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Worlds on a string: on beads and exchange in Merovingian Northern Gaul

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Fig. 2.4 Examples of beads from the cemetery Lent-Lentseveld made with various production techniques. A: drawn bead with lines parallel to the perforation; B: wound bead with concentric lines around the perforation; C: folded bead with visible seam; D: perforated bead with one irregular side; E: mosaic bead formed by various slices of mosaic glass; F: amber bead with cut and polished faces. Photo's: M.B. Langbroek.

Fig. 2.5 Examples of drawn beads made with the four different finishing techniques discussed in this chapter. Photo's: M.B. Langbroek.

Fig. 2.6 Plan of the sixth century cemetery Lent-Lentseveld. Graves with beads are marked per bead-phase. Map by J. Hendriks, Municipality of Nijmegen, edited by the author.

Fig. 2.7 Plan of the Merovingian cemetery Elst-'t Woud. Graves with beads are marked per bead-phase. Map by F. Theuws (after the original in Verwers/Van Tent 2015), edited by the author.

Fig. 2.8 Plan of the Merovingian cemetery Wijchen-Centrum. Graves with beads are marked per bead-phase. Map by S. Heeren/Hazenberg Archeologie, edited by the author.

Fig. 2.9 P1 strings of beads from the cemetery Lent-Lentseveld. Grave numbers are indicated. Photographs by A. Dekker.

Fig. 2.10 P1 strings of beads from the cemetery Wijchen-Centrum. Grave numbers are indicated. Photographs by M. Langbroek (29, 52, 235) and R. Mols (219).

Fig. 2.11 Impression of beads (a selection, not all beads) occurring in P1 strings from the cemetery Elst-'t Woud. Grave numbers are indicated. Photographs by M. Langbroek.

Fig. 2.12 Find locations of Indo-Pacific Tradewind Beads, typical for Bead Period P1 in northern Gaul. Source: www.earlymedievaleurope.org (Online Database ERC Rural Riches).

Fig. 2.13 Find locations of 6th-century confetti beads from Egypt, typical for Bead Period P1 in northern Gaul. Source: www.earlymedievaleurope.org (Online Database ERC Rural Riches).

Fig. 2.14 Find locations of black annular beads adorned with an opaque white wave decoration, typical for Bead Period P1 in northern Gaul. Source: www.earlymedievaleurope.org (Online Database ERC Rural Riches).

Fig. 2.15 Find locations of black annular beads with a diameter over 6 millimetres, typical for Bead Period P1 in northern Gaul. Source: www.earlymedievaleurope.org (Online Database ERC Rural Riches).

Fig. 2.16 Find locations of large spindlewhorl beads made of translucent glass and decorated with an opaque white combed spiral decoration, thought to have been produced in Cologne, typical for Bead Period P1 in northern Gaul. Source: www.earlymedievaleurope.org (Online Database ERC Rural Riches).

Fig. 2.17 Impression of P1-P2 beads (a selection, not all beads) from Elst-'t Woud grave 208. Photographs by M. Langbroek.

Fig. 2.18 P1-P2 strings of beads from the cemetery Lent-Lentseveld. Grave numbers are indicated. Photographs by A. Dekker.

Fig. 2.19 Fragile facetted red and orange opaque glass 'mystery beads' from Lent-Lentseveld grave 40. Photographs by M. Langbroek.

Fig. 2.20. This string of 121 beads of glass, amber and faience was found around the neck of a girl of 5 or 6 years old in grave 40 from the sixth century cemetery of Lent-Lentseveld. The beads in this string were made with varying techniques and have origins in Europe, the Baltic, the Near East, Egypt, the Middle East and India. Photos by: A. Dekker and M. Langbroek. Design by: F. Ruys, Vizualism, in cooperation with J. Hendriks, Gemeente Nijmegen, and Provincie Gelderland.

Fig. 2.21 Typical P2 strings of beads from Oudoumont, Belgium, grave 171. Photo: Pion 2014.

Fig. 2.22 Impression of beads (a selection, not all beads) occurring in P2 strings from the cemetery Elst-'t Woud. Grave numbers are indicated. Photographs by M. Langbroek.

Fig. 2.23 All P2 beads from Wijchen-Centrum Grave 228. Photographs by M. Langbroek.

Fig. 2.24 P2 strings of beads from the cemetery Lent-Lentseveld. Grave numbers are indicated. Photographs by A. Dekker.

Fig. 2.25 Find locations of mosaic or millefiori beads, thought to have been produced in Egypt, typical for Bead Period P2 in northern Gaul. Source: www.earlymedievaleurope.org (Online Database ERC Rural Riches).

Fig. 2.26 Find locations of segmented metalfoil beads, thought to have been produced in Egypt, typical for Bead Periods P1-P3 in northern Gaul. Source: www.earlymedievaleurope.org (Online Database ERC Rural Riches).

Fig. 2.27 Find locations of reticella beads (or beads decorated with very fine polychrome twists), thought to have been produced in the eastern Mediterranean, typical for Bead Period P2 in northern Gaul. Source: www.earlymedievaleurope.org (Online Database ERC Rural Riches).

Fig. 2.28 Find locations of yellow opaque pentagonal beads, for which production evidence was excavated in Maastricht, typical for Bead Period P2 in northern Gaul. Source: www.earlymedievaleurope.org (Online Database ERC Rural Riches).

Fig. 2.29 P2-P3 strings of beads from the cemetery Wijchen-Centrum. Grave numbers are indicated. Photographs by M. Langbroek (65, 127, 253) and R. Mols (171).

Fig. 2.30 P2-P3 string of beads from grave 51 of the cemetery Lent-Lentseveld. Photograph by A. Dekker.

Fig. 2.31 Impression of beads (a selection, not all beads) occurring in P2-P3 strings from the cemetery Elst-'t Woud. Grave numbers are indicated. Photographs by M. Langbroek.

Fig. 2.32 Typical P3 strings of beads from Oudoumont, Belgium, grave 305. Photo: Pion 2014.

Fig. 2.33 Impression of beads (a selection, not all beads) occurring in P3 strings from the cemetery Elst-'t Woud. Grave numbers are indicated. Photographs by M. Langbroek.

Fig. 2.34 P3 strings of beads from the cemetery Wijchen-Centrum. Grave numbers are indicated. Photographs by M. Langbroek.

Fig. 2.35 Find locations of white opaque biconical beads, typical for Bead Period P3 in northern Gaul. Source: www.earlymedievaleurope.org (Online Database ERC Rural Riches).

Fig. 2.37 Impression of beads occurring in P3-P4 strings from the cemetery Elst-'t Woud. Grave numbers are indicated. Photographs by M. Langbroek.

Fig. 2.36 P3-P4 strings of beads from the cemetery Wijchen-Centrum. Grave numbers are indicated. Photographs by M. Langbroek (98, 106) and R. Mols (34).

Fig. 2.38 Typical P4 strings of beads from Bossut-Gottechain, Belgium, grave 434. Photo by L. Baty © SPW---Dpat, taken from Pion 2014.

Fig. 2.39 P4 strings of beads from the cemetery Wijchen-Centrum. Grave numbers are indicated. Photographs by M. Langbroek (149, 92, 239) and R. Mols (5, 156).

Fig. 2.40 Impression of beads occurring in P4 strings from the cemetery Elst-'t Woud. Grave numbers are indicated. Photographs by M. Langbroek.

Fig. 2.41 Find locations of amethyst beads, thought to be typical for the seventh century, in northern Gaul. Source: www.earlymedievaleurope.org (Online Database ERC Rural Riches).

Fig. 2.42 Average amount of beads per grave per bead-phase.

Fig. 2.43 Percentage of monochrome versus polychrome beads per bead-phase

Fig. 2.44 Ratio of bead-techniques per bead-phase.

Fig. 2.45 Percentage of beads made of opaque or translucent glass per grave per bead-phase.

Fig. 2.46 Percentage of materials beads were made of per bead-phase.

Fig. 2.47 Provenance of beads per bead-phase.

Fig. 2.48 The bead set from Mainz-Hechtsheim grave 92. After Koch 2011, 476.

Fig. 2.49 Beads from Mainz-Hechtsheim grave 246. After Koch 2011, 46.

Fig. 2.50 Beads from Mainz-Hechtsheim grave 199. After Koch 2011, 47.

Fig. 2.51 Beads from Globasnitz grave 172. Photograph by M. Pollak.

Fig. 2.52 Beads from Globasnitz grave 263. Photograph by M. Pollak.

Fig. 2.53 Beads from Buckland grave 20. Image after Evison 1987, 283.

Fig. 2.54 Beads from Buckland grave 92. Image after Evison 1987, 313.

Fig. 2.56 Beads from Buckland grave 59. Image after Evison 1987, 392.

Fig. 2.57 Beads from Buckland grave 1. Image after Evison 1987, 276.

Fig. 2.55 Beads from a grave in the Merovingian cemetery of Oosterdalfsen. Photograph: ADC Archeoprojecten.

Fig. 2.58 Monochrome bead-types from Buckland and the colours these appear in. Image after Evison 1987, 58 and 391.

Fig. 2.59 Polychrome bead-types from Buckland. Image after Evison 1987, 64 and 391-392.

Fig. 2.60 Bead-types found in both Campo-Marchione ('C') and one of the cemeteries in this study: Lent-Lentseveld (L), Elst-'t Woud (E) and Wijchen-Centrum (W). Photographs by M. Langbroek and C. Boschetti.

Fig. 2.61 Bead phases from Merovingian bead typologies from Germany and England compared to Pion's bead phases from Belgium. Green: beads from Pion's phase P1. Orange: beads from Pion's phase P2. Red: beads from Pion's phase P3. Yellow: beads from Pion's phase P4. Blue: beads from Pion's phase P5. Pink: beads that do not occur in Pion's typology, but do occur in the latest phases of other typologies. No colour: no parallels found in Pion's typology. Some phases have multiple colours, and contain beads from two or more of Pion's bead phases. Based on Pion 2014; Koch 1977; Sasse & Theune 1997; Siegmund 1998; Müssemeier *et al.* 2003; Koch 2001; Stauch 2004; Brugmann 2004; Hines & Bayliss 2013.

Fig. 2.62 Bead-types dating to the late fifth and early sixth century. Photographs by M. Langbroek.

Fig. 2.63 Bead-types dating to the middle third of the sixth century. Photographs by M. Langbroek.

Fig. 2.64 Bead-types dating to the late sixth century. Photographs by M. Langbroek.

Fig. 2.65 Bead-types dating to the early seventh century. Photographs by M. Langbroek and C. Pion.

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Fig. 3.1 Find locations of beads dating to the Merovingian period in northern Gaul. Source: www.earlymedievaleurope.org (Online Database ERC Rural Riches).

Fig. 3.2 This string of 121 beads of glass, amber and faience was found around the neck of a girl of 5 or 6 years old in grave 40 from the sixth century cemetery of Lent-Lentseveld. The beads in this string were made with varying techniques and have origins in Europe, the Baltic, the Near East, Egypt, the Middle East and India. Photos by: A. Dekker and M. Langbroek. Design by: F. Ruys, Vizualism, in cooperation with J. Hendriks, Gemeente Nijmegen, and Provincie Gelderland.

Fig. 3.3 The locations of the sites in this study. 1. Geldrop-Zesgehuchten; 2. Dommelen-Kerkakkers; 3. Veldhoven-Site K 4. Bergeijk-Fazantlaan; 5. Veldhoven-Oeienbosdijk; 6. Veldhoven-Meerveldhoven; 7. Uden-Schepersweg.

Fig. 3.4 Bead phases from Merovingian bead typologies from Germany and England compared to Pion's bead phases from Belgium. Green: beads from Pion's phase P1. Orange: beads from Pion's phase P2. Red: beads from Pion's phase P3. Yellow: beads from Pion's phase P4. Blue: beads from Pion's phase P5. Pink: beads that do not occur in Pion's typology, but do occur in the latest phases of other typologies, referred to as 'P6'. No colour: no parallels found in Pion's typology. Some phases have multiple colours, and contain beads from two or more of Pion's bead phases. Based on Pion 2014; Koch 1977; Sasse & Theune 1997; Siegmund 1998; Müssemeier *et al.* 2003; Koch 2001; Stauch 2004; Brugmann 2004; Hines & Bayliss 2013.

Fig. 3.5 Examples of beads from the cemetery Lent-Lentseveld made with various production techniques. A: drawn bead with lines parallel to the perforation; B: wound bead with concentric lines around the perforation; C: folded bead with visible seam; D: perforated bead with one irregular side; E: mosaic bead formed by various slices of mosaic glass; F: amber bead with cut and polished faces. Photo's: M.B. Langbroek.

Fig. 3.6 String of beads from Geldrop-Zesgehuchten grave 6B. Photo: A. Dekker.

Fig. 3.7 The string of beads excavated from Dommelen-Kerkakkers grave 2. Photo: A. Dekker.

Fig. 3.8 Field drawing of the beads in situ in Dommelen-Kerkakkers grave 2.

Fig. 3.9 Three different types of confetti beads from Dommelen-Kerkakkers dating to the late seventh century. Photo's: M. Langbroek.

Fig. 3.10 Mosaic beads from a late seventh century grave from Dommelen-Kerkakkers (left) and a mid-sixth century grave from Lent-Lentseveld (right). Photo's: M. Langbroek.

Fig. 3.11 Perforated bead from grave 2, Dommelen-Kerkakkers. Photo's: M. Langbroek

Fig. 3.12 The beads excavated from Dommelen-Kerkakkers grave 3A. Photo: A. Dekker.

Fig. 3.13 Confetti beads from Dommelen-Kerkakkers with barrel-shaped or biconical beads in the same colours from the same grave. A: grave 2; B: grave 3B; C: grave 3B. Photo's: M. Langbroek.

Fig. 3.15 Digitised field drawing of the beads in situ in Dommelen-Kerkakkers grave 3B. Drawing: F. Theuws.

Fig. 3.14 The string of beads excavated from Dommelen-Kerkakkers grave 3B. Photo: A. Dekker.

Fig. 3.16 Orange barrel-shaped bead from Dommelen-Kerkakkers grave 3B with smooth perforation sides and a rough surface. Photo: M. Langbroek.

Fig. 3.17 The four beads excavated from Dommelen-Kerkakkers grave 3A or 3B. Photo: A. Dekker.

Fig. 3.18 The beads excavated from Dommelen-Kerkakkers grave 4. Photo: A. Dekker.

Fig. 3.19 Beads from the sixth century excavated from late seventh century graves in Dommelen-Kerkakkers. Photo's: M. Langbroek.

Fig. 3.20 Beads in situ in the part of the grave that was lifted en bloc. Photo: M.B. Langbroek.

Fig. 3.21 Reconstruction of the string of beads excavated from Veldhoven-Site K grave 13. Photo's: M. Langbroek. Image: F. Theuws.

Fig. 3.22 Pulverised bead 24 excavated from Veldhoven-Site K grave 13. Photo: M.B. Langbroek.

Fig. 3.23 Reconstruction of the string of beads excavated from Veldhoven-Site K grave 25. Photo's: M. Langbroek.

Fig. 3.24 Bead excavated from Veldhoven-Site G grave 1. Photo: ADC Archeoprojecten.

Fig. 3.25 Visible winding lines in bead 32 from Veldhoven-Site K grave 13. Photo: M. Langbroek.

Fig. 3.26 Black iron scale in the perforation of bead 25 from from Veldhoven-Site K grave 13. Photo: M. Langbroek.

Fig. 3.27 Beads from Bergeijk grave 43 (P3). Photo: A. Dekker.

Fig. 3.28 Beads from Bergeijk graves 7, 29, 36 and 53 (P4). Photo's: A. Dekker.

Fig. 3.29 Beads from Bergeijk graves 19, 22, 27, 28, 45, 88 and 89 (P5). Photo's: A. Dekker.

Fig. 3.30 A Bergeijk grave 19 (Photo: A. Dekker), B Bossut-Gottechain grave 365 (Pion 2014), C Hailfingen grab 356 (Koch 2001, 603 and Farbtafel 3).

Fig. 3.31 Beads from Bergeijk graves 9 and 122 (P6). Photo's: A. Dekker.

Fig. 3.32 Beads from Veldhoven-Oeienbosdijk grave 14 (P4). After Verwers 1975 (I added the colours).

Fig. 3.33 Beads from Veldhoven-Oeienbosdijk graves 10 and 16 (P5). After Verwers 1975 (I added the colours).

Fig. 3.34 Beads from Veldhoven-Oeienbosdijk grave 6 (P6). After Verwers 1975 (I added the colours).

Fig. 3.35 Beads from Veldhoven-Meerveldhoven graves 18, 19, 28 and 46 (P5). Photo's: Noord-Brabants Museum.

Fig. 3.36 Beads from Veldhoven-Meerveldhoven grave 10 (P6). Photo: Noord-Brabants Museum.

Fig. 3.37 Beads from Uden grave 19 (P2). Photo's: M. Hemminga.

Fig. 3.38 Beads from Uden graves 15 and 29 (P3). Photo's: M. Hemminga.

Fig. 3.39 NL: String of 60 beads found in grave 15 of the small cemetery Uden-Schepersweg, of which 3 polychrome bead types are highlighted. Photo's: M. Hemminga and M.B. Langbroek; DE: identical beads found in Schretzheim, Germany. Pictures U. Koch; UK: identical beads found in Morning Thorpe, Mill Hill and Buckland, England. Photo's: K. Parfitt and J. Hines; BE: identical beads found in Bossut-Gottechain, Broechem, Verlaine-Oudomont and Viesville, Belgium. Photos: C. Pion and O. Vrielynck.

Fig. 3.40 Distribution of red cylindrical beads decorated with a white spiral in northern Gaul.

Fig. 3.41 Distribution of white beads decorated with blue interlacing and red dots in northern Gaul.

Fig. 3.42 Beads from Uden graves 11, 14, 21, 22, 23 and 39 (P5). Photo's: M. Hemminga and M. Langbroek.

Fig. 3.43 Typical P5 beads. Photo's: M. Langbroek.

Fig. 3.44 Typical P6 beads. Photo's: M. Langbroek.

Fig. 3.45 Development of barrel-shaped or biconical beads from the mid-sixth century onwards. Beads depicted were excavated from the following cemeteries: Lent-Lentseveld, Elst-'t Woud, Wijchen-Centrum, Dommelen-Kerkakkers, Bergeijk-Fazantlaan and Dorestad-De Heul. Photo's: M. Langbroek.

Fig. 3.46 P1 confetti beads from lent-Lentseveld vs P6 confetti beads from Dommelen-Kerkakkers. Photo's: M. Langbroek.

Fig. 3.47 Perforated doughnut beads from Dommelen-Kerkakkers. Photo's: M. Langbroek.

Fig. 3.48 Distribution of shell-disc beads in northern Gaul.

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Fig. 4.1 Find locations of beads dating to the Merovingian period in northern Gaul. Source: www.earlymedievaleurope.org (Online Database ERC Rural Riches).

Fig. 4.2 Distribution of cemeteries dating to the sixth century in northern Gaul (left) and find locations of beads with an origin in the eastern Mediterranean or beyond in northern Gaul (right). Source: www.earlymedievaleurope.org (Online Database ERC Rural Riches).

Fig. 4.3 Location of the sixth-century cemetery Lent-Lentseveld. Image by J. Hendriks, Municipality of Nijmegen.

Fig. 4.4 Plan of the sixth century cemetery Lent-Lentseveld. Graves with beads are indicated by their grave number. Image by J. Hendriks, Municipality of Nijmegen.

Fig. 4.5 This string of beads consists of hundred-twenty-one beads of glass, amber and faience and was found around the neck of a young child in a grave from the sixth century cemetery of Lent-Lentseveld. The beads in this string were made with varying techniques and have origins in Northwestern Europe, the Baltic, the Syro-Palestinian coast, Egypt, Mesopotamia, and India. photo: A. Dekker.

Fig. 4.6 Examples of beads from the cemetery Lent-Lentseveld made with various production techniques. A: drawn bead with lines parallel to the perforation; B: wound bead with concentric lines around the perforation; C: folded bead with visible seam; D: perforated bead with one irregular side; E: mosaic bead formed by various slices of mosaic glass; F: amber bead with cut and polished faces. photo's: M.B. Langbroek.

Fig. 4.7 The black bead-types featured in this case study. Photo's: M.B. Langbroek.

Fig. 4.8 Black beads: PCA results pXRF and LA-ICP-MS**.** By bead-type a) pXRF and b) LA-ICP-MS; by grave c) pXRF and d) LA-ICP-MS. Main loadings are given in graphs a (Sr and Pb) and b (PbO, TiO_2, ThO_2, Na_2O and SrO).

Fig. 4.9 Chemical composition of black beads: a) Biplot black beads PbO vs SrO plotted per main bead-type (LA-ICP-MS). b). Biplot black beads PbO vs AiO plotted per main bead-type (LA-ICP-MS).

Fig. 4.10 The green-blue/blue-green bead-types featured in this case study. Photo's: M.B. Langbroek.

Fig. 4.11 Chemical composition of green-blue/blue-green beads (LA-ICP-MS). a) SnO2 vs Sb2O3 plotted per main bead-type, b) CuO vs SnO2plotted per main bead-type, c) CuO vs NiO plotted per main bead-type, d) zoomed detail CuO vs NiO.

Fig. 4.12 Green-blue/blue-green beads: PCA results pXRF and LA-ICP-MS. a) pXRF analysis plotted per bead-type, b) LA-ICP-MS analysis plotted per bead-type, c) pXRF analysis plotted per bead grave, d) LA-ICP-MS analysis plotted per bead grave.

Fig. 4.13 The red bead-types featured in this case study. Photo's: M.B. Langbroek.

Fig. 4.14 Chemical composition of red beads (LA-ICP-MS). a) CuO vs SnO_2, b) PbO vs SrO, c) SnO_2 vs Sb_2O_5.

Fig. 4.15 Red beads: PCA results pXRF and LA-ICP-MS plotted per main bead-type a) pXRF, b) LA-ICP-MS.

Fig. 4.16 Red A,C,D,E and G bead-types: PCA results pXRF and LA-ICP-MS. a) pXRF by bead-type; b) LA-ICP-MS by bead-type c) pXRF by grave, d) LA-ICP-MS by grave.

Fig. 4.17 Red B bead-types: PCA results pXRF and LA-ICP-MS. By bead-type a) pXRF, b) LA-ICP-MS, by grave c) pXRF, d) LA-ICP-MS.

Fig. 4.18 Red B1.1-03 beads: PCA results a) pXRF and b) LA-ICP-MS.

Fig. 4.19 Mosaic beads from grave 9 and grave 5 with similar mosaic patterns and similar chemical compositions. Photo's: M.B. Langbroek.

Fig. 4.20 B5.2 and B11 beads from grave 20, each pair forming a separate chemical cluster in the PCA. The beads from each cluster were found side by side during the excavation. Photo's separate beads: M.B. Langbroek. Photo String of beads: A. Dekker.

Fig. 4.21 TiO_2 vs CaO for different bead-types (LA-ICP-MS data, logarithmic scale).

Fig. 4.22 Biplot of SnO_2 and Sb_2O_3 content per measurement, sorted per main bead-type (LA-ICP-MS, logarithmic scale).

Fig. 4.23 Symmetrical string of beads from Lent-Lentseveld Grave 20. photo: A. Dekker.

Fig. 5.1 Locations of the cemeteries in this study. 1. Lent-Lentseveld; 2. Elst-'t Woud; 3. Wijchen-Centrum.

Fig. 5.2 Examples of beads from the cemetery Lent-Lentseveld made with various production techniques. A: drawn bead with lines parallel to the perforation; B: wound bead with concentric lines around the perforation; C: folded bead with visible seam; D: perforated bead with one irregular side; E: mosaic bead formed by various slices of mosaic glass; F: amber bead with cut and polished faces. photo's: M.B. Langbroek.

Fig.5.3 A bead-types with colourless glass addressed in this paragraph.

Fig. 5.4 Biplot of TiO_2/Al_2O_3 ratios against SiO_2/Al_2O_3 ratios of colourless A bead-types. Reference ratios are also plotted.

Fig. 5.5 B bead-types with colourless glass addressed in this paragraph.

Fig. 5.7 E bead-types with colourless glass addressed in this paragraph.

Fig. 5.6 Biplot of TiO_2/Al_2O_3 ratios against SiO_2/Al_2O_3 ratios of colourless B bead-types. Reference ratios are also plotted.

Fig. 5.8 Biplot of TiO_2/Al_2O_3 ratios against SiO_2/Al_2O_3 ratios of colourless E bead-types. Reference ratios are also plotted.

Fig. 5.9 A, E and G bead-types with naturally coloured glass addressed in this paragraph.

Fig. 5.10 Biplot of TiO_2/Al_2O_3 ratios against SiO_2/Al_2O_3 ratios of naturally coloured A, E and G bead-types. Reference ratios are also plotted.

Fig. 5.11 B bead-types with naturally coloured glass addressed in this paragraph.

Fig. 5.12 Biplot of TiO_2/Al_2O_3 ratios against SiO_2/Al_2O_3 ratios of naturally coloured B bead-types. Reference ratios are also plotted.

Fig. 5.13 Biplot of SnO_2 ratios against PbO ratios of yellow opaque bead-types.

Fig. 5.14 Biplot of SnO_2 ratios against Sb_2O_3 ratios of yellow opaque bead-types.

Fig. 5.15 Black bead-types in this study.

Fig. 5.16 Black beads: PCA results LA-ICP-MS. a) by bead-type b) by grave.

Fig. 5.17 Biplots of PbO ratios against Al_2O_3 ratios and PbO ratios against Fe_2O_3 ratios of black bead-types.

Fig. 5.18 Green-blue and blue-green bead-types in this study.

Fig. 5.19 Blue-Green/Green-Blue beads: PCA results LA-ICP-MS. a) by bead-type b) by grave.

Fig. 5.20 Blue-Green/Green-Blue beads: PCA results LA-ICP-MS by bead type and by grave a) A bead-types b) C and D bead-types c) B bead-types d) A bead-graves e) C and D bead-graves f) B bead-graves.

Fig. 5.21 Biplots of Al_2O_3 ratios against MgO ratios, SrO ratios against CaO ratios, Sb_2O_3 ratios against SnO ratios and PbO ratios against CuO ratios of blue-green/green-blue A,C and D bead-types.

Fig. 5.22 Blue-Green/Green-Blue beads: PCA results LA-ICP-MS by bead type, in which B1.4-04 beads are pointed out, with a photograph of the bead represented by each measurement. You can clearly see the varying appearance of these beads, despite being assigned to the same type.

Fig. 5.23 Red bead-types in this study.

Fig. 5.24 Red A-C-E bead-types: PCA results LA-ICP-MS**.** a) by bead type b) by grave c) type-groups indicated d) grave-groups indicated.

Fig. 5.25 Red monochrome B bead-types: PCA results LA-ICP-MS**.** a) by bead type b) by grave c) type-groups indicated d) grave-groups indicated. Fig. 5.26 Red polychrome B bead-types: PCA results LA-ICP-MS**.** a) by bead type b) by grave c) type-groups indicated d) grave-groups indicated.

Fig. 5.27 Biplot of MgO ratios against K_2O ratios of red A, C, D and E bead-types.

Fig. 5.28 Biplots of PbO ratios against Cuo ratios and SrO ratios against B_2O ratios of red bead-types.

Fig. 5.29 Bead-types mentioned in this paragraph found in both Campo-Marchione ('C') and one of the cemeteries in this study: Lent-Lentseveld (L), Elst-'t Woud (E) and Wijchen-Centrum (W).

Fig. 5.30 Biplot of TiO_2/Al_2O_3 ratios against Al_2O/SiO_{23} ratios of colourless bead-types from Campo-Marchione. Reference ratios are also plotted.

Fig. 5.31 Biplot of TiO_2/Al_2O_3 ratios against Al_2O/SiO_{23} ratios of colourless A bead-types found in both Campo-Marchione (It) and one of the cemeteries in this study: Lent-Lentseveld (L), Elst-'t Woud (E) and Wijchen-Centrum (W). Reference ratios are also plotted.

Fig. 5.32 PCA results LA-ICP-MS of blue-green/green-blue bead-types found in Campo-Marchione (CM) and one of the Dutch cemeteries in this study: Lent-Lentseveld (L), Elst-'t Woud (E) and Wijchen-Centrum (W).

Fig. 5.33 PCA results LA-ICP-MS of red bead-types found in Campo-Marchione (CM) and one of the Dutch cemeteries in this study: Lent-Lentseveld (L), Elst-'t Woud (E) and Wijchen-Centrum (W): a) A, D and E bead-types b) B bead-types.

Fig. 5.35 NL: String of 60 beads found in grave 15 of the small cemetery Uden-Schepersweg, of which three polychrome bead types are highlighted. Photo's M. Hemminga and M.B. Langbroek; DE: identical beads found in Schretzheim, Germany (after Koch 1977); UK: identical beads found in Morning Thorpe, Mill Hill and Buckland, England (after Brugmann 2004); BE: identical beads found in Bossut-Gottechain, Broechem, Verlaine-Oudomont and Viesville, Belgium (after Pion 2014).

Fig. 5.34 Biplots of SnO ratios against Sb_2O_3 ratios, PbO ratios against Sb_2O_3 ratios, SnO against CuO ratios and PbO ratios against CuO ratios of red B1.1-03 bead-types, sorted per date (Pion's P-periods) of the set of beads they were found with.

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Fig. 5.37 Strings of beads dating to the sixth century with small wound beads made of opaque black glass and amber beads. Photos: M. Hemminga, A. Dekker, O. Vrielynck, R. Legoux, Archäologisches Pilgermuseum.

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1.1. Signs of people

1.1.1 Cemeteries

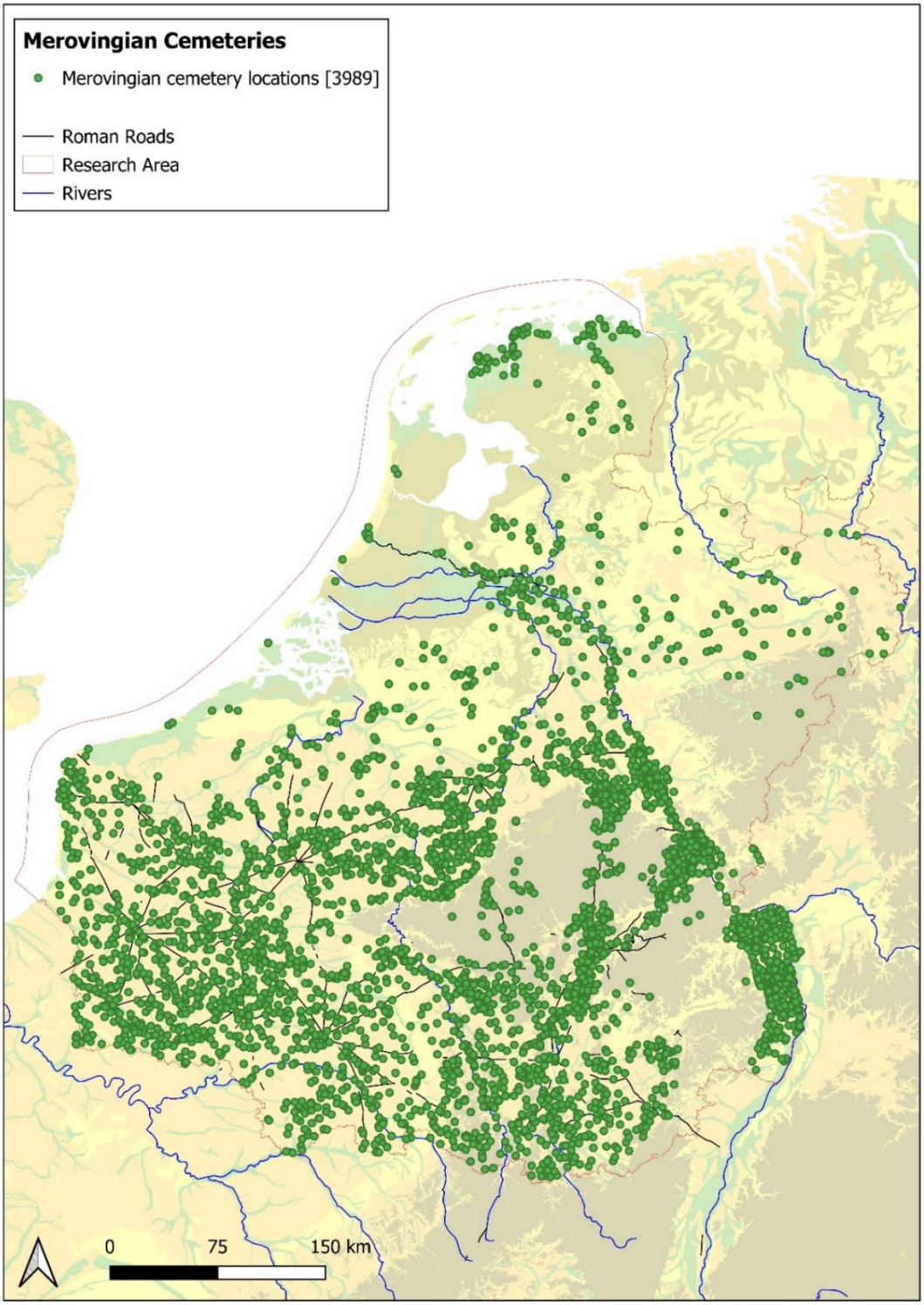
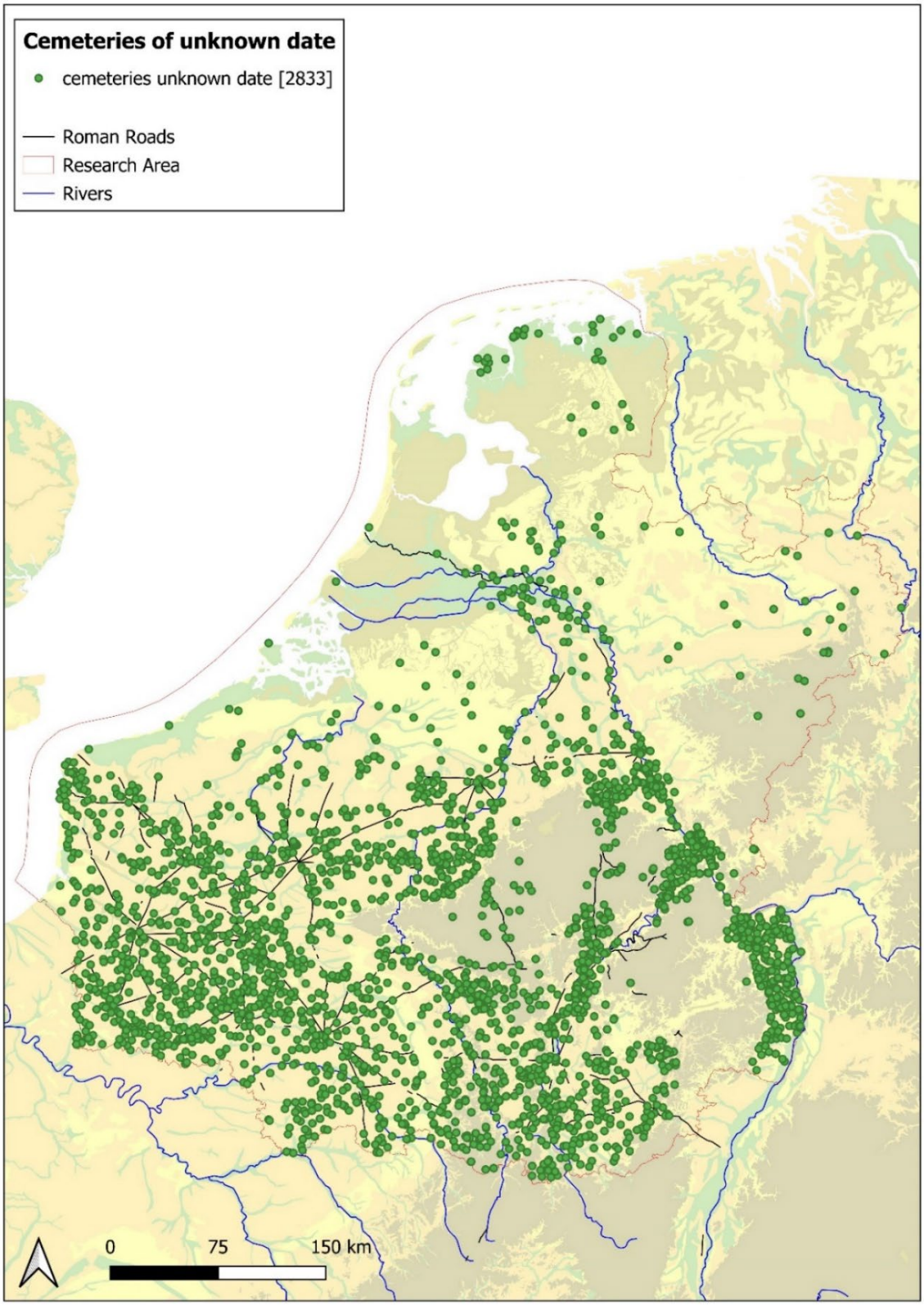


Figure 1.1.1.1 Distribution map of locations of all cemeteries dating to the Merovingian period in Northern Gaul. n = 3989 cemeteries.

Source: www.earlymedievaleurope.org (Online Database ERC Rural Riches).



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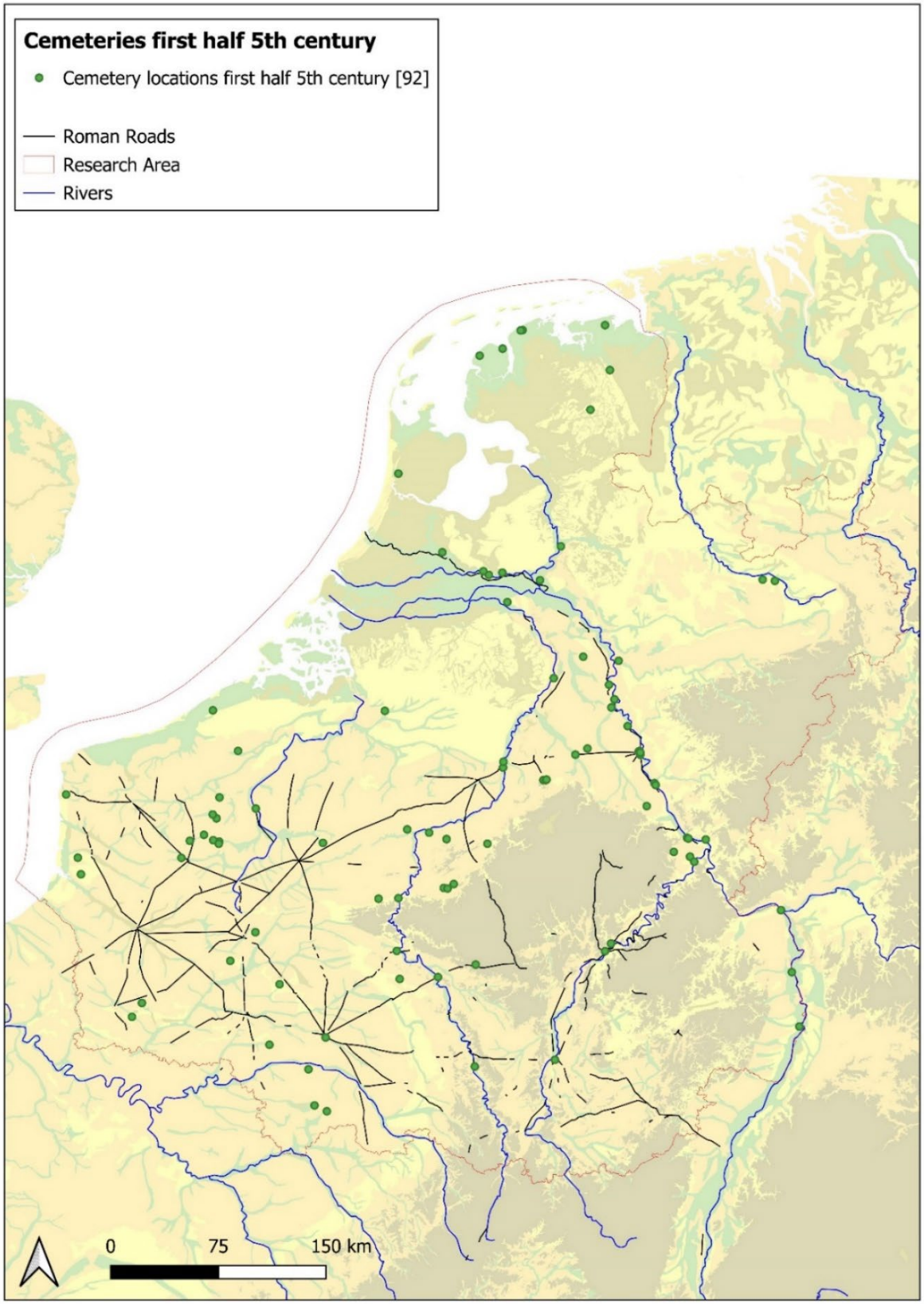
Source: www.earlymedievaleurope.org (Online Database ERC Rural Riches).



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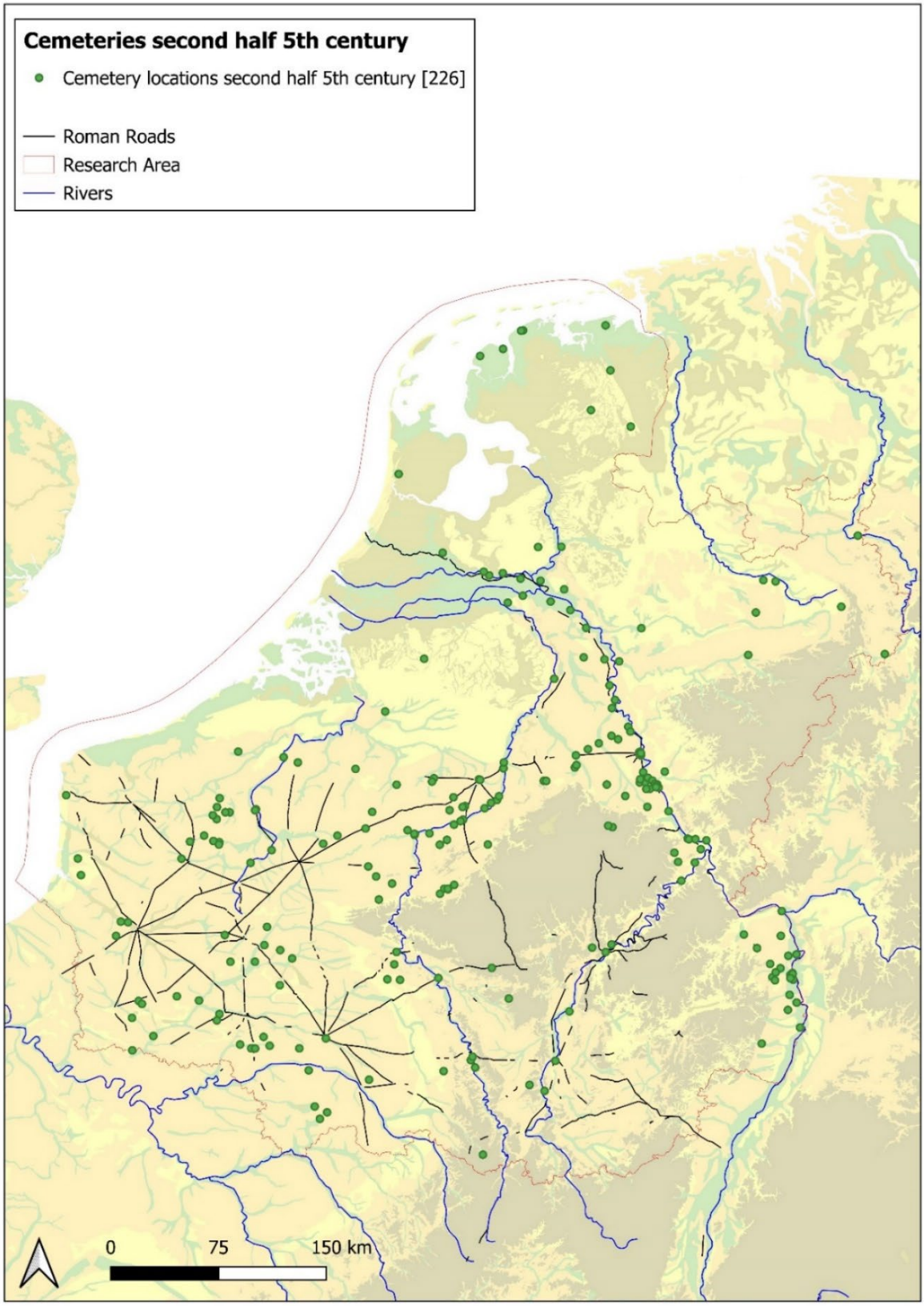
Source: www.earlymedievaleurope.org (Online Database ERC Rural Riches).



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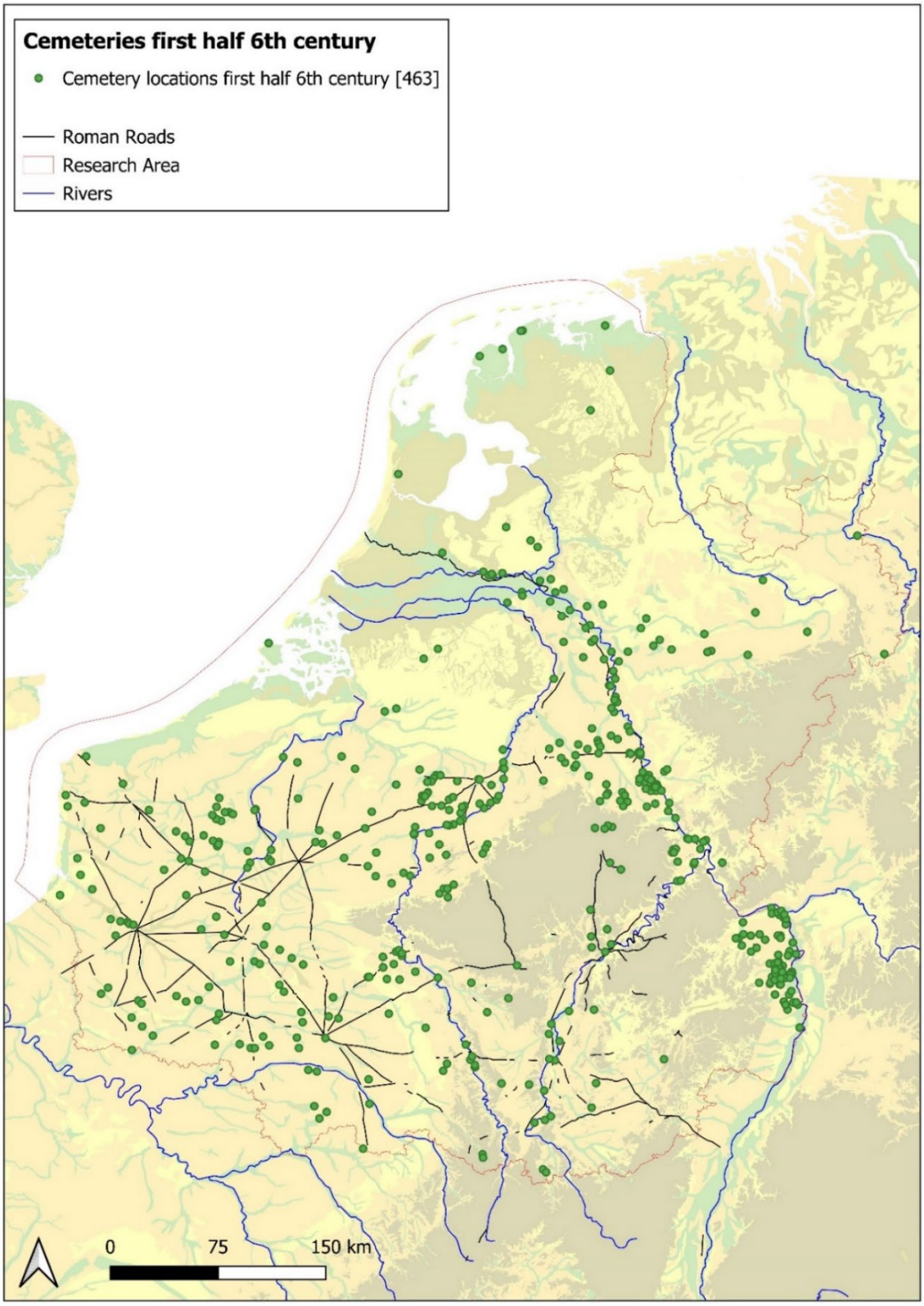
Source: www.earlymedievaleurope.org (Online Database ERC Rural Riches).



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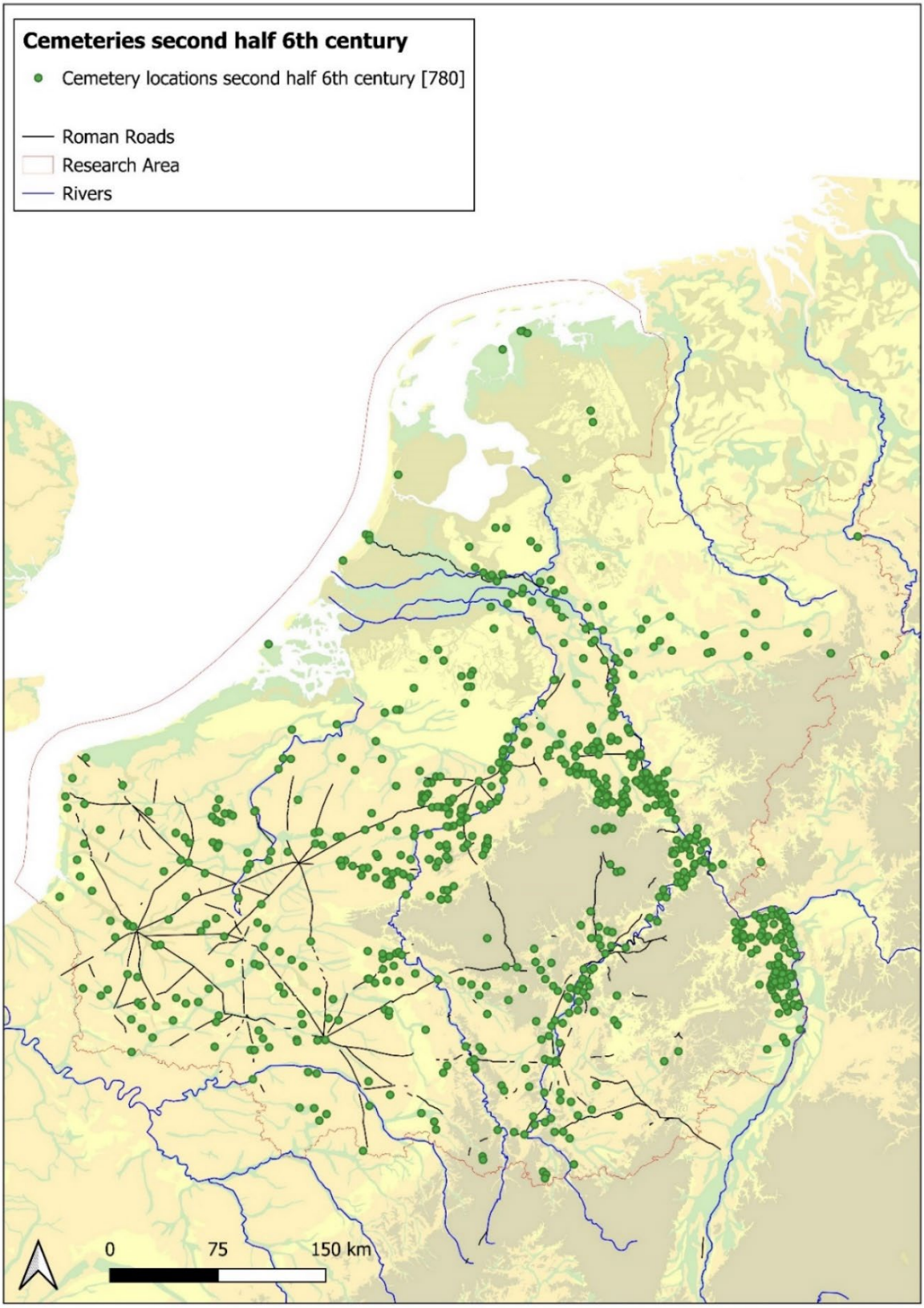
Source: www.earlymedievaleurope.org (Online Database ERC Rural Riches).



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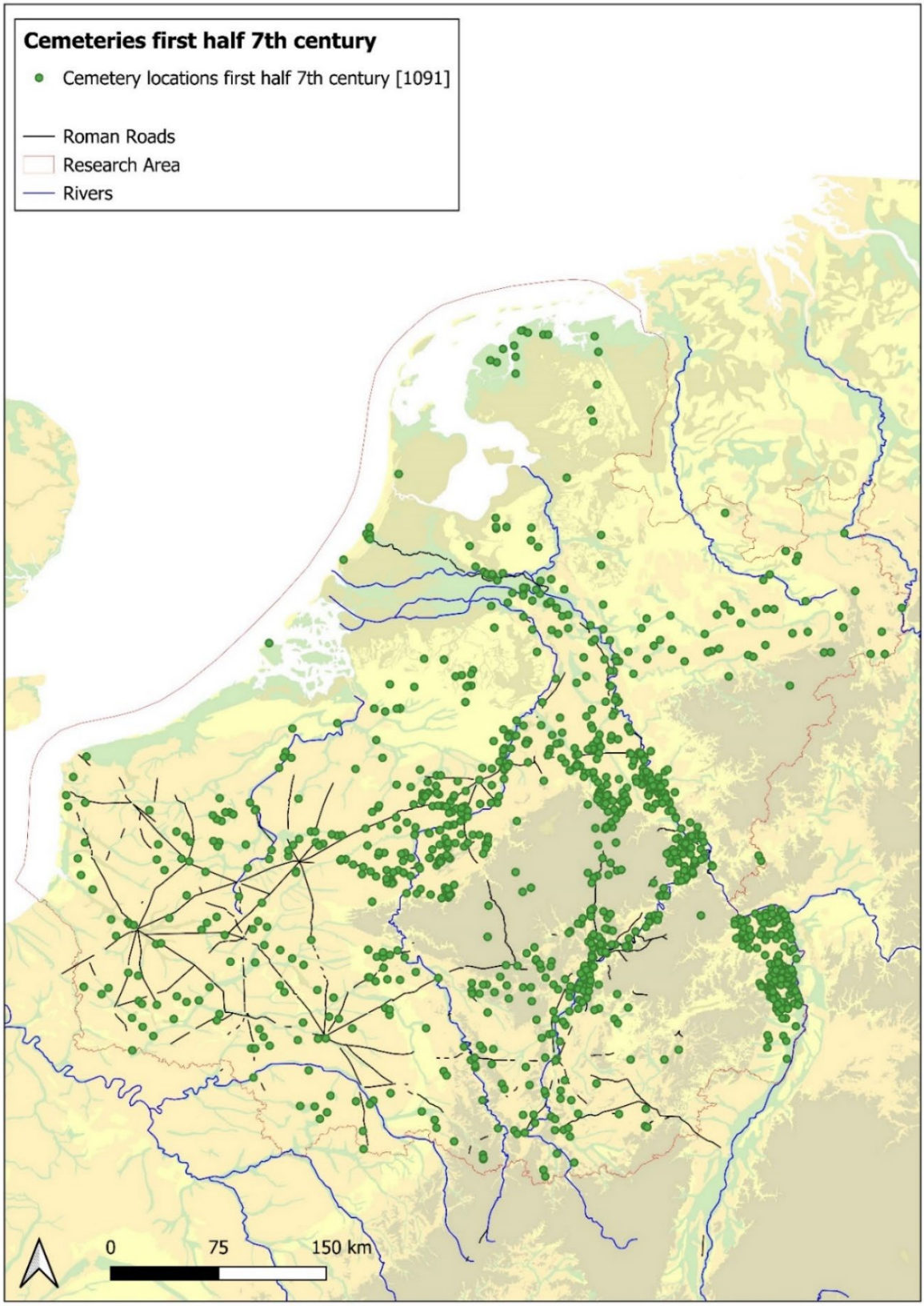
Source: www.earlymedievaleurope.org (Online Database ERC Rural Riches).



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Source: www.earlymedievaleurope.org (Online Database ERC Rural Riches).

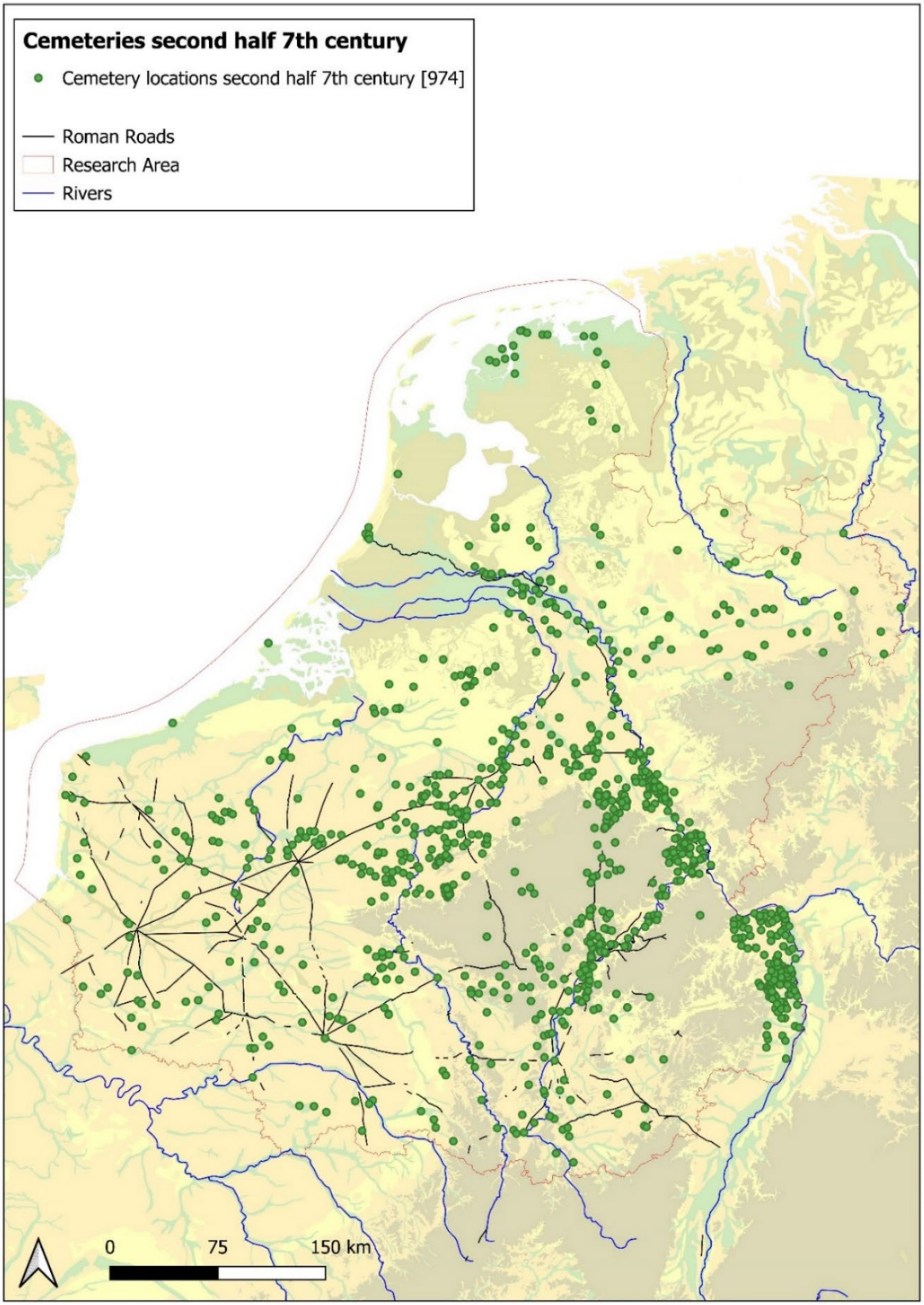


Figure 1.1.1.8 Distribution map of locations of cemeteries present during the second half of the seventh century in Northern Gaul. On this map, cemeteries with an end date after 650 and a start date before 700 are indicated. n = 974 cemeteries.

Source: www.earlymedievaleurope.org (Online Database ERC Rural Riches).

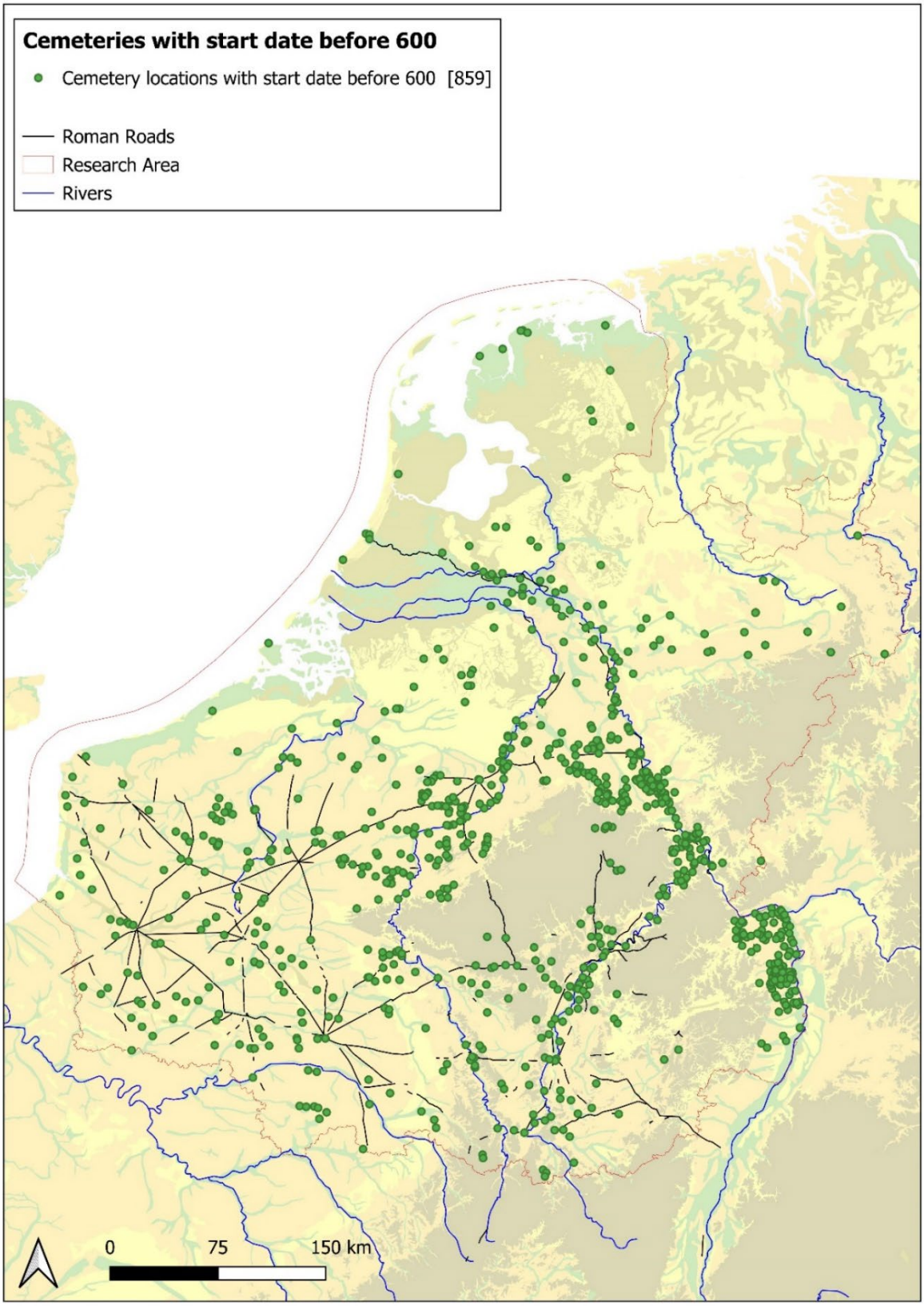


Figure 1.1.1.9 Distribution map of locations of cemeteries with a start date before 600 in Northern Gaul. n = 859 cemeteries.

Source: www.earlymedievaleurope.org (Online Database ERC Rural Riches).

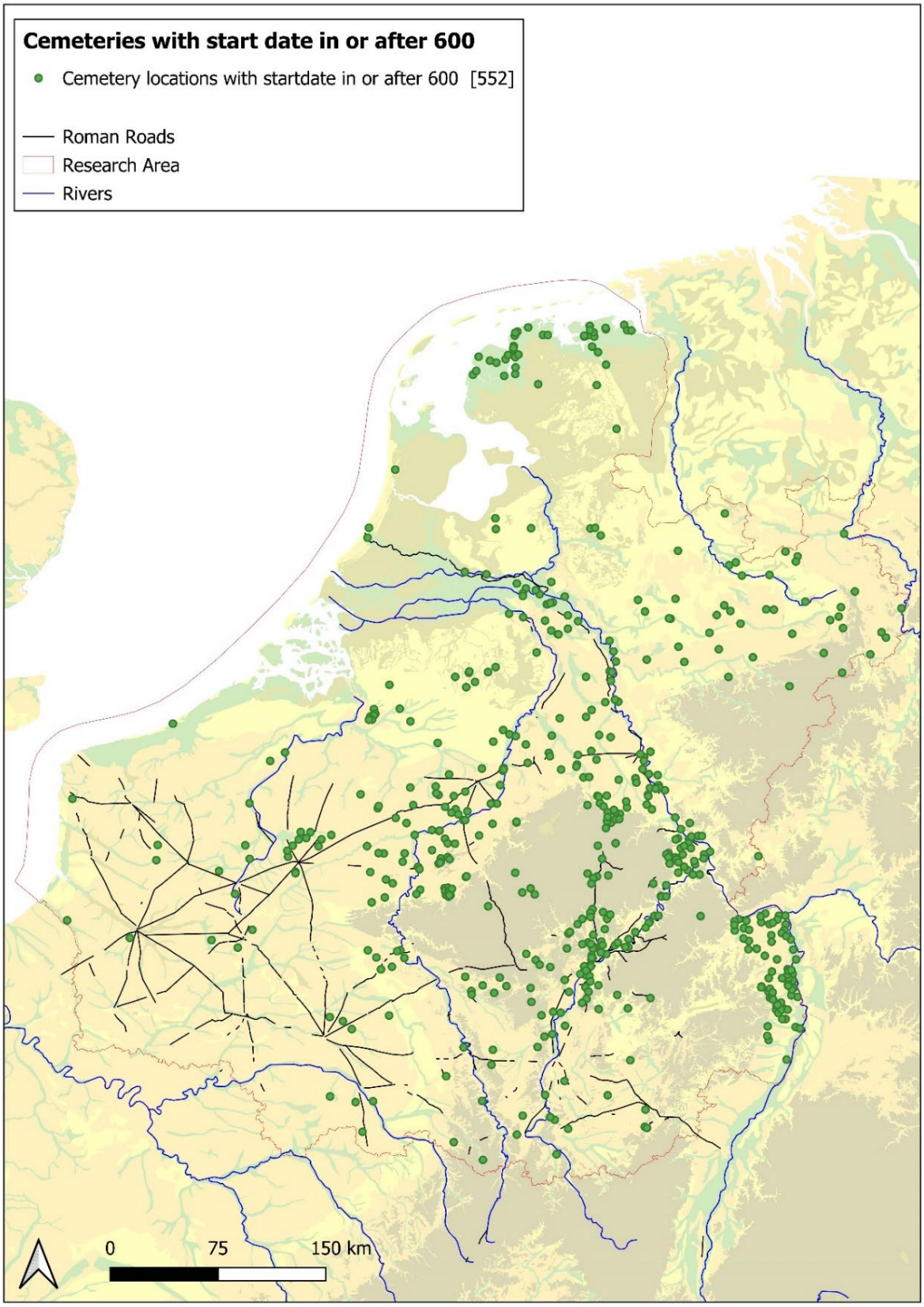


Figure 1.1.1.10 Distribution map of locations of cemeteries with a start date in or after 600 in Northern Gaul. n = 552 cemeteries.

Source: www.earlymedievaleurope.org (Online Database ERC Rural Riches).

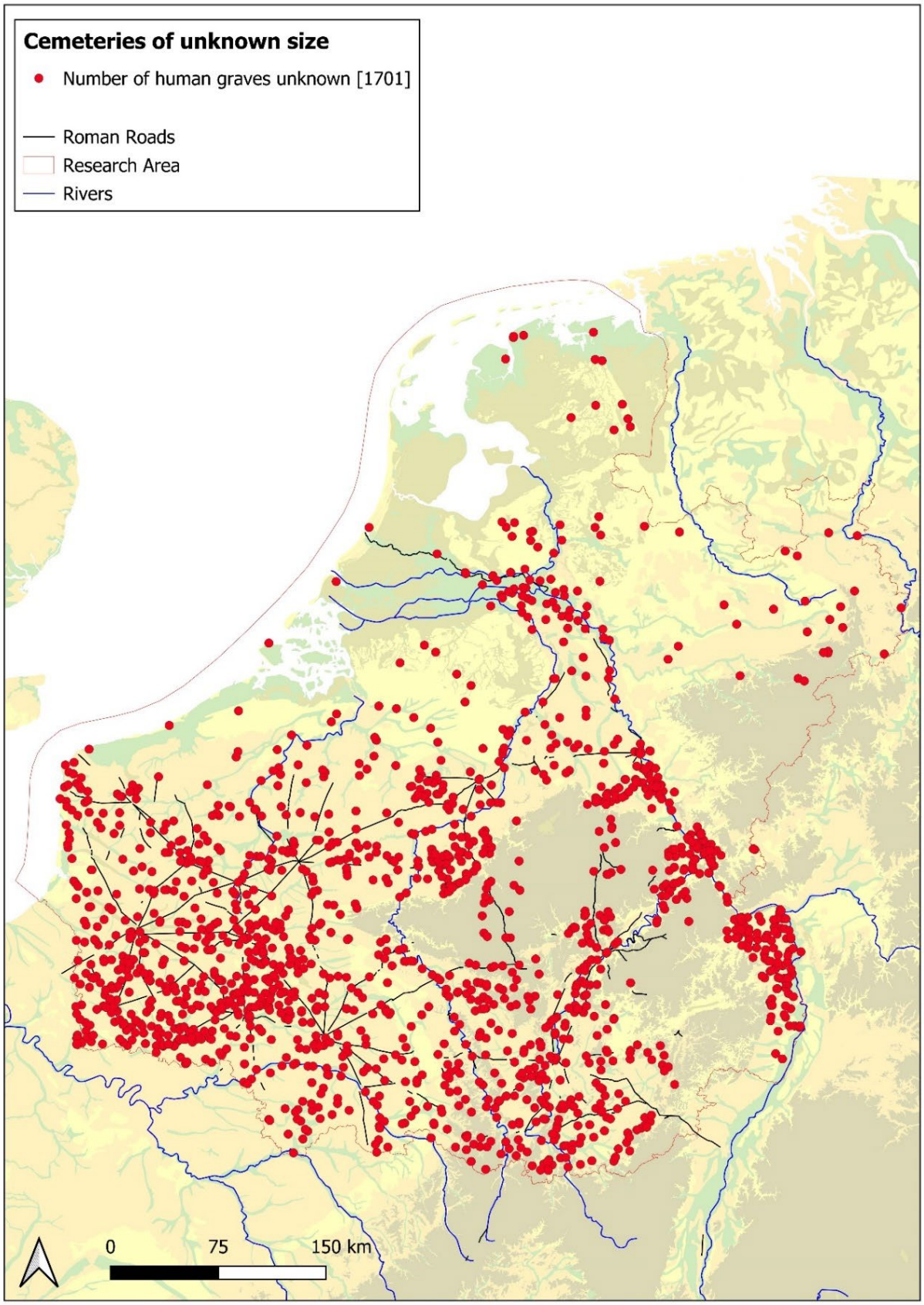


Figure 1.1.1.11 Distribution map of cemeteries of unknown size in Northern Gaul. n = 1701 cemeteries.

Source: www.earlymedievaleurope.org (Online Database ERC Rural Riches).

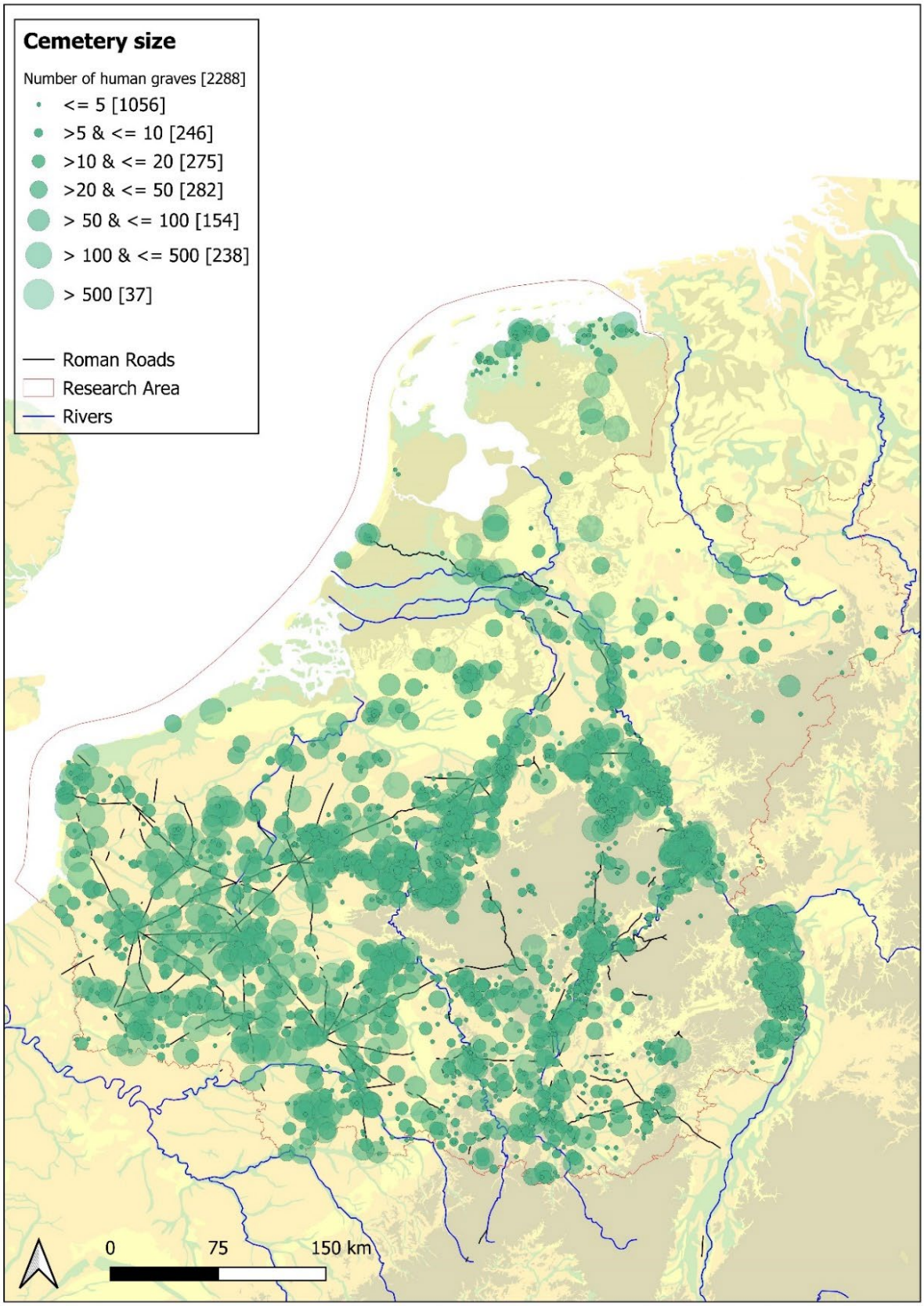


Figure 1.1.1.12 Distribution map of cemeteries in Northern Gaul, expressed in numbers of human graves. n = 2288 cemeteries.

Source: www.earlymedievaleurope.org (Online Database ERC Rural Riches).

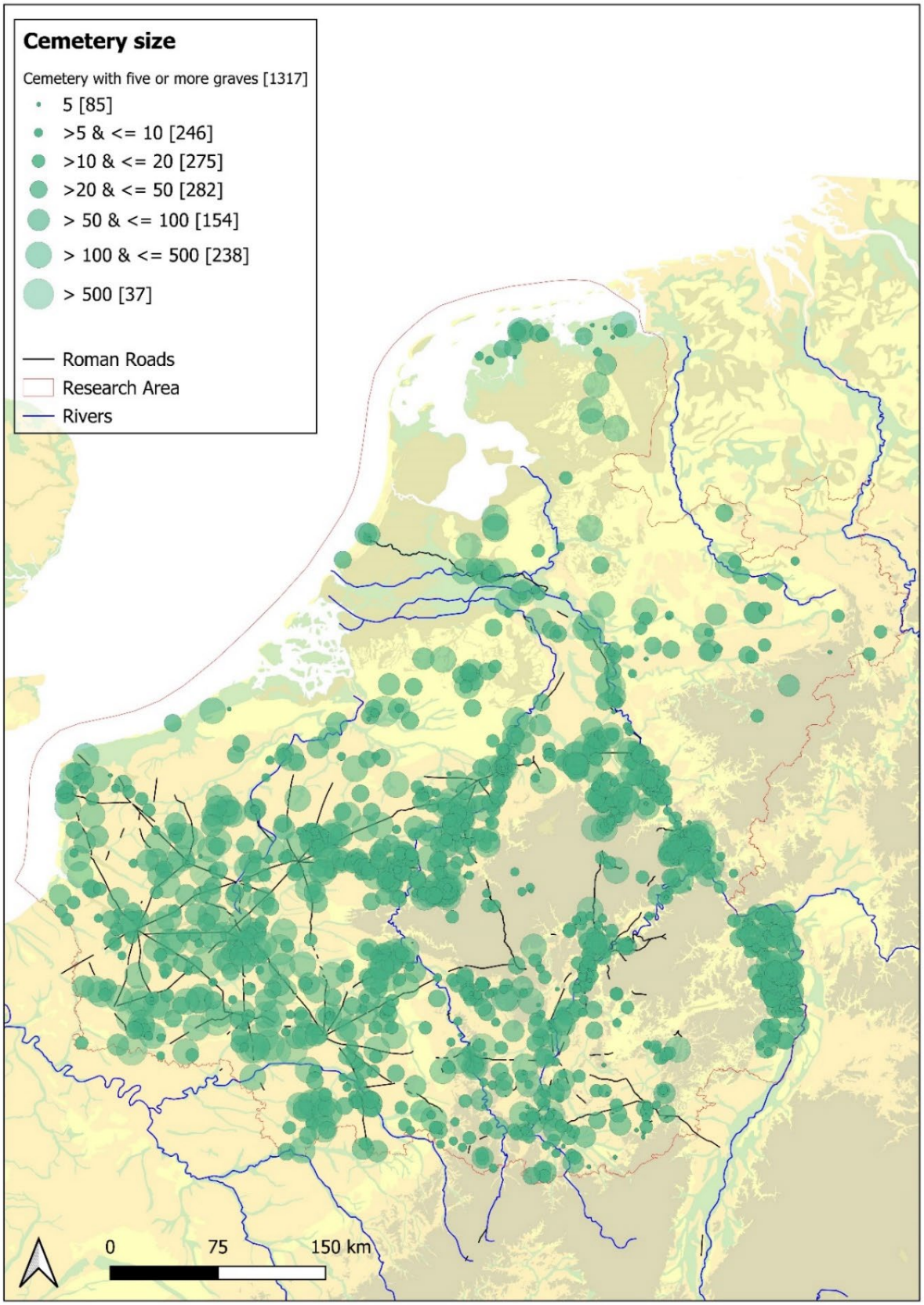


Figure 1.1.1.13 Distribution map of cemeteries with five or more human graves in Northern Gaul, expressed in numbers of human graves. n = 1317 cemeteries.

Source: www.earlymedievaleurope.org (Online Database ERC Rural Riches).

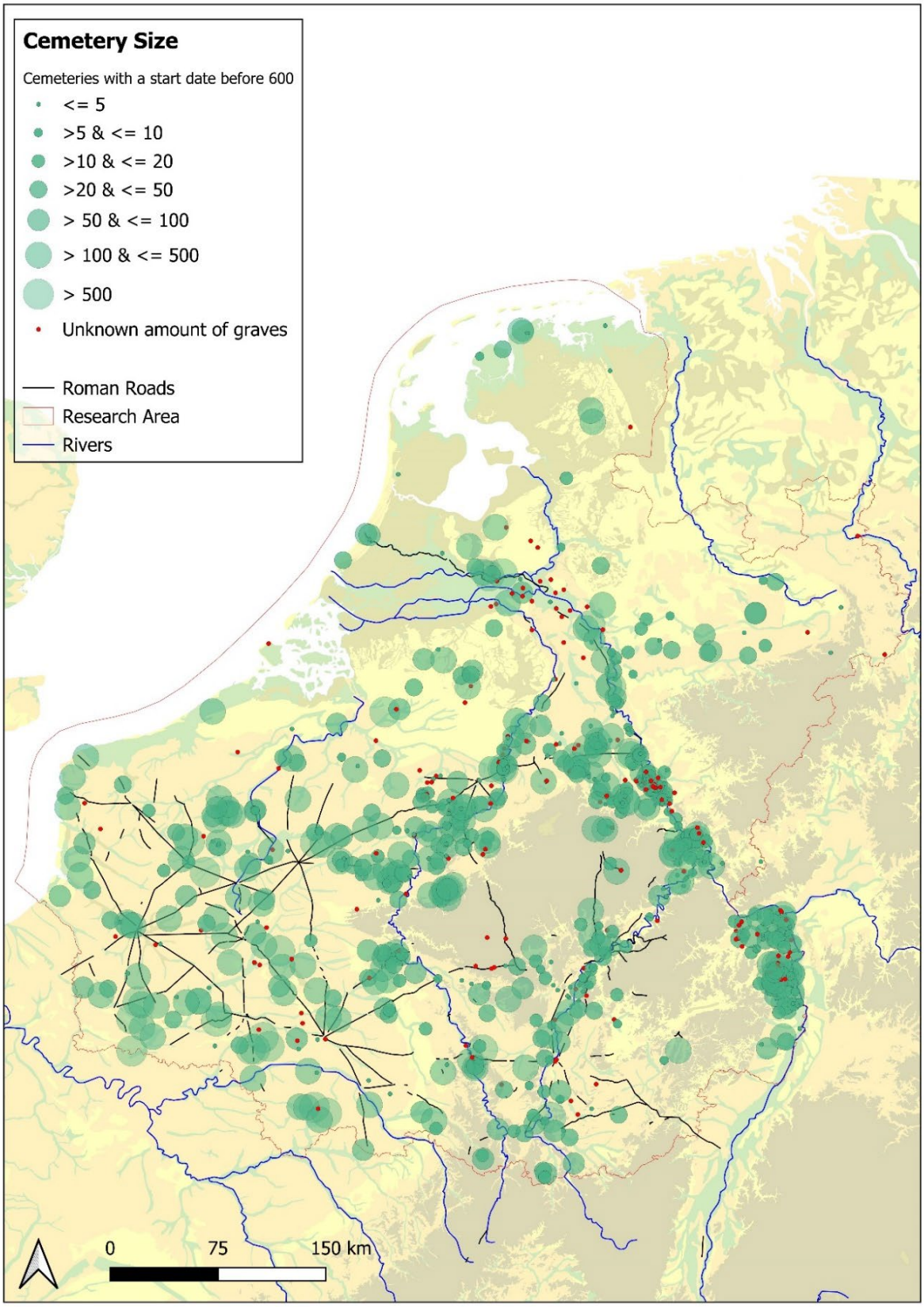


Figure 1.1.1.14 Distribution map of cemeteries with a start date before 600 in Northern Gaul, expressed in numbers of human graves. n = 859 cemeteries.

