

# **Death in Times of Change**

## Transformations of Prehistoric Hunter-Fisher Burial Rituals Between the Baltic and the Urals

Supplement 4. Additional figures

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# **Supplement 4**

## **Additional figures**

This supplement contains visual materials not included in the main text, such as additional figures, charts and plots.



# List of figures

Figure 1. Mesolithic burial sites in Europe	1
Figure 2. The “gap area” between the Baltic and the Urals	2
Figure 3. The cover of A. Inostrantsev’s monograph	3
Figure 4. Yazykovo 1, graves ?	4
Figure 5. Yuzhniy Oleniy Ostrov	5
Figure 6. Cover of N. N. Gurina’s book <i>Oleneostrovskiy Burial Ground</i>	6
Figure 7. Shagara 1, grave 89	7
Figure 8. Definition of burials containing several individuals	8
Figure 9. Research algorithm	9
Figure 10. Absolute chronology of the Murzikhinskiy 2 graveyard	10
Figure 11. Slotted bone/antler tools at forest Mesolithic sites	11
Figure 12. Southeastern part of the East European Plain. Burial assemblages. Mesolithic chronological markers	12
Figure 13. Southeastern part of the East European Plain. Burial assemblages. Early Metal Age chronological markers – lithic pendants	13
Figure 14. Southeastern part of the East European Plain. Burial assemblages. Early Metal Age chronological markers – copper rings, slate ring and bracelet, arrowheads, ceramics	14

Figure 15. Chronological distribution of the hunter-fisher-gatherer burial sites in the southeastern part of the East European Plain	<b>15</b>
Figure 16. Burial kits. Individual factor map. Initial result	<b>16</b>
Figure 17. Burial kits. Contribution of variables to two dimensions	<b>17</b>
Figure 18. Burial kits. Partial axes of the characteristics	<b>18</b>
Figure 19. Burial kits. Correlation circle	<b>19</b>
Figure 20. Burial kits. Scree plot	<b>20</b>
Figure 21. Burial kits. Group representation	<b>21</b>
Figure 22. Burial kits. Contribution of groups to both dimensions	<b>22</b>
Figure 23. Burial kits. 1st dimension	<b>23</b>
Figure 24. Burial kits. 2nd dimension	<b>24</b>
Figure 25. Anthropological remains. Individual factor map	<b>25</b>
Figure 26. Anthropological remains. Correlation circle. Initial result	<b>26</b>
Figure 27. Anthropological remains. Partial axes	<b>27</b>
Figure 28. Anthropological remains. Correlation circle	<b>28</b>
Figure 29. Anthropological remains. Scree plot	<b>29</b>
Figure 30. Anthropological remains. Group representation	<b>30</b>
Figure 31. Anthropological remains. Contribution of groups to both dimensions	<b>31</b>
Figure 32. Anthropological remains. 1st dimension	<b>32</b>
Figure 33. Anthropological remains. 2nd dimension	<b>33</b>
Figure 34. Accompanying burial features. Partial axes	<b>34</b>
Figure 35. Accompanying burial features. Scree plot	<b>35</b>
Figure 36. Accompanying burial features. Group representation	<b>36</b>
Figure 37. Accompanying burial features. 1st dimension	<b>37</b>
Figure 38. Accompanying burial features. 2nd dimension	<b>38</b>
Figure 39. Neolithic burial kit	<b>39</b>
Figure 40. Burial kits. Individual factor map	<b>40</b>
Figure 41. Burial kits. Test 1. MFA of quantitative variables	<b>42</b>
Figure 42. Burial kits. Test 1. Contribution of variables to the 1st dimension	<b>43</b>
Figure 43. Burial kits. Test 2. Graves with pendants only. MFA of quantitative variables	<b>44</b>
Figure 44. Burial kits. Graves with amber pendants only. MFA of quantitative variables	<b>45</b>
Figure 45. Burial kits. Graves with amber pendants only. MFA of individuals	<b>46</b>

Figure 46. Burial kits. Least informative assemblages. MFA of variables	<b>47</b>
Figure 47. Burial kits. Final test. Correlation circle	<b>48</b>
Figure 48. Burial kits. Final test. Group representation	<b>49</b>
Figure 49. Burial kits. Final test. Contribution of groups to both dimensions	<b>50</b>
Figure 50. Burial kits. 1st dimension	<b>51</b>
Figure 51. Burial kits. 2nd dimension	<b>52</b>
Figure 52. Anthropological remains. 1st test. Quantitative variables. MFA	<b>53</b>
Figure 53. Anthropological remains. 2nd test. Quantitative variables. MFA	<b>54</b>
Figure 54. Anthropological remains. 2nd test. Individual factor map	<b>55</b>
Figure 55. Anthropological remains. 2nd test. Quantitative variables	<b>56</b>
Figure 56. Anthropological remains. 2nd test. Scatter plot of individuals	<b>57</b>
Figure 57. Anthropological remains. Final test. Individual factor map	<b>59</b>
Figure 58. Anthropological remains. Final test. Individuals MFA with established, highlighted groups	<b>60</b>
Figure 59. Anthropological remains. Final test. Partial axes	<b>61</b>
Figure 60. Anthropological remains. Final test. Group representation	<b>62</b>
Figure 61. Anthropological remains. Final test. Scree plot	<b>63</b>
Figure 62. Anthropological remains. Final test. 1st dimension	<b>64</b>
Figure 63. Anthropological remains. Final test. 2nd dimension	<b>65</b>
Figure 64. Accompanying burial features. 1st test. Scatter plot of individuals	<b>66</b>
Figure 65. Burial pits. Dimensions	<b>67</b>
Figure 66. Accompanying burial features. Ochre stains. Dimensions	<b>68</b>
Figure 67. Accompanying burial features. Ochre stains. 1st test. MFA	<b>69</b>
Figure 68. Accompanying burial features. Ochre stains. 1st test. Variables. MFA	<b>70</b>
Figure 69. Accompanying burial features. Ochre stains. Least informative individuals. Correlation circle	<b>71</b>
Figure 70. Accompanying burial features. Ochre stains. Most informative individuals. Correlation circle	<b>72</b>
Figure 71. Accompanying burial features. Ochre stains. Final test. Group representation	<b>73</b>
Figure 72. Accompanying burial features. Ochre stains. Final test. Variables. MFA	<b>74</b>

Figure 73. Accompanying burial features. Ochre stains. Final test. Scree plot	<b>75</b>
Figure 74. Accompanying burial features. Ochre stains. Final test. 1st dimension	<b>76</b>
Figure 75. Accompanying burial features. Ochre stains. Final test. 2nd dimension	<b>77</b>
Figure 76. Accompanying burial features. Ochre stains. Final test. Individuals. MFA	<b>78</b>
Figure 77. Accompanying burial features. Ritual activity areas. Dimensions	<b>79</b>
Figure 78. Accompanying burial features. Ritual activity areas. Correlation circle and scatter plot of individuals	<b>80</b>
Figure 79. Accompanying burial features. Pits. Dimensions	<b>81</b>
Figure 80. Accompanying burial features. Hearths. Variables. MFA	<b>82</b>
Figure 81. Accompanying burial features. Hearths. Scatter plot of individuals	<b>83</b>
Figure 82. Accompanying burial features. Clusters of artefacts. Variables. MFA	<b>84</b>
Figure 83. Accompanying burial features. Clusters of artefacts. Scatter plot of individuals	<b>85</b>
Figure 84. Accompanying burial features. Other elements (stones, covers, wooden elements)	<b>86</b>
Figure 85. Gul'kinskoe 2	<b>87</b>
Figure 86. Minnyarovo. Burial kit	<b>88</b>
Figure 87. Starichniy Greben'. Personal ornaments found with the deceased	<b>89</b>
Figure 88. Staro-Nagaevskiy 2. Ceramics from the burial pits	<b>90</b>
Figure 89. Tenishevo grave 8	<b>91</b>
Figure 90. Burial assemblages in the hunter-fisher-gatherer graves from the southeastern part of the East European Plain	<b>92</b>
Figure 91. Berendeevo 1	<b>94</b>
Figure 92. Ivanovskoe 7	<b>96</b>
Figure 93. Konchanskiy	<b>98</b>
Figure 94. Burial assemblages in the hunter-fisher-gatherer graves from the central part of the East European Plain	<b>100</b>
Figure 95. Yuzhniy Oleniy Ostrov. Burial 100. Details	<b>114</b>

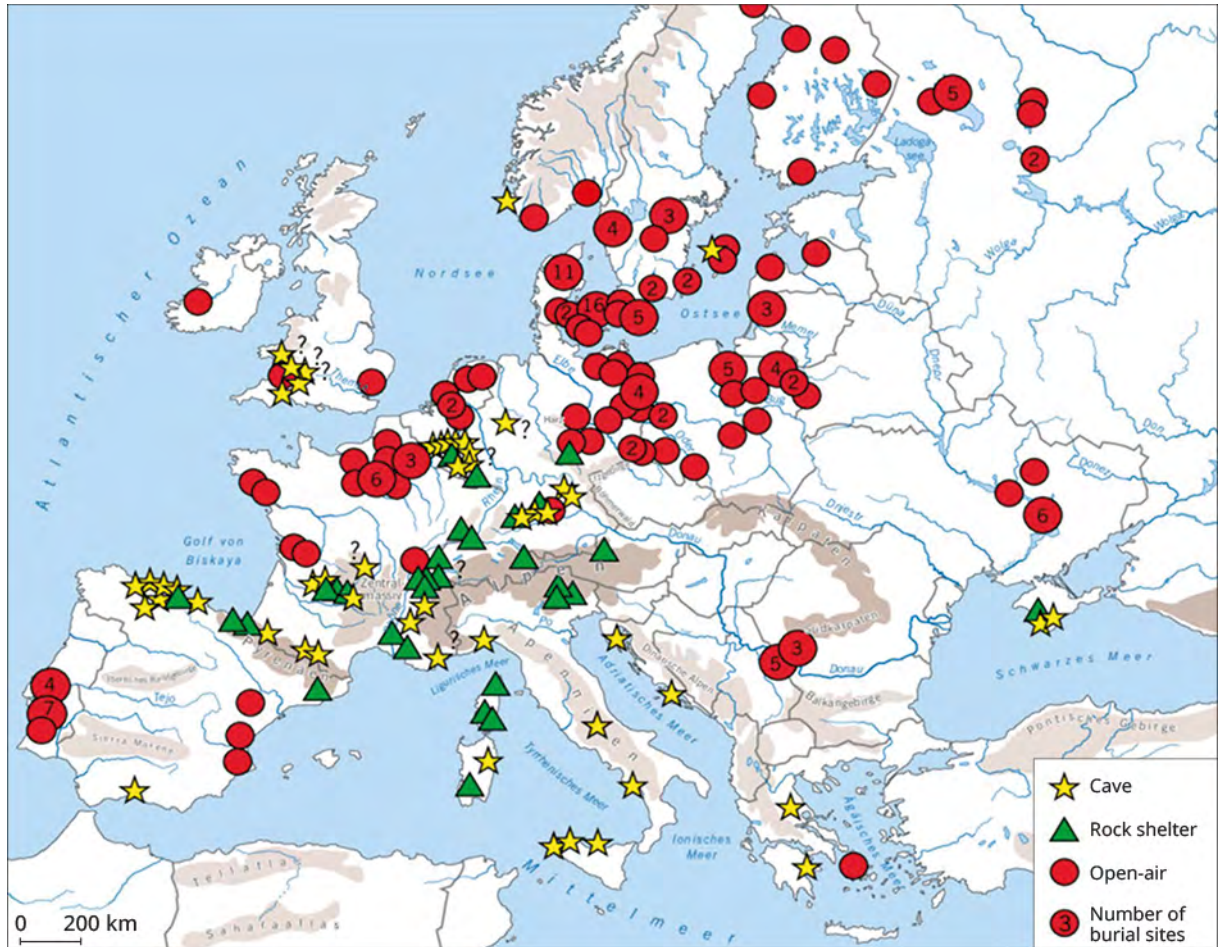


Figure 1. Mesolithic burial sites in Europe. The map represents the East European Plain as an understudied area in terms of Mesolithic hunter-fisher-gatherer interments (after Grünberg 2016, 14).



Figure 2. The “gap area” between the Baltic and the Urals, outlined in red, represents a region that has been largely neglected in research, leaving socio-cultural phenomena of the local Middle Holocene obscure to the global scientific community (after Terberger *et al.* 2010). More recent publications are beginning to address this gap.



Figure 3. The cover of A. Inostrantsev's monograph on the finds made at Ladoga Lake, including the HFG anthropological remains. The design reflects the spirit of national romanticism popular at that time (after Inostrantsev 1882).

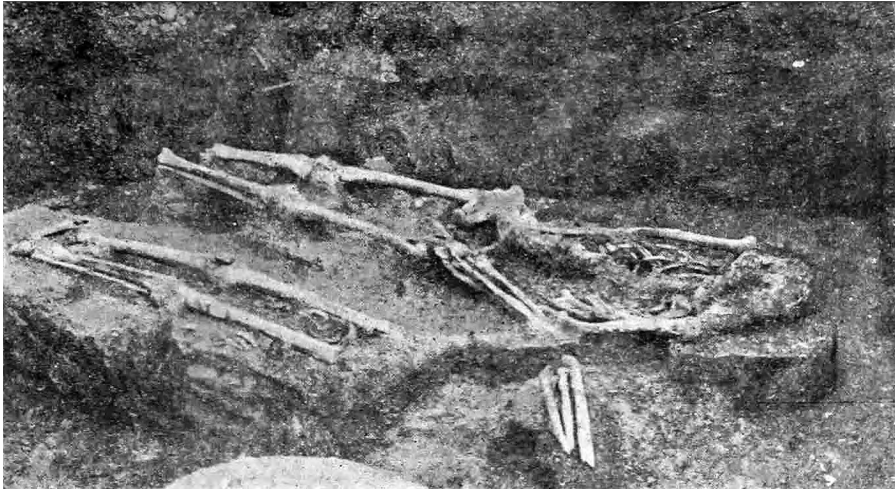


Figure 4. Yazykovo 1, graves ?. The standard for the forest-zone HFG position – stretched supine with the upper limbs placed on the pelvis. A lack of burial goods and accompanying objects led the researchers to assume that the local Later Stone Age population did not have any specific burial rituals and did not choose any particular place to bury their deceased (Photo: Bader 1937, fig. 2).



**Figure 5. Yuzhny Oleniy Ostrov. The discovery of the first HFG large cemetery with rich and diverse burial features fully changed the way researchers saw the burial rituals in the Early-Middle Holocene. Besides making first observations on the developments of the local burial rites, researchers started a still highly relevant discussion about the social diversity in the Stone Age and the co-existence of the groups with different cultural traditions, technologies, and even ancestries in the area during the Late Mesolithic-Early Neolithic (Photo: National Museum of Karelia, Wikimedia Commons).**



Figure 6. Cover of N. N. Gurina's book *Oleneostrovskiy Burial Ground*, Moscow-Leningrad, USSR Academy of Sciences 1956.

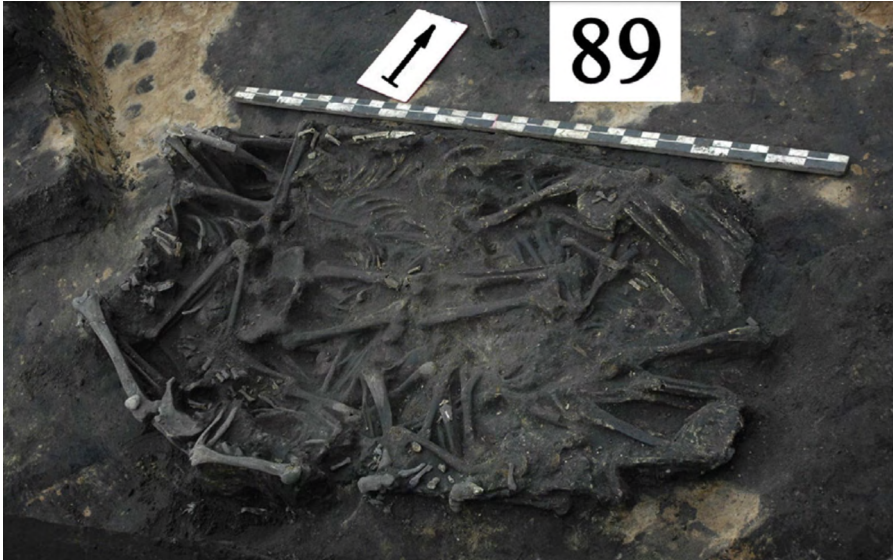


Figure 7. Shagara 1, grave 89. The shift towards a hypothesis-driven and analytically focused research procedure drew attention to the specific types of burials, particularly those that researchers associated with significant social transformations in the community, for instance, plural burials (Photo: after Shishlina *et al.* 2016, fig. 3. Reproduced here by courtesy of E. Kaverzneva).

