lines of slip application
  - 4) Neck and upper body of red and white banded jar
  - 5) Red and white striped open bowl with incised wavy line decoration
  - 6) Body sherd with red and white striped decoration

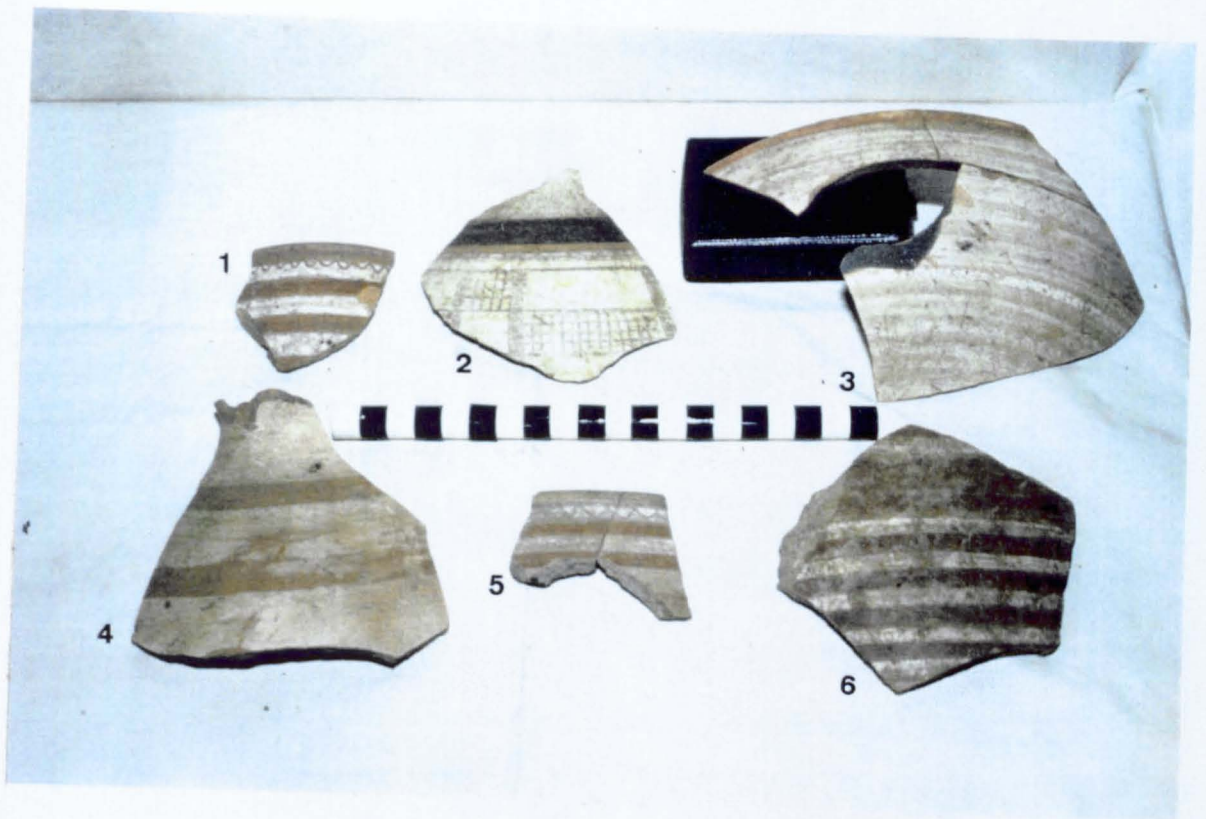
Bottom

**Plate 5.6**

- Various:
- 1) Kurimany - Red slipped bowl rim
  - 2) Kurimany - Red slipped bowl rim
  - 3) Kurimany - Red slipped body sherd
  - 4) Nevezice - Burnished jar rim - red slip visible at bottom
  - 5) Nevezice - Abraded body sherd showing traces of red slip
  - 6) Nevezice - Burnished body sherd with white slip
  - 7) Trísov - Red and white banded body sherd

Scale in centimetres

Photographs: Author



Top

**Plate 5.7**

Zemplín

- 1) Inturned rim bowl with abraded grey grid decoration
- 2) Chalice rim with red and white slip

Bottom

**Plate 5.8**

Tyniec - Klasterisko:

Chalice rimmed jar and other slip decorated sherds.

Scale in centimetres

Photographs: Author

(With acknowledgements to the monks of the abbey at Tyniec for Figure 5.8)



Top

**Plate 5.9**

Krzeslawice

- 1) Storage jar
- 2) Miniature storage jar

Top view showing ridged rim on both vessels and fracture along the coil line on the larger vessel

Bottom

**Plate 5.10**

Krzeslawice

- 1) Storage jar
- 2) Miniature storage jar

Side view

Scale in centimetres

Photographs: Author.





**Plate 5.11**

Stradonice: White slip decorated bowl showing  
lines of resistant slip created by  
overlapping brush strokes

Scale in centimetres

Photograph: Author