Source: www.earlymedievaleurope.org (Online Database ERC Rural Riches).

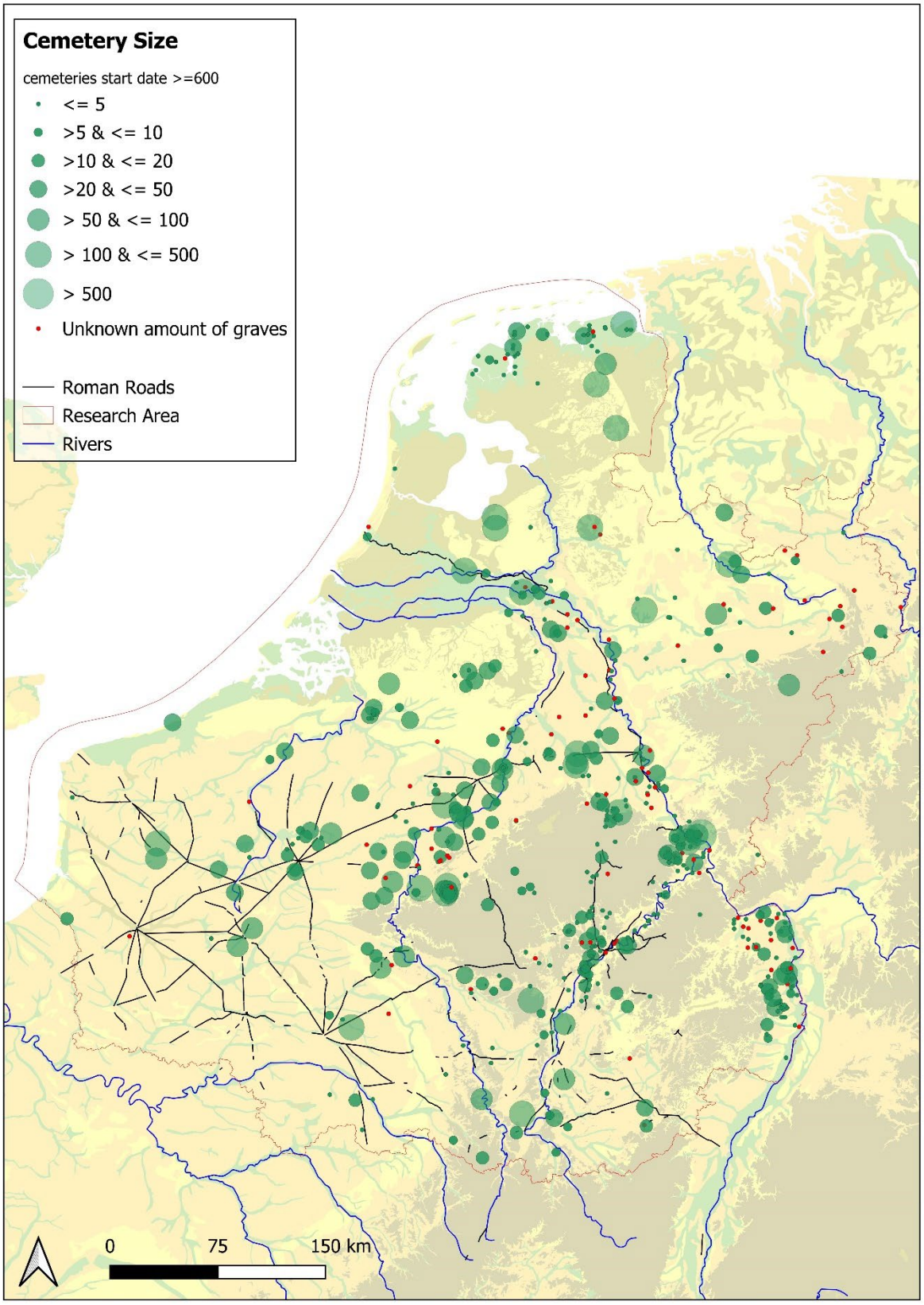


Figure 1.1.1.15 Distribution map of cemeteries with a start date in or after 600 in Northern Gaul, expressed in numbers of human graves. n = 552 cemeteries.

Source: www.earlymedievaleurope.org (Online Database ERC Rural Riches).

1.1.2 Settlements

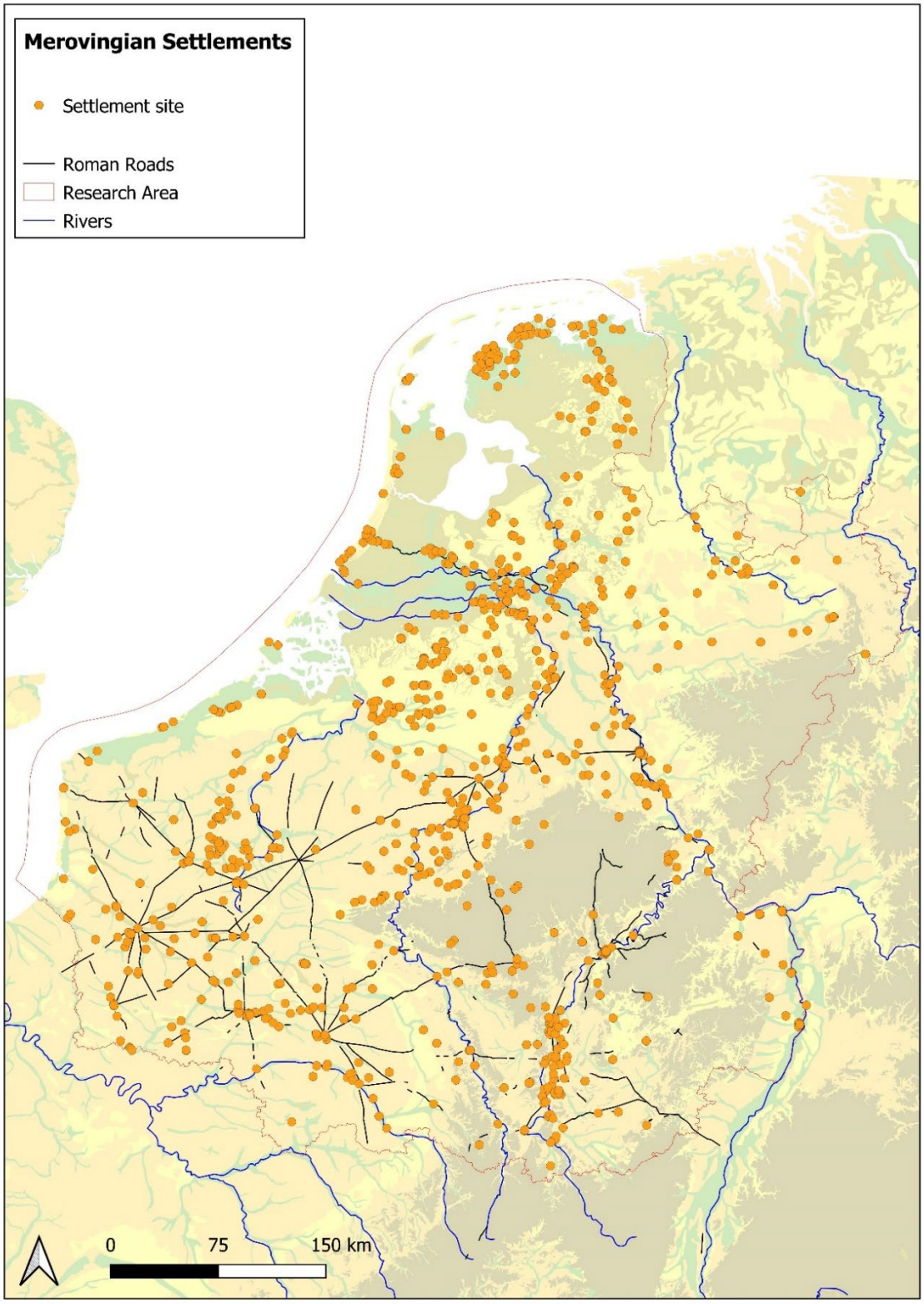


Figure 1.1.2.1 Distribution map of locations of all settlements dating to the Merovingian period in Northern Gaul. n = 1071 settlements.

Source: www.earlymedievaleurope.org (Online Database ERC Rural Riches).

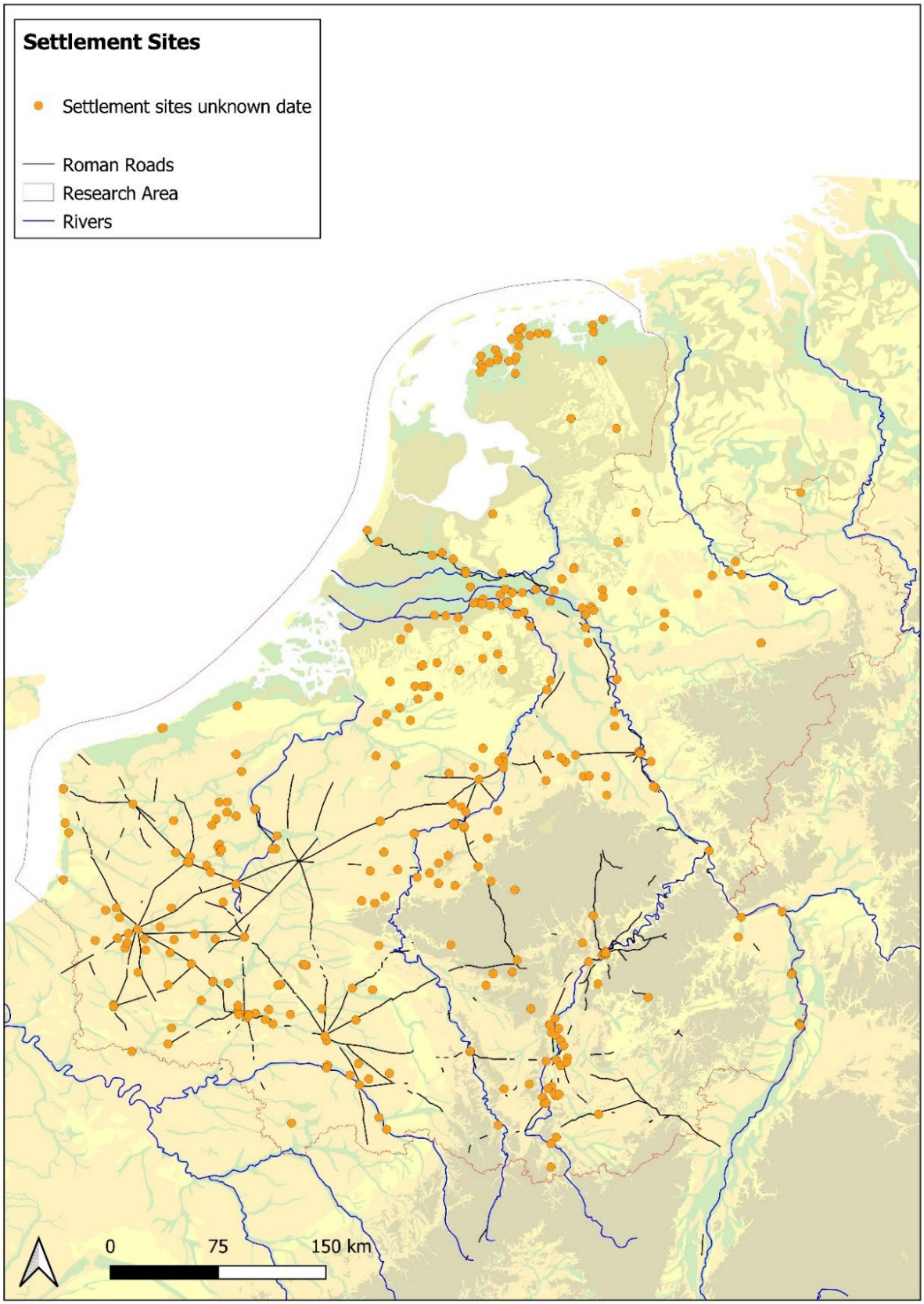


Figure 1.1.2.2 Distribution map of locations of all settlements of unknown date in Northern Gaul. n = 362 settlements.

Source: www.earlymedievaleurope.org (Online Database ERC Rural Riches).

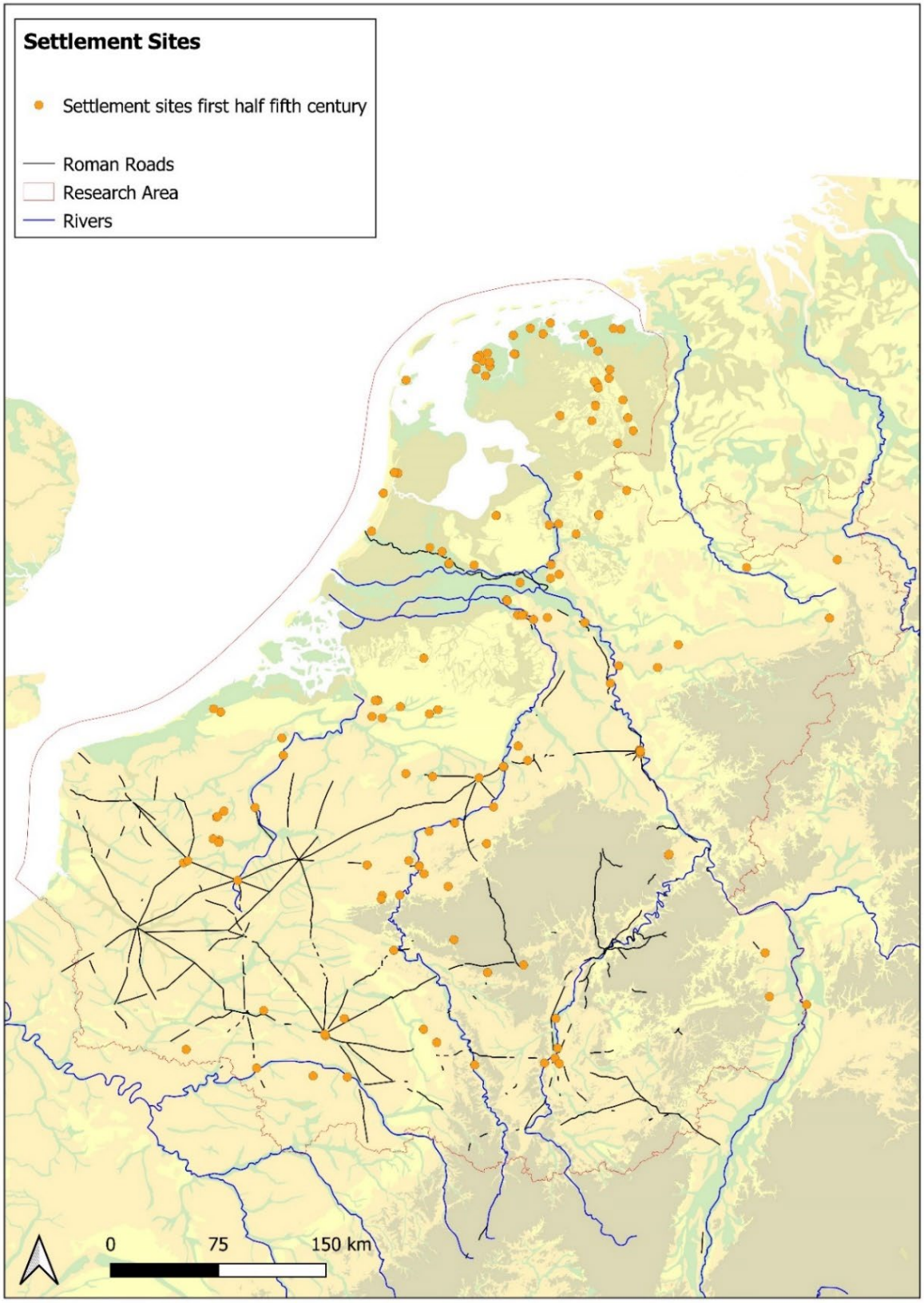


Figure 1.1.2.3 Distribution map of locations of all settlements present during the first half of the fifth century in Northern Gaul. On this map, settlements with an end date after 400 and a start date before 450 are indicated. n = 153 settlements.

Source: www.earlymedievaleurope.org (Online Database ERC Rural Riches).

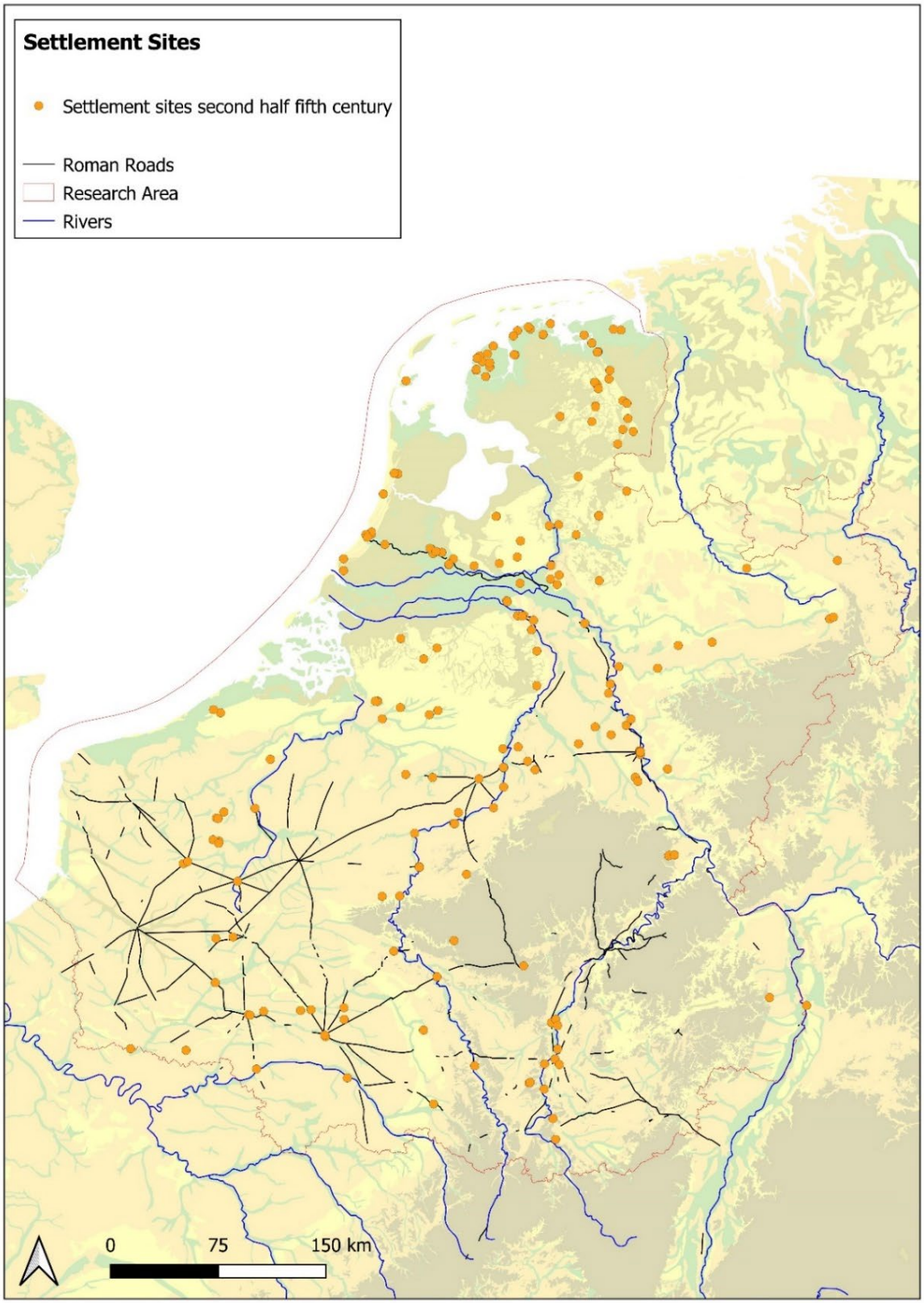


Figure 1.1.2.4 Distribution map of locations of all settlements present during the second half of the fifth century in Northern Gaul. On this map, settlements with an end date after 450 and a start date before 500 are indicated. n = 206 settlements.

Source: www.earlymedievaleurope.org (Online Database ERC Rural Riches).

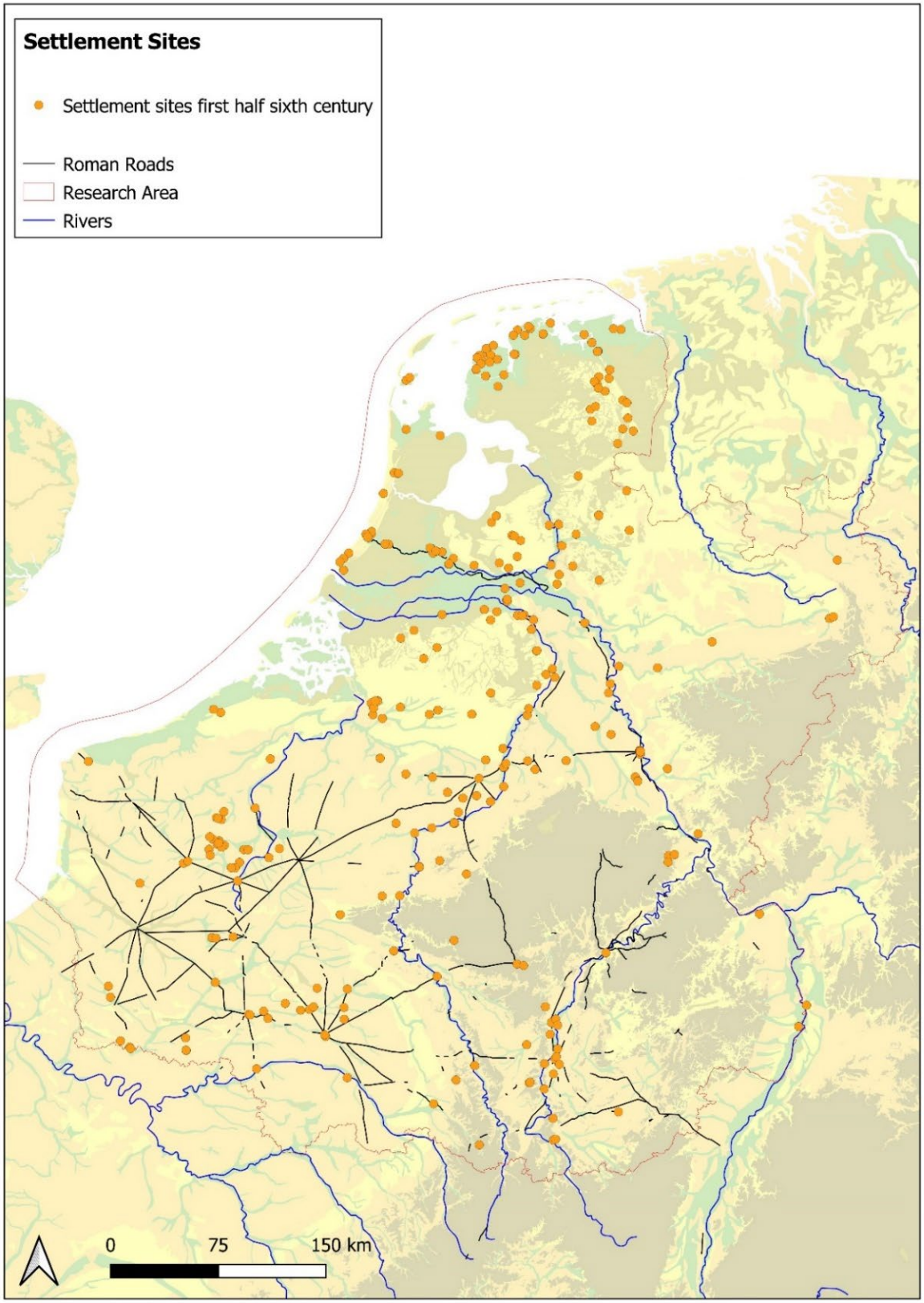
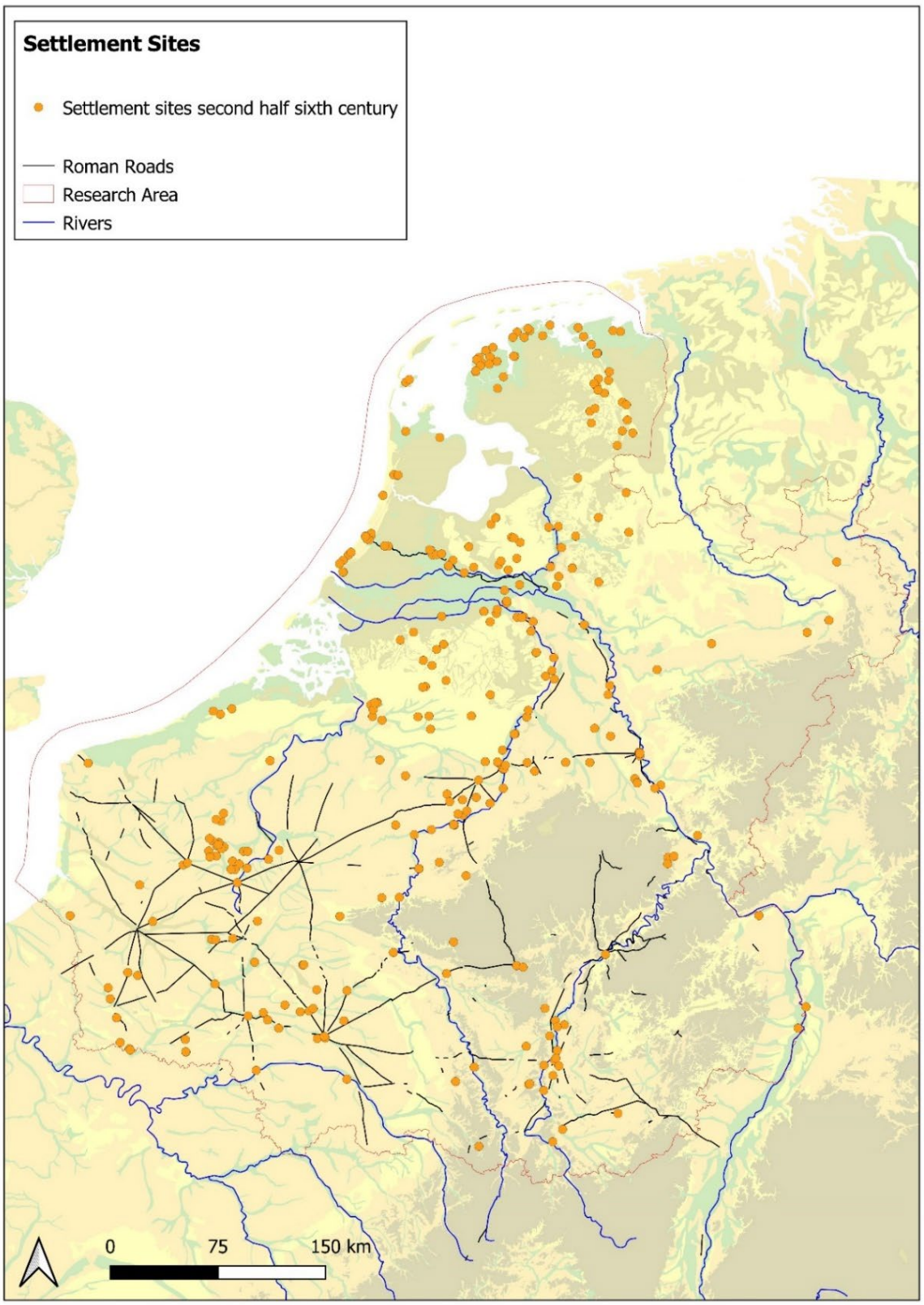


Figure 1.1.2.5 Distribution map of locations of all settlements present during the first half of the sixth century in Northern Gaul. On this map, settlements with an end date after 500 and a start date before 550 are indicated. n = 299 settlements.

Source: www.earlymedievaleurope.org (Online Database ERC Rural Riches).



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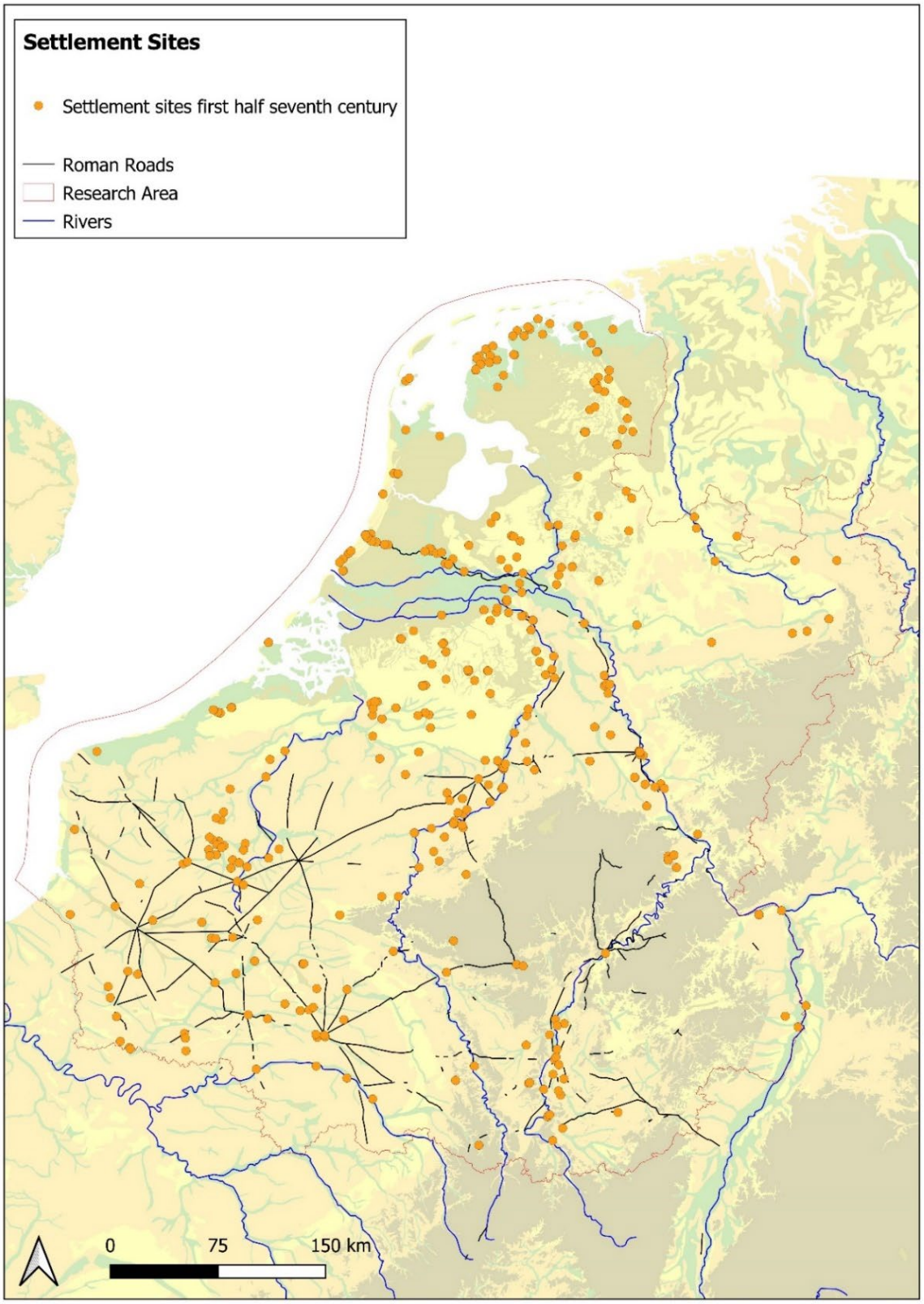
Source: www.earlymedievaleurope.org (Online Database ERC Rural Riches).



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Source: www.earlymedievaleurope.org (Online Database ERC Rural Riches).

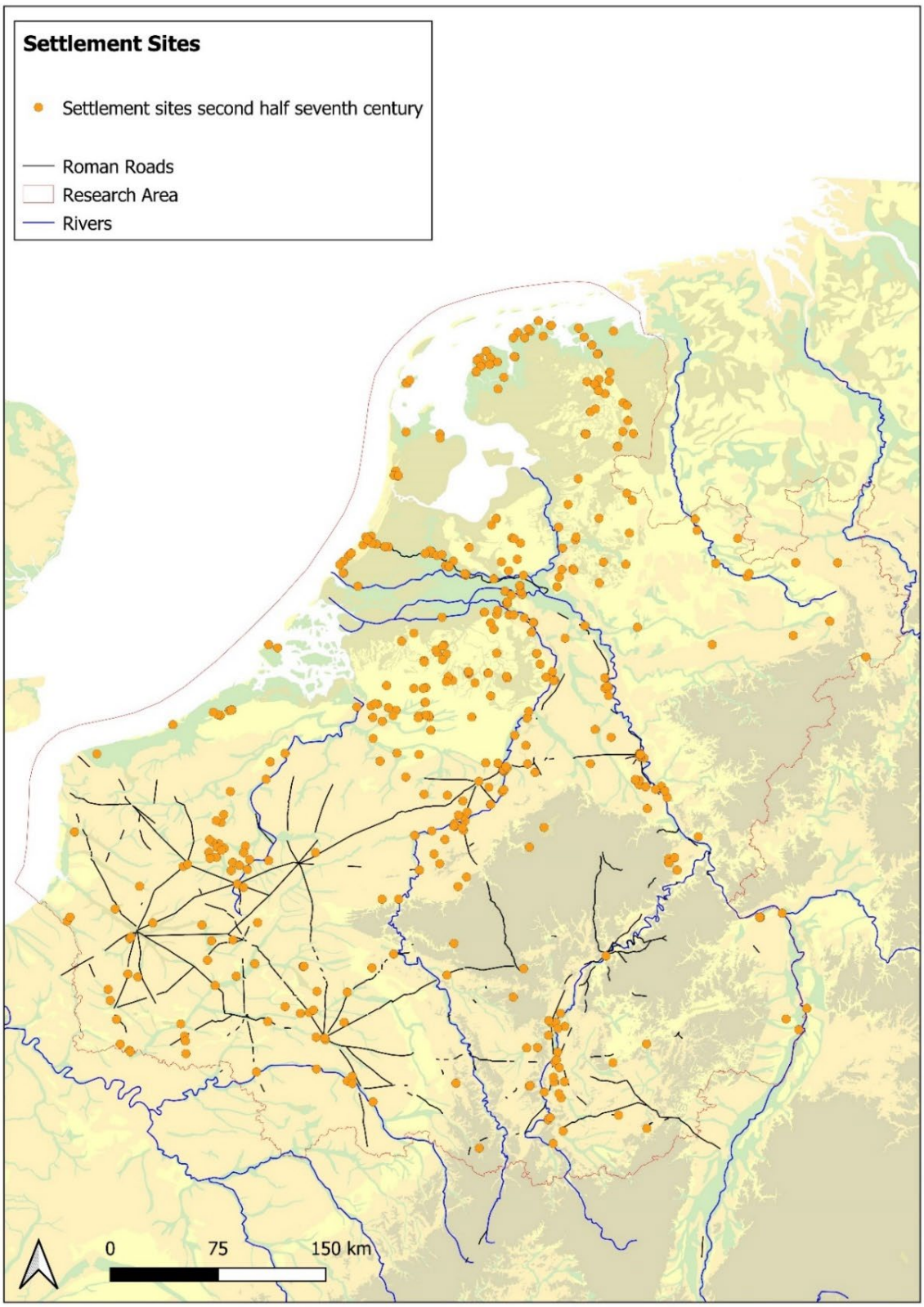

Figure 1.1.2.8 Distribution map of locations of all settlements present during the second half of the seventh century in Northern Gaul. On this map, settlements with an end date after 650 and a start date before 700 are indicated. n = 451 settlements.

Source: www.earlymedievaleurope.org (Online Database ERC Rural Riches).

1.2. Beads

1.2.1 General bead distributions

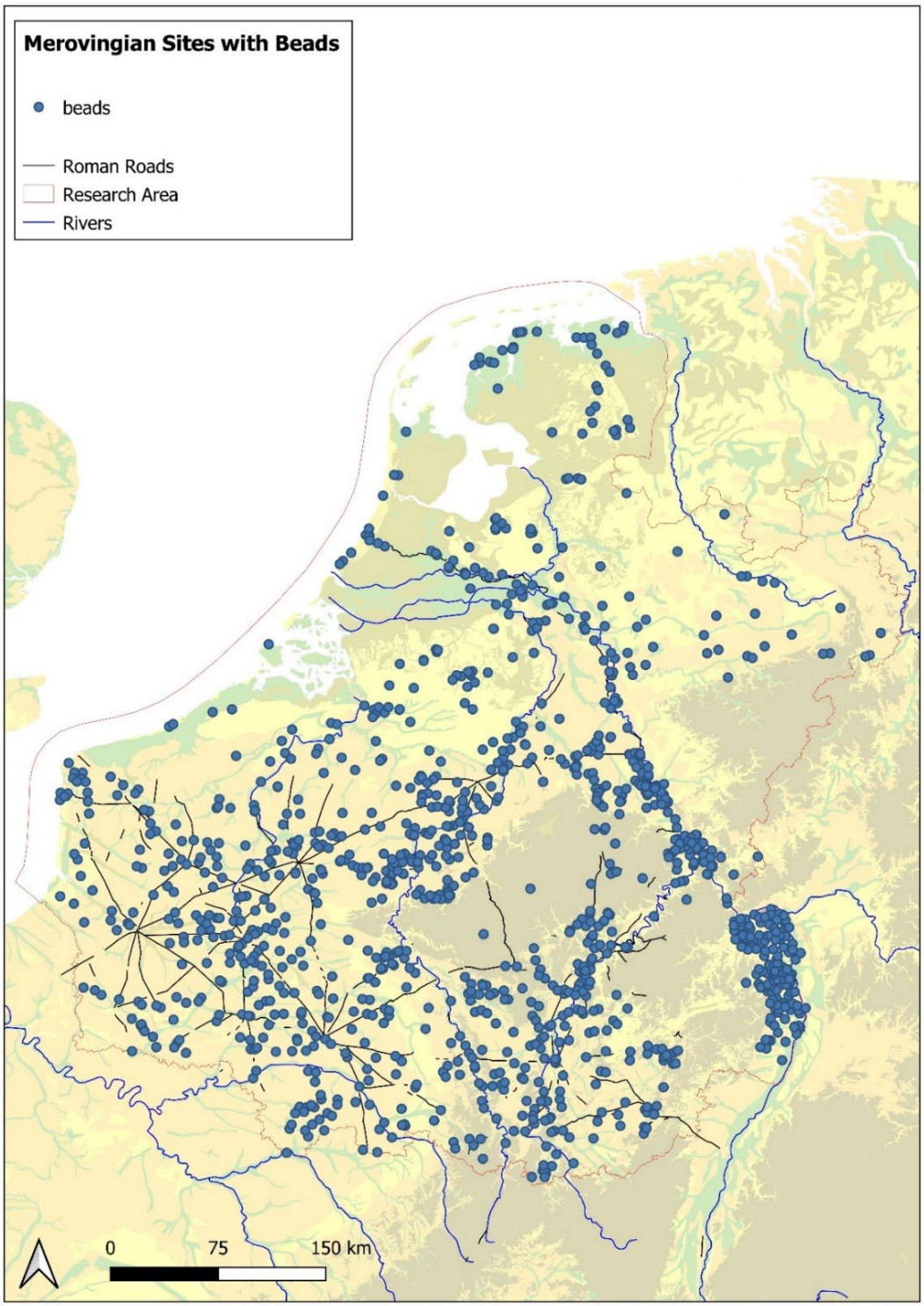

Figure 1.2.1.1 Distribution map of find locations of beads dating to the Merovingian period in Northern Gaul. n = 1303 sites.

Source: www.earlymedievaleurope.org (Online Database ERC Rural Riches).

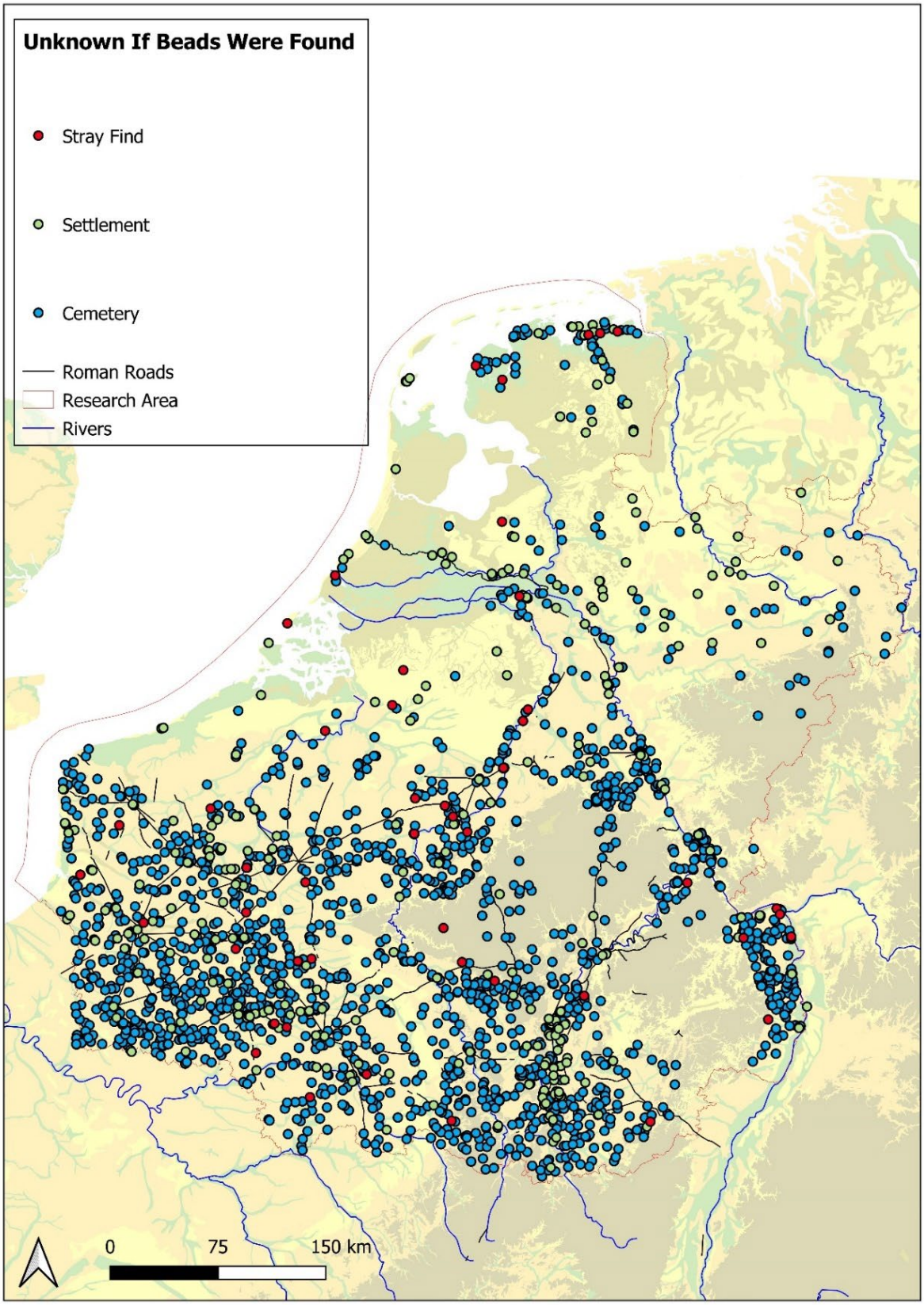

Figure 1.2.1.2 Distribution map of sites of which it is unknown whether beads were found dating to the Merovingian period in Northern Gaul (1892 cemeteries, 300 settlements, 49 stray finds).

Source: www.earlymedievaleurope.org (Online Database ERC Rural Riches).

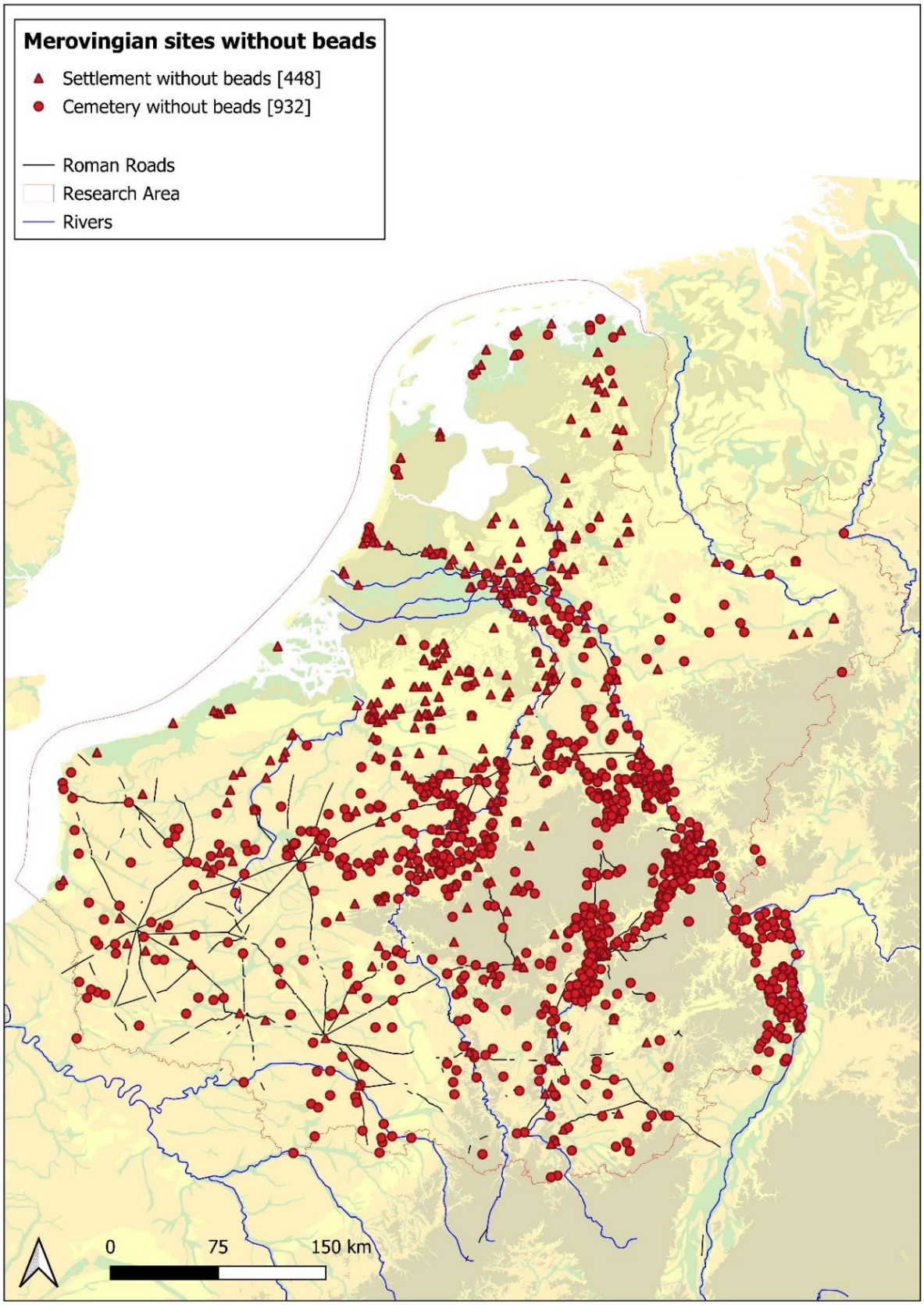

Figure 1.2.1.3 Distribution map of sites on which no beads were found dating to the Merovingian period in Northern Gaul (932 cemeteries, 448 settlements).

Source: www.earlymedievaleurope.org (Online Database ERC Rural Riches).

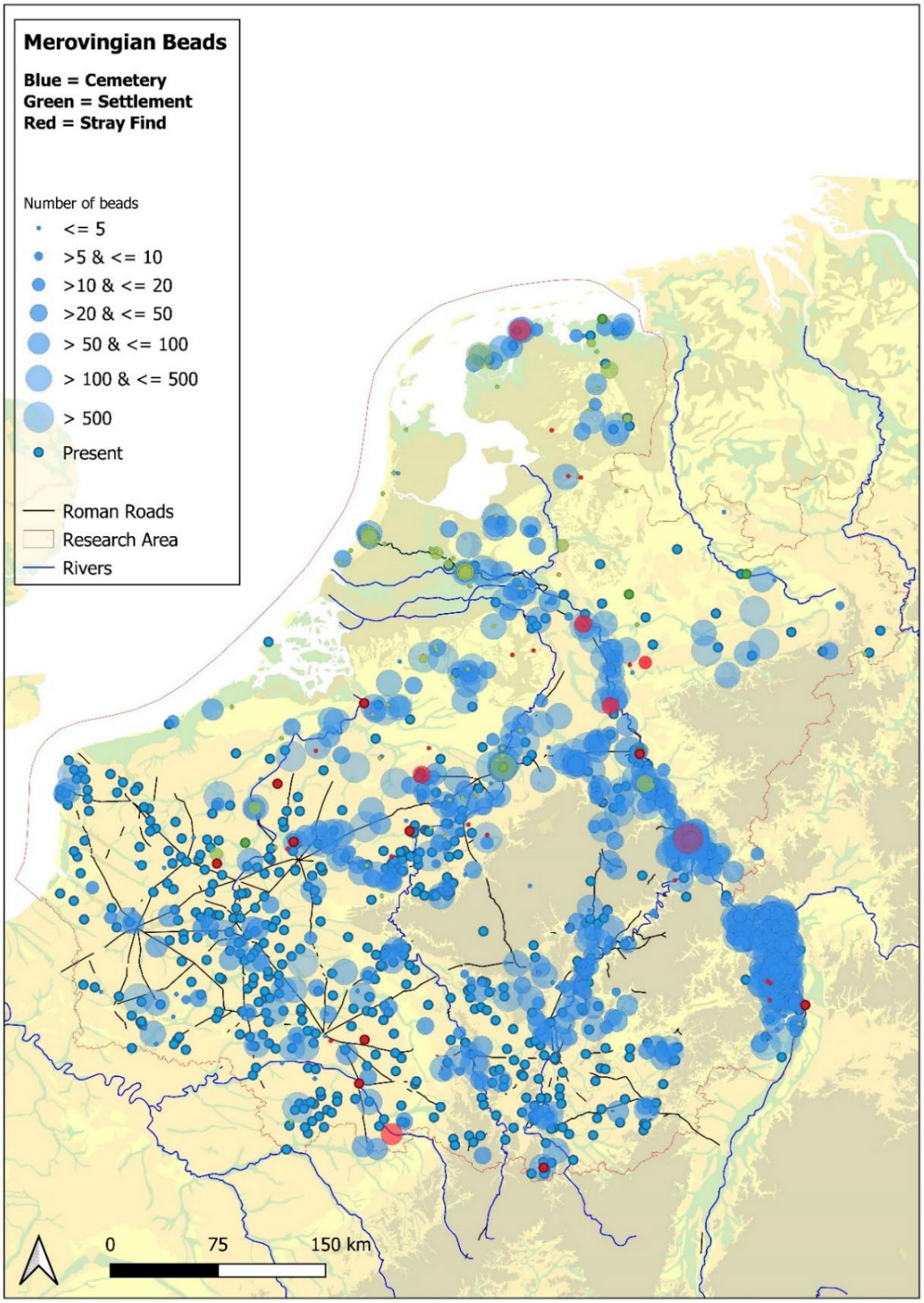

Figure 1.2.1.4 Distribution map of find locations of beads dating to the Merovingian period in Northern Gaul, expressed as amount of beads found (1192 cemeteries (152175 beads), 76 settlements (710 beads), 34 stray finds (895 beads).

Source: www.earlymedievaleurope.org (Online Database ERC Rural Riches).

1.2.2 Settlement Beads

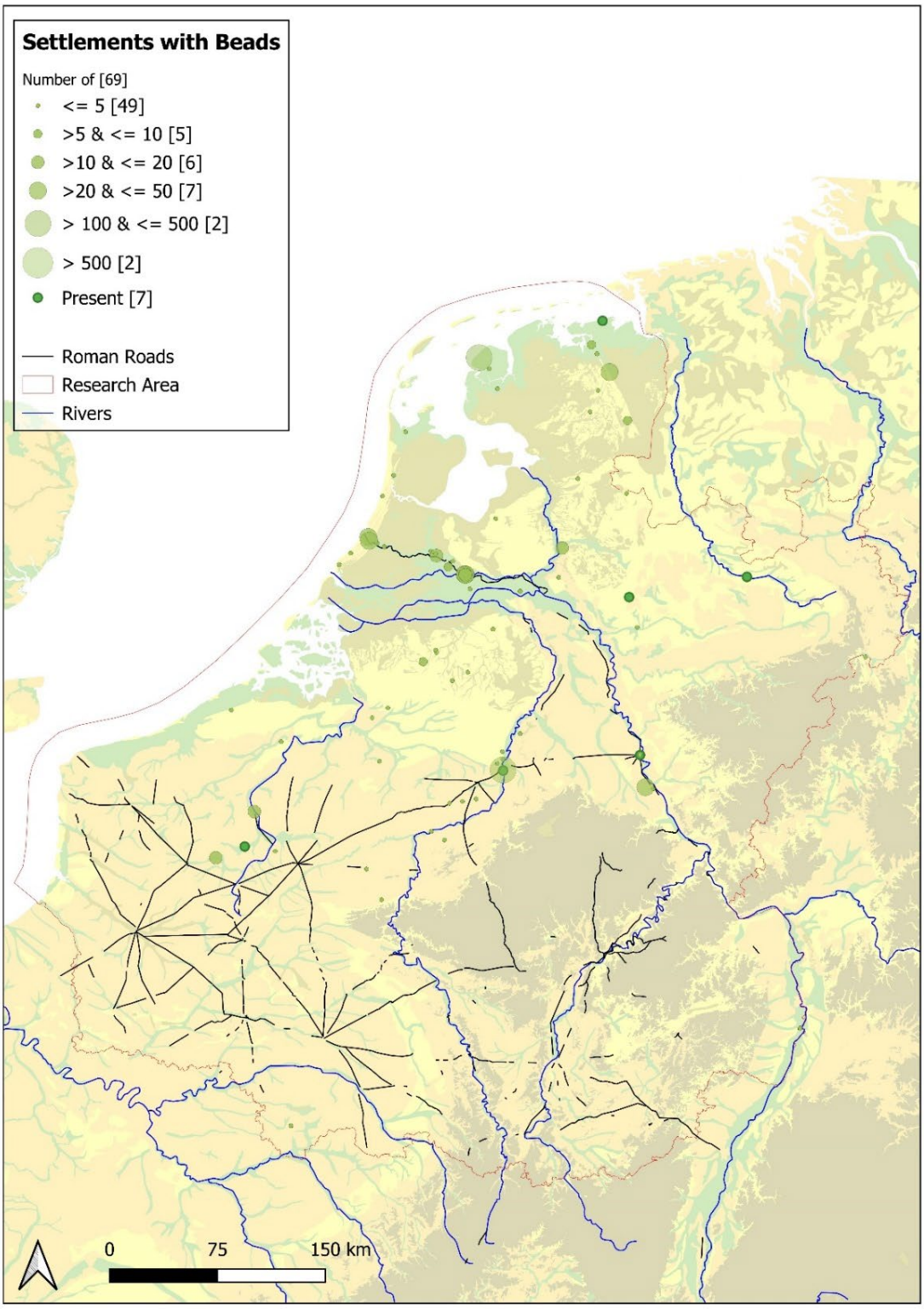

Figure 1.2.2.1 Distribution map of settlements on which beads were found dating to the Merovingian period in Northern Gaul, expressed as amount of beads found (76 settlements, 710 beads from 69 settlements and 7 settlements with beads 'present' but unknown amount)

Source: www.earlymedievaleurope.org (Online Database ERC Rural Riches).

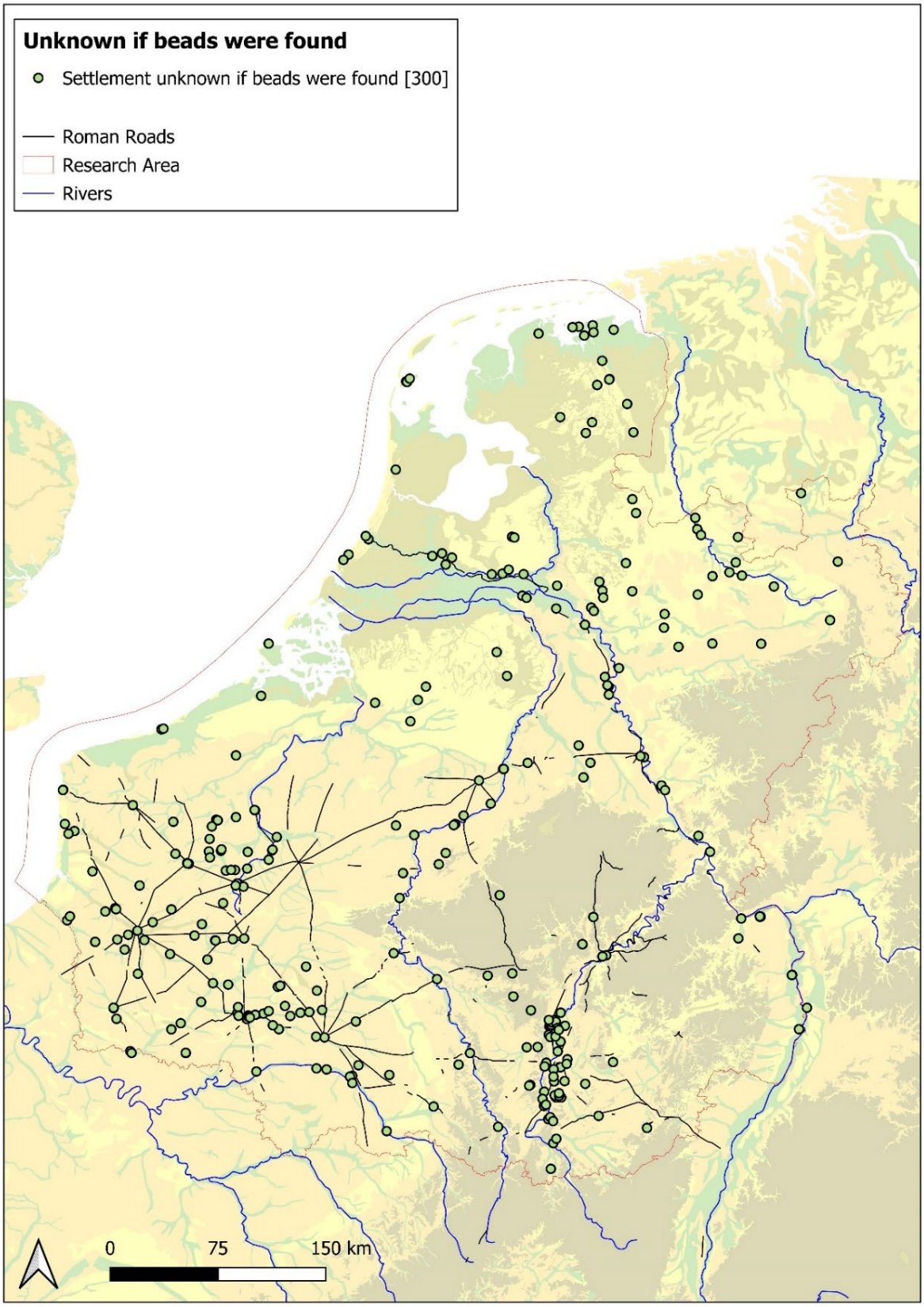

Figure 1.2.2.2 Distribution map of settlements of which it is unknown whether beads were found dating to the Merovingian period in Northern Gaul (300 settlements)

Source: www.earlymedievaleurope.org (Online Database ERC Rural Riches).

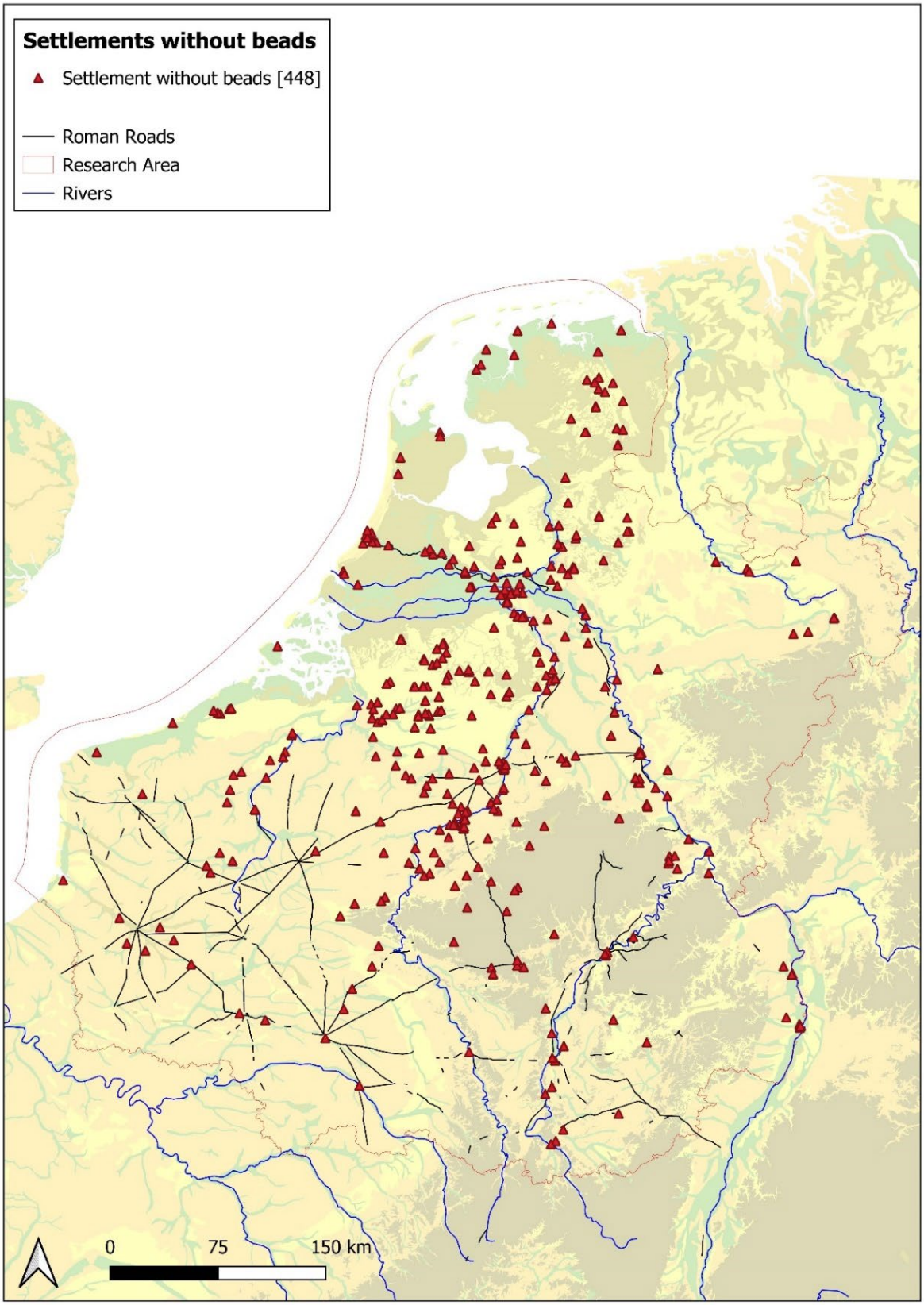

Figure 1.2.2.3 Distribution map of settlements on which no beads were found dating to the Merovingian period in Northern Gaul (448 settlements)

Source: www.earlymedievaleurope.org (Online Database ERC Rural Riches).

1.2.3 Cemetery Beads

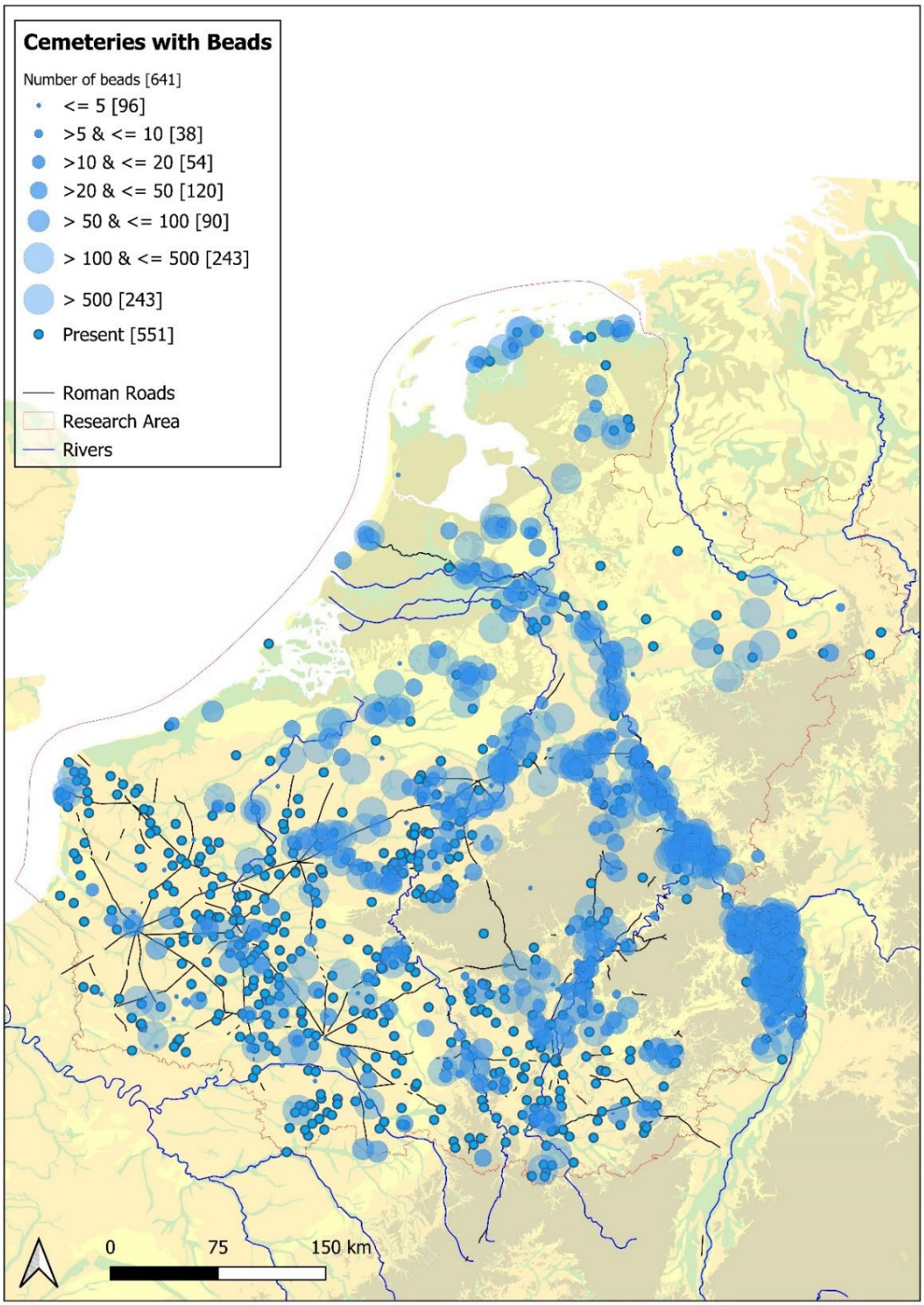

Figure 1.2.3.1 Distribution map of cemeteries in which beads were found dating to the Merovingian period in Northern Gaul, expressed as amount of beads found (1192 cemeteries, **152175** beads from 641 sites and 551 cemeteries with beads 'present' but unknown amount)

Source: www.earlymedievaleurope.org (Online Database ERC Rural Riches).

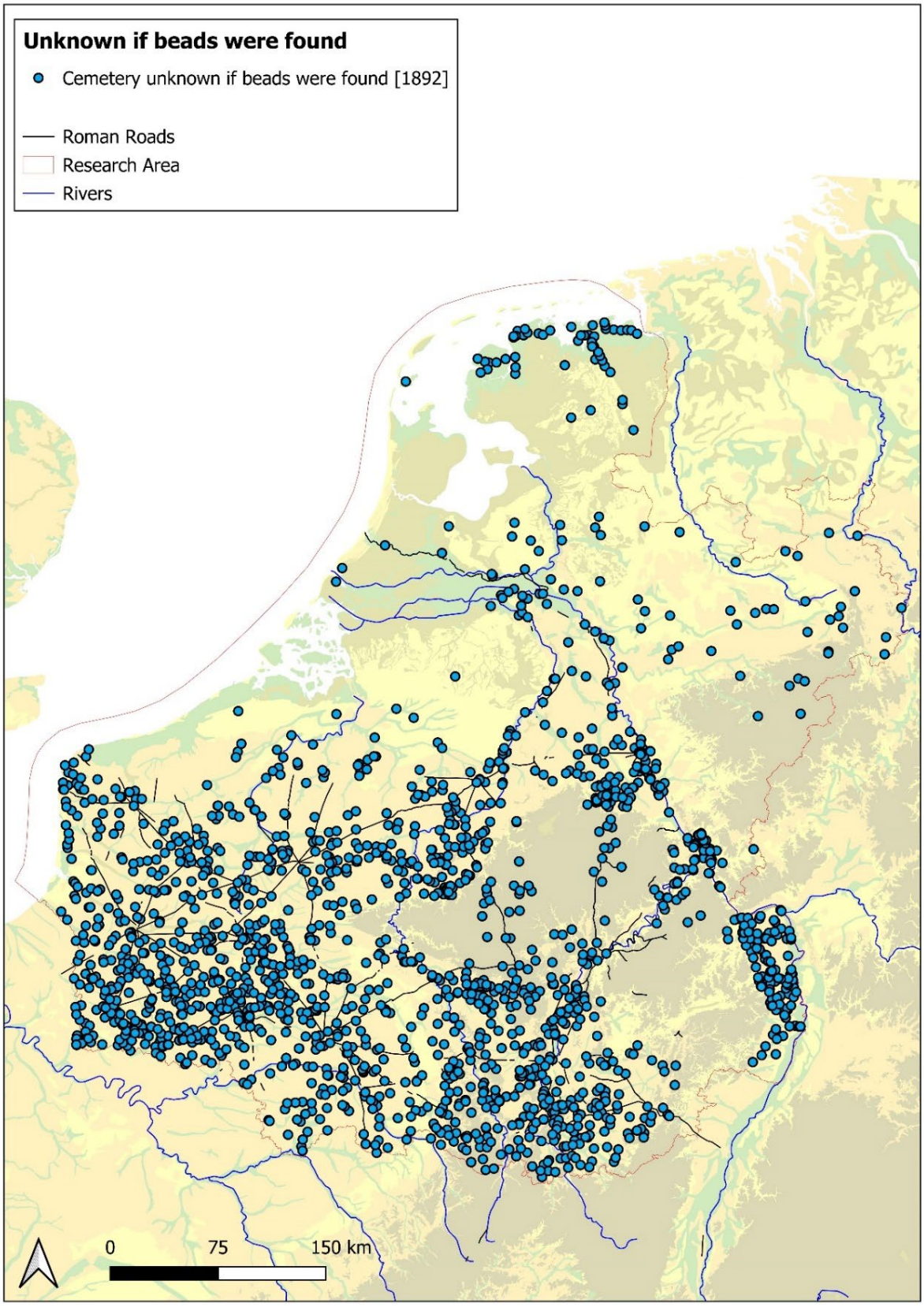

Figure 1.2.3.2 Distribution map of cemeteries of which it is unknown whether beads were found dating to the Merovingian period in Northern Gaul (1892 cemeteries)

Source: www.earlymedievaleurope.org (Online Database ERC Rural Riches).

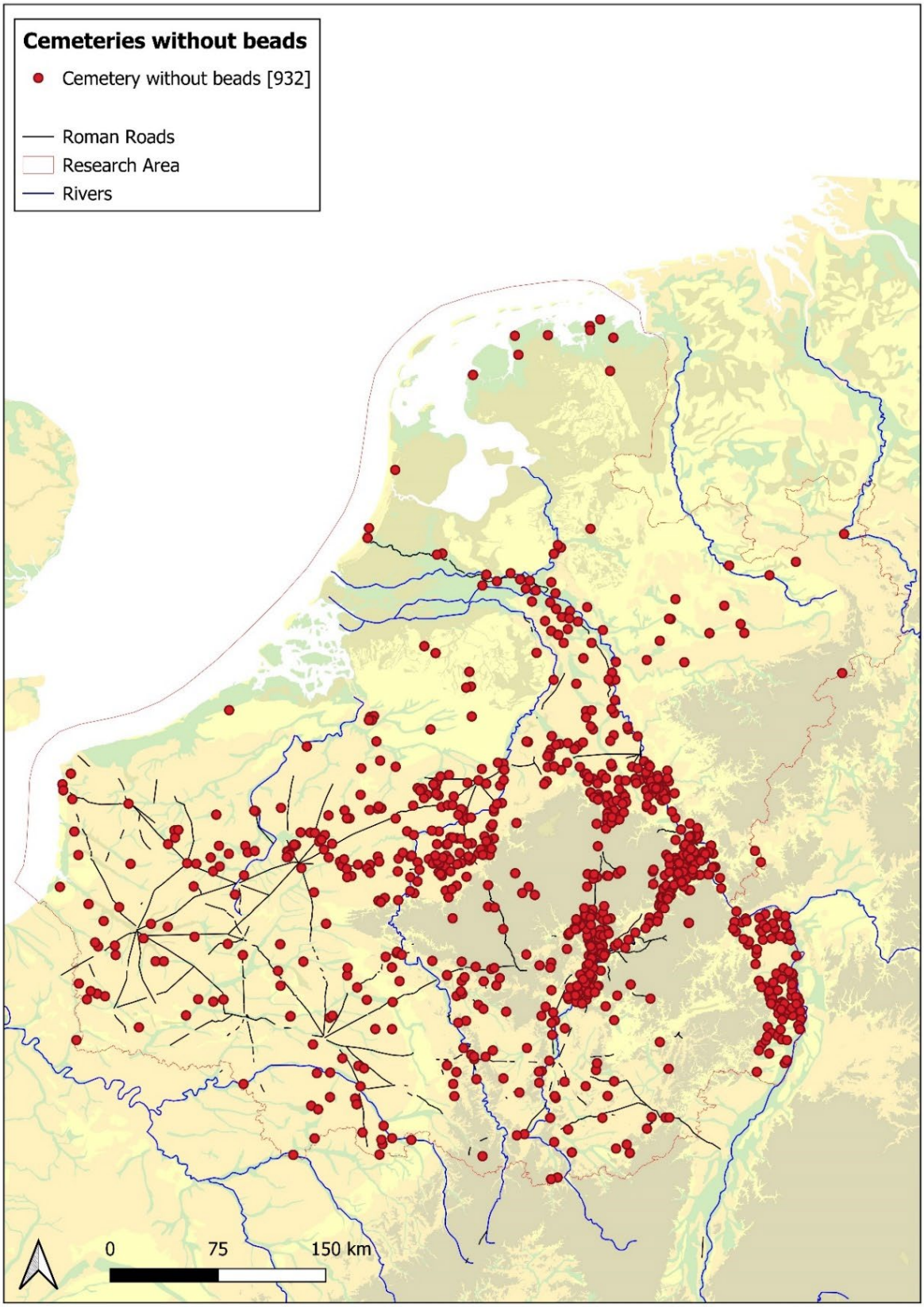

Figure 1.2.3.3 Distribution map of cemeteries in which no beads were found dating to the Merovingian period in Northern Gaul.

Source: www.earlymedievaleurope.org (Online Database ERC Rural Riches).

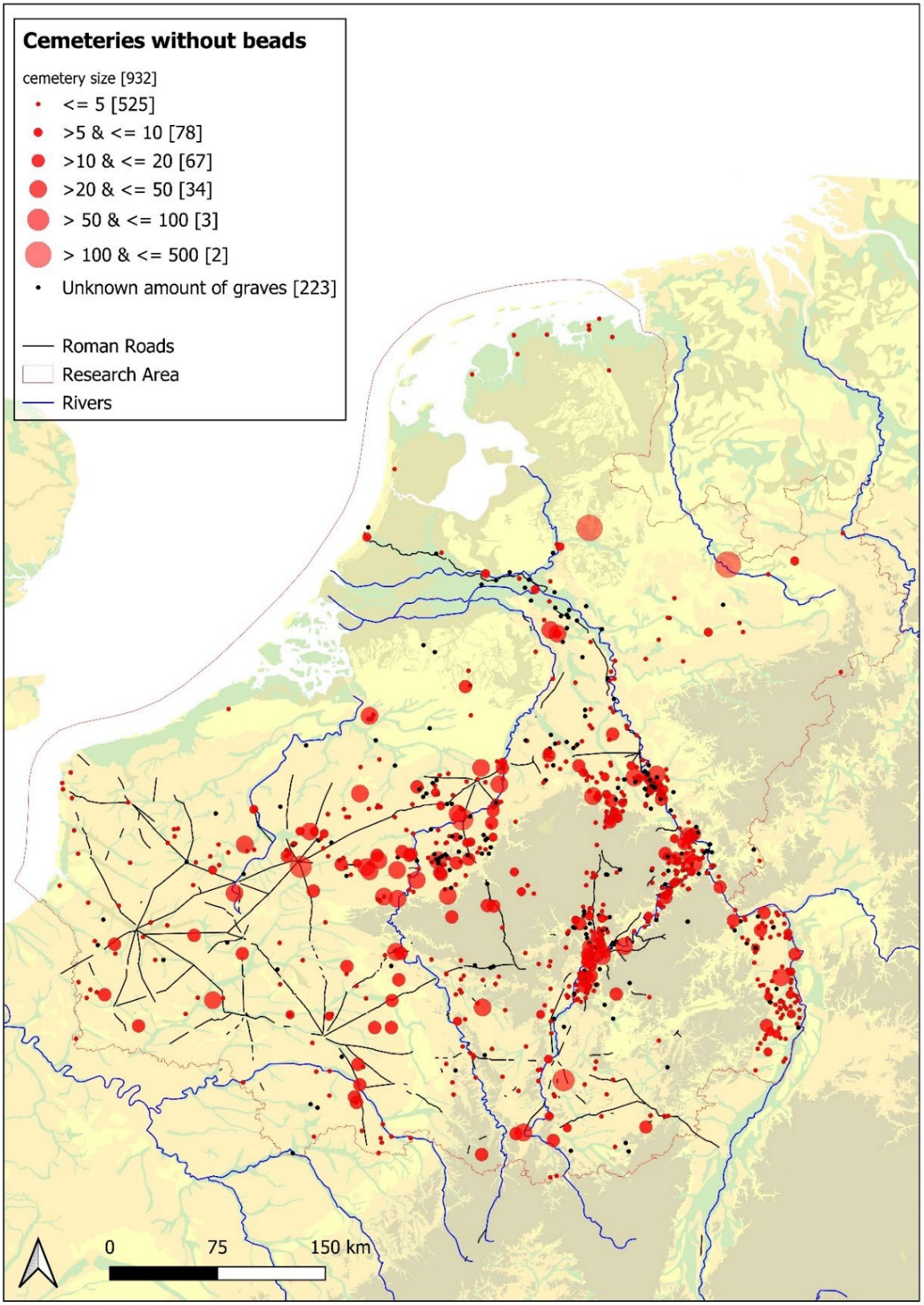

Figure 1.2.3.4 Distribution map of cemeteries in which no beads were found dating to the Merovingian period in Northern Gaul, expressed as number of human graves (932 cemeteries). Cemeteries without beads are quite small: 6 graves on average.

Source: www.earlymedievaleurope.org (Online Database ERC Rural Riches).

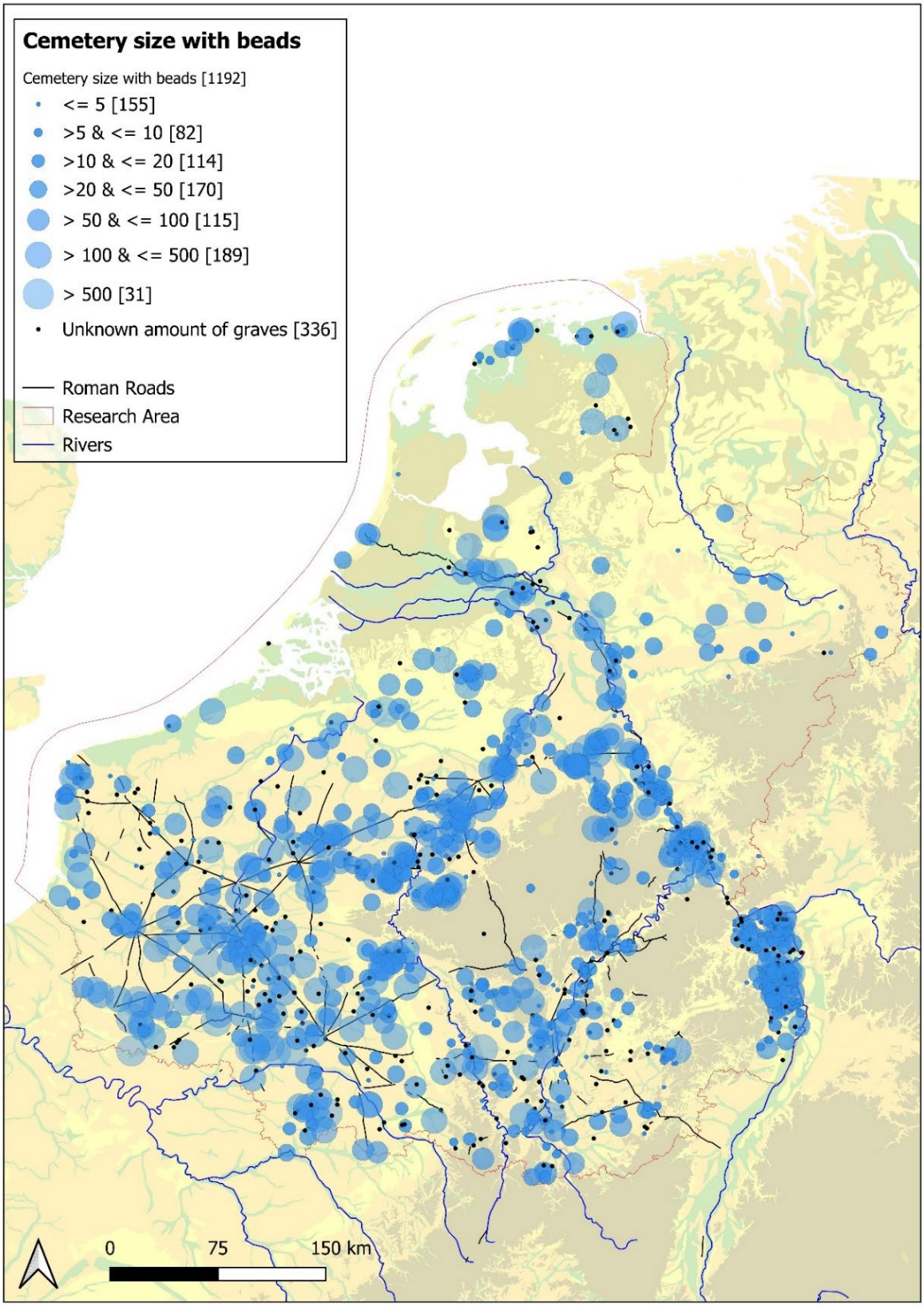

Figure 1.2.3.5 Distribution map of cemeteries in which beads were found dating to the Merovingian period in Northern Gaul, expressed as number of human graves (n = 1192 cemeteries). Cemeteries with Beads are large: 112 graves on average.