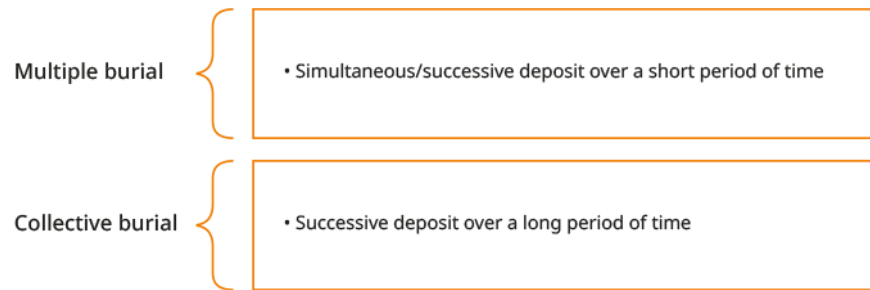


Figure 8. Definition of burials containing several individuals (Scheme: redrawn by A. Khramtsova after Törv 2016, 64).

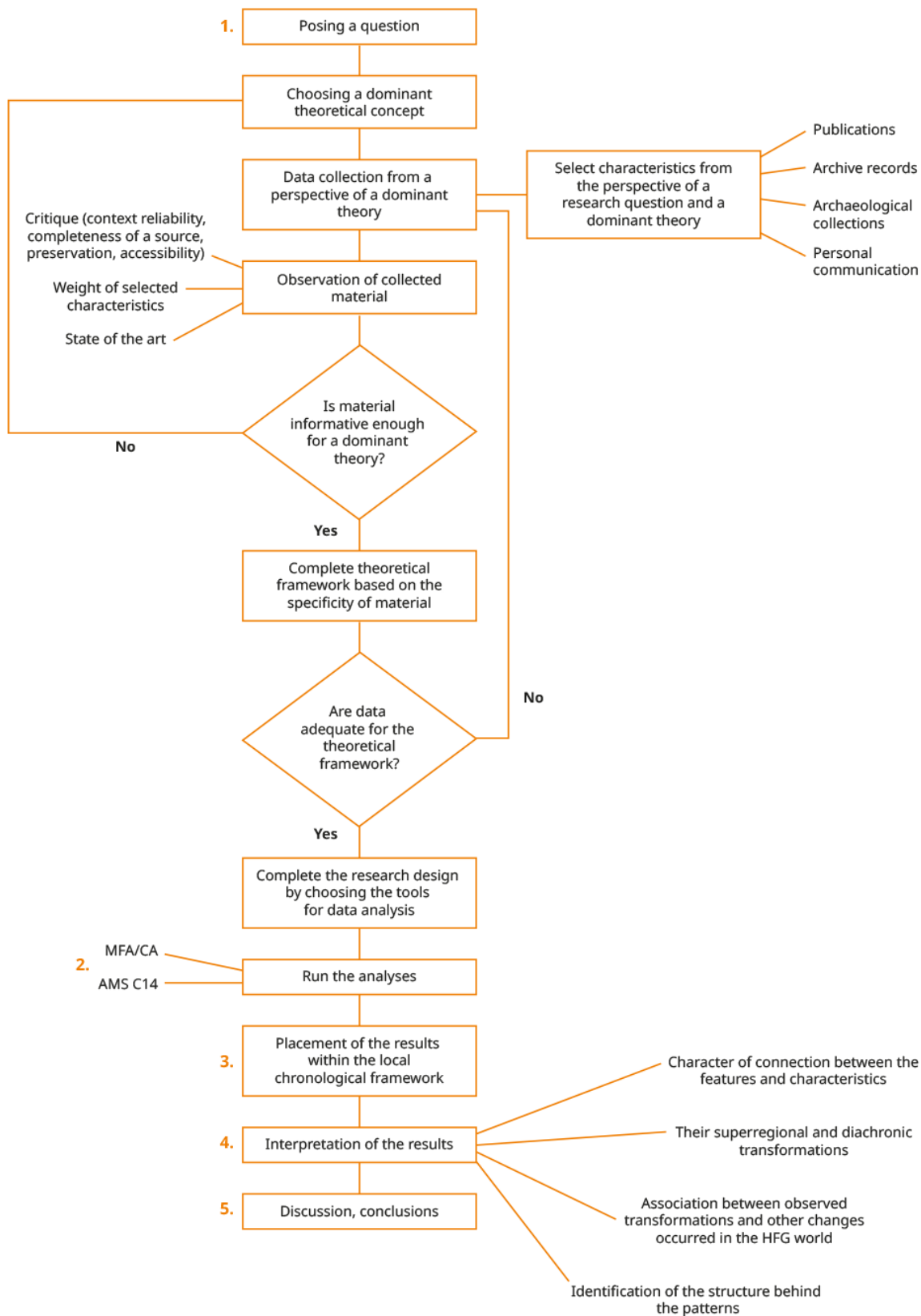


Figure 9. Research algorithm based on a problem-oriented research procedure involved in this study (Scheme: A. Khramtsova).

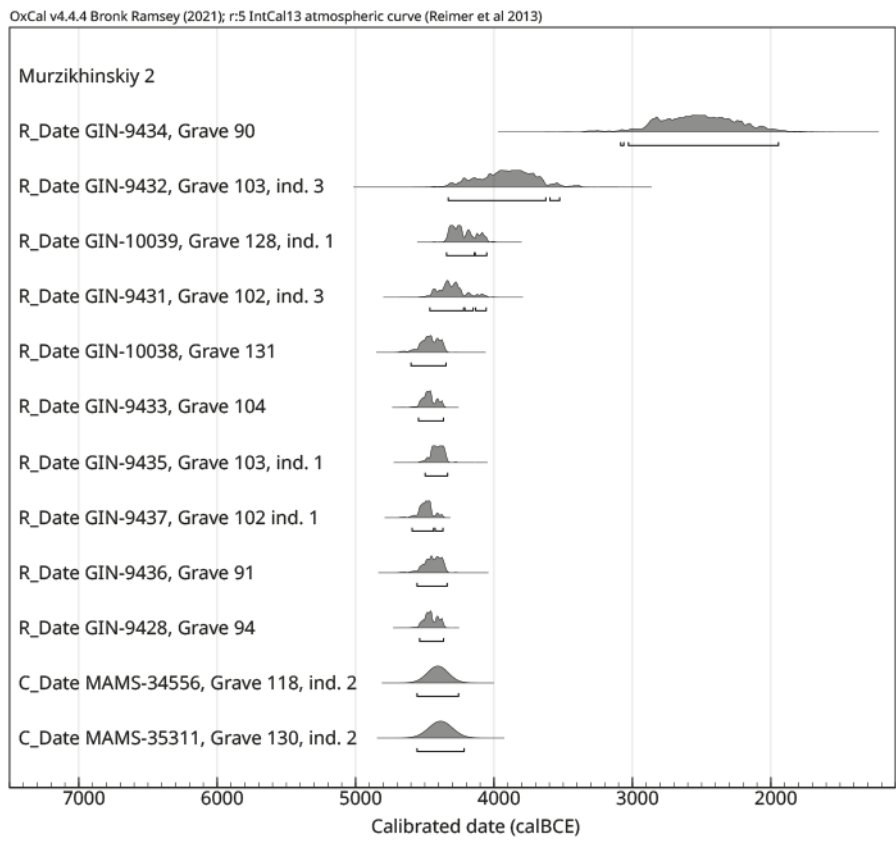


Figure 10. Absolute chronology of the Murzikhinskiy 2 graveyard (based on Chizhevskiy 2008; Key *et al.* 2020; further information in Appendix B).

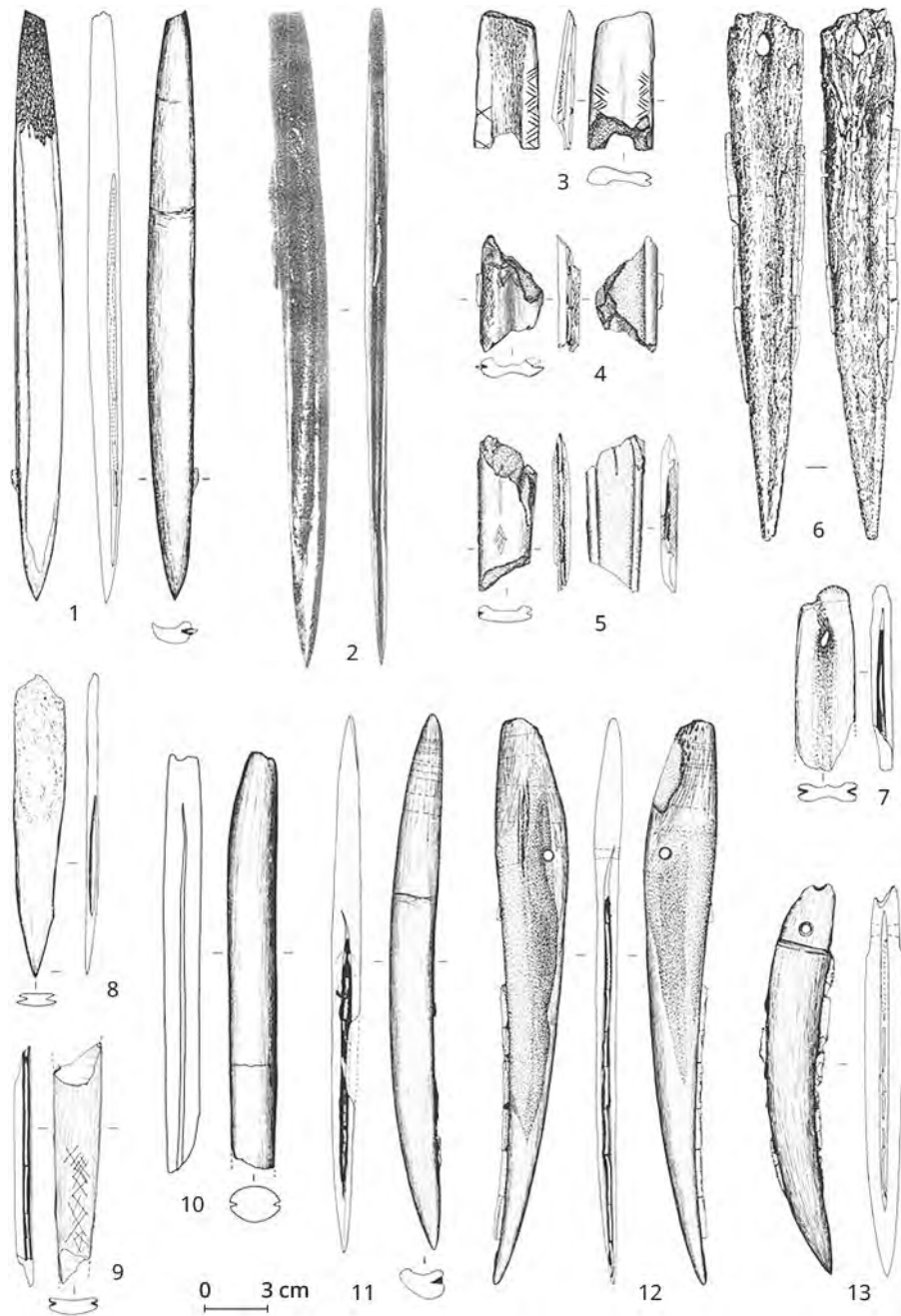


Figure 11. Slotted bone/antler tools at other forest Mesolithic sites (after Zhilin 2019, 54, reproduced here by courtesy of M. G. Zhilin): 1, 4, 5, 11 – Stanovoe 4, layer 3, excavation 2; 2 – Samotovino; 3, 7, 9, 12, 13 – Stanovoe 4, layer III, excavation 3; 6 – Yuzhny Oleniy Ostrov, grave 100; 8 – Okayomovo 5, layer III; 10 – Stanovoe 4, layer IV.

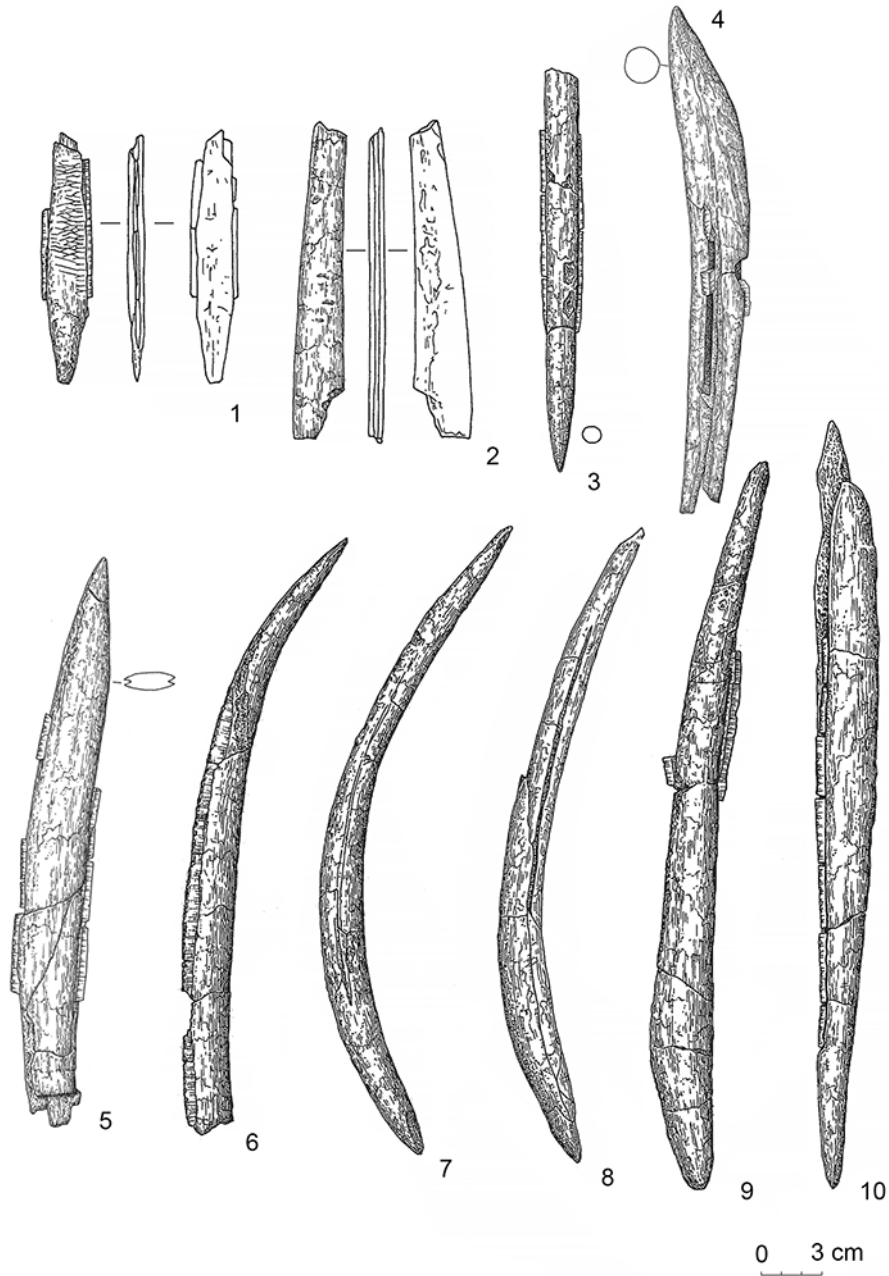


Figure 12. Southeastern part of the East European Plain. Burial assemblages. Mesolithic chronological markers – slotted bone/antler tools (after Kazakov 2011, reproduced here by courtesy of E. P. Kazakov): 1, 2 – Mellyatamak 3 grave 1; 3, 8, 10 – Mellyatamak 5 grave 9; 4 – Mellyatamak 5 grave 10; 5 – Mellyatamak 5 grave 16; 6, 7, 9 – Mellyatamak 5 grave 20.