Source: www.earlymedievaleurope.org (Online Database ERC Rural Riches).

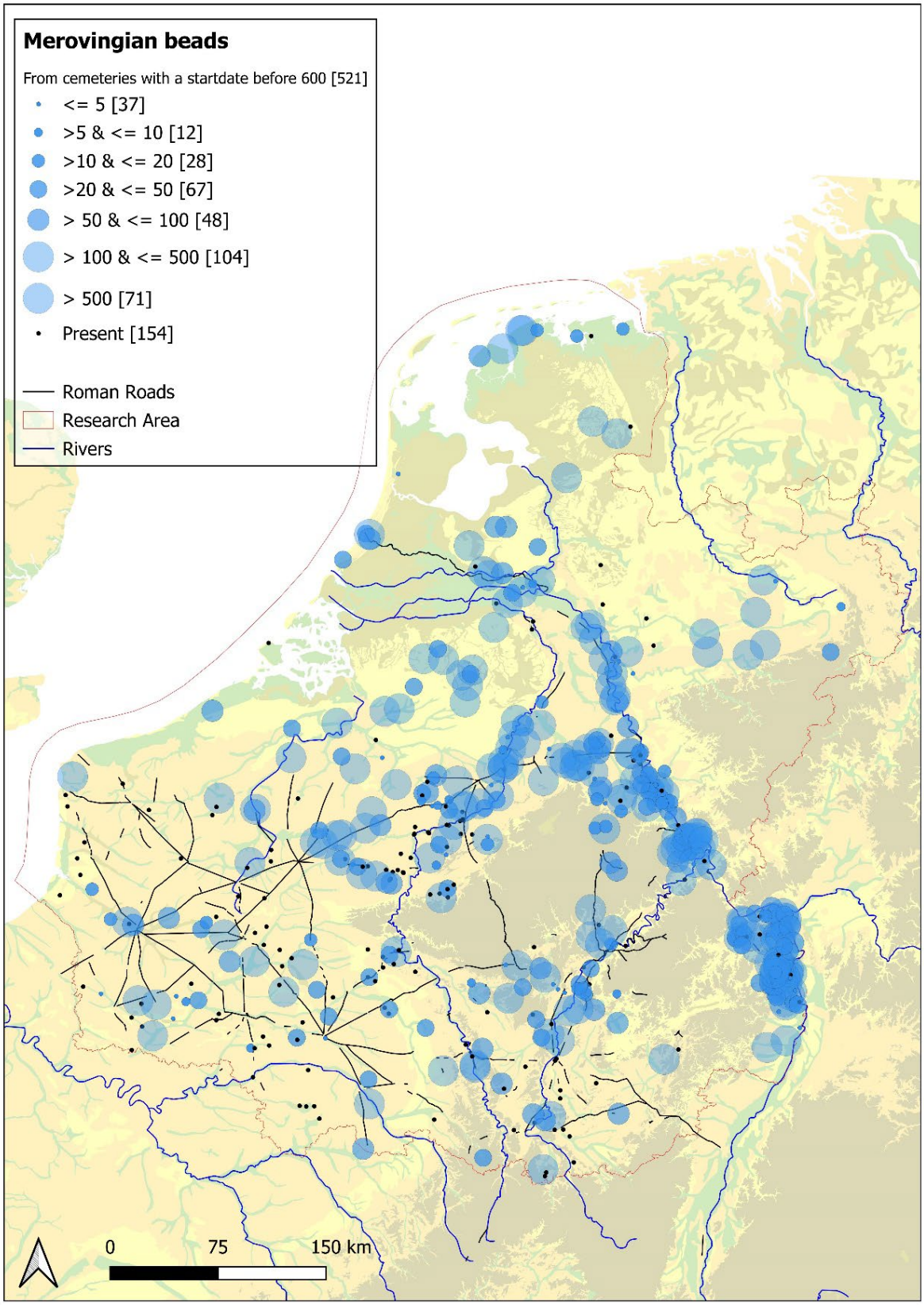

Figure 1.2.3.6 Distribution map of cemeteries with beads with a start date before 600 in Northern Gaul, expressed in numbers of beads.

Source: www.earlymedievaleurope.org (Online Database ERC Rural Riches).

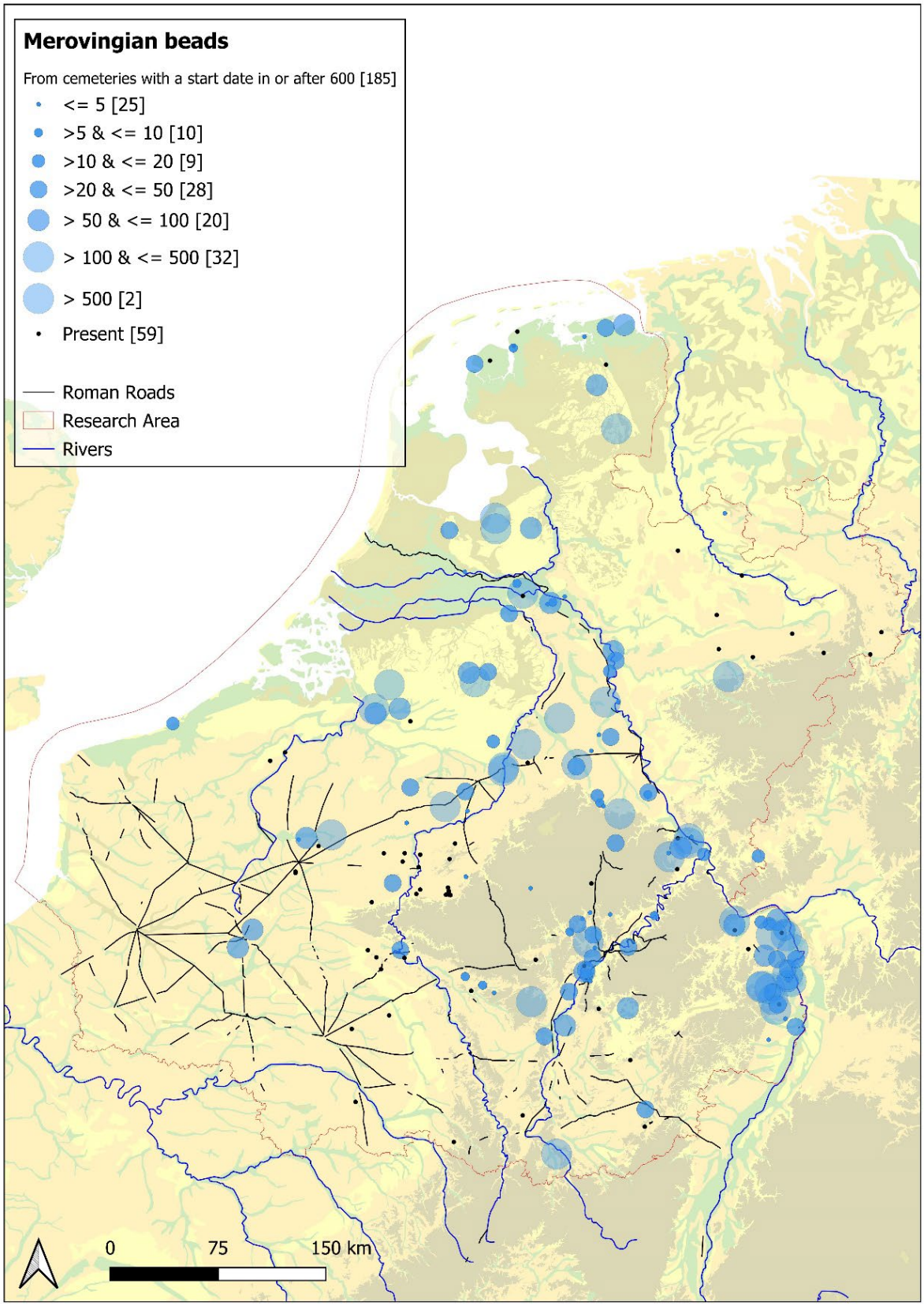

Figure 1.2.3.7 Distribution map of cemeteries with beads with a start date in or after 600 in Northern Gaul, expressed in numbers of beads.

Source: www.earlymedievaleurope.org (Online Database ERC Rural Riches).

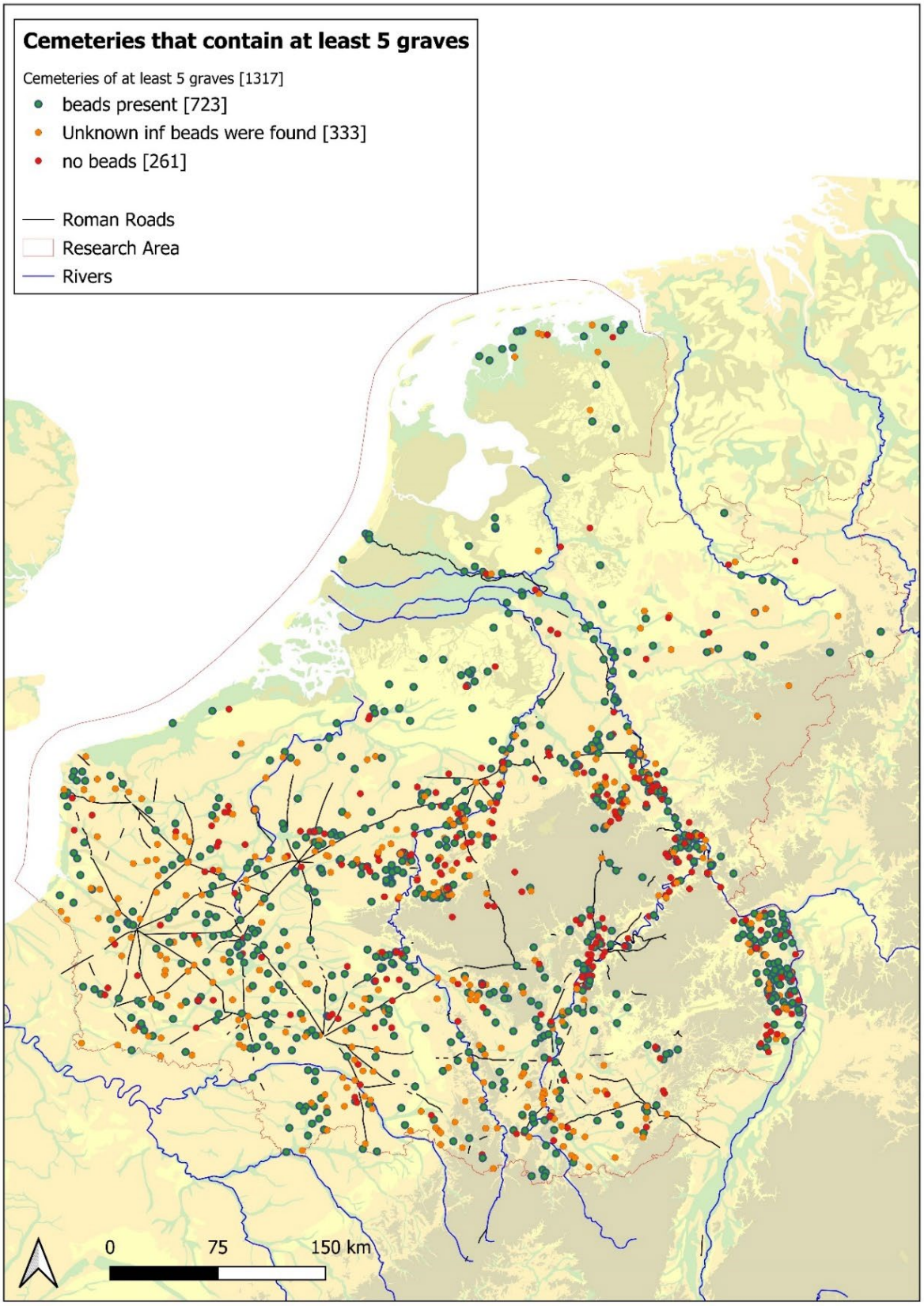

Figure 1.2.3.8 Distribution map of cemeteries that contain at least five graves, expressed as the occurrence of beads per site.

Source: www.earlymedievaleurope.org (Online Database ERC Rural Riches).

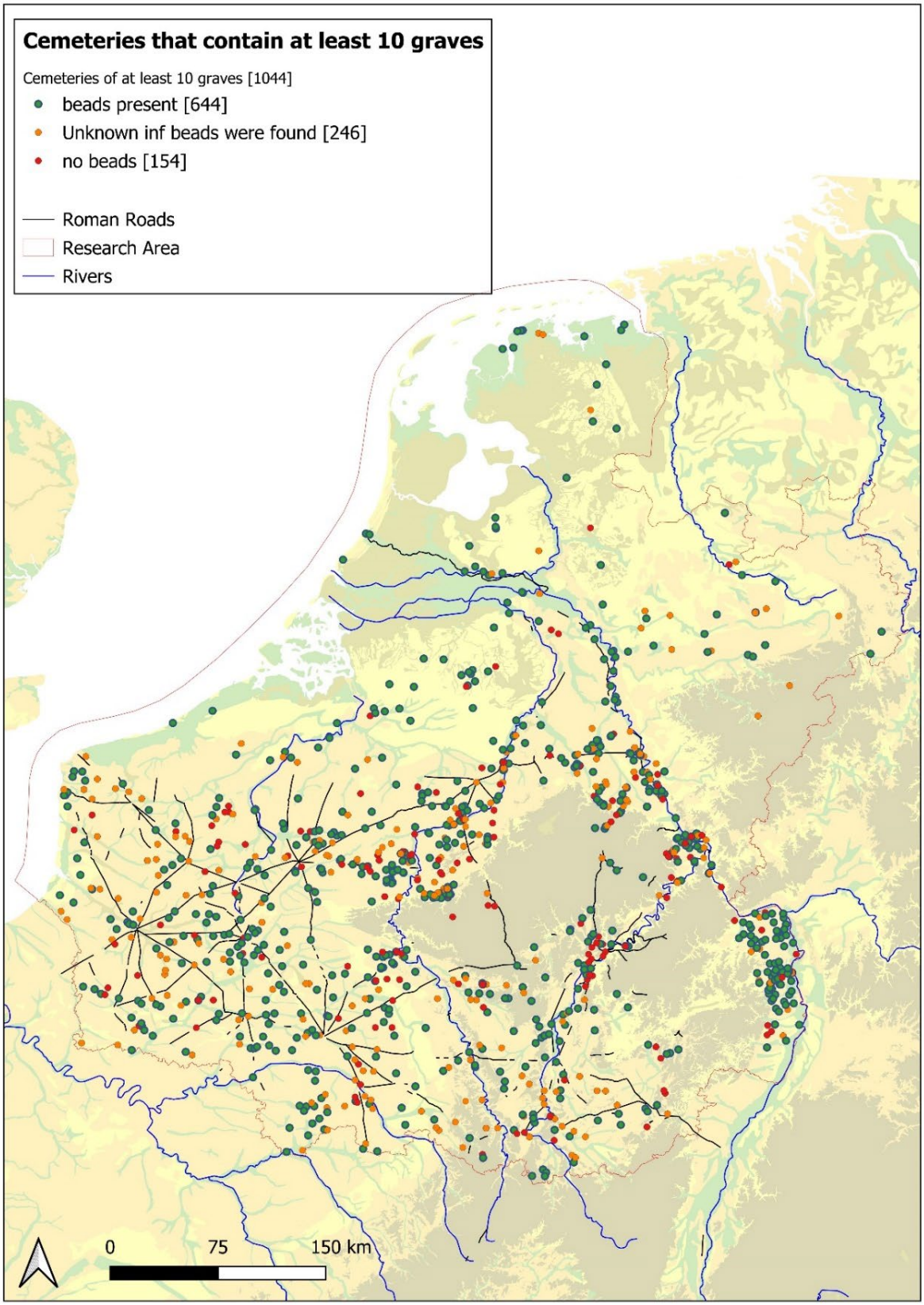

Figure 1.2.3.9 Distribution map of cemeteries that contain at least ten graves, expressed as the occurrence of beads per site.

Source: www.earlymedievaleurope.org (Online Database ERC Rural Riches).

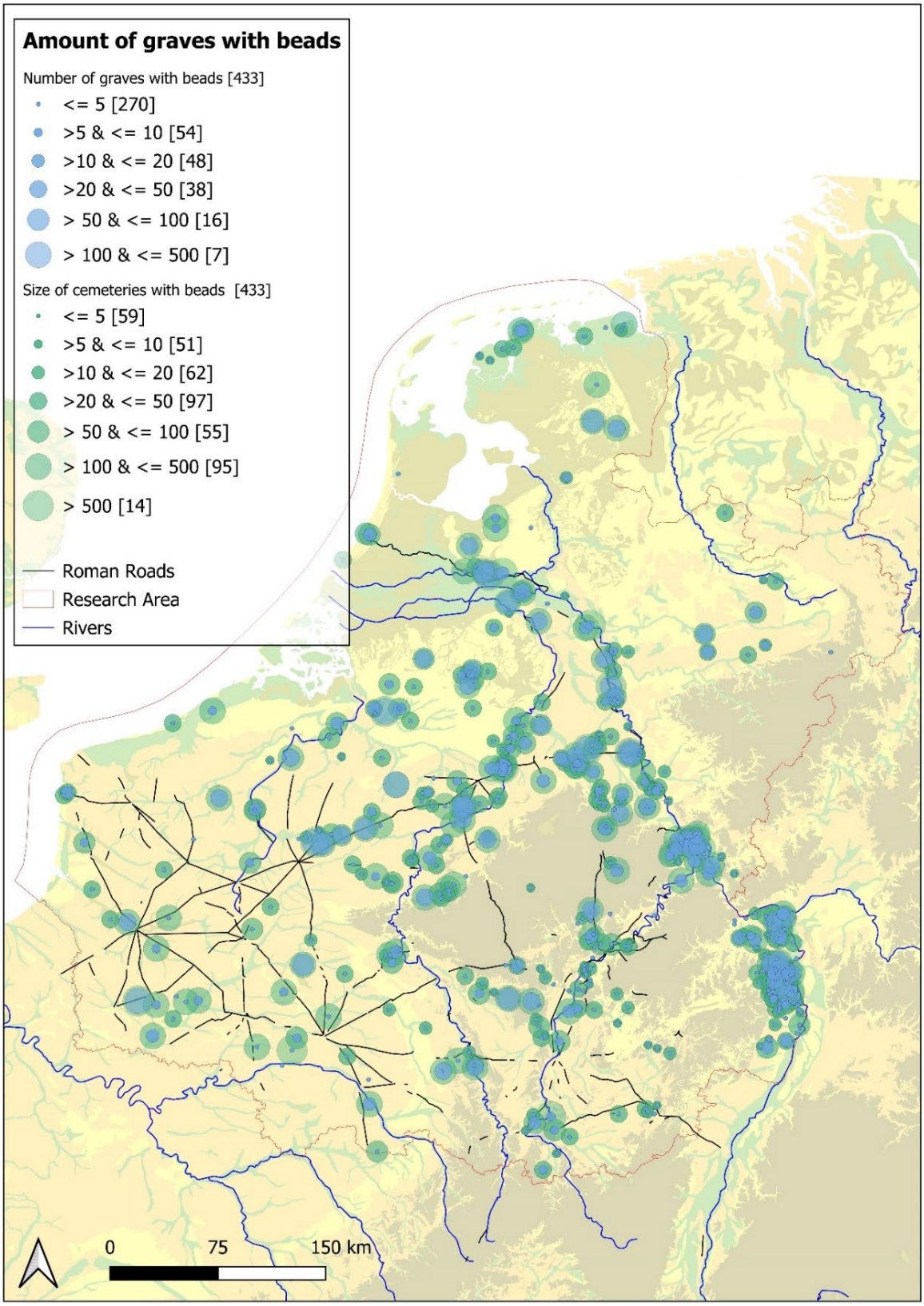

Figure 1.2.3.10. Distribution map of cemeteries with beads of which we know both the amount of graves (green) and amount of bead graves (blue) (n = 433 cemeteries).

Source: www.earlymedievaleurope.org (Online Database ERC Rural Riches).

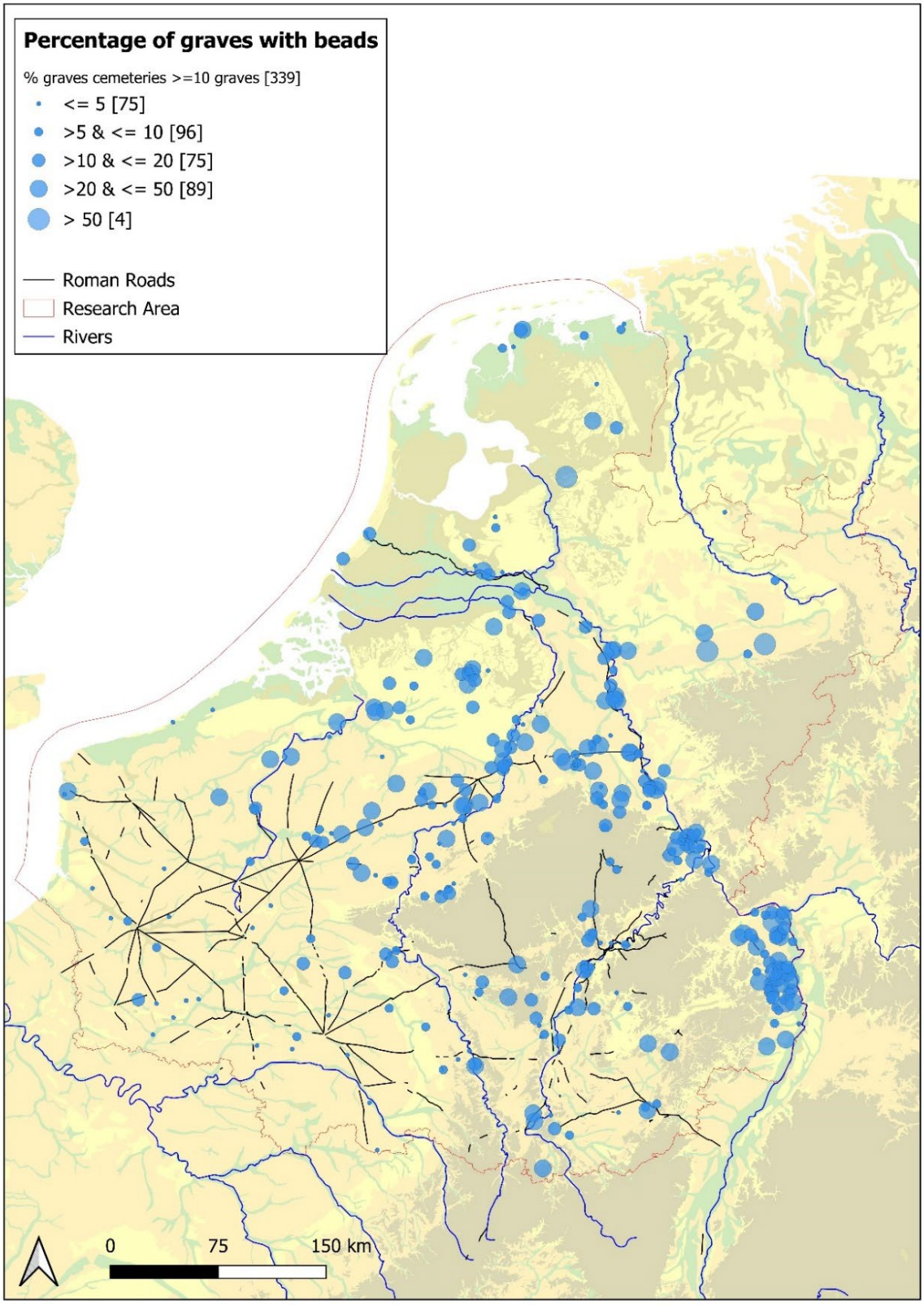

Figure 1.2.3.11. Distribution map of cemeteries of 10 graves or more with beads of which we know both the amount of graves and amount of bead graves, expressed as the percentage of graves with beads (n = 339 cemeteries).

Source: www.earlymedievaleurope.org (Online Database ERC Rural Riches).

1.3 Amber Beads

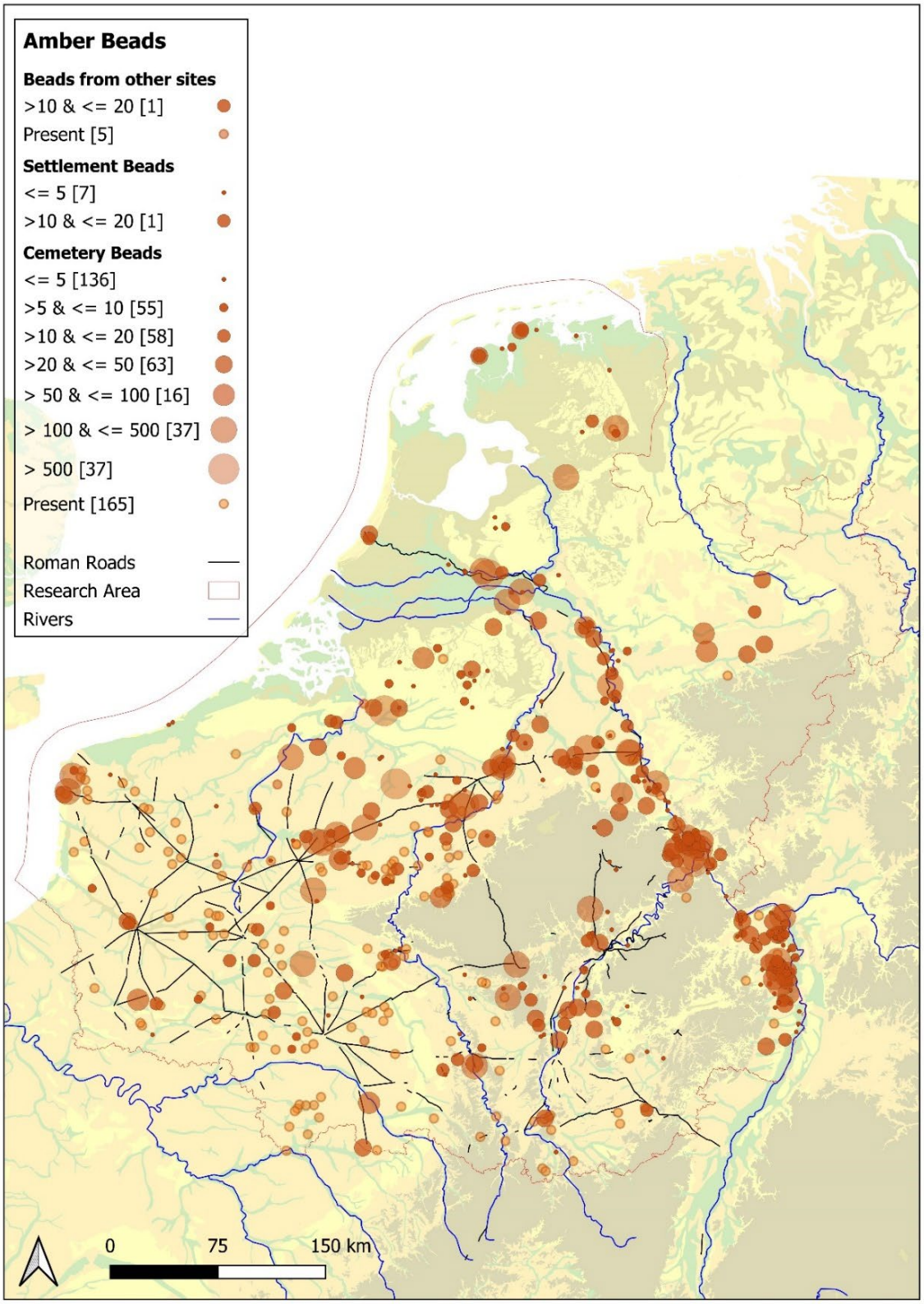

Figure 1.3.1 Distribution map of sites with amber beads, expressed as amounts of amber beads.

Source: www.earlymedievaleurope.org (Online Database ERC Rural Riches).

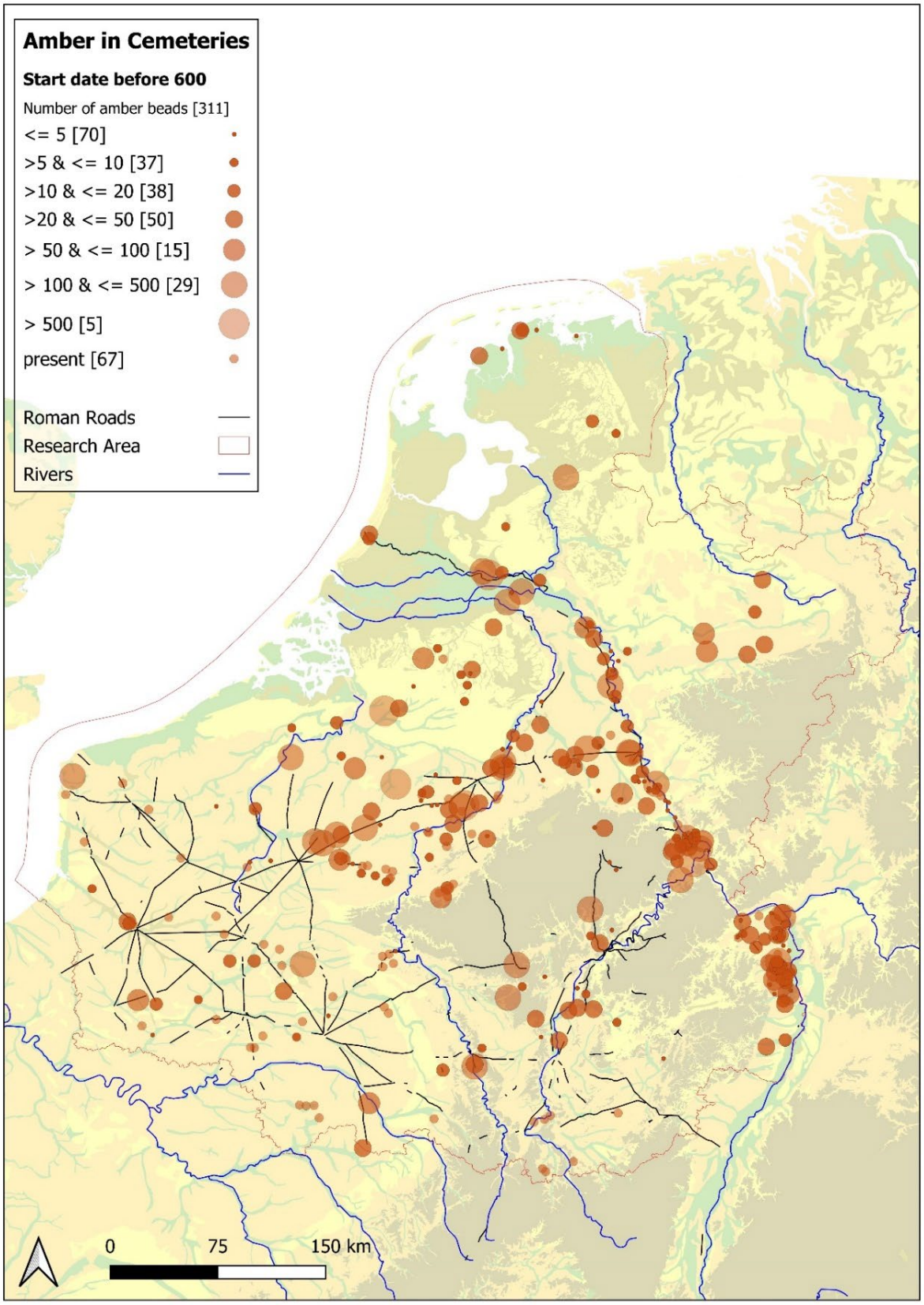

Figure 1.3.2 Distribution map of cemeteries with amber beads that have a start date before the year 600, expressed as amounts of amber beads.

Source: www.earlymedievaleurope.org (Online Database ERC Rural Riches).

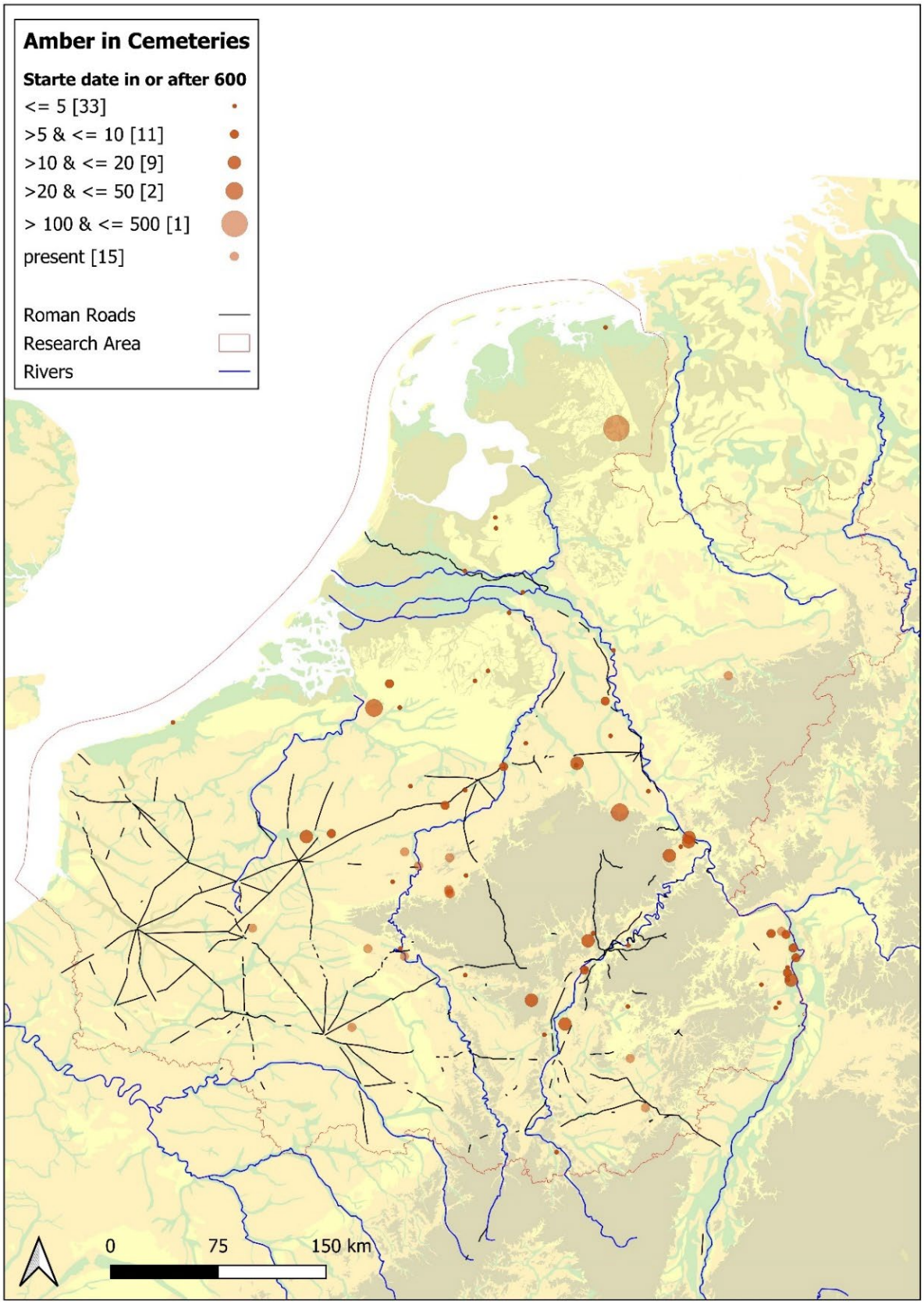

Figure 1.3.3 Distribution map of cemeteries with amber beads that have a start date in or after the year 600, expressed as amounts of amber beads.

Source: www.earlymedievaleurope.org (Online Database ERC Rural Riches).

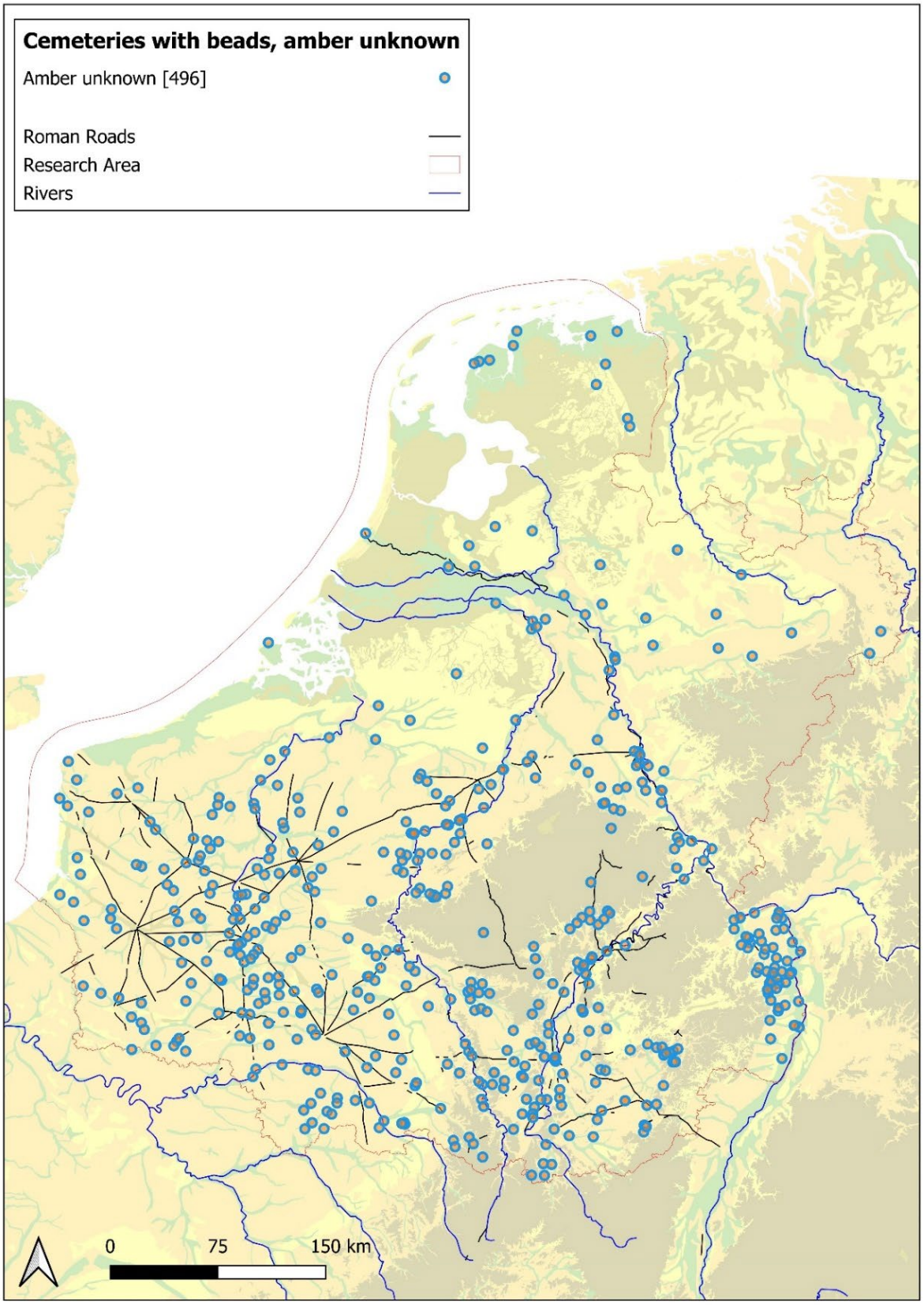

Figure 1.3.4 Distribution map of cemeteries with beads, of which it is unknown whether amber beads were found.

Source: www.earlymedievaleurope.org (Online Database ERC Rural Riches).

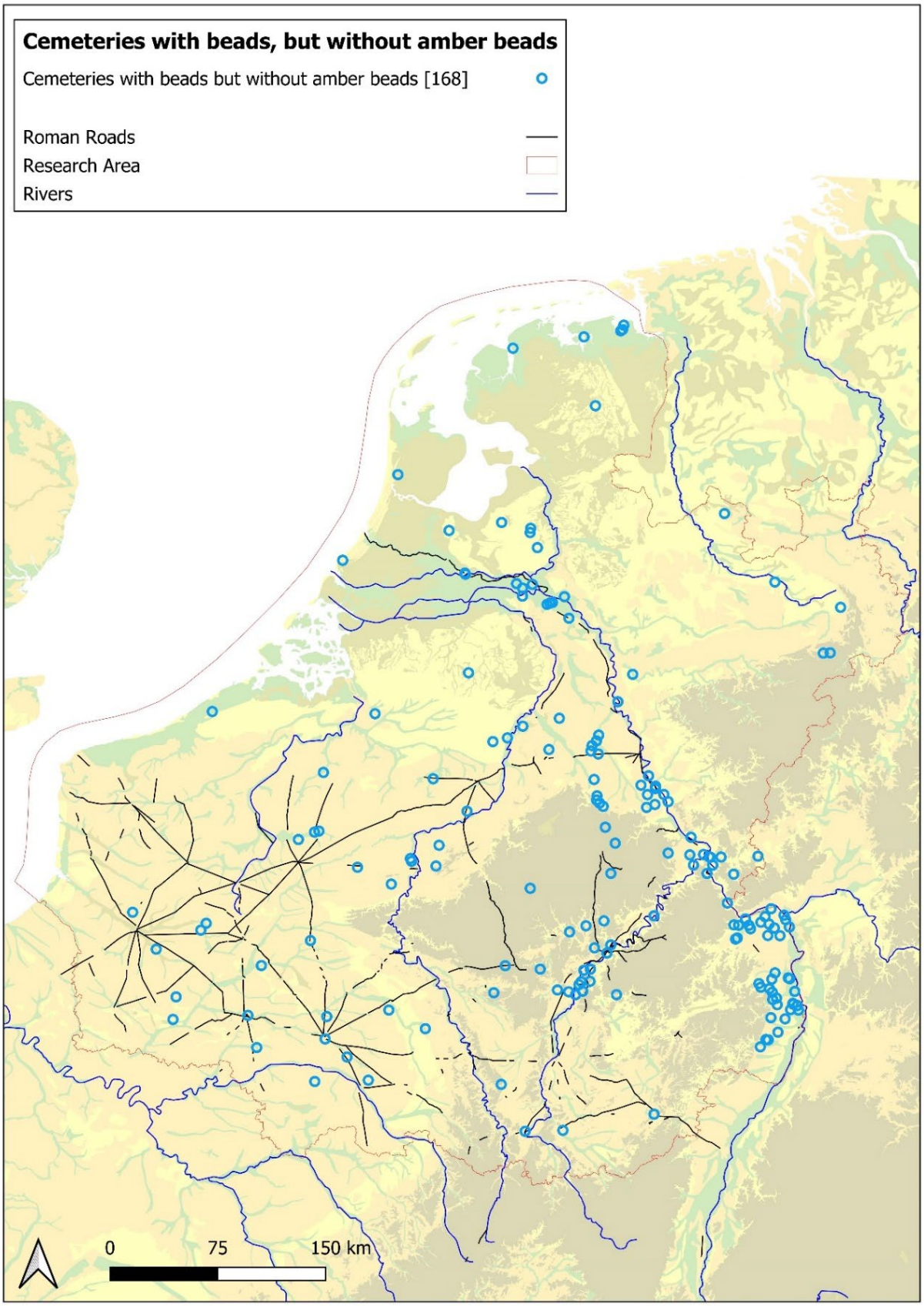

Figure 1.3.5 Distribution map of cemeteries with beads, in which no amber beads were excavated.

Source: www.earlymedievaleurope.org (Online Database ERC Rural Riches).

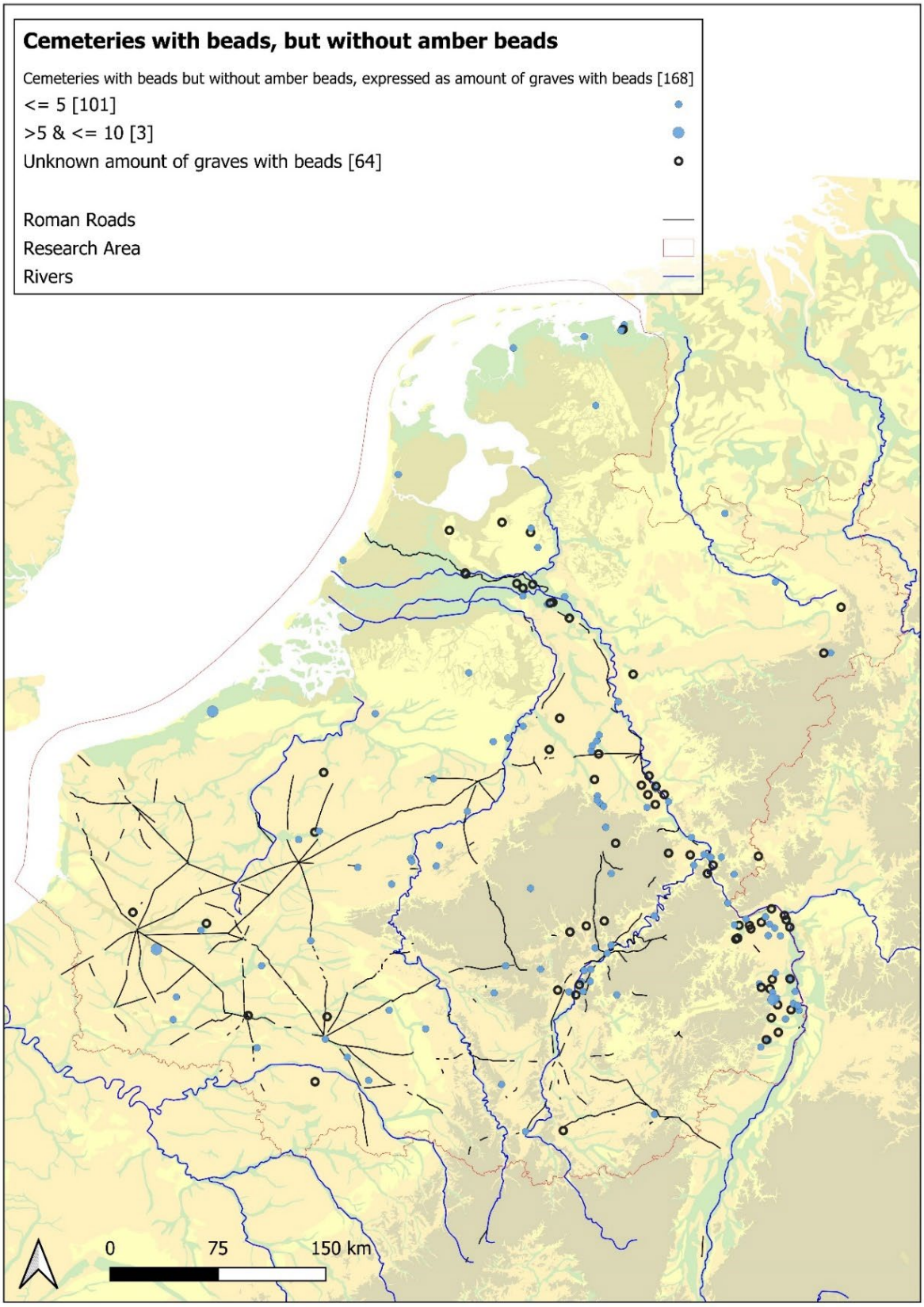

Figure 1.3.6 Distribution map of cemeteries with beads, in which no amber beads were excavated, expressed as the amount of graves with beads in those cemeteries.

Source: www.earlymedievaleurope.org (Online Database ERC Rural Riches).

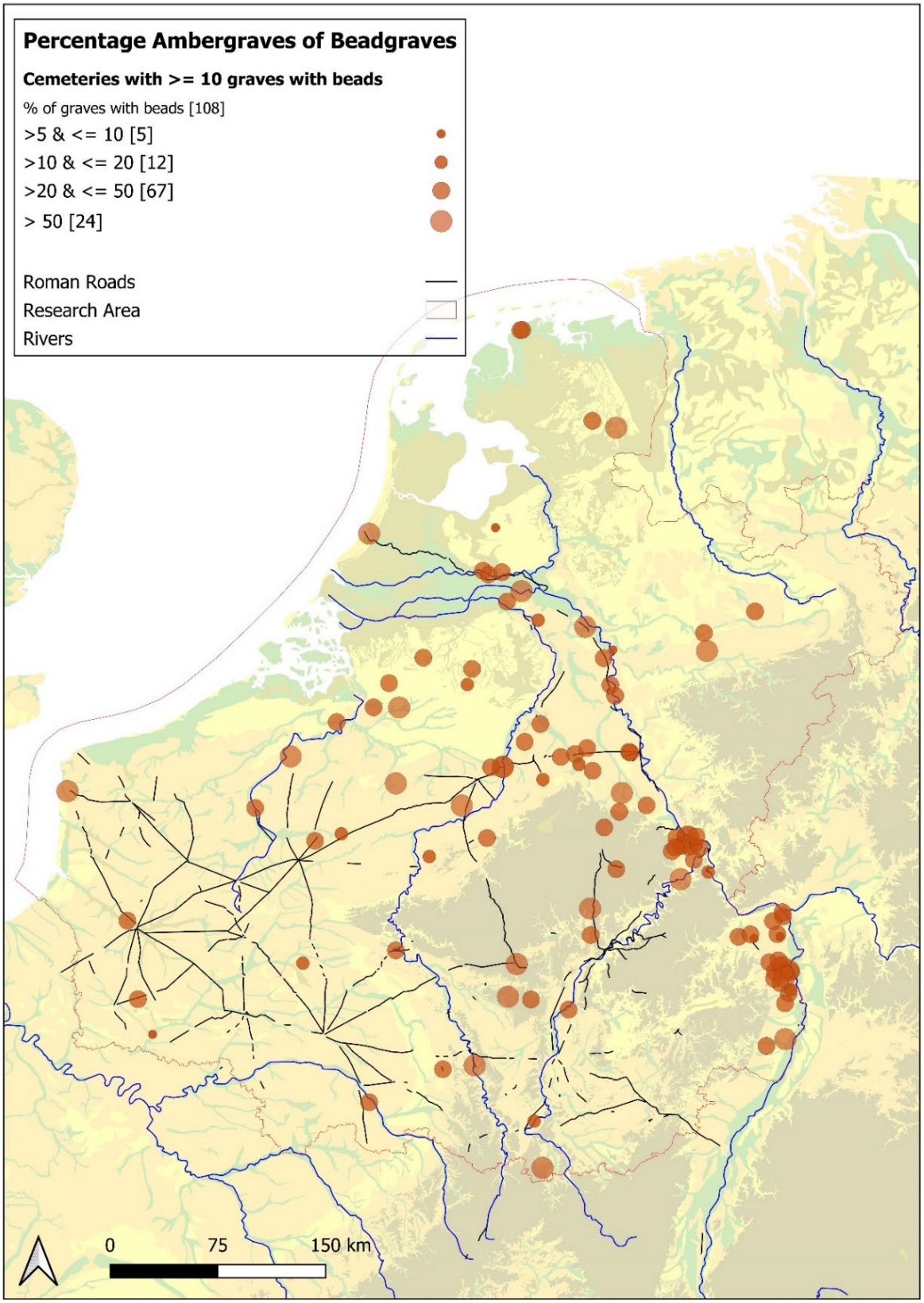

Figure 1.3.7 Distribution map of cemeteries with amber beads, expressed as the percentage of graves with amber beads of the total amount graves with beads excavated in those cemeteries.

Source: www.earlymedievaleurope.org (Online Database ERC Rural Riches).

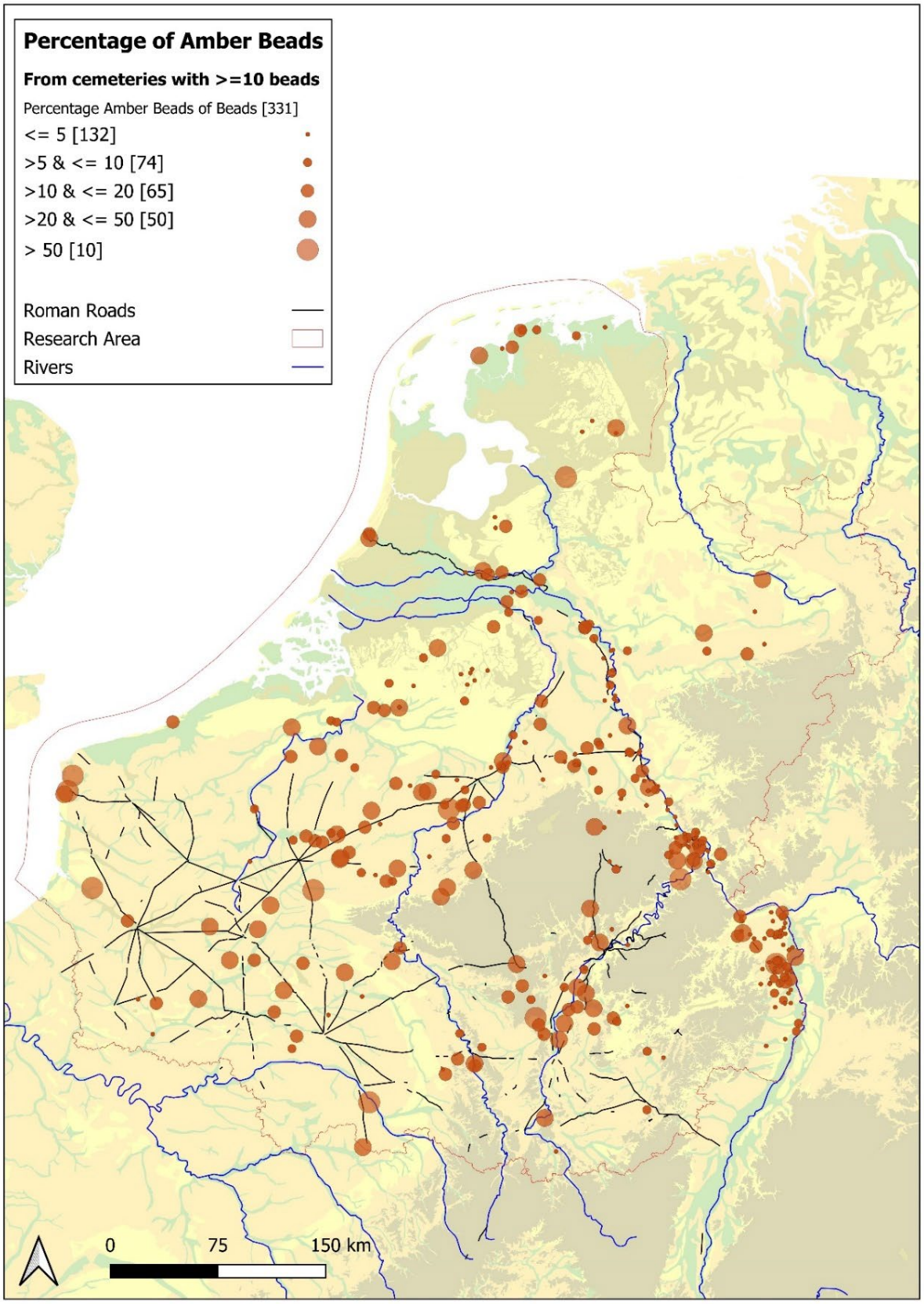

Figure 1.3.8 Distribution map of cemeteries with amber beads, expressed as the percentage of the total amount of beads excavated in those cemeteries.

Source: www.earlymedievaleurope.org (Online Database ERC Rural Riches).

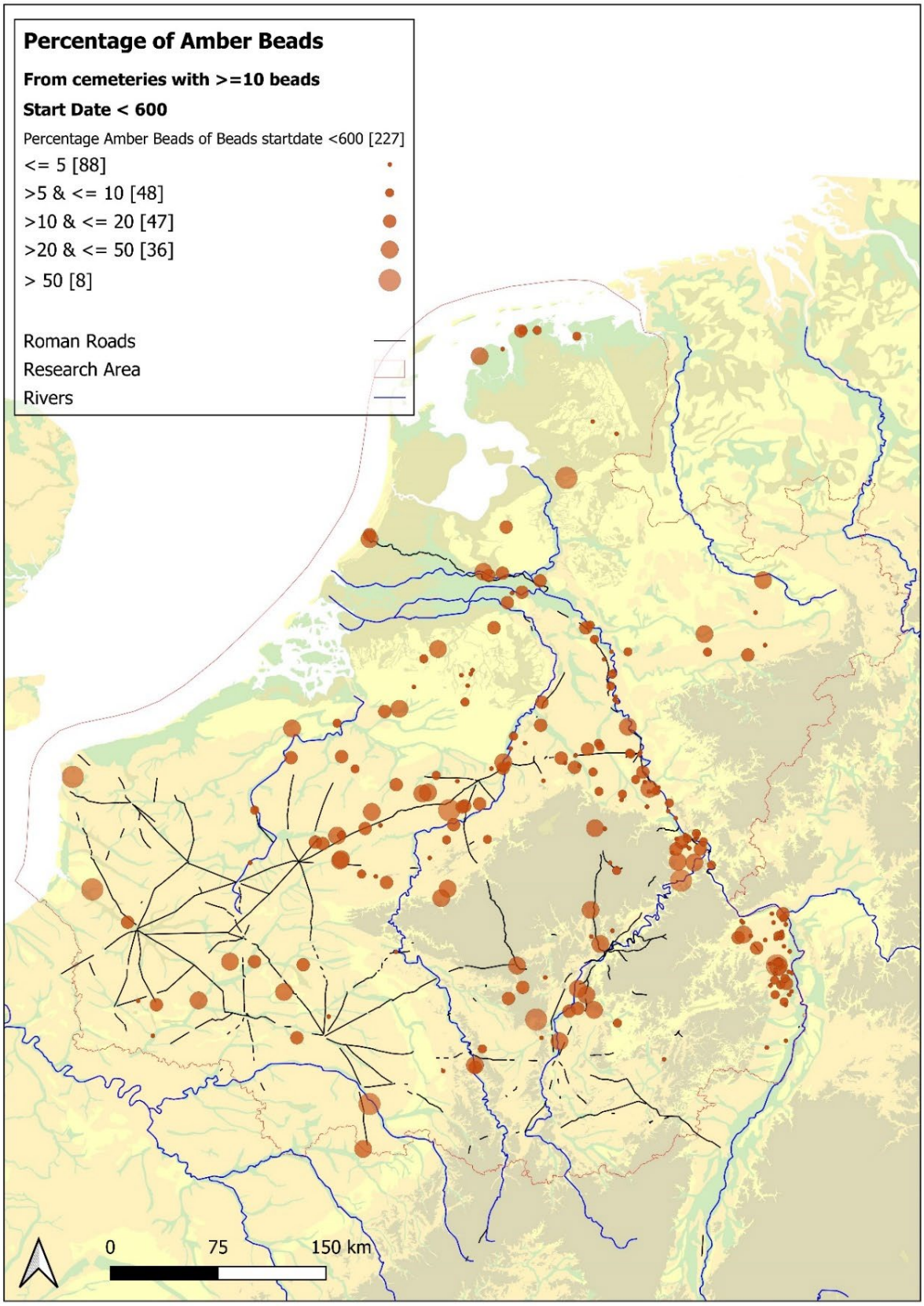

Figure 1.3.9 Distribution map of cemeteries with amber beads with a start date before 600, expressed as the percentage of the total amount of beads excavated in those cemeteries.

Source: www.earlymedievaleurope.org (Online Database ERC Rural Riches).

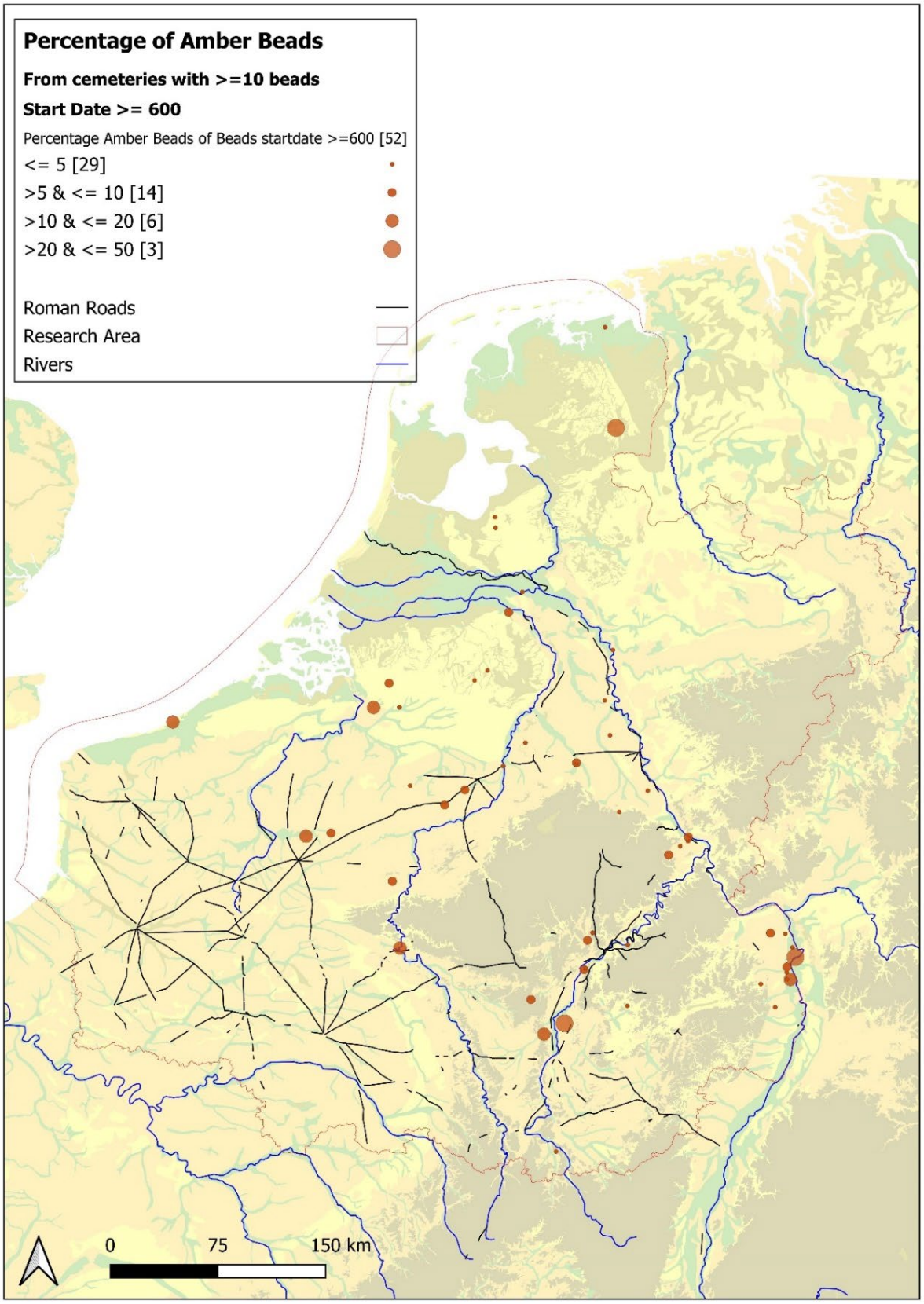

Figure 1.3.10 Distribution map of cemeteries with amber beads with a start date in or after 600, expressed as the percentage of the total amount of beads excavated in those cemeteries.

Source: www.earlymedievaleurope.org (Online Database ERC Rural Riches).

1.4. Case Study Beads

1.4.1 Late fifth and first half sixth century

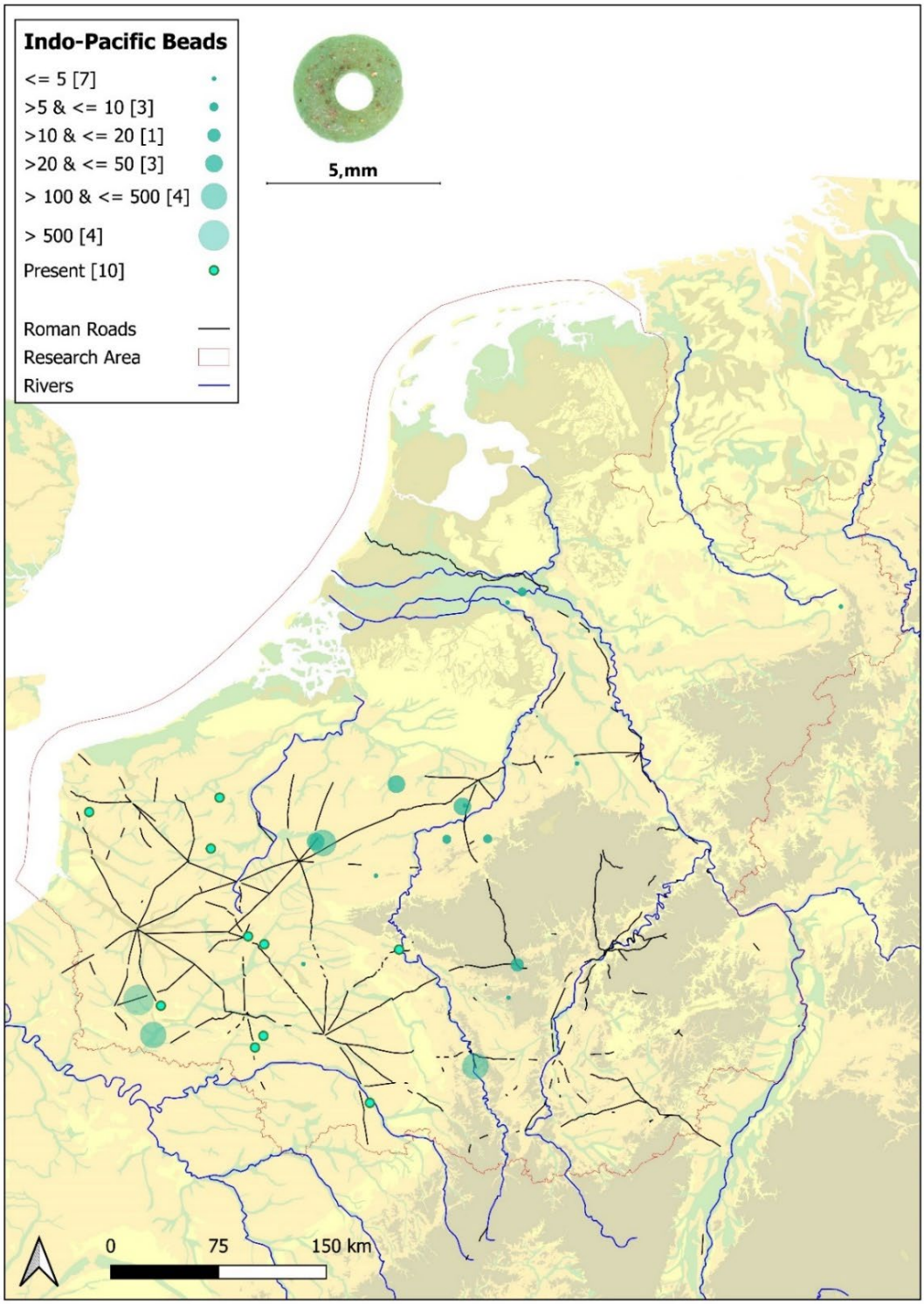

Figure 1.4.1.1 Distribution map of cemeteries with Indo-Pacific tradewind beads from India and/or Sri Lanka, typical for the late fifth and early sixth century, expressed as amounts of beads.

Source: www.earlymedievaleurope.org (Online Database ERC Rural Riches).

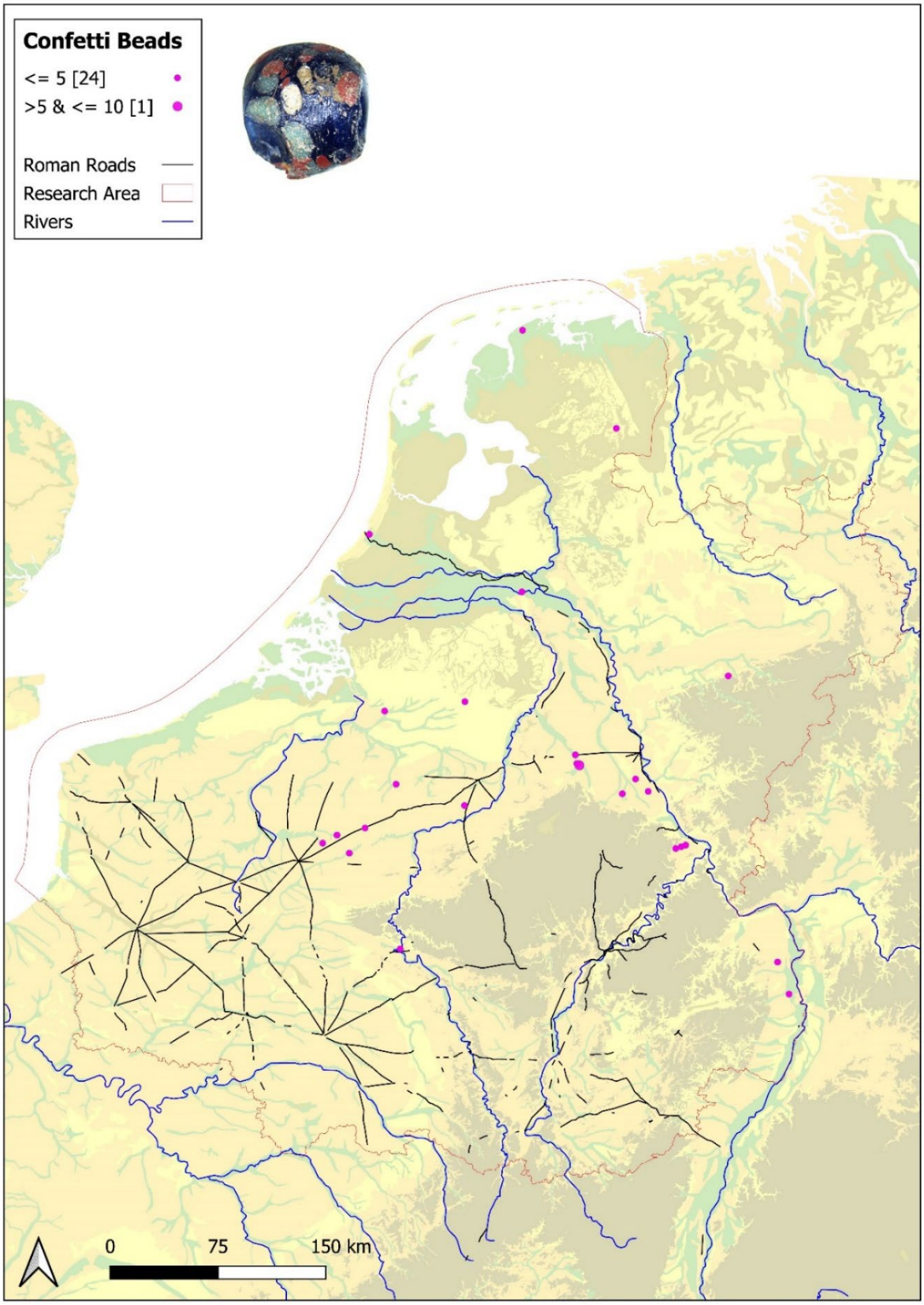

Figure 1.4.1.2 Distribution map of cemeteries with confetti beads from the Eastern Mediterranean, typical for the late fifth and early sixth century, expressed as amounts of beads.

Source: www.earlymedievaleurope.org (Online Database ERC Rural Riches).

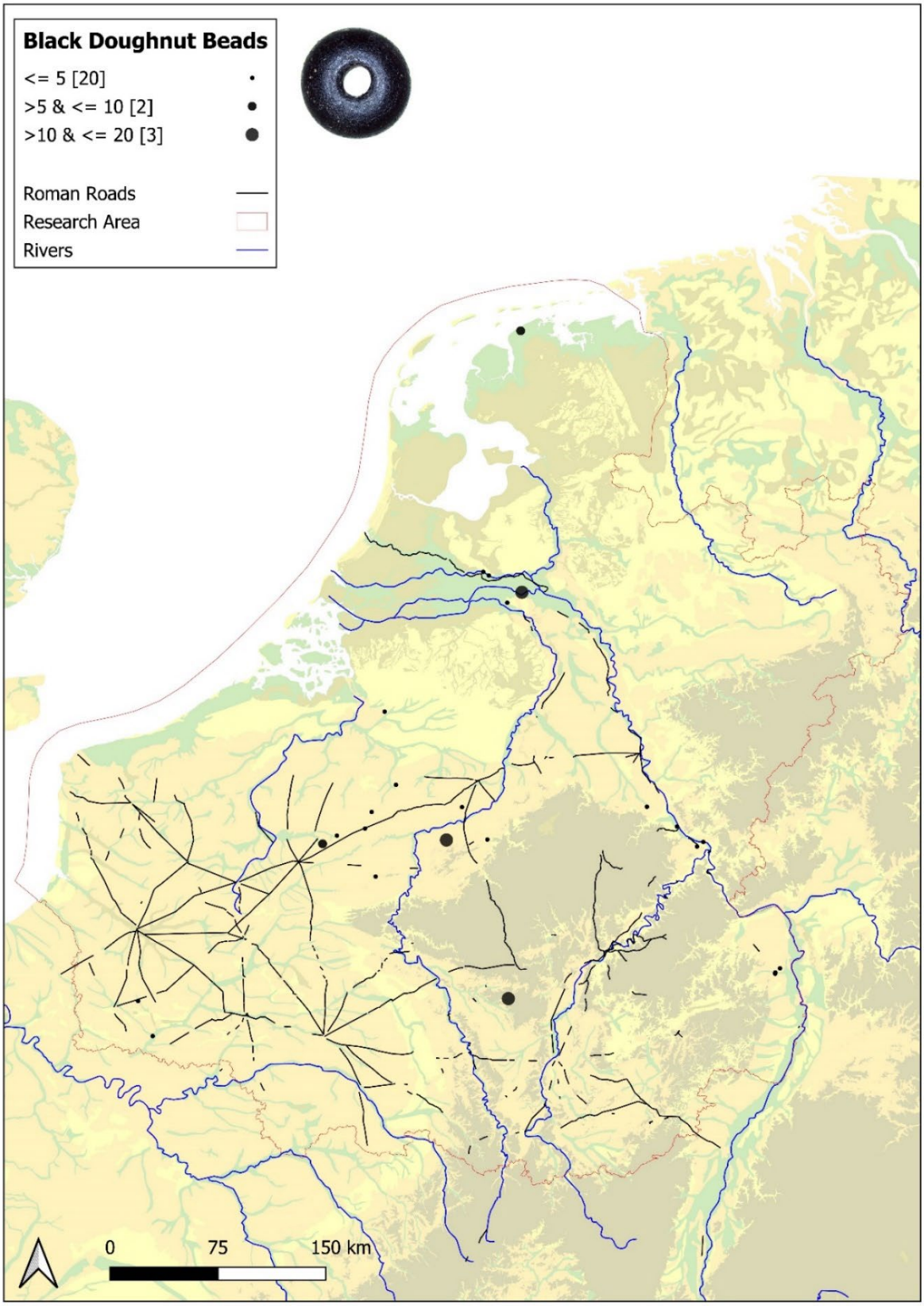

Figure 1.4.1.3 Distribution map of cemeteries with black donut beads from northwestern Europe, typical for the late fifth and early sixth century, expressed as amounts of beads.

Source: www.earlymedievaleurope.org (Online Database ERC Rural Riches).

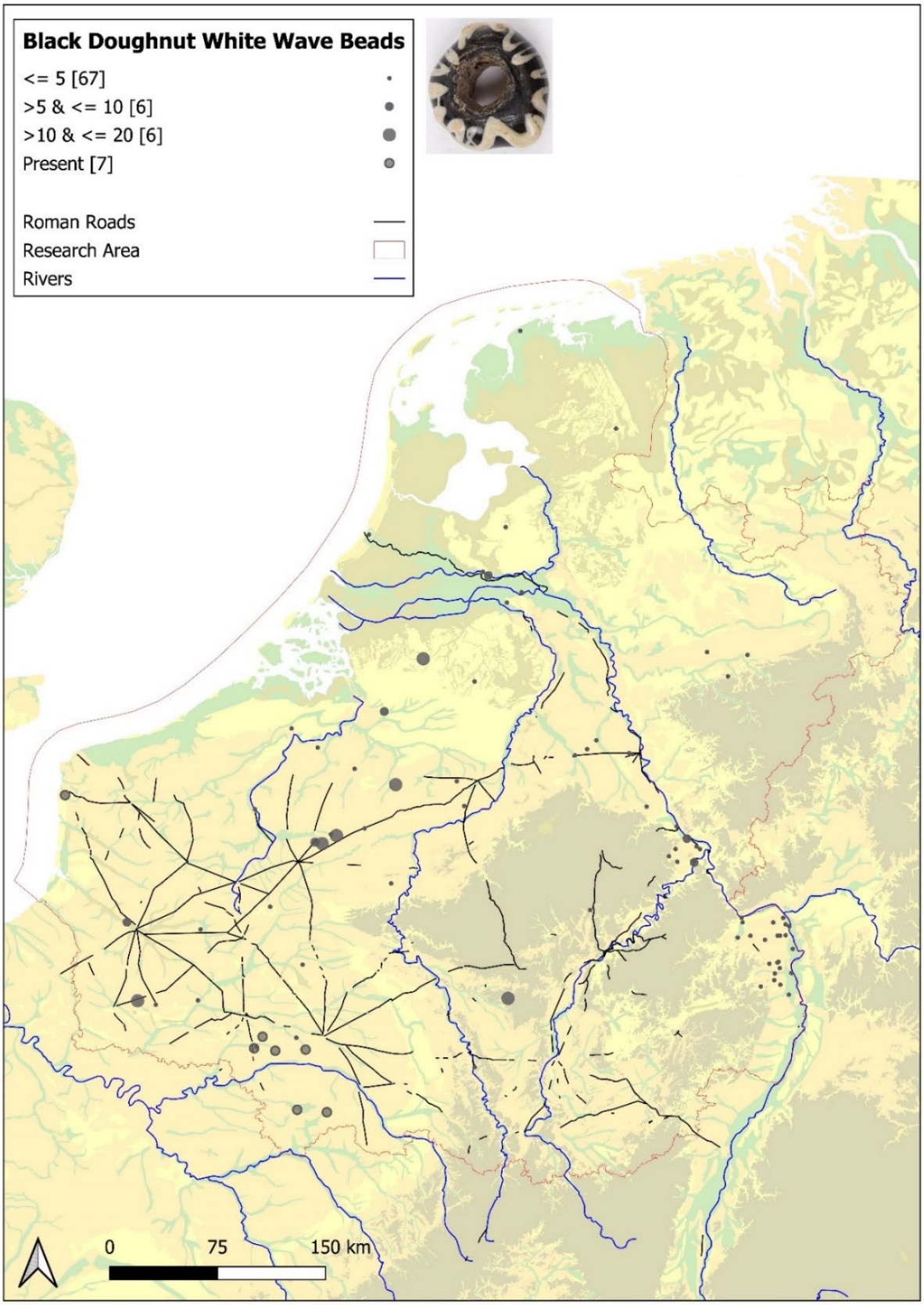

Figure 1.4.1.4 Distribution map of cemeteries with black donut white wave beads from northwestern Europe or the Eastern Mediterranean, typical for the late fifth and early sixth century, expressed as amounts of beads.

Source: www.earlymedievaleurope.org (Online Database ERC Rural Riches).

Figure 1.4.1.5 Distribution map of cemeteries with large spindlewhorl beads from northwestern Europe, typical for the late fifth and early sixth century, expressed as amounts of beads.

Source: www.earlymedievaleurope.org (Online Database ERC Rural Riches).

Figure 1.4.1.6 Distribution map of cemeteries with rock crystal beads from the Eastern Mediterranean or India, typical for the late fifth and first half of the sixth century, expressed as amounts of beads.

Source: www.earlymedievaleurope.org (Online Database ERC Rural Riches).

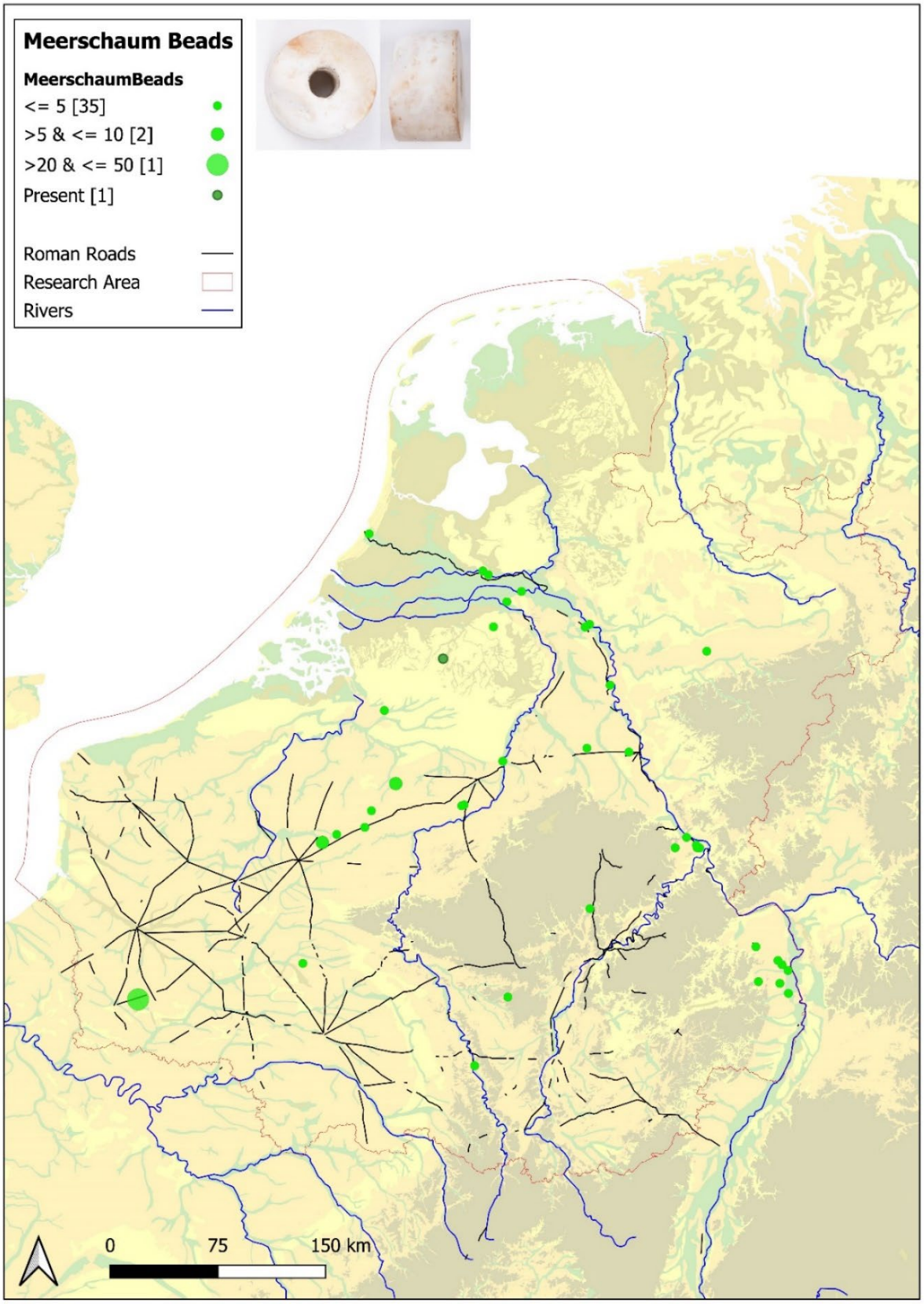

Figure 1.4.1.7 Distribution map of cemeteries with meerschaum beads from the Mediterranean, typical for the late fifth and first half of the sixth century, expressed as amounts of beads.