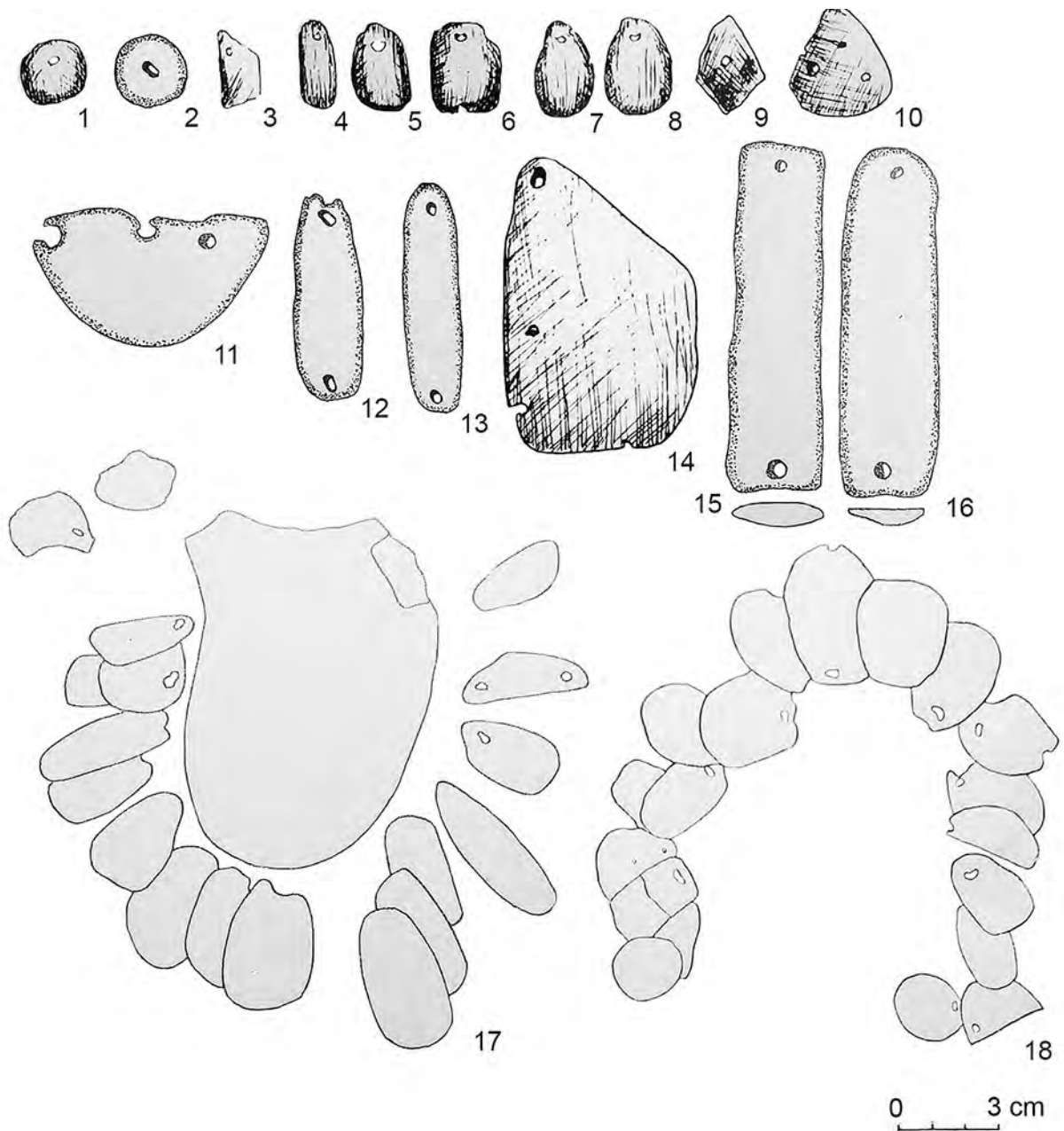


Figure 13. Southeastern part of the East European Plain. Burial assemblages. Early Metal Age chronological markers – lithic pendants (based on Gabyashev and Begovatov 1984; Gabyashev 1992): 1, 3-8, 18 – Tensishevo grave 2; 2, 11-13, 15-16 – Tensishevo grave 20; 9-10, 14 – Tensishevo grave 7; 17 – Tensishevo grave 16.

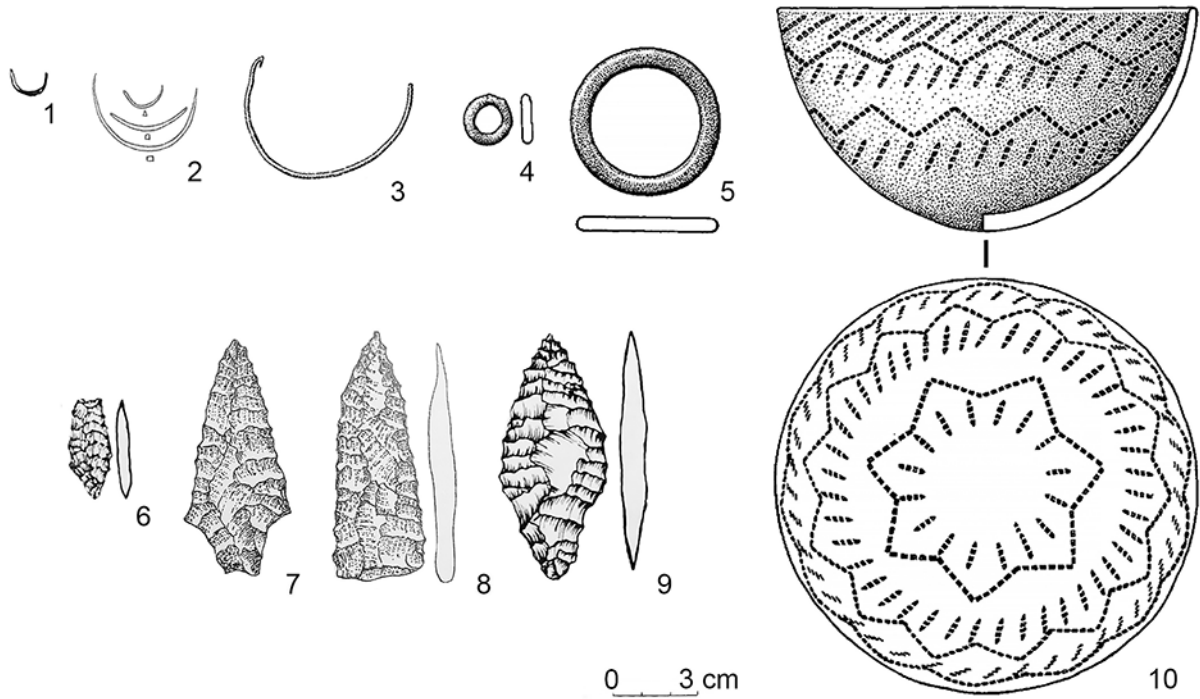


Figure 14. Southeastern part of the East European Plain. Burial assemblages. Early Metal Age chronological markers - copper rings, slate ring and bracelet; arrowheads; ceramics (based on Gabyashev and Begovatov 1984; Gabyashev 1992; Chizhevskiy 2008; Chizhevskiy and Shipilov, 2018): 1, 6, 9 - Tenishevo grave 10; 2, 7 - Tenishevo grave 9; 3 - Murzikhinskiy 2 grave 156; 4 - Tenishevo grave 18; 5 - Murzikhinskiy 2 grave 90; 8 - Tenishevo grave 8; 10 - Murzikhinskiy 2 grave 103.

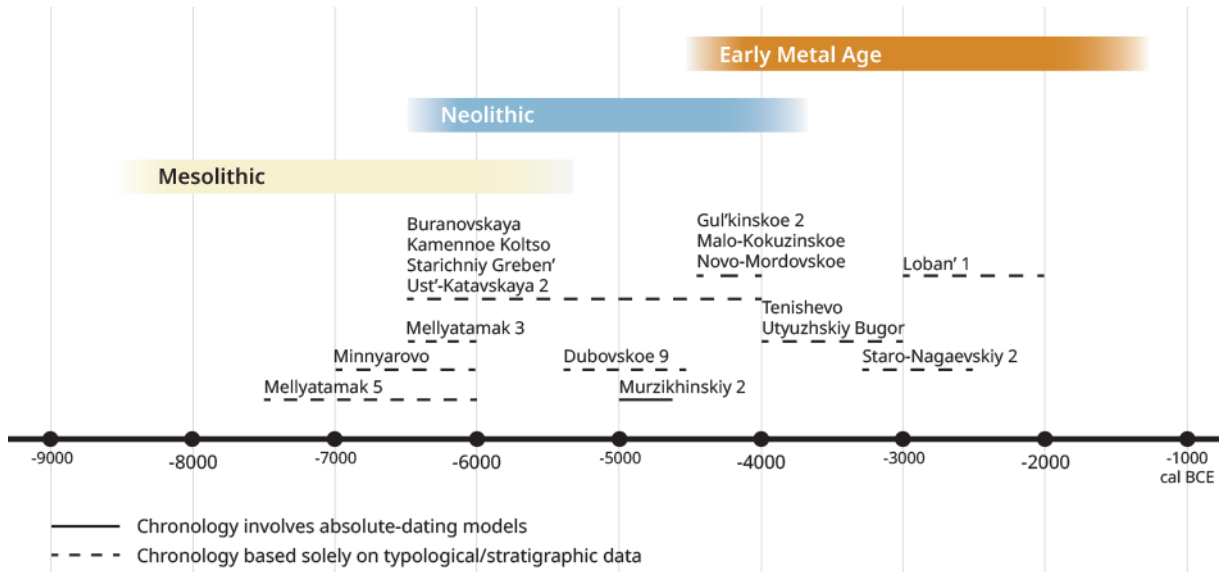


Figure 15. Chronological distribution of the hunter-fisher-gatherer burial sites in the southeastern part of the East European Plain based on the current knowledge of their absolute and relative chronology (Scheme: A. Khramtsova).

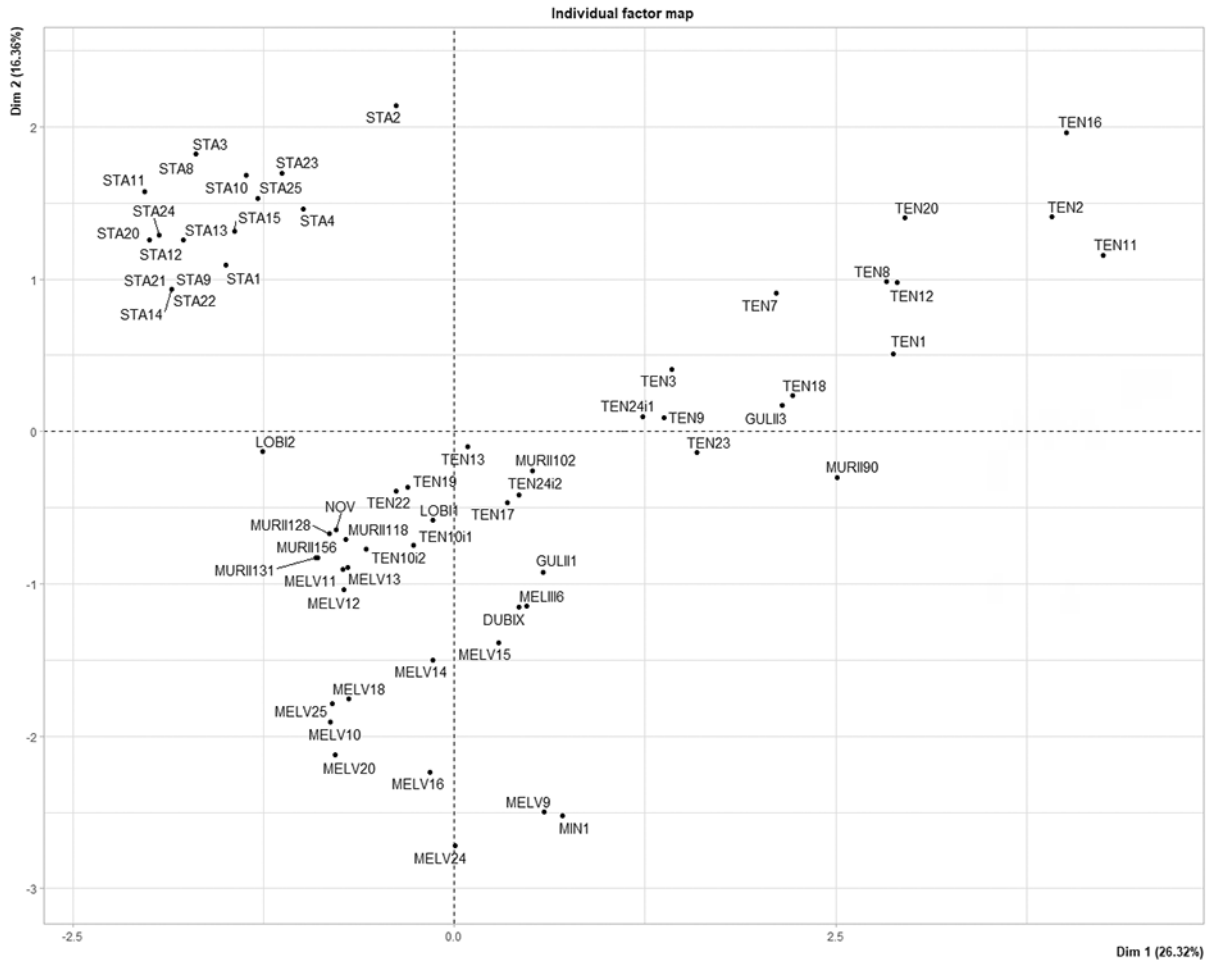


Figure 16. Burial kits. Individual factor map. Initial result.