Source: www.earlymedievaleurope.org (Online Database ERC Rural Riches).

1.4.2 the mid-sixth century

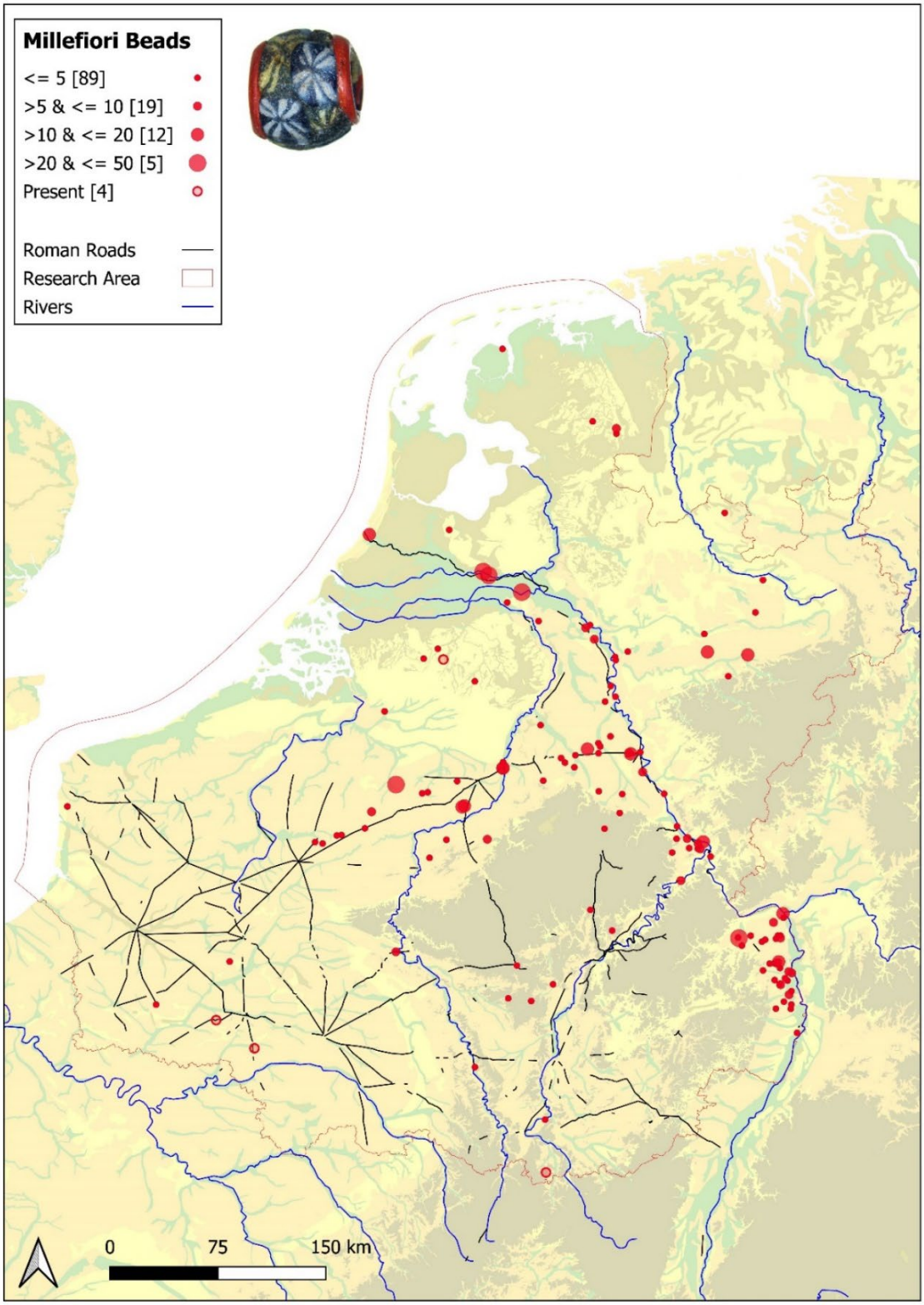

Figure 1.4.2.1 Distribution map of cemeteries with millefiori beads from Egypt or the Eastern Mediterranean, typical for the mid-sixth century, expressed as amounts of beads.

Source: www.earlymedievaleurope.org (Online Database ERC Rural Riches).

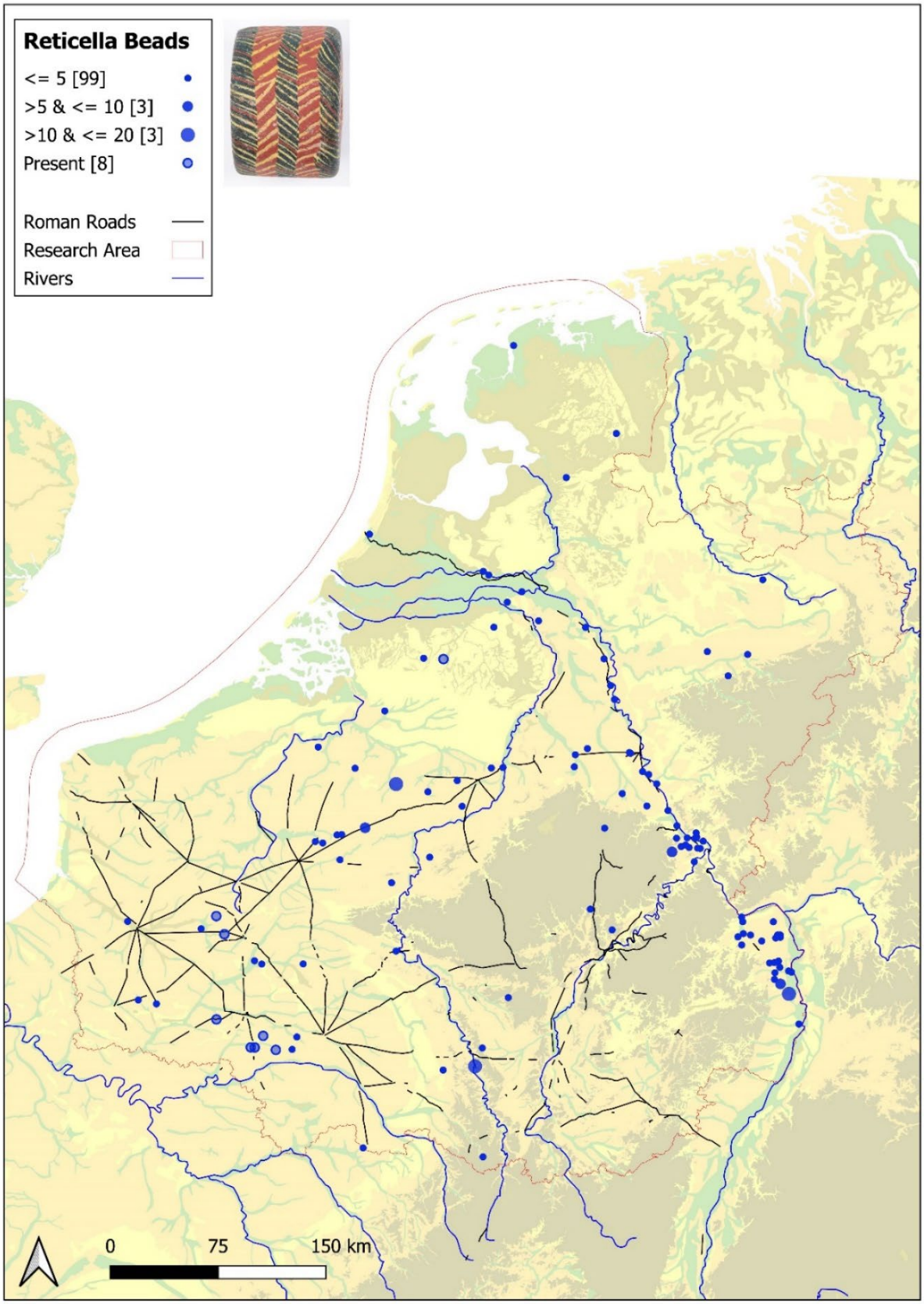

Figure 1.4.2.2 Distribution map of cemeteries with reticella beads, typical for the mid-sixth century, expressed as amounts of beads.

Source: www.earlymedievaleurope.org (Online Database ERC Rural Riches).

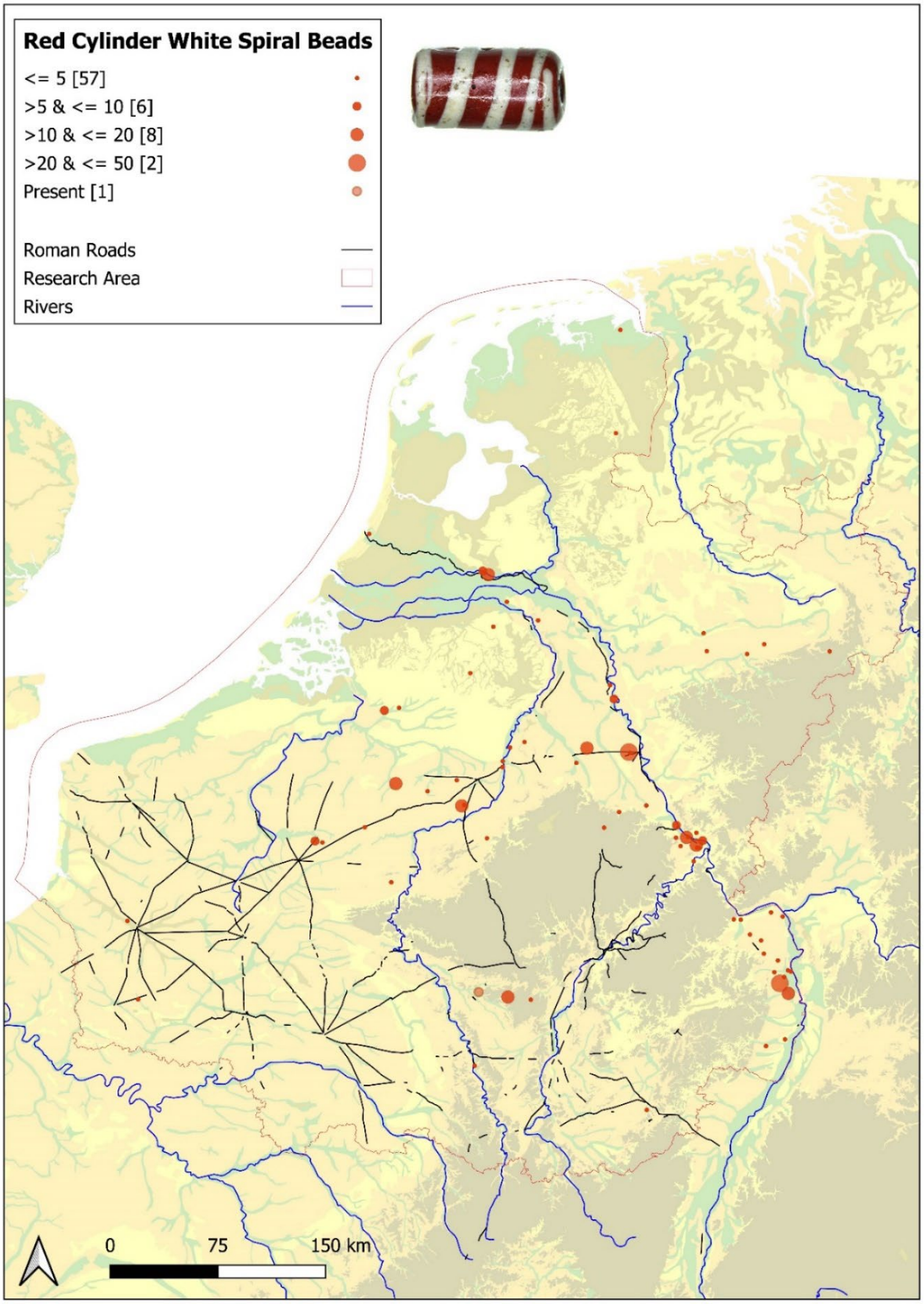

Figure 1.4.2.3 Distribution map of cemeteries with red cylinder white spiral beads from Northwestern Europe, typical for the mid-sixth century, expressed as amounts of beads.

Source: www.earlymedievaleurope.org (Online Database ERC Rural Riches).

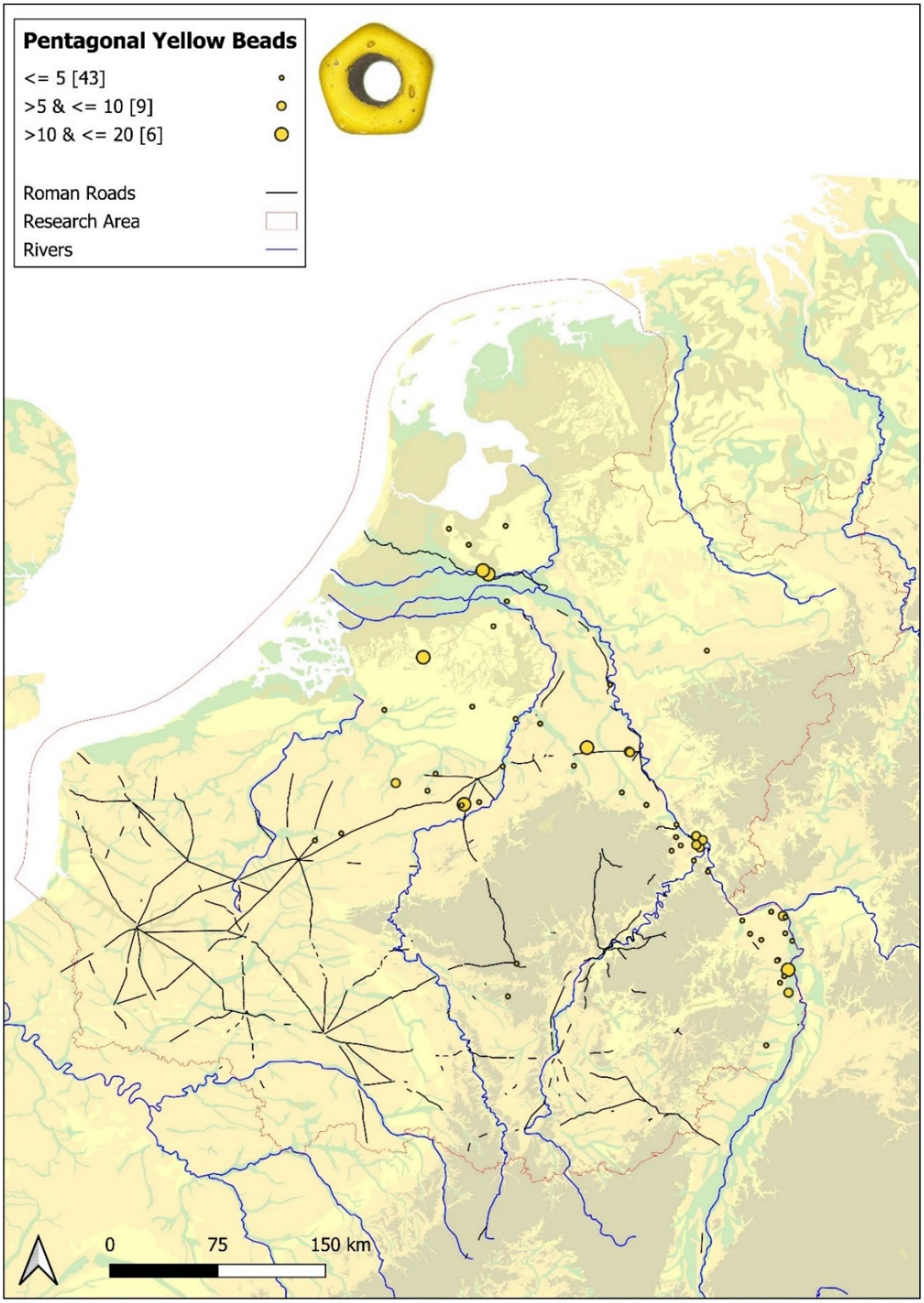

Figure 1.4.2.4 Distribution map of cemeteries with pentagonal yellow beads from Northwestern Europe, typical for the mid-sixth century, expressed as amounts of beads.

Source: www.earlymedievaleurope.org (Online Database ERC Rural Riches).

1.4.3 the late sixth century

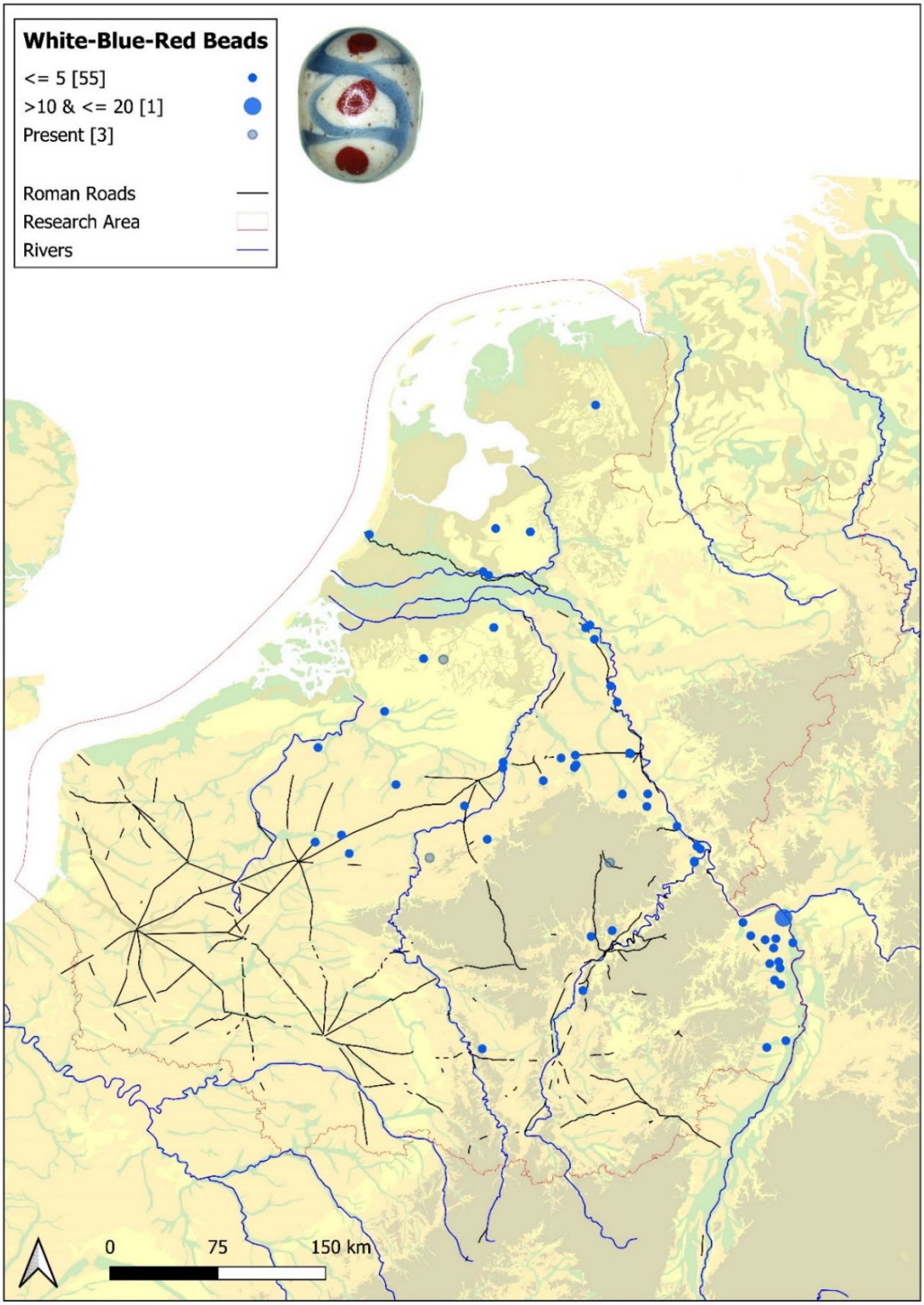

Figure 1.4.3.1 Distribution map of cemeteries with white-blue-red beads from Northwestern Europe, typical for the late sixth century, expressed as amounts of beads.

Source: www.earlymedievaleurope.org (Online Database ERC Rural Riches).

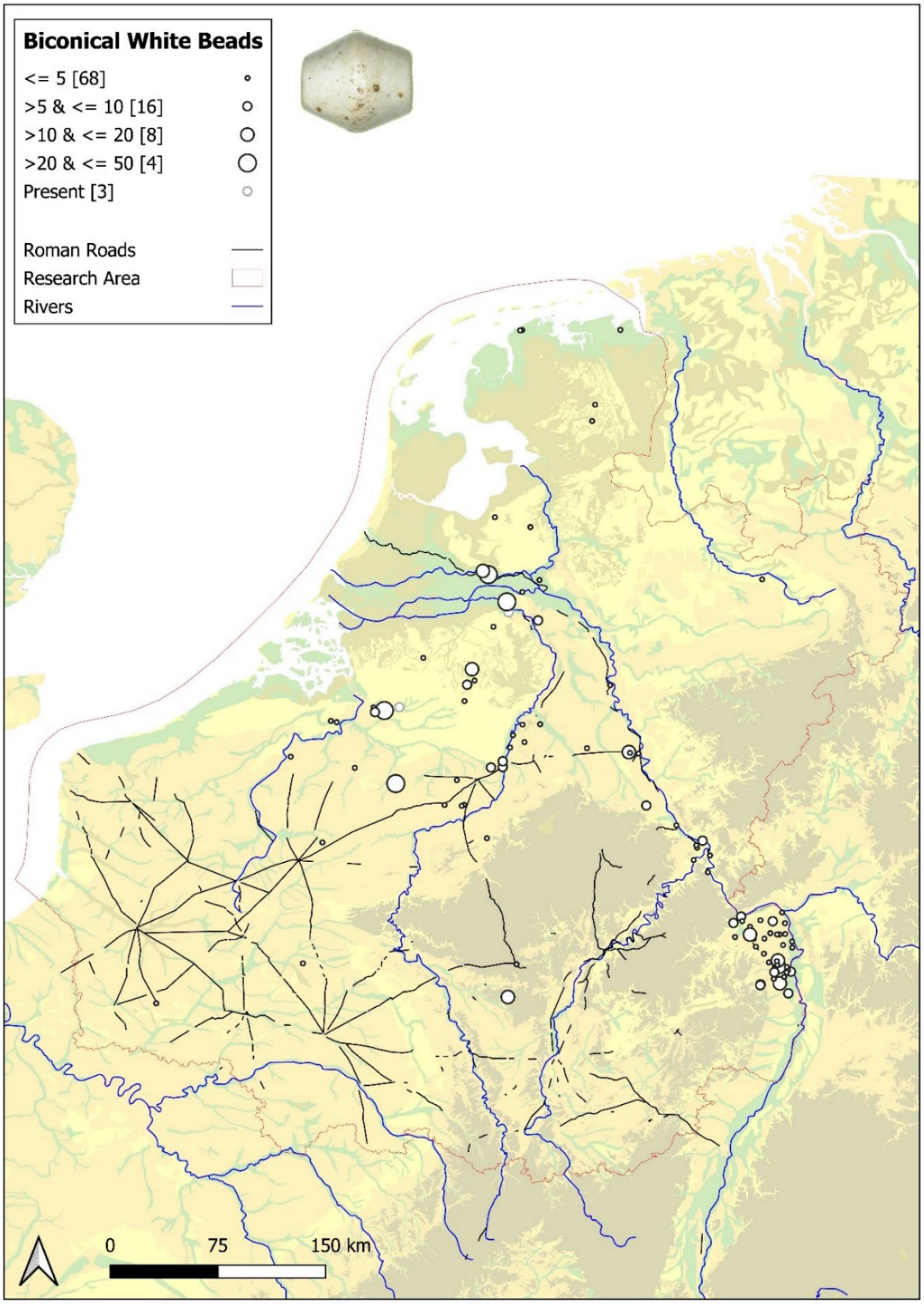

Figure 1.4.3.2 Distribution map of cemeteries with biconical white beads from Northwestern Europe, typical for the late sixth century, expressed as amounts of beads.

Source: www.earlymedievaleurope.org (Online Database ERC Rural Riches).

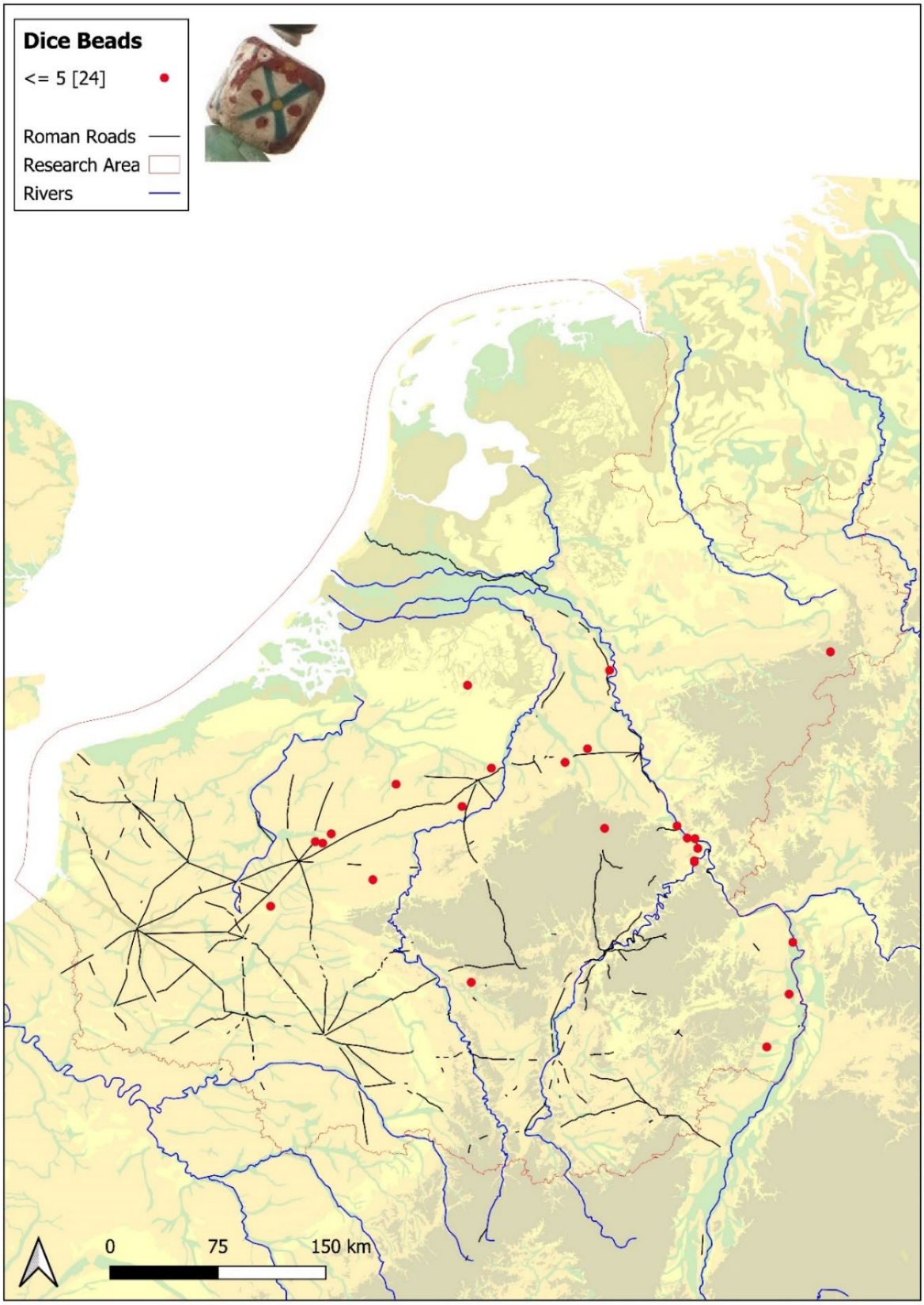

Figure 1.4.3.3 Distribution map of cemeteries with dice beads from Northwestern Europe, typical for the late sixth century, expressed as amounts of beads.

Source: www.earlymedievaleurope.org (Online Database ERC Rural Riches).

1.4.4 The ongoing sixth century

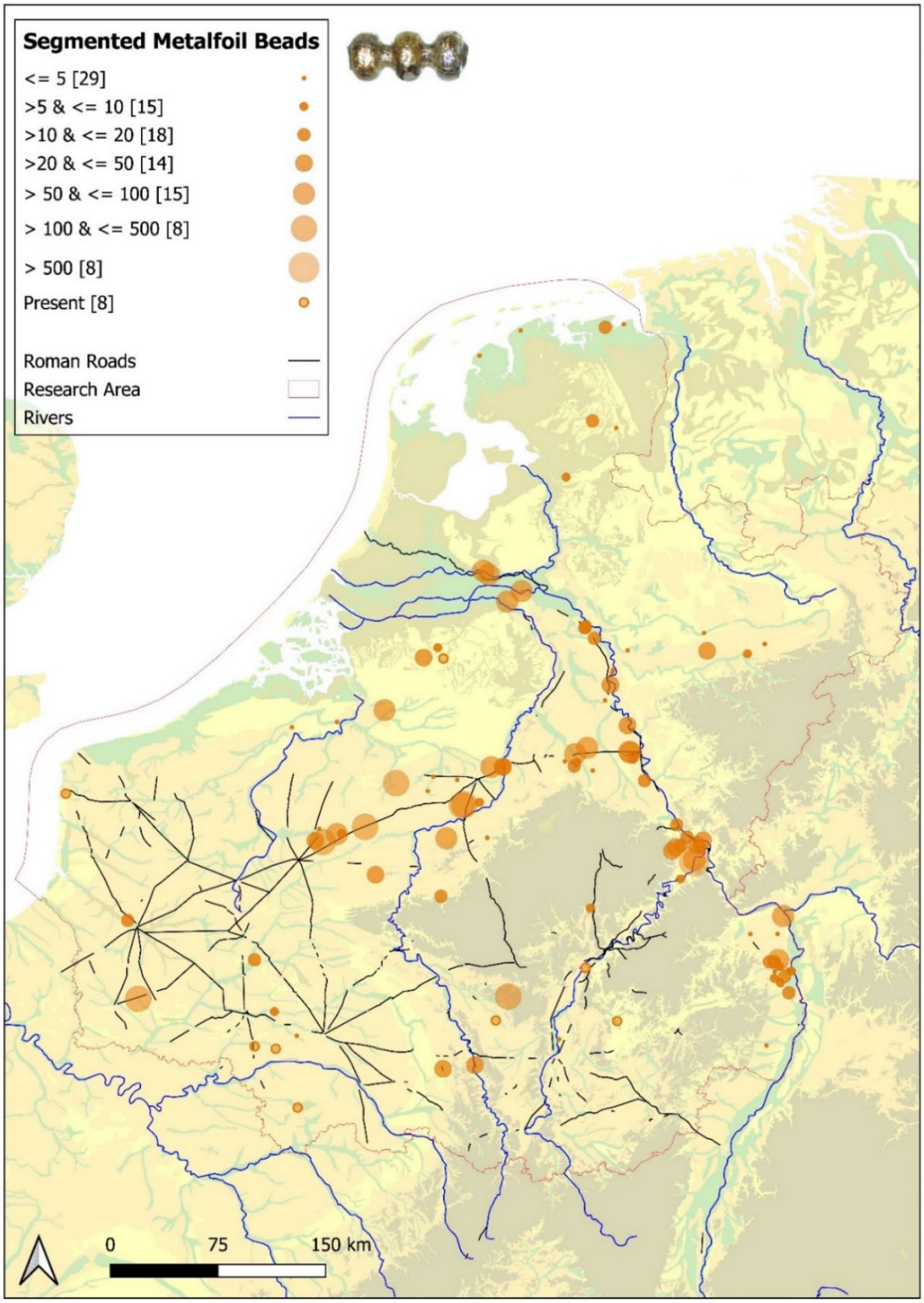

Figure 1.4.4.1 Distribution map of cemeteries with segmented metalfoil beads from the Eastern Mediterranean, typical for the ongoing sixth century, expressed as amounts of beads.

Source: www.earlymedievaleurope.org (Online Database ERC Rural Riches).

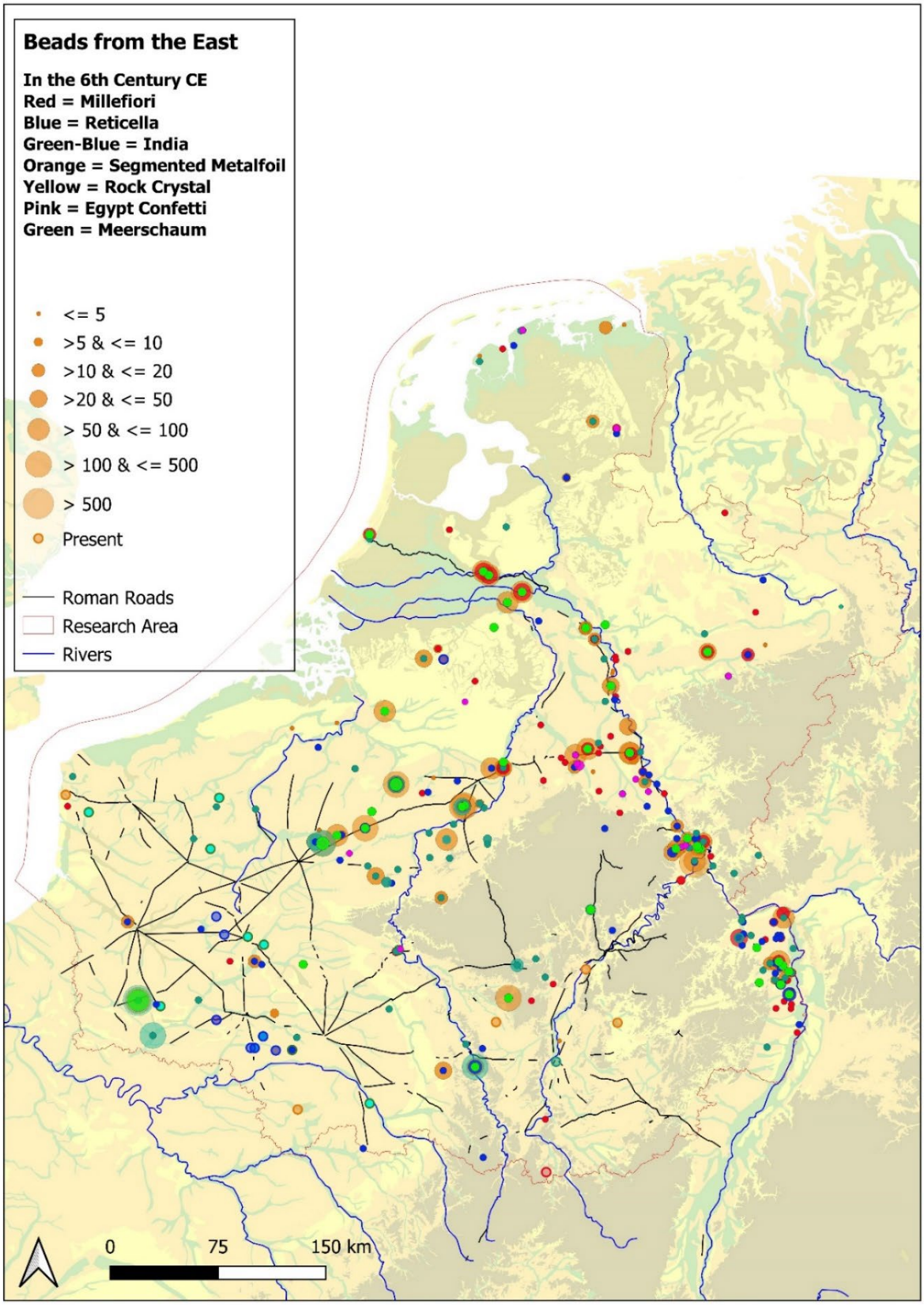

Figure 1.4.4.2 Distribution map of cemeteries with all sixth century case-study beads from the Eastern Mediterranean and further east, expressed as amounts of beads.

Source: www.earlymedievaleurope.org (Online Database ERC Rural Riches).

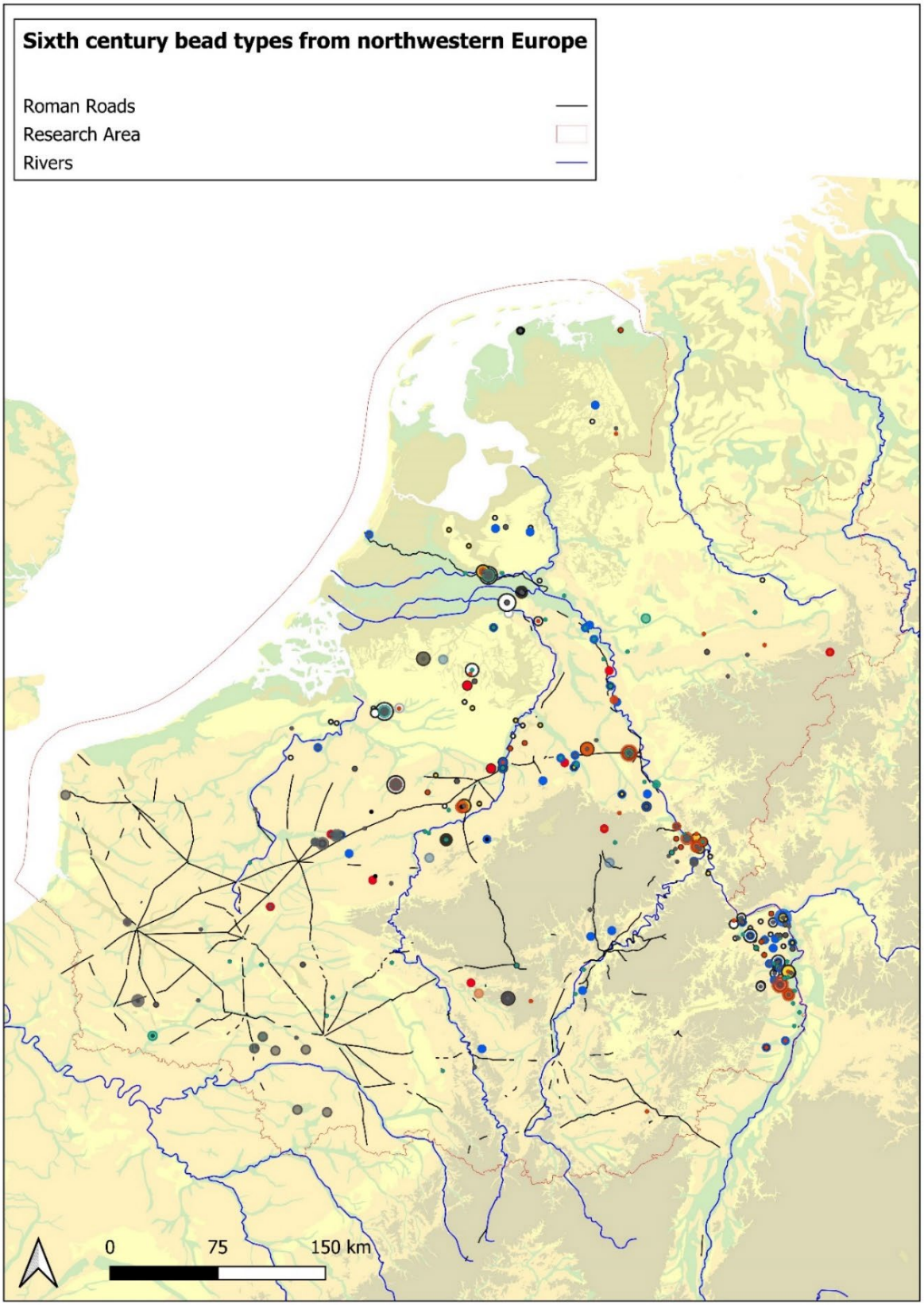

Figure 1.4.4.2 Distribution map of cemeteries with all sixth century case-study beads from northwestern Europe itself, expressed as amounts of beads.

Source: www.earlymedievaleurope.org (Online Database ERC Rural Riches).

1.4.5 The seventh century

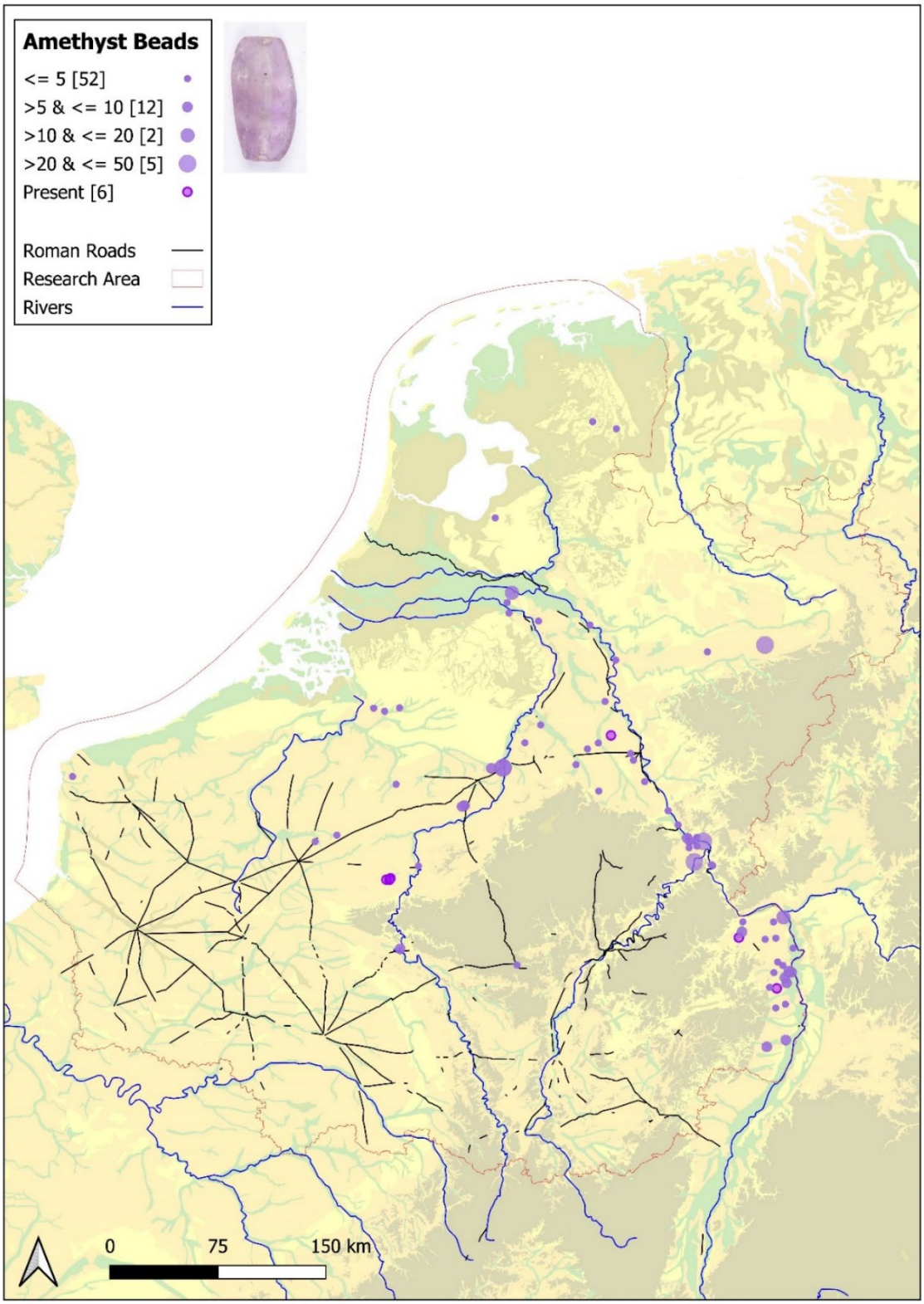

Figure 1.4.5.1 Distribution map of cemeteries with amethyst beads from the Eastern Mediterranean or India, typical for the first half of the seventh century, expressed as amounts of beads.

Source: www.earlymedievaleurope.org (Online Database ERC Rural Riches).

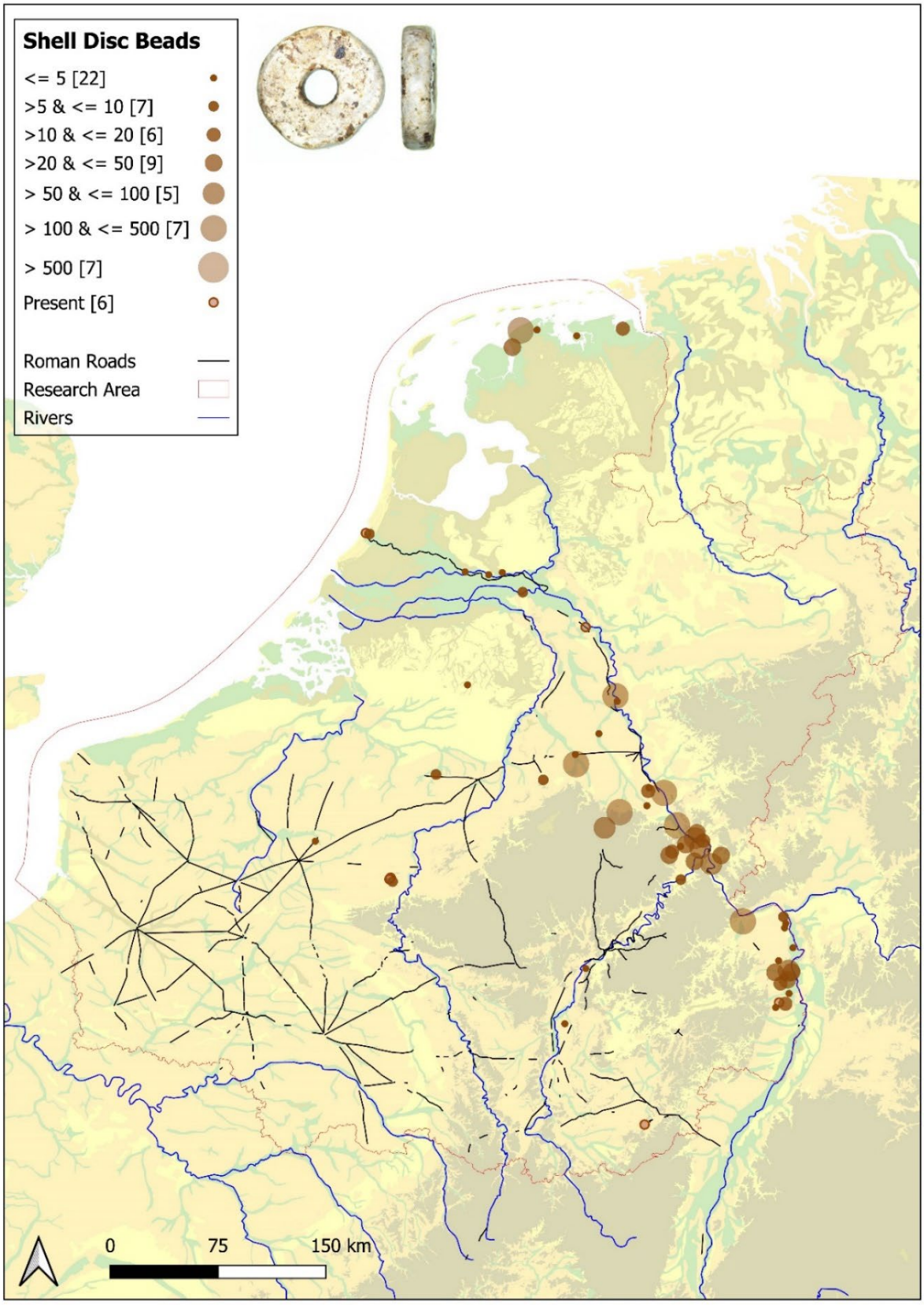

Figure 1.4.5.2 Distribution map of cemeteries with shell disc beads from the Eastern Mediterranean, typical for the second half of the seventh century, expressed as amounts of beads.

Source: www.earlymedievaleurope.org (Online Database ERC Rural Riches).

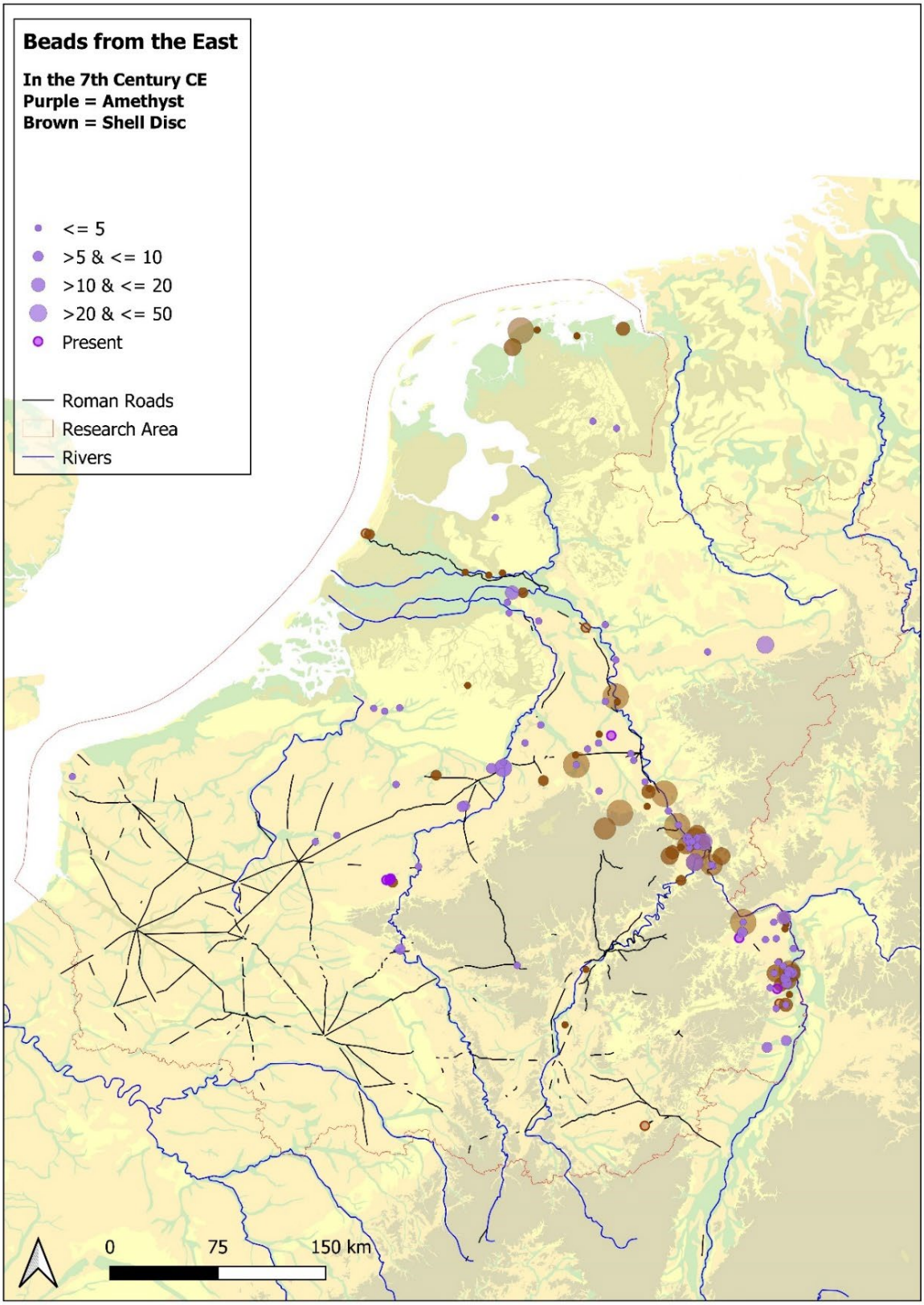

Figure 1.4.5.3 Distribution map of cemeteries with all seventh century case-study beads from the Eastern Mediterranean and further east, expressed as amounts of beads.

Source: www.earlymedievaleurope.org (Online Database ERC Rural Riches).

Appendix 2 Lent-Lentseveld, Elst-‘t Woud and Wijchen-Centrum

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2.1. The sites

2.1.1 Overview of graves with beads from Lent-Lentseveld

Grave	Sex	Age	Position beads	Number of beads	number of bead groups	Material	Bead techniques	Provenance beads	Date beads	Period	certainty of bead date	Date Grave in Rural Riches Database
1	female(?)	adult	neck	10	1	glass	B	Europe	500-600	P1-P3	certain	555-585
2	female(?)	adult	neck	52	1	glass, amber, faience	B, F, A	Europe, Baltic, Egypt, Near East, Middle East, Roman	480-530	P1	probable	500-550
5	female(?)	adult	neck	72	1	glass, amber	B, F, A, E, C	Europe, Baltic, Egypt, Near East	530-570	P2	certain	530-570
9	female	adult	neck	25	1	glass, amber	B, F, A, E	Europe, Baltic, Egypt, Near East	510-550	P1-P2	certain	480-550
12	child	3-4	between lower legs	1	1	amber	F	Baltic	500-600	P1-P5	certain	500-600
13	child	5-6	neck, hip	82 + 22	2	glass, amber	B, F, A, E, C, D	Europe, Baltic, Egypt, Near East, India	510-550	P1-P2	certain	525-550
16	female	adult	neck, hip	26 + 1	2	glass, amber, marble, beryllium	B, F, A, D	Europe, Baltic, Near East, Roman	480-530	P1	probable	530-550
20	female	adult	neck, loose bead, hip	92 + 1	2	glass, amber	B, F, A, E	Europe, Baltic, Egypt, Near East, Middle East	510-550	P1-P2	certain	520-570
21	child	5-6	belt?	12	1	glass, amber, faience	B, F, A, E	Europe, Baltic, Egypt, Near East, Roman	480-530	P1	probable	520-570
23	female	adult	neck	32	1	glass, amber	B, F, A, C	Europe, Baltic, Near East, Roman	480-530	P1	probable	480-535
26	child	5-6	neck, arm	61 + 37	2	glass, amber	B, F, A	Europe, Baltic, Near East	530-570	P2	certain	530-555
27	child	4-5	belt	7	1	glass, faience	B	Europe, Roman	530-570	P2	certain	550-600
28	female	adult	neck, loose bead	109	1	glass	B	Europe	510-550	P1-P2	certain	525-575
34	female	adult	neck, arm/stomach, hip, knees	98 + 5 + 1 + 1	5	glass, meerschaum	B, F, A	Europe, Baltic, Mediteranean	510-550	P1-P2	certain	525-560
35	female	adult	chest, hip	41 + 1	2	glass, amber	B, F, E, C	Europe, Baltic, Egypt, Near East	510-550	P1-P2	certain	540-575
36	female	adult	chest	11	1	glass, amber	B, F, A, D	Europe, Baltic, Near East	480-530	P1	certain	540-575
40	child	young child	neck	120	1	glass, amber	B, F, A, E, C, D	Europe, Baltic, Egypt, Near East, Middle East, India, Roman	510-550	P1-P2	certain	525-550

41	female	adult	neck	27	1	glass, amber	B, F	Europe, Baltic, Mediteranean	530-570	P2	certain	535-575
42	female	adult	neck	28	1	glass, amber	B, F, C	Europe, Baltic, Near East	510-550	P1-P2	certain	520-570
43	female	adult	neck, bag	46 + 31	2	glass, amber	B, F, A, E	Europe, Baltic, Egypt, Near East	530-570	P2	certain	520-570
45	female	adult	disturbed grave	5	1	glass, amber, faience	B, F	Europe, Baltic, Roman	480-610	P1-P3	certain	500-530
50	female	adult	neck, hip	19 + 1	2	glass, amber, marble	B, F, A, E	Europe, Baltic, Egypt, Near East	500-550	P1-P2	certain	525-570
51	female	adult	neck	46	1	glass, amber	B, F, D	Europe, Baltic, Near East	550-600	P2-P3	probable	535-600
52	female	juvenile	neck	7	1	glass	B	Europe	480-610	P1-P3	certain	500-600
53	female	adult	neck, loose bead	66 + 1	2	glass, amber	B, F, A, C	Europe, Baltic, Near East, India	530-570	P2	certain	520-570
55	child	infant	chest	5	1	glass, amber	B, F, A, C	Europe, Baltic, Near East	530-570	P2	certain	530-570
102	male	19-28	cremation	1	1	glass	B	Europe	480-610	P1-P3	certain	x
105	?	20-40	cremation	1	1	glass	B	Europe	480-610	P1-P3	certain	x
112	?	?	cremation	1	1	glass	E	Egypt	530-570	P2	certain	525-575

2.1.2 Overview of graves with beads from Elst-‘t Woud. Lines marked light grey = studied from photograph, lines marked dark grey = not studied.

Grave	Sex/gender	Age	Position beads	Number of beads	number of bead groups	Material	Bead techniques	Provenance beads	Date beads	Period	certainty of bead date	Date in publication	Date range
2	?	?	cremation	5	1	glass	B	Europe	650-700	P5-P6	certain	8-9	640-710
5	?	?	cremation	1	1	glass	B	Europe	?	?	x	x	x
8	male	adult	cremation	14	1	glass	?	?	?	?	x	7-9	610-710
13	?	?	cremation	2	1	glass, antler	B, F	Europe	?	?	x	6-7	580-650
24	?	?	cremation	6	1	glass	?	?	?	?	x	7-9	610-710
28	?	?	cremation	8	1	glass	?	?	?	?	x	7-8	610-680
38	female	adult	cremation	18	1	glass	B	Europe	620-670?	P5?	certain	7-9	610-710
54	?	?	cremation	4	1	glass	B	Europe	?	?	uncertain	7-9	610-710
55	?	?	cremation	1	1	glass	B	Europe	?	?	x	7-9	610-680
58	?	?	cremation	1	1	glass	B	Europe	?	?	x	7-9	610-710
59	female	adult	chest	3	1	glass	B	Europe	640-700?	P5-P6?	uncertain	8-9	640-710
65	?	?	cremation	1	1	glass	?	?	?	?	x	7-8	610-680
66	?	?	cremation	2	1	glass	B	Europe	?	?	x	7-8	610-680
78	?	?	cremation	4	1	glass	?	?	?	?	x	x	x
81	female	adult	upper body	120	1	glass, amber	B,C,F	Europe, Near East, Baltic	570-610	P3	certain	7-9	610-710
82	female	child	neck, side	33	1	glass	B,C,D	Europe, Near East	570-610	P3	certain	6-9	580-710
87	female	adult	neck, leg	79, 1	2	glass, amber	A,B,C,D,F	Europe, Near East, Baltic	530-570	P2	certain	4-5	510-590
88	female	adult	hip, neck	33, 74	2	glass, amber, copper	A,B,C,E,F	Europe, Egypt, Near East, Baltic	550-600	P2-P3	certain	5	565-590
91	female	adult	neck	41	1	glass, amber	B,F	Europe, Baltic	580-620	P3-P4	certain	4b-5	540-590
92	female	adult	upper arm	13	1	glass, amber	B,C,E,F	Europe, Near East, Egypt, Baltic	530-570	P2	uncertain	x	x
112	female	adult	left leg, upper leg, stomach/hip, head	2,6,24, 3	4	glass, amber	B,D,F	Europe, Near East, Baltic	480-530	P1	certain	5	565-590
114	?	?	cremation	1	1	glass	B	Europe	?	?	x	5-7	565-650
118	female	adult	hips, stomach/chest, leg	5, 33, 1	3	glass, amber, flint	A,B,E,F	Europe, Near East, Egypt, Baltic	480-530	P1	probable	4b-5	540-590
127	female	adult	hip, neck/chest	16, 108	2	glass, amber, meerschaum	A,B,C,D,E,F	Europe, Near East, Egypt, Baltic, Mediterranean	530-570	P2	certain	5	565-590

129	female	child	neck	7	1	glass	B	Europe	560-610	P3	certain	5	565-590
133	male	adult	purse/hip	1	1	glass	?	?	?	?		before 4-5	before 510-590
135	female	adult	scattered	3	?	glass, amber	B,F	Europe, Baltic	480-530	P1	uncertain	4	510-565
136	female	adult	fill coffin	2	1	glass	B	Europe	550-570	P2b	uncertain	4-5	510-590
140	?	?	cremation	1	1	glass	?	?	?	?	x	5-7	565-650
141	?	?	cremation	5	1	glass	?	?	?	?	x	7-9	610-710
152	?	?	cremation	1	1	glass	B	Europe	600-640	P4	uncertain	7-9	610-710
155	female	adult	upper legs, in opening glass bell-beaker, chest	1, 4, 21	3	glass, amber, faience	A,B,E,G	Europe, Near East, Baltic, Egypt, Roman	530-570	P2	certain	4	510-565
159	female	adult	neck	19	1	glass, amber	A,B,F	Europe, Near East, Baltic	480-610	P1-P3	certain	6	580-620
161	female	child	neck/chest	84	1	glass, amber	A,B,C,D,E,F	Europe, Near East, Egypt, Baltic	530-570	P2	certain	4-6	510-620
162	female	child	chest/stomach	43	1	glass	A,B,D	Europe, Neat East	530-570	P2	certain	4-5	510-590
175	female	adult	chest, neck	105, 96	2	glass, amber, jet	A,B, F	Europe, Near East, Baltic	480-530	P1	probable	4-5	510-590
183	?	?	cremation	2	1	glass	?	?	?	?	x	4-7	510-650
192	female?	adult	neck	12	1	glass	B	Europe	600-640	P4	certain	x	x
193	female	child	head/neck	14	1	glass	B,C,D	Europe, Near East	560-610	P3	certain	7-8	610-680
201	female	child	centre grave	7	1	glass, amber, faience	D,F,G	Near East, Baltic, Roman	480-530	P1	probable	2-3	450-525
204	female?	adult	?	1	1	glass	B	Europe	530-570	P2	probable	x	x
205	female	child	southwestern corner: neck?	8	1	glass	B	Europe	480-610	P1-P3	probable	1-3	400-525
208	female	adult	fill grave, neck/chest, hip	2, 33, 2	3	glass, amber	A,B,D,E,F	Europe, Near East, Egypt, Baltic	520-570	P1-P2	certain	5-7	565-650
209	female	child	neck/chest	7	1	glass	B	Europe	480-610	P1-P3	certain	x	x
210	female	adult	neck	33	1	glass, ceramic	B	Europe	600-640	P4	certain	x	x
211	female	adult	upper legs, neck/chest	1, 9	2	glass	B,C,D,E	Europe, Near East, Egypt	550-600	P2-P3	certain	4b-5	540-590
214	female	child?	neck, in biconical pot	9, 1	2	glass	B,D	Europe, Near East	600-640	P4	probable	5-7	565-650
216	female	adult	neck, upper legs	5, 166	2	glass, amber	A, B, F	Europe, Near East, Baltic	480-530	P1	certain	5-6	565-620
217	female	child	?	2	1	glass	B	Europe	450-610	P0-P3	uncertain	1-3	400-525
224	?	?	cremation	2	1	glass	B	Europe	480-610	P1-P3	uncertain	5-9	565-710
234	female	child	neck	11	1	glass, amber	A,B,D,F	Europe, Near East, Baltic	530-570	P2	certain	x	x

235	female	adult	head	4	1	glass, amber	A,B,D,F	Europe, Baltic, Near East	530-570	P2	probable	x	x
238	female	adult	neck/head/chest, arm/hip, knees	103, 24, 1	3	glass, amber, flint	A,B,D,E,F	Europe, Near East, Egypt, Baltic	550-600	P2-P3	certain	4b-5	540-590
239	female	adult	neck/head, legs	17, 1	2	glass, amber, bone	B,F	Europe, Baltic	480-610	P1-P3	probable	4b	540-565
242	female	adult	chest	4	1	glass, amber	A,B,F	Europe, Near East, Baltic	590-620	P3-P4	probable	before 7-9	before 610
243	female	adult	head/neck	11	1	glass	B	Europe	600-640	P4	probable	x	x
249	female	adult	head/neck/chest, hip	185, 38	2	glass, amber, faience	A,B,C,D,E,F, G	Europe, Near East, Egypt, Baltic, Roman	560-610	P3	certain	4b	540-565

2.1.3 Overview of graves with beads from Wijchen-Centrum. Lines marked light grey = studied from photograph, lines marked dark grey = not studied.

Grave	Sex/gender	Age	Position beads	Number of beads	number of bead groups	Material	Bead techniques	Provenance beads	Date beads	Period	certainty of bead date	Date in Publication	Date-range
2	?	?	left side	1	1	glass	A	Near East	480-610	P1-P3	certain	3b-4	555-640
4	female	?	legs, grave fill	2	2	glass	D	Near East	480-610	P1-P3	uncertain	3b-4	555-640
5	female	adult	head/neck	22	1	glass, amber	B,F	Europe, Baltic	600-640	P4	certain	4a	570-610
8	?	?	head end grave	1	1	glass	A	Near East	450-610	P0-P3	probable	4	570-640
9	female	adult	scattered	2	2	glass	B	Europe	560-610	P3	probable	3a	530-555
10	?	?	outside coffin	1	1	glass	B	Europe	480-530	P1	uncertain	3a	530-555
22	?	?	head end grave	2	1	glass	B	Europe	560-670	P3-P5	probable	4b	610-640
29	female	adult	neck	12	1	glass, amber	A,B,F	Europe, Near East, Baltic	480-530	P1	probable	2	450-530
34	female	25-35	neck	113	1	glass, amber	A,B,F	Europe, Near East, Baltic	570-620	P3-P4	certain	4a	570-610
35	?	?	outside coffin	1	1	glass	B	Europe	?	?	x	x	570-610
37	female	?	head/neck	1	1	glass	B	Europe	560-610	P3	probable	3-4	530-640
40	?	?	scattered	2	2	glass	B	Europe	480-530	P1	probable	4	570-640
44	female	adult	grave fill	1	1	glass	B	Europe	675-750	x	certain	3-4	530-640
45	female	?	upper body	5	1	glass	B	Europe	570-620	P3-P4	probable	3-4	530-640
49	female	?	lower body	5	5	glass, amber	B,F	Europe, Baltic	570-620	P3-P4	certain	2-3	450-570
50	male	child	chest	2	2	glass, ceramic	A,F	Near East, Europe	480-530	P1	probable	2b	490-530
51	female	?	upper body	19	1	glass, amber	A,B,F	Europe, Near East, Baltic	480-610	P1-P3	certain	2	450-530
52	female	17-35	neck/chest	39	1	glass, amber	A,B,F,G	Europe, Near East, India, Baltic, Roman	480-530	P1	certain	2b	490-530
55	female	?	head end grave	6	1	glass, amber	B,F	Europe, Baltic	600-640	P4	certain	4b	610-640
58	female	?	neck	11	1	glass, amber	B, F	Europe, Baltic	620-670	P5	certain	4b	610-640
59	?	child	upper body	2	2	glass, faience	B,G	Europe, Roman	600-640	P4	uncertain	3	530-570
65	female	?	neck/chest	32	1	glass, amber	A,B,C,D,F	Europe, Near East, Baltic	550-600	P2-P3	certain	4a	570-610
67	?	7-25	mouth	1	1	amber	F	Baltic	480-670	P1-P5	certain	4	570-640
75	female	adult	head	1	1	glass	B	Europe	600-640	P4	probable	4a	570-610
81	female	?	feet	1	1	glass	B	Europe	480-530	P1	uncertain	4a	570-610
87	?	child	container next to coffin	2	2	amber, faience	F,G	Baltic, Roman	480-610	P1-P3	probable	2	450-530

92	female	?	head end grave	13	1	glass, amber	A,B,F	Europe, Near East, Baltic	600-640	P4	certain	4	570-640
93	female	child	head	4	1	glass, amber	B,F	Europe, Baltic	480-610	P1-P3	probable	3b-4	555-640
98	female	?	head	29	1	glass, amber, silver	A,B,F	Europe, Near East, Baltic	570-620	P3-P4	certain	4	570-640
99	male	?	lower body	1	1	glass	B	Europe	480-570	P1-P2	probable	4	570-640
102	?	?	head end grave	2	1	glass	B	Europe	560-610	P3	probable	4a	570-610
104	female	17-25	neck	6	1	glass	B	Europe	560-610	P3	certain	4a	570-610
106	female	?	left side	14	1	glass, amber	A,B,F	Europe, Near East, Baltic	580-620	P3-P4	certain	3-4	530-640
107	female	?	right side upper body	1	1	amber	F	Baltic	480-670	P1-P5	certain	3b-4	555-640
108	?	child	?	2	1	glass, amber	B,F	Europe, Baltic	480-610	P1-P3	probable	3-4	530-640
127	female	?	neck	40	1	glass, amber	B,C,D,F	Europe, Near East, Baltic	550-600	P2-P3	certain	4	570-640
128	?	?	head end grave	2	1	glass	B	Europe	560-670	P3-P5	uncertain	4	570-640
132	female	child	neck	16	1	glass, amber	B,D,F	Europe, Near East, Baltic	560-610	P3	certain	3a	530-555
134	female	2-18	neck	20	1	glass	B	Europe	560-610	P3 (some P4)	certain	3b-4	555-640
142	?	?	hip	1	1	glass	A	Near East	480-530	P1	certain	2-3	450-570
149	female	0-10	neck	10	1	glass	B	Europe	600-640	P4	certain	4	570-640
152	male	?	corner of grave outside coffin	1	1	glass	B	Europe / Mediterranean	530-570	P2	certain	3b-4	555-640
154	?	?	centre grave: hip/stomach?	1	1	amber	F	Baltic	600-640	P4	probable	4b	610-640
156	female	?	neck	160	1	glass, amber	A,B,E,F	Europe, Near East, Egypt, Baltic	600-640	P4	certain	4b	610-640
160	female	?	legs, neck	1,69	2	glass, amber, meerschaum	B,F	Europe, Baltic, Mediterranean	480-610	P1-P3	certain	3a	530-555
161	female	?	hip, stomach	2, 3	2	glass	B	Europe	480-530	P1	certain	2	450-530
171	female	?	neck/chest	76	1	glass, amber	B,F	Europe, Baltic	550-600	P2-P3	certain	3b	555-570
179	female	10-18	neck/shoulder	7	1	glass	A, B	Europe, Near East	620-670	P5	certain	4b	610-640
194	female	?	neck	12	1	glass	B,D	Europe, Near East	600-650	P4-P5	certain	4a	570-610
199	?	child	left side	1	1	amber	F	Baltic	480-670	P1-P5	certain	3b-4	555-640
211	female	?	neck	2	1	glass	A	Near East	480-570	P1-P2	probable	3b	555-570
219	female	child	neck	84	1	glass, amber, silver	A,B,F	Europe, Near East, Baltic	480-530	P1	certain	2b	490-530
226	female	?	head/neck	3	1	glass, amber	B,F	Europe, Baltic	480-610	P1-P3	probable	3a	530-555
228	female	?	feet, hip/purse	1, 6	2	glass, amber	A,B,F	Europe, Near East, Baltic	530-570	P2	certain	3a	530-555

230	female	17-25	neck	16	1	glass, amber	B,F	Europe, Baltic	560-610	P3	certain	3	530-570
235	female	17-25	stomach, chest	5, 41	2	glass, amber, faience	A,B,F,G	Europe, Near East, Baltic, Roman	480-530	P1	certain	2b	490-530
239	female	?	head end grave	14	1	glass	A,B	Europe, Near East	600-640	P4	certain	4	570-640
244	male	adult	hip	1	1	glass	B	Europe	?	?	x	x	610-640
249	?	?	hip	1	1	glass	B	Europe	530-570	P2	probable	4	570-640
253	female	?	neck	23	1	glass	B,D	Europe, Near East	550-600	P2-P3	certain	3a	530-555
258	female	child	upper body	5	1	glass, amber	B,F	Europe, Baltic	550-600	P2-P3	probable	4a	570-610
266	female	?	scattered	15	1	glass	?	?	?	?	x	x	490-570
285	?	?	lower body	1	1	glass	B	Europe	600-640	P4	probable	4	570-640
304	?	?	scattered	3	3	glass	B	Europe	560-610	P3	probable	4	570-640
317	?	12	cremation	5	5	glass, rock crystal	B, F	Europe, Egypt (?)	480-570	P1-P2	probable	2a	450-500
324	?	20-40	cremation	1	1	glass	?	?	?	?	x	x	530-640

2.2. Results

2.2.1 P1

Table 2.2.1.1 Overview of monochrome and polychrome beads from P1 strings from the cemeteries of Lent-Lentseveld, Elst-'t Woud and Wijchen-Centrum.

	Lent			Elst			Wijchen			Total		
	Amount	*%*	*nr of graves*	*Amount*	*%*	*nr of graves*	*Amount*	*%*	*nr of graves*	*Amount*	*%*	*nr of graves*
Monochrome	89	84%	5	278	95%	6	129	93%	8	496	92%	19
Polychrome	17	16%	3	15	5%	5	10	7%	7	42	8%	15
Total	106	100%	5	293	100%	6	139	100%	10	538	100%	21

Table 2.2.1.2 Overview of techniques used in beads from P1 strings from the cemeteries of Lent-Lentseveld, Elst-'t Woud and Wijchen-Centrum.

		Lent			Elst			Wijchen			Total		
	technique	*Amount*	*%*	*nr of graves*	*Amount*	*%*	*nr of graves*	*Amount*	*%*	*nr of graves*	*Amount*	*%*	*nr of graves*
A	drawn	20	15%	5	173	38%	3	91	48%	6	284	36%	14
B	wound	73	54%	5	114	25%	5	46	24%	8	233	30%	18
C	folded	2	1%	1	0	0%	0	0	0%	0	2	0%	1
D	perforated	3	2%	2	3	1%	2	0	0%	0	6	1%	5
E	mosaic	4	3%	1	1	0%	1	0	0%	0	5	1%	2
F	cut	26	19%	5	162	36%	6	49	26%	4	237	30%	15
G	Roman/Prehistoric	6	4%	3	1	0%	1	5	3%	3	12	2%	7
	Total	134	100%	5	454	100%	6	191	100%	10	779	100%	21

Table 2.2.1.3 Overview of finishing techniques of drawn glass beads from P1 strings from the cemeteries of Lent-Lentseveld, Elst-'t Woud and Wijchen-Centrum.

		Lent			Elst			Wijchen			Total		
	technique	*Amount*	*%*	*nr of graves*	*Amount*	*%*	*nr of graves*	*Amount*	*%*	*nr of graves*	*Amount*	*%*	*nr of graves*
A	Cold cut/hot finish	4	20%	1	3	2%	1	1	1%	1	8	3%	3
A	Cold cut/no hot finish	2	10%	2	0	0%	0	0	0%	0	2	1%	2
A	Warm cut	3	15%	2	0	0%	0	0	0%	0	3	1%	2
A	Strangled	11	55%	4	170	98%	3	90	99%	6	271	95%	13
	Total	**20**	**100%**	**5**	**173**	**100%**	**3**	**91**	**100%**	**6**	**284**	**100%**	**14**

Table 2.2.1.4 Overview of opaque and translucent glass beads from P1 strings from the cemeteries of Lent-Lentseveld, Elst-'t Woud and Wijchen-Centrum.

P1	Lent			Elst			Wijchen			Total		
	Amount	*%*	*nr of graves*	*Amount*	*%*	*nr of graves*	*Amount*	*%*	*nr of graves*	*Amount*	*%*	*nr of graves*
Opaque	51	48%	5	210	72%	5	29	21%	4	290	54%	14
translucent	41	39%	4	73	25%	5	106	76%	8	220	41%	17
both	14	13%	3	10	3%	4	4	3%	4	28	5%	11
Total	**106**	**100%**	**5**	**293**	**100%**	**6**	**139**	**100%**	**10**	**538**	**100%**	**21**

Table 2.2.1.5 Overview of materials used in beads from P1 strings from the cemeteries of Lent-Lentseveld, Elst-'t Woud and Wijchen-Centrum.

	Lent			*Elst*			*Wijchen*			Total		
Material	nr of beads	%	nr of graves	nr of beads	%	nr of graves	nr of beads	%	nr of graves	nr of beads	%	nr of graves
glass	106	79%	5	293	64%	6	139	72%	10	538	69%	21
amber	23	17%	5	159	35%	6	49	25%	4	231	30%	15
beryl	1	1%	1	0	0%	0	0	0%	0	1	0%	1
faience	2	1%	2	1	0%	1	2	1%	1	5	1%	4
flint	0	0%	0	1	0%	1	0	0%	0	1	0%	1
jet/lignite	0	0%	0	2	0%	1	0	0%	0	2	0%	1
marble	1	1%	1	0	0%	0	0	0%	0	1	0%	1
samian ware	1	1%	1	0	0%	0	1	1%	1	2	0%	2
silver	0	0%	0	0	0%	0	2	1%	2	2	0%	2
total	**134**	100%	**5**	**456**	100%	**6**	**193**	100%	**10**	783	100%	21

Table 2.2.1.6 Overview of provenances of beads from P1 strings from the cemeteries of Lent-Lentseveld, Elst-'t Woud and Wijchen-Centrum.

Grave	Date	Period	Europe	%	Baltic	%	Mediterranean	%	Egypt/Syro-Palestinian Coast	%	Mesopotamia	%	India	%	Roman	%	Unknown	%	Total Nr of beads
L-21	480-530	P1	4	33%	1	8%	0	0%	6	50%	0	0%	0	0%	1	8%	0	0%	**12**
L-23	480-530	P1	27	84%	1	3%	0	0%	2	6%	0	0%	0	0%	2	6%	0	0%	**32**
L-36	480-530	P1	3	27%	1	9%	0	0%	7	64%	0	0%	0	0%	0	0%	0	0%	**11**
L-2	480-530	P1	21	40%	18	35%	0	0%	8	15%	4	8%	0	0%	1	2%	0	0%	**52**
L-16	480-530	P1	19	70%	2	7%	0	0%	3	11%	0	0%	0	0%	2	7%	1	4%	**27**
E-112	480-530	P1	22	63%	11	31%	0	0%	2	6%	0	0%	0	0%	0	0%	0	0%	**35**
E-118	480-530	P1	6	15%	24	62%	0	0%	9	23%	0	0%	0	0%	0	0%	0	0%	**39**
E-135	480-530	P1	2	67%	1	33%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	**3**
E-175	480-530	P1	42	21%	92	46%	0	0%	64	32%	3	1%	0	0%	0	0%	0	0%	**201**
E-201	480-530	P1	0	0%	4	57%	0	0%	1	14%	0	0%	0	0%	1	14%	1	14%	**7**
E-216	480-530	P1	45	26%	28	16%	0	0%	98	57%	0	0%	0	0%	0	0%	0	0%	**171**
W-10	480-530	P1	1	100%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	**1**
W-29	480-530	P1	1	8%	10	83%	1	8%	0	0%	0	0%	0	0%	0	0%	0	0%	**12**
W-40	480-530	P1	2	100%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	**2**
W-50	480-530	P1	0	0%	0	0%	0	0%	1	50%	0	0%	0	0%	1	50%	0	0%	**2**
W-52	480-530	P1	17	44%	9	23%	0	0%	11	28%	0	0%	1	3%	1	3%	0	0%	**39**
W-81	480-530	P1	1	100%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	**1**
W-142	480-530	P1	0	0%	0	0%	0	0%	1	100%	0	0%	0	0%	0	0%	0	0%	**1**
W-161	480-530	P1	5	100%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	**5**
W-219	480-530	P1	5	6%	13	15%	0	0%	63	75%	0	0%	0	0%	0	0%	3	4%	**84**
W-235	480-530	P1	14	30%	17	37%	0	0%	13	28%	0	0%	0	0%	2	4%	0	0%	**46**
Total	**480-530**	**P1**	**273**	**35%**	**232**	**30%**	**1**	**0%**	**289**	**37%**	**7**	**1%**	**1**	**0%**	**11**	**1%**	**5**	**1%**	**783**

2.2.2 P1-P2

Table 2.2.2.1 Overview of monochrome and polychrome beads from P1-P2 strings from the cemeteries of Lent-Lentseveld, Elst-'t Woud and Wijchen-Centrum.

	Lent			Elst			Wijchen			Total		
	Amount	*%*	*nr of graves*	*Amount*	*%*	*nr of graves*	*Amount*	*%*	*nr of graves*	*Amount*	*%*	*nr of graves*
Monochrome	489	87%	9	18	78%	1	5	71%	2	512	86%	12
Polychrome	73	13%	9	5	22%	1	2	29%	2	80	14%	12
Total	562	100%	9	23	100%	1	7	100%	3	592	100%	13

Table 2.2.2.2 Overview of techniques used in beads from P1-P2 strings from the cemeteries of Lent-Lentseveld, Elst-'t Woud and Wijchen-Centrum.

	P1-P2	Lent			Elst			Wijchen			Total		
	technique	*Amount*	*%*	*nr of graves*	*Amount*	*%*	*nr of graves*	*Amount*	*%*	*nr of graves*	*Amount*	*%*	*nr of graves*
A	drawn	98	15%	6	5	14%	1	2	25%	1	105	15%	8
B	wound	412	64%	9	8	22%	1	5	63%	2	425	62%	12
C	folded	11	2%	4	0	0%	0	0	0%	0	11	2%	4
D	perforated	23	4%	2	7	19%	1	0	0%	0	30	4%	3
E	mosaic	18	3%	6	3	8%	1	0	0%	0	21	3%	7
F	cut	82	13%	8	14	38%	1	1	13%	1	97	14%	10
G	Roman/Prehistoric	2	0%	2	0	0%	0	0	0%	0	2	0%	2
	Total	646	100%	9	37	100%	1	8	100%	3	691	100%	13

Table 2.2.2.3 Overview of finishing techniques of drawn glass beads from P1-P2 strings from the cemeteries of Lent-Lentseveld, Elst-'t Woud and Wijchen-Centrum.

	P1-P2	Lent			Elst			Wijchen			Total		
	technique	*Amount*	*%*	*nr of graves*	*Amount*	*%*	*nr of graves*	*Amount*	*%*	*nr of graves*	*Amount*	*%*	*nr of graves*
A	Cold cut/hot finish	10	11%	2	0	0%	0	0	0%	0	10	10%	2
A	Cold cut/no hot finish	6	7%	2	0	0%	0	0	0%	0	6	6%	2
A	Warm cut	14	15%	4	0	0%	0	0	0%	0	14	14%	4
A	Strangled	61	67%	4	5	100%	1	2	100%	1	68	69%	4
	Total	91	100%	6	5	100%	1	2	100%	1	98	100%	8

Table 2.2.2.4 Overview of opaque and translucent glass beads from P1-P2 strings from the cemeteries of Lent-Lentseveld, Elst-'t Woud and Wijchen-Centrum.

P1-P2	Lent			Elst			Wijchen			Total		
	Amount	*%*	*nr of graves*	*Amount*	*%*	*nr of graves*	*Amount*	*%*	*nr of graves*	*Amount*	*%*	*nr of graves*
Opaque	340	60%	9	6	26%	1	2	29%	2	348	59%	12
translucent	168	30%	9	13	57%	1	2	29%	1	183	31%	11
both	54	10%	9	4	17%	1	3	43%	3	61	10%	13
Total	562	100%	9	23	100%	1	7	100%	3	592	100%	13

Table 2.2.2.5 Overview of materials used in beads from P1-P2 strings from the cemeteries of Lent-Lentseveld, Elst-'t Woud and Wijchen-Centrum.