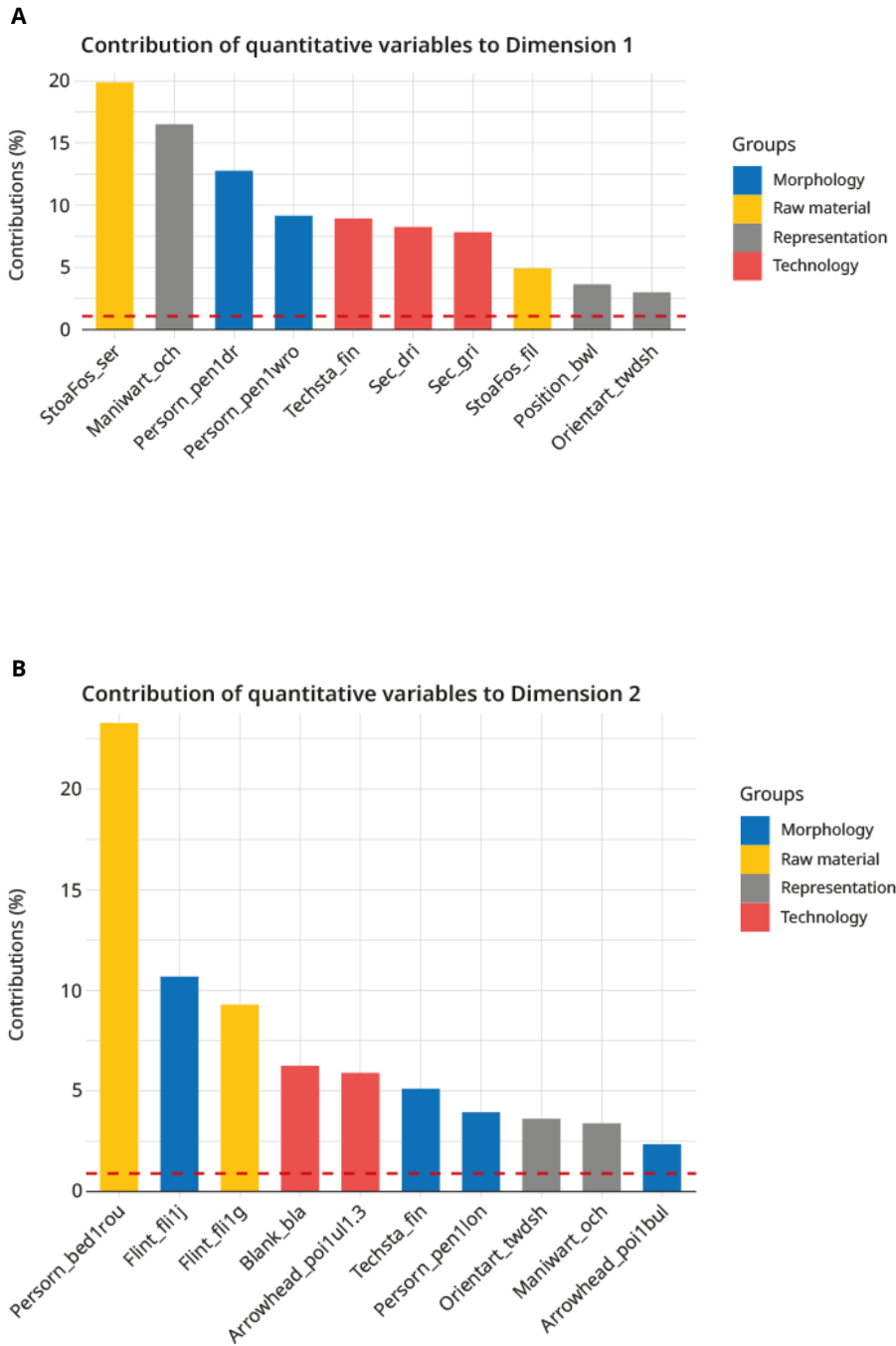


Figure 17A, B. Burial kits. Contribution of variables to two dimensions. Groups: morphology, raw material, representation, technology. A: Contribution of quantitative variables to dimension 1. B: Contribution of quantitative variables to dimension 2.

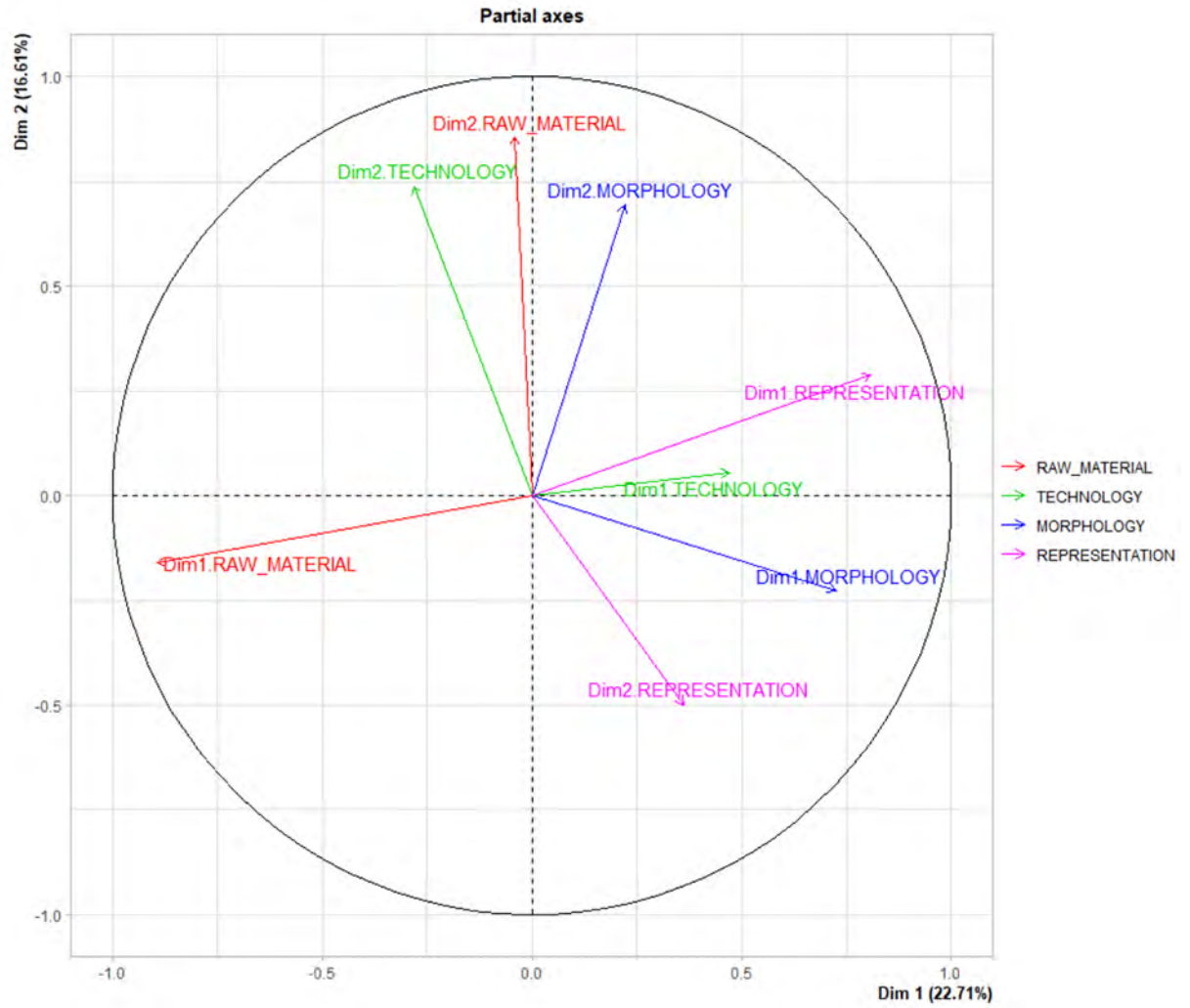


Figure 18. Burial kits. Partial axes of the characteristics.



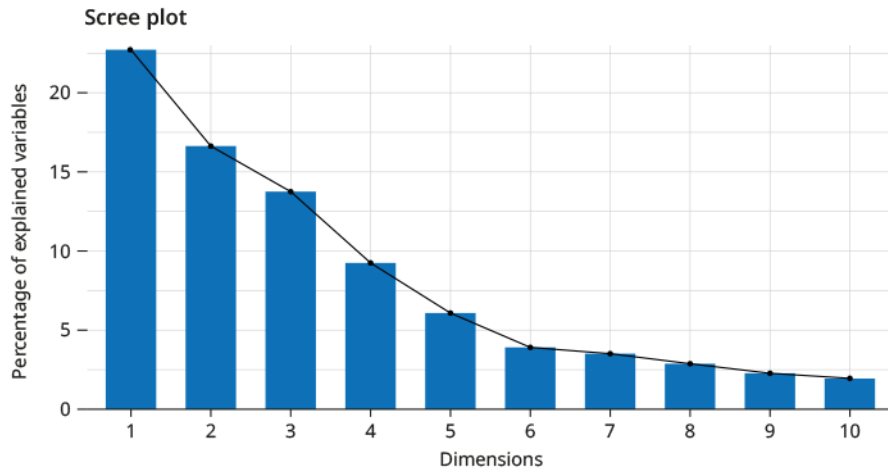


Figure 20. Burial kits. Scree plot.

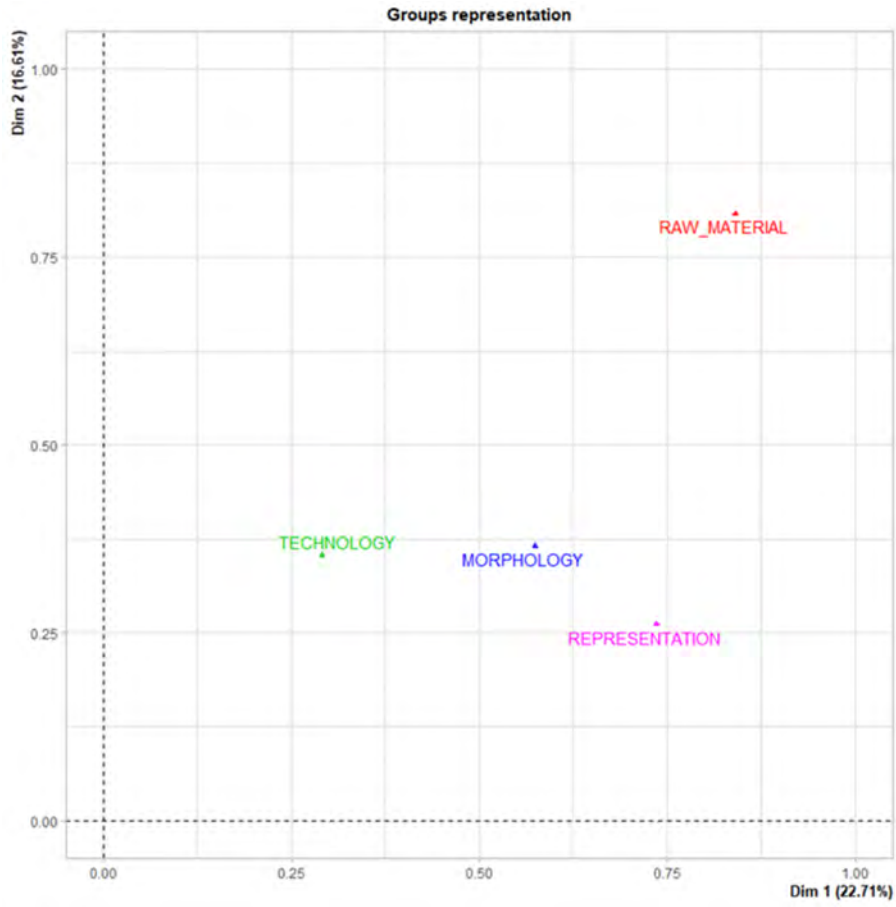


Figure 21. Burial kits. Group representation.

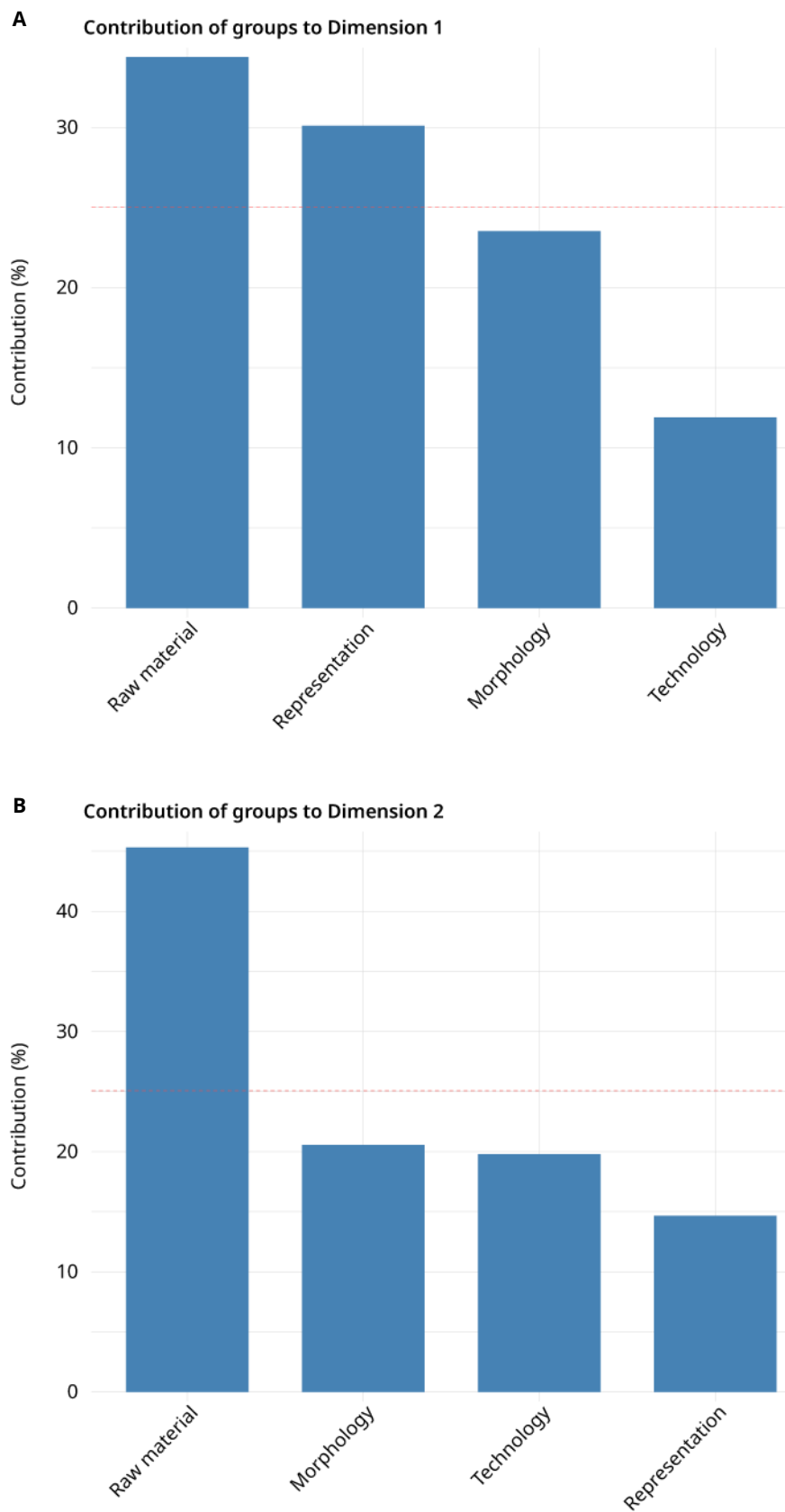


Figure 22A, B. Burial kits. Contribution of groups to both dimensions. A: Contribution of groups to dimension 1. B: Contribution of groups to dimension 2.

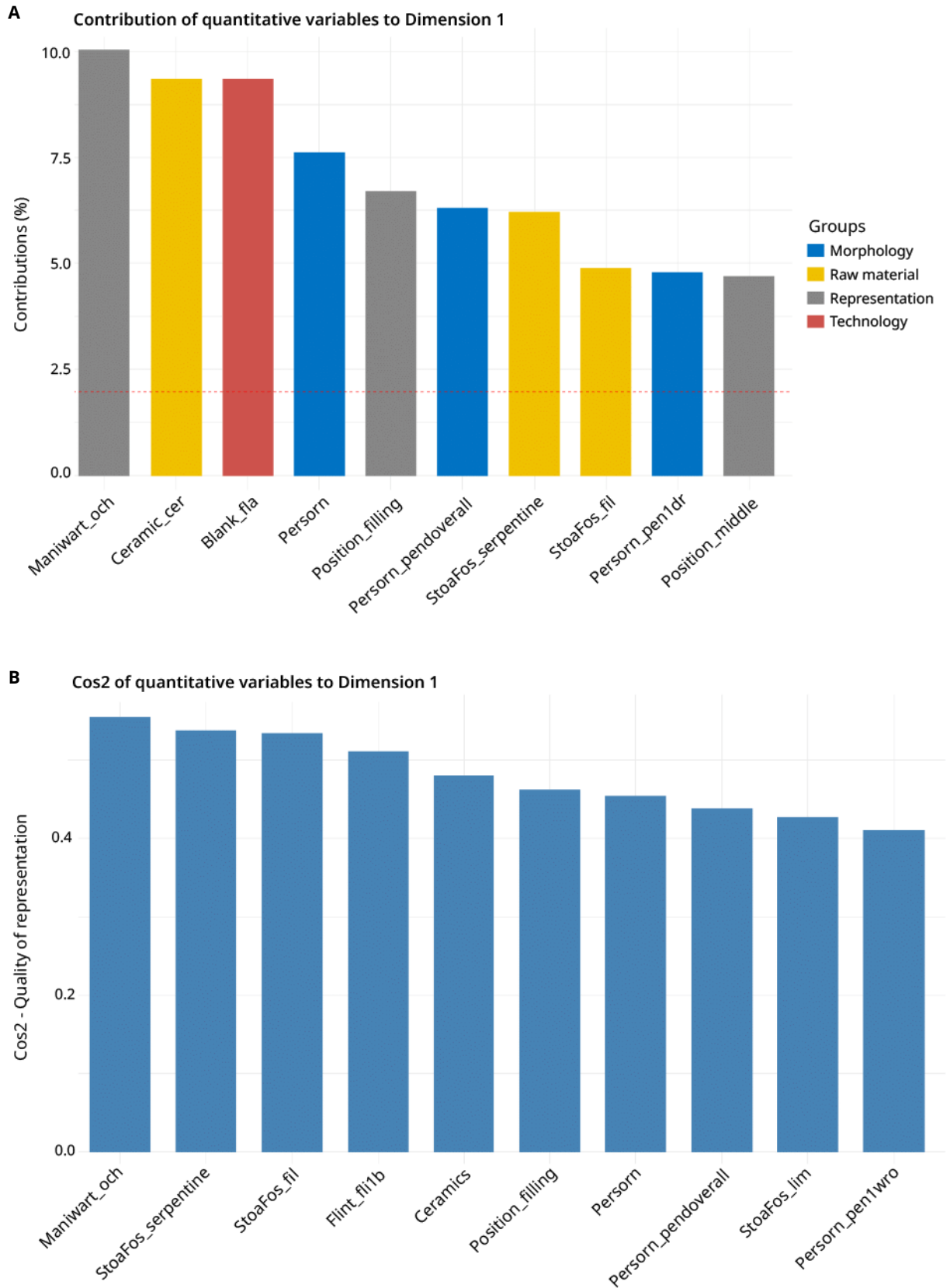


Figure 23A, B. Burial kits. A: Contribution of variables to the 1st dimension. B: Quality of representation of the variables of the principal components.

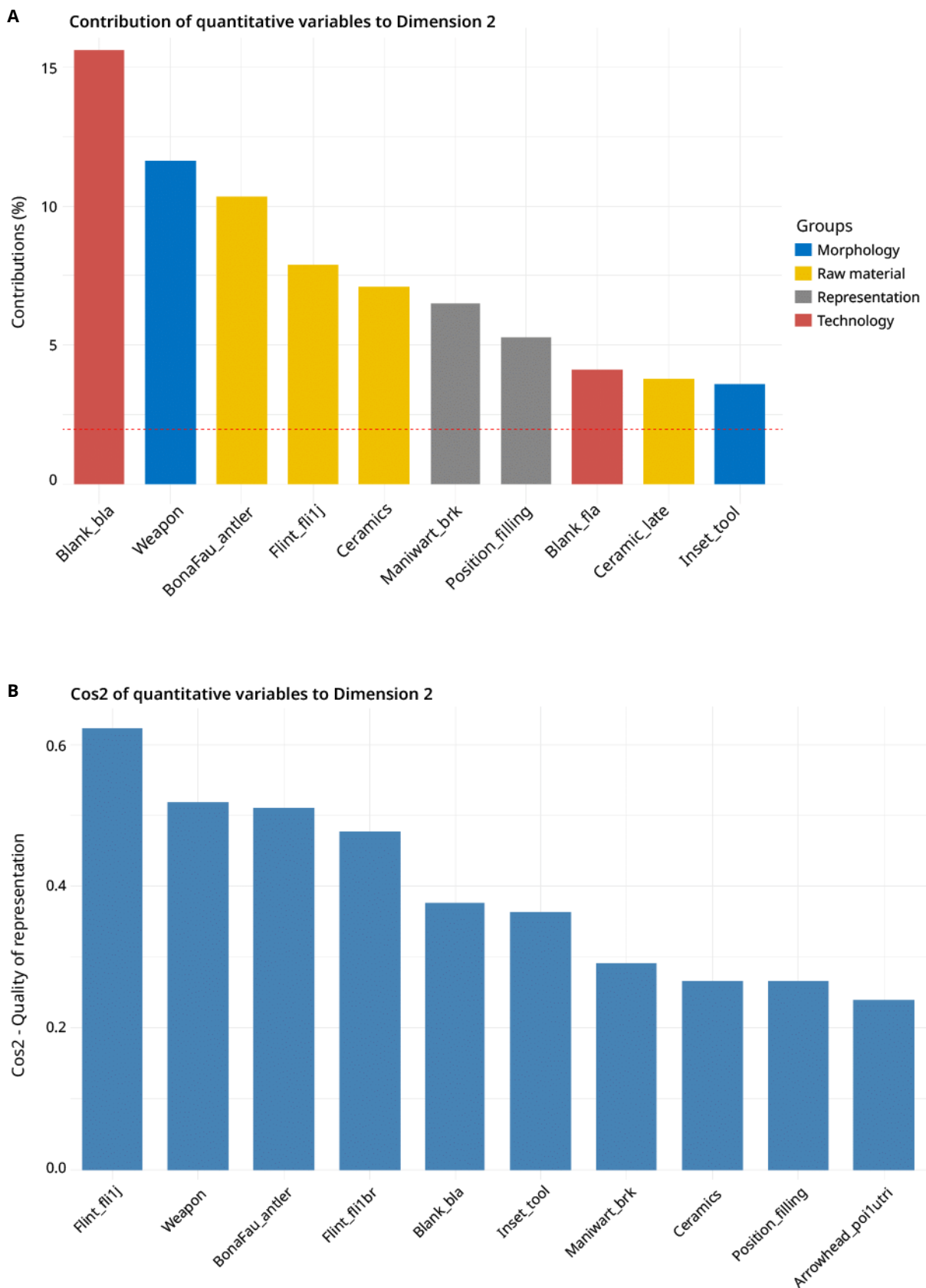


Figure 24A, B. Burial kits. A: Contribution of variables to the 2nd dimension. B: Quality of representation of the variables of the principal components.

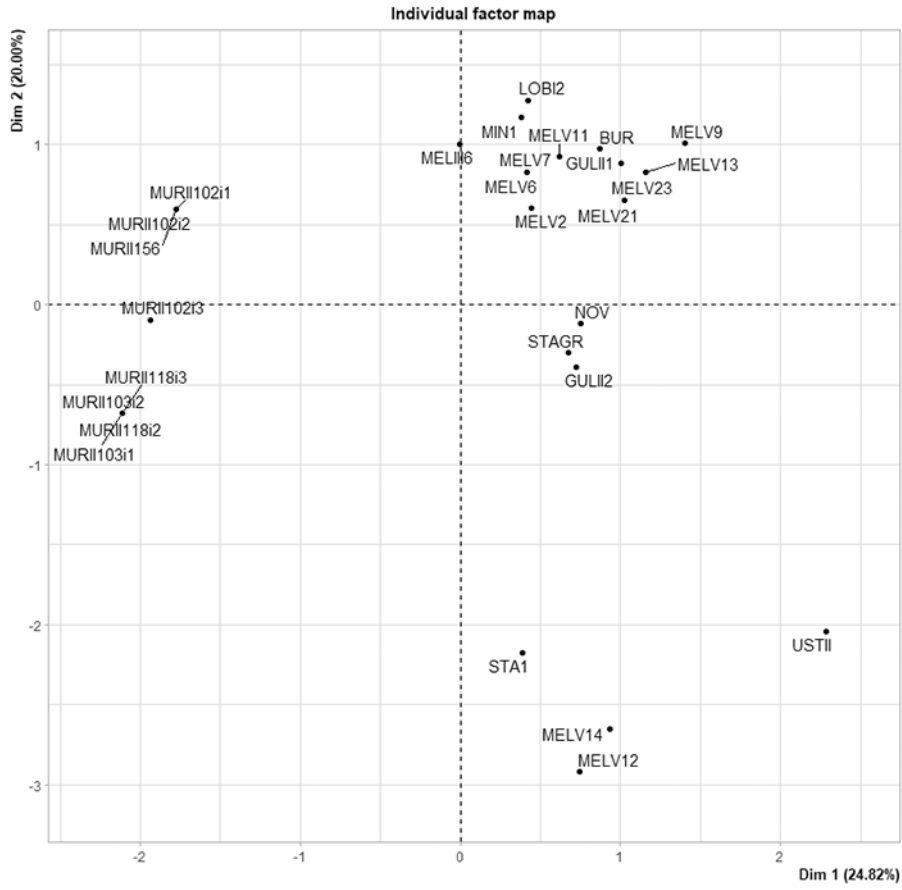


Figure 25. Anthropological remains. Individual factor map. Initial result.

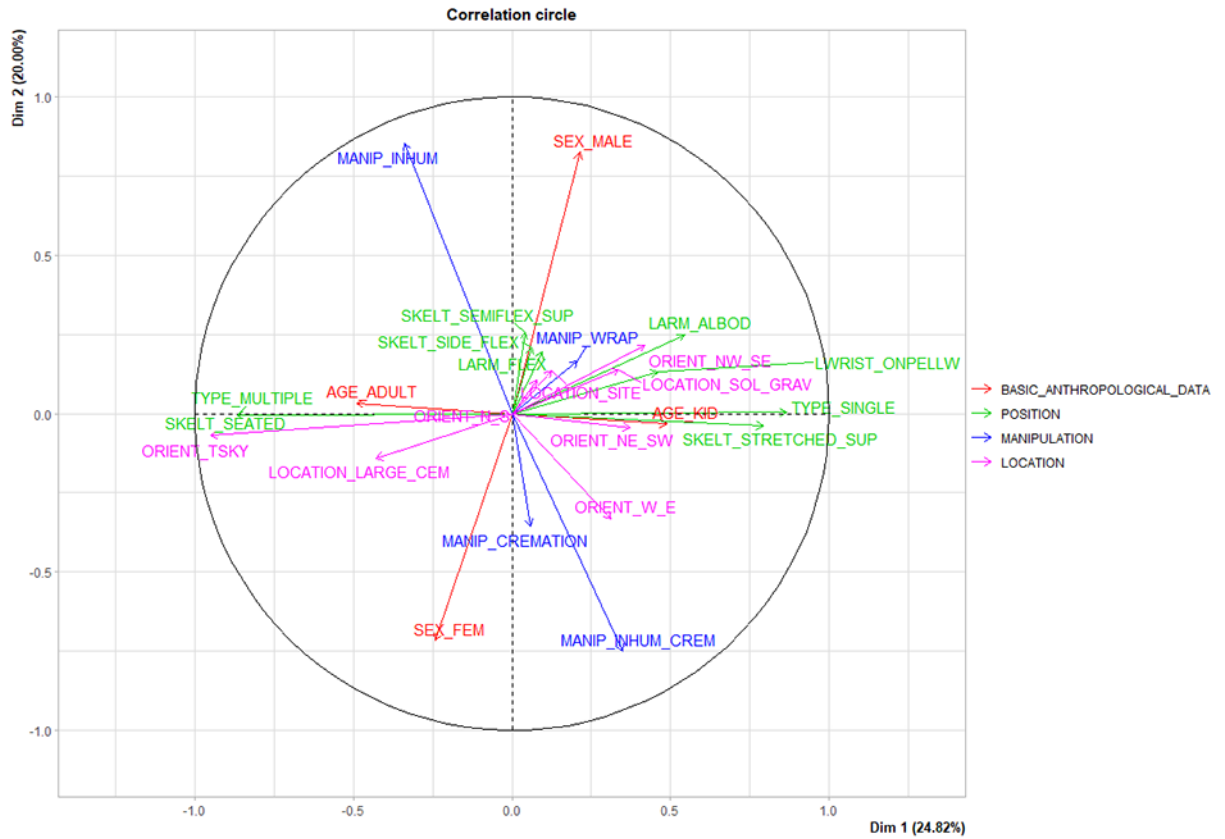


Figure 26. Anthropological remains. Correlation circle. Initial result.

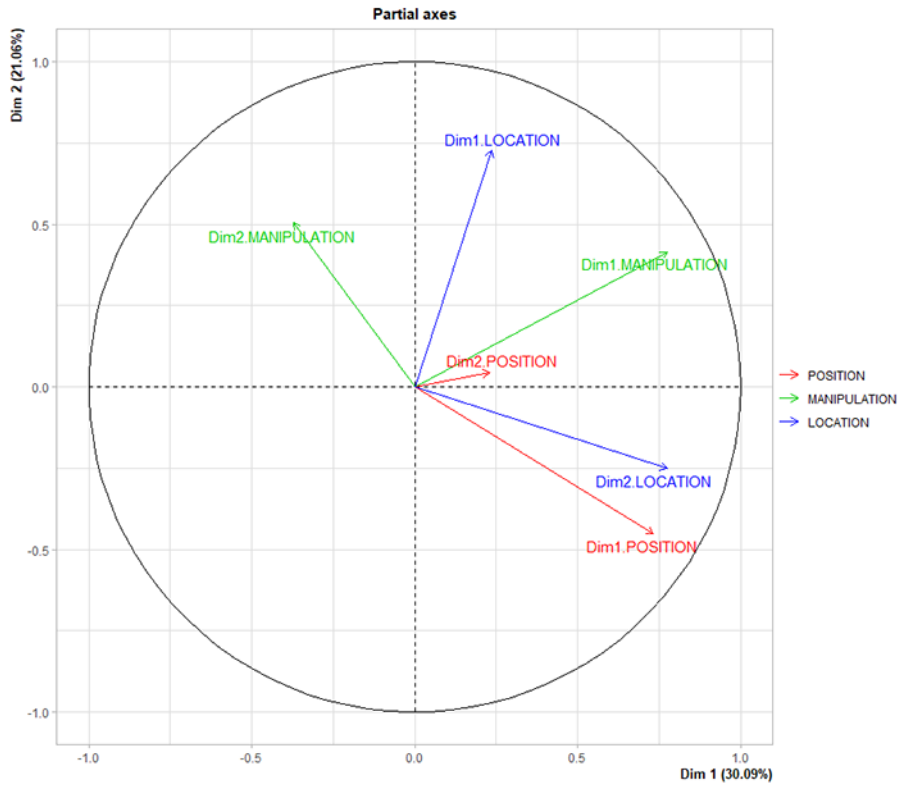


Figure 27. Anthropological remains. Partial axes.