P1-P2	*Lent*			*Elst*			*Wijchen*			Total		
Material	nr of beads	%	nr of graves	nr of beads	%	nr of graves	nr of beads	%	nr of graves	nr of beads	%	nr of graves
glass	562	87%	9	23	62%	1	7	88%	3	592	86%	13
amber	79	12%	8	14	38%	1	0	0%	0	93	13%	9
faience	2	0%	2	0	0%	0	0	0%	0	2	0%	2
marble	2	0%	2	0	0%	0	0	0%	0	2	0%	2
meerschaum	1	0%	1	0	0%	0	0	0%	0	1	0%	1
rock crystal	0	0%	0	0	0%	0	1	13%	1	1	0%	1
total	646	100%	9	37	100%	1	8	100%	3	691	100%	13

Table 2.2.2.6 Overview of provenances of beads from P1-P2 strings from the cemeteries of Lent-Lentseveld, Elst-'t Woud and Wijchen-Centrum.

Grave	Date	Period	Europe	%	Baltic	%	Mediterranean	%	Egypt/Syro-Palestinian Coast	%	Mesopotamia	%	India	%	Roman	%	Unknown	%	Total Nr of beads
L-9	500-550	P1-P2	15	60%	6	24%	0	0%	4	16%	0	0%	0	0%	0	0%	0	0%	**25**
L-20	500-550	P1-P2	66	71%	8	9%	0	0%	9	10%	9	10%	0	0%	0	0%	1	0%	**93**
L-28	500-550	P1-P2	109	100%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	**109**
L-34	500-550	P1-P2	99	94%	2	2%	1	1%	3	3%	0	0%	0	0%	0	0%	0	0%	**105**
L-35	500-550	P1-P2	23	55%	15	36%	0	0%	4	10%	0	0%	0	0%	0	0%	0	0%	**42**
L-40	500-550	P1-P2	33	28%	15	13%	0	0%	47	39%	12	10%	1	1%	1	1%	11	9%	**120**
L-42	500-550	P1-P2	20	71%	4	14%	0	0%	4	14%	0	0%	0	0%	0	0%	0	0%	**28**
L-50	500-550	P1-P2	11	55%	6	30%	0	0%	2	10%	0	0%	0	0%	0	0%	1	5%	**20**
L-13	500-550	P1-P2	37	36%	23	22%	0	0%	36	35%	0	0%	5	5%	0	0%	3	3%	**104**
E-208	500-550	P1-P2	8	22%	14	38%	0	0%	15	41%	0	0%	0	0%	0	0%	0	0%	**37**
W-99	500-550	P1-P2	1	100%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	**1**
W-211	500-550	P1-P2	0	0%	0	0%	0	0%	2	100%	0	0%	0	0%	0	0%	0	0%	**2**
W- 317	480-550	P1-P2	4	80%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	1	20%	**5**
Total	**480-550**	**P1-P2**	**426**	62%	**93**	13%	**1**	0%	**126**	18%	**21**	3%	**6**	1%	**1**	0%	**17**	**2%**	**691**

2.2.3 P2

Table 2.2.3.1 Overview of monochrome and polychrome beads from P2 strings from the cemeteries of Lent-Lentseveld, Elst-'t Woud and Wijchen-Centrum.

P2	Lent			Elst			Wijchen			Total		
	Amount	*%*	*nr of graves*	*Amount*	*%*	*nr of graves*	*Amount*	*%*	*nr of graves*	*Amount*	*%*	*nr of graves*
Monochrome	255	83%	7	223	79%	9	3	43%	1	481	81%	17
Polychrome	52	17%	7	58	21%	8	4	57%	3	114	19%	18
Total	307	100%	8	281	100%	10	7	100%	3	595	100%	21

Table 2.2.3.2 Overview of techniques used in beads from P2 strings from the cemeteries of Lent-Lentseveld, Elst-'t Woud and Wijchen-Centrum.

	P2	Lent			Elst			Wijchen			Total		
	technique	*Amount*	*%*	*nr of graves*	*Amount*	*%*	*nr of graves*	*Amount*	*%*	*nr of graves*	*Amount*	*%*	*nr of graves*
A	drawn	69	20%	5	67	17%	7	2	22%	1	138	18%	13
B	wound	210	60%	7	156	40%	10	5	56%	3	371	50%	20
C	folded	11	3%	3	6	2%	2	0	0%	0	17	2%	5
D	perforated	1	0%	1	39	10%	6	0	0%	0	40	5%	7
E	mosaic	16	5%	3	11	3%	4	0	0%	0	27	4%	8
F	cut	44	13%	6	106	27%	7	2	22%	1	152	20%	14
G	Roman/Prehistoric	1	0%	1	1	0%	1	0	0%	0	2	0%	2
	Total	352	100%	8	386	100%	10	9	100%	3	747	100%	21

Table 2.2.3.3 Overview of finishing techniques of drawn glass beads from P2 strings from the cemeteries of Lent-Lentseveld, Elst-'t Woud and Wijchen-Centrum.

	P2	Lent			Elst			Wijchen			Total		
	technique	*Amount*	*%*	*nr of graves*	*Amount*	*%*	*nr of graves*	*Amount*	*%*	*nr of graves*	*Amount*	*%*	*nr of graves*
A	Cold cut/hot finish	1	2%	1	0	0%	0	0	0%	0	1	1%	1
A	Cold cut/no hot finish	0	0%	0	0	0%	0	0	0%	0	0	0%	0
A	Warm cut	5	8%	1	0	0%	0	0	0%	0	5	4%	1
A	Strangled	56	90%	5	67	100%	7	2	100%	1	125	95%	13
	Total	62	100%	5	67	100%	7	2	100%	1	131	100%	14

Table 2.2.3.4 Overview of opaque and translucent glass beads from P2 strings from the cemeteries of Lent-Lentseveld, Elst-'t Woud and Wijchen-Centrum.

P2	Lent			Elst			Wijchen			Total		
	Amount	*%*	*nr of graves*	*Amount*	*%*	*nr of graves*	*Amount*	*%*	*nr of graves*	*Amount*	*%*	*nr of graves*
Opaque	214	70%	6	161	57%	10	4	57%	2	379	64%	20
translucent	56	18%	6	76	27%	5	2	29%	1	134	23%	12
both	37	12%	7	44	16%	7	1	14%	1	82	14%	15
Total	**307**	**100%**	**8**	**281**	**100%**	**10**	**7**	**100%**	**3**	**595**	**100%**	**21**

Table 2.2.3.5 Overview of materials used in beads from P2 strings from the cemeteries of Lent-Lentseveld, Elst-'t Woud and Wijchen-Centrum.

P2	*Lent*			*Elst*			*Wijchen*			Total		
Material	nr of beads	%	nr of graves	nr of beads	%	nr of graves	nr of beads	%	nr of graves	nr of beads	%	nr of graves
glass	307	87%	8	281	72%	10	7	78%	3	595	79%	21
amber	43	12%	6	105	27%	7	2	22%	1	150	20%	14
faience	1	0%	1	1	0%	1	0	0%	0	2	0%	2
meerschaum	0	0%	0	1	0%	1	0	0%	0	1	0%	1
metal	1	0%	1	0	0%	0	0	0%	0	1	0%	1
rock crystal	1	0%	1	0	0%	0	0	0%	0	1	0%	1
unknown	1	0%	1	0	0%	0	0	0%	0	1	0%	1
total	**354**	**100%**	**8**	**388**	**100%**	**10**	**9**	**100%**	**3**	**751**	**100%**	**21**

Table 2.2.3.6 Overview of provenances of beads from P2 strings from the cemeteries of Lent-Lentseveld, Elst-'t Woud and Wijchen-Centrum.

Grave	Date	Period	Europe	%	Baltic	%	Mediterranean	%	Egypt/Syro-Palestinian Coast	%	Mesopotamia	%	India	%	Roman	%	Unknown	%	Total Nr of beads
L-26	530-570	P2	66	67%	15	15%	0	0%	17	17%	0	0%	0	0%	0	0%	0	0%	98
L-27	530-570	P2	6	86%	0	0%	0	0%	0	0%	0	0%	0	0%	1	14%	0	0%	7
L-41	530-570	P2	21	78%	5	19%	1	4%	0	0%	0	0%	0	0%	0	0%	0	0%	27
L-43	530-570	P2	43	56%	5	6%	0	0%	29	38%	0	0%	0	0%	0	0%	0	0%	77
L-53	530-570	P2	36	54%	9	13%	0	0%	21	31%	0	0%	1	1%	0	0%	0	0%	67
L-55	530-570	P2	2	40%	1	20%	0	0%	2	40%	0	0%	0	0%	0	0%	0	0%	5
L-112	530-570	P2	0	0%	0	0%	0	0%	1	100%	0	0%	0	0%	0	0%	0	0%	1
L-5	530-570	P2	37	51%	8	11%	0	0%	27	38%	0	0%	0	0%	0	0%	0	0%	72
E-87	530-570	P2	49	61%	13	16%	0	0%	18	23%	0	0%	0	0%	0	0%	0	0%	80
E-92	530-570	P2	6	46%	4	31%	0	0%	3	23%	0	0%	0	0%	0	0%	0	0%	13
E-127	530-570	P2	51	41%	40	32%	3	2%	30	24%	0	0%	0	0%	0	0%	0	0%	124
E-155	530-570	P2	9	35%	10	38%	1	4%	5	19%	0	0%	0	0%	1	4%	0	0%	26
E-161	530-570	P2	11	13%	35	42%	1	1%	36	43%	0	0%	0	0%	0	0%	1	1%	84
E-162	530-570	P2	21	49%	0	0%	0	0%	22	51%	0	0%	0	0%	0	0%	0	0%	43
E-204	530-570	P2	1	100%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	1
E-234	530-570	P2	3	27%	1	9%	0	0%	7	64%	0	0%	0	0%	0	0%	0	0%	11
E-235	530-570	P2	1	25%	1	25%	0	0%	2	50%	0	0%	0	0%	0	0%	0	0%	4
E-136	550-570	P2b	2	100%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	2
W-152	530-570	P2	0	0%	0	0%	1	100%	0	0%	0	0%	0	0%	0	0%	0	0%	1
W-228	530-570	P2	3	43%	2	29%	0	0%	2	29%	0	0%	0	0%	0	0%	0	0%	7
W-249	530-570	P2	1	100%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	1
total	530-570	P2	369	49%	149	20%	7	1%	222	30%	0	0%	1	0%	2	0%	1	0%	751

2.2.4 P2-P3

Table 2.2.4.1 Overview of monochrome and polychrome beads from P2-P3 strings from the cemeteries of Lent-Lentseveld, Elst-'t Woud and Wijchen-Centrum.

P2-P3	Lent			Elst			Wijchen			Total		
	Amount	*%*	*nr of graves*	*Amount*	*%*	*nr of graves*	*Amount*	*%*	*nr of graves*	*Amount*	*%*	*nr of graves*
Monochrome	22	61%	1	152	84%	3	100	79%	5	274	80%	9
Polychrome	14	39%	1	28	16%	3	26	21%	5	68	20%	9
Total	**36**	**100%**	**1**	180	**100%**	3	**126**	**100%**	**5**	**342**	**100%**	**8**

Table 2.2.4.2 Overview of techniques used in beads from P2-P3 strings from the cemeteries of Lent-Lentseveld, Elst-'t Woud and Wijchen-Centrum.

	P2-P3	Lent			Elst			Wijchen			Total		
	technique	*Amount*	*%*	*nr of graves*	*Amount*	*%*	*nr of graves*	*Amount*	*%*	*nr of graves*	*Amount*	*%*	*nr of graves*
A	drawn	0	0%	0	3	1%	2	5	3%	1	8	2%	3
B	wound	34	94%	1	134	56%	3	111	71%	5	279	63%	9
C	folded	0	0%	0	20	8%	2	3	2%	2	23	5%	4
D	perforated	1	3%	1	15	6%	2	7	4%	3	23	5%	6
E	mosaic	0	0%	0	9	4%	3	0	0%	0	9	2%	3
F	cut	10	28%	1	57	24%	2	30	19%	4	97	22%	7
G	Roman/Prehistoric	1	3%	1	0	0%	0	0	0%	0	1	0%	1
	Total	**36**	**100%**	**1**	**239**	**100%**	**3**	**156**	**100%**	**5**	**440**	**100%**	**9**

Table 2.2.4.3 Overview of finishing techniques of drawn glass beads from P2-P3 strings from the cemeteries of Lent-Lentseveld, Elst-'t Woud and Wijchen-Centrum.

	P2-P3	Lent			Elst			Wijchen			Total		
	technique	*Amount*	*%*	*nr of graves*	*Amount*	*%*	*nr of graves*	*Amount*	*%*	*nr of graves*	*Amount*	*%*	*nr of graves*
A	Cold cut/hot finish	0	0%	0	0	0%	0	0	0%	0	0	0%	0
A	Cold cut/no hot finish	0	0%	0	0	0%	0	0	0%	0	0	0%	0
A	Warm cut	0	0%	0	1	33%	1	0	0%	0	1	13%	1
A	Strangled	0	0%	0	2	67%	1	5	100%	1	7	88%	2
	Total	**0**	0%	**0**	**3**	100%	**2**	**5**	100%	**1**	**8**	100%	**3**

Table 2.2.4.4 Overview of opaque and translucent glass beads from P2 strings from the cemeteries of Lent-Lentseveld, Elst-'t Woud and Wijchen-Centrum.

P2-P3	Lent			Elst			Wijchen			Total		
	Amount	*%*	*nr of graves*	*Amount*	*%*	*nr of graves*	*Amount*	*%*	*nr of graves*	*Amount*	*%*	*nr of graves*
Opaque	22	61%	1	151	84%	3	115	91%	5	288	84%	9
translucent	6	17%	1	11	6%	2	5	4%	3	22	6%	6
both	8	22%	1	18	10%	3	6	5%	4	32	9%	8
Total	36	100%	1	180	100%	3	126	100%	5	342	100%	9

Table 2.2.4.5 Overview of materials used in beads from P2-P3 strings from the cemeteries of Lent-Lentseveld, Elst-'t Woud and Wijchen-Centrum.

P2-P3	*Lent*			*Elst*			*Wijchen*			Total		
Material	nr of beads	%	nr of graves	nr of beads	%	nr of graves	nr of beads	%	nr of graves	nr of beads	%	nr of graves
glass	36	78%	1	180	75%	3	126	81%	5	342	78%	9
amber	10	22%	1	57	24%	2	30	19%	4	97	22%	7
copper alloy	0	0%	0	1	0%	1	0	0%	0	1	0%	1
flint	0	0%	0	1	0%	1	0	0%	0	1	0%	1
total	46	100%	1	239	100%	3	156	100%	5	441	100%	9

Table 2.2.4.6 Overview of provenances of beads from P2-P3 strings from the cemeteries of Lent-Lentseveld, Elst-'t Woud and Wijchen-Centrum.

Grave	Date	Period	Europe	%	Baltic	%	Mediterranean	%	Egypt/Syro-Palestinian Coast	%	Mesopotamia	%	India	%	Roman	%	Unknown	%	Total Nr of beads
L-51	530-610	P2-P3	34	74%	10	22%	0	0%	1	2%	0	0%	0	0%	0	0%	1	2%	46
E-88	550-600	P2-P3	72	71%	5	5%	1	1%	23	23%	0	0%	0	0%	0	0%	0	0%	101
E-211	550-600	P2-P3	7	70%	0	0%	0	0%	3	30%	0	0%	0	0%	0	0%	0	0%	10
E- 238	550-600	P2-P3	56	44%	52	41%	0	0%	20	16%	0	0%	0	0%	0	0%	0	0%	128
W-65	550-600	P2-P3	8	25%	16	50%	0	0%	7	22%	0	0%	0	0%	0	0%	1	3%	32
W-127	550-600	P2-P3	30	75%	5	13%	0	0%	5	13%	0	0%	0	0%	0	0%	0	0%	40
W-171	550-600	P2-P3	49	88%	7	13%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	56
W-253	550-600	P2-P3	20	87%	0	0%	0	0%	3	13%	0	0%	0	0%	0	0%	0	0%	23
W-258	550-600	P2-P3	3	60%	2	40%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	5
Total	550-600	P2-P3	279	63%	97	22%	1	0%	62	14%	0	0%	0	0%	0	0%	2	0%	441

2.2.5 P3

Table 2.2.5.1 Overview of monochrome and polychrome beads from P3 strings from the cemeteries of Elst-'t Woud and Wijchen-Centrum.

P3	Elst			Wijchen			Total		
	Amount	*%*	*nr of graves*	*Amount*	*%*	*nr of graves*	*Amount*	*%*	*nr of graves*
Monochrome	284	76%	5	40	68%	7	324	75%	12
Polychrome	90	24%	5	19	32%	7	109	25%	12
Total	374	100%	5	59	100%	8	433	100%	13

Table 2.2.5.2 Overview of techniques used in beads from P3 strings from the cemeteries of Elst-'t Woud and Wijchen-Centrum.

	P2-P3	Elst			Wijchen			Total		
	technique	*Amount*	*%*	*nr of graves*	*Amount*	*%*	*nr of graves*	*Amount*	*%*	*nr of graves*
A	drawn	1	0%	1	0	0%	0	1	0%	1
B	wound	334	86%	5	58	88%	6	392	86%	11
C	folded	11	3%	4	0	0%	0	11	2%	4
D	perforated	17	4%	4	1	2%	1	18	4%	5
E	mosaic	3	1%	1	0	0%	0	3	1%	1
F	cut	21	5%	2	7	11%	2	28	6%	4
G	Roman/Prehistoric	2	1%	1	0	0%	0	2	0%	1
	Total	389	100%	5	66	100%	8	455	100%	13

Table 2.2.5.3 Overview of finishing techniques of drawn glass beads from P3 strings from the cemeteries of Elst-'t Woud and Wijchen-Centrum.

	P3	Elst			Wijchen			Total		
	technique	*Amount*	*%*	*nr of graves*	*Amount*	*%*	*nr of graves*	*Amount*	*%*	*nr of graves*
A	Cold cut/hot finish	0	0%	0	0	0%	0	0	0%	0
A	Cold cut/no hot finish	0	0%	0	0	0%	0	0	0%	0
A	Warm cut	0	0%	0	0	0%	0	0	0%	0
A	Strangled	1	100%	1	0	0%	0	1	100%	1
	Total	1	100%	1	0	0%	0	1	100%	1

Table 2.2.5.4 Overview of opaque and translucent glass beads from P3 strings from the cemeteries of Elst-'t Woud and Wijchen-Centrum.

P3	Elst			Wijchen			Total		
	Amount	*%*	*nr of graves*	*Amount*	*%*	*nr of graves*	*Amount*	*%*	*nr of graves*
Opaque	298	80%	5	49	83%	8	347	80%	13
translucent	37	10%	5	3	5%	2	40	9%	7
both	39	10%	5	7	12%	2	46	11%	7
Total	374	100%	5	59	100%	8	433	100%	13

Table 2.2.5.5 Overview of materials used in beads from P3 strings from the cemeteries of Elst-'t Woud and Wijchen-Centrum.

P3	*Elst*			*Wijchen*			Total		
Material	nr of beads	%	nr of graves	nr of beads	%	nr of graves	nr of beads	%	nr of graves
glass	374	94%	5	59	89%	8	433	94%	13
amber	21	5%	2	7	11%	2	28	6%	4
faience	2	1%	1	0	0%	0	2	0%	1
total	397	100%	5	66	100%	8	463	100%	13

Table 2.2.5.6 Overview of provenances of beads from P3 strings from the cemeteries of Elst-'t Woud and Wijchen-Centrum.

Grave	Date	Period	Europe	%	Baltic	%	Mediterranean	%	Egypt/Syro-Palestinian Coast	%	Mesopotamia	%	India	%	Roman	%	Unknown	%	Total Nr of beads
E-81	570-610	P3	108	90%	4	3%	0	0%	4	3%	0	0%	0	0%	0	0%	4	3%	120
E-82	570-610	P3	27	82%	0	0%	0	0%	6	18%	0	0%	0	0%	0	0%	0	0%	33
E-129	560-610	P3	7	100%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	7
E-193	560-610	P3	12	86%	0	0%	0	0%	2	14%	0	0%	0	0%	0	0%	0	0%	14
E-249	560-610	P3	179	80%	17	8%	2	1%	19	9%	0	0%	0	0%	2	1%	4	2%	223
W-9	560-610	P3	2	100%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	2
W-37	560-610	P3	1	100%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	1
W-102	560-610	P3	2	100%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	2
W-104	560-610	P3	6	100%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	6
W-132	560-610	P3	14	88%	1	6%	0	0%	1	6%	0	0%	0	0%	0	0%	0	0%	16
W-134	560-610	P3	20	100%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	20
W-230	560-610	P3	10	63%	6	38%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	16
W-304	560-610	P3	3	100%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	3
total	560-610	P3	391	84%	28	6%	2	0%	32	7%	0	0%	0	0%	2	0%	8	2%	463

2.2.6 P3-P4

Table 2.2.6.1 Overview of monochrome and polychrome beads from P3-P4 strings from the cemeteries of Elst-'t Woud and Wijchen-Centrum.

P3-P4	Elst			Wijchen			Total		
	Amount	*%*	*nr of graves*	*Amount*	*%*	*nr of graves*	*Amount*	*%*	*nr of graves*
Monochrome	35	92%	2	89	79%	5	124	83%	7
Polychrome	3	8%	1	23	21%	3	26	17%	4
Total	38	100%	2	112	100%	5	150	100%	7

Table 2.2.6.2 Overview of materials used in beads from P3-P4 strings from the cemeteries of Elst-'t Woud and Wijchen-Centrum.

	P3-P4	Elst			Wijchen			Total		
	technique	*Amount*	*%*	*nr of graves*	*Amount*	*%*	*nr of graves*	*Amount*	*%*	*nr of graves*
A	drawn	1	2%	1	20	14%	3	21	11%	4
B	wound	37	82%	2	93	65%	5	130	69%	7
C	folded	0	0%	0	0	0%	0	0	0%	0
D	perforated	0	0%	0	0	0%	0	0	0%	0
E	mosaic	0	0%	0	0	0%	0	0	0%	0
F	cut	7	16%	2	31	22%	4	38	20%	6
G	Roman/Prehistoric	0	0%	0	0	0%	0	0	0%	0
	Total	45	100%	2	144	100%	5	189	100%	7

Table 2.2.6.3 Overview of finishing techniques of drawn glass beads from P3-P4 strings from the cemeteries of Elst-'t Woud and Wijchen-Centrum.

	P3-P4	Elst			Wijchen			Total		
	technique	*Amount*	*%*	*nr of graves*	*Amount*	*%*	*nr of graves*	*Amount*	*%*	*nr of graves*
A	Cold cut/hot finish	0	0%	0	15	75%	3	15	71%	3
A	Cold cut/no hot finish	0	0%	0	0	0%	0	0	0%	0
A	Warm cut	1	100%	1	0	0%	0	1	5%	1
A	Strangled	0	0%	0	5	25%	1	5	24%	1
	Total	1	100%	1	20	100%	3	21	100%	4

Table 2.2.6.4 Overview of opaque and translucent glass beads from P3-P4 strings from the cemeteries of Elst-'t Woud and Wijchen-Centrum.

P3-P4	Elst			Wijchen			Total		
	Amount	*%*	*nr of graves*	*Amount*	*%*	*nr of graves*	*Amount*	*%*	*nr of graves*
Opaque	33	87%	2	65	58%	5	98	65%	7
translucent	3	8%	1	41	37%	4	44	29%	5
both	2	5%	1	6	5%	1	8	5%	2
Total	38	100%	2	112	100%	5	150	100%	7

Table 2.2.6.5 Overview of materials used in beads from P3-P4 strings from the cemeteries of Elst-'t Woud and Wijchen-Centrum.

P3-P4	*Elst*			*Wijchen*			Total		
Material	nr of beads	%	nr of graves	nr of beads	%	nr of graves	nr of beads	%	nr of graves
glass	38	84%	2	134	81%	5	172	82%	7
amber	7	16%	2	31	19%	4	38	18%	6
silver	0	0%	0	1	1%	1	1	0%	1
total	45	100%	2	166	100%	5	211	100%	7

Table 2.2.6.6 Overview of provenances of beads from P3-P4 strings from the cemeteries of Elst-'t Woud and Wijchen-Centrum.

Grave	Date	Period	Europe	%	Baltic	%	Mediterranean	%	Egypt/Syro-Palestinian Coast	%	Mesopotamia	%	India	%	Roman	%	Unknown	%	Total Nr of beads
E-91	580-620	P3-P4	35	85%	6	15%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	41
E-242	590-620	P3-P4	2	50%	1	25%	0	0%	1	25%	0	0%	0	0%	0	0%	0	0%	4
W-34	570-620	P3-P4	61	54%	26	23%	0	0%	0	0%	4	4%	0	0%	0	0%	22	19%	113
W-45	570-620	P3-P4	5	100%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	5
W-49	570-620	P3-P4	4	80%	1	20%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	5
W-98	570-620	P3-P4	16	55%	3	10%	0	0%	0	0%	10	34%	0	0%	0	0%	0	0%	29
W-106	580-620	P3-P4	7	50%	1	7%	0	0%	5	36%	1	7%	0	0%	0	0%	0	0%	14
total	580-620	P3-P4	130	62%	38	18%	0	0%	6	3%	15	7%	0	0%	0	0%	22	10%	211

2.2.7 P4

Table 2.2.7.1 Overview of monochrome and polychrome beads from P4 strings from the cemeteries of Elst-'t Woud and Wijchen-Centrum.

P4	Elst			Wijchen			Total		
	Amount	*%*	*nr of graves*	*Amount*	*%*	*nr of graves*	*Amount*	*%*	*nr of graves*
Monochrome	65	98%	5	198	93%	9	263	94%	14
Polychrome	1	2%	1	16	7%	4	17	6%	5
Total	66	100%	5	214	100%	9	280	100%	14

Table 2.2.7.2 Overview of materials used in beads from P4 strings from the cemeteries of Elst-'t Woud and Wijchen-Centrum.

	P4	Elst			Wijchen			Total		
	technique	*Amount*	*%*	*nr of graves*	*Amount*	*%*	*nr of graves*	*Amount*	*%*	*nr of graves*
A	drawn	0	0%	0	49	22%	3	49	17%	3
B	wound	65	98%	5	160	73%	9	225	79%	14
C	folded	0	0%	0	0	0%	0	0	0%	0
D	perforated	1	2%	1	0	0%	0	1	0%	1
E	mosaic	0	0%	0	1	0%	1	1	0%	1
F	cut	0	0%	0	7	3%	5	7	2%	5
G	Roman/Prehistoric	0	0%	0	1	0%	1	1	0%	1
	Total	66	100%	5	218	100%	10	284	100%	15

Table 2.2.7.3 Overview of finishing techniques of drawn glass beads from P4 strings from the cemeteries of Elst-'t Woud and Wijchen-Centrum.

	P4	Elst			Wijchen			Total		
	technique	*Amount*	*%*	*nr of graves*	*Amount*	*%*	*nr of graves*	*Amount*	*%*	*nr of graves*
A	Cold cut/hot finish	0	0%	0	47	96%	2	47	96%	2
A	Cold cut/no hot finish	0	0%	0	0	0%	0	0	0%	0
A	Warm cut	0	0%	0	0	0%	0	0	0%	0
A	Strangled	0	0%	0	2	4%	1	2	4%	1
	Total	0	0%	0	49	100%	3	49	100%	3

Table 2.2.7.4 Overview of opaque and translucent glass beads from P4 strings from the cemeteries of Elst-'t Woud and Wijchen-Centrum.

P4	Elst			Wijchen			Total		
	Amount	*%*	*nr of graves*	*Amount*	*%*	*nr of graves*	*Amount*	*%*	*nr of graves*
Opaque	49	74%	5	133	62%	8	182	65%	13
translucent	16	24%	3	75	35%	6	91	33%	9
both	1	2%	1	6	3%	3	7	3%	4
Total	66	100%	5	214	100%	9	280	100%	14

Table 2.2.7.5 Overview of materials used in beads from P4 strings from the cemeteries of Elst-'t Woud and Wijchen-Centrum.

P4	*Elst*			*Wijchen*			Total		
Material	nr of beads	%	nr of graves	nr of beads	%	nr of graves	nr of beads	%	nr of graves
glass	66	99%	5	211	96%	9	277	97%	14
amber	0	0%	0	7	3%	5	7	2%	5
ceramic	1	1%	1	0	0%	0	1	0%	1
faience	0	0%	0	1	0%	1	1	0%	1
silver	0	0%	0	1	0%	1	1	0%	1
total	67	100%	5	220	100%	10	287	100%	15

Table 2.2.7.6 Overview of provenances of beads from P4 strings from the cemeteries of Elst-'t Woud and Wijchen-Centrum.

Grave	Date	Period	Europe	%	Baltic	%	Mediterranean	%	Egypt/Syro-Palestinian Coast	%	Mesopotamia	%	India	%	Roman	%	Unknown	%	Total Nr of beads
E-152	600-640	P4	1	100%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	1
E-192	600-640	P4	12	100%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	12
E-210	600-640	P4	33	100%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	33
E-214	600-640	P4	9	90%	0	0%	0	0%	1	10%	0	0%	0	0%	0	0%	0	0%	10
E-243	600-640	P4	11	100%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	11
W-5	600-640	P4	21	95%	1	5%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	22
W-55	600-640	P4	5	83%	1	17%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	6
W-59	600-640	P4	1	50%	0	0%	0	0%	0	0%	0	0%	0	0%	1	50%	0	0%	2
W-75	600-640	P4	1	100%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	1
W-92	600-640	P4	9	69%	2	15%	0	0%	2	15%	0	0%	0	0%	0	0%	0	0%	13
W-149	600-640	P4	10	100%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	10
W-154	600-640	P4	0	0%	1	100%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	1
W-156	600-640	P4	100	63%	2	1%	0	0%	0	0%	46	29%	0	0%	0	0%	11	7%	160
W-239	600-640	P4	13	93%	0	0%	0	0%	0	0%	1	7%	0	0%	0	0%	0	0%	14
W-285	600-640	P4	1	100%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	1
total	600-640	P4	227	76%	7	2%	0	0%	3	1%	47	16%	0	0%	1	0%	11	4%	297

2.3. Colours and Decoration

2.3.1 Bead colours

Light	Middle	Dark	
Red			Amber
Yellow			White
Orange			Black
Purple			Silver
Green			Gold
Green-Blue			Colourless
Blue			
Blue-Green			

2.3.2 Decoration patterns

Appendix 2.4 Bead-types found in Lent-Lentseveld, Elst-‘t Woud and Wijchen-Centrum

5mm
A1.1-?
A1.1-01
A1.2-01
A1.2-04
A1.2-05
A1.2-06
A1.3-01
A1.3-04
A2.1-01
A2.1-02
A2.1-03
A2.1-04
A2?
A3.1-01b
A3.1-02b
A3.1-03b
A3.1-04a
A3.1-04b
A3.1-05
A3.1-07
A3.1-09
A3.1-10
A3.2-01
A3.2-02
A3.2-04
A3.2-05
A3.2-06
A3.3-05
A3.4-01a
A3.4-05
A3.4-06
A3.4-08
A3.4-11
A3.5-03
A4.1-01
A4.1-02
A4.2-01
A4.2-?
A4.2-?
A4.3-01a
B1.1-01a
B1.1-01b
B1.1-01b?
B1.1-01b?

5mm
B1.1-02a
B1.1-02b
B1.1-02c
B1.1-02d
B1.1-03a
B1.1-03b
B1.1-03c
B1.1-03d
B1.1-04a
B1.1-04b
B1.1-05a
B1.1-05b
B1.1-06a
B1.1-06b
B1.1-06b?
B1.1-06b?
B1.1-07
B1.1-08c
B1.1-08d
B1.1-09b
B1.1-11?
B1.1-11a
B1.1-11b
B1.1-11d
B1.1-12a
B1.1-12b
B1.1-12d
B1.1-12?

5mm
B1.1-12c
B1.2-01a
B1.2-01b
B1.2-01c
B1.2-02a
B1.2-02b
B1.2-03a
B1.2-03b
B1.2-04a
B1.2-04b
B1.2-05
B1.2-06
B1.2-07
B1.3-01
B1.3-02
B1.3-03
B1.3-04
B1.3-05
B1.3-06
B1.3-07
B1.3-08
B1.3-09a
B1.3-09b
B1.3-09c
B1.3-09d
B1.3-09e
B1.4-01a
B1.4-02a
B1.4-03a

5mm
B1.4-04a
B1.4-06a
B1.4-06b
B1.4-07
B1.5-?
B1.5-?
B1.5-01?
B1.5-02a
B1.5-02b
B1.5-03a
B1.5-03b
B1.5-03c
B1.5-04
B1.5-05
B1.6-01a
B1.6-01b
B1.6-01c
B1.6-01d
B1.6-01e
B1.6-02?
B1.6-02b
B1.7-02?
B1.7-03
B1.7-04
B1.8-01
B1.8-02
B1.8-05

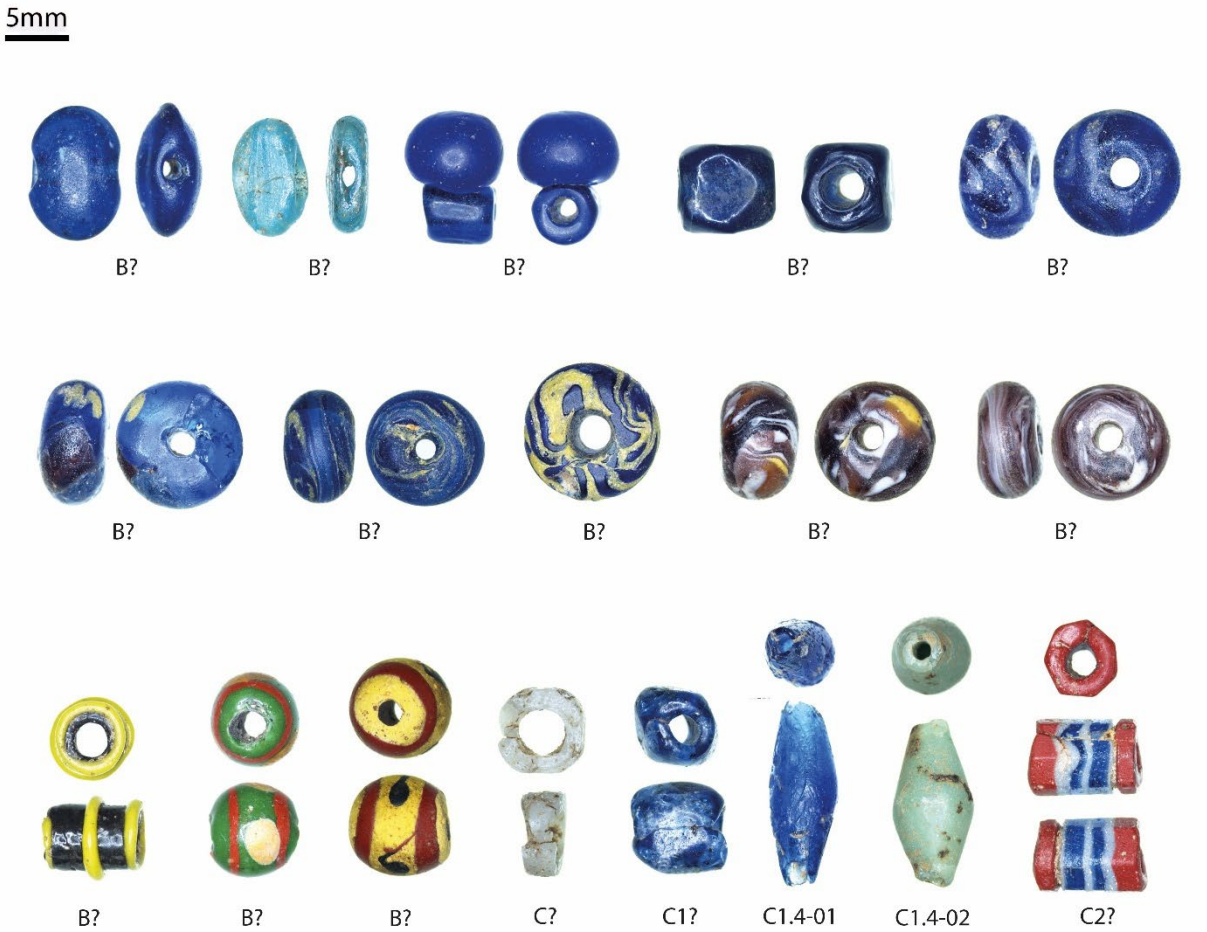
5mm
B1.12-01
B1.13-01?
B1.13-01
B1.14-?
B1.14-02
B2?
B2.1?
B2.1-01a
B2.1-02b
B2.2-01a
B2.2-01b
B2.2-01c
B2.2-02a
B2.2-02b
B2.2-02c
B2.3-02d
B2.6-01a
B2.7-?
B3?
B3.1-01a
B3.1-02
B3.1-03
B3.2-01a
B3.2-01b
B3.2-01c
B3.2-02a
B3.3-01a
B3.3-01b
B3.3-02?
B3.3-02a
B3.3-02a?
B3.3-03a

5mm
B4?
B4?
B4.1-01c?
B4.2-?
B4.2-01a
B4.2-02a
B4.2-02b
B4.2-03a
B4.3-02
B4.3-?
B4.4-01
B4.4-03?
B5?
B5.1-01
B5.2-01a
B5.2-01b
B5.2-01d
B5.5-02?
B5.2-02a
B5.2-02d
B5.2-02d?
B5.3-?
B5.4-02
B5.5-03
B5.7-?
B5.7-?
B5.7-01?
B5.7-01c?
B6.1-01c
B6.1-01d

5mm
B6.1-02a?
B6.1-02b
B6.1-02b?
B6.1-04?
B6.1-?
B6.1-?
B6.1-?
B6.1-?
B6.2-01b
B6.3?
B6.3?
B6.3-02?
B6.3-03?
B6.3-04
B6.3-05b?
B7?
B7?
B7?
B7.2-01?
B7.2-01?

5mm
B7.2-01b
B7.2-01b?
B7.2-01c
B7.2-02?
B8.2-01
B9.1-01a
B10.1-01b
B10.1-02?
B10.1-02?
B10.1-02a
B10.1-02b
B10.1-02b?
B10.4-?
B10.4-01b
B11.1-01
B11.1-02a
B11.1-06

5mm
B11.2-?
B11.3-?
B11.3-02a?
B11.3-02b
B11.9-?
B11.10-01
B12.1-?
B12.1-03
B12?
B12.1-07
B12.2-01


5mm
B?
B?
B?
B?
B?
B?
B?
B?
B?
B?
B?
B?
B?
C?
C1?
C1.4-01
C1.4-02
C2?

5mm
C2.1-01b
C2.1-03a
C2.2-01
C2.2-02?
C2.2-02a
C2.2-03
C3.1-01
C3.3-01
D?
D1.1-02
D1.1-03
D1.1-03?
D1.1-05
D1.2-?
D1.2-02
D1.2-03?
D1.2-04
D1.5-01
D1.5-02
D1.6-01
D1.7-01
D1.7-01?
E?
E1.1-01
E1.1-01?
E1.1-02
E1.2-?
E1.2-?

5mm
E1.2-02
E1.2-03
E2.1-01
E2.1-02
E2.1-03
E2.1-03?
E2.2-01
E3?
E3?
E3.1-01
E3.1-?
E3.2-?
E4.2
F1.1-01
F1.1-02
F1.2

5mm
C2.1-01b
C2.1-03a
C2.2-01
C2.2-02?
C2.2-02a
C2.2-03
C3.1-01
C3.3-01
D?
D1.1-02
D1.1-03
D1.1-03?
D1.1-05
D1.2-?
D1.2-02
D1.2-03?
D1.2-04
D1.5-01
D1.5-02
D1.6-01
D1.7-01
D1.7-01?
E?
E1.1-01
E1.1-01?
E1.1-02
E1.2-?
E1.2-?

5mm
G?
G1.2-01c
G1.2-05
G1.3-02
G2.2

Appendix 3 The Kempen

Appendices with chapter three

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Appendix 3.8 Bead-types found in the Kempen 467

In the tables hereunder the beads excavated from each of the seven sites discussed in chapter three are documented per grave. For each bead, the following characteristics were recorded:

- The number of the grave the bead was found in
- The bead's subnumber
- The material the bead is made of
- When made of glass, whether the bead is monochrome or polychrome
- When made of glass, whether the bead is opaque or translucent
- de condition of the bead: whether it is complete, weathered, burned or broken
- The bead's type according to Pion/Vrielynck/Matthis 2018
- The bead's date according to Pion/Vrielynck/Matthis 2018
- The technique the bead was made with
- The diameter of the bead in millimetres (if it was possible to measure the bead)
- The length of the bead's perforation in millimetres (if it was possible to measure the bead)
- The colour(s) of the bead
- The bead's decoration (if present)
- The shape of the bead, indicated with a number following fig. 6.49
- The region the bead was produced in

Appendix 3.1 Bead determination Geldrop-Zesgehuchten

Grave 6B

grave nr	subnr	Material	monochrome/ polychrome	translucent/ opaque	Condition	Vrielynck/Mathis/Pion Type	Phase	Technique	Size diameter (mm)	Size length (mm)	colour(s)	decoration	Shape	production region
6B	1	Glass	Polychrome	Both	complete	B11.2-04?	P?	wound	n.a.	n.a.	green-blue translucent, white opaque	combed spiral	20	Europe
6B	2	Glass	Monochrome	Opaque	complete	B1.3-01	P3?	wound	n.a.	n.a.	yellow opaque	none	20	Europe
6B	3	Glass	Monochrome	Opaque	complete	B1.4-02a	P3	wound	n.a.	n.a.	red opaque	none	11	Europe
6B	4	Glass	Monochrome	Opaque	complete	B1.3-02	P3?	wound	n.a.	n.a.	red opaque	none	20	Europe
6B	5	Glass	Monochrome	Opaque	complete	B1.3-01	P3?	wound	n.a.	n.a.	yellow opaque	none	20	Europe
6B	6	Amber	Monochrome	Opaque	complete	F1.8-03	P1-P5	cut	n.a.	n.a.	amber	none	40	Baltic
6B	7	Glass	Monochrome	Opaque	weathered	B1.3-03	P3?	wound	n.a.	n.a.	white opaque	none	20	Europe
6B	8	Glass	Monochrome	Opaque	complete	B1.3-09d	P5	wound	n.a.	n.a.	green opaque	none	19	Europe
6B	9	Glass	Monochrome	Translucent	weathered	B1.13-01?	P?	wound	n.a.	n.a.	blue-green translucent	none	14	Europe
6B	10	Glass	Monochrome	Opaque	complete	B1.3-01	P3?	wound	n.a.	n.a.	yellow opaque	none	20	Europe
6B	11	Glass	Monochrome	Opaque	complete	B1.3-01	P3?	wound	n.a.	n.a.	yellow opaque	none	20	Europe
6B	12	Glass	Monochrome	Opaque	complete	B1.3-01	P3?	wound	n.a.	n.a.	yellow opaque	none	20	Europe
6B	13	Glass	Polychrome	Both	complete	B3.3-03a	P4	wound	n.a.	n.a.	white opaque, blue-green translucent	interlacing	11	Europe
6B	14	Glass	Monochrome	Opaque	complete	B1.4-03a	P3?	wound	n.a.	n.a.	white opaque	none	11	Europe
6B	15	Glass	Polychrome	Opaque	complete	B8.3-?	P?	wound	n.a.	n.a.	red opaque, yellow opaque, white opaque	interlacing, regular dots, eye	18	Europe
6B	16	Glass	Monochrome	Opaque	complete	B1.4-02a	P3	wound	n.a.	n.a.	red opaque	none	11	Europe
6B	17	Glass	Monochrome	Opaque	complete	B1.3-02	P3?	wound	n.a.	n.a.	red opaque	none	19	Europe
6B	18	Glass	Monochrome	Opaque	complete	B1.5-06	P5	wound	n.a.	n.a.	red opaque	none	28	Europe
6B	19	Glass	Polychrome	Both	complete	B11.2-04?	P?	wound	n.a.	n.a.	green-blue translucent, yellow opaque	combed spiral	20	Europe
6B	20	Glass	Monochrome	Opaque	complete	B1.4-03a	P3	wound	n.a.	n.a.	white opaque	none	11	Europe
6B	21	Glass	Polychrome	Both	complete	B3.3-03a	P4	wound	n.a.	n.a.	white opaque, blue-green translucent	interlacing	11	Europe
6B	22	Glass	Monochrome	Opaque	complete	B1.3-01?	P?	wound	n.a.	n.a.	yellow opaque	none	50	Europe
6B	23	Glass	Monochrome	Opaque	complete	B1.3-01	P3?	wound	n.a.	n.a.	yellow opaque	none	20	Europe
6B	24	Glass	Monochrome	Opaque	complete	B1.3-01	P3?	wound	n.a.	n.a.	yellow opaque	none	20	Europe
6B	25	Glass	Monochrome	Opaque	complete	B1.3-01	P3?	wound	n.a.	n.a.	yellow opaque	none	20	Europe
6B	26	Glass	Monochrome	Opaque	complete	B1.3-06	P5	wound	n.a.	n.a.	blue-green opaque	none	20	Europe
6B	27	Glass	Monochrome	Opaque	complete	B1.4-03b	P4	wound	n.a.	n.a.	white opaque	none	55	Europe

Appendix 3.2 Bead determination Dommelen-Kerkakkers

Grave 2

grave nr	subnr	number on string	Material	Glass subcategory	Translucent /opaque	Condition	Vrielynck/ Mathis/ Pion Type	Phase	Technique	Size diameter (mm)	Size length (mm)	colour(s)	decoration	Shape	production region
2	8	1	glass	monochrome	opaque	complete	B1.3-09b	P5	wound	7,7	4,8	red opaque	none	20	Europe
2	9	2	glass	monochrome	opaque	weathered	B3.3-01a	P2	wound	9,4	7,0	white opaque, yellow translucent	interlacing	18	Europe
2	10	3	glass	monochrome	opaque	complete	B1.3-09d	P5	wound	7,7	4,7	green opaque	none	19	Europe
2	11	4	glass	monochrome	opaque	complete	B1.14-01	P5	wound	7	10,3	red opaque	none	50	Europe
2	12	5	glass	monochrome	translucent	complete	B1.1-11c	?	wound	8,3	5,2	brown translucent	none	18	Europe
2	13	6	glass	polychrome	opaque	complete	B6.1-01?	P?	wound	9,2	6,0	black opaque, yellow opaque, red opaque, green opaque, white opaque	irregular dots	20	Europe
2	18	7	glass	monochrome	opaque	complete	B1.4-07	P5	wound	8,5	4,0	green opaque	none	4	Europe
2	19	8	glass	polychrome	opaque	complete	B6.1-01?	P?	wound	8,7	6,8	black opaque, yellow opaque, red opaque, green opaque, white opaque	irregular dots	20	Europe
2	21	9	glass	monochrome	translucent	weathered	B1.4-06a	P3	wound	7,7	6,6	blue translucent	none	11	Europe
2	14	10	glass	monochrome	opaque	weathered	B1.1-02c	P1-P3	wound	9,3	4,6	yellow opaque	none	18	Europe
2	20	11	glass	monochrome	opaque	complete	B1.3-08	P4	wound	8,5	5,8	orange opaque	none	19	Europe
2	15	12	glass	monochrome	opaque	complete	B1.4-02a	P3	wound	7,7	5,0	red opaque	none		Europe
2	22	13	glass	polychrome	opaque	complete	B6.1-01?	P?	wound	8,4	6,9	black opaque, yellow opaque, red opaque, green opaque, white opaque	irregular dots	20	Europe
2	16	14	glass	monochrome	translucent	complete	B1.1-11a	P?	wound	11,5	5,9	green-blue translucent	none	18	Europe
2	27	15	glass	polychrome	opaque	complete	B9.1-01a	P3	wound	9,4	10,1	red opaque, white opaque	combed spiral	20	Europe
2	26	16	amber	x	x	broken	F1.8-02	P1-P5	cut	9,0	16,8	amber	none	40	Baltic
2	23	17	glass	polychrome	opaque	complete	B6.1-01?	P?	wound	9,7	5,5	black opaque, yellow opaque, red opaque, white opaque	irregular dots	20	Europe
2	38	18	glass	polychrome	opaque	weathered	B2.2-01a	P1	wound	12,8	4,5	black opaque, white opaque	wave	18	Europe
2	17	19	glass	monochrome	translucent	broken	A3.1-01b?	P2?	drawn	5,8	6,8	blue translucent	none	31	Near East
2	29	20	glass	polychrome	both	weathered	E1.2-02	P2	mosaic	14,2	12,2	red opaque, red translucent, green translucent, blue translucent, white opaque, yellow opaque	mosaic flowers, borders	19	Egypt
2	30	21	glass	monochrome	translucent	complete	D?	P?	perforated	15	5,3	light blue translucent	none	18	Europe
2	31	22	glass	monochrome	translucent	complete	B1.3-05?	P3?	wound	8,6	6,6	blue translucent	none	19	Europe
2	28	23	glass	monochrome	opaque	complete	B1.3-08	P4	wound	10,6	9,8	orange opaque	none	19	Europe
2	33	24	glass	monochrome	translucent	complete	B1.1-06b	P0-P3	wound	8,1	6,3	blue translucent	none	18	Europe
2	32	25	glass	monochrome	opaque	complete	B1.3-08	P4	wound	9,8	7,6	orange opaque	none	19	Europe
2	34	26	glass	monochrome	translucent	complete	B1.3-05?	P3?	wound	8,4	5,9	blue translucent	none	19	Europe

2	35	27	glass	monochrome	opaque	complete	B1.3-08	P4	wound	9,1	6,4	orange opaque	none	19	Europe
2	56	28	glass	monochrome	translucent	complete	B1.1-06b	P0-P3	wound	8,8	5,3	blue translucent	none	18	Europe
2	53	29	glass	monochrome	opaque	complete	B1.1-08c	?	wound	8,0	5,2	green opaque	none	18	Europe
2	55	30	glass	monochrome	opaque	complete	B1.3-08	P4	wound	9,8	8,4	orange opaque	none	19	Europe
2	36	31	glass	polychrome	opaque	complete	B10.4-01a?	P?	wound	17,3	15,3	red opaque, black opaque, yellow opaque	polychrome twist	19	Europe
2	57	32	amber	x	x	complete	F1.8-04	P1-P5	cut	18,6	21,4	amber	none	22	Baltic
2	59	33	glass	monochrome	translucent	complete	D?	P?	perforated			light blue translucent	none	18	Europe
2	58	34	glass	monochrome	opaque	weathered	B1.3-08	P4	wound	11	8,4	orange opaque	none	19	Europe
2	61	35	glass	monochrome	translucent	complete	B1.1-11a	P?	wound	12,3	7,1	green-blue translucent	none	18	Europe
2	60	36	glass	monochrome	opaque	complete	B1.4-02a	P3	wound	8,1	4,0	red opaque	none	3	Europe
2	54	37	glass	polychrome	opaque	complete	B3.2-01a	P3	wound	9,5	5,1	red opaque, white opaque	interlacing	18	Europe
2	52	38	glass	monochrome	opaque	complete	B1.3-01	P3	wound	6,1	6,6	yellow opaque	none	20	Europe
2	51	39	glass	monochrome	opaque	complete	B1.?	P?	wound	7,9	6,9	brown translucent	none	19	Europe
2	48	40	glass	monochrome	opaque	complete	B1.1-11c	P?	wound	8,8	4,6	brown translucent	none	18	Europe
2	50	41	glass	monochrome	translucent	complete	B1.3-05?	P3?	wound	5,5	5,8	blue translucent	none	20	Europe
2	49	42	glass	monochrome	opaque	complete	B1.1-02b	P1-P5	wound	7,4	3,6	yellow opaque	none	18	Europe
2	47	43	glass	polychrome	opaque	complete	B6.1-01?	P?	wound	9,0	7,0	black opaque, yellow opaque, red opaque, green opaque, white opaque	irregular dots	20	Europe
2	46	44	glass	polychrome	opaque	complete	B6.1-01?	P?	wound	8,9	7,7	black opaque, yellow opaque, red opaque, green opaque, white opaque	irregular dots	20	Europe
2	45	45	glass	monochrome	translucent	complete	D1.1-03	P1-P3	perforated	5,4	6,0	blue translucent	none	7	Near East
2	43	46	glass	polychrome	opaque	complete	B3.2-01a	P3	wound	8,0	5,6	red opaque, white opaque	interlacing	18	Europe
2	44	47	glass	monochrome	opaque	complete	B1.1-08c	P?	wound	7,9	4,4	green opaque	none	20	Europe
2	40	48	glass	monochrome	opaque	complete	B1.4-?	P?	wound	5,2	8,5	green opaque	none	27	Europe
2	41	49	glass	monochrome	opaque	complete	B1.14-01	P5	wound	6,6	11,6	red opaque	none	50	Europe
2	39	50	glass	monochrome	opaque	complete	B1.4-02a?	P3?	wound	4,9	8,6	red opaque	none	27	Europe

Grave 3A

grave nr	sub nr	number on string	Material	Glass subcategory	Translucent / opaque	Condition	Vrielynck/ Mathis/ Pion Type	Phase	Technique	Size diameter (mm)	Size length (mm)	colour(s)	decoration	Shape	production region
3A-1	?	1	glass	monochrome	translucent	complete	B1.3-05	P3	wound	8,2	6,3	blue translucent	none	20	Europe
3A-1	?	2	glass	monochrome	opaque	complete	B1.1-07	P1	wound	12,3	3,8	dark blue translucent	none	4?	Europe
3A-1	?	3	glass	monochrome	translucent	weathered	D?	?	perforated	8,4	3,6	yellow translucent	none	18	Europe
3A-1	?	4	glass	monochrome	translucent	complete	D?	P?	perforated	10,3	4,4	blue translucent	none	18	Europe
3A-1	?	5	glass	monochrome	translucent	complete	D?	?	perforated	7,5	3	dark brown translucent	none	18	Europe
3A-1	?	6	glass	monochrome	opaque	complete	B1.3-09d?	P5?	wound	7,4	5,6	green opaque	none	20	Europe
3A-1	?	7	glass	monochrome	opaque	complete	B1.1-03b	P1-P5	wound	7,6	4,7	red opaque	none	18	Europe
3A-1	?	8	glass	polychrome	opaque	weathered	B6.1-01?	P?	wound	9,8	6,2	blue-green translucent, red opaque, orange opaque, green opaque	irregular dots	20	Europe
3A-1	?	9	glass	monochrome	opaque	complete	B1.3-01	P3	wound	7,1	6	yellow opaque	none	20	Europe
3A-1	?	10	glass	monochrome	opaque	complete	B1.3-02	P3	wound	7	5	red opaque	none	38	Europe
3A-1	?	11	glass	monochrome	translucent	complete	D?	P3?	perforated	6	2,4	blue translucent	none	18	Europe
3A-1	?	12	glass	monochrome	opaque	complete	B1.3-02	P3	wound	7	5,6	red opaque	none	20	Europe
3A-1	?	13	glass	polychrome	opaque	complete	B6.1-01?	P?	wound	9,9	5,9	blue-green translucent, red opaque, orange opaque, green opaque	irregular dots	19	Europe
3A-1	?	14	glass	monochrome	translucent	complete	D?	P?	perforated	10,1	4,2	blue translucent	none	18	Europe
3A-1	?	15	glass	monochrome	opaque	complete	B1.2-05	P4	wound	7,1	5,3	blue-green translucent	none	19	Europe
3A-1	?	16	glass	monochrome	opaque	complete	B1.3-01	P3	wound	7,9	5,4	yellow opaque	none	19	Europe
3A-1	?	17	glass	polychrome	both	complete	B6.1-01?	P?	wound	10,3	7,1	green-blue translucent, red opaque, green opaque, yellow opaque, white opaque	irregular dots	20	Europe
3A-1	?	18	glass	monochrome	translucent	weathered	B1.2-05	P4	wound	7,3	5,4	blue-green translucent	none	20	Europe
3A-1	?	19	glass	monochrome	translucent	complete	B1.3-?	P?	wound	7,4	6,6	brown translucent	none	20	Europe
3A-1	?	20	glass	monochrome	opaque	complete	B1.3-09b?	P5?	wound	7,2	5,8	green opaque	none	20	Europe
3A-1	?	21	glass	monochrome	opaque	complete	B1.3-02	P3	wound	7,2	4,9	red opaque	none	20	Europe
3A-1	?	22	glass	monochrome	opaque	complete	B1.3-09d?	P5?	wound	6,9	5,3	green opaque	none	20	Europe
3A-1	?	23	glass	monochrome	opaque	complete	B1.3-02	P3	wound	7,7	5,5	red opaque	none	20	Europe
3A-1	?	24	glass	monochrome	opaque	complete	B1.3-01	P3	wound	8	5,6	yellow opaque	none	19	Europe

Grave 3B

grave nr	subnr	number on string	Material	Glass subcategory	Translucent / opaque	Condition	Vrielynck/ Mathis/ Pion Type	Phase	Technique	Size diameter (mm)	Size length (mm)	colour(s)	decoration	Shape	production region
3B-2	64	1	glass	monochrome	opaque	complete	B1.3-01	P3	wound	7,0	5,4	yellow opaque	none	20	Europe
3B-2	67	2	glass	polychrome	opaque	complete	B6.1-01?	P?	wound	8,7	5,8	dark blue translucent, red opaque, green opaque, yellow opaque, white opaque	irregular dots	20	Europe
3B-2	71	3	glass	monochrome	opaque	weathered	B1.3-06	P5	wound	8,9	5,6	blue-green translucent	none	19	Europe
3B-2	102	4	glass	monochrome	opaque	weathered	B1.3-06	P5	wound	7,9	5,1	blue-green translucent	none	20	Europe
3B-2	101	5	glass	polychrome	opaque	complete	B6.1-01?	P?	wound	9,3	5,1	black opaque, yellow opaque, red opaque, green opaque	irregular dots	18	Europe
3B-2	104	6	glass	monochrome	translucent	complete	D?	P?	perforated	7,2	2,8	colourless translucent	none	18	Europe
3B-2	68	7	glass	monochrome	opaque	weathered	B1.3-01	P3	wound	7,7	4,9	yellow opaque	none	20	Europe
3B-2	79	8	glass	monochrome	opaque	complete	B1.3-?	?	wound	7,8	5,7	green opaque	none	20	Europe
3B-2	70	9	glass	polychrome	opaque	complete	B6.1-01?	?	wound	9,2	7,2	black opaque, yellow opaque, red opaque, green opaque	irregular dots	20	Europe
3B-2	66	10	glass	monochrome	opaque	complete	B1.3-01	P3	wound	6,8	5,1	yellow opaque	none	20	Europe
3B-2	11	11	glass	monochrome	translucent	complete	D?	P?	perforated	9,6	4,5	colourless translucent	none	18	Europe
3B-2	12	12	glass	monochrome	opaque	complete	B1.3-06	P5	wound	7,6	5,9	blue-green translucent	none	20	Europe
3B-2	74	13	glass	monochrome	opaque	complete	B1.3-01	P3	wound	6,9	4,9	yellow opaque	none	20	Europe
3B-2	73	14	glass	polychrome	opaque	complete	B6.1-01?	P?	wound	9,5	5,8	black opaque, yellow opaque, red opaque, green opaque	irregular dots	20	Europe
3B-2	75	15	glass	monochrome	opaque	complete	B1.3-02	P3	wound	7,1	5,7	red opaque	none	20	Europe
3B-2	72	16	glass	monochrome	opaque	complete	B1.3-02	P3	wound	6,9	4,8	red opaque	none	20	Europe
3B-2	?	17	glass	?	?	?	?	?	?	?	?	?	?	?	?
3B-2	63	18	glass	polychrome	opaque	complete	B6.1-01?	P?	wound	9,5	5,9	dark blue translucent, red opaque, green opaque, orange opaque	irregular dots	20	Europe
3B-2	54	19	glass	polychrome	both	complete	B?	P?	wound	12.1	5.2	colourless translucent	combed spiral	18	Europe
3B-2	53	20	glass	monochrome	opaque	complete	B1.3-01	P3	wound	8,3	4,6	yellow opaque	none	20	Europe
3B-2	52	21	glass	polychrome	opaque	complete	B6.1-01?	P?	wound	9,3	5,4	dark blue translucent, red opaque, green opaque, orange opaque, yellow opaque	irregular dots	20	Europe
3B-2	55	22	glass	monochrome	translucent	broken	D?	P?	perforated	12,3	4,4	light blue translucent	none	18	Europe
3B-2	60	23	glass	monochrome	opaque	complete	B1.3-02	P3	wound	7,1	6,7	red opaque	none	19	Europe
3B-2	56	24	glass	monochrome	translucent	complete	D?	P?	perforated	10,0	3,9	colourless translucent	none	18	Europe
3B-2	58	25	glass	monochrome	translucent	complete	D?	P?	perforated	12,3	4,4	light blue translucent	none	18	Europe
3B-2	48	26	glass	monochrome	opaque	complete	B1.3-09a	P4	wound	8,5	6,4	orange opaque	none	19	Europe
3B-2	50	27	glass	monochrome	opaque	complete	B1.3-06	P5	wound	7,3	5,5	blue-green translucent	none	20	Europe
3B-2	40	28	glass	polychrome	opaque	weathered	B3.2-02b	P3	wound	7,7	5,0	red opaque, yellow opaque	interlacing	18	Europe

3B-2	51	29	glass	monochrome	opaque	weathered	B1.3-?	P?	wound	7,0	5,4	green opaque	none	20	Europe
3B-2	43	30	glass	polychrome	opaque	weathered	B8.2-05	P?	wound	16,4	11,2	dark blue-green opaque, white opaque, red opaque	stratified eyes	18	Europe
3B-2	42	31	glass	monochrome	opaque	weathered	B1.3-08	P4	wound	13,9	8,7	orange opaque	none	19	Europe
3B-2	59	32	glass	monochrome	opaque	complete	B1.3-06	P5	wound	7,0	5,6	blue-green translucent	none	20	Europe
3B-2	47	33	glass	monochrome	translucent	complete	D?	P?	perforated	13,3	4,4	colourless translucent	none	18	Europe
3B-2	57	34	glass	monochrome	translucent	complete	D?	P?	perforated	12,5	4,3	colourless translucent	none	18	Europe
3B-2	44	35	glass	monochrome	opaque	weathered	B1.3-01	P3	wound	7,0	4,9	yellow opaque	none	20	Europe
3B-2	46	36	glass	monochrome	opaque	complete	B1.3-02	P3	wound	7,1	5,1	red opaque	none	20	Europe
3B-2	45	37	glass	monochrome	opaque	complete	B1.3-02	P3	wound	7,2	4,9	red opaque	none	20	Europe
3B-2	81	38	glass	monochrome	translucent	broken	?	P?	?	12,7	14,8	blue translucent	none	22	Europe
3B-2	91	39	glass	monochrome	opaque	complete	B1.3-01?	P3	wound	6,9	4,9	yellow opaque	none	20	Europe
3B-2	62	40	glass	monochrome	translucent	complete	D?	P?	perforated	8,4	3,4	colourless translucent	none	18	Europe
3B-2	88	41	glass	monochrome	opaque	complete	B1.3-?	P?	wound	7,1	6,1	green opaque	none	20	Europe
3B-2	80	42	glass	polychrome	opaque	complete	B6.1-01?	P?	wound	8,1	5,5	black opaque, yellow opaque, red opaque, green opaque	irregular dots	20	Europe
3B-2	82	43	glass	monochrome	opaque	complete	B1.3-01	P3	wound	10,9	6,8	yellow opaque	none	20	Europe
3B-2	89	44	glass	monochrome	opaque	complete	B1.3-02	P3	wound	6,8	5,2	red opaque	none	20	Europe
3B-2	87	45	glass	monochrome	opaque	complete	B1.3-01	P3	wound	7,5	4,5	yellow opaque	none	20	Europe
3B-2	85	46	glass	polychrome	opaque	weathered	B6.2-01b	P5	wound	7,6	16,1	red opaque, yellow opaque	regular dots	7	Europe
3B-2	83	47	glass	monochrome	opaque	complete	B1.3-06	P5	wound	7,2	5,3	blue-green translucent	none	20	Europe
3B-2	92	48	glass	monochrome	opaque	weathered	B1.1-02a	P2-P5	wound	4,3	2,2	yellow opaque	none	30	Europe
3B-2	93	49	glass	monochrome	opaque	weathered	B1.1-02a	P2-P5	wound	4,3	2,6	yellow opaque	none	30	Europe
3B-2	90	50	glass	monochrome	opaque	complete	B1.3-06	P5	wound	7,2	5,6	blue-green translucent	none	20	Europe
3B-2	98	51	glass	monochrome	opaque	complete	B1.3-03	P3	wound	8,9	5,3	white opaque	none	19	Europe
3B-2	84	52	glass	polychrome	opaque	complete	B6.1-01?	P?	wound	8,6	6,0	black opaque, yellow opaque, red opaque, green opaque	irregular dots	20	Europe
3B-2	97	53	glass	monochrome	translucent	complete	D?	P?	perforated	8,4	3,2	colourless translucent	none	18	Europe
3B-2	86	54	glass	monochrome	translucent	complete	D?	P?	perforated	8,8	3,5	colourless translucent	none	18	Europe
3B-2	96	55	?	?	?	?	?	?	?	?	?	?	?	?	?
3B-2	108?	56	glass	monochrome	translucent	complete	D?	P?	perforated	8,3	3,0	blue translucent	none	18	Europe
3B-2	109?	57	glass	polychrome	opaque	complete	B6.1-01?	P?	wound	8,9	7,4	black opaque, yellow opaque, red opaque, green opaque	irregular dots	20	Europe
3B-2	110	58	glass	monochrome	translucent	weathered	D?	P?	perforated	7,6	2,8	yellow translucent	none	18	Europe
3B-2	94	59	glass	monochrome	opaque	complete	B1.3-?	P?	wound	8,0	5,1	dark green opaque	none	20	Europe
3B-2	95	60	glass	monochrome	opaque	complete	B1.3-03	P3	wound	9,3	4,8	white opaque	none	20	Europe
3B-2	76	?	glass	monochrome	translucent	broken	B1.1-08?	P?	wound	?	4,0	blue-green translucent	none	18	Europe
3B-2	96	?	glass	monochrome	translucent	broken	B1.3-06	P5	wound	?	?	blue-green translucent	none	18	Europe

Grave 3A or 3B

grave nr	subnr	number on string	Material	Glass subcategory	Translucent /opaque	Condition	Vrielynck/ Mathis/ Pion Type	Phase	Technique	Size diameter (mm)	Size length (mm)	colour(s)	decoration	Shape	production region
3A-B	x	1	glass	monochrome	translucent	complete	D?	P0-P3?	perforated	11,7	4,3	blue translucent	none	18	Europe
3A-B	x	2	glass	monochrome	opaque	complete	B1.1-03b	P1-P5	wound	6,9	4,3	red opaque	none	18	Europe
3A-B	x	3	glass	monochrome	opaque	complete	B1.3-01	P3	wound	7,8	6,1	yellow opaque	none	20	Europe
3A-B	x	4	glass	monochrome	opaque	complete	B1.3-01	P3	wound	7,1	5,7	yellow opaque	none	20	Europe

Grave 4

grave nr	subnr	number on string	Material	Glass subcategory	translucent/ opaque	Condition	Vrielynck/ Mathis/ Pion Type	Phase	Technique	Size diameter (mm)	Size length (mm)	colour(s)	decoration	Shape	production region
4-2	3	1	glass	monochrome	opaque	complete	B1.3-09b?	P5?	wound	7,6	4,9	red opaque	x	20	Europe
4-2	4	2	glass	monochrome	opaque	complete	B1.3-08	P4	wound	9,1	5,6	orange opaque	x	20	Europe
4-2	9	3	glass	monochrome	translucent	complete	B1.3-05?	P3?	wound	7,9	4,7	blue translucent	x	20	Europe
4-2	10	4	glass	monochrome	opaque	complete	B1.3-09a	P4	wound	9,3	8,1	orange opaque	x	20	Europe
4-2	11	5	glass	monochrome	translucent	complete	B1.3-09e	P5	wound	5,9	5,4	light blue translucent	x	11	Europe
4-2	15?	6	glass	polychrome	both	broken	E1.2-03	P2	mosaic	14,3	11,5	red opaque, colourless translucent, yellow opaque, blue translucent, white opaque, green translucent.	mosaic eyes, mosaic flowers	19	Egypt
4-2	16	7	glass	monochrome	translucent	complete	B1.3-09e	P5	wound	6	5,8	light blue translucent	x	19	Europe
4-2	17	8	glass	monochrome	opaque	complete	B1.1-03b	P1-P5	wound	6,5	4,9	red opaque	x	18	Europe
4-2	18	9	glass	monochrome	opaque	complete	B1.3-09d	P5	wound	6	5,8	light green opaque	x	19	Europe
4-2	19?	10	glass	monochrome	opaque	complete	B1.3-09d	P5	wound	6,3	5,3	light green opaque	x	20	Europe
4-2	20	11	glass	polychrome	opaque	complete	B6.1-01?	?	wound	8,7	5,1	black opaque, yellow opaque, red opaque, green opaque	irregular dots	18	Europe
4-2	21	12	glass	monochrome	translucent	complete	B1.3-09e	P5	wound	6,2	5,4	light blue translucent	x	19	Europe
4-2	22	13	glass	monochrome	opaque	complete	B1.3-09b	P5	wound	6	5,5	light green opaque	x	20	Europe
4-2	23	14	glass	monochrome	opaque	complete	B1.1-02d	P1-P4	wound	6,1	3,2	yellow opaque	x	18	Europe

Appendix 3.3 Bead determination Veldhoven-Site K

Grave 13

grave nr	subnr	Material	Glass subcategory	translucent/opaque	Condition	Vrielynck/Mathis/Pion Type	Phase	Technique	Size diameter (mm)	Size length (mm)	colour(s)	decoration	Shape	production region
13	1	glass	monochrome	translucent	complete	B1.5-07	P5	wound	7,2	4,4	blue-green translucent	none	28	Europe
13	2	glass	monochrome	translucent	complete	B1.5-07	P5	wound	6,7	7,5	blue-green translucent	none	43	Europe
13	3	glass	monochrome	translucent	complete	B1.5-07	P5	wound	6,9	4,7	blue-green translucent	none	28	Europe
13	4	glass	monochrome	translucent	complete	B1.5-07	P5	wound	7,1	5,4	blue-green translucent	none	28	Europe
13	5	glass	monochrome	translucent	complete	B1.5-07	P5	wound	7,2	5,3	blue-green translucent	none	28	Europe
13	6	glass	polychrome	opaque	complete	B3.1-01a	P3	wound	6,9	3,8	yellow opaque, red opaque	interlacing	19	Europe
13	7	glass	polychrome	opaque	complete	B2.5-02	P4	wound	6,5	5,2	white opaque, light blue translucent	wave	35	Europe
13	8	glass	monochrome	opaque	complete	B1.2-01b	P4	wound	5,4	5,7	yellow opaque	none	25	Europe
13	9	glass	monochrome	translucent	complete	B1.5-07	P5	wound	7,1	4,4	blue-green translucent	none	28	Europe
13	10	glass	monochrome	translucent	complete	B1.5-07	P5	wound	6,5	8,2	blue-green translucent	none	43	Europe
13	11	glass	monochrome	translucent	complete	B1.5-07	P5	wound	7,1	4,6	blue-green translucent	none	28	Europe
13	12	glass	monochrome	translucent	complete	B1.5-07	P5	wound	7,2	3,5	blue-green translucent	none	28	Europe
13	13	glass	monochrome	translucent	complete	B1.1-02b	P1-P5	wound	5,6	4,7	blue-green translucent	none	19	Europe
13	14	glass	monochrome	translucent	complete	B1.5-07	P5	wound	7,3	9,6	blue-green translucent	none	43	Europe
13	15	glass	monochrome	translucent	complete	B1.7-04	P5	wound	8,7	12,9	blue-green translucent	none	22	Europe
13	16	glass	monochrome	translucent	complete	B1.5-07	P5	wound	8	4,9	blue-green translucent	none	28	Europe
13	17	glass	monochrome	translucent	complete	B1.5-07	P5	wound	10,1	6,7	blue translucent	none	28	Europe
13	18	glass	monochrome	translucent	complete	B1.5-07	P5	wound	7,2	5,2	blue-green translucent	none	28	Europe
13	19	glass	monochrome	translucent	complete	B1.1-02b	P1-P5	wound	6,6	3,9	yellow opaque	none	18	Europe
13	20	glass	monochrome	translucent	complete	B1.5-07	P5	wound	9,4	7	blue translucent	none	28	Europe
13	21	glass	monochrome	translucent	complete	B1.1-03b	P1-P5	wound	5,7	4,7	red opaque	none	18	Europe
13	22	glass	monochrome	translucent	complete	B1.7-01	P5	wound	7,5	9,3	yellow opaque	none	15	Europe
13	23	glass	monochrome	translucent	complete	B1.5-07?	P5?	wound	8,5	9,3	green opaque	none	43	Europe
13	24	glass	monochrome	translucent	complete	B1.1-02b	P1-P5	wound	x	x	yellow opaque	none	18	Europe
13	25	glass	monochrome	translucent	complete	B1.5-?	?	wound	17,3	13,3	light blue translucent	none	18	Europe
13	26	glass	monochrome	translucent	complete	B1.5-07?	P5?	wound	7,8	8,2	green opaque	none	43	Europe
13	27	glass	monochrome	translucent	complete	B1.5-07	P5	wound	10,1	6,7	blue translucent	none	28	Europe
13	28	glass	monochrome	translucent	complete	B1.5-07	P5	wound	7,5	5,4	blue-green translucent	none	28	Europe
13	29	glass	monochrome	translucent	complete	B1.5-07	P5	wound	7,3	5,1	blue-green translucent	none	28	Europe
13	30	glass	monochrome	translucent	complete	B1.5-07?	P5?	wound	7,7	10,6	green opaque	none	43	Europe
13	31	glass	monochrome	translucent	complete	B1.3-01	P3	wound	9,7	7	yellow opaque	none	20	Europe

13	32	glass	monochrome	translucent	complete	B1.5-07	P5	wound	10	6,7	blue translucent	none	28	Europe
13	33	glass	monochrome	translucent	complete	B1.7-01	P5	wound	7,9	10,3	yellow opaque	none	15	Europe
13	34	glass	monochrome	translucent	complete	B1.5-07	P5	wound	7,4	5,8	blue-green translucent	none	28	Europe
13	35	glass	monochrome	translucent	complete	B1.5-07?	P5?	wound	8,2	12,7	green opaque	none	43	Europe
13	36	glass	monochrome	translucent	complete	B1.5-07	P5	wound	7,7	5,3	blue-green translucent	none	28	Europe
13	37	glass	monochrome	translucent	complete	B1.5-07	P5	wound	7,7	4,8	blue-green translucent	none	28	Europe
13	38	glass	monochrome	translucent	complete	B1.1-02b	P1-P5	wound	6,3	3,6	yellow opaque	none	18	Europe

Grave 25

Grave nr	subnr	Material	Glass subcategory	Translucent /opaque	Condition	Vrielynck/ Mathis/ Pion Type	Phase	Technique	Size diameter (mm)	Size length (mm)	colour(s)	decoration	Shape	production region
25	1	glass	monochrome	opaque	weathered	B1.6-01b	P2	wound	7,8	10.1	red opaque	none	47	Europe
25	2	glass	monochrome	opaque	complete	B1.3-09a	P4	wound	9,8	8,1	orange opaque	none	20	Europe
25	3	glass	monochrome	opaque	complete	B1.3-01	P3	wound	7,5	4,4	yellow opaque	none	20	Europe
25	4	glass	monochrome	opaque	complete	B1.6-01e	P2	wound	9,3	9,5	dark green-blue opaque	none	47	Europe
25	5	glass	monochrome	opaque	broken	B1.2-01b	P4	wound	x	x	yellow opaque	none	25	Europe
25	6	glass	monochrome	translucent	weathered	B1.3-05	P3	wound	16,8	11.9	blue translucent	none	20	Europe
25	7	glass	monochrome	opaque	complete	B1.3-01	P3	wound	6,9	6,8	yellow opaque	none	20	Europe
25	8	amber	n.a	n.a	complete	F1.8-04	P1-P5	cut	18,5	15,3	amber	none	9	Baltic
25	9	glass	monochrome	opaque	complete	B1.5-07	P5	wound	8,0	8,5	blue-green opaque	none	28	Europe
25	10	glass	polychrome	opaque	complete	B6.1-01?	P?	wound	9,7	6	blue-green translucent, red opaque, orange opaque, green opaque	irregular dots	20	Europe
25	11	glass	monochrome	translucent	complete	D?	P?	perforated	9,3	4,0	blue-green translucent	none	18	Europe
25	12	glass	monochrome	translucent	complete	B1.4-06a	P3	wound	7,2	5,7	blue translucent	none	11	Europe
25	13	glass	polychrome	both	complete	B3.3-03a	P4	wound	9,6	7,2	white opaque, blue-green translucent	interlacing	11	Europe
25	14	glass	polychrome	opaque	complete	B3.2-01c	P4	wound	7,1	4,9	red opaque, white opaque	interlacing	18	Europe
25	15	glass	monochrome	opaque	complete	B1.3-09d	P5	wound	8,7	5.2	green opaque	none	19	Europe
25	16	glass	monochrome	opaque	complete	B1.3-09a	P4	wound	8,4	7,1	orange opaque	none	20	Europe
25	17	glass	monochrome	opaque	complete	B1.3-09d	P5	wound	8,1	4,9	green opaque	none	19	Europe
25	18	glass	monochrome	opaque	weathered	B1.3-09a	P4	wound	8,9	5,4	orange opaque	none	20	Europe
25	19	glass	polychrome	both	weathered	B3.3-02a	P3	wound	9,7	6,7	white opaque, blue translucent	interlacing	18	Europe
25	20	glass	polychrome	opaque	complete	B6.1-01?	P?	wound	10,3	6,5	dark blue translucent, red opaque, white opaque, yellow opaque	irregular dots	19	Europe
25	21	glass	monochrome	opaque	complete	B1.3-09a?/D?	P4	manipulated around mandrel	11,0	7,3	orange opaque	none	19	Europe

Appendix 3.4 Bead determination Bergeijk-Fazantlaan

Grave 7

grave nr	findnr	subnr	Material	Monochrome /polychrome	Translucent /opaque	Condition	Vrielynck/ Mathis/ Pion Type	Phase	Technique	Size diameter (mm)	Size length (mm)	colour(s)	decoration	Shape	production region
7	7.1	1	Amber	n.a.	n.a.	Weathered	F1.8-02	P1-P5	Cut	n.a.	n.a.	amber	none	40	Baltic
7	7.e2	2	Glass	Monochrome	Translucent	Complete	B1.2-06	P4	Wound	n.a.	n.a.	green-blue translucent	none	24	Europe
7	7.d1	3	Glass	Monochrome	Opaque	Weathered	B1.3-01	P3	Wound	n.a.	n.a.	yellow opaque	none	20	Europe
7	7.e1	4	Glass	Monochrome	Opaque	Complete	B1.3-02	P3	Wound	n.a.	n.a.	red opaque	none	20	Europe

Grave 9

grave nr	findnr	subnr	Material	monochrome/ polychrome	Translucent /opaque	Condition	Vrielynck/ Mathis/ Pion Type	Phase	Technique	Size diameter (mm)	Size length (mm)	colour(s)	decoration	Shape	production region
9	9.c8	1	Glass	Monochrome	Translucent	Broken	B1.?	P?	Wound	n.a.	n.a.	blue translucent	none	7	Europe
9	9.c2	2	Shell	n.a.	n.a.	Weathered	F?	P?	cut	n.a.	n.a.	shell	none	4	Mediterranean
9	9.c2	3	Shell	n.a.	n.a.	Weathered	F?	P?	cut	n.a.	n.a.	shell	none	4	Mediterranean
9	9.c2	4	Shell	n.a.	n.a.	Weathered	F?	P?	cut	n.a.	n.a.	shell	none	4	Mediterranean
9	9.c3	5	Glass	Polychrome	Opaque	Weathered	B6.1-01?	P?	Wound	n.a.	n.a.	green opaque, yellow opaque, blue opaque	irregular dots	19	Europe
9	9.c4	6	Glass	Monochrome	Translucent	Complete	D?	P?	perforated	n.a.	n.a.	green-blue translucent	none	18	Europe
9	9.c5	7	Glass	Monochrome	Opaque	Complete	B1.3-02	P3	Wound	n.a.	n.a.	red opaque	none	20	Europe
9	9.c6	8	Glass	Monochrome	Translucent	Weathered	B1.3-06	P5	Wound	n.a.	n.a.	blue-green translucent	none	20	Europe
9	9.c4	9	Glass	Monochrome	Translucent	Complete	B1.1-11a	P?	Wound	n.a.	n.a.	green-blue translucent	none	18	Europe
9	9.c7	10	Glass	Monochrome	Opaque	Complete	B1.3-01	P3	Wound	n.a.	n.a.	yellow opaque	none	20	Europe
9	9.c2	11	Shell	Monochrome	Opaque	Weathered	F?	P?	cut	n.a.	n.a.	shell	none	4	Mediterranean
9	9.c2	12	Shell	Monochrome	Opaque	Weathered	F?	P?	cut	n.a.	n.a.	shell	none	4	Mediterranean
9	9.c2	13	Shell	n.a.	n.a.	Weathered	F?	P?	cut	n.a.	n.a.	shell	none	4	Mediterranean
9	9.c1	14	Glass	Monochrome	Translucent	Broken	B1.14-02	P?	Wound	n.a.	n.a.	blue translucent	none	22	Europe