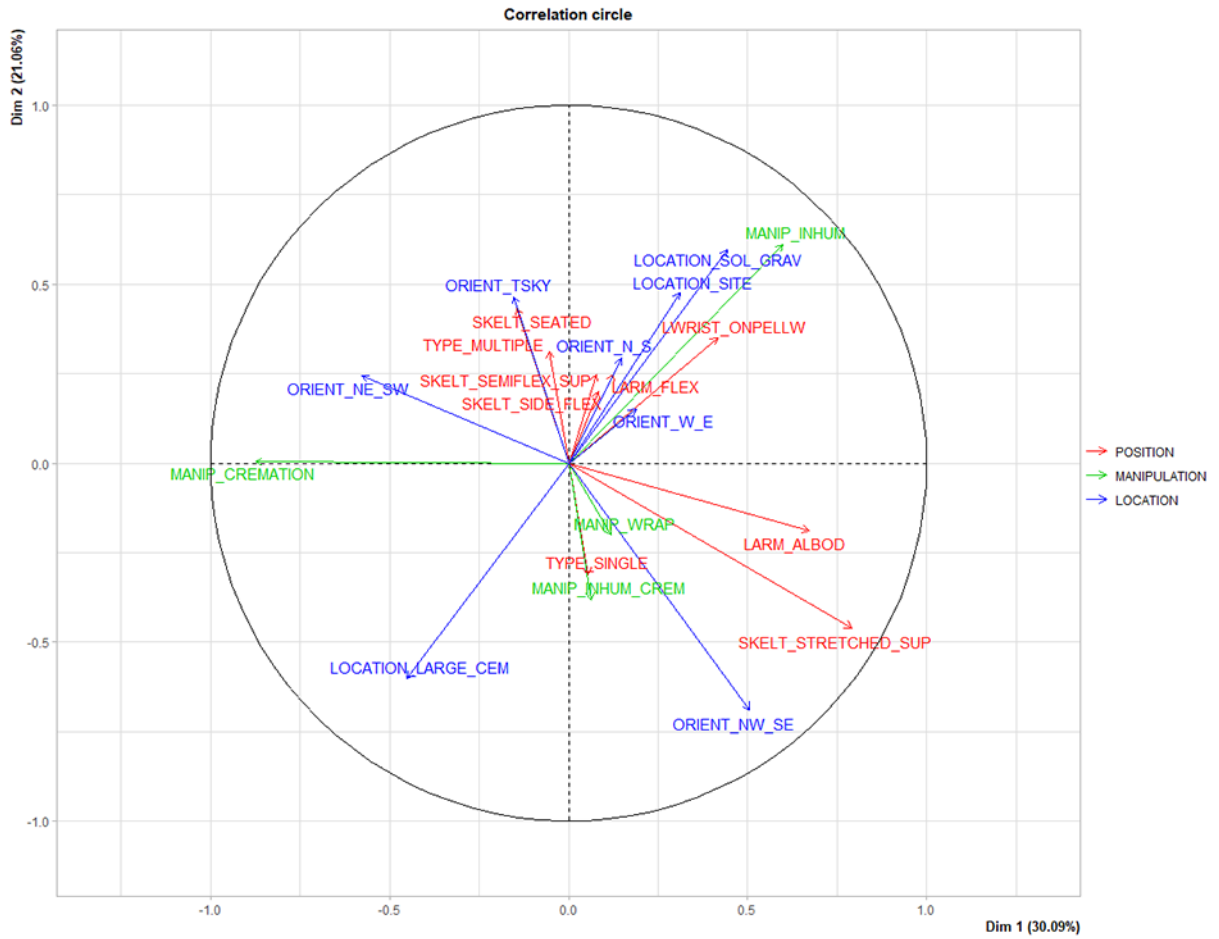


Figure 28. Anthropological remains. Correlation circle.

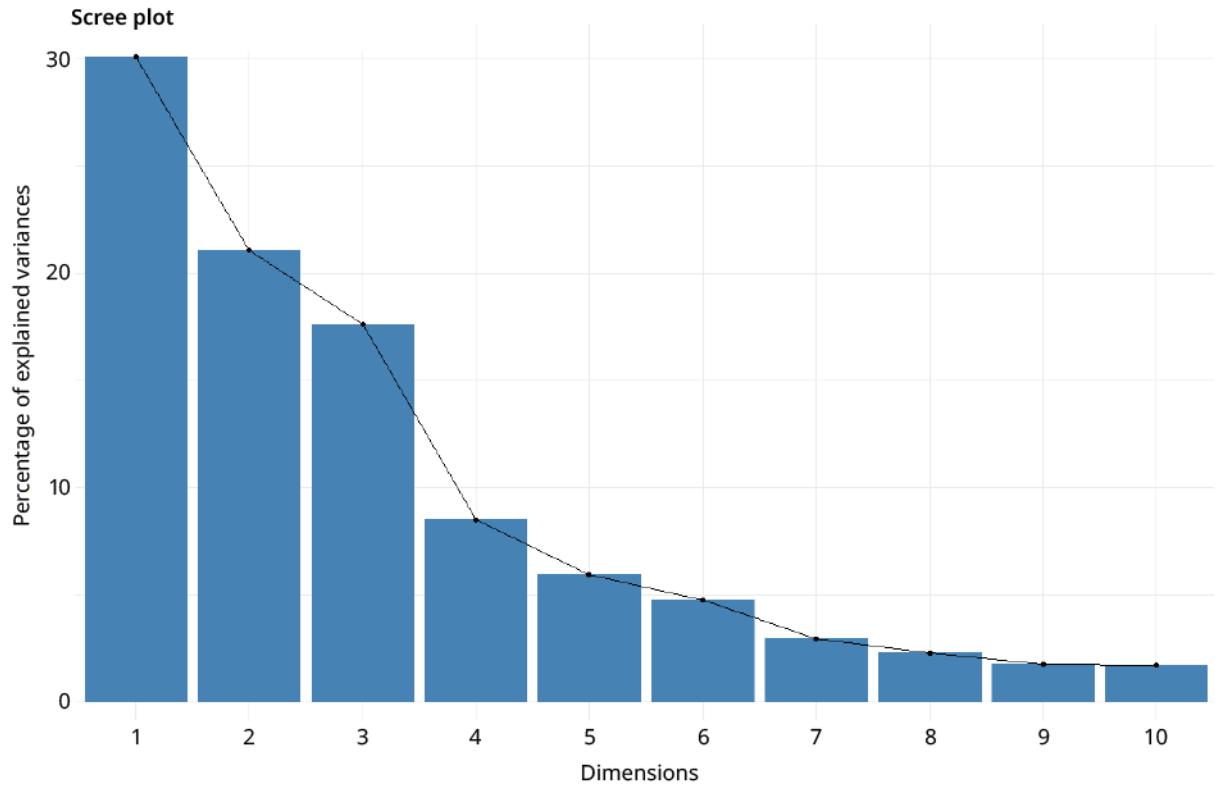


Figure 29. Anthropological remains. Scree plot.

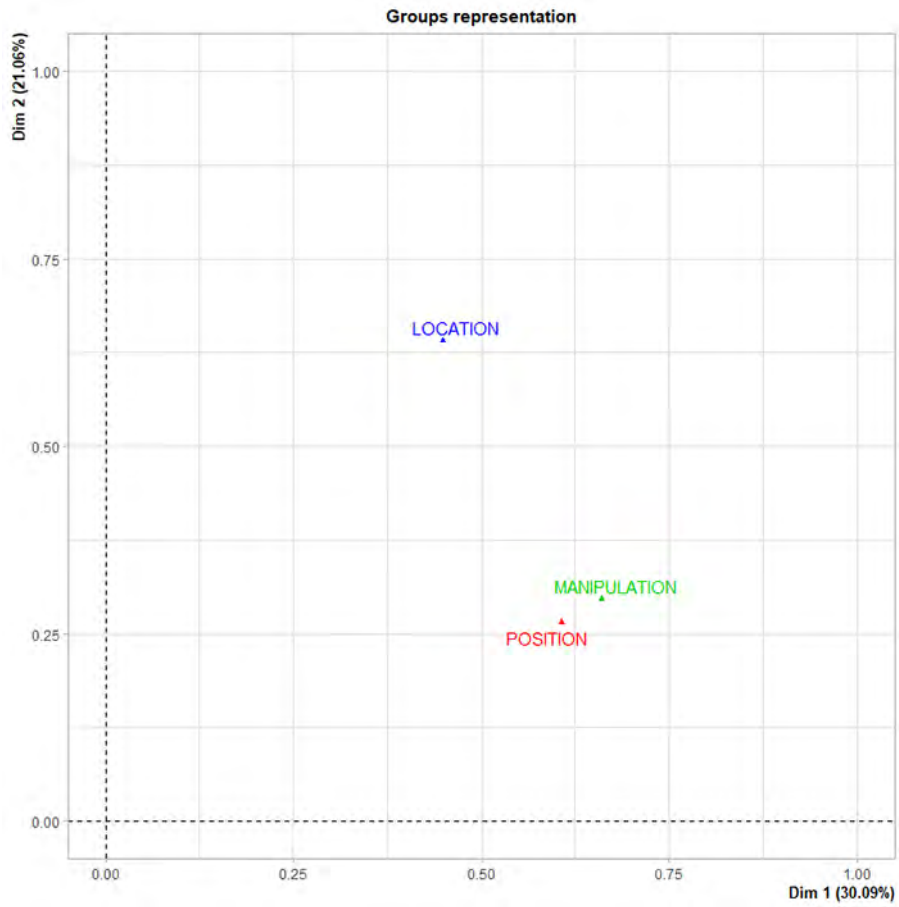


Figure 30. Anthropological remains. Group representation.

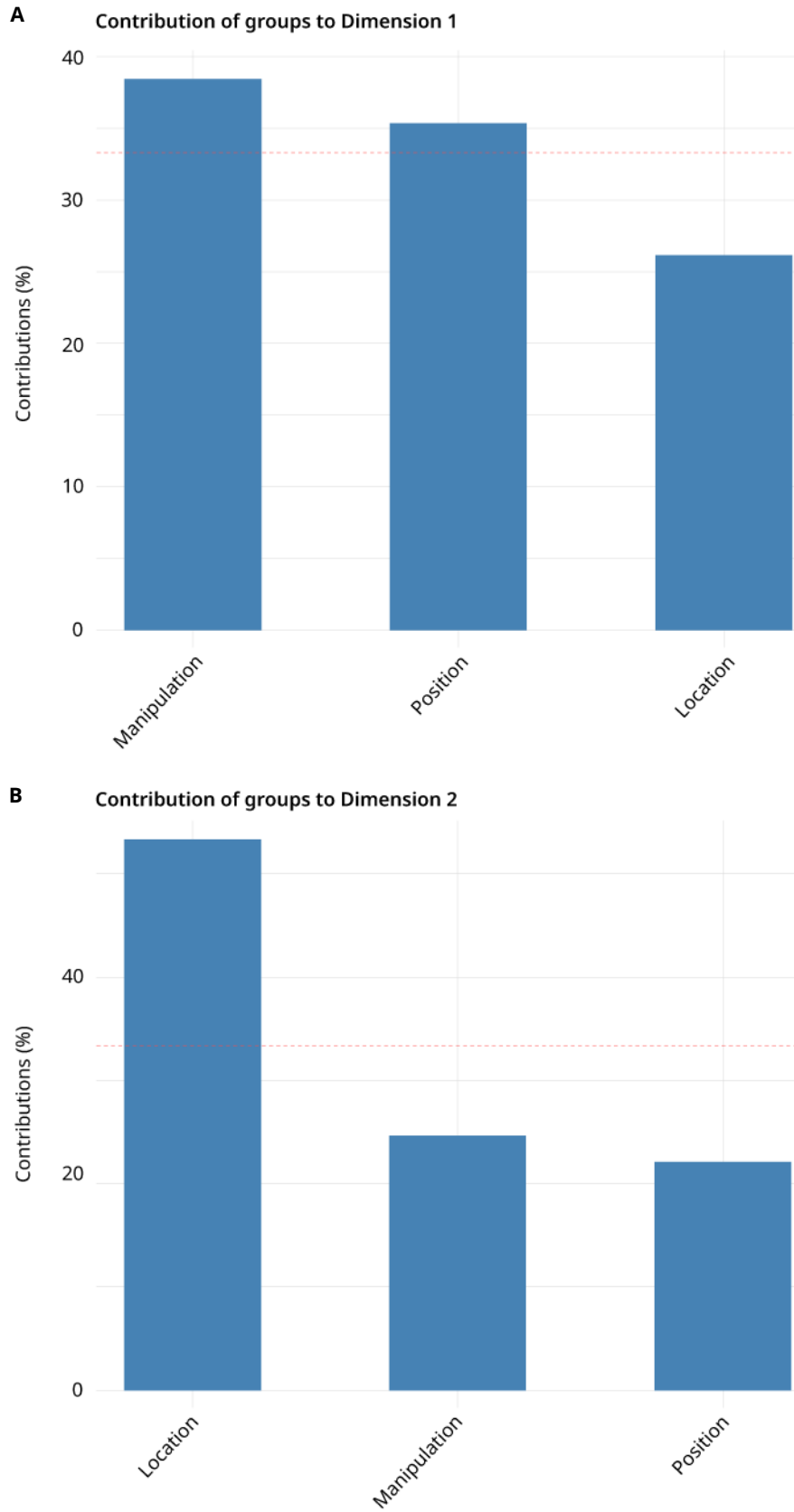


Figure 31A, B. Anthropological remains. Contribution of groups to both dimensions. A: Contribution of groups to dimension 1. B: Contribution of groups to dimension 2.

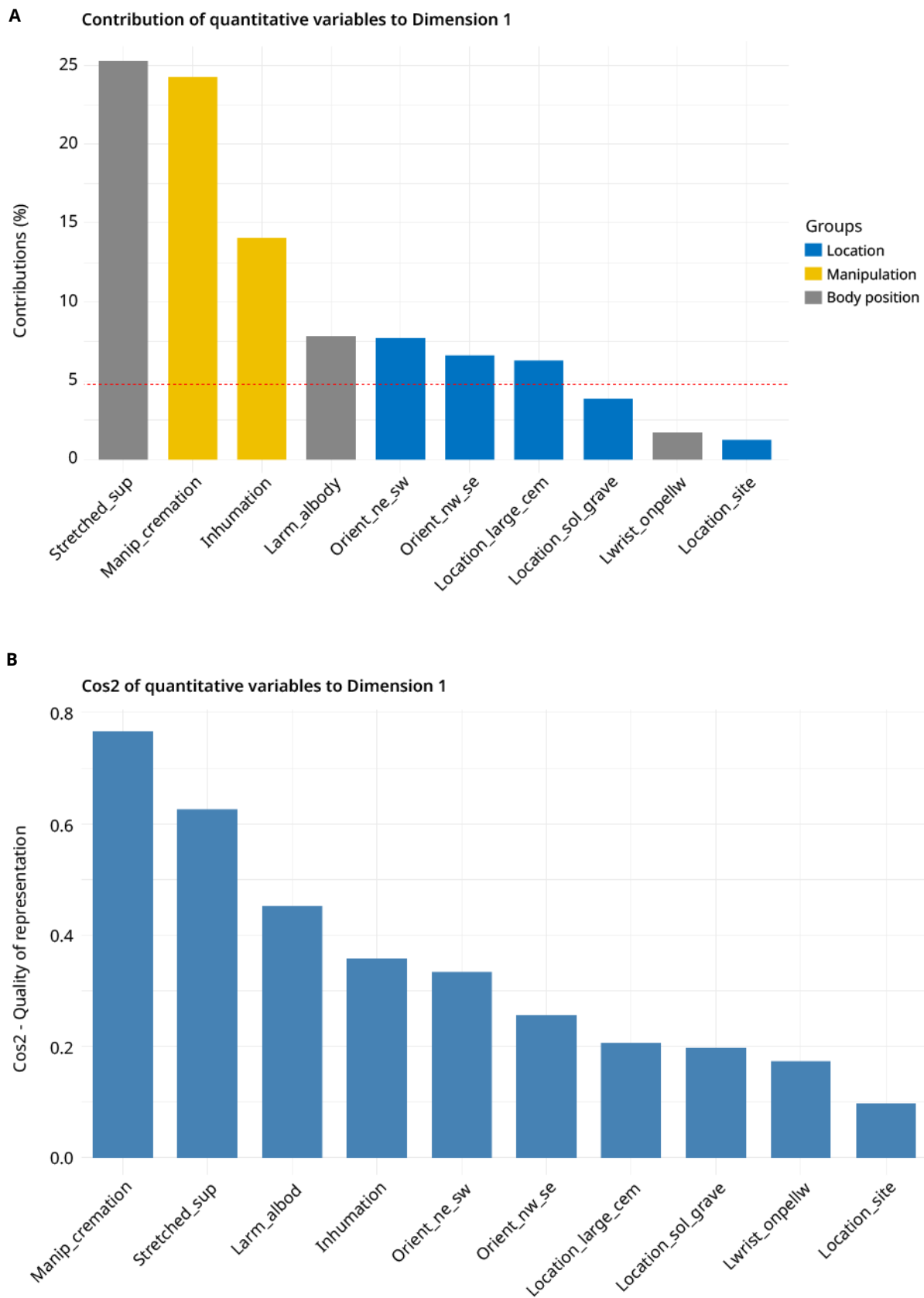


Figure 32A, B. Anthropological remains. A: Contribution of variables to the 1st dimension. B: Quality of representation of the variables of the principal components.

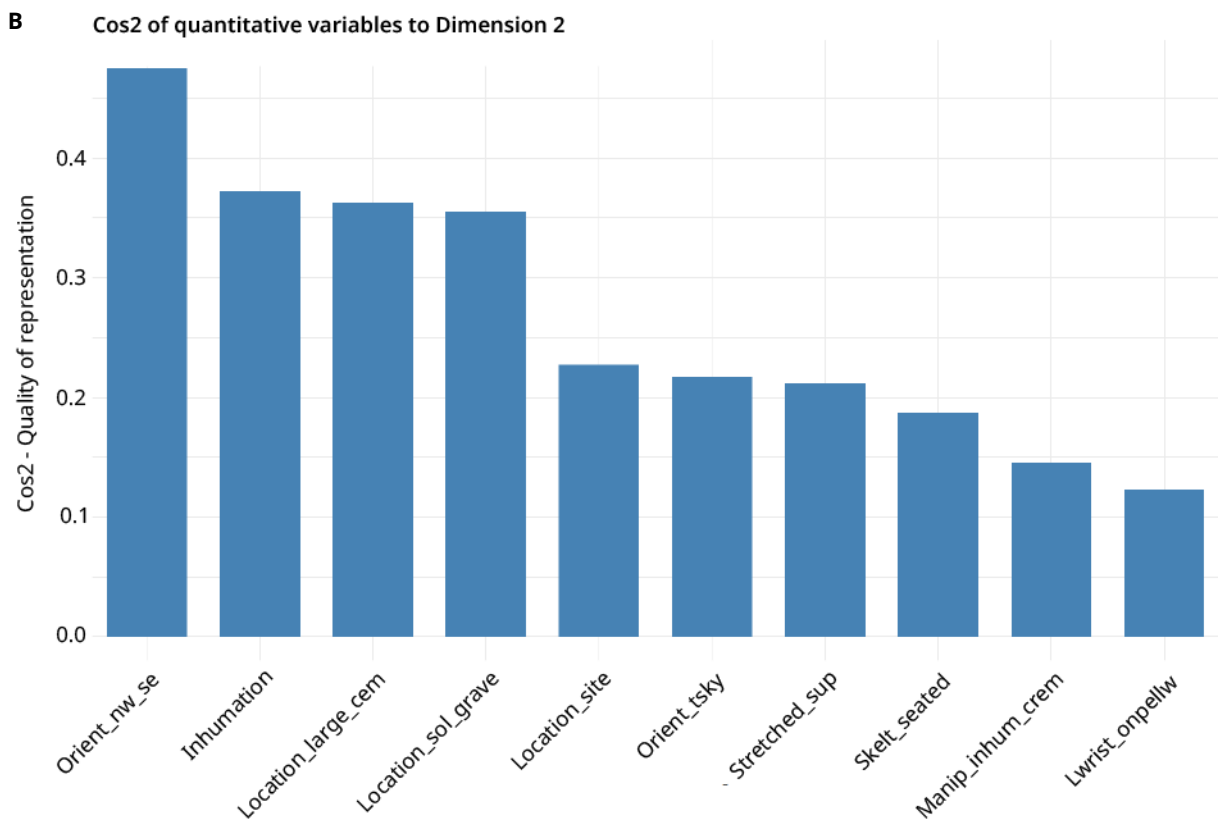
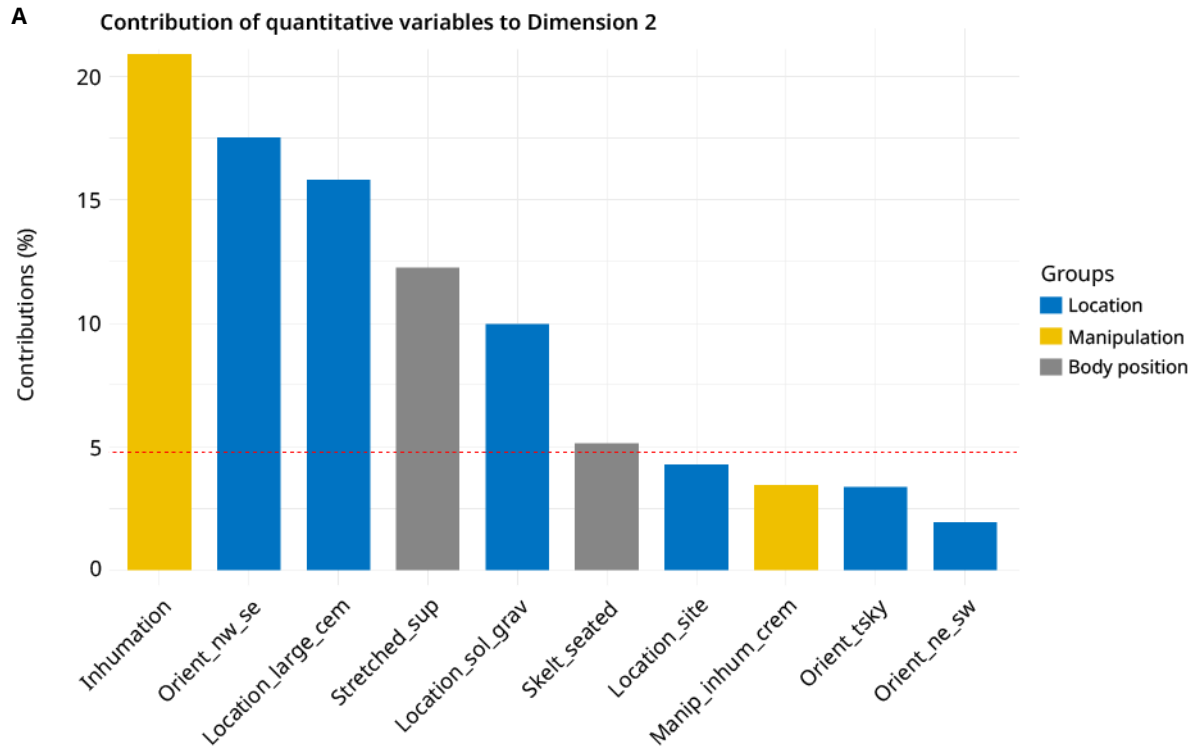


Figure 33A, B. Anthropological remains. A: Contribution of variables to the 2nd dimension. B: Quality of representation of the variables of the principal components.

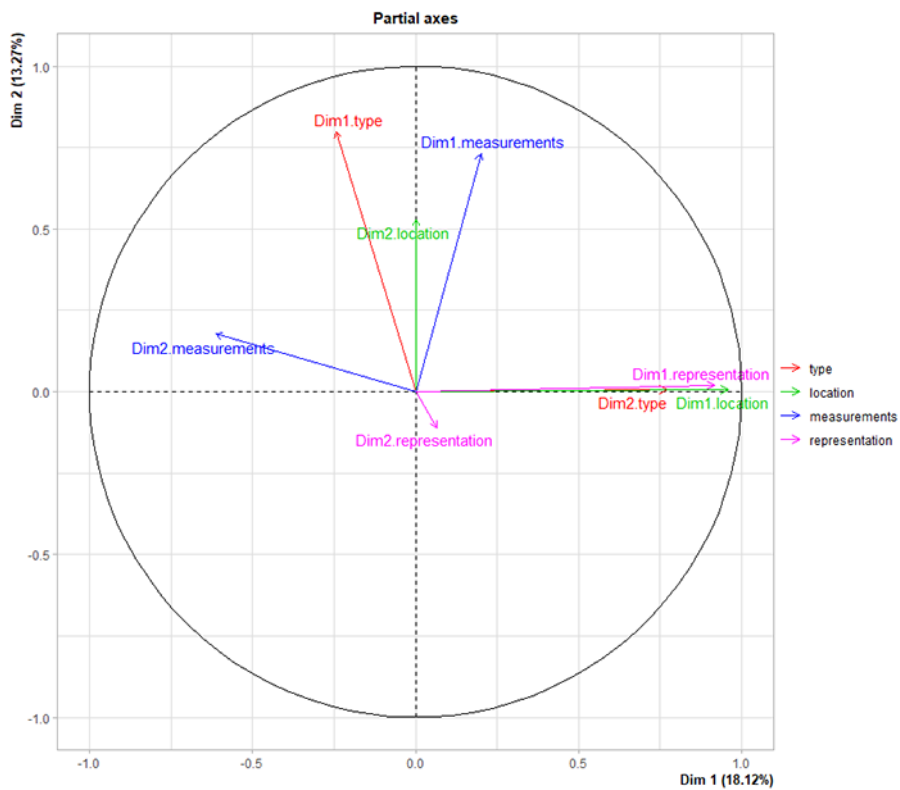


Figure 34. Accompanying burial features. Partial axes.

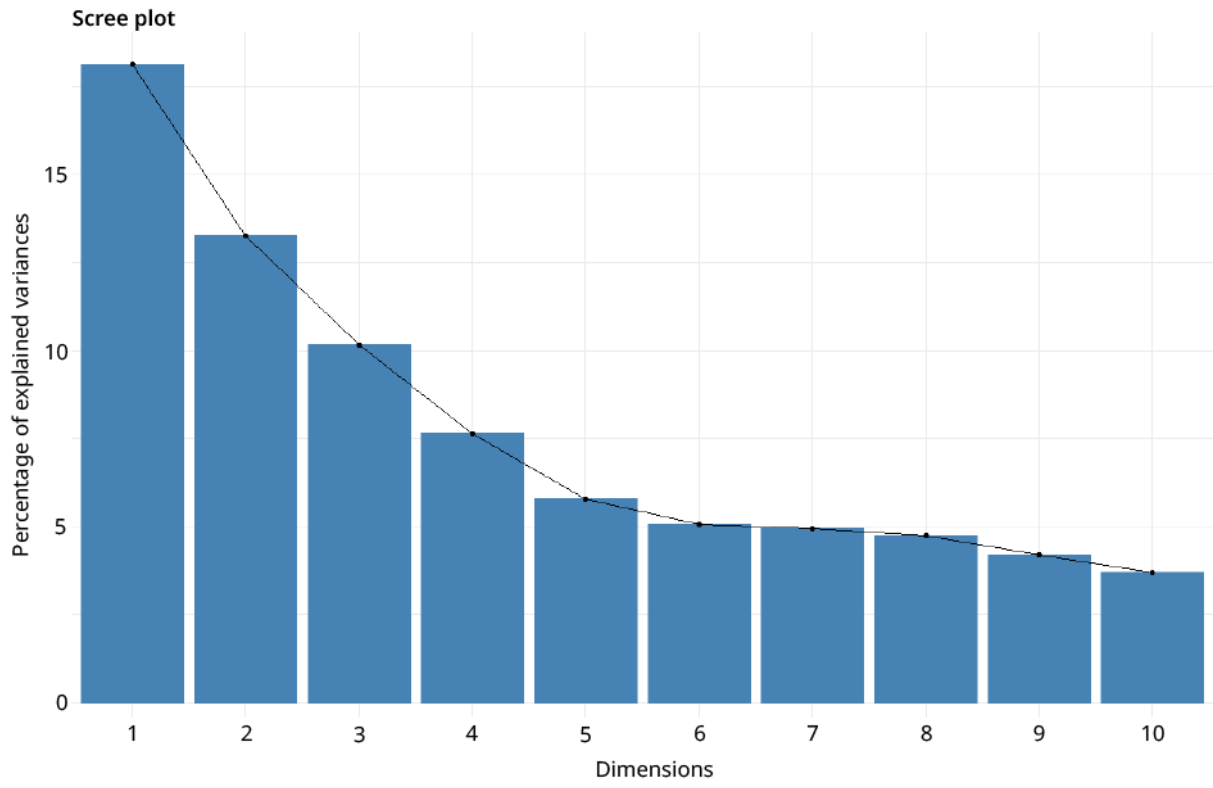


Figure 35. Accompanying burial features. Scree plot.

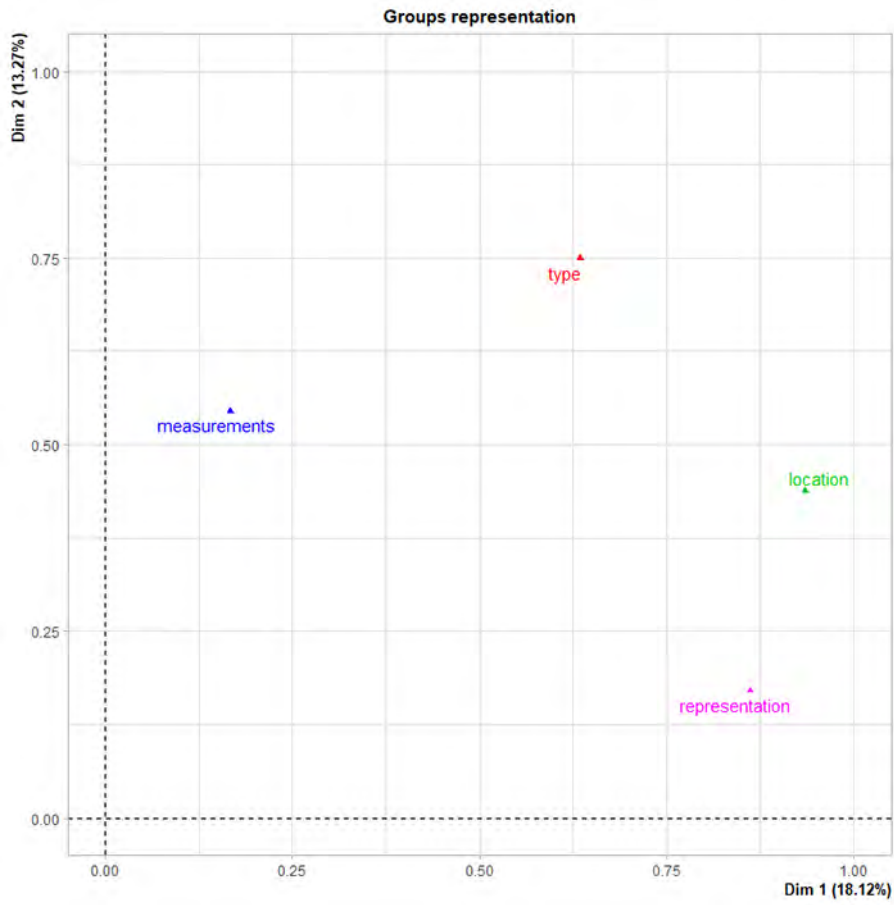


Figure 36. Accompanying burial features. Group representation.