Grave 19

grave nr	findnr	sub nr	Material	Monochrome /polychrome	Translucent /opaque	Condition	Vrielynck/ Mathis/ Pion Type	Phase	Technique	Size diameter (mm)	Size length (mm)	colour(s)	decoration	Shape	production region
19	19.1	1	glass	monochrome	opaque	weathered	B1.3-06	P5	wound	n.a.	n.a.	blue-green translucent	none	19	Europe
19	19.2	2	glass	monochrome	opaque	complete	B1.3-01	P3	wound	n.a.	n.a.	yellow opaque	none	20	Europe
19	19.3	3	glass	monochrome	opaque	weathered	A2.1-04	P2	drawn	n.a.	n.a.	green opaque	none	20	Near East
19	19.a1	4	glass	monochrome	opaque	complete	B1.8-05	P5	wound	n.a.	n.a.	white opaque	none	49	Europe
19	19.b	5	glass	monochrome	opaque	complete	B1.2-03c	P5	wound	n.a.	n.a.	white opaque	none	24	Europe
19	19.i1	6	glass	polychrome	both	complete	B8.2-03	P?	Wound	n.a.	n.a.	red opaque, white opaque, blue translucent	eyes	49	Europe
19	19.i2	7	glass	polychrome	opaque	complete	B8.2?	P?	wound	n.a.	n.a.	white opaque, green opaque, red opaque	eyes	32	Europe
19	19.j1	8	metal (bronze)	n.a.	n.a.	broken	F6?	P?	mold	n.a.	n.a.	bronze	none	40	Europe
19	19.j2	9	glass	monochrome	opaque	complete	B1.2-01a	P4	wound	n.a.	n.a.	yellow opaque	none	30	Europe
19	19.j2	10	glass	monochrome	opaque	complete	B1.2-01a	P4	wound	n.a.	n.a.	yellow opaque	none	30	Europe
19	19.j2	11	glass	monochrome	opaque	complete	B1.2-01a	P4	wound	n.a.	n.a.	yellow opaque	none	30	Europe
19	19.j3	12	glass	monochrome	opaque	complete	B1.2-01b	P4	wound	n.a.	n.a.	yellow opaque	none	25	Europe
19	19.j3	13	glass	monochrome	opaque	complete	B1.2-01b	P4	wound	n.a.	n.a.	yellow opaque	none	25	Europe
19	19.j3	14	glass	monochrome	opaque	complete	B1.2-01b	P4	wound	n.a.	n.a.	yellow opaque	none	25	Europe
19	19.j4	15	glass	monochrome	opaque	complete	B1.2-01c	P4	wound	n.a.	n.a.	yellow opaque	none	24	Europe
19	19.j5	16	glass	monochrome	opaque	complete	B1.1-03b	P1-P5	wound	n.a.	n.a.	red opaque	none	18	Europe
19	19.j5	17	glass	monochrome	opaque	complete	B1.1-03b	P1-P5	wound	n.a.	n.a.	red opaque	none	18	Europe
19	19.j6	18	glass	monochrome	opaque	complete	B1.1-04a	P1-P5	wound	n.a.	n.a.	white opaque	none	18	Europe
19	19.j7	19	glass	monochrome	opaque	complete	B1.3-01	P3	wound	n.a.	n.a.	yellow opaque	none	20	Europe
19	19.j8	20	amber	n.a.	n.a.	weathered	F.1.7	P4	cut	n.a.	n.a.	amber	none	15	Baltic
19	19.j9	21	glass	polychrome	opaque	complete	B11.1-02a	P2?	wound	n.a.	n.a.	red opaque, yellow opaque	none	20	Europe
19	19.j10	22	glass	polychrome	opaque	complete	B11.9-?	P?	wound	n.a.	n.a.	red opaque white opaque, green opaque	spirals	28	Europe
19	19.j11	23	glass	polychrome	opaque	complete	B11.4-?	P?	wound	n.a.	n.a.	red opaque, white opaque, blue opaque, green opaque	spirals, interlacing	19	Europe
19	19.j12	24	ceramics	monochrome	opaque	weathered	F8.?	P?	modelled	n.a.	n.a.	brown opaque	none	18	Europe
19	19.j13	25	glass	monochrome	opaque	complete	B1.3-01	P3	wound	n.a.	n.a.	yellow opaque	none	20	Europe
19	19.j13	26	glass	monochrome	opaque	complete	B1.3-01	P3	wound	n.a.	n.a.	yellow opaque	none	20	Europe
19	19.j14	27	glass	polychrome	opaque	complete	B11.2-01?	P?	wound	n.a.	n.a.	black opaque, white opaque, red opaque	waves, regular lines	19	Europe

19	19.j15	28	glass	polychrome	opaque	complete	B11.3-03b	P4	wound	n.a.	n.a.	red opaque, white opaque, yellow opaque	combed spiral, borders	27	Europe
19	19.j15	29	glass	polychrome	opaque	complete	B11.3-03b	P4	wound	n.a.	n.a.	red opaque, white opaque, yellow opaque	combed spiral, borders	27	Europe
19	19.j16	30	glass	monochrome	opaque	complete	B1.3-02	P3	wound	n.a.	n.a.	red opaque	none	20	Europe
19	19.j16	31	glass	monochrome	opaque	complete	B1.3-03	P3	wound	n.a.	n.a.	red opaque	none	20	Europe
19	19.j17	32	amber	n.a.	n.a.	complete	F.1.8-04	P1-P5	cut	n.a.	n.a.	amber	none	40	Baltic
19	19.j18	33	glass	monochrome	translucent	complete	B1.7-04	P5	wound	n.a.	n.a.	blue-green translucent	none	15	Europe
19	19.j19	34	glass	monochrome	opaque	complete	B1.1-04a	P1-P5	wound	n.a.	n.a.	white opaque	none	36	Europe
19	19.j19	35	glass	monochrome	opaque	complete	B1.1-04a	P1-P5	wound	n.a.	n.a.	white opaque	none	36	Europe
19	19.j19	36	glass	monochrome	opaque	complete	B1.1-04a	P1-P5	wound	n.a.	n.a.	white opaque	none	36	Europe
19	19.j19	37	glass	monochrome	opaque	complete	B1.1-04a	P1-P5	wound	n.a.	n.a.	white opaque	none	36	Europe
19	19.j20	38	glass	monochrome	translucent	complete	B1.3-06	P5	wound	n.a.	n.a.	blue-green translucent	none	20	Europe
19	19.j21	39	glass	polychrome	opaque	complete	B11.6-02a	P3	wound	n.a.	n.a.	white opaque, blue translucent, red opaque, yellow opaque	regular dots, lines, borders	9	Europe
19	19.j22	40	glass	monochrome	translucent	complete	B1.1-12a	P?	wound	n.a.	n.a.	blue-green translucent	none	18	Europe
19	19.j23	41	glass	polychrome	both	complete	B5.1-02?	P?	wound	n.a.	n.a.	yellow opaque, green translucent	spiral	28	Europe
19	19.j24	42	glass	polychrome	both	complete	B11.4-?	P?	wound	n.a.	n.a.	red opaque, white opaque, blue translucent	combed spiral, central line	20	Europe
19	19.j25	43	glass	monochrome	opaque	complete	B1.3-01	P3	wound	n.a.	n.a.	yellow opaque	none	20	Europe
19	19.j26	44	glass	monochrome	opaque	complete	B1.2-07	P4	wound	n.a.	n.a.	green translucent	none	25	Europe
19	19.j27	45	amber	n.a.	n.a.	complete	F1.8-04	P1-P5	cut	n.a.	n.a.	amber	none	40	Europe
19	19.j28	46	glass	monochrome	opaque	complete	B1.4-03a	P3	wound	n.a.	n.a.	white opaque	none	11	Europe
19	19.j29	47	glass	polychrome	opaque	complete	B11.?	P?	wound	n.a.	n.a.	black opaque, white opaque, yellow opaque, blue translucent	interlacing, eyes	19	Europe
19	19.j30	48	glass	monochrome	opaque	complete	B1.2-06	P4	wound	n.a.	n.a.	green-blue translucent	none	24	Europe
19	19.j31	49	glass	polychrome	both	complete	B8.2-05	P?	wound	n.a.	n.a.	blue translucent, white opaque, red opaque	none	2	Europe
19	19.j32	50	glass	monochrome	opaque	complete	B1.3-03	P3	wound	n.a.	n.a.	white opaque	none	20	Europe
19	19.j32	51	glass	monochrome	opaque	complete	B1.3-03	P3	wound	n.a.	n.a.	white opaque	none	20	Europe
19	19.j32	52	glass	monochrome	opaque	complete	B1.3-03	P3	wound	n.a.	n.a.	white opaque	none	20	Europe
19	19.j33	53	metal	n.a.	n.a.	complete	F6?	P?	mold	n.a.	n.a.	bronze	none	26	Europe
19	19.j34	54	amber	n.a.	n.a.	complete	F1.8-02	P1-P5	cut	n.a.	n.a.	amber	none	44	Baltic
19	19.j35	55	glass	monochrome	opaque	complete	B1.2-01c	P4	wound	n.a.	n.a.	yellow opaque	none	49	Europe
19	19.j36	56	glass	monochrome	opaque	complete	B1.2-01b	P4	wound	n.a.	n.a.	yellow opaque	none	25	Europe
19	19.j36	57	glass	monochrome	opaque	complete	B1.2-01b	P4	wound	n.a.	n.a.	yellow opaque	none	25	Europe

19	19.j36	58	glass	monochrome	opaque	complete	B1.2-01b	P4	wound	n.a.	n.a.	yellow opaque	none	25	Europe
19	19.j37	59	glass	monochrome	opaque	complete	B1.2-01a	P3	wound	n.a.	n.a.	yellow opaque	none	30	Europe
19	19.j38	60	glass	monochrome	opaque	complete	B1.1-03b	P1-P5	wound	n.a.	n.a.	rouge opaque	none	18	Europe
19	19.j39	61	glass	monochrome	opaque	complete	B1.2-02c	P4	wound	n.a.	n.a.	rouge opaque	none	24	Europe
19	19.j40	62	glass	monochrome	opaque	complete	B1.2-03b	P4	wound	n.a.	n.a.	white opaque	none	25	Europe
19	19.j41	63	glass	monochrome	opaque	complete	B1.2-02c	P4	wound	n.a.	n.a.	red opaque	none	24	Europe
19	19.j42	64	glass	polychrome	opaque	complete	B8.2-03	P?	wound	n.a.	n.a.	red opaque, white opaque, blue translucent	eyes	39	Europe
19	19.j43	65	glass	monochrome	opaque	complete	B1.1-02a	P2-P5	wound	n.a.	n.a.	yellow opaque	none	36	Europe

Grave 22

grave nr	findnr	subnr	Material	Monochrome /polychrome	Translucent /opaque	Condition	Vrielynck/ Mathis/ Pion Type	Phase	Technique	Size diameter (mm)	Size length (mm)	colour(s)	decoration	Shape	production region
22	22.c1	1	glass	polychrome	opaque	complete	B6.2-01b	P5	wound	n.a.	n.a.	red opaque, yellow opaque	regular dots	42	Europe
22	22.c1	2	glass	monochrome	opaque	complete	B1.2-01b	P4	wound	n.a.	n.a.	yellow opaque	non	25	Europe
22	22.f1	3	glass	monochrome	opaque	complete	B1.2-01b	P4	wound	n.a.	n.a.	yellow opaque	non	25	Europe
22	22.g1	4	glass	polychrome	opaque	complete	B6.2-01b	P2	wound	n.a.	n.a.	red opaque, yellow opaque	regular dots	42	Europe

Grave 27

grave nr	findnr	subnr	Material	Monochrome /polychrome	Translucent /opaque	Condition	Vrielynck/ Mathis/ Pion Type	Phase	Technique	Size diameter (mm)	Size length (mm)	colour(s)	decoration	Shape	production region
27	27.b1	1	glass	monochrome	translucent	complete	B1.8-07	P5	wound	n.a.	n.a.	green-blue translucent	none	29	Europe
27	27.f1	2	glass	monochrome	translucent	complete	B1.8-07	P5	wound	n.a.	n.a.	green-blue translucent	none	29	Europe
27	27.f2	3	glass	monochrome	translucent	complete	B1.8-07	P5	wound	n.a.	n.a.	green-blue translucent	none	34	Europe
27	27.i1	4	glass	monochrome	opaque	complete	B1.3-03	P3	wound	n.a.	n.a.	white opaque	none	20	Europe
27	27.j1	5	glass	monochrome	opaque	complete	B1.3-02	P3	wound	n.a.	n.a.	red opaque	none	20	Europe
27	27.j2	6	glass	monochrome	opaque	complete	B1.2-02b	P4	wound	n.a.	n.a.	yellow opaque	none	25	Europe
27	27.k1	7	glass	monochrome	translucent	complete	B1.8-07	P5	wound	n.a.	n.a.	green-blue translucent	none	29	Europe
27	27.l1	8	glass	monochrome	translucent	complete	B1.3-06	P5	wound	n.a.	n.a.	blue-green translucent	none	20	Europe

Grave 28

grave nr	findnr	sub nr	Material	Monochrome /polychrome	Translucent /opaque	Condition	Vrielynck/ Mathis/ Pion Type	Phase	Technique	Size diameter (mm)	Size length (mm)	colour(s)	decoration	Shap e	production region
28	28.c1	1	glass	monochrome	translucent	complete	B1.3-06	P5	wound	n.a.	n.a.	blue-green translucent	none	19	Europe
28	28.d1	2	glass	monochrome	opaque	complete	B1.4-01a	P3	wound	n.a.	n.a.	yellow opaque	none	35	Europe

Grave 29

grave nr	findnr	subnr	Material	Monochrome /polychrome	Translucent /opaque	Condition	Vrielynck / Mathis/ Pion Type	Phase	Technique	Size diameter (mm)	Size length (mm)	colour(s)	decoration	Shape	production region
29	29.b1	1	glass	monochrome	opaque	complete	B1.2-01c	P4	wound	n.a	n.a	yellow opaque	none	24	Europe

Grave 30

grav e nr	findn r	subn r	Materia l	Monochrom e /polychrome	Translucent /opaque	Conditio n	Vrielynck / Mathis/ Pion Type	Phas e	Techniqu e	Size diamete r (mm)	Size length (mm)	colour(s)	decoratio n	Shap e	production region
30	30.b1	1	glass	monochrome	opaque	complete	B1.1-02b	P1-P5	wound	n.a.	n.a.	yellow opaque	none	30	Europe

Grave 36

grave nr	findnr	subnr	Material	Monochrome /polychrome	Translucent /opaque	Condition	Vrielynck/ Mathis/ Pion Type	Phase	Technique	Size diameter (mm)	Size length (mm)	colour(s)	decoration	Shape	production region
36	36.c1	1	glass	monochrome	opaque	complete	B1.3-08	P4	wound	n.a.	n.a.	orange opaque	non	20	Europe
36	36.c1	2	glass	monochrome	opaque	complete	B1.3-08	P4	wound	n.a.	n.a.	orange opaque	non	20	Europe
36	36.c1	3	glass	monochrome	opaque	complete	B1.3-08	P4	wound	n.a.	n.a.	orange opaque	non	20	Europe
36	36.c2	4	glass	monochrome	opaque	complete	B1.1-04b	P1-P3	wound	n.a.	n.a.	white opaque	non	18	Europe

Grave 43

grave nr	findnr	subnr	Material	Monochrome /polychrome	Translucent /opaque	Condition	Vrielynck/ Mathis/ Pion Type	Phase	Technique	Size diameter (mm)	Size length (mm)	colour(s)	decoration	Shape	production region
43	43.1	1	Glass	monochrome	opaque	complete	B1.4-02a	P3	wound	n.a.	n.a.	red opaque	non	35	Europe
43	43.b1	2	Glass	monochrome	opaque	complete	B1.4-02a	P3	wound	n.a.	n.a.	red opaque	non	11	Europe
43	43.c1	3	Glass	monochrome	opaque	complete	B1.1-04b	P1-P3	wound	n.a.	n.a.	white opaque	non	18	Europe
43	43.e1	4	Glass	polychrome	opaque	complete	B3.2-01a	P3	wound	n.a.	n.a.	red opaque, white opaque	interlacing	18	Europe

Grave 45

grave nr	findnr	subnr	Material	Monochrome /polychrome	Translucent /opaque	Condition	Vrielynck/ Mathis/ Pion Type	Phase	Technique	Size diameter (mm)	Size length (mm)	colour(s)	decoration	Shape	production region
45	45.a1	1	glass	monochrome	translucent	complete	B1.7-04	P5	wound	n.a.	n.a.	blue-green translucent	none	15	Europe
45	45.b1	2	glass	monochrome	opaque	complete	B1.8-02	P5	wound	n.a.	n.a.	yellow opaque	none	29	Europe
45	45.c1	3	glass	monochrome	opaque	broken	B1.7-02	P5	wound	n.a.	n.a.	white opaque	none	15	Europe
45	45.g1	4	glass	monochrome	translucent	complete	B1.8-07	P5	wound	n.a.	n.a.	blue-green translucent	none	29	Europe
45	45.h1	5	glass	monochrome	translucent	complete	B1.2-05	P4	wound	n.a.	n.a.	blue-green translucent	none	25	Europe
45	45.i1	6	glass	monochrome	translucent	complete	B1.1-02b	P1-P5	wound	n.a.	n.a.	yellow opaque	none	18	Europe
45	45.j1	7	glass	monochrome	opaque	complete	B1.7-04	P5	wound	n.a.	n.a.	blue-green translucent	none	15	Europe
45	45.k1	8	glass	monochrome	translucent	weathered	B1.2-07	P4	wound	n.a.	n.a.	green translucent	none	24	Europe
45	45.m1	9	glass	monochrome	opaque	complete	B1.8-07	P5	wound	n.a.	n.a.	blue-green translucent	none	29	Europe
45	45.l1	10	glass	monochrome	translucent	complete	B1.8-02	P5	wound	n.a.	n.a.	yellow opaque	none	29	Europe
45	45.p1	11	glass	monochrome	opaque	complete	B1.8-02	P5	wound	n.a.	n.a.	yellow opaque	none	29	Europe
45	45.p2	12	glass	monochrome	opaque	complete	B1.8-02	P5	wound	n.a.	n.a.	yellow opaque	none	29	Europe
45	45.p3	13	glass	monochrome	opaque	complete	B1.8-02	P5	wound	n.a.	n.a.	yellow opaque	none	29	Europe
45	45.q1	14	glass	monochrome	opaque	complete	B1.2-01b	P4	wound	n.a.	n.a.	yellow opaque	none	25	Europe
45	45.r1	15	glass	monochrome	translucent	complete	B1.2-05	P4	wound	n.a.	n.a.	blue-green translucent	none	29	Europe
45	45.s1	16	glass	monochrome	opaque	broken	B1.3-02	P3	wound	n.a.	n.a.	red opaque	none	20	Europe
45	45.t1	17	glass	monochrome	opaque	complete	B1.3-03	P3	wound	n.a.	n.a.	white opaque	none	20	Europe

Grave 53

grave nr	findnr	subnr	Material	Monochrome /polychrome	Translucent /opaque	Condition	Vrielynck/ Mathis/ Pion Type	Phase	Technique	Size diameter (mm)	Size length (mm)	colour(s)	decoration	Shape	production region
53	53.nn1	1	amber	monochrome	translucent	complete	F1.8-02	P1-P3	cut	n.a.	n.a.	amber	none	40	Baltic
53	53.nn2	2	glass	monochrome	opaque	complete	B1.2-01a	P4	wound	n.a.	n.a.	yellow opaque	none	30	Europe
53	53.dd1	3	glass	monochrome	opaque	complete	B1.2-01b	P4	wound	n.a.	n.a.	yellow opaque	none	25	Europe
53	55.ll1	4	glass	monochrome	translucent	complete	B1.2-04b	P4	wound	n.a.	n.a.	blue translucent	none	25	Europe
53	53.ll1	5	glass	monochrome	translucent	complete	B1.2-04b	P4	wound	n.a.	n.a.	blue translucent	none	25	Europe
53	53.o1	6	glass	monochrome	opaque	complete	B1.2-01a	P4	wound	n.a.	n.a.	yellow opaque	none	30	Europe
53	53.o1	7	glass	monochrome	opaque	complete	B1.2-01a	P4	wound	n.a.	n.a.	yellow opaque	none	30	Europe
53	53.kk1	8	glass	monochrome	opaque	complete	B1.2-01a	P4	wound	n.a.	n.a.	yellow opaque	none	30	Europe
53	53.ee1	9	glass	monochrome	opaque	complete	B1.2-01a	P4	wound	n.a.	n.a.	yellow opaque	none	30	Europe
53	53.ee2	10	glass	monochrome	opaque	complete	B1.2-01b	P4	wound	n.a.	n.a.	yellow opaque	none	25	Europe
53	53.l1	11	glass	monochrome	opaque	complete	B1.2-01a	P4	wound	n.a.	n.a.	yellow opaque	none	30	Europe
53	53.k1	12	glass	monochrome	opaque	weathered	B1.2-03b	P4	wound	n.a.	n.a.	white opaque	none	25	Europe
53	53.bb1	13	glass	monochrome	translucent	complete	B1.2-04c	P4	wound	n.a.	n.a.	blue translucent	none	24	Europe
53	53.oo1	14	glass	monochrome	opaque	complete	B1.1-01a	P0-P3	wound	n.a.	n.a.	black opaque	none	18	Europe
53	53.c1	15	glass	monochrome	opaque	complete	B1.2-01a	P4	wound	n.a.	n.a.	yellow opaque	none	30	Europe
53	53.e1	16	amber	n.a.	n.a.	complete	F1.8-04	P1-P5	cut	n.a.	n.a.	amber	none	22	Baltic
53	53.cc1	17	glass	monochrome	opaque	complete	B1.2-01c	P4	wound	n.a.	n.a.	yellow opaque	none	24	Europe
53	53.i1	18	glass	monochrome	opaque	complete	B1.2-03c	P4	wound	n.a.	n.a.	white opaque	none	24	Europe
53	53.n1	19	glass	monochrome	opaque	complete	B1.2-01a	P4	wound	n.a.	n.a.	yellow opaque	none	30	Europe
53	53.x1	20	glass	monochrome	opaque	complete	B1.2-01a	P4	wound	n.a.	n.a.	yellow opaque	none	30	Europe

Grave 77

grave nr	findnr	subnr	Material	Monochrome /polychrome	Translucent /opaque	Condition	Vrielynck/ Mathis/ Pion Type	Phase	Technique	Size diameter (mm)	Size length (mm)	colour(s)	decoration	Shape	production region
77	77.d1	1	amber	n.a.	n.a.	complete	F1.8-04	P1-P5	cut	n.a.	n.a.	amber	none	42	Baltic

Grave 88

grave nr	findnr	subnr	Material	Monochrome /polychrome	Translucent /opaque	Condition	Vrielynck/ Mathis/ Pion Type	Phase	Technique	Size diameter (mm)	Size length (mm)	colour(s)	decoration	Shape	production region
88	88.c6	1	glass	monochrome	translucent	complete	B1.14-?	P?	wound	n.a.	n.a.	brown translucent	none	22	Europe
88	88.c1	2	glass	monochrome	opaque	complete	B1.11-01	P5	wound	n.a.	n.a.	white opaque	none	4	Europe
88	88.c6	3	glass	monochrome	translucent	complete	B1.14-?	P?	wound	n.a.	n.a.	brown translucent	none	22	Europe
88	88.c1	4	glass	monochrome	opaque	complete	B1.11-01	P5	wound	n.a.	n.a.	white opaque	none	4	Europe
88	88.c2	5	glass	monochrome	opaque	broken	B1.8-02	P5	wound	n.a.	n.a.	yellow opaque	none	29	Europe
88	88?	6	glass	monochrome	opaque	complete	B1.3-01	P3	wound	n.a.	n.a.	yellow opaque	none	20	Europe
88	88.c5	7	glass	monochrome	translucent	weathered	B1.7-05	P5	wound	n.a.	n.a.	colourless translucent	none	22	Europe
88	88.c1	8	glass	monochrome	opaque	complete	B1.11-01	P5	wound	n.a.	n.a.	white opaque	none	4	Europe
88	88.c7	9	glass	monochrome	opaque	complete	B1.3-09d	P5	wound	n.a.	n.a.	green opaque	none	20	Europe
88	88.c2	10	glass	monochrome	opaque	complete	B1.8-02	P5	wound	n.a.	n.a.	yellow opaque	none	29	Europe
88	88.c6	11	glass	monochrome	translucent	complete	B1.14-?	P?	wound	n.a.	n.a.	brown translucent	none	22	Europe
88	88.c1	12	glass	monochrome	opaque	complete	B1.11-01	P5	wound	n.a.	n.a.	white opaque	none	4	Europe
88	88.c2	13	glass	monochrome	opaque	complete	B1.8-02	P5	wound	n.a.	n.a.	yellow opaque	none	29	Europe
88	88.c2	14	glass	monochrome	opaque	weathered	B1.8-02	P5	wound	n.a.	n.a.	yellow opaque	none	29	Europe
88	88.c4	15	glass	monochrome	opaque	complete	B1.8-07	P5	wound	n.a.	n.a.	blue-green opaque	none	29	Europe
88	88.c1	16	glass	monochrome	opaque	complete	B1.11-01	P5	wound	n.a.	n.a.	white opaque	none	4	Europe
88	88.c5	17	glass	monochrome	translucent	weathered	B1.7-05	P5	wound	n.a.	n.a.	colourless translucent	none	22	Europe
88	88.c4	18	glass	monochrome	opaque	complete	B1.8-07	P5	wound	n.a.	n.a.	blue-green opaque	none	29	Europe
88	88.c1	19	glass	monochrome	opaque	complete	B1.11-01	P5	wound	n.a.	n.a.	white opaque	none	4	Europe
88	88.c6	20	glass	monochrome	translucent	complete	B1.14-?	P?	wound	n.a.	n.a.	brown translucent	none	22	Europe
88	88.c4	21	glass	monochrome	opaque	broken	B1.8-07	P5	wound	n.a.	n.a.	blue-green opaque	none	29	Europe
88	88.c1	22	glass	monochrome	opaque	complete	B1.11-01	P5	wound	n.a.	n.a.	white opaque	none	4	Europe
88	88.c2	23	glass	monochrome	opaque	complete	B1.8-02	P5	wound	n.a.	n.a.	yellow opaque	none	29	Europe
88	88.c3	24	glass	monochrome	opaque	complete	B1.8-03	P5	wound	n.a.	n.a.	red opaque	none	29	Europe
88	88.c2	25	glass	monochrome	opaque	complete	B1.8-02	P5	wound	n.a.	n.a.	yellow opaque	none	29	Europe
88	88.c2	26	glass	monochrome	opaque	complete	B1.8-02	P5	wound	n.a.	n.a.	yellow opaque	none	29	Europe

Grave 89

grave nr	findnr	subnr	Material	Monochrome /polychrome	Translucent /opaque	Condition	Vrielynck/ Mathis/ Pion Type	Phase	Technique	Size diameter (mm)	Size length (mm)	colour(s)	decoration	Shape	production region
89	89.g1	1	glass	monochrome	opaque	complete	B1.3-01	P3	wound	n.a.	n.a.	yellow opaque	non	20	Europe
89	89.g2	2	glass	monochrome	opaque	complete	B1.11-01	P5	wound	n.a.	n.a.	white opaque	non	4	Europe
89	89.g3	3	glass	monochrome	translucent	complete	B1.8-07	P5	wound	n.a.	n.a.	blue translucent	non	34	Europe
89	89.g4	4	glass	monochrome	opaque	complete	B1.3-03	P3	wound	n.a.	n.a.	white opaque	non	19	Europe
89	89.g5	5	glass	polychrome	both	broken	B6.4-?	P?	wound	n.a.	n.a.	red opaque, green opaque, white opaque, blue translucent	irregular dots	26	Europe
89	89.g6	6	glass	monochrome	opaque	complete	B1.8-02	P5	wound	n.a.	n.a.	yellow opaque	non	29	Europe
89	89.g7	7	glass	monochrome	opaque	complete	B1.3-08	P4	wound	n.a.	n.a.	orange opaque	non	20	Europe
89	89.g3	8	glass	monochrome	translucent	complete	B1.8-07	P5	wound	n.a.	n.a.	blue translucent	non	29	Europe
89	89.g8	9	glass	polychrome	both	complete	B6.2-01b	P5	wound	n.a.	n.a.	red opaque, yellow opaque	regular dots	23	Europe
89	89.g9	10	glass	monochrome	opaque	complete	B1.3-03	P3	wound	n.a.	n.a.	white opaque	non	20	Europe
89	89.g2	11	glass	monochrome	opaque	complete	B1.11-01	P5	wound	n.a.	n.a.	white opaque	non	4	Europe
89	89.g2	12	glass	monochrome	opaque	complete	B1.11-01	P5	wound	n.a.	n.a.	white opaque	non	4	Europe
89	89.g10	13	glass	monochrome	opaque	complete	B1.2-08?	P4?	wound	n.a.	n.a.	green opaque	non	25	Europe
89	89.g11	14	glass	monochrome	opaque	complete	B1.3-01	P3	wound	n.a.	n.a.	yellow opaque	non	20	Europe
89	89.g2	15	glass	monochrome	opaque	complete	B1.11-01	P5	wound	n.a.	n.a.	white opaque	non	4	Europe
89	89.g6	16	glass	monochrome	opaque	complete	B1.8-02	P5	wound	n.a.	n.a.	yellow opaque	non	29	Europe
89	89.g12	17	amber	n.a.	n.a.	complete	F1.8-04	P1-5	cut	n.a.	n.a.	amber	non	40	Baltic
89	89.g13	18	glass	monochrome	opaque	complete	B1.7-03	P5	wound	n.a.	n.a.	green opaque	non	15	Europe
89	89.g4	19	glass	monochrome	opaque	complete	B1.3-03	P3	wound	n.a.	n.a.	white opaque	non	19	Europe
89	89.g2	20	glass	monochrome	opaque	complete	B1.11-01	P5	wound	n.a.	n.a.	white opaque	non	4	Europe
89	89.g4	21	glass	monochrome	opaque	complete	B1.3-03	P3	wound	n.a.	n.a.	white opaque	non	19	Europe
89	89.g12	22	amber	n.a.	n.a.	complete	F1.8-04	P1-5	cut	n.a.	n.a.	amber	non	40	Baltic
89	89.g14	23	glass	monochrome	opaque	complete	B1.4-07	P5	wound	n.a.	n.a.	green opaque	non	11	Europe
89	89.g15	24	glass	monochrome	opaque	complete	B1.7-03	P5	wound	n.a.	n.a.	green opaque	non	15	Europe

Grave 122

grave nr	findnr	subnr	Material	Monochrome /polychrome	Translucent /opaque	Condition	Vrielynck/ Mathis/ Pion Type	Phase	Technique	Size diameter (mm)	Size length (mm)	colour(s)	decoration	Shape	production region
122	122.c1	1	glass	monochrome	opaque	complete	D?	P6	?	n.a.	n.a.	orange opaque	none	19	Europe
122	122.c4	2	glass	monochrome	opaque	complete	B1.4-01a	P3	wound	n.a.	n.a.	yellow opaque	none	11	Europe
122	122.c1	3	glass	monochrome	opaque	complete	B1.3-09a	P4	wound	n.a.	n.a.	orange opaque	none	19	Europe
122	122.c1	4	glass	monochrome	opaque	complete	D?	P6	?	n.a.	n.a.	orange opaque	none	19	Europe
122	122.c1	5	glass	monochrome	opaque	complete	B1.3-09a	P4	wound	n.a.	n.a.	orange opaque	none	19	Europe
122	122.c1	6	glass	monochrome	opaque	complete	D?	P6	?	n.a.	n.a.	orange opaque	none	19	Europe
122	122.c3	7	glass	monochrome	translucent	complete	B1.3-06	P5	wound	n.a.	n.a.	blue-green translucent	none	20	Europe
122	122.c10	8	glass	monochrome	translucent	complete	B1.7-04	P5	wound	n.a.	n.a.	blue translucent	none	15	Europe
122	122.c3	9	glass	monochrome	translucent	complete	B1.3-06	P5	wound	n.a.	n.a.	blue-green translucent	none	20	Europe
122	122.c12	10	glass	monochrome	translucent	complete	D?	P6	perforated	n.a.	n.a.	yellow translucent	none	18	Europe
122	122.c1	11	glass	monochrome	opaque	complete	D?	P6	?	n.a.	n.a.	orange opaque	none	19	Europe
122	122.c11	12	glass	polychrome	both	complete	B2.6-03	P5	wound	n.a.	n.a.	blue-green translucent, white opaque	wave	20	Europe
122	122.c7	13	glass	polychrome	both	complete	B6.1-?	P6	wound	n.a.	n.a.	blue opaque, red opaque yellow opaque, white opaque, green opaque	irregular dots	19	Europe
122	122.c1	14	glass	monochrome	opaque	complete	D?	P6	?	n.a.	n.a.	orange opaque	none	19	Europe
122	122.c1	15	glass	monochrome	opaque	complete	B1.3-09a	P4	wound	n.a.	n.a.	orange opaque	none	19	Europe
122	122.c13	16	glass	monochrome	translucent	complete	B1.5-02a	P?	wound	n.a.	n.a.	blue translucent	none	17	Europe
122	122.c1	17	glass	monochrome	opaque	complete	D?	P6	?	n.a.	n.a.	orange opaque	none	19	Europe
122	122.c8	18	glass	monochrome	opaque	complete	B1.4-05a	P3	wound	n.a.	n.a.	green opaque	none	11	Europe
122	122.c1	19	glass	monochrome	opaque	complete	D?	P6	?	n.a.	n.a.	orange opaque	none	19	Europe
122	122.c8	20	glass	monochrome	opaque	complete	B1.4-05a	P3	wound	n.a.	n.a.	green opaque	none	11	Europe
122	122.c14	21	glass	monochrome	translucent	complete	B1.14-02	P?	wound	n.a.	n.a.	blue translucent	none	22	Europe
122	122.c1	22	glass	monochrome	opaque	complete	B1.3-09a	P4	wound	n.a.	n.a.	orange opaque	none	19	Europe
122	122.c1	23	glass	monochrome	opaque	complete	B1.3-09a	P4	wound	n.a.	n.a.	orange opaque	none	19	Europe
122	122.c9	24	glass	monochrome	translucent	complete	B1.1-06b	P0-P3	wound	n.a.	n.a.	blue translucent	none	18	Europe
122	122.c1	25	glass	monochrome	opaque	complete	D?	P6	?	n.a.	n.a.	orange opaque	none	19	Europe
122	122.c1	26	glass	monochrome	opaque	complete	B1.3-09a	P4	wound	n.a.	n.a.	orange opaque	none	19	Europe
122	122.c1	27	glass	monochrome	opaque	complete	B1.3-09a	P4	wound	n.a.	n.a.	orange opaque	none	19	Europe
122	122.c7	28	glass	polychrome	both	complete	B6.1-?	P6	wound	n.a.	n.a.	blue opaque, red opaque yellow opaque, white opaque, green opaque	irregular dots	19	Europe
122	122.c5	29	glass	monochrome	opaque	complete	B1.4-02a	P3	wound	n.a.	n.a.	red opaque	none	11	Europe

122	122.c8	30	glass	monochrome	opaque	complete	B1.4-05a	P3	wound	n.a.	n.a.	green opaque	none	11	Europe
122	122.c4	31	glass	monochrome	opaque	complete	B1.4-01a	P3	wound	n.a.	n.a.	yellow opaque	none	11	Europe
122	122.c2	32	glass	monochrome	opaque	complete	B1.3-09a	P4	wound	n.a.	n.a.	orange opaque	none	20	Europe
122	122.c1	33	glass	monochrome	opaque	complete	B1.3-09a	P4	wound	n.a.	n.a.	orange opaque	none	19	Europe
122	122.c7	34	glass	polychrome	both	complete	B6.1-?	P6	wound	n.a.	n.a.	blue opaque, red opaque yellow opaque, white opaque, green opaque	irregular dots	19	Europe
122	122.c1	35	glass	monochrome	opaque	complete	D?	P6	?	n.a.	n.a.	orange opaque	none	19	Europe
122	122.c7	36	glass	polychrome	both	complete	B6.1-?	P6	wound	n.a.	n.a.	blue opaque, red opaque yellow opaque, white opaque, green opaque	irregular dots	19	Europe
122	122.c1	37	glass	monochrome	opaque	complete	D?	P6	?	n.a.	n.a.	orange opaque	none	19	Europe
122	122.c1	38	glass	monochrome	opaque	complete	D?	P6	?	n.a.	n.a.	orange opaque	none	19	Europe
122	122.c6	39	glass	monochrome	translucent	complete	B1.5-07	P5	wound	n.a.	n.a.	blue-green translucent	none	43	Europe
122	122.c2	40	glass	monochrome	opaque	complete	D?	P6	?	n.a.	n.a.	orange opaque	none	19	Europe
122	122.c3	41	glass	monochrome	translucent	complete	B1.3-06	P5	wound	n.a.	n.a.	blue-green translucent	none	20	Europe
122	122.c3	42	glass	monochrome	translucent	complete	B1.3-06	P5	wound	n.a.	n.a.	blue-green translucent	none	20	Europe
122	122.c3	43	glass	monochrome	translucent	complete	B1.3-06	P5	wound	n.a.	n.a.	blue-green translucent	none	20	Europe
122	122.c1	44	glass	monochrome	opaque	complete	B1.3-09a	P4	wound	n.a.	n.a.	orange opaque	none	19	Europe
122	122.c5	45	glass	monochrome	opaque	complete	B1.4-02a	P3	wound	n.a.	n.a.	red opaque	none	11	Europe
122	122.c4	46	glass	monochrome	opaque	complete	B1.4-01a	P3	wound	n.a.	n.a.	yellow opaque	none	11	Europe
122	122.c1	47	glass	monochrome	opaque	complete	B1.3-09a	P4	wound	n.a.	n.a.	orange opaque	none	19	Europe
122	122.c1	48	glass	monochrome	opaque	complete	D?	P6	?	n.a.	n.a.	orange opaque	none	19	Europe
122	122.c3	49	glass	monochrome	translucent	complete	B1.3-06	P5	wound	n.a.	n.a.	blue-green translucent	none	20	Europe
122	122.c1	50	glass	monochrome	opaque	complete	D?	P6	?	n.a.	n.a.	orange opaque	none	19	Europe
122	122.c2	51	glass	monochrome	opaque	complete	B1.3-09a	P4	wound	n.a.	n.a.	orange opaque	none	20	Europe

Stray Find

findnr	subnr	Material	Monochrome /polychrome	Translucent /opaque	Condition	Vrielynck/ Mathis/ Pion Type	Phase	Technique	Size diameter (mm)	Size length (mm)	colour(s)	decoration	Shape	production region
0.57-7	1	faience	monochrome	opaque	broken	G1.2-05	Roman	modeled	n.a.	n.a.	blue-green opaque	non	28	Egypt

Missing Beads

gravenr	findnr	subnr	Material	Monochrome /polychrome	Translucent /opaque	Condition	Vrielynck/ Mathis/ Pion Type	Phase	Technique	Size diameter (mm)	Size length (mm)	colour(s)	decoration	Shape	production region
7	7.2	1	glass	polychrome	opaque	missing	B6.2-01b	P5	wound	n.a.	n.a.	red opaque, yellow opaque	regular dots	23	Europe
17	17.c	2	glass	monochrome	opaque	missing	B?	P?	wound	n.a.	n.a.	yellow opaque	none	?	Europe
17	17.e1	3	glass	monochrome	?	missing	?	P?	?	n.a.	n.a.	blue	none	?	?
17	17.e2	4	glass	monochrome	opaque	lost	B?	P?	wound	n.a.	n.a.	yellow opaque	none	?	Europe
17	17.e2	5	glass	monochrome	opaque	lost	B?	P?	wound	n.a.	n.a.	yellow opaque	none	?	Europe
17	17.g	6	glass	monochrome	opaque	lost	B?	P?	wound	n.a.	n.a.	yellow opaque	none	?	Europe
21	21.k	7	glass	monochrome	?	missing	?	P?	?	n.a.	n.a.	green-blue	none	?	?
45	45.d	8	glass	?	?	missing	?	P?	?	n.a.	n.a.	?	?	?	?
45	45.n	9	glass	?	?	missing	?	P?	?	n.a.	n.a.	?	?	?	?
47	47.b	10	glass	?	?	missing	?	P?	?	n.a.	n.a.	?	?	?	?
47	47.c	11	glass	monochrome	?	missing	?	P?	?	n.a.	n.a.	green	none	?	?
47	47.d	12	glass	?	?	missing	?	P?	?	n.a.	n.a.	?	?	?	?
47	47.e	13	amber	x	x	missing	F1.?	P?	cut	n.a.	n.a.	amber	none	?	Baltic
47	47.f	14	glass	?		missing	?	P?	?	n.a.	n.a.	?	?	?	?
47	47.g	15	glass	polychrome	unknown	missing	B?	P?	wound	n.a.	n.a.	red opaque, yellow opaque	?	?	Europe
47	47.i	16	glass	monochrome	translucent	missing	B1.8-07	P5	wound	n.a.	n.a.	blue-green translucent	none	29/34	Europe
47	47.n	17	amber	n.a.	n.a.	missing	F1?	P?	cut	n.a.	n.a.	amber	none	?	?
47	47.o	18	glass	?	?	missing	?	P?	?	n.a.	n.a.	?	?	?	?
47	47.r	19	glass	?	?	missing	?	P?	?	n.a.	n.a.	?	?	?	?
47	47.r	20	glass	?	?	missing	?	P?	?	n.a.	n.a.	?	?	?	?
47	47.s	21	glass	?	?	missing	?	P?	?	n.a.	n.a.	?	?	?	?
47	47.t	22	glass	monochrome	translucent	missing	?	P?	?	n.a.	n.a.	colourless translucent	none	?	?
47	47.u	23	glass	?	?	missing	?	P?	?	n.a.	n.a.	?	?	?	?
47	47.v	24	glass	?	?	missing	?	P?	?	n.a.	n.a.	?	?	?	?
47	47.w	25	glass	?	?	missing	?	P?	?	n.a.	n.a.	?	?	?	?
47	47.x	26	amber	monochrome	unknown	missing	F1?	P?	cut	n.a.	n.a.	?	?	?	?
50	50.a	27	glass	monochrome	opaque	missing	B1.8-02	P5	wound	n.a.	n.a.	yellow opaque	none	29/34	Europe
50	50.b	28	amber	n.a.	n.a.	missing	F1?	P?	cut	n.a.	n.a.	?	?	?	Baltic
50	50.c	29	glass	monochrome	opaque	missing	B1.2-01b	P4	wound	n.a.	n.a.	yellow opaque	none	25	Europe
50	50.d	30	glass	monochrome	?	missing	?	P?	?	n.a.	n.a.	green	none	?	?
50	50.e	31	glass	monochrome	opaque	missing	B1.2-01b	P4	wound	n.a.	n.a.	red opaque	none	24	Europe
50	50.f	32	glass	monochrome	?	missing	?	P?	?	n.a.	n.a.	white opaque	none	?	?
50	50.l	33	glass	monochrome	?	missing	?	P?	?	n.a.	n.a.	green	none	?	?
53	53.a	34	glass	monochrome	opaque	missing	B?	P?	wound	n.a.	n.a.	yellow opaque	none	?	Europe
53	53.f	35	glass	monochrome	opaque	missing	B?	P?	wound	n.a.	n.a.	yellow opaque	none	?	Europe

53	53.mm	36	glass	?	?	missing	?	P?	?	n.a.	n.a.	?	?	?	?
53	53.t	37	glass	monochrome	?	missing	?	P?	?	n.a.	n.a.	green	none	?	?
56	56.j	38	glass	?	?	missing	?	P?	?	n.a.	n.a.	?	?	?	?
56	56.m	39	glass	polychrome	opaque	missing	B?	P?	wound	n.a.	n.a.	red opaque, white opaque	?	?	Europe
56	56.n	40	glass	?	?	missing	?	P?	?	n.a.	n.a.	?	?	?	?
56	56.n	41	glass	?	?	missing	?	P?	?	n.a.	n.a.	?	?	?	?
56	56.n	42	glass	?	?	missing	?	P?	?	n.a.	n.a.	?	?	?	?
56	56.o	43	glass	polychrome	?	missing	?	P?	?	n.a.	n.a.	yellow, blue	?	?	Europe
56	56.p	44	glass	?	?	missing	?	P?	?	n.a.	n.a.	?	?	?	?
56	56.q	45	glass	unknown	?	missing	?	P?	?	n.a.	n.a.	yellow, blue	?	?	Europe
56	56.r	46	glass	?	?	missing	?	P?	?	n.a.	n.a.	?	?	?	?
66	66.a	47	glass	polychrome	?	missing	?	P?	?	n.a.	n.a.	?	?	?	?
66	66.b	48	glass	monochrome	opaque	missing	B1.11-01	P5	wound	n.a.	n.a.	white opaque	none	4	Europe
66	66.c	49	glass	polychrome	opaque	missing	B?	P?	wound	n.a.	n.a.	red opaque, yellow opaque	?	?	Europe
66	66.d1	50	glass	polychrome	opaque	missing	B?	P?	wound	n.a.	n.a.	red opaque, yellow opaque, white opaque	?	?	Europe
66	66.e	51	glass	monochrome	opaque	missing	B1.8-04	P5	wound	n.a.	n.a.	green opaque	none	29/34	Europe
66	66.f	52	glass	polychrome	opaque	missing	B?	P?	wound	n.a.	n.a.	green opaque	?	?	Europe
66	66.g	53	glass	polychrome	both	missing	B?	P?	wound	n.a.	n.a.	white opaque, blue translucent	?	?	Europe
66	66.h	54	glass	monochrome	opaque	missing	B1.8-04	P5	wound	n.a.	n.a.	green opaque	none	29/34	Europe
66	66.i	55	glass	polychrome	opaque	missing	B?	P?	wound	n.a.	n.a.	red opaque, yellow opaque	none	?	Europe
66	66.j	56	glass	monochrome	opaque	missing	?	P?	?	n.a.	n.a.	white opaque	none	?	?
66	66.k	57	glass	monochrome	?	missing	?	P?	?	n.a.	n.a.	green	none	?	?
66	66.l	58	glass	monochrome	opaque	missing	?	P?	?	n.a.	n.a.	yellow opaque	none	?	?
66	66.m	59	glass	monochrome	opaque	missing	?	P?	?	n.a.	n.a.	orange/yellow	none	?	?
66	66.n	60	glass	polychrome	opaque	missing	B?	P?	wound	n.a.	n.a.	red opaque, yellow opaque	?	?	Europe
66	66.o	61	glass	?	?	missing	?	P?	?	n.a.	n.a.	?	?	?	?
66	66.p	62	glass	polychrome	?	missing	?	P?	?	n.a.	n.a.	?	?	?	?
66	66.q	63	glass	monochrome	?	missing	?	P?	?	n.a.	n.a.	green	?	?	?
66	66.r	64	glass	polychrome	?	missing	?	P?	?	n.a.	n.a.	?	?	?	?
66	66.s	65	glass	monochrome	?	missing	?	P?	?	n.a.	n.a.	yellow	?	?	?
66	66.t	66	glass	monochrome	?	missing	B1.3?	P?	wound	n.a.	n.a.	blue	?	20	Europe
66	66.u	67	glass	monochrome	opaque	missing	B1.11-01	P5	wound	n.a.	n.a.	white opaque	none	4	Europe
66	66.v	68	glass	monochrome	opaque	missing	B1.3-01	P3	wound	n.a.	n.a.	yellow opaque	none	20	Europe
66	66.w	69	glass	monochrome	opaque	missing	B1.3-02	P3	wound	n.a.	n.a.	red opaque	none	20	Europe
66	66.x	70	glass	monochrome	?	missing	B1.3?	P?	wound	n.a.	n.a.	blue	none	20	Europe
66	66.bb	71	glass	monochrome	?	missing	?	P?	?	n.a.	n.a.	white	?	?	?
71	71.b	72	glass	monochrome	?	missing	B1.8-?	P?	wound	n.a.	n.a.	blue	none	29/34	Europe
71	71.c	73	glass	monochrome	opaque	missing	B1.3-08/09	P4	wound	n.a.	n.a.	orange opaque	none	19	Europe
71	71.d	74	glass	monochrome	?	missing	?	P?	?	n.a.	n.a.	blue	?	?	?
71	71.e	75	glass	monochrome	?	missing	B1.8-?	P?	wound	n.a.	n.a.	blue	?	29/32	Europe

71	71.e	76	glass	monochrome	?	missing	B1.8-?	P?	wound	n.a.	n.a.	blue	?	29/33	Europe
71	71.f	77	glass	monochrome	opaque	missing	B1.8-02	P5	wound	n.a.	n.a.	yellow opaque	none	29/34	Europe
71	71.g	78	glass	monochrome	opaque	missing	?	P?	?	n.a.	n.a.	yellow opaque	?	?	?
71	71.g	79	glass	monochrome	opaque	missing	?	P?	?	n.a.	n.a.	red opaque	?	?	?
71	71.g	80	glass	monochrome	?	missing	?	P?	?	n.a.	n.a.	blue	?	?	?
71	71.h	81	glass	monochrome	opaque	missing	B1.8-02	P5	wound	n.a.	n.a.	yellow opaque	none	29/34	Europe
71	71.h	82	glass	monochrome	opaque	missing	B1.8-03	P5	wound	n.a.	n.a.	red opaque	none	29/34	Europe
71	71.h	83	glass	monochrome	?	missing	B1.8-?	P?	wound	n.a.	n.a.	blue	none	29/34	Europe
74	74.e	84	glass	monochrome	?	missing	?	P?	?	n.a.	n.a.	blue	?	?	?
75	74.e	85	glass	monochrome	?	missing	?	P?	?	n.a.	n.a.	blue	?	?	?
81	81.d	86	glass	monochrome	opaque	missing	B1.2-01c	P4	wound	n.a.	n.a.	yellow opaque	none	24	Europe
81	81.e	87	glass	monochrome	translucent	missing	B1.2-04c	P4	wound	n.a.	n.a.	blue translucent	none	24	Europe
82	82.n	88	glass	?	?	missing	?	P?	?	n.a.	n.a.	?	?	?	?
85	85.j	89	glass	?	?	missing	?	P?	?	n.a.	n.a.	?	?	?	?
86	86.a	90	glass	?	?	missing	?	P?	?	n.a.	n.a.	?	?	?	?
86	86.b	91	glass	?	?	missing	?	P?	?	n.a.	n.a.	?	?	?	?
90	90.a	92	amber	n.a.	n.a.	missing	F1?	P?	cut	n.a.	n.a.	amber	none	?	Baltic
90	90.b	93	glass	?	?	missing	?	P?	?	n.a.	n.a.	red opaque	?	?	?
90	90.c	94	glass	?	?	missing	?	P?	?	n.a.	n.a.	yellow opaque	?	?	?
90	90.d	95	glass	polychrome	?	missing	B?	P?	?	n.a.	n.a.	?	?	?	?
90	90.e	96	glass	polychrome	?	missing	B?	P?	?	n.a.	n.a.	?	?	?	?
90	90.f	97	glass	polychrome	?	missing	B?	P?	?	n.a.	n.a.	?	?	?	?
103	103.a	98	glass	monochrome	?	missing	?	P?	?	n.a.	n.a.	green	none	?	?
103	103b	99	amber	n.a.	n.a.	missing	F1?	P?	cut	n.a.	n.a.	amber	none	?	?
103	103.c	100	glass	polychrome	opaque	missing	B?	P?	wound	n.a.	n.a.	red opaque, white opaque	?	?	?
108	108.1	101	glass	?	?	missing	?	P?	?	n.a.	n.a.	?	?	?	?
108	108.1	102	glass	?	?	missing	?	P?	?	n.a.	n.a.	?	?	?	?
108	108.1	103	glass	?	?	missing	?	P?	?	n.a.	n.a.	?	?	?	?
110	110.c	104	glass	monochrome	opaque	missing	?	P?	?	n.a.	n.a.	yellow opaque	?	?	?
110	110.d	105	glass	monochrome	?	missing	?	P?	?	n.a.	n.a.	blue	?	?	?
110	110.e	106	glass	monochrome	opaque	missing	?	P?	?	n.a.	n.a.	white opaque	?	?	?
110	110.h	107	glass	monochrome	?	missing	?	P?	?	n.a.	n.a.	blue	?	?	?
115	115.c	108	glass	monochrome	?	missing	?	P?	?	n.a.	n.a.	blue-green	?	?	?
116	115.c	109	glass	monochrome	?	missing	?	P?	?	n.a.	n.a.	blue-green	?	?	?

Appendix 3.5 Bead determination Veldhoven-Oeienbosdijk

Grave 6

gravenr	findnr	subnr	Material	monochrome /polychrome	translucent /opaque	Condition	Vrielynck/ Mathis/ Pion Type	Phase	Technique	Size diameter (mm)	Size length (mm)	colour(s)	decoration	Shape	production region
6	u	1	glass	polychrome	opaque	complete	B6.1-?	P?	wound	n.a.	n.a.	green opaque, yellow opaque, red opaque, green (opaque?)	irregular dots	19	Europe
6	v	2	glass	monochrome	opaque	complete	B7.2-?/B1.3-09a	P?	wound	n.a.	n.a.	orange opaque	irregular lines	20	Europe
6	w	3	glass	polychrome	opaque	complete	B11.3-03b	P4	wound	n.a.	n.a.	red opaque, white opaque, yellow opaque	combed spiral, border	11	Europe

Grave 7

gravenr	findnr	subnr	Material	Monochrome /polychrome	Translucent /opaque	Condition	Vrielynck/ Mathis/ Pion Type	Phase	Technique	Size diameter (mm)	Size length (mm)	colour(s)	decoration	Shape	production region
7	a	1	glass	monochrome	opaque	broken	B1.1-06b	P0-P3	wound	n.a.	n.a.	blue translucent	none	18	Europe

Grave 10

gravenr	findnr	subnr	Material	Monochrome /polychrome	Translucent /opaque	Condition	Vrielynck/ Mathis/ Pion Type	Phase	Technique	Size diameter (mm)	Size length (mm)	colour(s)	decoration	Shape	production region
10	f	1	glass	monochrome	translucent	complete	B1.2-04b	P4	wound	n.a.	n.a.	dark-blue translucent	none	25	Europe
10	f	2	glass	monochrome	translucent	complete	B1.8-07	P5	wound	n.a.	n.a.	light-blue translucent	none	29	Europe
10	f	3	glass	monochrome	translucent	complete	B1.2-04c	P4	wound	n.a.	n.a.	dark-blue translucent	none	24	Europe
10	f	4	glass	monochrome	opaque	complete	B1.4-01b	P4	wound	n.a.	n.a.	yellow opaque	none	55	Europe
10	f	5	glass	monochrome	opaque	complete	B1.4-01b	P4	wound	n.a.	n.a.	yellow opaque	none	55	Europe
10	f	6	glass	monochrome	translucent	complete	B1.8-07	P5	wound	n.a.	n.a.	light-blue translucent	none	29	Europe
10	f	7	glass	monochrome	translucent	complete	B1.1-02b	P1-P5	wound	n.a.	n.a.	yellow opaque	none	18	Europe
10	f	8	amber	n.a.	n.a.	complete	F1.8-02	P1-P5	cut	n.a.	n.a.	amber	none	52	Baltic
10	f	9	glass	monochrome	opaque	complete	B1.6-01d	P2	wound	n.a.	n.a.	blue opaque	none	32	Europe
10	f	10	glass	monochrome	opaque	complete	B1.4-02b	P4	wound	n.a.	n.a.	red opaque	none	55	Europe
10	f	11	glass	monochrome	opaque	complete	B1.4-02a	P3	wound	n.a.	n.a.	red opaque	none	11	Europe
10	f	12	glass	monochrome	opaque	complete	B1.4-02a	P3	wound	n.a.	n.a.	red opaque	none	11	Europe
10	f	13	glass	monochrome	translucent	complete	B1.8-07	P5	wound	n.a.	n.a.	light-blue translucent	none	34	Europe
10	f	14	glass	monochrome	translucent	complete	B1.8-07	P5	wound	n.a.	n.a.	light-blue translucent	none	34	Europe
10	f	15	glass	monochrome	translucent	complete	B1.4-06b	P4	wound	n.a.	n.a.	light-blue translucent	none	55	Europe

10	f	16	glass	monochrome	opaque	complete	B1.4-02a	P3	wound	n.a.	n.a.	red opaque	none	11	Europe
10	f	17	glass	polychrome	opaque	complete	B3.2-02b	P3	wound	n.a.	n.a.	red opaque, yellow opaque	interlacing	18	Europe
10	f	18	glass	polychrome	opaque	complete	B3.2-02b	P3	wound	n.a.	n.a.	red opaque, yellow opaque	interlacing	18	Europe
10	f	19	glass	monochrome	opaque	complete	B1..4-01a	P3	wound	n.a.	n.a.	yellow opaque	none	11	Europe
10	f	20	glass	monochrome	opaque	complete	B1.8-02	P5	wound	n.a.	n.a.	yellow opaque	none	29	Europe
10	f	21	glass	monochrome	opaque	complete	B1.8-02	P5	wound	n.a.	n.a.	yellow opaque	none	34	Europe
10	f	22	glass	monochrome	opaque	complete	B1.8-02	P5	wound	n.a.	n.a.	yellow opaque	none	29	Europe
10	f	23	glass	monochrome	opaque	complete	B1.8-02	P5	wound	n.a.	n.a.	yellow opaque	none	29	Europe
10	f	24	glass	monochrome	opaque	complete	B1.8-02	P5	wound	n.a.	n.a.	yellow opaque	none	34	Europe
10	f	25	glass	monochrome	opaque	complete	B1.2-01b	P4	wound	n.a.	n.a.	yellow opaque	none	25	Europe
10	f	26	glass	monochrome	opaque	complete	B1.8-02	P5	wound	n.a.	n.a.	yellow opaque	none	29	Europe
10	g	27	amber	n.a.	n.a.	complete	F1.8-02	P1-P5	cut	n.a.	n.a.	amber	none	52	Baltic

Grave 11

gravenr	findnr	subnr	Material	Monochrome /polychrome	Translucent /opaque	Condition	Vrielynck/ Mathis/ Pion Type	Phase	Technique	Size diameter (mm)	Size length (mm)	colour(s)	decoration	Shape	production region
11	a	1	glass	monochrome	opaque	complete	B1.4-02a	P3	wound	n.a.	n.a.	red opaque	none	11	Europe

Grave 14

gravenr	findnr	subnr	Material	Monochrome /polychrome	Translucent /opaque	Condition	Vrielynck/ Mathis/ Pion Type	Phase	Technique	Size diameter (mm)	Size length (mm)	colour(s)	decoration	Shape	production region
14	h	1	glass	monochrome	translucent	complete	B1.2-05	P4	wound	n.a.	n.a.	blue-green translucent	none	30	Europe
14	h	2	glass	monochrome	translucent	complete	B1.2-06	P4	wound	n.a.	n.a.	blue-green translucent	none	25	Europe
14	h	3	glass	polychrome	opaque	complete	B5.2-01d	P2	wound	n.a.	n.a.	red opaque, white opaque		27	Europe
14	h	4	glass	monochrome	opaque	complete	B1.2-01b	P4	wound	n.a.	n.a.	yellow opaque	none	25	Europe
14	h	5	glass	monochrome	opaque	complete	B1.2-01b	P4	wound	n.a.	n.a.	yellow opaque	none	25	Europe
14	h	6	glass	monochrome	opaque	complete	B1.2-01b	P4	wound	n.a.	n.a.	yellow opaque	none	25	Europe
14	h	7	glass	monochrome	opaque	complete	B1.2-01a	P4	wound	n.a.	n.a.	yellow opaque	none	30	Europe

Grave 16

gravenr	findnr	subnr	Material	Monochrome /polychrome	Translucent /opaque	Condition	Vrielynck/ Mathis/ Pion Type	Phase	Technique	Size diameter (mm)	Size length (mm)	colour(s)	decoration	Shape	production region
16	d	1	glass	monochrome	opaque	complete	B1.11-01	P5	wound	n.a.	n.a.	white opaque	none	4	Europe

Grave 20

gravenr	findnr	subnr	Material	Monochrome /polychrome	Translucent /opaque	Condition	Vrielynck/ Mathis/ Pion Type	Phase	Technique	Size diameter (mm)	Size length (mm)	colour(s)	decoration	Shape	production region
20	a	1	glass	monochrome	opaque	complete	B1.3-05	P3	wound	n.a.	n.a.	blue opaque	none	20	Europe

Grave 25

gravenr	findnr	subnr	Material	Monochrome /polychrome	Translucent /opaque	Condition	Vrielynck/ Mathis/ Pion Type	Phase	Technique	Size diameter (mm)	Size length (mm)	colour(s)	decoration	Shape	production region
25	a	1	glass	polychrome	both	comlete	B5.?	P?	wound	n.a.	n.a.	blue opaque, red opaque	spiral	20	Europe?

Grave 27

gravenr	findnr	subnr	Material	Monochrome /polychrome	Translucent /opaque	Condition	Vrielynck/ Mathis/ Pion Type	Phase	Technique	Size diameter (mm)	Size length (mm)	colour(s)	decoration	Shape	production region
27	a	1	glass	monochrome	opaque	burned	B?	P?	wound	n.a.	n.a.	green opaque	none	18	Europe
27	b	2	glass	polychrome	both	burned	B?	P?	wound	n.a.	n.a.	blue translucent, red opaque	dot	?	Europe

Appendix 3.6 Bead Determination Veldhoven-Meerveldhoven

Grave 10

gravenr	findnr	subnr	Material	monochrome /polychrome	translucent /opaque	Condition	Vrielynck/ Mathis/ Pion Type	Phase	Technique	Size diameter (mm)	Size length (mm)	colour(s)	decoration	Shape	production region
10	11244.36	1	glass	monochrome	opaque	complete	B1.4-03a	P3?	wound	n.a.	n.a.	white opaque	none	11	Europe
10	11244.36	2	glass	monochrome	opaque	complete	B1.4-03a	P3?	wound	n.a.	n.a.	white opaque	none	11	Europe
10	11244.36	3	glass	monochrome	opaque	complete	B1.4-02a	P3?	wound	n.a.	n.a.	red opaque	none	11	Europe
10	11244.36	4	glass	monochrome	opaque	complete	B1.4-02a	P3?	wound	n.a.	n.a.	red opaque	none	11	Europe
10	11244.36	5	glass	monochrome	translucent	complete	B1.3-06	P5	wound	n.a.	n.a.	blue-green translucent	none	20	Europe
10	11244.36	6	glass	monochrome	translucent	complete	B1.3-06	P5	wound	n.a.	n.a.	blue-green translucent	none	20	Europe
10	11244.36	7	glass	monochrome	opaque	complete	B1.4-03a	P3?	wound	n.a.	n.a.	white opaque	none	11	Europe
10	11244.36	8	glass	monochrome	opaque	complete	B1.4-03a	P3?	wound	n.a.	n.a.	white opaque	none	11	Europe
10	11244.36	9	glass	monochrome	translucent	complete	B1.3-06	P5	wound	n.a.	n.a.	blue-green translucent	none	20	Europe
10	11244.36	10	glass	monochrome	opaque	complete	B1.4-02a	P3?	wound	n.a.	n.a.	red opaque	none	11	Europe
10	11244.36	11	glass	monochrome	opaque	complete	B1.4-02a	P3?	wound	n.a.	n.a.	red opaque	none	11	Europe
10	11244.36	12	glass	monochrome	opaque	complete	B1.4-03a	P3?	wound	n.a.	n.a.	white opaque	none	11	Europe
10	11244.36	13	glass	monochrome	opaque	complete	B1.4-03a	P3?	wound	n.a.	n.a.	white opaque	none	11	Europe
10	11244.36	14	glass	monochrome	translucent	complete	B1.3-06	P5	wound	n.a.	n.a.	blue-green translucent	none	20	Europe
10	11244.36	15	glass	monochrome	translucent	complete	B1.3-06	P5	wound	n.a.	n.a.	blue-green translucent	none	20	Europe
10	11244.36	16	glass	monochrome	opaque	complete	B1.4-02a	P3?	wound	n.a.	n.a.	red opaque	none	11	Europe
10	11244.36	17	glass	monochrome	opaque	complete	B1.4-02a	P3?	wound	n.a.	n.a.	red opaque	none	11	Europe
10	11244.36	18	glass	monochrome	translucent	complete	B1.3-06	P5	wound	n.a.	n.a.	blue-green translucent	none	20	Europe
10	11244.36	19	glass	monochrome	translucent	complete	B1.3-06	P5	wound	n.a.	n.a.	blue-green translucent	none	20	Europe
10	11244.36	20	glass	monochrome	opaque	complete	B1.8-02	P5	wound	n.a.	n.a.	yellow opaque	none	29	Europe
10	11244.36	21	glass	monochrome	opaque	complete	B1.3-01	P3?	wound	n.a.	n.a.	yellow opaque	none	20	Europe
10	11244.36	22	glass	monochrome	opaque	complete	B1.8-07	P5	wound	n.a.	n.a.	blue-green translucent	none	29	Europe
10	11244.36	23	glass	monochrome	translucent	complete	B1.4-04a	P3?	wound	n.a.	n.a.	blue-green translucent	none	11	Europe
10	11244.36	24	glass	monochrome	opaque	complete	B1.4-02a	P3?	wound	n.a.	n.a.	red opaque	none	11	Europe
10	11244.36	25	glass	monochrome	opaque	complete	B1.4-02a	P3?	wound	n.a.	n.a.	red opaque	none	11	Europe
10	11244.36	26	glass	monochrome	opaque	complete	B1.4-02a	P3?	wound	n.a.	n.a.	red opaque	none	11	Europe
10	11244.36	27	glass	monochrome	translucent	complete	B1.3-06	P5	wound	n.a.	n.a.	blue-green translucent	none	20	Europe
10	11244.36	28	glass	monochrome	translucent	complete	B1.3-06	P5	wound	n.a.	n.a.	blue-green translucent	none	20	Europe
10	11244.36	29	glass	monochrome	opaque	complete	B1.4-03a	P3?	wound	n.a.	n.a.	white opaque	none	11	Europe
10	11244.36	30	glass	monochrome	opaque	complete	B1.4-03a	P3?	wound	n.a.	n.a.	white opaque	none	11	Europe
10	11244.36	31	glass	monochrome	opaque	complete	B1.4-02a	P3?	wound	n.a.	n.a.	red opaque	none	11	Europe
10	11244.36	32	glass	monochrome	opaque	complete	B1.4-02a	P3?	wound	n.a.	n.a.	red opaque	none	11	Europe
10	11244.36	33	glass	monochrome	translucent	complete	B1.3-06	P5	wound	n.a.	n.a.	blue-green translucent	none	20	Europe
10	11244.36	34	glass	monochrome	translucent	complete	B1.3-06	P5	wound	n.a.	n.a.	blue-green translucent	none	20	Europe
10	11244.36	35	glass	monochrome	opaque	complete	B1.4-03a	P3?	wound	n.a.	n.a.	white opaque	none	11	Europe

10	11244.36	36	glass	monochrome	opaque	complete	B1.3-03	P3?	wound	n.a.	n.a.	white opaque	none	20	Europe
10	11244.36	37	glass	monochrome	translucent	complete	B1.3-06	P5	wound	n.a.	n.a.	blue-green translucent	none	20	Europe
10	11244.36	38	glass	monochrome	opaque	complete	B1.4-02a	P3?	wound	n.a.	n.a.	red opaque	none	11	Europe
10	11244.36	39	glass	monochrome	opaque	complete	B1.4-02a	P3?	wound	n.a.	n.a.	red opaque	none	11	Europe
10	11244.36	40	glass	monochrome	opaque	complete	B1.4-03a	P3?	wound	n.a.	n.a.	white opaque	none	11	Europe
10	11244.36	41	glass	monochrome	opaque	complete	B1.4-03a	P3?	wound	n.a.	n.a.	white opaque	none	11	Europe
10	11244.36	42	glass	monochrome	translucent	complete	B1.7-04	P5	wound	n.a.	n.a.	blue-green translucent	none	15	Europe
10	11244.36	43	glass	monochrome	opaque	complete	B1.4-03a	P3?	wound	n.a.	n.a.	white opaque	none	11	Europe
10	11244.36	44	glass	monochrome	opaque	complete	B1.4-03a	P3?	wound	n.a.	n.a.	white opaque	none	11	Europe
10	11244.36	45	glass	monochrome	translucent	complete	B1.3-06	P5	wound	n.a.	n.a.	blue-green translucent	none	20	Europe
10	11244.36	46	glass	monochrome	opaque	complete	B1.3-09d	P5	wound	n.a.	n.a.	green opaque	none	19	Europe
10	11244.36	47	glass	monochrome	translucent	complete	B1.3-06	P5	wound	n.a.	n.a.	blue-green translucent	none	20	Europe
10	11244.36	48	glass	monochrome	translucent	complete	B1.3-06	P5	wound	n.a.	n.a.	blue-green translucent	none	20	Europe
10	11244.36	49	glass	monochrome	opaque	complete	B1.4-02a	P3?	wound	n.a.	n.a.	red opaque	none	11	Europe
10	11244.36	50	glass	monochrome	opaque	complete	B1.4-02a	P3?	wound	n.a.	n.a.	red opaque	none	11	Europe
10	11244.36	51	glass	polychrome	opaque	complete	B6.1-01?	P?	wound	n.a.	n.a.	blue-green translucent, red opaque, yellow opaque, green opaque, white opaque	irregular dots	20	Europe
10	11244.36	52	glass	monochrome	opaque	complete	B1.3-09d	P5	wound	n.a.	n.a.	green opaque	none	20	Europe
10	11244.36	53	glass	monochrome	opaque	complete	B1.3-01	P3?	wound	n.a.	n.a.	yellow opaque	none	20	Europe
10	11244.36	54	glass	monochrome	opaque	complete	B1.3-09d	P5	wound	n.a.	n.a.	green opaque	none	20	Europe
10	11244.36	55	glass	monochrome	opaque	complete	B1.3-01	P3?	wound	n.a.	n.a.	yellow opaque	none	20	Europe
10	11244.36	56	glass	polychrome	opaque	complete	B6.1-01?	P?	wound	n.a.	n.a.	blue-green translucent, red opaque, yellow opaque, green opaque, white opaque	irregular dots	20	Europe
10	11244.36	57	glass	monochrome	opaque	complete	b1.3-09b	P5	wound	n.a.	n.a.	red opaque	none	20	Europe
10	11244.36	58	glass	polychrome	opaque	complete	B6.1-01?	P?	wound	n.a.	n.a.	blue-green translucent, red opaque, yellow opaque, green opaque, white opaque	irregular dots	20	Europe
10	11244.36	59	glass	monochrome	opaque	complete	B1.3-01	P3?	wound	n.a.	n.a.	yellow opaque	none	20	Europe
10	11244.36	60	glass	monochrome	opaque	complete	B1.3-09d	P5	wound	n.a.	n.a.	green opaque	none	20	Europe
10	11244.36	61	glass	monochrome	opaque	complete	B1.3-01	P3?	wound	n.a.	n.a.	yellow opaque	none	20	Europe
10	11244.36	62	glass	monochrome	opaque	complete	B1.3-09d	P5	wound	n.a.	n.a.	green opaque	none	20	Europe
10	11244.36	63	glass	polychrome	opaque	complete	B6.1-01?	P?	wound	n.a.	n.a.	blue-green translucent, red opaque, yellow opaque, green opaque, white opaque	irregular dots	20	Europe
10	11244.36	64	glass	monochrome	opaque	complete	B1.4-02a	P3?	wound	n.a.	n.a.	red opaque	none	11	Europe
10	11244.36	65	glass	monochrome	opaque	complete	B1.4-02a	P3?	wound	n.a.	n.a.	red opaque	none	11	Europe
10	11244.36	66	glass	monochrome	opaque	complete	B1.4-03a	P3?	wound	n.a.	n.a.	white opaque	none	11	Europe
10	11244.36	67	glass	monochrome	opaque	complete	B1.4-03a	P3?	wound	n.a.	n.a.	white opaque	none	11	Europe
10	11244.36	68	glass	monochrome	translucent	complete	B1.3-06	P5	wound	n.a.	n.a.	blue-green translucent	none	20	Europe
10	11244.36	69	glass	polychrome	opaque	weathered	B6.2-01b	P5	wound	n.a.	n.a.	red opaque, yellow opaque	regular dots	42	Europe

Grave 18

gravenr	findnr	subnr	Material	monochrome /polychrome	translucent /opaque	Condition	Vrielynck/ Mathis/ Pion Type	Phase	Technique	Size diameter (mm)	Size length (mm)	colour(s)	decoration	Shape	production region
18	11244.18	1	glass	monochrome	opaque	complete	B1.8-03	P5	wound	4,5	6,9	red opaque	none	29	Europe
18	11244.18	2	glass	monochrome	opaque	complete	B1.8-02	P5	wound	5,1	6,9	yellow opaque	none	29	Europe
18	11244.18	3	glass	monochrome	opaque	broken	B1.2-01c	P4	wound	4,4	6,2	yellow opaque	none	24	Europe
18	11244.18	4	glass	monochrome	opaque	complete	B1.2-01b	P4	wound	4,2	4,5	yellow opaque	none	25	Europe
18	11244.18	5	glass	monochrome	opaque	complete	B1.2-01a	P4	wound	4,2	3,4	yellow opaque	none	30	Europe
18	11244.18	6	glass	monochrome	opaque	complete	B1.8-02	P5	wound	4,6	3,4	yellow opaque	none	34	Europe
18	11244.18	7	glass	monochrome	opaque	complete	B1.2-01a	P4	wound	3,9	3,2	yellow opaque	none	30	Europe
18	11244.18	8	glass	monochrome	opaque	complete	B1.2-01a	P4	wound	4,5	4,1	yellow opaque	none	30	Europe
18	11244.18	9	glass	monochrome	opaque	complete	B1.2-01b	P4	wound	4,2	6	yellow opaque	none	25	Europe
18	11244.18	10	glass	monochrome	opaque	broken	B1.8-05	P5	wound	5,1	2,8	white opaque	none	34	Europe
18	11244.18	11	glass	monochrome	opaque	complete	B1.2-01b	P4	wound	5,4	3,7	yellow opaque	none	25	Europe
18	11244.18	12	glass	monochrome	opaque	broken	B1.2-01b	P4	wound	4	4,9	yellow opaque	none	25	Europe
18	11244.18	13	glass	monochrome	opaque	complete	B1.8-02	P5	wound	4,4	6,6	yellow opaque	none	29	Europe
18	11244.18	14	glass	monochrome	opaque	complete	B1.2-01b	P4	wound	3,8	6,2	yellow opaque	none	25	Europe
18	11244.18	15	glass	monochrome	opaque	complete	B1.2-01a	P4	wound	4,2	3,4	yellow opaque	none	30	Europe
18	11244.18	16	glass	monochrome	opaque	broken	B1.2-01b	P4	wound	4,2	4,9	yellow opaque	none	25	Europe
18	11244.18	17	glass	monochrome	opaque	complete	B1.2-01b	P4	wound	4,6	5,7	yellow opaque	none	25	Europe
18	11244.18	18	glass	monochrome	opaque	complete	B1.2-01a	P4	wound	4,2	4,1	yellow opaque	none	30	Europe
18	11244.18	19	glass	monochrome	opaque	complete	B1.2-01a	P4	wound	4,1	2,1	yellow opaque	none	30	Europe
18	11244.18	20	glass	monochrome	opaque	broken	B1.8-05	P5	wound	5,4	10,9	white opaque	none	29	Europe
18	11244.18	21	glass	monochrome	opaque	complete	B1.8-02	P5	wound	5,5	4,4	yellow opaque	none	34	Europe
18	11244.18	22	glass	monochrome	opaque	complete	B1.8-02	P5	wound	4,6	7,6	yellow opaque	none	29	Europe
18	11244.18	23	glass	monochrome	opaque	complete	B1.3-09a	P4	wound	9	9,2	orange opaque	none	20	Europe
18	11244.18	24	glass	monochrome	opaque	complete	B1.7-03	P5	wound	7,7	14,5	green opaque	none	15	Europe
18	11244.18	25	glass	monochrome	opaque	complete	B1.8-02	P5	wound	5	17,3	yellow opaque	none	29	Europe
18	11244.18	26	glass	monochrome	translucent	complete	B1.8-07	P5	wound	5,1	3,7	blue-green translucent	none	34	Europe
18	11244.18	27	glass	monochrome	opaque	complete	B1.8-02	P5	wound	5,2	10,3	yellow opaque	none	29	Europe
18	11244.18	28	glass	monochrome	opaque	broken	B1.8-05	P5	wound	5	7,6	white opaque	none	29	Europe
18	11244.18	29	glass	polychrome	opaque	complete	B6.2-01a	P5	wound	6,5	7,1	red opaque, yellow opaque	regular dots	18	Europe
18	11244.18	30	glass	monochrome	translucent	complete	B1.8-07	P5	wound	5,2	12,9	blue-green translucent	none	29	Europe
18	11244.18	31	amber	n.a.	n.a.	complete	F1.8-04	P1-P5	cut	18,8	23,9	amber	none	44	Baltic
18	11244.18	32	glass	monochrome	translucent	complete	B1.8-07	P5	wound	5,1	11,4	blue-green translucent	none	29	Europe
18	11244.18	33	glass	polychrome	opaque	complete	B6.2-01a	P5	wound	6,2	4,7	red opaque, yellow opaque	regular dots	18	Europe
18	11244.18	34	glass	monochrome	opaque	complete	B1.6-02b	P4	wound	7	7	white opaque	none	40	Europe
18	11244.18	35	glass	monochrome	opaque	complete	B1.8-02	P5	wound	5,2	10,9	yellow opaque	none	29	Europe
18	11244.18	36	glass	monochrome	translucent	complete	B1.2-05	P4	wound	5,3	6,5	blue-green translucent	none	25	Europe

18	11244.18	37	glass	monochrome	opaque	complete	B1.8-02	P5	wound	5,2	10,3	yellow opaque	none	29	Europe
18	11244.18	38	glass	monochrome	translucent	complete	B1.3-06	P5	wound	9,4	10,1	blue-green translucent	none	20	Europe

Grave 19

gravenr	findnr	subnr	Material	monochrome /polychrome	translucent /opaque	Condition	Vrielynck/ Mathis/ Pion Type	Phase	Technique	Size diameter (mm)	Size length (mm)	colour(s)	decoration	Shape	production region
19	11244.19	1	glass	monochrome	opaque	broken	B1.8-03	P5	wound	5,4	3,6	red opaque	none	34	Europe
19	11244.19	2	glass	monochrome	translucent	broken	B1.2-06	P4	wound	4,5	5,8	green-blue translucent	none	30	Europe
19	11244.19	3	glass	monochrome	translucent	broken	B1.8-07	P5	wound	4,3	12,8	blue-green translucent	none	29	Europe
19	11244.19	4	glass	polychrome	opaque	weathered	B7.1-01b?	P2?	wound	6,2	7,5	red opaque, yellow opaque	regular line	19	Europe
19	11244.19	5	amber	n.a.	n.a.	weathered	F1.8-04	P1-P5	cut	13,6	14,5	amber	none	52	Baltic
19	11244.19	6	glass	monochrome	opaque	broken	B1.7-03a	P5	wound	8,2	11,2	green opaque	none	50	Europe
19	11244.19	7	glass	monochrome	opaque	complete	B1.7-?	P5?	wound	7,2	13	red opaque	none	50	Europe
19	11244.19	8	glass	monochrome	translucent	complete	B1.2-04c	P4	wound	5	8,4	blue translucent	none	24	Europe
19	11244.19	9	glass	monochrome	opaque	complete	B1.8-03	P5	wound	6,2	6,4	red opaque	none	34	Europe
19	11244.19	10	glass	monochrome	opaque	complete	B1.7-02	P5	wound	7,5	12,1	white opaque	none	50	Europe
19	11244.19	11	amber	n.a.	n.a.	complete	F1.8-04	P1-P5	cut	11,7	19,7	amber	none	15	Baltic
19	11244.19	12	glass	monochrome	opaque	complete	B1.7-02	P5	wound	8,9	13,1	white opaque	none	50	Europe
19	11244.19	13	glass	monochrome	translucent	broken	B1.8-07	P5	wound	5,5	9,5	blue-green translucent	none	29	Europe
19	11244.19	14	glass	polychrome	both	complete	B7.1?	P?	wound	5,8	6,9	green-blue translucent	regular line	18	Europe
19	11244.19	15	glass	monochrome	translucent	broken	B1.8-07	P5	wound	4,5	4,1	green-blue translucent	none	24	Europe
19	11244.19	16	glass	monochrome	opaque	complete	B1.7-03a	P5	wound	8,5	12	green opaque	none	50	Europe
19	11244.19	17	amber	n.a.	n.a.	complete	F1.8-04	P1-P5	cut	12,4	16,1	amber	none	40	Baltic
19	11244.19	18	glass	monochrome	opaque	complete	B1.7-03a	P5	wound	8,5	12,3	green opaque	none	50	Europe
19	11244.19	19	glass	monochrome	opaque	broken	B1.8-05	P5	wound	5,4	3,9	white opaque	none	34	Europe
19	11244.19	20	glass	monochrome	translucent	broken	B1.2-05	P4	wound	6,2	7,7	green-blue translucent	none	25	Europe
19	11244.19	21	glass	monochrome	opaque	complete	B1.1-02b	P1-P5	wound	5,9	3,5	yellow opaque	none	18	Europe
19	11244.19	22	glass	monochrome	opaque	complete	B1.7-?	P5?	wound	8,1	15,5	red opaque	none	50	Europe
19	11244.19	23	glass	polychrome	both	complete	B7.1?	P?	wound	7,8	10,6	green-blue translucent, yellow opaque	regular line	25	Europe
19	11244.19	24	glass	monochrome	translucent	broken	B1.2-04a	P4	wound	5,4	3,9	green-blue translucent	none	30	Europe
19	11244.19	25	glass	monochrome	translucent	broken	B1.8-07	P5	wound	5,6	10,8	green-blue translucent	none	29	Europe
19	11244.19	26	glass	monochrome	opaque	complete	B1.2-03c	P4	wound	6,3	11	white opaque	none	24	Europe
19	11244.19	27	amber	n.a.	n.a.	complete	F1.8-04	P1-P5	cut	12,7	18,7	amber	none	44	Europe
19	11244.19	28	glass	monochrome	opaque	complete	B1.8-05	P5	wound	7	12,5	white opaque	none	29	Europe
19	11244.19	29	glass	monochrome	translucent	complete	B1.7-04	P5	wound	8,8	12,5	green-blue translucent	none	50	Europe
19	11244.19	30	glass	monochrome	opaque	complete	B1.3-01	P3	wound	6,1	6,7	yellow opaque	none	19	Europe

19	11244.19	31	amber	n.a.	n.a.	complete	F1.8-04	P1-P5	cut	13,9	21,6	amber	none	45	Baltic
19	11244.19	32	glass	polychrome	opaque	weathered	B6.2-01a	P5	wound	6,6	5,3	red opaque, yellow opaque	regular dots	18	Europe
19	11244.19	33	glass	monochrome	opaque	broken	B1.2-02a	P4	wound	5,3	4,5	dark-red opaque	none	18	Europe
19	11244.19	34	glass	monochrome	opaque	complete	B1.2-03b	P4	wound	5,5	6,7	white opaque	none	25	Europe
19	11244.19	35	glass	monochrome	translucent	broken	B1.8-07	P5	wound	6,7	7,6	blue-green translucent	none	29	Europe
19	11244.19	36	glass	monochrome	opaque	complete	B1.7-?	P5?	wound	8,4	11,6	red opaque	none	50	Europe
19	11244.19	37	glass	polychrome	both	complete	B7.1?	P?	wound	7,7	6	green-blue translucent, yellow opaque	regular line	18	Europe
19	11244.19	38	glass	monochrome	translucent	broken	B1.8-07	P5	wound	5,8	9,3	blue-green translucent	none	29	Europe
19	11244.19	39	glass	monochrome	opaque	complete	B1.2-01b	P4	wound	5	5,3	yellow opaque	none	25	Europe
19	11244.19	40	amber	n.a.	n.a.	complete	F1.8-04	P1-P5	cut	16	19,4	amber	none	15	Baltic
19	11244.19	41	glass	monochrome	opaque	complete	B1.2-01b	P4	wound	4,7	4,8	yellow opaque	none	25	Europe
19	11244.19	42	glass	monochrome	translucent	complete	B1.8-07	P5	wound	6,1	12,9	blue-green translucent	none	29	Europe
19	11244.19	43	glass	monochrome	opaque	complete	B1.2-01b	P4	wound	5	8,2	yellow opaque	none	25	Europe
19	11244.19	44	glass	monochrome	opaque	broken	B1.7-03a	P5	wound	8,4	10,9	green opaque	none	50	Europe
19	11244.19	45	glass	monochrome	opaque	complete	B1.7-?	P5?	wound	8,4	11,6	red opaque	none	50	Europe
19	11244.19	46	glass	monochrome	translucent	complete	B1.2-05	P4	wound	5,3	7,4	blue-green translucent	none	25	Europe
19	11244.19	47	glass	monochrome	opaque	broken	B1.7-02	P5	wound	7,6	13,1	white opaque	none	50	Europe
19	11244.19	48	amber	n.a.	n.a.	complete	F1.8-04	P1-P5	cut	15,1	23,6	amber	none	50	Baltic
19	11244.19	49	glass	monochrome	opaque	broken	B1.7-02	P5	wound	7,2	14,6	white opaque	none	50	Europe
19	11244.19	50	glass	monochrome	opaque	complete	B1.2-01b	P4	wound	5	5,3	yellow opaque	none	25	Europe
19	11244.19	51	glass	monochrome	translucent	complete	B1.8-07	P5	wound	5,4	14,1	blue-green translucent	none	29	Europe
19	11244.19	52	glass	monochrome	opaque	complete	B1.7-?	P5?	wound	7,5	11,5	red opaque	none	50	Europe
19	11244.19	53	glass	monochrome	translucent	complete	B1.3-06	P5	wound	10,6	8,6	blue-green translucent	none	20	Europe
19	11244.19	54	glass	monochrome	opaque	broken	B1.7-02	P5	wound	7,7	14,3	white opaque	none	50	Europe
19	11244.19	55	amber	n.a.	n.a.	complete	F1.8-04	P1-P5	cut	17,3	25,8	amber	none	50	Europe
19	11244.19	56	glass	monochrome	opaque	broken	B1.7-02	P5	wound	7,7	11	white opaque	none	50	Europe
19	11244.19	57	glass	monochrome	opaque	complete	B1.3-02	P3	wound	10,4	8,6	red opaque	none	20	Europe
19	11244.19	58	glass	monochrome	opaque	broken	B1.7-03a	P5	wound	6,7	12,4	green opaque	none	50	Europe
19	11244.19	59	glass	monochrome	opaque	complete	B1.8-05	P5	wound	6,1	10,4	white opaque	none	29	Europe
19	11244.19	60	glass	monochrome	opaque	complete	B1.8-03	P5	wound	5,9	8,6	red opaque	none	29	Europe
19	11244.19	61	glass	monochrome	opaque	broken	B1.7-02	P5	wound	8,1	12,2	white opaque	none	50	Europe
19	11244.19	62	amber	n.a.	n.a.	complete	F1.8-04	P1-P5	cut	13,7	27,5	amber	none	50	Europe
19	11244.19	63	glass	monochrome	opaque	complete	B1.7-02	P5	wound	6,4	12	white opaque	none	50	Europe
19	11244.19	64	glass	monochrome	translucent	complete	B1.8-07	P5	wound	4,9	9,9	blue-green translucent	none	29	Europe
19	11244.19	65	glass	monochrome	opaque	broken	B1.7-03a	P5	wound	8,3	11,6	green opaque	none	50	Europe
19	11244.19	66	glass	monochrome	opaque	complete	B1.7-?	P5?	wound	9	13,9	red opaque	none	50	Europe
19	11244.19	67	glass	monochrome	translucent	complete	B1.8-07	P5	wound	6,3	9	blue-green translucent	none	29	Europe
19	11244.19	68	glass	polychrome	opaque	complete	B7.1-01a	P?	wound	7,2	6,4	red opaque, yellow opaque	regular line	18	Europe

19	11244.19	69	amber	n.a.	n.a.	complete	F1.8-04	P1-P5	cut	16,9	19	amber	none	52	Baltic
19	11244.19	70	glass	polychrome	both	complete	B7.1?	P?	wound	7,4	6,2	blue-green translucent, yellow opaque	regular line	18	Europe
19	11244.19	71	glass	monochrome	translucent	complete	B1.7-04	P5	wound	7,1	12,9	green-blue translucent	none	50	Europe
19	11244.19	72	glass	polychrome	opaque	complete	B6.2-01a	P5	wound	7	7,7	red opaque, yellow opaque	regular dots	18	Europe
19	11244.19	73	glass	monochrome	translucent	complete	B1.7-04	P5	wound	8,3	12,4	green-blue translucent	none	50	Europe
19	11244.19	74	glass	monochrome	opaque	complete	B1.8-02	P5	wound	6,2	13,2	yellow opaque	none	29	Europe
19	11244.19	75	amber	n.a.	n.a.	complete	F1.8-04	P1-P5	cut	16,4	19	amber	none	45	Baltic
19	11244.19	76	glass	monochrome	opaque	complete	B1.8-02	P5	wound	6,1	8,2	yellow opaque	none	29	Europe
19	11244.19	77	glass	monochrome	opaque	broken	B1.7-03	P5	wound	6,6	14,4	green opaque	none	50	Europe
19	11244.19	78	glass	monochrome	translucent	complete	B1.8-07	P5	wound	4,6	10,9	blue-green translucent	none	29	Europe
19	11244.19	79	glass	monochrome	opaque	complete	B1.3-02	P3?	wound	6,4	13	red opaque	none	20	Europe
19	11244.19	80	glass	monochrome	opaque	complete	B1.7-02	P5	wound	8,3	14	white opaque	none	50	Europe
19	11244.19	81	amber	n.a.	n.a.	broken	F1.8-04	P1-P5	cut	11,8	19,3	amber	none	50	Baltic
19	11244.19	82	glass	monochrome	opaque	complete	B1.7-02	P5	wound	6,6	13,4	white opaque	none	50	Europe
19	11244.19	83	glass	monochrome	opaque	broken	B1.8-03	P5	wound	5,4	3,6	red opaque	none	34	Europe
19	11244.19	84	amber	n.a.	n.a.	complete	B1.7-?	P5?	wound	6,7	12,2	red opaque	none	50	Europe
19	11244.19	85	glass	polychrome	both	complete	B7.1?	P?	wound	7	12,6	blue-green translucent, yellow opaque	regular line	25	Europe
19	11244.19	86	glass	monochrome	opaque	complete	B1.7-?	P5?	wound	8,9	12,9	red opaque	none	50	Europe
19	11244.19	87	glass	monochrome	translucent	complete	B1.2-05	P4	wound	7	9,5	green-blue translucent	none	25	Europe
19	11244.19	88	amber	n.a.	n.a.	complete	F1.8-04	P1-P5	cut	12,8	19,4	amber	none	45	Baltic
19	11244.19	89	glass	polychrome	opaque	weathered	B6.2-01a	P5	wound	6,2	8,1	red opaque, yellow opaque	regular dots	11	Europe
19	11244.19	90	glass	monochrome	opaque	complete	B1.2-01c	P4	wound	6	11,9	yellow opaque	none	24	Europe
19	11244.19	91	glass	monochrome	translucent	broken	B1.8-07	P5	wound	5,2	3,9	blue-green translucent	none	34	Europe
19	11244.19	92	glass	monochrome	opaque	complete	B1.7-?	P5?	wound	9,3	14,7	red opaque	none	50	Europe
19	11244.19	93	glass	monochrome	translucent	broken	B1.8-07	P5	wound	6,2	5,6	blue-green translucent	none	34	Europe
19	11244.19	94	glass	monochrome	opaque	weathered	B1.7-03	P5	wound	8,5	12,1	green opaque	none	50	Europe
19	11244.19	95	glass	monochrome	opaque	complete	B1.8-03	P5	wound	6	10	red opaque	none	29	Europe
19	11244.19	96	glass	monochrome	opaque	complete	B1.1-02b	P1-P5	wound	4,8	2,7	yellow opaque		18	Europe
19	11244.19	97	amber	n.a.	n.a.	complete	F1.8-04	P1-P5	cut	10,6	17,5	amber	none	30	Baltic
19	11244.19	98	glass	monochrome	opaque	complete	B1.3-03	P3	wound	10,5	7,4	white opaque	none	20	Europe
19	11244.19	99	glass	monochrome	opaque	complete	B1.8-05	P5	wound	6,1	8,9	white opaque	none	29	Europe
19	11244.19	100	glass	monochrome	translucent	broken	B1.8-07	P5	wound	5	3,2	blue-green translucent	none	34	Europe
19	11244.19	101	glass	monochrome	opaque	complete	B1.7-03a	P5	wound	8,7	13,3	green opaque	none	50	Europe
19	11244.19	102	glass	monochrome	opaque	complete	B1.2-02a	P4	wound	5	3,4	red opaque	none	30	Europe
19	11244.19	103	glass	polychrome	both	complete	B7.1?	P?	wound	7,1	6,1	blue-green translucent, yellow opaque	regular line	18	Europe
19	11244.19	104	glass	monochrome	opaque	broken	B1.7-03a	P5	wound	8,1	10,8	green opaque	none	50	Europe

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gravenr	findnr	subnr	Material	monochrome /polychrome	translucent /opaque	Condition	Vrielynck/ Mathis/ Pion Type	Phase	Technique	Size diameter (mm)	Size length (mm)	colour(s)	decoration	Shape	production region
28	11244.06	1	glass	monochrome	opaque	complete	B1.3-09a	P4	wound	9,7	9	orange opaque	none	20	Europe
28	11244.06	2	glass	monochrome	translucent	complete	B1.8-07	P5	wound	5,4	22,5	blue-green translucent	none	29	Europe
28	11244.06	3	glass	monochrome	opaque	complete	B1.2-01c	P4	wound	4,7	6,4	yellow opaque	none	24	Europe
28	11244.06	4	glass	monochrome	opaque	complete	B1.8-02	P5	wound	5,5	4,6	yellow opaque	none	34	Europe
28	11244.06	5	glass	polychrome	opaque	weathered	B6.2-01b	P5	wound	7,3	16	red opaque, yellow opaque	regular dots	42	Europe
28	11244.06	6	glass	monochrome	opaque	complete	B1.2-01c	P4	wound	5,1	12	yellow opaque	none	24	Europe
28	11244.06	7	glass	monochrome	opaque	complete	B1.7-03	P5	wound	7,7	15,7	green opaque	none	15	Europe
28	11244.06	8	glass	monochrome	translucent	complete	B1.2-05	P5	wound	5,1	5,3	blue-green translucent	none	25	Europe
28	11244.06	9	glass	polychrome	opaque	weathered	B6.2-01b	P5	wound	7,9	18,1	red opaque, yellow opaque	regular dots	42	Europe
28	11244.06	10	glass	monochrome	opaque	complete	B1.2-01b	P4	wound	4,8	5,4	yellow opaque	none	25	Europe
28	11244.06	11	glass	monochrome	opaque	complete	B1.7-03	P5	wound	7,6	18,1	green opaque	none	15	Europe
28	11244.06	12	glass	monochrome	opaque	complete	B1.7-?	P5?	wound	8	13,2	red opaque	none	15	Europe
28	11244.06	13	glass	monochrome	opaque	complete	B1.2-01b	P4	wound	4,8	6,2	yellow opaque	none	25	Europe
28	11244.06	14	glass	monochrome	opaque	complete	B1.2-01b	P4	wound	5,3	6,4	yellow opaque	none	25	Europe
28	11244.06	15	glass	polychrome	opaque	weathered	B6.2-01b	P5	wound	7,3	14,7	red opaque, yellow opaque	regular dots	42	Europe
28	11244.06	16	glass	monochrome	opaque	complete	B1.2-01a	P4	wound	5,1	3,1	yellow opaque	none	30	Europe
28	11244.06	17	glass	monochrome	opaque	complete	B1.7-04	P5	wound	7,8	20,4	blue-green translucent	none	15	Europe
28	11244.06	18	glass	monochrome	opaque	complete	B1.2-01b	P4	wound	4,6	4,7	yellow opaque	none	25	Europe
28	11244.06	19	glass	monochrome	opaque	broken	B1.7-03	P5	wound	8,7	11,6	green opaque	none	15	Europe
28	11244.06	20	glass	monochrome	opaque	complete	B1.2-01b	P4	wound	4,8	4,9	yellow opaque	none	25	Europe
28	11244.06	21	glass	monochrome	opaque	complete	B1.7-04	P5	wound	8	17,8	blue-green translucent	none	15	Europe
28	11244.06	22	glass	monochrome	opaque	complete	B1.2-01b	P4	wound	4,8	5,1	yellow opaque	none	25	Europe
28	11244.06	23	glass	monochrome	translucent	complete	B1.2-05	P5	wound	4,9	4,2	blue-green translucent	none	30	Europe
28	11244.06	24	glass	monochrome	translucent	complete	B1.2-05	P5	wound	5,4	6,2	blue-green translucent	none	25	Europe
28	11244.06	25	glass	monochrome	translucent	complete	B1.2-05	P5	wound	4,9	4,9	blue-green translucent	none	25	Europe
28	11244.06	26	glass	monochrome	translucent	complete	B1.8-07	P5	wound	5,8	9,8	blue-green translucent	none	29	Europe
28	11244.06	27	glass	monochrome	translucent	complete	B1.8-07	P5	wound	5,8	11,8	blue-green translucent	none	29	Europe
28	11244.06	28	glass	monochrome	opaque	complete	B1.7-04	P5	wound	7,1	16,4	blue-green translucent	none	15	Europe
28	11244.06	29	glass	monochrome	opaque	complete	B1.2-01a	P4	wound	4,8	2,9	yellow opaque	none	30	Europe
28	11244.06	30	glass	polychrome	opaque	weathered	B6.2-01b	P5	wound	6,6	15,2	red opaque, yellow opaque	regular dots	42	Europe
28	11244.06	31	glass	monochrome	opaque	complete	B1.2-01a	P4	wound	4,4	2,9	yellow opaque	none	30	Europe
28	11244.06	32	glass	monochrome	opaque	complete	B1.7-04	P5	wound	8,6	16,1	blue-green translucent	none	15	Europe
28	11244.06	33	glass	monochrome	opaque	weathered	B1.2-01c	P4	wound	4,3	5,3	yellow opaque	none	24	Europe
28	11244.06	34	glass	monochrome	opaque	broken	B1.2-01c	P4	wound	5,5	7,9	yellow opaque	none	24	Europe
28	11244.06	35	glass	polychrome	opaque	weathered	B6.2-01b	P5	wound	8,5	19,5	red opaque, yellow opaque	regular dots	42	Europe
28	11244.06	36	glass	monochrome	opaque	broken	B1.2-01b	P4	wound	4,8	5,3	yellow opaque	none	25	Europe

28	11244.06	37	glass	monochrome	opaque	complete	B1.2-01a	P4	wound	4,5	3,4	yellow opaque	none	30	Europe
28	11244.06	38	glass	polychrome	opaque	weathered	B6.2-01b	P5	wound	7,1	15,6	red opaque, yellow opaque	regular dots	42	Europe
28	11244.06	39	glass	monochrome	opaque	complete	B1.7-04	P5	wound	8,3	16,4	blue-green translucent	none	15	Europe
28	11244.06	40	glass	monochrome	opaque	complete	B1.2-01c	P4	wound	4,9	10,3	yellow opaque	none	24	Europe
28	11244.06	41	glass	monochrome	opaque	complete	B1.7-03	P5	wound	8,4	21,7	green opaque	none	15	Europe
28	11244.06	42	glass	monochrome	opaque	complete	B1.2-01c	P4	wound	5,5	8,3	yellow opaque	none	24	Europe
28	11244.06	43	glass	monochrome	opaque	complete	B1.7-04	P5	wound	8,3	23,7	blue-green translucent	none	15	Europe
28	11244.06	44	glass	monochrome	opaque	complete	B1.2-01c	P4	wound	4,8	7	yellow opaque	none	24	Europe
28	11244.06	45	glass	monochrome	translucent	complete	B1.8-07	P5	wound	5,4	22	blue-green translucent	none	29	Europe

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gravenr	findnr	subnr	Material	Monochrome /polychrome	Translucent /opaque	Condition	Vrielynck/ Mathis/ Pion Type	Phase	Technique	Size diameter (mm)	Size length (mm)	colour(s)	decoration	Shape	production region
46	11244.07	1	amber	n.a.	n.a.	complete	F1.8-04	P1-P5	cut	13,6	16,8	amber	none	52	Baltic
46	11244.07	2	glass	monochrome	translucent	complete	B1.8-07	P5	wound	5,6	11,2	blue-green translucent	none	29	Europe
46	11244.07	3	glass	monochrome	translucent	complete	B1.8-07	P5	wound	5	9,9	blue-green translucent	none	29	Europe
46	11244.07	4	glass	monochrome	opaque	complete	B1.6-01b?	P2?	wound	6,2	6,5	red opaque	none	47	Europe
46	11244.07	5	glass	monochrome	opaque	complete	B1.1-02a	P2-P5	wound	4,9	2,9	yellow opaque	none	30	Europe
46	11244.07	6	glass	monochrome	opaque	weathered	B1.1-02a	P2-P5	wound	4,8	2,7	yellow opaque	none	30	Europe
46	11244.07	7	glass	monochrome	opaque	complete	B1.7-?	P5	wound	8,1	17,8	red opaque	none	15	Europe
46	11244.07	8	glass	monochrome	translucent	complete	B1.8-07	P5	wound	5,5	9,8	blue-green translucent	none	29	Europe
46	11244.07	9	glass	monochrome	opaque	complete	B1.2-01b	P4	wound	5,1	7,3	yellow opaque	none	25	Europe
46	11244.07	10	glass	monochrome	opaque	complete	B1.7-04	P5	wound	8,9	16,7	blue-green translucent	none	15	Europe
46	11244.07	11	glass	monochrome	opaque	complete	B1.1-02a	P2-P5	wound	4,9	3,4	yellow opaque	none	30	Europe
46	11244.07	12	glass	monochrome	opaque	complete	B1.1-02a	P2-P5	wound	5,4	2,7	yellow opaque	none	30	Europe
46	11244.07	13	glass	monochrome	opaque	complete	B1.2-01b	P4	wound	5	5,8	yellow opaque	none	25	Europe
46	11244.07	14	glass	monochrome	opaque	complete	B1.1-02b	P1-P5	wound	5,8	4,3	yellow opaque	none	18	Europe
46	11244.07	15	glass	monochrome	opaque	complete	B1.1-02a	P2-P5	wound	4,7	2,9	yellow opaque	none	30	Europe
46	11244.07	16	glass	monochrome	opaque	complete	B1.2-01b	P4	wound	4,9	5,5	yellow opaque	none	25	Europe
46	11244.07	17	glass	monochrome	opaque	complete	B1.2-01c	P4	wound	5,8	9,8	yellow opaque	none	24	Europe
46	11244.07	18	glass	monochrome	opaque	complete	B1.2-01c	P4	wound	5,2	8,9	yellow opaque	none	24	Europe
46	11244.07	19	glass	monochrome	translucent	complete	B1.8-07	P5	wound	6,1	14	blue-green translucent	none	29	Europe
46	11244.07	20	glass	monochrome	opaque	complete	B1.2-01b	P4	wound	5	4,6	yellow opaque	none	25	Europe
46	11244.07	21	glass	monochrome	translucent	complete	B1.2-01b	P4	wound	5,1	5,5	yellow opaque	none	25	Europe
46	11244.07	22	glass	monochrome	translucent	complete	B1.2-01b	P4	wound	5	4,1	yellow opaque	none	25	Europe
46	11244.07	23	glass	monochrome	translucent	complete	B1.8-07	P5	wound	5,5	8,7	blue-green translucent	none	29	Europe
46	11244.07	24	glass	monochrome	opaque	complete	B1.8-07	P5	wound	6,1	11,2	blue-green translucent	none	29	Europe
46	11244.07	25	glass	monochrome	opaque	complete	B1.8-07	P5	wound	6,2	13,2	blue-green translucent	none	29	Europe
46	11244.07	26	amber	n.a.	n.a.	complete	F1.8-04	P1-P5	cut	15,9	20,2	amber	none	52	Baltic

46	11244.07	27	glass	monochrome	opaque	complete	B1.2-01c	P4	wound	5,3	8,2	yellow opaque	none	24	Europe
46	11244.07	28	glass	monochrome	opaque	complete	B1.1-02a	P2-P5	wound	4,7	3	yellow opaque	none	30	Europe
46	11244.07	29	glass	monochrome	opaque	complete	B1.1-02a	P2-P5	wound	4,4	3,1	yellow opaque	none	30	Europe
46	11244.07	30	glass	monochrome	opaque	complete	B1.2-01c	P4	wound	5	9,4	yellow opaque	none	24	Europe
46	11244.07	31	glass	monochrome	opaque	complete	B1.2-01c	P4	wound	5	8,7	yellow opaque	none	24	Europe
46	11244.07	32	glass	monochrome	opaque	complete	B1.7-03	P5	wound	9,5	19,6	green opaque	none	15	Europe
46	11244.07	33	amber	n.a.	n.a.	complete	F1.8-02	P1-P5	cut	8,9	10,4	amber	none	45	Baltic
46	11244.07	34	glass	monochrome	opaque	complete	B1.2-01c	P4	wound	4,8	7,5	yellow opaque	none	24	Europe

Appendix 3.7 Bead determination Uden-Schepersweg

Grave 11

gravenr	findnr	subnr	Material	Monochrome /polychrome	Translucent /opaque	Condition	Vrielynck/ Mathis/ Pion Type	Phase	Technique	Size diameter (mm)	Size length (mm)	colour(s)	decoration	Shape	production region
11	2364	1	glass	monochrome	opaque	complete	B1.3-09b	P5	wound	8,1	5,7	red opaque	none	19	Europe
11	2365	2	glass	monochrome	opaque	complete	B1.4-07	P5	wound	7,4	5,7	green opaque	none	11	Europe
11	1221	3	glass	monochrome	opaque	complete	B1.3-02	P3	wound	7,6	6,2	red opaque	none	19	Europe
11	2289	4	glass	monochrome	opaque	complete	B1.3-09c	P5	wound	7,8	5,5	white opaque	none	19	Europe
11	2290	5	glass	monochrome	translucent	complete	B1.3-09e	P5	wound	8,4	6,3	green-blue opaque	none	19	Europe
11	2291	6	glass	monochrome	opaque	complete	B1.4-07	P5	wound	6,5	5,8	green opaque	none	11	Europe
11	2292	7	glass	monochrome	translucent	complete	B1.8-07	P5	wound	5,2	16,1	green-blue translucent	none	29	Europe
11	2293	8	glass	monochrome	translucent	complete	B1.4-04a	P3	wound	8	6,2	blue-green translucent	none	11	Europe
11	2294	9	glass	monochrome	opaque	weathered	B1.4-02a	P3	wound	8,2	9,1	red opaque	none	11	Europe
11	2295	10	glass	monochrome	opaque	complete	B1.4-02a	P3	wound	8,3	7,1	red opaque	none	11	Europe
11	2299	11	glass	monochrome	opaque	complete	B1.4-03a	P3	wound	8	6,1	white opaque	none	11	Europe
11	2296	12	glass	monochrome	translucent	complete	B1.3-06	P5	wound	11,6	9,8	green-blue translucent	none	20	Europe
11	2297	13	glass	monochrome	opaque	complete	B1.4-07	P5	wound	7,8	6	green opaque	none	11	Europe
11	2298	14	glass	monochrome	opaque	complete	B1.4-03a	P3	wound	7,8	6	white opaque	none	11	Europe
11	2300	15	glass	monochrome	opaque	complete	B1.3-02	P3	wound	7,8	6,3	red opaque	none	19	Europe
11	2301	16	glass	monochrome	translucent	complete	B1.3-06	P5	wound	10,2	8,2	green-blue translucent	none	20	Europe
11	2302	17	glass	monochrome	opaque	weathered	B1.3-09b	P5	wound	7,8	5,4	red opaque	none	19	Europe
11	2303	18	glass	monochrome	opaque	complete	B1.3-09c	P5	wound	8	5,5	white opaque	none	19	Europe
11	2304	19	glass	monochrome	opaque	complete	B1.2-05	P4	wound	5,6	5,4	blue-green translucent	none	25	Europe
11	2305	20	glass	monochrome	opaque	weathered	B1.3-09d	P5	wound	8,2	5,6	green opaque	none	19	Europe
11	2306	21	glass	monochrome	opaque	complete	B1.3-03	P3	wound	9,8	10	white opaque	none	20	Europe
11	2307	22	glass	monochrome	opaque	complete	B1.4-02a	P3	wound	7,9	6	red opaque	none	11	Europe
11	2308	23	glass	monochrome	opaque	weathered	B1.4-07	P5	wound	8,2	5,4	green opaque	none	11	Europe
11	2348	24	glass	monochrome	translucent	complete	B1.4-04a	P3	wound	7,8	5,9	blue-green translucent	none	11	Europe
11	2351	25	glass	monochrome	opaque	complete	B1.3-02	P3	wound	8,1	5,6	red opaque	none	19	Europe
11	2350	26	glass	polychrome	opaque	complete	B3.2-01d	P3	wound	13,3	8,9	red opaque, white opaque	interlacing	4	Europe
11	2349	27	glass	monochrome	opaque	complete	B1.4-02a	P3	wound	7,5	5,8	red opaque	none	11	Europe
11	2356	28	amber	n.a.	n.a.	complete	F1.8-03	P1-P5	cut	7,5	13	amber	none	45	Baltic
11	2357	29	glass	polychrome	opaque	complete	B3.2-01d	P3	wound	12,9	9,8	red opaque, white opaque	interlacing	4	Europe
11	2355	30	glass	monochrome	opaque	weathered	B1.3-09d	P5	wound	8,3	5	green opaque	none	19	Europe
11	2354	31	glass	monochrome	translucent	complete	B1.4-06a	P3	wound	7,6	5,9	blue translucent	none	11	Europe
11	2353	32	glass	monochrome	opaque	weathered	B1.3-09d	P5	wound	8,5	5,3	green opaque	none	19	Europe
11	2352	33	glass	monochrome	opaque	complete	B1.5-06	P5	wound	12	10,5	red opaque	none	28	Europe
11	2361	34	glass	monochrome	opaque	complete	B1.3-09b	P5	wound	8	5,9	red opaque	none	19	Europe

11	2360	35	glass	monochrome	opaque	weathered	B1.3-09b	P5	wound	8,4	7	red opaque	none	19	Europe
11	2358	36	glass	monochrome	opaque	weathered	B1.3-09b	P5	wound	7,8	4,9	red opaque	none	19	Europe
11	2359	37	glass	monochrome	opaque	complete	B1.3-09c	P5	wound	7,7	5,4	white opaque	none	19	Europe
11	2362	38	glass	monochrome	opaque	complete	B1.4-03a	P3	wound	7,5	5,7	white opaque	none	11	Europe
11	2363	39	glass	monochrome	opaque	complete	B1.3-02	P3	wound	8,1	6,4	red opaque	none	20	Europe
11	2341	40	glass	monochrome	opaque	complete	B1.3-09b	P5	wound	8,6	5,4	red opaque	none	19	Europe
11	2340	41	glass	monochrome	opaque	complete	B1.4-03a	P3	wound	7,6	5,4	white opaque	none	11	Europe
11	2323	42	glass	monochrome	opaque	weathered	B1.5-06	P5	wound	12,9	11,6	red opaque	none	28	Europe
11	2321	43	glass	monochrome	opaque	complete	B1.3-09d	P5	wound	7,8	4,5	green opaque	none	19	Europe
11	2322	44	glass	monochrome	opaque	complete	B1.3-09d	P5	wound	7,6	5,3	green opaque	none	19	Europe
11	2324	45	glass	monochrome	translucent	complete	B1.8-07	P5	wound	5,2	13,8	green blue translucent	none	29	Europe
11	2325	46	glass	monochrome	opaque	complete	B1.7-02	P5	wound	7,4	14,8	white opaque	none	26	Europe
11	2326	47	glass	monochrome	opaque	complete	B1.3-02	P3	wound	7,7	5,6	red opaque	none	19	Europe
11	2339	48	glass	monochrome	opaque	complete	B1.?	P?	wound	12,8	11,3	blue opaque	none	38	Europe
11	2338	49	glass	monochrome	opaque	complete	B1.3-09d	P5	wound	8	5,7	green opaque	none	19	Europe
11	2337	50	glass	monochrome	opaque	complete	B1.3-03	P3	wound	8,2	7,8	white opaque	none	20	Europe
11	2335	51	glass	monochrome	opaque	complete	B1.3-01	P3	wound	9,2	7,9	yellow opaque	none	19	Europe
11	2336	52	glass	monochrome	translucent	complete	B1.4-04a	P3	wound	7,7	4,7	blue-green translucent	none	11	Europe
11	2334	53	glass	monochrome	opaque	complete	B1.3-02	P3	wound	7,9	6,2	red opaque	none	19	Europe
11	2333	54	glass	monochrome	opaque	complete	B1.6-01c	P2	wound	7,8	6,6	white opaque	none	32	Europe
11	2329	55	glass	monochrome	opaque	complete	B1.3-09b	P5	wound	8,3	5,7	red opaque	none	19	Europe
11	2328	56	glass	monochrome	translucent	complete	B1.3-05	P3	wound	11	7,3	blue translucent	none	20	Europe
11	2327	57	glass	monochrome	translucent	complete	B1.4-04a	P3	wound	8,3	5,6	blue-green translucent	none	11	Europe
11	2330	58	glass	monochrome	opaque	complete	B1.3-09b	P5	wound	8,4	6,2	red opaque	none	19	Europe
11	2331	59	glass	monochrome	opaque	complete	B1.3-03	P3	wound	11	8,8	white opaque	none	20	Europe
11	2332	60	glass	monochrome	opaque	complete	B1.5-?	P5?	wound	11,9	8,5	white opaque	none	28	Europe
11	2343	61	glass	monochrome	opaque	complete	B1.4-02a	P3	wound	6	3,5	red opaque	none	30	Europe
11	2344	62	glass	monochrome	opaque	complete	B1.3-02	P3	wound	7,3	6,1	red opaque	none	19	Europe
11	2345	63	glass	monochrome	opaque	complete	B1.3-09d	P5	wound	8,1	5,6	green opaque	none	11	Europe
11	2342	64	glass	monochrome	translucent	complete	B1.8-07	P5	wound	5,7	13,3	green-blue translucent	none	29	Europe
11	2346	65	glass	monochrome	opaque	complete	B1.4-02a	P3	wound	7,4	6	red opaque	none	11	Europe
11	2347	66	glass	monochrome	opaque	complete	B1.3-09d	P5	wound	6,5	4,9	green opaque	none	19	Europe
11	2315	67	glass	polychrome	both	weathered	B11.3-01c?	P2?	wound	19,4	13	red opaque, white opaque, yellow opaque, blue translucent	interlacing, irregular dots	18	Europe
11	2314	68	glass	monochrome	opaque	complete	B1.4-02a	P3	wound	7,9	6,5	red opaque	none	11	Europe
11	2313	69	glass	monochrome	opaque	complete	B1.3-03	P3	wound	8,3	8,8	white opaque	none	19	Europe
11	2311	70	glass	monochrome	opaque	complete	B1.8-02	P5	wound	4,9	15	yellow-green opaque	none	29	Europe
11	2312	71	amber	n.a.	n.a.	complete	F1.8-03	P1-P5	cut	15,5	13,6	amber	none	40	Baltic
11	2316	72	glass	monochrome	opaque	complete	B1.3-09d	P5	wound	7,1	5,4	green opaque	none	19	Europe
11	2318	73	amber	n.a.	n.a.	complete	F1.8-04	P1-P5	cut	12,4	12,8	amber	none	9	Baltic
11	2317	74	glass	monochrome	opaque	complete	B1.4-02a	P3	wound	7,5	5,3	red opaque	none	11	Europe

11	2319	75	glass	monochrome	translucent	complete	B1.3-06	P5	wound	7,6	4,4	green-blue translucent	none	19	Europe
11	2320	76	glass	monochrome	opaque	complete	B1.3-02	P3	wound	7,3	6,3	red opaque	none	20	Europe
11	2310	77	glass	monochrome	opaque	broken	B1.5?	P?	wound	13,6	10,2	green opaque	none	28	Europe
11	2309	78	glass	monochrome	opaque	complete	B1.3-03	P3	wound	9,4	9,8	white opaque	none	19	Europe
11	2288	79	glass	monochrome	translucent	complete	B1.4-04a	P3	wound	7,6	5,9	blue-green translucent	none	11	Europe
11	2287	80	glass	monochrome	opaque	complete	B1.4-03a	P3	wound	7,7	5	white opaque	none	11	Europe
11	1212	81	glass	polychrome	opaque	weathered	B3.3-03a	P4	wound	10,5	7	white opaque, green-blue translucent	interlacing	18	Europe
11	1225	82	glass	monochrome	translucent	complete	B1.4-04a	P3	wound	7,6	6,6	blue-green translucent	none	11	Europe
11	1061	83	glass	monochrome	opaque	complete	B1.4-05a	P3	wound	7,8	6	green opaque	none	11	Europe
11	2209	84	glass	monochrome	opaque	complete	B1.5-?	P5?	wound	12	11,5	green opaque	none	28	Europe
11	1211	86	glass	monochrome	opaque	broken	B1.3-03	P3	wound	n.a.	n.a.	white opaque	none	20	Europe

Grave 14

gravenr	findnr	subnr	Material	monochrome /polychrome	translucent /opaque	Condition	Vrielynck/ Mathis/ Pion Type	Phase	Technique	Size diameter (mm)	Size length (mm)	colour(s)	decoration	Shape	production region
14	1268	1	glass	monochrome	opaque	complete	B1.3-09d	P5	wound	7,7	5,1	green opaque	none	11	Europe
14	2225	2	glass	monochrome	opaque	complete	B1.4-03a	P3	wound	5,4	7,9	white opaque	none	6	Europe
14	2226	3	glass	monochrome	opaque	broken	B1.3-03	P3	wound	7,2	6,2	white opaque	none	20	Europe
14	2229	4	glass	polychrome	opaque	complete	B6.2-01b	P5	wound	6,1	17,3	red opaque, yellow opaque	regular dots	7	Europe
14	2228	5	glass	monochrome	opaque	weathered	B1.3-02	P3	wound	6,4	9,6	red opaque	none	19	Europe
14	2230	6	glass	monochrome	opaque	broken	B1.7-03	P5	wound	5,6	19,1	green opaque	none	50	Europe
14	2232	7	glass	monochrome	opaque	complete	B1.3-02	P3	wound	8,2	5,1	red opaque	none	20	Europe
14	2231	8	glass	monochrome	opaque	complete	B1.7-03	P5	wound	18,1	5,5	green opaque	none	50	Europe
14	2233	9	glass	monochrome	opaque	complete	B1.4-03a	P3	wound	7,4	5,9	white opaque	none	11	Europe
14	1254	10	glass	monochrome	translucent	complete	B1.1-08d	P?	wound	6,4	4,8	blue-green translucent	none	18	Europe

Grave 15

gravenr	findnr	subnr	Material	monochrome /polychrome	translucent /opaque	Condition	Vrielynck/ Mathis/ Pion Type	Phase	Technique	Size diameter (mm)	Size length (mm)	colour(s)	decoration	Shape	production region
15	2273	1	glass	polychrome	opaque	complete	B3.2-01b	P3	wound	9,9	7	red opaque, white opaque	interlacing	18	Europe
15	2238	2	glass	polychrome	opaque	complete	B3.1-01a	P3	wound	8,8	5,7	yellow opaque, red opaque	interlacing	18	Europe
15	2239	3	glass	polychrome	opaque	complete	B3.2-01b	P3	wound	8,4	7,5	red opaque, white opaque	interlacing	18	Europe
15	2240	4	glass	polychrome	opaque	complete	B3.2-01a	P3	wound	8,1	6,5	red opaque, white opaque	interlacing	18	Europe
15	2244	5	glass	polychrome	opaque	complete	B4.2-02b	P3	wound	8,2	19,5	red opaque, yellow opaque	punctuated interlacing	55	Europe
15	2255	6	glass	polychrome	opaque	complete	B3.1-01a	P3	wound	8,9	6	yellow opaque, red opaque	interlacing	18	Europe

15	2285	7	glass	polychrome	opaque	complete	B5.2-01d	P2	wound	7,8	13,9	red opaque, white opaque	spiraling	6	Europe
15	2243	8	glass	polychrome	both	complete	B4.3-02	P3	wound	14,5	11,1	white opaque, red opaque, blue translucent	punctuated interlacing	18	Europe
15	2242	9	glass	polychrome	opaque	complete	B4.2-02b	P3	wound	7,7	11,2	red opaque, yellow opaque	punctuated interlacing	6	Europe
15	2215	10	glass	polychrome	opaque	complete	B3.1-01a	P3	wound	9,2	7,8	yellow opaque, red opaque	interlacing	18	Europe
15	2286	11	glass	polychrome	opaque	weathered	B3.3-01a	P2	wound	9,2	8,4	white opaque, yellow translucent	interlacing	18	Europe
15	2216	12	glass	polychrome	opaque	complete	B3.2-01b	P3	wound	9,2	12,8	red opaque, white opaque	interlacing	25	Europe
15	2245	13	glass	polychrome	opaque	complete	B3.2-01c	P4	wound	9,2	6,6	red opaque, white opaque	interlacing	18	Europe
15	2213	14	glass	polychrome	opaque	complete	B1.1-02b	P1-P5	wound	6,9	4,1	yellow opaque	none	18	Europe
15	1296	15	glass	monochrome	opaque	complete	B5.2-02d	P2	wound	6,4	10,6	yellow opaque, red opaque	spiraling	6	Europe
15	2224	16	glass	polychrome	opaque	complete	B3.2-01b	P3	wound	9,3	6	red opaque, white opaque	interlacing	18	Europe
15	2246	17	glass	polychrome	opaque	complete	B4.2-02b	P3	wound	8,9	11	red opaque, yellow opaque	punctuated interlacing	19	Europe
15	2247	18	glass	monochrome	opaque	weathered	B3.3-01a	P2	wound	9,3	6,6	white opaque, yellow translucent	interlacing	18	Europe
15	2248	19	glass	polychrome	opaque	complete	B3.2-01b	P3	wound	9,4	7,6	red opaque, white opaque	interlacing	18	Europe
15	2256	20	glass	polychrome	opaque	complete	B3.1-01a	P3	wound	8	5,5	yellow opaque, red opaque	interlacing	18	Europe
15	2249	21	glass	polychrome	opaque	complete	B3.2-01b	P3	wound	8,7	6,7	red opaque, white opaque	interlacing	18	Europe
15	2254	22	glass	polychrome	opaque	complete	B4.2-02b	P3	wound	8,5	18,5	red opaque, yellow opaque	punctuated interlacing	55	Europe
15	2250	23	glass	polychrome	opaque	complete	B4.2-02b	P3	wound	9,2	9,9	red opaque, yellow opaque	punctuated interlacing	27	Europe
15	2251	24	glass	polychrome	opaque	complete	B3.2-01a	P3	wound	5,6	9,3	red opaque, white opaque	interlacing	18	Europe
15	2252	25	glass	polychrome	opaque	complete	B3.1-01a	P3	wound	10,6	12,1	yellow opaque, red opaque	interlacing	25	Europe
15	2217	26	glass	monochrome	opaque	weathered	B3.3-01a	P2	wound	9,9	8,7	white opaque, yellow translucent	interlacing	18	Europe
15	2283	27	glass	polychrome	opaque	complete	B3.2-01a	P3	wound	9,2	6,5	red opaque, white opaque	interlacing	18	Europe
15	2279	28	glass	polychrome	opaque	weathered	B5.2-02a	P3	wound	7,4	11,3	red opaque, yellow opaque	spiraling	6	Europe
15	2220	29	glass	polychrome	opaque	broken	B4.2-02b	P3	wound	8,6	9,4	red opaque, yellow opaque	punctuated interlacing	27	Europe
15	2253	30	glass	polychrome	opaque	complete	B11.1-01	P2	wound	11,2	24	red opaque yelow opaque	combed spiral	14	Europe
15	2282	31	glass	polychrome	opaque	complete	B3.2-01b	P3	wound	8,4	5,8	red opaque, white opaque	interlacing	18	Europe
15	2281	32	glass	polychrome	both	complete	B4.3-02	P3	wound	14,5	11,4	white opaque, red opaque, blue translucent	punctuated interlacing	18	Europe
15	2223	33	glass	polychrome	opaque	complete	B3.1-01a	P3	wound	8,7	6,1	yellow opaque, red opaque	interlacing	18	Europe
15	2278	34	glass	polychrome	both	complete	B4.3-02	P3	wound	14,7	11,8	white opaque, red opaque, blue translucent	punctuated interlacing	18	Europe
15	2277	35	glass	polychrome	opaque	weathered	B3.3-01a	P2	wound	7,6	5,2	white opaque, yellow translucent	interlacing	18	Europe
15	2276	36	glass	polychrome	opaque	complete	B4.2-02b	P3	wound	9,1	9,9	red opaque, yellow opaque	punctuated interlacing	27	Europe
15	2275	37	glass	polychrome	opaque	complete	B4.2-02b	P3	wound	7,4	11,5	red opaque, yellow opaque	interlacing	6	Europe
15	2274	38	glass	polychrome	opaque	complete	B3.2-01b	P3	wound	10,3	8,3	red opaque, white opaque	interlacing	18	Europe

15	2273	39	glass	monochrome	opaque	complete	B1.1-02c	P1-P3	wound	8,6	5,8	yellow opaque	none	20	Europe
15	2272	40	glass	polychrome	opaque	complete	B3.1-01a	P3	wound	8,7	7,1	yellow opaque, red opaque	interlacing	18	Europe
15	2271	41	glass	polychrome	opaque	complete	B4.2-02b	P3	wound	8,4	9,8	red opaque, yellow opaque	punctuated interlacing	27	Europe
15	2270	42	glass	polychrome	opaque	complete	B5.2-01d	P2	wound	8,3	15,2	red opaque, white opaque	combed spiral	27	Europe
15	2269	43	glass	monochrome	opaque	weathered	B3.3-01a	P2	wound	10,3	7,7	white opaque, yellow translucent	interlacing	18	Europe
15	2268	44	glass	polychrome	opaque	complete	B3.1-01a	P3	wound	8,4	6,2	yellow opaque, red opaque	interlacing	18	Europe
15	2266	45	glass	polychrome	opaque	complete	B3.2-01a	P3	wound	8,6	7,1	red opaque, white opaque	interlacing	18	Europe
15	2263	46	glass	polychrome	opaque	complete	B3.2-01b	P3	wound	9,7	5,4	red opaque, white opaque	interlacing	18	Europe
15	2262	47	glass	polychrome	opaque	complete	B3.2-01b	P3	wound	8,8	5,3	red opaque, white opaque	interlacing	20	Europe
15	2261	48	glass	polychrome	opaque	complete	B4.2-02b	P3	wound	7,9	9,6	red opaque, yellow opaque	punctuated interlacing	27	Europe
15	2264	49	glass	polychrome	opaque	weathered	B3.2-01a	P3	wound	10,6	6,2	red opaque, white opaque	interlacing	11	Europe
15	2260	50	glass	monochrome	opaque	weathered	B3.3-01a	P2	wound	8,5	7,9	white opaque, yellow translucent	interlacing	18	Europe
15	2265	51	glass	polychrome	opaque	complete	B3.1-01a	P3	wound	8,2	5,5	yellow opaque, red opaque	interlacing	18	Europe
15	2259	52	glass	polychrome	opaque	complete	B3.2-01b	P3	wound	8,5	7,6	red opaque, white opaque	interlacing	18	Europe
15	2258	53	glass	polychrome	opaque	complete	B3.2-01a	P3	wound	8	6	red opaque, white opaque	interlacing	18	Europe
15	2257	54	glass	polychrome	opaque	complete	B3.2-01c	P4	wound	9,4	12,8	red opaque, white opaque	interlacing	25	Europe
15	1285	55	glass	polychrome	opaque	complete	B3.2-01b	P3	wound	9,7	6,4	red opaque, white opaque	interlacing	18	Europe
15	1277	56	glass	polychrome	opaque	complete	B3.2-01a	P3	wound	9,1	6,5	red opaque, white opaque	interlacing	18	Europe
15	1297	57	glass	polychrome	opaque	complete	B3.1-01a	P3	wound	8,4	5,5	yellow opaque, red opaque	interlacing	18	Europe
15	2212	58	glass	polychrome	opaque	complete	B3.1-01a	P3	wound	8,6	6	yellow opaque, red opaque	interlacing	18	Europe
15	1250	59	glass	polychrome	opaque	complete	B3.1-01a	P3	wound	8,3	6	yellow opaque, red opaque	interlacing	18	Europe
15	2211	60	glass	polychrome	opaque	complete	B3.1-01a	P3	wound	8,4	5,7	yellow opaque, red opaque	interlacing	18	Europe

Grave 17

gravenr	findnr	subnr	Material	monochrome /polychrome	translucent /opaque	Condition	Vrielynck/ Mathis/ Pion Type	Phase	Technique	Size diameter (mm)	Size length (mm)	colour(s)	decoration	Shape	production region
17	2210	1	glass	monochrome	opaque	burned	B1.1-03c?	P1-P3?	wound	10,5	5,6	red opaque?	none	18	Europe
17	1523	2	glass	monochrome	opaque	burned	B1.3-09b	P5	wound	8,5	9,9	red opaque?	none	19	Europe

Grave 19 beads neck

gravenr	findnr	subnr	Material	monochrome /polychrome	translucent /opaque	Condition	Vrielynck/ Mathis/ Pion Type	Phase	Technique	Size diameter (mm)	Size length (mm)	colour(s)	decoration	Shape	production region

19	1790	1	glass	monochrome	opaque	complete	B1.1-01a	P0-P3	wound	n.a.	n.a.	black opaque	none	30	Europe
19	2379	2	glass	monochrome	opaque	complete	B1.1-01a	P0-P3	wound	n.a.	n.a.	black opaque	none	30	Europe
19	2384	3	glass	monochrome	opaque	complete	B1.1-01a	P0-P3	wound	n.a.	n.a.	black opaque	none	30	Europe
19	2385	4	glass	monochrome	opaque	complete	B1.1-01a	P0-P3	wound	n.a.	n.a.	black opaque	none	30	Europe
19	2386	5	glass	monochrome	opaque	complete	B1.1-01a	P0-P3	wound	n.a.	n.a.	black opaque	none	30	Europe
19	2387	6	glass	monochrome	opaque	complete	B1.1-01a	P0-P3	wound	n.a.	n.a.	black opaque	none	30	Europe
19	2388	7	glass	monochrome	opaque	complete	B1.1-01a	P0-P3	wound	n.a.	n.a.	black opaque	none	30	Europe
19	2389	8	glass	monochrome	opaque	complete	B1.1-01a	P0-P3	wound	n.a.	n.a.	black opaque	none	30	Europe
19	2390	9	glass	monochrome	opaque	complete	B1.1-01a	P0-P3	wound	n.a.	n.a.	black opaque	none	30	Europe
19	2391	10	glass	monochrome	opaque	complete	B1.1-01a	P0-P3	wound	n.a.	n.a.	black opaque	none	30	Europe
19	2392	11	glass	monochrome	opaque	complete	B1.1-01a	P0-P3	wound	n.a.	n.a.	black opaque	none	30	Europe
19	2393	12	glass	monochrome	opaque	complete	B1.1-01a	P0-P3	wound	n.a.	n.a.	black opaque	none	30	Europe
19	2394	13	glass	monochrome	opaque	complete	B1.1-01a	P0-P3	wound	n.a.	n.a.	black opaque	none	30	Europe
19	2395	14	glass	monochrome	opaque	complete	B1.1-01a	P0-P3	wound	n.a.	n.a.	black opaque	none	30	Europe
19	2380	15	amber	n.a.	n.a.	complete	F1.8-02	P1-P5	cut	n.a.	n.a.	amber	none	40	Baltic
19	2381	16	amber	n.a.	n.a.	complete	F1.8-04	P1-P5	cut	n.a.	n.a.	amber	none	40	Baltic
19	2382	17	amber	n.a.	n.a.	complete	F1.8-02	P1-P5	cut	n.a.	n.a.	amber	none	45	Baltic
19	2383	18	amber	n.a.	n.a.	complete	F1.8-02	P1-P5	cut	n.a.	n.a.	amber	none	40	Baltic
19	1760	19	amber	n.a.	n.a.	complete	F1.8-04	P1-P5	cut	n.a.	n.a.	amber	none	40	Baltic
19	1751	20	amber	n.a.	n.a.	complete	F1.8-04	P1-P5	cut	n.a.	n.a.	amber	none	40	Baltic
19	2377	21	amber	n.a.	n.a.	complete	F1.8-04	P1-P5	cut	n.a.	n.a.	amber	none	45	Baltic
19	2378	22	amber	n.a.	n.a.	complete	F1.8-04	P1-P5	cut	n.a.	n.a.	amber	none	40	Baltic
19	2410	23	amber	n.a.	n.a.	complete	F1.8-02	P1-P5	cut	n.a.	n.a.	amber	none	45	Baltic
19	2411	24	amber	n.a.	n.a.	complete	F1.8-02	P1-P5	cut	n.a.	n.a.	amber	none	40	Baltic
19	2412	25	amber	n.a.	n.a.	complete	F1.8-02	P1-P5	cut	n.a.	n.a.	amber	none	40	Baltic
19	2400	27	glass	monochrome	opaque	complete	B1.1-01a	P0-P3	wound	n.a.	n.a.	black opaque	none	30	Europe
19	2401	28	glass	monochrome	opaque	complete	B1.1-01a	P0-P3	wound	n.a.	n.a.	black opaque	none	30	Europe
19	2402	29	glass	monochrome	opaque	complete	B1.1-01a	P0-P3	wound	n.a.	n.a.	black opaque	none	30	Europe
19	2403	30	glass	monochrome	opaque	complete	B1.1-01a	P0-P3	wound	n.a.	n.a.	black opaque	none	30	Europe
19	2404	31	glass	monochrome	opaque	complete	B1.1-01a	P0-P3	wound	n.a.	n.a.	black opaque	none	30	Europe
19	2405	32	glass	monochrome	opaque	complete	B1.1-01a	P0-P3	wound	n.a.	n.a.	black opaque	none	30	Europe
19	2406	33	glass	monochrome	opaque	complete	B1.1-01a	P0-P3	wound	n.a.	n.a.	black opaque	none	30	Europe
19	2407	34	glass	monochrome	opaque	complete	B1.1-01a	P0-P3	wound	n.a.	n.a.	black opaque	none	30	Europe
19	2408	35	glass	monochrome	opaque	complete	B1.1-01a	P0-P3	wound	n.a.	n.a.	black opaque	none	30	Europe
19	2409	36	glass	monochrome	opaque	complete	B1.1-01a	P0-P3	wound	n.a.	n.a.	black opaque	none	30	Europe
19	2415	37	glass	monochrome	opaque	complete	B1.1-01a	P0-P3	wound	n.a.	n.a.	black opaque	none	30	Europe
19	2416	38	glass	monochrome	opaque	complete	B1.1-01a	P0-P3	wound	n.a.	n.a.	black opaque	none	30	Europe
19	2417	39	glass	monochrome	opaque	complete	B1.1-01a	P0-P3	wound	n.a.	n.a.	black opaque	none	30	Europe

Grave 19 arm

gravenr	findnr	subnr	Material	monochrome /polychrome	translucent /opaque	Condition	Vrielynck/ Mathis/ Pion Type	Phase	Technique	Size diameter (mm)	Size length (mm)	colour(s)	decoration	Shape	production region
19	1752	1	faience	n.a.	n.a.	complete	G1.2-05	Roman	modelled	n.a.	n.a.	blue-green opaque	none	39	Egypt
19	1725	2	amber	n.a.	n.a.	complete	F1.8-03	P1-P5	cut	n.a.	n.a.	amber	none	40	Baltic
19	1753	3	amber	n.a.	n.a.	complete	F1.8-02	P1-P5	cut	n.a.	n.a.	amber	none	40	Baltic
19	1761	4	glass	monochrome	translucent	complete	B1.1-08d	P?	wound	n.a.	n.a.	blue-green translucent	none	18	Europe
19	1762	5	glass	monochrome	opaque	complete	B1.1-04b	P1-P3	wound	n.a.	n.a.	white opaque	none	18	Europe
19	1758	6	glass	polychrome	opaque	complete	B11.10-02?	P?	wound	n.a.	n.a.	black opaque, white opaque, yellow opaque	combed spiral	18	Europe
19	1757	7	glass	polychrome	opaque	complete	B10.2-02a	P2	wound	n.a.	n.a.	red opaque, green opaque, yellow opaque	polychrome twist	4	Mediterranean
19	1755	8	amber	n.a.	n.a.	complete	F1.1-02	P3	cut	n.a.	n.a.	amber	none	18	Baltic
19	1754	9	amber	n.a.	n.a.	complete	F1.6	P1	cut	n.a.	n.a.	amber	none	40	Baltic
19	2414	10	glass	monochrome	translucent	complete	B1.1-11a	P1?	wound	n.a.	n.a.	colourless translucent	none	18	Europe
19	1709	11	glass	monochrome	opaque	complete	B1.1-04b	P1-P3	wound	n.a.	n.a.	white opaque	none	18	Europe
19	1756	12	meerschaum	n.a.	n.a.	broken	F4.1	P1-P5	cut	n.a.	n.a.	meerschaum	none	11	Mediterranean

Grave 19 beads miscellaneous

gravenr	findnr	subnr	Material	monochrome /polychrome	translucent /opaque	Condition	Vrielynck/ Mathis/ Pion Type	Phase	Technique	Size diameter (mm)	Size length (mm)	colour(s)	decoration	Shape	production region
19	1540	1	glass	monochrome	opaque	burned	B1.3-09b	P5	wound	6,4	8,5	red opaque	none	19	Europe
19	1546	1	glass	monochrome	opaque	burned	B?	P?	wound	9,8	5,7	green opaque	none	?	Europe

Grave 19 glass spindle whorl

gravenr	findnr	subnr	Material	Monochrome /polychrome	Translucent /opaque	Condition	Vrielynck/ Mathis/ Pion Type	Phase	Technique	Size diameter (mm)	Size length (mm)	colour(s)	decoration	Shape	production region
19	1564	1	glass	polychrome	both	complete	B12.1-03	P1b-P2	wound	n.a.	n.a.	yellow translucent, white opaque	combed spiral	18	Europe

Grave 21

gravenr	findnr	subnr	Material	monochrome /polychrome	translucent /opaque	Condition	Vrielynck/ Mathis/ Pion Type	Phase	Technique	Size diameter (mm)	Size length (mm)	colour(s)	decoration	Shape	production region
21	2207	1	glass	monochrome	opaque	complete	B1.5-07	P5	wound	n.a.	n.a.	blue-green opaque	none	28	Europe
21	2205	2	glass	monochrome	opaque	complete	B1.5-07	P5	wound	n.a.	n.a.	blue-green opaque	none	28	Europe
21	2206	4	glass	monochrome	opaque	complete	B1.5-06	P5	wound	n.a.	n.a.	red opaque	none	28	Europe
21	2204	5	glass	monochrome	opaque	complete	B1.5-06	P5	wound	n.a.	n.a.	red opaque	none	28	Europe
21	1581	6	glass	monochrome	opaque	complete	B1.5?	P5?	wound	n.a.	n.a.	white opaque	none	28	Europe
21	1581	7	glass	monochrome	opaque	complete	B1.5?	P5?	wound	n.a.	n.a.	white opaque	none	28	Europe
21	1736	8	glass	monochrome	opaque	complete	B1.3-08?	P4?	wound	n.a.	n.a.	orange opaque	none	18	Europe
21	2203	11	glass	monochrome	opaque	complete	B1.5?	P5?	wound	n.a.	n.a.	yellow opaque	none	28	Europe
21	2203	12	glass	monochrome	translucent	complete	B1.8-07	P5	wound	n.a.	n.a.	green-blue translucent	none	29	Europe
21	2208	13	glass	monochrome	opaque	complete	B1.3-08	P4	wound	n.a.	n.a.	orange opaque	none	20	Europe

Grave 22

gravenr	findnr	subnr	Material	monochrome /polychrome	translucent /opaque	Condition	Vrielynck/ Mathis/ Pion Type	Phase	Technique	Size diameter (mm)	Size length (mm)	colour(s)	decoration	Shape	production region
22	1562	1	glass	polychrome	opaque	complete	B5.6-01	P?	wound	7,3	15,9	green opaque, red opaque	combed spiral	26	Europe
22	1574	2	glass	monochrome	translucent	complete	B1.3-09e	P5	wound	8,2	6,4	blue-green opaque	none	11	Europe
22	1578	3	glass	monochrome	opaque	complete	B1.4-03c	P5	wound	7,7	5,4	white opaque	none	11	Europe

Grave 23

gravenr	findnr	subnr	Material	monochrome /polychrome	translucent /opaque	Condition	Vrielynck/ Mathis/ Pion Type	Phase	Technique	Size diameter (mm)	Size length (mm)	colour(s)	decoration	Shape	production region
23	1584	1	glass	monochrome	translucent	weathered	B1.3-09e	P5	wound	8,3	6,4	green-blue translucent	none	11	Europe

Grave 29

gravenr	findnr	subnr	Material	monochrome /polychrome	translucent /opaque	Condition	Vrielynck/ Mathis/ Pion Type	Phase	Technique	Size diameter (mm)	Size length (mm)	colour(s)	decoration	Shape	production region
29	2047	1	amber	n.a.	n.a.	complete	F1.8-02	P1-P5	cut	6,9	8	amber	none	52	Baltic
29	2048	2	amber	n.a.	n.a.	complete	F1.8-02	P1-P5	cut	6,1	6,9	amber	none	19	Baltic
29	2049	3	glass	monochrome	opaque	complete	B1.6-01b	P2	wound	7,6	10	amber	none	32	Baltic
29	2050	4	glass	monochrome	opaque	complete	B1.1-02c	P1-P3	wound	7,1	5	yellow opaque	none	18	Europe
29	2051	5	glass	monochrome	opaque	broken	D1.1-03?	P1-P3?	perforated	n.a.	n.a.	blue translucent	none	?	Near East
29	2052	6	amber	n.a.	n.a.	complete	F1.8-02	P1-P5	cut	10,5	9,9	amber	none	51	Baltic
29	2053	7	glass	polychrome	both	broken	C2.2-02a	P2?	folded	n.a.	n.a.	green opaque, blue translucent	border	6	Near East
29	2054	8	glass	polychrome	both	broken	C2.2-02a	P2?	folded	n.a.	n.a.	green opaque, blue translucent	border	6	Near East
29	2055	9	glass	polychrome	both	broken	C2.2-02a	P2?	folded	n.a.	n.a.	green opaque, blue translucent	border	7	Near East
29	2057	10	glass	monochrome	opaque	complete	B1.6-01a	P2	wound	7,6	10	yellow opaque	none	32	Europe
29	2056	11	glass	polychrome	opaque	complete	B11.7-01a	P3	wound	16,6	7	yellow opaque, red opaque	combed spiral	33	Europe
29	2058	12	glass	polychrome	opaque	complete	B2.3-01e	P2	wound	9	11,3	red opaque, white opaque	waves	26	Europe
29	2059	13	glass	monochrome	opaque	complete	B1.1-03b	P1-P5	wound	6,3	3	red opaque	none	18	Europe
29	2060	14	amber	n.a.	n.a.	complete	F1.8-02	P1-P5	cut	5,3	7,1	amber	none	45	Baltic
29	2061	15	glass	polychrome	both	broken	C2.2-02a	P2?	folded	n.a.	n.a.	green opaque, blue translucent	border	6	Near East
29	2062	16	glass	polychrome	both	broken	C2.2-02a	P2?	folded	n.a.	n.a.	green opaque, blue translucent	border	7	Near East
29	2063	17	glass	polychrome	opaque	complete	B11.7-01a	P3	wound	18,4	8,1	yellow opaque, red opaque	combed spiral	33	Europe
29	2064	18	glass	polychrome	opaque	complete	B2.3-01e	P2	wound	9	10	red opaque, white opaque	waves	26	Europe
29	2065	19	amber	n.a.	n.a.	complete	F1.8-02	P1-P5	cut	5,9	6,5	amber	none	45	Baltic
29	2066	20	glass	polychrome	opaque	complete	B11.7-01a	P3	wound	18,1	8,1	yellow opaque, red opaque	combed spiral	33	Europe
29	2067	21	glass	monochrome	opaque	complete	B1.6-01c	P2	wound	7,9	10	white opaque	none	32	Europe
29	2068	22	glass	polychrome	both	complete	B2.5-03	P2	wound	9	10,5	white opaque, blue-green translucent	waves	26	Europe
29	2069	23	glass	monochrome	opaque	complete	B1.1-03a	P2	wound	4,6	3,1	red opaque	none	35	Europe
29	2070	24	amber	n.a.	n.a.	complete	F1.8-02	P1-P5	cut	7,2	7,1	amber	none	45	Baltic
29	2071	25	glass	polychrome	both	broken	C2.2-02a	P2?	folded	n.a.	n.a.	green opaque, blue translucent	border	6	Near East
29	2072	26	glass	monochrome	opaque	complete	B1.1-03b	P1-P5	wound	6,5	5,7	red opaque	none	19	Europe
29	2073	27	amber	n.a.	n.a.	complete	F1.8-02	P1-P5	cut	7,6	6,7	amber	none	40	Baltic
29	2074	28	glass	polychrome	both	broken	C2.2-02a	P2?	folded	n.a.	n.a.	green opaque, blue translucent	border	6	Near East
29	2075	29	amber	n.a.	n.a.	complete	F1.8-02	P1-P5	cut	7,9	8,2	amber	none	51	Baltic
29	2076	30	glass	monochrome	translucent	complete	A3.4-01b	P3	drawn	5,7	16,1	blue translucent	none	6	Near East
29	2077	31	amber	n.a.	n.a.	complete	F1.8-02	P1-P5	cut	6,7	6,5	amber	none	45	Baltic
29	2079	33	glass	monochrome	translucent	broken	D1.1-02	P1-P3	perforated	6,2	6,3	green translucent	none	40	Near East
29	2080	34	glass	monochrome	opaque	complete	B1.1-02c	P1-P3	wound	7,2	4,8	yellow opaque	none	18	Europe
29	2081	35	amber	n.a.	n.a.	complete	F1.8-02	P1-P5	cut	6,1	6,3	amber	none	52	Baltic
29	2082	36	glass	polychrome	both	broken	C2.2-02a	P2?	folded	n.a.	n.a.	green opaque, blue translucent	border	7	Near East

29	2083	37	amber	n.a.	n.a.	complete	F1.8-02	P1-P5	cut	9,6	9,9	amber	none	45	Baltic
29	2084	38	glass	polychrome	both	broken	C2.2-02a	P2?	folded	n.a.	n.a.	green opaque, blue translucent	border	7	Baltic
29	2085	39	amber	n.a.	n.a.	complete	F1.8-02	P1-P5	cut	7,3	6,4	amber	none	52	Baltic
29	2086	40	glass	monochrome	opaque	complete	B1.1-03b	P1-P5	wound	6,2	2,9	red opaque	none	18	Europe
29	2087	41	amber	n.a.	n.a.	complete	F1.8-02	P1-P5	cut	6,2	7,5	amber	none	45	Baltic
29	2237	42	amber	n.a.	n.a.	complete	F1.8-02	P1-P5	cut	7	8,1	amber	none	45	Baltic

Grave 39

gravenr	findnr	subnr	Material	monochrome /polychrome	translucent /opaque	Condition	Vrielynck/ Mathis/ Pion Type	Phase	Technique	Size diameter (mm)	Size length (mm)	colour(s)	decoration	Shape	production region
39	RII1928.000022.1	1	glass	polychrome	opaque	complete	B6.2-01b	P5	wound	7,4	14,6	red opaque, yellow opaque	regular dots	7	Europe
39	RII1928.000022.1	2	glass	monochrome	opaque	complete	B1.3-03	P3	wound	11,3	8,2	white opaque	none	20	Europe
39	RII1928.000022.1	3	glass	monochrome	opaque	complete	B1.3-09b	P5	wound	8,3	6	red opaque	none	11	Europe
39	RII1928.000022.1	4	glass	polychrome	both	complete	B2.5-02	P4	wound	14	9,7	white opaque, blue-green translucent	wave	20	Europe
39	RII1928.000022.1	5	glass	monochrome	opaque	complete	B1.8-02	P5	wound	5,3	14,2	yellow opaque	none	29	Europe
39	RII1928.000022.1	6	glass	monochrome	opaque	complete	B1.8-03	P5	wound	5,2	17,8	red opaque	none	29	Europe
39	RII1928.000022.1	7	glass	monochrome	opaque	complete	B1.8-02	P5	wound	n.a.	n.a.	yellow opaque	none	29	Europe
39	RII1928.000022.1	8	glass	monochrome	opaque	complete	B1.8-02	P5	wound	n.a.	n.a.	yellow opaque	none	29	Europe
39	RII1928.000022.1	9	glass	monochrome	opaque	complete	B1.8-02	P5	wound	n.a.	n.a.	yellow opaque	none	29	Europe
39	RII1928.000022.1	10	glass	monochrome	opaque	complete	B1.3-09c	P5	wound	n.a.	n.a.	white opaque	none	19	Europe

Appendix 3.8 Bead-types found in the Kempen

5mm
A3.1-01b?
A3.4-01b
B?
B1.1-01a
B1.1-02a
B1.1-02b
B1.1-02c
B1.1-02d
B1.1-03a
B1.1-03b
B1.1-04a
B1.1-04b
B1.1-06b
B1.1-07
B1.1-08c
B1.1-08d
B1.1-11a
B1.1-11c
B1.1-12a
B1.2-01a
B1.2-01b
B1.2-01c
B1.2-02a
B1.2-02b
B1.2-02c
B1.2-03b
B1.2-03c
B1.2-04a
B1.2-04b
B1.2-04c
B1.2-05
B1.2-06
B1.2-07
B1.2-08
B1.3-?
B1.3-?
B1.3-01
B1.3-02

5mm
B1.3-03
B1.3-05
B1.3-06
B1.3-08
B1.3-09a
B1.3-09b
B1.3-09c
B1.3-09d
B1.3-09e
B1.4-01a
B1.4-02a
B1.4-03a
B1.4-03b
B1.4-04a
B1.4-05a
B1.4-06a
B1.4-07
B1.5-01?
B1.5-02a
B1.5-06
B1.5-07
B1.5-07
B1.5-?
B1.5-?
B1.5-?
B1.6-01a
B1.6-01b
B1.6-01c
B1.6-01e
B1.7-01
B1.7-02
B1.7-03
B1.7-04

5mm
B1.8-02
B1.8-03
B1.8-07
B1.14-01
B1.14-02
B2.2-01a
B2.3-01e
B2.5-02
B2.5-03
B3.1-01a
B3.2-01a
B3.2-01b
B3.2-01c
B3.2-01d
B3.2-02b
B3.3-01a
B3.3-02a
B3.3-03a
B4.2-02b
B4.3-02
B5.1-02?
B5.2-01d
B5.2-02d
B5.6-01
B6.1-01?
B6.1-01?
B6.1-01?
B6.2-01a
B6.2-01b
B7.1-?
B7.1-01a
B9.1-01a
C2.2-02a
D?
D?
D?

1 cm
B8.2-03
B8.2-05
B8.2-?
B8.3-?
B10.1-02a
B10.4-01a?
B11.-?
B11.1-01
B11.1-02a
B11.2-01?
B11.2-04?
B11.3-01c?
B11.3-03b
B11.4-?
B11.4-?
B11.6-02a
B11.7-01a
B11.9-?
B11.10-02?
B12.1-03
E1.2-02
F1.6
F1.7
F1.8-04
F4.1?
F8.?
G1.2-05
5mm
D1.1-02
D1.1-03
D?
E1.2-03
F1.8-02
F1.8-03
F6.?
F?

Appendix 4 Bead Carnival (Chemistry Lent-Lentseveld)

Appendices with Chapter four

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Appendix 4.1: Table S1

Table S1 Overview of graves with beads from the cemetery Lent-Lentseveld. A= drawn beads, B= wound beads, C= folded beads, D= perforated beads, E= mosaic beads, F= cut beads.

Grave	Sex	Age	Position beads	Number of beads	number of bead groups	Material	Bead techniques	Provenance beads	Date beads	Period
1	female(?)	adult	neck	10	1	glass	B	Europe	500-600	P1-P3
2	female(?)	adult	neck	52	1	glass, amber, faience	B, F, A	Europe, Baltic, Egypt, Egypt/Syro-palestinian coast, Middle East, Roman	480-530	P1
5	female(?)	adult	neck	72	1	glass, amber	B, F, A, E, C	Europe, Baltic, Egypt, Egypt/Syro-palestinian coast	530-570	P2
9	female	adult	neck	25	1	glass, amber	B, F, A, E	Europe, Baltic, Egypt, Egypt/Syro-palestinian coast	500-550	P1-P2
12	child	3-4	?	1	1	amber	F	Baltic	500-600	P1-P5
13	child	5-6	neck, hip	82 + 22	2	glass, amber	B, F, A, E, C, D	Europe, Baltic, Egypt, Egypt/Syro-palestinian coast, India	500-550	P1-P2
16	female	adult	neck, hip	26 + 1	2	glass, amber, marble, beryllium	B, F, A, D	Europe, Baltic, Egypt/Syro-palestinian coast, Roman	480-530	P1
20	female	adult	neck,loose bead, hip	92 + 1	2	glass, amber	B, F, A, E	Europe, Baltic, Egypt, Egypt/Syro-palestinian coast, Middle East	500-550	P1-P2
21	child	5-6	belt?	12	1	glass, amber, faience	B, F, A, E	Europe, Baltic, Egypt, Egypt/Syro-palestinian coast, Roman	480-530	P1
23	female	adult	neck	32	1	glass, amber	B, F, A, C	Europe, Baltic, Egypt/Syro-palestinian coast, Roman	480-530	P1
26	child	5-6	neck, arm	61 + 37	2	glass, amber	B, F, A	Europe, Baltic, Egypt/Syro-palestinian coast	540-560	P2
27	child	4-5	belt	7	1	glass, faience	B	Europe, Roman	530-570	P2
28	female	adult	neck, loose bead	109	1	glass	B	Europe	500-550	P1-P2
34	female	adult	neck, arm/stomach, hip, knees	98 + 5 + 1 + 1	4	glass, meerschaum	B, F, A	Europe, Baltic, Mediteranean	500-550	P1-P2
35	female	adult	chest, hip	41 + 1	2	glass, amber	B, F, E, C	Europe, Baltic, Egypt, Egypt/Syro-palestinian coast	500-550	P1-P2
36	female	adult	chest	11	1	glass, amber	B, F, A, D	Europe, Baltic, Egypt/Syro-palestinian coast	480-530	P1
40	child	young child	neck	120	1	glass, amber	B, F, A, E, C, D	Europe, Baltic, Egypt, Egypt/Syro-palestinian coast, Middle East, India, Roman	500-550	P1-P2
41	female	adult	neck	27	1	glass, amber	B, F	Europe, Baltic, Mediteranean	530-570	P2

42	female	adult	neck	28	1	glass, amber	B, F, C	Europe, Baltic, Egypt/Syro-palestinian coast	500-550	P1-P2
43	female	adult	neck, bag	46 + 31	2	glass, amber	B, F, A, E	Europe, Baltic, Egypt, Egypt/Syro-palestinian coast	530-570	P2
45	female	adult	disturbed grave	5	1	glass, amber, faience	B, F	Europe, Baltic, Roman	480-610	P1-P3
50	female	adult	neck, hip	19 + 1	2	glass, amber, marble	B, F, A, E	Europe, Baltic, Egypt, Egypt/Syro-palestinian coast	500-550	P1-P2
51	female	adult	neck	46	1	glass, amber	B, F, D	Europe, Baltic, Egypt/Syro-palestinian coast	550-600	P2-P3
52	female	juvenile	neck	7	1	glass	B	Europe	480-610	P1-P3
53	female	adult	neck, loose bead	66 + 1	2	glass, amber	B, F, A, C	Europe, Baltic, Egypt/Syro-palestinian coast, India	530-570	P2
55	child	infant	chest	5	1	glass, amber	B, F, A, C	Europe, Baltic, Egypt/Syro-palestinian coast	530-570	P2
102	male	19-28	cremation	1	1	glass	B	Europe	480-610	P1-P3
105	?	20-40	cremation	1	1	glass	B	Europe	480-610	P1-P3
112	?	?	cremation	1	1	glass	E	Egypt	530-570	P2

Appendix 4.2: Table S2

Table S2 Summary of the reduced compositions with the average reduced composition for each colour and type of bead in the assemblage based on the LA-ICP-MS results from the beads from Lent.

Colour	type	Na2O*	MgO*	Al2O3*	SiO2*	P2O5*	K2O*	CaO	Fe2 O3	which beads
		18.26 ± 1.07	1.18 ± 0.09	3.06 ± 0.79	66.71 ± 0.36	0.22 ± 0.09	0.85 ± 0.13	8.71 ± 0.57	1a	G20B30; G20B32; G20B36; G40B81
		3.16 ± 1.36	0.53 ± 0.03	13.16 ± 0.72	75.71 ± 1.51	0.79 ± 0.19	3.42 ± 0.59	2.22 ± 0.52	1a	
		18	0.39 ± 0.03	12.57 ± 0.85	63.84 ± 1.04	0.95 ± 0.31	2.59 ± 0.28	0.66 ± 0.08	1a	G13B42; G13B52; G40B71; G40B64; G43B34; G43B57; G43/2B3 and G43/2B30
		0.55 ± 0.17	0.47 ± 0.03	15.28 ± 1.05	77.59 ± 1.19	1.16 ± 0.38	3.14 ± 0.34	0.80 ± 0.10	1a	G40B68; G43B30; G43B19; G43B31; G53B43; G53B59; G53B66; G26/1B6; G26/1B8; G26/1B11; G26/1B12; G26/2B1; G26/2B2; G26/2B3;
	B1.1-01a	18	0.45 ± 0.02	11.12 ± 0.53	63.99 ± 0.95	0.67 ± 0.17	2.89 ± 0.74	1.89 ± 0.47	1a	
	B1.1-01b	17.06 ± 1.71	0.75 ± 0.19	2.48 ± 0.34	69.73 ± 2.33	0.11 ± 0.04	0.74 ± 0.14	8.51 ± 1.23	0.61 ± 0.29	G9B1; G13B29; G13B64; G16B10; G16B17; G20B2; G28B21; G28B81; G28B101; G28B102; G42B23; G50B19; G5B45; G5B55; G5B9
	B10	16.95 ± 0.33	1.05 ± 0.12	2.81 ± 0.08	68.47 ± 0.46	0.17 ± 0.06	0.80 ± 0.04	8.75 ± 0.70	1a	G51B11 (2x); G41B9
	B5.4-02	14.9	1.08	3.88	69.41	0.43	1.22	8.08	1a	G51B15 (2x)
	B5.7-01c?	17.25	0.95	2.76	68.32	0.14	0.83	8.75	1a	G42B14
Black	G1.3-02	19.25	0.74	2.63	68.67	0.08	0.5	7.13	1a	G51B40
	A1.2-01	12.94 ± 0.10	3.69 ± 0.01	2.27 ± 0.02	68.69 ± 0.01	0.26 ± 0.00	2.46 ± 0.02	8.68 ± 0.10	1a	G20B8; G20B12; G20B57
	A1.3-01	19.43	1.19	2.92	65.91	0.14	0.76	8.64	1a	G36B10
blue	A3.1-01b	17.92 ± 2.41	1.45 ± 0.25	3.57 ± 1.64	69.25 ± 0.12	0.46 ± 0.21	1.22 ± 0.39	5.13 ± 0.07	1a	G43B28 (2x); G43B47

	A3.2-01	*19.33*	*0.93*	*2.72*	*67.79*	*0.09*	*0.74*	*7.39*	*1a*	*G53B58; G43/2B31*
	A3.4-01a	*17.65 ± 0.43*	*1.20 ± 0.07*	*2.78 ± 0.09*	*67.38 ± 0.20*	*0.14 ± 0.01*	*0.80 ± 0.03*	*9.06 ± 0.15*	*1a*	*G36B5; G36B7; G20B18*
	B1.1-06a	*15.98 ± 2.75*	*0.64 ± 0.20*	*2.52 ± 0.07*	*70.88 ± 1.83*	*0.11 ± 0.03*	*0.88 ± 0.26*	*8.11 ± 1.19*	*0.87 ± 0.12*	*G20B22; G20B25; G20B90; G43B25; G13/2B18*
	B1.1-06b	*17.03 ± 2.09*	*0.68 ± 0.25*	*2.46 ± 0.15*	*70.55 ± 2.23*	*0.09 ± 0.04*	*0.73 ± 0.24*	*7.62 ± 1.13*	*0.84 ± 0.16*	*G34B3; G34B4; G34B16; G34B23; G34B26; G34B28; G34B32; G34B35; G34B40; G34B41; G34B92; G5B10; G5B60; G9B11; G16B7; G16B12; G16B23 (2x); G28B8; G28B11; G28B12; G28B72; G35B7; G35B31; G40B6; G13B9; G20B49; G20B75; G40B16; G40B69; G41B12; G41B14; G41B17; G42B21; G43B48; G45B2; G34/2B1; G34/2B5*
	B1.1-07	*16.23 ± 1.59*	*0.73 ± 0.23*	*2.38 ± 0.57*	*69.84 ± 1.92*	*0.13 ± 0.02*	*0.77 ± 0.17*	*8.96 ± 1.25*	*0.95 ± 0.08*	*G5B44; G28B34; G28B36 (2x); G51B16; G13/2B6*
	B1.1-11a	*16.077*	*0.556*	*2.59*	*71.541*	*0.172*	*0.78*	*7.764*	*0.519*	*G40B105*
	B1.1-12	*16.80 ± 1.15*	*0.73 ± 0.15*	*2.68 ± 0.07*	*70.38 ± 0.63*	*0.11 ± 0.01*	*0.68 ± 0.00*	*7.84 ± 1.19*	*0.77 ± 0.40*	*G51B8; G35/2B1 (2x)*
	B1.5-02a	*16.37 ± 0.37*	*0.39 ± 0.01*	*2.47 ± 0.10*	*71.35 ± 0.15*	*0.07 ± 0.00*	*1.86 ± 0.42*	*6.48 ± 0.16*	*1a*	*G34B99 (6x)*
	B1.5-02b	*19.84*	*0.6*	*2.21*	*70.35*	*0.04*	*0.51*	*5.68*	*0.77*	*G35B16*
	B6.1-01d	*19.71*	*0.78*	*2.33*	*68.53*	*0.06*	*0.55*	*7.07*	*0.97*	*G2B26; G2B34*
	C1.4-01	*19.04 ± 2.56*	*0.70 ± 0.08*	*2.32 ± 0.09*	*68.64 ± 1.64*	*0.05 ± 0.02*	*0.97 ± 0.59*	*7.31 ± 1.43*	*0.97 ± 0.06*	*G35B11; G42B5; G42B22; G53B19*
	C2	*19.18 ± 0.62*	*0.71 ± 0.11*	*2.32 ± 0.14*	*70.18 ± 0.94*	*0.07 ± 0.06*	*0.67 ± 0.13*	*6.01 ± 0.43*	*0.87 ± 0.11*	*G40B13; G40B32; G55B4; G5B63; G5B66*

	C3.3-01	19.95 ± 0.35	0.89 ± 0.14	2.23 ± 0.17	68.22 ± 0.38	0.04 ± 0.00	0.48 ± 0.03	7.31 ± 0.18	0.89 ± 0.20	G23B3; G23B27; G42B10; G42B19; G40B104
	D	18.25 ± 1.71	0.54 ± 0.10	2.33 ± 0.29	70.21 ± 1.18	0.09 ± 0.05	0.69 ± 0.32	6.93 ± 0.99	0.97 ± 0.06	G40B118; G36B1; G36B8; G40B95; G51B39
	E1.1	18.45 ± 1.16	1.11 ± 0.22	2.78 ± 0.34	66.89 ± 1.30	0.18 ± 0.08	1.00 ± 0.23	8.58 ± 1.02	1a	G21B1; G35B15 (2x); G35B36 (2x); G21B6; G21B7; G35B17 (2x)
	E1.2	17.87 ± 1.26	1.05 ± 0.22	2.77 ± 0.22	67.97 ± 1.45	0.14 ± 0.06	1.20 ± 0.72	8.04 ± 1.25	0.97 ± 0.11	G5B34 (2x); G5B19 (2x); G13B20; G5B27; G5B31; G5B61; G43B12; G43B42; G5B4; G5B53; G4B58 (2x); G5B41 (2x)
	E2	19.54 ± 0.52	0.84 ± 0.20	2.38 ± 0.30	68.38 ± 1.45	0.07 ± 0.04	0.66 ± 0.18	7.18 ± 1.09	0.96 ± 0.14	G13B19 (2x); G20B43; G9B8 (2x); G9B21 (2x); G13B1; G40B65; G50B9 (2x); G13B30
	G1.2-01c	19.83	1.1	2.77	65.86	0.12	0.73	8.6	1a	G23B16; G23B20
	G1.2-05	7.57	0.28	1.46	85.46	0.06	1.91	2.83	0.43	G40B19 (2x)
blue-green; green-blue	A1.2	14.86	3.96	2.3	67.31	0.22	2.45	8.14	0.77	G40B89; G20B14
	A1.3-04	16.46	0.59	2.72	70.97	0.16	1.02	7.26	0.83	G16B5
	A2.1-04	17.20 ± 1.09	1.25 ± 0.20	2.37 ± 0.11	67.31 ± 0.74	0.31 ± 0.12	1.12 ± 0.29	9.53 ± 0.91	0.91 ± 0.10	G9B5; G40B57; G40B88; G40B127; G50B7
	A3.6	20.11 ± 0.19	0.75 ± 0.02	2.18 ± 0.11	69.06 ± 0.39	0.04 ± 0.00	0.45 ± 0.01	6.75 ± 0.14	0.66 ± 0.02	G26/2B5; G26/2B10; G26/2B14
	B1.1-?	17.21	1.25	3.03	68.33	0.2	0.93	8.06	1a	G16B26
	B1.1-01b (?)	19.28	0.9	2.74	68.95	0.07	0.58	6.48	1a	G5B9
	B1.1-11a	14.24	0.44	1.16	73.22	0.13	0.5	9.66	0.66	G20B47
	B1.6-01e	17.37 ± 0.49	1.21 ± 0.08	2.93 ± 0.22	68.65 ± 0.15	0.19 ± 0.02	0.90 ± 0.02	7.74 ± 0.08	1a	G27B2; G27B4; G43B46
	C3.3-01	21.24	0.91	2.18	67.12	0.14	0.4	7.32	0.68	G42B10; G42B19

	D1	*16.56 ± 1.82*	*1.35 ± 0.67*	*2.29 ± 0.05*	*68.77 ± 1.85*	*0.44 ± 0.31*	*1.45 ± 0.65*	*8.16 ± 1.96*	*0.97 ± 0.04*	*G40B20; G40B43; G16B19*
brown	*E2.1*	*19.30 ± 1.12*	*1.21 ± 0.03*	*2.53 ± .02*	*66.26 ± 0.79*	*0.15 ± 0.03*	*0.85 ± 0.16*	*8.79 ± 0.29*	*0.90 ± 0.05*	*G5B15; G5B56; G40B65*
	A3.1-07	*17.59 ± 0.95*	*1.32 ± 0.12*	*2.69 ± 0.15*	*67.13 ± 1.34*	*0.24 ± 0.06*	*1.03 ± 0.14*	*9.03 ± 0.73*	*0.98 ± 0.04*	*G21B9; G13B43; G13B72; G40B94; G40B96; G40B101; G53B14; G55B5; G43/2B28*
	A3-rest	*0.951220279*	*0.11799665*	*0.14997465*	*1.335883926*	*0.059261599*	*0.142547267*	*0.728585064*	*0.043860156*	*G20B9; G20B59; G43/2B2*
	A4.1-01	*17.15 ± 1.03*	*1.13 ± 0.14*	*2.65 ± 0.12*	*68.63 ± 1.07*	*0.12 ± 0.04*	*0.72 ± 0.13*	*8.64 ± 0.65*	*0.95 ± 0.10*	*G13B26 (2x); G13B40 (2x); G20B4 (2x); G36B2 (3x)*
	A4.2-01	*17.51 ± 0.89*	*1.18 ± 0.13*	*2.77 ± 0.34*	*67.95 ± 0.89*	*0.15 ± 0.04*	*0.89 ± 0.20*	*8.58 ± 0.86*	*0.96 ± 0.07*	*G34B30 (2x); G34B61 (2x); G2B13 (2x); G2B13 (2x); G34B73; G2B15 (2x); G13B4 (2x); G13B44 (2x); G40B37 (2x); G40B44 (2x); G43B10 (3x); G43B33 (2x); G43B38 (2x); G53B23; G53B60; G53B68 (3x); G23/1B47 (2x); G26/1B55 (2x); G43/2B26 (2x); G43/2B27 (2x); G43B38; G26/1B47 (2x); G26/1B55 (2x); G53B23; G53B26 (3X)*
	A4.3-01a	*16.76*	*1.13*	*2.69*	*68.92*	*0.12*	*0.73*	*8.68*	*0.97*	*G2B45; G2B47*
	B1.1-11a	*15.65 ± 0.09*	*0.45 ± 0.01*	*2.68 ± 0.07*	*72.28 ± 0.24*	*0.14 ± 0.02*	*0.47 ± 0.02*	*8.02 ± 0.21*	*0.32 ± 0.02*	*G34B5; G34B6; G34B8; G34B11; G34B21; G34B78; G34B80; G34B81; G34B83*
	B10.1-2	*18.57*	*0.49*	*2.1*	*71.52*	*0.04*	*0.51*	*6.19*	*0.59*	*G51B11; G51B29*
	B5.7-01?	*18.53*	*0.45*	*1.88*	*72.21*	*0.03*	*0.48*	*5.96*	*0.46*	*G28B35*
	B6.1-?	*17.1*	*0.5*	*2.69*	*70.11*	*0.1*	*0.75*	*8.44*	*0.31*	*G35B4*
	G1.2-01c	*19.81*	*1.16*	*2.73*	*65.83*	*0.14*	*0.74*	*8.58*	*1a*	*G23B16; G23B20*
Colourless	*E2.1-03?*	*19.76*	*1.12*	*2.49*	*66.42*	*0.17*	*0.86*	*8.18*	*1a*	
Green	*A1.1-01*	*17.45*	*2.29*	*5.66*	*66.41*	*0.15*	*2.05*	*5.01*	*0.99*	*G40B66; G53B64*

	A1.2-04	*14.54*	*3.84*	*2.58*	*67.55*	*0.26*	*2.41*	*7.86*	*0.95*	*G40B110; G40B125*
	A2.1-04	*17.07 ± 1.17*	*1.36 ± 0.20*	*2.48 ± 0.20*	*66.20 ± 1.17*	*0.39 ± 0.22*	*1.43 ± 0.44*	*10.08 ± 0.97*	*0.98 ± 0.04*	*G13B18; G13B71; G13B77*
	A3.1-04a	*19.04 ± 1.61*	*0.87 ± 0.16*	*2.43 ± 0.21*	*69.73 ± 0.61*	*0.08 ± 0.05*	*0.61 ± 0.14*	*6.44 ± 0.89*	*0.80 ± 0.15*	*G53B46; G53B51; G53B60; G13/2B22*
	A3.1-04b	*19.02 ± 2.06*	*0.95 ± 0.42*	*3.06 ± 0.83*	*67.95 ± 1.15*	*0.16 ± 0.23*	*0.80 ± 0.56*	*7.29 ± 1.64*	*0.76 ± 0.16*	*G43B4; G43B11; G43B29 (2x)*
	B1.1-08c	*15.94*	*0.66*	*3.49*	*70.5*	*0.15*	*0.81*	*7.52*	*0.92*	*G16B6*
	B1.1-08d	*16.68 ± 1.34*	*0.71 ± 0.22*	*3.18 ± 0.63*	*70.18 ± 1.15*	*0.17 ± 0.08*	*0.81 ± 0.20*	*7.28 ± 0.91*	*0.98 ± 0.04*	*G34B7; G34B33 (2x); G34B43; G34B51; G34B98; G5B48; G5B51; G13B12; G16N4; G16B20 (2x); G35B19; G35B29; G35B41; G50B8*
	B1.1-11?	*18.94 ± 0.40*	*0.94 ± 0.05*	*2.38 ± 0.15*	*67.65 ± 1.30*	*0.08 ± 0.01*	*0.60 ± 0.07*	*8.54 ± 0.71*	*0.88 ± 0.12*	*G34B14; G23B9; G23B23*
	B1.14-?	*16.16 ± 0.83*	*1.86 ± 1.07*	*3.91 ± 1.88*	*68.16 ± 1.90*	*0.70 ± 0.50*	*1.36 ± 0.55*	*6.97 ± 0.98*	*0.89 ± 0.18*	*G13B39; G13B53 (2x)*
	B1.8-01	*18.03*	*1.1*	*2.59*	*67.21*	*0.17*	*0.86*	*9.04*	*1a*	*G50B16*
	B10.1-02a	*14.3*	*0.8*	*4.2*	*70.08*	*0.14*	*0.88*	*8.83*	*0.77*	*G41B15*
	B12.1-03	*16.96*	*1.21*	*2.62*	*68.22*	*0.15*	*0.88*	*8.96*	*1a*	*G20/2B1*
	B2.1-01a	*18.25*	*0.88*	*2.67*	*68.82*	*0.1*	*0.79*	*7.52*	*0.96*	*G35B28; G35B40*
	B6.1-?	*18.3*	*1.31*	*3.46*	*63.79*	*0.09*	*1.12*	*10.92*	*1a*	*G51B37*
	B6.1-01d	*19.86*	*0.64*	*1.83*	*70.46*	*0.03*	*0.43*	*6.22*	*0.53*	*G2B36; G2B34*
	B7	*17.37 ± 0.74*	*0.95 ± 0.13*	*3.70 ± 0.40*	*68.32 ± 0.67*	*0.17 ± 0.02*	*0.82 ± 0.08*	*7.67 ± 0.69*	*1a*	*G5B11; G5B54; G27B1*

	C1.4-02	21.34	0.73	2.05	68.34	0.04	0.42	6.48	0.6	G13B14
	C2.1-02b	17.92	0.62	2.28	72.04	0.04	1.07	5.4	0.64	G5B63; G5B66
	C2.2-03	19	1.7	2.46	65.75	0.34	1.5	8.25	1a	G53B22; G53B31
	C3	21.00 ± 0.79	0.75 ± 0.13	2.26 ± 0.11	68.13 ± 1.12	0.04 ± 0.01	0.45 ± 0.06	6.78 ± 0.63	0.59 ± 0.04	G5B24; G5B35; G23B3; G40B53
	D1.1-02	21.73	0.62	1.99	68.48	0.03	0.4	6.21	0.55	G13B16; G13B73
	D1.5?	18.77	0.83	2.32	68.99	0.13	0.69	7.27	1a	G40B36; G40B60
	E1.2	18.11 ± 0.90	1.22 ± 0.08	2.66 ± 0.10	67.22 ± 1.07	0.20 ± 0.06	1.00 ± 0.11	8.60 ± 0.29	0.99 ± 0.02	G5B42; G5B32; G5B27; G5B31; G5B61; G43B12; G43B42; G5B4; G5B53; G5B58; G5B41
	E2-3	18.97 ± 0.90	1.13 ± 0.06	2.61 ± 0.14	66.32 ± 0.55	0.16 ± 0.01	0.99 ± 0.29	8.82 ± 0.57	1a	G13B19 (2x); G13B1; G20B48; G5B15; G5B56; G21B4; G13/2B4
	G1.2-01c	19.65	0.73	2.1	69.57	0.05	0.49	6.79	0.62	G23B16; G23B20
	A2.1-02	13.00 ± 0.30	2.42 ± 0.04	3.12 ± 0.21	64.20 ± 0.14	0.89 ± 0.03	2.27 ± 0.10	13.11 ± 0.22	1a	G5B25; G5B70 (2x)
Orange	D1.2	13.71 ± 1.14	2.51 ± 0.46	2.89 ± 0.57	65.09 ± 1.80	0.98 ± 0.25	2.60 ± 0.66	11.22 ± 1.10	1a	G13B58; G13B68; G40B42; G40B47; G40B76
	B1.1-08d	13	0.76	3.64	71.87	1.53	0.91	7.28	1a	G34B7
	B1.1-09b	18.15	0.59	2.39	70.52	0.07	0.7	7.16	0.42	G34B85
purple	B?	18.01 ± 0.76	0.58 ± 0.07	2.65 ± 0.20	69.32 ± 1.78	0.08 ± 0.01	0.67 ± 0.08	8.22 ± 0.99	0.46 ± 0.17	G5B3; G5B21; G5B40; G13B21; G13B61
Red	A2.1	12.96 ± 2.84	2.78 ± 0.70	3.05 ± 1.15	63.95 ± 1.41	1.08 ± 0.52	2.95 ± 1.39	12.23 ± 2.12	1a	G5B25 (3x); G5B37; G5B47; G5B67; G16B14

	A3.1-07	*17.66 ± 1.33*	*1.31 ± 0.12*	*2.93 ± 0.22*	*66.57 ± 0.86*	*0.42 ± 0.08*	*1.33 ± 0.16*	*8.79 ± 0.55*	*1a*	*G21B9; G13B43; G13B72; G40B94; G40B96; G40B101; G53B14; G55B5; G43/2B28; G43/2B4; G43/2B5*
	A3.4-05	*17.55*	*1.34*	*2.99*	*66.19*	*0.55*	*1.43*	*8.95*	*1a*	*G40B14*
	A3.5-03	*16.28*	*1.34*	*3.11*	*67.15*	*0.49*	*1.23*	*9.4*	*1a*	*G36B9*
	B1.1-03b	*16.02 ± 1.32*	*0.80 ± 0.23*	*3.54 ± 0*	*70.18 ± 1.51*	*0.26 ± 0.12*	*0.96 ± 0.30*	*7.22 ± 0.84*	*1a*	*G1B1; G1B9; G5B13; G5B20; G13B13; G13B18; G16B3; G16B9; G20B53 (2x); H20B88; G35B34; G35B37; G40B103; G40B120; G42B2; G50B5; G50B13; G51B19; G53B21; G53B36*
	B1.1-03c	*16.42 ± 0.80*	*0.76 ± 0.17*	*3.40 ± 0.56*	*70.14 ± 1.18*	*0.19 ± 0.05*	*0.85 ± 0.18*	*7.23 ± 0.65*	*1a*	*G21B8 (2x); G34B2; G34B12; G34B13 (2x); G34B24; G34B31 (2x); G34B46; G34B79; G1B7; G2B22; G2B23; G5B7; G9B3; G9B13; G23B12; G23B15; G28B3; G28B6; G28B10; G28B16; G41B2; G41B4; G42B7; G43B14; G43B45; G50B14; G51B10; G51B25; G52B1; G52B2; G105B1*
	B1.1-03d	*17.16 ± 1.34*	*0.83 ± 0.10*	*3.62 ± 0.53*	*69.70 ± 0.51*	*0.18 ± 0.05*	*0.82 ± 0.15*	*6.68 ± 0.70*	*1a*	*G21B2; G9B9; G9B19; G51B18*
	B1.1-08d	*12.77*	*0.7*	*3.11*	*74.28*	*1.16*	*0.99*	*5.99*	*1a*	*G34B7; G34B51*
	B1.6-01b	*16.96 ± 0.68*	*1.24 ± 0.09*	*3.11 ± 0.19*	*68.55 ± 0.43*	*0.24 ± 0.07*	*1.02 ± 0.06*	*7.88 ± 0.39*	*1a*	*G27B3; G27B5 (6x), G27B6; G43B9; G43B41; G53B16; G53B35*
	B10.1-02	*17.52 ± 1.34*	*0.86 ± 0.20*	*3.18 ± 0.42*	*68.65 ± 2.05*	*0.16 ± 0.03*	*0.89 ± 0.11*	*7.74 ± 0.58*	*1a*	*G35B6; G51B11; G51B29 (2x); G41B9; G41B10; G41B15 (2x); G41B16; G41B19*
	B11.1-01	*15.78*	*0.55*	*2.78*	*71.45*	*0.16*	*0.75*	*7.53*	*1a*	*G28B45*
	B11.1-06	*17.24*	*0.82*	*3.16*	*69.35*	*0.15*	*0.83*	*7.44*	*1a*	*G51B33 (2x)*
	B11.3-01e	*18.57*	*1.02*	*2.57*	*67.68*	*0.18*	*0.87*	*8.12*	*1a*	*G2B1*
	B11.3-02a	*16.14 ± 0.50*	*0.67 ± 0.07*	*3.17 ± 0.23*	*70.98 ± 0.62*	*0.20 ± 0.02*	*0.79 ± 0.05*	*7.05 ± 0.55*	*1a*	*G2B1; G34B1; G20B3; G20B89; G28B1; G28B9; G28B43; G28B60; G28B62; G41B23*

	B3.2	*17.05 ± 0.32*	*1.13 ± 0.04*	*3.17 ± 0.47*	*68.89 ± 0.44*	*0.20 ± 0.01*	*1.03 ± 0.03*	*7.54 ± 0.57*	*1a*	*G53B12; G43/2B16; G53B15; G53B47; G53B61*
	B4	*15.76*	*0.83*	*3.75*	*70.26*	*0.19*	*1.14*	*7.07*	*1a*	*G43B23; G23B17; G23B19*
	B5.2	*16.20 ± 0.74*	*0.74 ± 0.21*	*3.38 ± 0.83*	*70.41 ± 1.01*	*0.18 ± 0.02*	*0.86 ± 0.26*	*7.22 ± 0.52*	*1a*	*G20B1; G28B61; G28B88; G43B6; G43B43; G20B91; G28B39; G28B44; G28B59; G42B16; G41B6; G41B8; G41B21*
	B5.7	*15.74 ± 1.11*	*0.86 ± 0.24*	*4.01 ± 1.65*	*70.08 ± 1.02*	*0.32 ± 0.19*	*1.05 ± 0.37*	*6.95 ± 0.65*	*1a*	*G51B32; G51B1; G28B35; G41B18; G42B14*
	B6	*17.25 ± 1.06*	*0.96 ± 0.35*	*3.13 ± 0.33*	*68.35 ± 2.42*	*0.25 ± 0.04*	*0.91 ± 0.13*	*8.14 ± 1.03*	*1a*	*G35B4; G2B26; G2B34; G2B49*
	B7	*17.22 ± 0.81*	*0.92 ± 0.20*	*3.20 ± 0.28*	*68.84 ± 1.23*	*0.28 ± 0.32*	*0.88 ± 0.18*	*7.66 ± 0.73*	*1a*	*G34B37; G5B11; G51B17; G51B36; G5B54; G35B2; G35B3*
	C	*16.16 ± 0.60*	*1.37 ± 0.04*	*3.12 ± 0.19*	*66.84 ± 0.60*	*0.43 ± 0.05*	*1.74 ± 0.44*	*9.36 ± 0.29*	*1a*	*G40B13; G40B32; G55B4; G53B22; G53B31; G5B24; G5B35*
	D1.2	*13.41 ± 1.51*	*2.76 ± 0.30*	*2.24 ± 0.21*	*64.43 ± 1.16*	*1.12 ± 0.21*	*3.13 ± 0.77*	*11.91 ± 0.71*	*1a*	*G5B43; G40B47; G40B56; G13B81; G40B18; G40B27; G40B38; G40B52; G40B52; G40B55; G40B77*
	E1.1	*17.39 ± 2.08*	*1.30 ± 0.18*	*2.97 ± 0.36*	*66.46 ± 0.53*	*0.48 ± 0.09*	*1.61 ± 0.64*	*8.79 ± 0.61*	*1a*	*G35B15 (2x); G35B36 (2x); G21B6 (2x); G35B17 (2x)*
	E1.2	*16.33 ± 0.97*	*1.35 ± 0.14*	*3.12 ± 0.33*	*67.35 ± 0.96*	*0.40 ± 0.18*	*1.58 ± 0.52*	*8.88 ± 0.71*	*0.99 ± 0.03*	*G5B34 (3x); G5B19 (3x); G5B42 (4x); G5B32 (4x); G13B20 (2x); G5B27; G5B31 (2x); G5B61; G43B12 (2x); G43B42; G5B4 (3x); G5B53 (3x); G5B58 (4x); G5B41 (3x)*
	E2	*17.71 ± 1.41*	*1.29 ± 0.13*	*2.88 ± 0.43*	*66.46 ± 0.61*	*0.37 ± 0.12*	*1.28 ± 0.31*	*9.02 ± 0.43*	*0.99 ± 0.02*	*G13B19; G20B43 (4x); G9B8 (2x); G9B21 (2x); G13B1 (3x); G20B48 (5x); G40B65 (2x); G50B9 (3x); G5B15 (4x); G5B56 (2x); G21B4 (2x); G13B30 (2x)*
	G1.2-01c	*20.44*	*1.08*	*2.61*	*65.48*	*0.39*	*0.88*	*8.12*	*1a*	*G23B16; G23B20*
White	*B1.1-04a*	*18.21 ± 1.06*	*0.69 ± 0.09*	*2.40 ± 0.28*	*70.25 ± 0.60*	*0.09 ± 0.03*	*0.62 ± 0.08*	*6.98 ± 0.62*	*0.75 ± 0.19*	*G13B24; G13B41; G16B8; G16B22; G16B25; G23B26; G36B11; G40B62*

	B1.1-04b	*18.28 ± 0.73*	*0.80 ± 0.49*	*2.33 ± 0.28*	*70.49 ± 1.53*	*0.09 ± 0.08*	*0.54 ± 0.10*	*6.77 ± 0.90*	*0.70 ± 0.20*	*G34B18 (2x); G34B22 (7x); G34B34; G34B49; G34B89 (2x); G9B16; G16B13; G16B15; G40B7; G41B7; G42B17; G45B1; G51B21; G51B23*
	B1.1-06b	*16.73*	*0.65*	*2.76*	*69.66*	*0.09*	*0.73*	*8.37*	*1a*	*G5B60*
	B1.1-12c	*17.48*	*0.75*	*2.55*	*70.49*	*0.1*	*0.67*	*6.95*	*1a*	*G35/2B1*
	B1.6-01c	*17.41*	*1.17*	*2.87*	*68.55*	*0.17*	*0.99*	*7.84*	*1a*	*G43B8; G43B24; G53B28*
	B1.7-02 (?)	*16.74*	*0.72*	*2.73*	*70.63*	*0.19*	*0.83*	*7.29*	*0.86*	*G13B7*
	B10.1-02b?	*18.87*	*0.49*	*1.9*	*71.63*	*0.02*	*0.44*	*6.15*	*0.51*	*G41B19*
	B11.3-01e	*16.4*	*0.51*	*2.54*	*71.81*	*0.12*	*0.59*	*7.53*	*0.51*	*G2B1*
	B11.9-?	*18.75*	*1.03*	*2.65*	*67.59*	*0.1*	*0.87*	*8.02*	*1a*	*G51B13*
	B12.1	*17.90 ± 0.18*	*0.88 ± 0.21*	*2.37 ± 0.25*	*69.65 ± 0.92*	*0.09 ± 0.01*	*0.66 ± 0.05*	*7.60 ± 0.79*	*0.85 ± 0.08*	*G13/2B3; G20/2B1; G34/4B1 (2x)*
	B2-4	*18.53 ± 0.87*	*0.97 ± 0.14*	*2.55 ± 0.21*	*68.85 ± 0.45*	*0.10 ± 0.05*	*0.75 ± 0.21*	*7.33 ± 0.77*	*0.92 ± 0.12*	*G35B28; G35B40; G53B15; G23B17; G23B19*
	B5	*17.42 ± 0.84*	*0.83 ± 0.30*	*2.55 ± 0.36*	*69.39 ± 1.91*	*0.09 ± 0.03*	*0.74 ± 0.15*	*8.05 ± 1.55*	*0.94 ± 0.16*	*G13B11; G51B15; G51B32; G51B1; G41B18; G35B5*
	B6	*19.1*	*1.66*	*2.4*	*67.58*	*0.09*	*0.65*	*7.8*	*0.71*	*G51B37; G35B14*
	B7	*18.62 ± 0.98*	*1.73 ± 1.09*	*2.40 ± 0.33*	*68.02 ± 0.82*	*0.13 ± 0.07*	*0.72 ± 0.08*	*7.46 ± 0.61*	*0.91 ± 0.12*	*G34B37 (2x); G5B11; G35B2; G35B3*
	C	*18.40 ± 1.04*	*1.15 ± 0.03*	*2.40 ± 0.37*	*68.32 ± 1.69*	*0.13 ± 0.07*	*0.85 ± 0.35*	*7.95 ± 1.21*	*0.80 ± 0.26*	*G40B10; G40B13; G40B32; G55B4*
	D	*18.3*	*1.47*	*1.82*	*71.36*	*0.02*	*0.43*	*6.17*	*0.42*	*G40B8; G40B11*

	E1.1	*17.29 ± 0.75*	*1.80 ± 1.29*	*2.43 ± 0.29*	*67.64 ± 1.30*	*0.15 ± 0.07*	*1.18 ± 0.50*	*8.70 ± 0.95*	*0.82 ± 0.21*	*G21B1 (2x); G35B15 (2x); G35B36; G21B6; G21B7; G35B17 (2x)*
	E1.2	*17.74 ± 0.85*	*1.18 ± 0.09*	*2.75 ± 0.20*	*67.57 ± 0.99*	*0.19 ± 0.04*	*1.01 ± 0.21*	*8.60 ± 0.35*	*0.96 ± 0.05*	*G5B34; G5B42; G5B19 (3x); G5B32; G13B20; G5B27; G5B31; G5B61; G43B12; G43B42; G5B4; G5B53; G5B58*
	E2-3	*18.99 ± 0.67*	*1.14 ± 0.09*	*2.59 ± 0.09*	*66.46 ± 0.64*	*0.15 ± 0.02*	*0.86 ± 0.11*	*8.87 ± 0.37*	*0.93 ± 0.06*	*G20B43; G9B8; G9B21; G13B1; G20B48; G40B65 (2x); G5B15; G5B56; G21B4; G13B30 (2x); G13/2B4*
	G1.2-01c	*18.91*	*1.15*	*2.68*	*66.12*	*0.15*	*0.8*	*9.24*	*0.96*	*G23B16; G23B20*
	A4.3-01a	*17.64*	*1.12*	*2.68*	*68.18*	*0.11*	*0.78*	*8.53*	*0.95*	*G2B45; G2B47*
	B1.1.-11b	*18.65*	*1.02*	*2.46*	*67.85*	*0.1*	*0.63*	*8.44*	*0.85*	*G23B8; G23B28; G23B30*
	B1.1-02a	*17.57*	*1.21*	*2.94*	*67.79*	*0.19*	*1.04*	*8.27*	*1a*	*G43/2B8; G43/2B9; G43/2B14*
	B1.1-02b	*17.00 ± 0.85*	*0.97 ± 0.24*	*3.30 ± 0.59*	*68.99 ± 1.42*	*0.17 ± 0.06*	*0.76 ± 0.14*	*7.83 ± 0.56*	*0.99 ± 0.05*	*G34B27; G1B2; G1B4; G2B21; G5B6; G5B14; G9B6; G13B6; G13B63; G23B29; G28B26; G28B30; G35B39; G40B2; G40B4; G40B102; G41B3; G41B24; G42B3; G42B6; G50B11; G53B1; G53B27; G43/2B13; G43/2B15*
	B1.1-02c	*16.88 ± 0.91*	*0.82 ± 0.19*	*3.36 ± 0.61*	*69.58 ± 1.12*	*0.22 ± 0.39*	*0.74 ± 0.14*	*7.41 ± 0.52*	*0.98 ± 0.04*	*G34B9; G34B10; G34B19; G2B40; G5B2; G5B52; G9B18; G13B17; G28B14; G28B15; G28B22; G40B85; G40B98; G41B5; G42B1; G42B8; G42B12 (2x); G43B1; G43B15 (2x); G50B10; G51B12; G51B26; G52B6; G53B5; G53B18; G102B1*
	B1.1-02d	*17.75 ± 0.55*	*0.99 ± 0.24*	*3.80 ± 0.58*	*68.49 ± 1.10*	*0.12 ± 0.01*	*0.68 ± 0.07*	*7.17 ± 0.19*	*0.99 ± 0.01*	*G9B10; G51B20; G51B41; G52B3*
	B1.1-06b	*13.22*	*0.39*	*9.36*	*69.73*	*0.07*	*0.48*	*5.97*	*0.79*	*G34B32 (2x)*
Yellow	*B1.1-11b*	*18.26*	*1.35*	*2.67*	*67.02*	*0.15*	*0.78*	*8.85*	*0.93*	*G2B30; G43B20; G43B37*

	B1.1-12b	*16.32*	*1.21*	*2.92*	*69.1*	*0.13*	*0.82*	*8.51*	*1a*	*G51B1; G51B2*
	B1.4-01a	*16.84*	*1.02*	*3.35*	*68.54*	*0.13*	*0.86*	*8.25*	*1a*	*G13B36; G51B5; G51B6*
	B1.5-02b	*17.75*	*1.27*	*2.75*	*68.26*	*0.19*	*0.9*	*7.92*	*0.96*	*G55B1; G55B3*
	B1.5-03a	*20.26*	*1.19*	*2.49*	*65.43*	*0.12*	*0.69*	*8.97*	*0.85*	*G35B9; G13/2B2; G13/2B8*
	B1.5-03b	*18.37*	*1.18*	*2.59*	*67.93*	*0.14*	*0.79*	*8.11*	*0.88*	*G35B18; G43B3*
	B1.5-03c	*16.94*	*0.91*	*2.36*	*68.77*	*0.09*	*0.64*	*9.41*	*0.89*	*G13/2B7*
	B1.6-01b	*1.89*	*0.2*	*10.97*	*83.44*	*0.26*	*1.54*	*0.7*	*1a*	*G27B3*
	B10.1-02	*17.10 ± 1.52*	*0.90 ± 0.14*	*3.80 ± 0.50*	*68.54 ± 1.43*	*0.13 ± 0.03*	*0.79 ± 0.12*	*7.73 ± 0.99*	*1a*	*G35B6; G51B11; G51B29; G41B9; G41B10 (2x); G41B13 (2x) G41B15 (2x); G41B16; G41B19*
	B11-12	*16.81*	*0.86*	*3.1*	*69.51*	*0.14*	*0.7*	*7.89*	*0.98*	*G28B45; G51B33; G2B1; G34B1; G20B3; G20B89; G28B1; G28B9; G2843; G28B60; G28B62; G41B23; G51B13; G13/2B3; G34/4B1*
	B3-4	*17.18 ± 1.04*	*1.10 ± 0.12*	*3.50 ± 0.64*	*68.54 ± 0.93*	*0.17 ± 0.04*	*0.87 ± 0.15*	*7.65 ± 0.68*	*1a*	*G51B28; G53B12; G43/2B16; G53B47; G53B61; G43B23; G23B17; G23B19*
	B5.2-02	*16.41 ± 1.02*	*0.74 ± 0.20*	*3.34 ± 0.41*	*70.16 ± 1.14*	*0.16 ± 0.04*	*0.73 ± 0.09*	*7.47 ± 0.68*	*0.99 ± 0.02*	*G20B1; G28B61; G28B88; G43B6; G43B43; G20B91; G28B39; G28B44; G28B59; G42B16; G41B6; G41B8; G41B21*
	B5.7	*16.02 ± 0.96*	*0.95 ± 0.24*	*3.35 ± 0.63*	*69.25 ± 1.57*	*0.15 ± 0.07*	*0.78 ± 0.11*	*8.53 ± 0.57*	*0.96 ± 0.04*	*G51B32; G51B1; G28B35; G41B18; G42B14*
	B6	*17.87 ± 1.34*	*0.94 ± 0.36*	*2.76 ± 0.39*	*68.45 ± 1.39*	*0.13 ± 0.06*	*0.83 ± 0.18*	*8.16 ± 1.11*	*0.85 ± 0.17*	*G51B3; G51B37 (2x); G2B26; G2B34*
	B7	*16.80 ± 2.54*	*0.95 ± 0.17*	*3.55 ± 0.71*	*68.99 ± 1.54*	*0.35 ± 0.36*	*0.74 ± 0.11*	*7.63 ± 0.84*	*0.98 ± 0.04*	*G5B11; G5B54; G27B1; G51B17; G51B36*

	C	*17.04*	*1.2*	*2.72*	*67.56*	*0.18*	*1.57*	*8.74*	*0.97*	*G53B22; G53B31*
	E1	*17.28 ± 0.67*	*1.24 ± 0.09*	*2.81 ± 0.18*	*67.44 ± 1.23*	*0.18 ± 0.02*	*1.05 ± 0.32*	*9.01 ± 0.95*	*0.98 ± 0.03*	*G35B17; G5B34; G5B42; G5B32; G5B27; G5B31; G5B61; G43B12; G43B42; G5B4; G5B53; G5B58; G5B41*
	E2	*17.99 ± 0.81*	*1.20 ± 0.07*	*2.82 ± 0.35*	*66.92 ± 0.97*	*0.15 ± 0.04*	*0.80 ± 0.10*	*9.12 ± 0.54*	*1a*	*G13B19 (2x); G20B43; G9B8; G9B21; G13B1; G20B48; G50B9 (2x); G5B15; G5B56*
	E3.1-?	*19.11*	*1.08*	*2.57*	*66.69*	*0.18*	*0.8*	*8.57*	*1a*	*G13/2B4*
	G1.3-02	*18.46*	*0.52*	*2.24*	*71.07*	*0.05*	*0.48*	*6.66*	*0.52*	*G51B40*

3.1 Typology

Pion's typology is based on the seriation of over 21.000 beads found in six Merovingian cemeteries from Belgium. It was later adjusted and improved by Vrielynck, Mathis and Pion in 2018. [685] As bead collections from sites across Europe show remarkable similarities, [686] a typology based on early medieval bead collections from Belgium can be applied to early medieval bead sets found in the Netherlands without difficulty. In this typology, each bead-type is dated to one or multiple periods (P1, P2, P3, P4 or P5) within the Merovingian era (table S3). It is structured based on the techniques used to manufacture Merovingian beads, a factor that had not been considered in previous typologies. [687] In Europe only evidence for the production of wound beads has been excavated, whereas other forming techniques were used in the Mediterranean, Egypt, the Levant, the region of modern-day Iraq and Iran, and India. [688]

Table S3 Overview of the bead periods by Pion 2014, with Legoux phases and date-approximation.

Period	Legoux 2004	Date (approximation)
P1	MA1	480-530
P2	MA2	530-570
P3	MA3	560-610
P4	MR1	600-640
P5	MR1/MR2	620-670

3.2 pXRF

X-Ray fluorescence allows determining the major and minor elemental composition of beads. In this research portable XRF (pXRF) was used. In general pXRF is an excellent semi-quantitative analytical tool. Allowing to recognize groups, determine relative abundances of elements, etc. It is usually cheaper than, for example, LA-ICP-MS analysis, and its portable nature means analysis can be performed non-destructively in the field. One of the major drawbacks of pXRF for the analysis of glass is its inability to accurately measure low-Z elements in particular Na and Si which are major elements from the glass. When (p)XRF and LA-ICP-MS analysis of the same objects are performed in the same conditions it is possible to

[685] Vrielynck et al. 2018.
[686] Langbroek 2023.
[687] e.g. Siegmund 1998.
[688] For a detailed discussion on bead techniques and their provenances, see Pion 2014, 178-229 and references therein.

use those to calibrate the full suite of pXRF analysis in order to obtain quantitative results. [689] Since this would not offer more insights in our research questions this was not performed for this article.

The set up used for beads analyses was designed at Liege University by the team of IPNAS (Institut de Physique Nucléaire Atomique et Spectroscopique). The design answers to specific needs regarding archaeological material studies. The set up is light and easy to use in museums or directly in the field. It includes an industrial X-rays generator that powers the X-ray beam and detector. The X-ray beam is produced by a tube type end-window Magnum developed by Moxtek Inc (Orem, USA). The detector is an air-cooled silicon rift detector (SDD) with an active area of 5mm^2 developed by BRUKER (Billerica, Massachusetts, USA). The X-ray source and detector are located on the same support as the power supply. The support was designed and printed for this specific purpose with the 3D printer of the lab. It is fixed on a mobile platform, also made at IPNAS, allowing independent vertical and horizontal movement. The distance between the set up and the sample was fixed to 8mm. In order to target the analysed area and to adjust the distance, two laser diodes are attached to the head. [690] All the movements are controlled by a personal digital assistant (PDA) which exchanges data with micro-controllers integrated into the system allowing accurate positioning of the detector.

For the measurements performed on the beads, objects were placed on a polymer grid printed in the IPNAS laboratory and they were facing the XRF beam that was a size of 1 mm on the sample. It was set to be in action for 60 seconds, at 39 kV, and 120 A. The signal of the detector is amplified and analysed by a multi-channel recorder coupled to a microcomputer running JavaSpectre that allows to visualise and to analyse the obtained spectra. [691] After the measurements peak deconvolution and integration was performed and the number of counts for the mean peak of each element was determined. Those counts are used for the PCA analysis.

3.3 LA-ICP-MS

578 beads from Lent-Lentseveld have been analysed with LA-ICP-MS. Sampling through laser ablation allows both to perform the analysis in a minimally invasive way (the beads remain intact), and to perform spatially resolved analysis (i.e. for polychrome beads a particular colour can be targeted). LA-ICP-MS is an analytical method widely applied in glass research. It allows determining the chemical composition of objects; with its large linear range and low detection limits simultaneous determination of major, minor and trace elements are possible. This is another important difference with XRF analysis, the possibility to measure the lighter elements. This method requires no sample preparation and allows a nearly non-destructive analysis, invisible to the naked eye; it is particularly well adapted to composite or decorated glass objects such as beads. [692]

The analyses of the glass beads were carried out by LA-ICP-MS. The instrumentation consisted of a Resolution M50E UV laser probe from Resonetics/ASI (Eximer ArF laser working at 193 nm equipped

[689] Adlington et al. 2020.
[690] Strivay et.al., 2016.
[691] Hocquet et.al., 2008.
[692] Gratuze 2014 and 2016.

with the S155 cell) coupled with a Thermo Fisher Scientific ELEMENT XR mass spectrometer. [693] This mass spectrometer offers the advantage of being equipped with a three stage detector: a dual mode (counting and analog modes) secondary electron multiplier with a linear dynamic range of over nine orders of magnitude, associated with a single Faraday collector which allows an increase of the linear dynamic range by an additional three orders of magnitude. This feature is particularly important for laser ablation analysis as dilution of the sample is impossible compared to ICP-MS with liquid sample introduction. For glass, it is therefore possible to analyse major, minor, and trace elements in a single run regardless of their concentrations and their isotopic abundance. With the standard analytical protocol, sodium, aluminium, silicon and potassium are systematically analysed with the Faraday collector while dual mode SEM is used for other elements.

The beads are placed inside an ablation cell, where a micro-sample, invisible to the naked eye (diameter < 100 micrometres), is extracted by the laser beam. This sampled material is then carried to the plasma torch of the mass spectrometer by an argon/helium gas flow (1 l/min Ar + 0.65 l/min He) where it is dissociated and ionised by the high temperature of the plasma (8000°C). The different glass constituents are separated according to their mass/charge ratios by the double focussing mass spectrometer and quantified by the electronic detector (secondary electrons multiplier or Faraday cup according to the ion beam intensities).

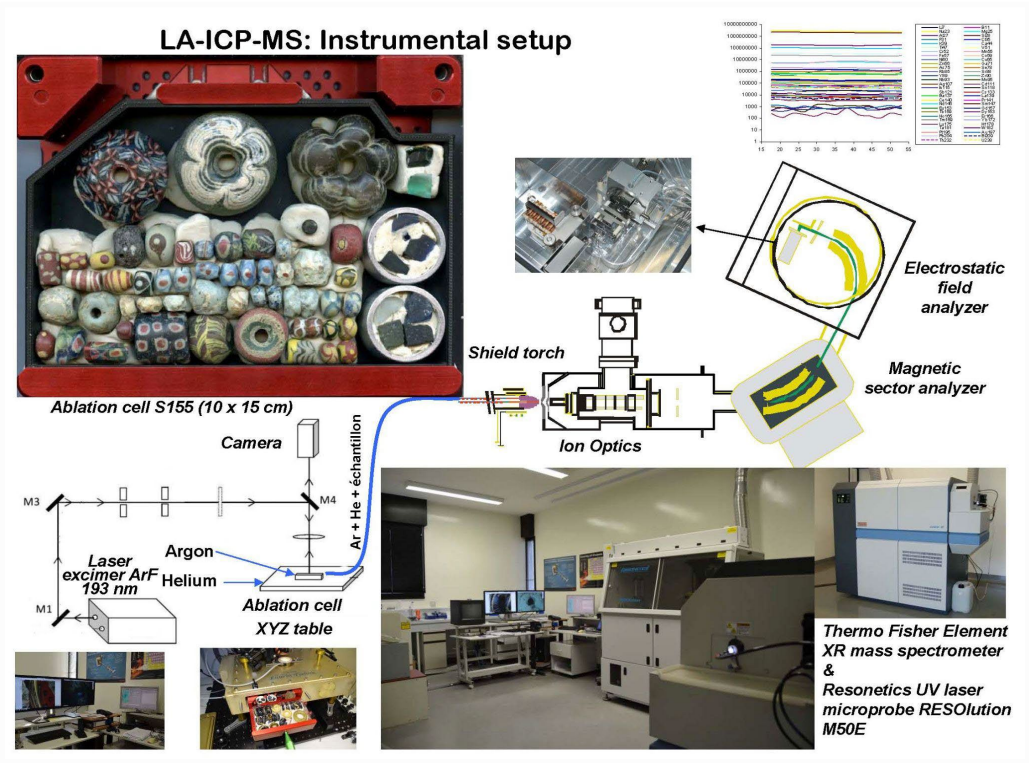

Fig. S3 Instrumental setup of the LA-ICP-MS analyses. Image by B. Gratuze.

Analytical parameters were as follow: the excimer laser was operated at 5.5 mJ with a repetition rate of 10 Hz, ablation time was set to 50 seconds: 20 seconds pre-ablation, so that transient signal and

[693] Gratuze 2016.

possible surface corrosion or contamination could be removed, and 30 seconds collection time corresponding to 9 mass scans from lithium to uranium. The signal was measured in counts/second, in low resolution mode for 58 different isotopes. The fifty-eight elements include all major, minor (except sulphur) and trace elements which are usually present in glass samples. [694] Blanks were run periodically between each series of 20 analyses. Spot sizes were set to 100 µm, but their diameter could be reduced progressively down to 30 µm when saturation occurred for elements such as manganese, copper, tin antimony and lead. During analysis live counts were continuously observed: when element spikes signifying the presence of inclusions were observed, results were discarded and a new site selected. Homogeneity and agreement between runs carried out on the same type of glass were consistently good. To enhance detection limits on opacified glasses, specific analytical menus were tested on white and yellow opacified glasses as well as on red glasses. For some of these glasses, manganese, copper, tin and lead, were analysed with the Faraday collector instead of the dual mode secondary electron multiplier.

Calibration was performed using five reference standards: NIST610, Corning B, C and D, and APL1 (an in-house reference glass used for chlorine determination), were run periodically (every 15 to 20 samples) to correct for eventual drifts. The standards are used to calculate the response coefficient (k) of each element. The measured values were normalised against ^{28}Si, the internal standard. Concentrations are calculated assuming that the sum of the concentrations of the measured elements is equal to 100 weight percent. In total, 58 elements were recorded. For the major and minor elements accuracy and precision were within 5 % relative and within 10 % for most trace elements. In order to validate the obtained concentration results, glass reference standards Corning A and Nist 612 are regularly analysed as unknown samples throughout the analytical sequence. The average values obtained during the analysis for these glasses are presented in the table of results and agree within 5 to 10% with the certified ones.

[694] Gratuze 2016.

Appendix 4.4: Beads per case study

Table S4.1 Overview of the black bead-types, the graves they were found in and the amount of measurements taken with pXRF and LA-ICP-MS featured in this case study.

Grave	***5***	***9***	***13***	***20***	***26***	***28***	***40***	***41***	***42***	***43***	***50***	***51***	***53***	**total**
Type	XRF/MS	XRF/MS	XRF/MS	XRF/MS	XRF/MS	XRF/MS	XRF/MS	XRF/MS	XRF/MS	XRF/MS	XRF/MS	XRF/MS	XRF/MS	**XRF/MS**
B1.1-01a	x	x	3/2	1/0	47/8	x	7/4	x	x	5/4	x	x	5/4	**68/22**
B1.1-01b	3/2	1/1	2/2	x	x	4/4	x	x	1/1	x	1/1	x	x	**12/11**
B1.8-01	x	x	x	5/3	x	x	x	x	x	x	1/0	x	x	**6/3**
B5.4-02	x	x	x	x	x	x	x	x	x	x	x	0/1	x	**0/1**
G1.3-02	x	x	x	x	x	x	x	x	x	x	x	1/1	x	**1/1**

Table S4.2 Overview of the green-blue/blue-green bead-types, the graves they were found in and the amount of measurements taken with pXRF and LA-ICP-MS featured in this case study

Grave	***5***	***9***	***13***	***16***	***20***	***23***	***26***	***27***	***34***	***36***	***40***	***42***	***43***	***50***	***51***	**total**
Type	XRF/MS	XRF/MS	XRF/MS	XRF/MS	XRF/MS	XRF/MS	XRF/MS	XRF/MS	XRF/MS	XRF/MS	XRF/MS	XRF/MS	XRF/MS	XRF/MS	XRF/MS	**XRF/MS**
A1.2-06	x	x	x	x	2/1	x	x	x	x	x	x	x	x	x	x	**2/1**
A2.1-04	x	2/2	3/3	x	x	x	x	x	x	x	6/4	x	x	1/1	x	**12/10**
A3.6	x	x	x	x	x	x	6/3	x	x	x	x	x	x	x	x	**6/3**
B1.1-08d	x	x	x	1/1	x	x	x	x	1/0	x	x	x	x	x	x	**2/1**
B1.6-01e	x	x	x	x	x	x	x	2/2	x	x	x	x	1/1	x	x	**3/3**
B5.7-?	x	x	x	x	x	x	x	x	x	x	x	x	x	x	2/2	**2/2**
C2.1-02b	2/2	x	x	x	x	x	x	x	x	x	x	x	x	x	x	**2/2**
C3.3-01	x	x	x	x	x	1/1	x	x	x	x	2/1	2/2	x	x	x	**5/4**
D1.1-02	x	x	2/2	x	x	x	x	x	x	x	x	x	x	x	x	**2/2**
D1.5-02	x	x	x	1/1	x	x	x	x	x	x	3/3	x	x	x	x	**4/4**

Table S4.3 Overview of the red bead-types, the graves they were found in and the amount of measurements taken with pXRF and LA-ICP-MS featured in this case study.

Grave	***1***	***2***	***5***	***9***	***13***	***16***	***20***	***21***	***23***	***26***	***27***	***28***	***34***	***35***	***36***	***40***	***41***	***42***	***43***	***50***	***51***	***52***	***53***	***55***	***105***	**total**
Type	XRF/ MS	XRF/ MS	XRF/ MS	XRF/ MS	XRF/ MS	XRF/ MS	XRF/ MS	XRF/ MS	XRF/ MS	XRF/ MS	XRF/ MS	XRF/ MS	XRF/ MS	XRF/ MS	XRF/ MS	XRF/ MS	XRF/ MS	XRF/ MS	XRF/ MS	XRF/ MS	XRF/ MS	XRF/ MS	XRF/ MS	XRF/ MS	XRF/ MS	**XRF/ MS**
A2.1-03	x	x	3/3	x	x	1/1	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	**4/4**
A3.1-07	x	x	x	x	2/2	x	x	1/1	x	2/2	x	x	x	x	x	18/3			4/3	x	x	x	1/1	1/1	x	**29/13**
B1.1-03	4/3	7/2	7/3	6/4	6/2	3/2	7/3	2/2	5/3	x	x	46/4	18/10	2/2	x	4/2	3/2	5/2	2/2	3/3	6/4	5/2	10/3	x	0/1	**151/61**
B1.6-01b	x	x	x	x	x	x	x	x	x	x	3/3	x	x	x	x	x	x	x	2/2	x	x	x	2/2	x	x	**7/7**
B3.2-02a	x	x	x	x	x	x	x	x	x	x	x	x	1/0	x	x	x	x	x	0/1	x	x	x	0/3	x	x	**1/4**
B4.2-?	x	x	x	x	x	x	x	x	2/2	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	**2/2**
B5.2-02	x	x	x	x	x	x	2/2	x	x	x	x	5/5	x	x	x	x	3/3	1/1	2/2	x	x	x	x	x	x	**13/13**
B5.7-?	x	x	x	x	x	x	x	x	x	x	x		x	x	x	x	x	x	x	x	1/2	x	x	x	x	**1/2**
B6.1-01d	x	0/2	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	**0/2**
B7.2-01c	x	x	0/1	x	x	x	x	x	x	x	1/1	x	x	x	x	x	x	x	x	x	x	x	x	x	x	**1/2**
B10.1-02?	x	x	x	x	x	x	x	x	x	x	x	x	x	0/1	x	x	0/2	x	x	x	0/2	x	x	x	x	**0/5**
B11.1-02a	x	x	x	x	x	x	2/2	x	x	x	x	5/5	1/1	x	x	x	4/4	x	x	x	x	x	x	x	x	**12/12**
C2?	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	2/2	x	x	x	x	x	x	x	x	x	**2/2**
C2.2-03	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	0/2	x	x	**0/2**
C3.1-01	x	x	1/2	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	**1/2**
D1.2-04?	x	x	x	x	1/1	x	x	x	x	x	x	x	x	x	x	7/8	x	x	x	x	x	x	x	x	x	**8/9**
E1.1	x	x	x	x	x	x	x	0/2	x	x	x	x	x	0/3	x	x	x	x	x	x	x	x	x	x	x	**0/5**
E1.2	x	x	7/11	x	0/1	x	x	x	x	x	x	x	x	x	x	x	x	x	2/2	x	x	x	x	x	x	**9/14**
E2.1	x	x	2/2	2/2	x	x	1/1	x	x	x	x	x	x	x	x	2/1	x	x	x	1/1	x	x	x	x	x	**8/7**
G1.2-01c	x	x	x	x	x	x	x	x	2/2	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	**2/2**

Appendix 4.5: table S5

Table S5 In this table it is documented per grave whether specific bead-types from that grave form one 'chemical group' (green), multiple 'chemical groups' (yellow) or display a 'chemical confetti pattern' (red) in the PCA graphs. Sometimes a '+' is added, to indicate the presence of one or two 'chemical outliers'.

child/ adult	A1.2-06	A2.1-03	A2.1-04	A3.1-07	A3.6	B1.1-01a	B1.1-01b	B1.1-03	B1.6-01b	B1.6-01e	B1.8-01	B4.2-?	B5.2-02	B5.7-?	B6.1-01d	B10.1-02	B11.1-02a	B11+B5	C2.?	C2.1-02b	C3.1-01	C3.3-01	D1.1-02	D1.2-04	D1.5-02	E1.1	E1.2	E2.1	G1.2-01c	Summary
adult	x	x	x	x	x	x	x	group +	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	?
adult	x	x	x	x	x	x	x	group +	x	x	x	x	x	x	group	x	x	x	x	x	x	x	x	x	x	x	x	x	x	group
adult	x	group	x	x	x	group	group +	group	x	x	x	x	x	x	x	x	x	x	x	group	group	x	x	x	x	x	groups +	confetti	x	group
adult	x	x	confetti	x	x	x	x	confetti	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	group	x	combination
child	x	x	group +	confetti	x	group	group	group	x	x	x	x	x	x	x	x	x	x	x	x	x	x	group	x	x	x	x	x	x	group
adult	x	x	x	x	x	x	x	group	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	?
adult	group	x	x	x	x	x	x	groups +	x	x	group	x	confetti	x	x	x	confetti	groups	x	x	x	x	x	x	x	x	x	x	x	group
child	x	x	x	x	x	x	x	group +	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	group	x	x	x	group
adult	x	x	x	x	x	x	x	group	x	x	x	group	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	group	group
child	x	x	x	group	group	group	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	group
child	x	x	x	x	x	x	x	group	group +	confetti	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	combination
adult	x	x	x	x	x	x	group +	groups +	x	x	x	x	group+	x	x	x	groups +	groups	x	x	x	x	x	x	x	x	x	x	x	group
adult	x	x	x	x	x	x	x	groups+	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	?
adult	x	x	x	x	x	x	x	group	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	group	x	x	x	group
child	x	x	confetti	group +	x	confetti	x	confetti	x	x	x	x	x	x	x	x	x	x	group	x	x	confetti	x	group+	confetti	x	x	confetti	x	combination
adult	x	x	x	x	x	x	x	group +	x	x	x	x	group+	x	x	confetti	group+	groups	x	x	x	x	x	x	x	x	x	x	x	combination
adult	x	x	x	x	x	x	x	group +	x	x	x	x	x	x	x	x	x	x	x	x	x	group	x	x	x	x	x	x	x	group
adult	x	x	x	group	x	group +	x	confetti	confetti	x	x	x	confetti	x	x	x	x	x	x	x	x	x	x	x	x	x	group	x	x	combination
adult	x	x	x	x	x	x	x	group +	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	?
adult	x	x	x	x	x	x	x	group +	x	x	x	x	x	group	x	confetti	x	x	x	x	x	x	x	x	x	x	x	x	x	combination
child	x	x	x	x	x	x	x	group +	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	?
adult	x	x	x	x	x	x	x	groups +	confetti	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	combination

Appendix 5 Bead Boogie (Chemistry Lent-Lentseveld, Elst-‘t Woud and Wijchen-Centrum)

Appendices with chapter five

Appendix 5.1: Table S1 495

Appendix 5.2: Table S2 497

Appendix 5.3: Table S3 500

Appendix 5.4: Table S4 503

Appendix 5.1: Table S1

Table S1 Overview of graves with beads from the cemetery Lent-Lentseveld. A= drawn beads, B= wound beads, C= folded beads, D= perforated beads, E= mosaic beads, F= cut beads.

Grave	Sex	Age	Position beads	Number of beads	number of bead groups	Material	Bead techniques	Provenance beads	Date beads	Period
1	female(?)	adult	neck	10	1	glass	B	Europe	500-600	P1-P3
2	female(?)	adult	neck	52	1	glass, amber, faience	B, F, A	Europe, Baltic, Egypt, Egypt/Syro-palestinian coast, Middle East, Roman	480-530	P1
5	female(?)	adult	neck	72	1	glass, amber	B, F, A, E, C	Europe, Baltic, Egypt, Egypt/Syro-palestinian coast	530-570	P2
9	female	adult	neck	25	1	glass, amber	B, F, A, E	Europe, Baltic, Egypt, Egypt/Syro-palestinian coast	500-550	P1-P2
12	child	3-4	?	1	1	amber	F	Baltic	500-600	P1-P5
13	child	5-6	neck, hip	82 + 22	2	glass, amber	B, F, A, E, C, D	Europe, Baltic, Egypt, Egypt/Syro-palestinian coast, India	500-550	P1-P2
16	female	adult	neck, hip	26 + 1	2	glass, amber, marble, beryllium	B, F, A, D	Europe, Baltic, Egypt/Syro-palestinian coast, Roman	480-530	P1
20	female	adult	neck,loose bead, hip	92 + 1	2	glass, amber	B, F, A, E	Europe, Baltic, Egypt, Egypt/Syro-palestinian coast, Middle East	500-550	P1-P2
21	child	5-6	belt?	12	1	glass, amber, faience	B, F, A, E	Europe, Baltic, Egypt, Egypt/Syro-palestinian coast, Roman	480-530	P1
23	female	adult	neck	32	1	glass, amber	B, F, A, C	Europe, Baltic, Egypt/Syro-palestinian coast, Roman	480-530	P1
26	child	5-6	neck, arm	61 + 37	2	glass, amber	B, F, A	Europe, Baltic, Egypt/Syro-palestinian coast	540-560	P2
27	child	4-5	belt	7	1	glass, faience	B	Europe, Roman	530-570	P2
28	female	adult	neck, loose bead	109	1	glass	B	Europe	500-550	P1-P2
34	female	adult	neck, arm/stomach, hip, knees	98 + 5 + 1 + 1	4	glass, meerschaum	B, F, A	Europe, Baltic, Mediteranean	500-550	P1-P2
35	female	adult	chest, hip	41 + 1	2	glass, amber	B, F, E, C	Europe, Baltic, Egypt, Egypt/Syro-palestinian coast	500-550	P1-P2
36	female	adult	chest	11	1	glass, amber	B, F, A, D	Europe, Baltic, Egypt/Syro-palestinian coast	480-530	P1
40	child	young child	neck	120	1	glass, amber	B, F, A, E, C, D	Europe, Baltic, Egypt, Egypt/Syro-palestinian coast, Middle East, India, Roman	500-550	P1-P2
41	female	adult	neck	27	1	glass, amber	B, F	Europe, Baltic, Mediteranean	530-570	P2

42	female	adult	neck	28	1	glass, amber	B, F, C	Europe, Baltic, Egypt/Syro-palestinian coast	500-550	P1-P2
43	female	adult	neck, bag	46 + 31	2	glass, amber	B, F, A, E	Europe, Baltic, Egypt, Egypt/Syro-palestinian coast	530-570	P2
45	female	adult	disturbed grave	5	1	glass, amber, faience	B, F	Europe, Baltic, Roman	480-610	P1-P3
50	female	adult	neck, hip	19 + 1	2	glass, amber, marble	B, F, A, E	Europe, Baltic, Egypt, Egypt/Syro-palestinian coast	500-550	P1-P2
51	female	adult	neck	46	1	glass, amber	B, F, D	Europe, Baltic, Egypt/Syro-palestinian coast	550-600	P2-P3
52	female	juvenile	neck	7	1	glass	B	Europe	480-610	P1-P3
53	female	adult	neck, loose bead	66 + 1	2	glass, amber	B, F, A, C	Europe, Baltic, Egypt/Syro-palestinian coast, India	530-570	P2
55	child	infant	chest	5	1	glass, amber	B, F, A, C	Europe, Baltic, Egypt/Syro-palestinian coast	530-570	P2
102	male	19-28	cremation	1	1	glass	B	Europe	480-610	P1-P3
105	?	20-40	cremation	1	1	glass	B	Europe	480-610	P1-P3
112	?	?	cremation	1	1	glass	E	Egypt	530-570	P2

Appendix 5.2: Table S2

Table S2 Overview of graves with beads from the cemetery Elst-'t Woud. A= drawn beads, B= wound beads, C= folded beads, D= perforated beads, E= mosaic beads, F= cut beads.

Grave	Sex/gender	Age	Position beads	Number of beads	number of bead groups	Material	Bead techniques	Provenance beads	Date beads	Period	Date grave
2	?	?	cremation	5	1	glass	B	Europe	650-700	P5-P6	640-710
5	?	?	cremation	1	1	glass	B	Europe	?	?	x
8	male	adult	cremation	14	1	glass	?	?	?	?	610-710
13	?	?	cremation	2	1	glass, antler	B, F	Europe	?	?	580-650
24	?	?	cremation	6	1	glass	?	?	?	?	610-710
28	?	?	cremation	8	1	glass	?	?	?	?	610-680
38	female	adult	cremation	18	1	glass	B	Europe	620-670?	P5?	610-710
54	?	?	cremation	4	1	glass	B	Europe	?	?	610-710
55	?	?	cremation	1	1	glass	B	Europe	?	?	610-680
58	?	?	cremation	1	1	glass	B	Europe	?	?	610-710
59	female	adult	chest	3	1	glass	B	Europe	620-670?	P5?	640-710
65	?	?	cremation	1	1	glass	?	?	?	?	610-680
66	?	?	cremation	2	1	glass	B	Europe	?	?	610-680
78	?	?	cremation	4	1	glass	?	?	?	?	x
81	female	adult	upper body	120	1	glass, amber	B,C,F	Europe, Egypt/Syro-palestinian coast, Baltic	570-610	P3	610-710
82	female	child	neck, side	33	1	glass	B,C,D	Europe, Egypt/Syro-palestinian coast	570-610	P3	580-710
87	female	adult	neck, leg	79, 1	2	glass, amber	A,B,C,D,F	Europe, Egypt/Syro-palestinian coast, Baltic	530-570	P2	510-590
88	female	adult	hip, neck	33, 74	2	glass, amber, copper	A,B,C,E,F	Europe, Egypt, Egypt/Syro-palestinian coast, Baltic	550-600	P2-P3	565-590
91	female	adult	neck	41	1	glass, amber	B,F	Europe, Baltic	590-620	P3-P4	540-590
92	female	adult	upper arm	13	1	glass, amber	B,C,E,F	Europe, Egypt/Syro-palestinian coast, Egypt, Baltic	530-570	P2	x
112	female	adult	left leg, upper leg, stomach/hip, head	2,6,24, 3	4	glass, amber	B,D,F	Europe, Egypt/Syro-palestinian coast, Baltic	480-530	P1	565-590
114	?	?	cremation	1	1	glass	B	Europe	?	?	565-650
118	female	adult	hips, stomach/chest, leg	5, 33, 1	3	glass, amber, flint	A,B,E,F	Europe, Egypt/Syro-palestinian coast, Egypt, Baltic	480-530	P1	540-590
127	female	adult	hip, neck/chest	16, 108	2	glass, amber, meerschaum	A,B,C,D,E,F	Europe, Egypt/Syro-palestinian coast, Egypt, Baltic, Mediterranean	530-570	P2	565-590
129	female	child	neck	7	1	glass	B	Europe	560-610	P3	565-590
133	male	adult	purse/hip	1	1	glass	?	?	?	?	510-590
135	female	adult	scattered	3	?	glass, amber	B,F	Europe, Baltic	480-530	P1	510-565

136	female	adult	fill coffin	2	1	glass	B	Europe	550-570	P2b	510-590
140	?	?	cremation	1	1	glass	?	?	?	?	565-650
141	?	?	cremation	5	1	glass	?	?	?	?	610-710
152	?	?	cremation	1	1	glass	B	Europe	600-640	P4	610-710
155	female	adult	upper legs, in opening glass bell-beaker, chest	1, 4, 21	3	glass, amber, faience	A,B,E,G	Europe, Egypt/Syro-palestinian coast, Baltic, Egypt, Roman	530-570	P2	510-565
159	female	adult	neck	19	1	glass, amber	A,B,F	Europe, Egypt/Syro-palestinian coast, Baltic	480-610	P1-P3	580-620
161	female	child	neck/chest	84	1	glass, amber	A,B,C,D,E,F	Europe, Egypt/Syro-palestinian coast, Egypt, Baltic	530-570	P2	510-620
162	female	child	chest/stomach	43	1	glass	A,B,D	Europe, Neat East	530-570	P2	510-590
175	female	adult	chest, neck	105, 96	2	glass, amber, jet	A,B, F	Europe, Egypt/Syro-palestinian coast, Baltic	480-530	P1	510-590
183	?	?	cremation	2	1	glass	?	?	?	?	510-650
192	female?	adult	neck	12	1	glass	B	Europe	600-640	P4	x
193	female	child	head/neck	14	1	glass	B,C,D	Europe, Egypt/Syro-palestinian coast	560-610	P3	610-680
201	female	child	centre grave	7	1	glass, amber, faience	D,F,G	Egypt/Syro-palestinian coast, Baltic, Roman	480-530	P1	450-525
204	female?	adult	?	1	1	glass	B	Europe	530-570	P2	x
205	female	child	southwestern corner: neck?	8	1	glass	B	Europe	480-610	P1-P3	400-525
208	female	adult	fill grave, neck/chest, hip	2, 33, 2	3	glass, amber	A,B,D,E,F	Europe, Egypt/Syro-palestinian coast, Egypt, Baltic	510-540	P1-P2	565-650
209	female	child	neck/chest	7	1	glass	B	Europe	480-610	P1-P3	x
210	female	adult	neck	33	1	glass, ceramic	B	Europe	600-640	P4	x
211	female	adult	upper legs, neck/chest	1, 9	2	glass	B,C,D,E	Europe, Egypt/Syro-palestinian coast, Egypt	550-600	P2-P3	540-590
214	female	child?	neck, in biconical pot	9, 1	2	glass	B,D	Europe, Egypt/Syro-palestinian coast	600-640	P4	565-650
216	female	adult	neck, upper legs	5, 166	2	glass, amber	A, B, F	Europe, Egypt/Syro-palestinian coast, Baltic	480-530	P1	565-620
217	female	child	?	2	1	glass	B	Europe	450-610	P0-P3	400-525
224	?	?	cremation	2	1	glass	B	Europe	480-610	P1-P3	565-710
234	female	child	neck	11	1	glass, amber	A,B,D,F	Europe, Egypt/Syro-palestinian coast, Baltic	530-570	P2	x
235	female	adult	head	4	1	glass, amber	A,B,D,F	Europe, Baltic, Egypt/Syro-palestinian coast	530-570	P2	x

238	female	adult	neck/head /chest, arm/hip, knees	103, 24, 1	3	glass, amber, flint	A,B,D,E,F	Europe, Egypt/Syro-palestinian coast, Egypt, Baltic	550-600	P2-P3	540-590
239	female	adult	neck/head , legs	17, 1	2	glass, amber, bone	B,F	Europe, Baltic	480-610	P1-P3	540-565
242	female	adult	chest	4	1	glass, amber	A,B,F	Europe, Egypt/Syro-palestinian coast, Baltic	590-620	P3-P4	before 610
243	female	adult	head/neck	11	1	glass	B	Europe	600-640	P4	x
249	female	adult	head/neck /chest, hip	185, 38	2	glass, amber, faience	A,B,C,D,E,F, G	Europe, Egypt/Syro-palestinian coast, Egypt, Baltic, Roman	560-610	P3	540-565

Appendix 5.3: Table S3

Table S3 Overview of graves with beads from the cemetery Wijchen-Centrum. A= drawn beads, B= wound beads, C= folded beads, D= perforated beads, E= mosaic beads, F= cut beads

Grave	Sex/gender	Age	Position beads	Number of beads	number of bead groups	Material	Bead techniques	Provenance beads	Date beads	Period	Date grave
2	?	?	left side	1	1	glass	A	Egypt/Syro-palestinian coast	480-610	P1-P3	555-640
4	female	?	legs, grave fill	2	2	glass	D	Egypt/Syro-palestinian coast	480-610	P1-P3	555-640
5	female	adult	head/neck	22	1	glass, amber	B,F	Europe, Baltic	600-640	P4	570-610
8	?	?	head end grave	1	1	glass	A	Egypt/Syro-palestinian coast	450-610	P0-P3	570-640
9	female	adult	scattered	3	3	glass	B	Europe	560-610	P3	530-555
10	?	?	outside coffin	1	1	glass	B	Europe	480-530	P1	530-555
22	?	?	head end grave	2	1	glass	B	Europe	560-670	P3-P5	610-640
29	female	adult	neck	12	1	glass, amber	A,B,F	Europe, Egypt/Syro-palestinian coast, Baltic	480-530	P1	450-530
34	female	25-35	neck	113	1	glass, amber	A,B,F	Europe, Egypt/Syro-palestinian coast, Baltic	570-620	P3-P4	570-610
35	?	?	outside coffin	1	1	glass	B	Europe	?	?	570-610
37	female	?	head/neck	1	1	glass	B	Europe	560-610	P3	530-640
40	?	?	scattered	2	2	glass	B	Europe	480-530	P1	570-640
44	female	adult	grave fill	1	1	glass	B	Europe	675-750	x	530-640
45	female	?	upper body	5	1	glass	B	Europe	570-620	P3-P4	530-640
49	female	?	lower body	5	5	glass, amber	B,F	Europe, Baltic	570-620	P3-P4	450-570
50	male	child	chest	2	2	glass, ceramic	A,F	Egypt/Syro-palestinian coast, Europe	480-530	P1	490-530
51	female	?	upper body	19	1	glass, amber	A,B,F	Europe, Egypt/Syro-palestinian coast, Baltic	480-610	P1-P3	450-530
52	female	17-35	neck/chest	39	1	glass, amber	A,B,F,G	Europe, Egypt/Syro-palestinian coast, India, Baltic, Roman	480-530	P1	490-530
55	female	?	head end grave	6	1	glass, amber	B,F	Europe, Baltic	600-640	P4	610-640
58	female	?	neck	11	1	glass, amber	B, F	Europe, Baltic	620-670	P5	610-640
59	?	child	upper body	2	2	glass, faience	B,G	Europe, Roman	600-640	P4	530-570
65	female	?	neck/chest	32	1	glass, amber	A,B,C,D,F	Europe, Egypt/Syro-palestinian coast, Baltic	550-600	P2-P3	570-610
67	?	7-25	mouth	1	1	amber	F	Baltic	480-670	P1-P5	570-640
75	female	adult	head	1	1	glass	B	Europe	600-640	P4	570-610
81	female	?	feet	1	1	glass	B	Europe	480-530	P1	570-610
87	?	child	container next to coffin	2	2	amber, faience	F,G	Baltic, Roman	480-610	P1-P3	450-530
92	female	?	head end grave	13	1	glass, amber	A,B,F	Europe, Egypt/Syro-	600-640	P4	570-640

								palestinian coast, Baltic			
93	female	child	head	4	1	glass, amber	B,F	Europe, Baltic	480-610	P1-P3	555-640
98	female	?	head	29	1	glass, amber, silver	A,B,F	Europe, Egypt/Syro-palestinian coast, Baltic	570-620	P3-P4	570-640
99	male	?	lower body	1	1	glass	B	Europe	500-550	P1-P2	570-640
102	?	?	head end grave	2	1	glass	B	Europe	560-610	P3	570-610
104	female	17-25	neck	6	1	glass	B	Europe	560-610	P3	570-610
106	female	?	left side	14	1	glass, amber	A,B,F	Europe, Egypt/Syro-palestinian coast, Baltic	580-620	P3-P4	530-640
107	female	?	right side upper body	1	1	amber	F	Baltic	480-670	P1-P5	555-640
108	?	child	?	2	1	glass, amber	B,F	Europe, Baltic	480-610	P1-P3	530-640
127	female	?	neck	40	1	glass, amber	B,C,D,F	Europe, Egypt/Syro-palestinian coast, Baltic	550-600	P2-P3	570-640
128	?	?	head end grave	2	1	glass	B	Europe	560-670	P3-P5	570-640
132	female	child	neck	16	1	glass, amber	B,D,F	Europe, Egypt/Syro-palestinian coast, Baltic	560-610	P3	530-555
134	female	2-18	neck	20	1	glass	B	Europe	560-610	P3 (some P4)	555-640
142	?	?	hip	1	1	glass	A	Egypt/Syro-palestinian coast	480-530	P1	450-570
149	female	0-10	neck	10	1	glass	B	Europe	600-640	P4	570-640
152	male	?	corner of grave outside coffin	1	1	glass	B	Europe / Mediterranean	530-570	P2	555-640
154	?	?	centre grave: hip/stomach?	1	1	amber	F	Baltic	600-640	P4	610-640
156	female	?	neck	160	1	glass, amber	A,B,E,F	Europe, Egypt/Syro-palestinian coast, Egypt, Baltic	600-640	P4	610-640
160	female	?	legs, neck	1,69	2	glass, amber, meerschaum	B,F	Europe, Baltic, Mediterranean	480-610	P1-P3	530-555
161	female	?	hip, stomach	2, 3	2	glass	B	Europe	480-530	P1	450-530
171	female	?	neck/chest	76	1	glass, amber	B,F	Europe, Baltic	550-600	P2-P3	555-570
179	female	10-18	neck/shoulder	7	1	glass	A, B	Europe, Egypt/Syro-palestinian coast	620-670	P5	610-640
194	female	?	neck	12	1	glass	B,D	Europe, Egypt/Syro-palestinian coast	600-650	P4-P5	570-640
199	?	child	left side	1	1	amber	F	Baltic	480-670	P1-P5	555-640
211	female	?	neck	2	1	glass	A	Egypt/Syro-palestinian coast	500-550	P1-P2	555-570
219	female	child	neck	84	1	glass, amber, silver	A,B,F	Europe, Egypt/Syro-	480-530	P1	490-530

								palestinian coast, Baltic			
226	female	?	head/neck	3	1	glass, amber	B,F	Europe, Baltic	480-610	P1-P3	530-555
228	female	?	feet, hip/purse	1, 6	2	glass, amber	A,B,F	Europe, Egypt/Syro-palestinian coast, Baltic	530-570	P2	530-555
230	female	17-25	neck	16	1	glass, amber	B,F	Europe, Baltic	560-610	P3	530-570
235	female	17-25	stomach, chest	5, 41	2	glass, amber, faience	A,B,F,G	Europe, Egypt/Syro-palestinian coast, Baltic, Roman	480-530	P1	490-530
239	female	?	head end grave	14	1	glass	A,B	Europe, Egypt/Syro-palestinian coast	600-640	P4	570-640
244	male	adult	hip	1	1	glass	B	Europe	?	?	610-640
249	?	?	hip	1	1	glass	B	Europe	530-570	P2	570-640
253	female	?	neck	23	1	glass	B,D	Europe, Egypt/Syro-palestinian coast	550-600	P2-P3	530-555
258	female	child	upper body	5	1	glass, amber	B,F	Europe, Baltic	550-600	P2-P3	570-610
266	female	?	scattered	15	1	glass	?	?	?	?	490-570
285	?	?	lower body	1	1	glass	B	Europe	600-640	P4	570-640
304	?	?	scattered	3	3	glass	B	Europe	560-610	P3	570-640
317	?	12	cremation	5	5	glass, rock crystal	B, F	Europe, Egypt (?)	480-550	P1-P2	450-500
324	?	20-40	cremation	1	1	glass	?	?	?	?	530-640

Appendix 5.4: Table S4

Table S4 In this table it is documented per grave whether specific bead-types from that grave form one 'chemical group' (green), multiple 'chemical groups' (yellow) or display a 'chemical confetti pattern' (red) in the PCA graphs. Sometimes a '+' is added, to indicate the presence of one or two 'chemical outliers'.

Lent Grave	Date	Child/ adult	A2.1-04	A3.1-05	A3.2-06	A3.1-07	B1.1-01a	B1.1-01b	B1.1-03	B1.1-08d	B1.2-02	B1.2-05	B1.3-02	B1.3-06	B1.4-02a	B1.4-04a	B1.6-01b	B1.6-01e	B1.8-01	B3.2-01	B4.3-02	B5.2-01d	B10.1-02	C1.4-02	C3.1-01	D1.1-02	D1.5-02	E1.2	E2.1	Summary
1	P1-P3	adult	x	x	x	x	x	x	gr. +	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	gr.
2	P1	adult	x	x	x	x	x	x	gr. +	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	gr.
5	P2	adult	x	x	x	x	gr.	gr. +	gr.	x	x	x	1	x	x	x	x	x	x	x	x	x	x	x	gr.	x	x	grs. +	conf.	gr.
9	P1-P2	adult	conf.	x	x	x	x	1	conf.	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	gr.	combi
13	P1-P2	child	gr. +	x	x	conf.	gr.	gr.	gr.	x	x	x	x	x	x	x	x	x	x	x	x	x	x	1	x	gr.	x	1	1	gr.
16	P1	adult	x	x	x	x	x	x	gr.	1	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	1	x	x	gr.
20	P1-P2	adult	x	x	x	x	1	1	grs. +	x	x	x	x	x	x	x	x	x	gr.	x	x	x	x	x	x	x	x	x	1	gr.
21	P1	child	x	x	x	1	x	x	gr. +	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	1	gr.
23	P1	adult	x	x	x	x	x	x	gr.	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	gr.
26	P2	child	x	x	x	gr.	gr.	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	gr.
27	P2	child	x	x	x	x	x	x	gr.	x	x	x	x	x	x	x	gr. +	conf.	x	x	x	x	x	x	x	x	x	x	x	combi
28	P1-P2	adult	x	x	x	x	x	gr. +	grs. +	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	gr.
34	P1-P2	adult	x	x	x	x	x	x	grs.+	1	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	combi
35	P1-P2	adult	x	x	x	x	x	x	gr.	x	x	x	x	x	x	x	x	x	x	x	x	x	1	x	x	x	x	x	x	gr.
40	P1-P2	child	conf.	x	x	gr. +	conf.	x	conf.	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	gr. +	x	1	combi
41	P2	adult	x	x	x	x	x	x	gr. +	x	x	x	x	x	x	x	x	x	x	x	x	x	conf.	x	x	x	x	x	x	combi
42	P1-P2	adult	x	x	x	x	x	1	gr. +	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	gr.
43	P2	adult	x	x	x	gr.	gr. +	x	conf.	x	x	x	x	x	x	x	conf.	1	x	x	x	x	x	x	x	x	x	gr.	x	combi
50	P1-P2	adult	1	x	x	x	x	1	gr. +	x	x	x	x	x	x	x	x	x	1	x	x	x	x	x	x	x	x	x	1	combi
51	P2-P3	adult	x	x	x	x	x	x	gr. +	x	x	x	x	x	x	x	x	x	x	x	x	x	conf.	x	x	x	x	x	x	combi
52	P1-P3	child	x	x	x	x	x	x	gr. +	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	combi
53	P2	adult	x	x	x	x	x	x	grs. +	x	x	x	x	x	x	x	conf.	x	x	x	x	x	x	x	x	x	x	x	x	combi
105	P1-P3	adult	x	x	x	x	x	x	1	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	?

Elst Grave	Date	Child / adult	A2.1-04	A3.1-05	A3.2-06	A3.1-07	B1.1-01a	B1.1-01b	B1.1-03	B1.1-08d	B1.2-02	B1.2-05	B1.3-02	B1.3-06	B1.4-02a	B1.4-04a	B1.6-01b	B1.6-01e	B1.8-01	B3.2-01	B4.3-02	B5.2-01d	B10.1-02	C1.4-02	C3.1-01	D1.1-02	D1.5-02	E1.2	E2.1	Summary
59	P4	adult	x	x	x	x	x	x	x	x	x	1	x	x	x	1	x	x	x	x	x	x	x	x	x	x	x	x	x	conf.
81	P3	adult	x	x	x	x	x	x	1	x	x	x	x	x	grs.	x	conf.	x	x	conf.	x	conf.	x	x	x	x	x	x	x	combi
82	P3	child	x	x	x	x	x	x	1	x	x	x	x	x	1	1	x	1	x	x	x	x	x	gr.	x	x	x	x	x	combi
87	P2	adult	x	x	x	conf.	x	x	grs. +	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	combi
88	P2-P3	adult	x	x	x	x	1	1	gr.	x	x	x	gr.	1	x	x	gr.	1	x	1	x	gr. +	1	1	x	x	x	1	x	gr.
91	P3-P4	adult	x	x	x	x	x	x	x	x	x	x	x	x	gr.	x	x	x	x	1	x	x	x	x	x	x	x	x	x	gr.
92	P2	adult	x	x	x	x	x	x	conf.	1	x	x	x	x	1	x	x	x	x	x	x	x	x	1	x	x	x	x	1	conf.
112	P1	adult	x	x	x	x	x	x	x	gr.	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	gr.
118	P1	adult	x	1	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	?
127	P2	adult	x	x	x	gr. +	conf.	x	gr. +	x	x	x	x	x	1	x	gr. +	gr.	gr.	1	x	x	x	x	x	1	x	1	x	gr.
129	P3	child	x	x	x	x	x	x	x	x	x	x	x	x	1	x	x	x	x	x	x	x	x	x	x	x	x	x	x	conf.
136	P2b	adult	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	1	x	x	x	x	x	x	x	x	x	x	x	?
155	P2	adult	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	1	x	x	x	x	x	x	?
161	P2	child	x	x	x	gr. +	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	1	x	x	x	x	1	1	combi
162	P2	child	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	1	x	x	x	x	x	x	x	combi
175	P1	adult	x	gr.	x	x	gr.	x	x	x	x	x	x	x	x	x	x	x	grs.	x	x	x	x	x	x	x	x	x	x	gr.
192	P4	adult	x	x	x	x	x	x	x	x	gr.	1	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	combi
193	P3	child	x	x	x	x	x	x	1	x	x	x	x	x	conf.	x	x	x	x	x	1	x	x	x	x	x	x	x	x	conf.
204	P2	adult	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	1	x	x	x	x	x	x	x	?
208	P1-P2	adult	x	1	x	x	x	x	x	x	x	x	x	x	x	x	x	1	x	x	x	x	x	x	x	x	x	gr.	x	combi
209	P1-P3	child	x	x	x	x	x	x	1	1	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	conf.
210	P4	adult	x	x	x	x	x	x	x	x	conf.	1	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	combi
211	P2-P3	adult	x	x	x	x	x	x	x	x	x	x	x	x	conf.	x	x	x	x	x	x	x	x	x	x	x	x	x	x	conf.
214	P4	child?	x	x	x	x	x	1	x	x	x	1	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	conf.
216	P1	adult	x	gr.	x	x	gr.	x	1	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	gr.
234	P2	child	x	x	x	x	conf.	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	conf.
235	P2	adult	x	x	x	x	x	x	x	x	x	x	x	x	x	x	1	x	x	x	x	x	x	x	x	x	x	x	x	conf.
238	P2-P3	adult	x	x	x	x	x	x	conf.	x	conf.	x	x	x	conf.	1	conf.	gr.	x	x	x	x	x	x	x	conf.	x	x	1	combi
249	P3	adult	x	x	x	x	x	x	gr. +	x	x	x	x	x	gr. +	1	gr.	1	x	1	grs. +	1	conf.	x	x	x	x	1	x	combi

Wijchen grave	Date	Child / adult	A2.1-04	A3.1-05	A3.2-06	A3.1-07	B1.1-01a	B1.1-01b	B1.1-03	B1.1-08d	B1.2-02	B1.2-05	B1.3-02	B1.3-06	B1.4-02a	B1.4-04a	B1.6-01b	B1.6-01e	B1.8-01	B3.2-01	B4.3-02	B5.2-01d	B10.1-02	C1.4-02	C3.1-01	D1.1-02	D1.5-02	E1.2	E2.1	Summary
0	P1 + P5	?	x	x	x	x	x	x	x	x	1	x	gr.	gr. +	x	x	x	x	x	x	x	1	x	x	1	x	gr.	x	x	gr.
4	P1-P3	?	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	1	x	x	x	?
9	P3	adult	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	1	x	x	x	x	x	x	x	x	x	?
37	P3-P4	adult	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	1	x	x	x	x	x	x	x	x	x	?
45	P3-P4	?	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	conf.	x	x	x	x	x	x	x	x	x	conf.
49	P3-P4	?	x	x	x	x	x	x	x	x	1	x	x	x	x	1	x	x	x	x	x	x	x	x	x	x	x	x	x	conf.
51	P1-P3	?	x	x	x	x	x	x	gr. +	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	combi
52	P1	adult	x	x	x	x	1	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	?
55	P4	?	x	x	x	x	x	x	1	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	conf.
58	P5	?	x	x	x	x	x	x	x	x	x	x	x	x	1	x	x	x	x	x	x	x	x	x	x	x	x	x	x	combi
59	P4	child	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	1	x	x	x	x	x	x	x	x	x	?
65	P2-P3	?	x	x	x	gr. +	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	1	x	1	x	x	x	combi
92	P4	?	x	x	x	x	x	x	x	x	x	x	1	1	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	conf.
93	P1-P3	child	x	x	x	x	x	x	1	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	conf.
98	P3-P4	?	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	gr.	1	x	x	x	x	x	x	x	x	combi
102	P3	?	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	1	x	x	x	x	x	x	x	x	x	?
104	P3	adult	x	x	x	x	x	x	x	x	x	x	x	x	1	x	x	x	x	x	x	x	x	x	x	x	x	x	x	conf.
106	P3-P4	?	x	x	gr.	x	x	x	x	x	x	conf.	x	x	x	1	x	x	x	x	x	x	x	x	x	x	x	x	x	combi
127	P2-P3	?	x	x	x	x	x	x	conf.	x	x	x	x	x	x	x	x	x	x	gr. +	x	x	x	x	x	gr.	x	x	x	combi
132	P3	child	x	x	x	x	x	x	x	x	x	x	x	x	1	x	x	x	x	1	x	x	x	x	x	x	x	x	x	combi
134	P3	child	x	x	x	x	x	x	x	x	x	x	x	x	gr.	x	x	x	x	1	x	x	x	x	x	x	x	x	x	gr.
149	P4	child	x	x	x	x	x	x	x	x	gr.	x	1	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	gr.
179	P5	child	x	x	x	x	x	1	gr.	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	combi
194	P4-P5	?	x	x	x	x	x	x	x	x	x	x	gr.	x	x	x	x	x	x	x	x	x	x	x	x	x	1	x	x	combi
228	P2	?	x	x	x	x	x	x	1	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	combi
230	P3	adult	x	x	x	x	x	x	1	x	x	x	gr.	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	gr.
235	P1	adult	x	1	x	x	x	x	x	x	x	x	x	x	x	x	x	x	gr.	x	x	x	x	x	x	x	x	x	x	gr.
239	P4	?	x	x	x	x	x	x	1	x	gr.	x	x	x	1	x	x	x	x	x	x	1	x	x	x	x	x	x	x	combi
253	P2-P3	?	x	x	x	x	x	x	conf.	x	x	x	x	x	x	x	x	gr.	x	x	x	x	x	x	x	gr.	x	x	x	combi

Curriculum Vitae

Mette Langbroek, born in Wijk bij Duurstede in 1989, went to Revius Lyceum, in both Wijk bij Duurstede and Doorn, for her pre-university education between 2001 and 2007, following bilingual education (Dutch and English) atheneum (VWO) with a profile in culture and society. She then spent a year in Andra Pradesh, India, teaching English at an elementary school for children of the Lambada Tribe near Suryapet. From 2008 onwards Langbroek studied archaeology at Leiden University, pursuing her bachelor degree between 2008 and 2012, focusing on historical archaeology and writing her bachelor thesis on ceramics from a late medieval hospital in Delft *(Aardewerk van een gasthuis uit de Late Middeleeuwen in Delft*).

After joining the excavation of the Merovingian cemetery at Borgharen near Maastricht in 2012, Langbroek chose to make early medieval archaeology the main focus of her Research Master (*cum laude*) at Leiden University between 2012 and 2016. This Research Master, called *The Transformation of the Roman World*, was led by Prof. Dr. Frans Theuws and focused on the study of connections between the Mediterranean World and Northwestern Europe in the period after the fall of the Roman Empire. During the Research Seminar *Byzantium in the North* Langbroek and her peers mapped coins, garnet-inlaid objects and beads with an origin in the Mediterranean found in Merovingian graves. In her MA-thesis *All that is Gold does not Glitter, A study on the Merovingian use and exchange of amber or 'northern gold' in the Benelux and the German Lower Rhine area*' she chose to focus on connections between Northwestern Europe and the Baltic in the Merovingian period instead, by studying beads made of amber from those very same graves. In addition, Langbroek joined her Research Master peers in documenting every single Merovingian site in the Benelux and the German Lower Rhine Area in archaeological literature, in order to interpret the distributions of the objects of Mediterranean or West-Asian origin from Merovingian graves in a more nuanced manner.

This research kick-started the application for the *ERC Rural Riches Project*, which was granted in 2017 and allowed Langbroek to pursue her PhD research at the Faculty of Archaeology's department of *World Archaeology* at Leiden University. Besides focusing on Merovingian beads, she also developed an expertise in Carolingian and Viking Age beads by studying the bead assemblage from Dorestad in the *Rijksmuseum van Oudheden* in Leiden, for which Langbroek guest-curated the exhibition *5000 Jaar Kralen* in 2022. During the final two years of writing the dissertation, 2023-2025, Langbroek started her own research company called *De Oudheidsfabriek*, which was merged at the start of 2025 with *SAGA Archeologie*, in which Langbroek continues to work as a material specialist for the entire early medieval period. From 2027 onwards, she will carry on her research on early medieval beads and exchange at Leiden University, as postdoc in the ERC Synergy Project COCO, *Connecting Communities in Early Medieval Europe.*

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