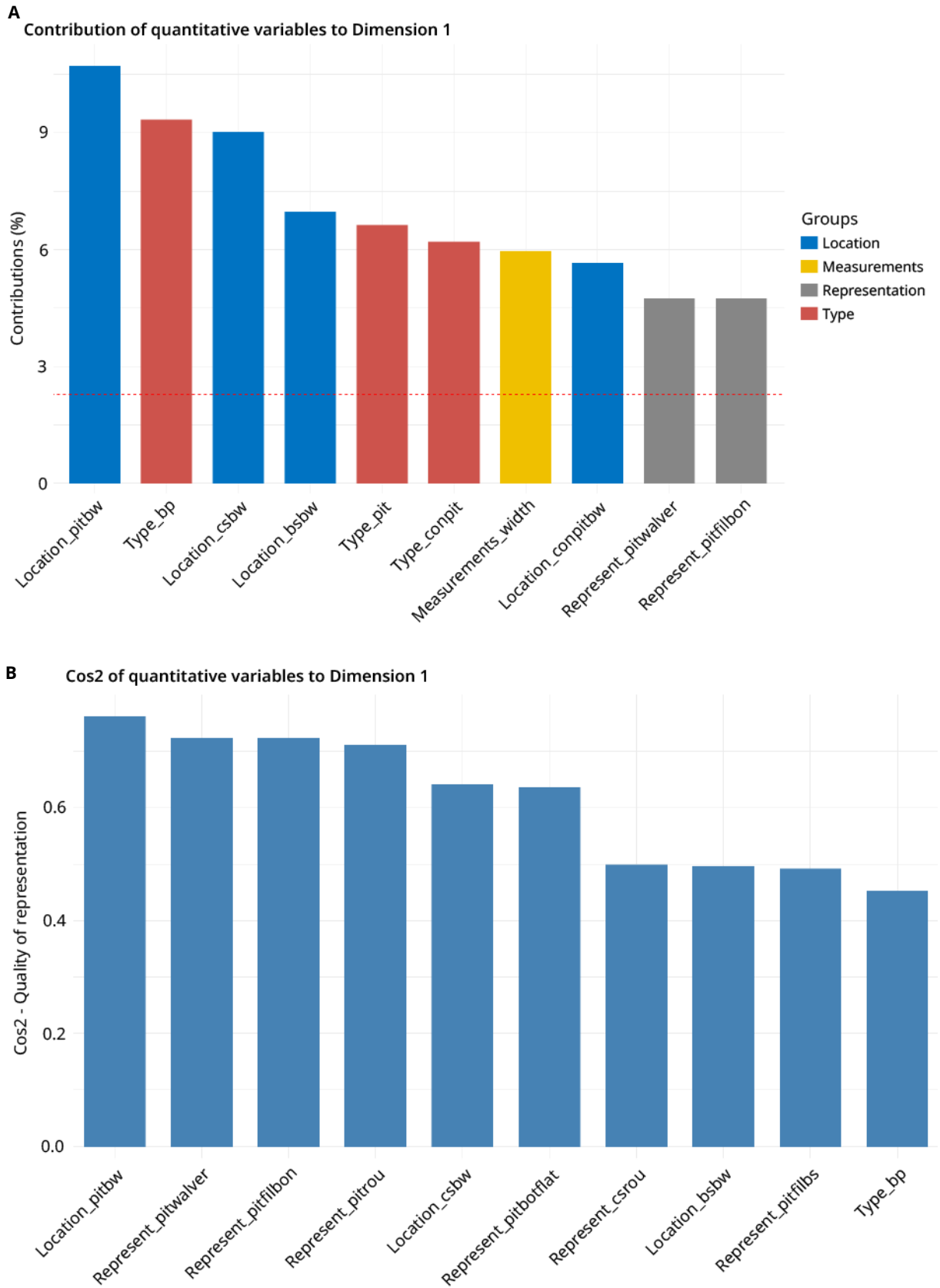


Figure 37A, B. Accompanying burial features. A: Contribution of variables to dimension 1. B: Quality of representation of the variables to dimension 1.

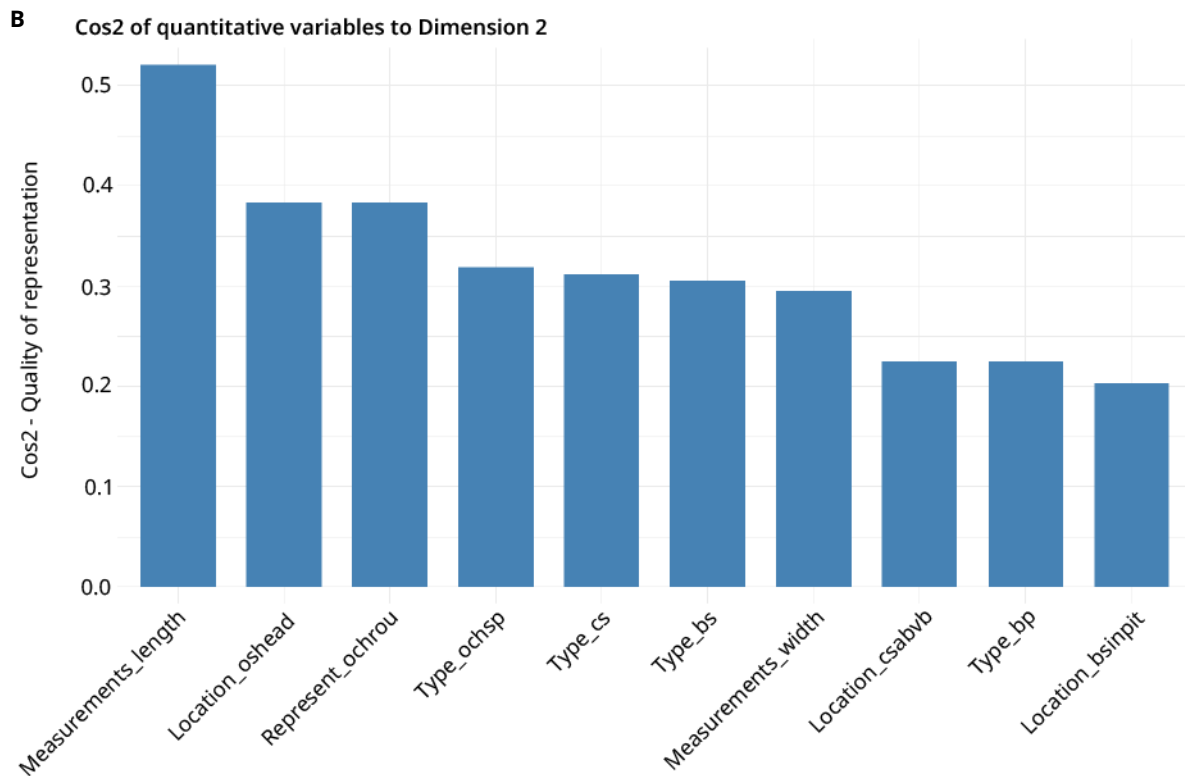
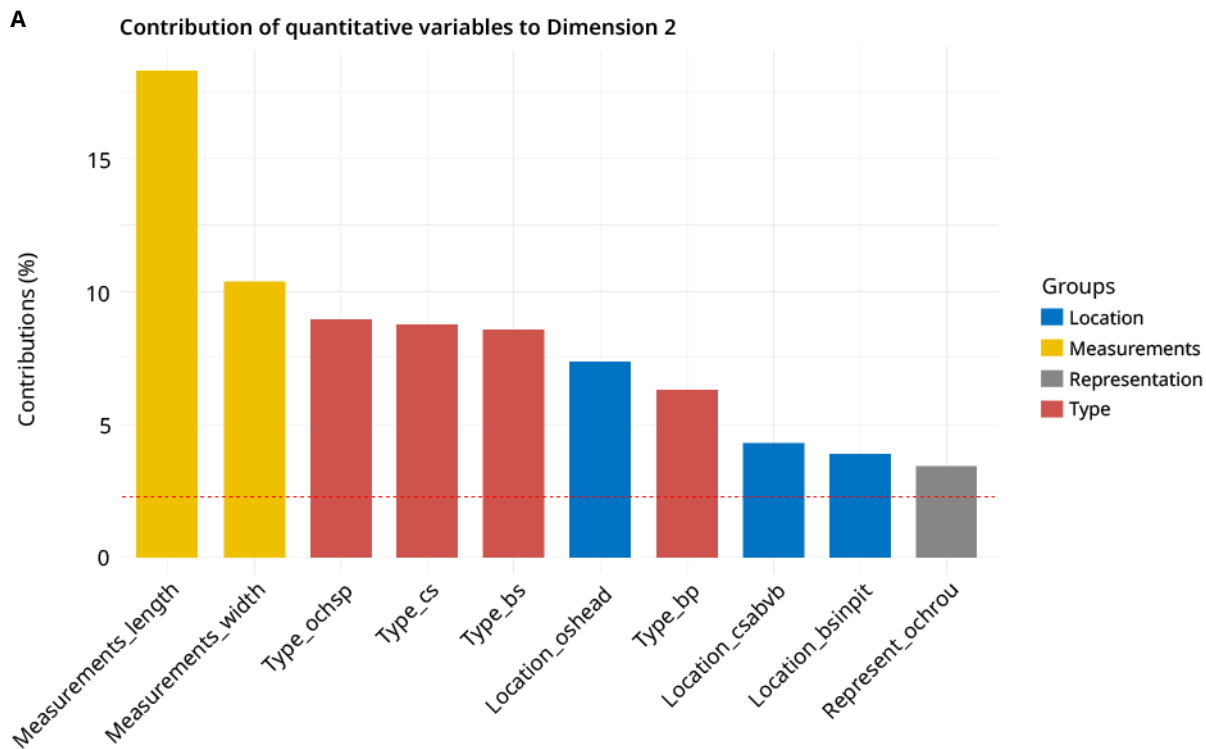


Figure 38A, B. Accompanying burial features. A: Contribution of variables to dimension 2. B: Quality of representation of the variables to dimension 2.

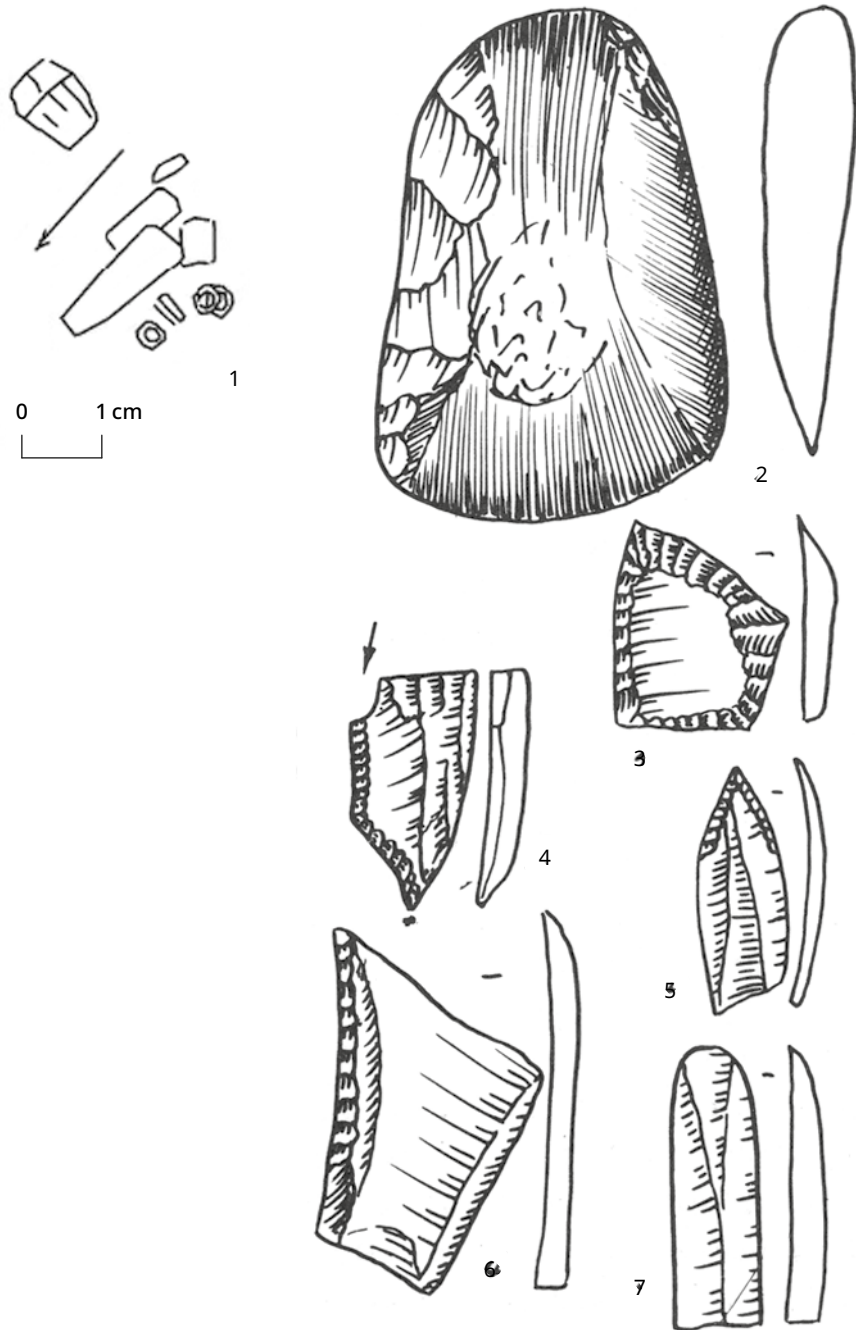


Figure 39. Neolithic burial kit (based on Nikitin 1996 reproduced here by courtesy of V. V. Nikitin; Rudenko 2003):  
 1 - Mellyatamak 3 grave 6, 2-7 - Dubovskoe 9.

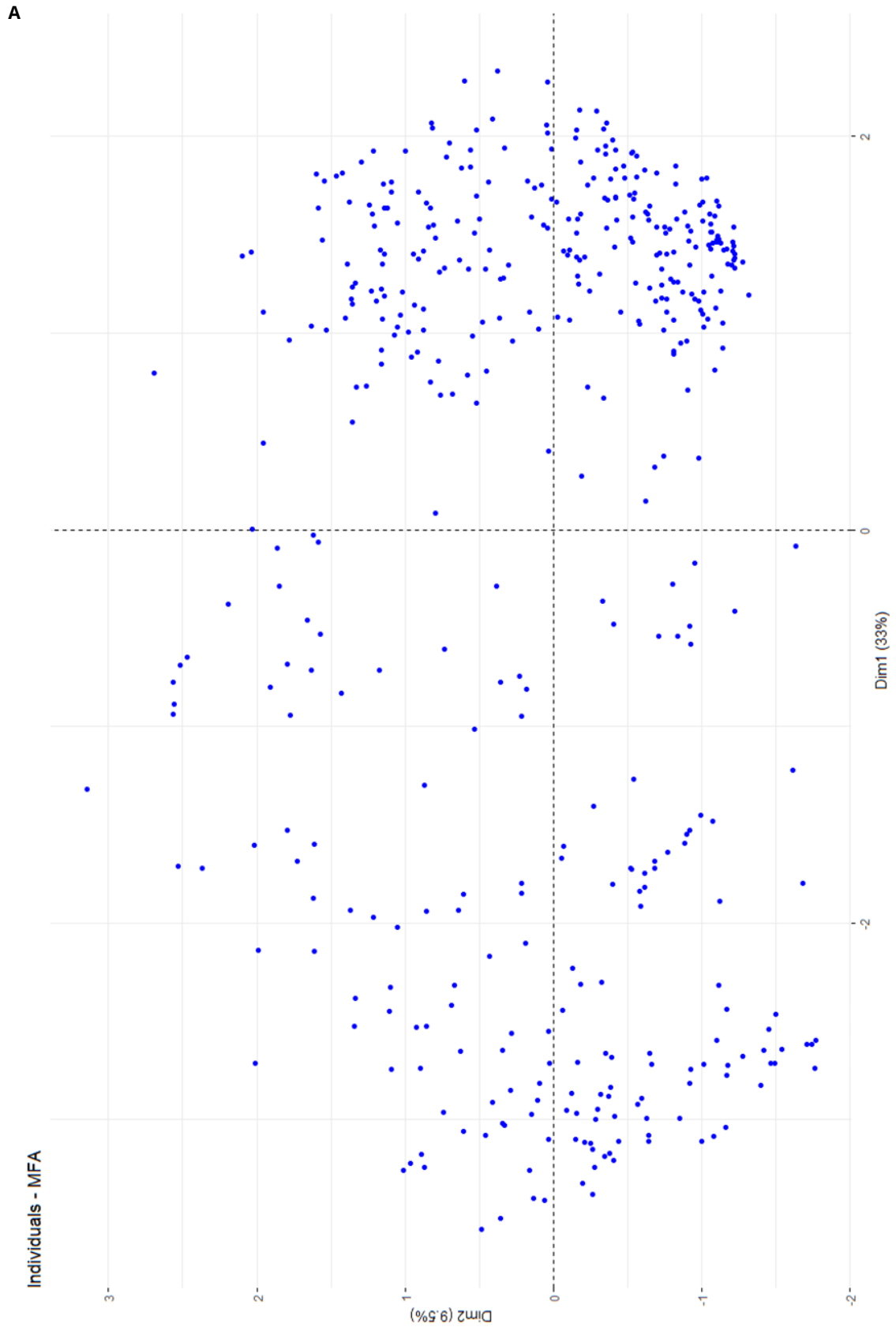


Figure 40A, B. Burial kits. Individuals factor map. The graves with amber (to the right) and with animal tooth pendants (to the left) are clearly visible. A: Without labels. B: With labels.



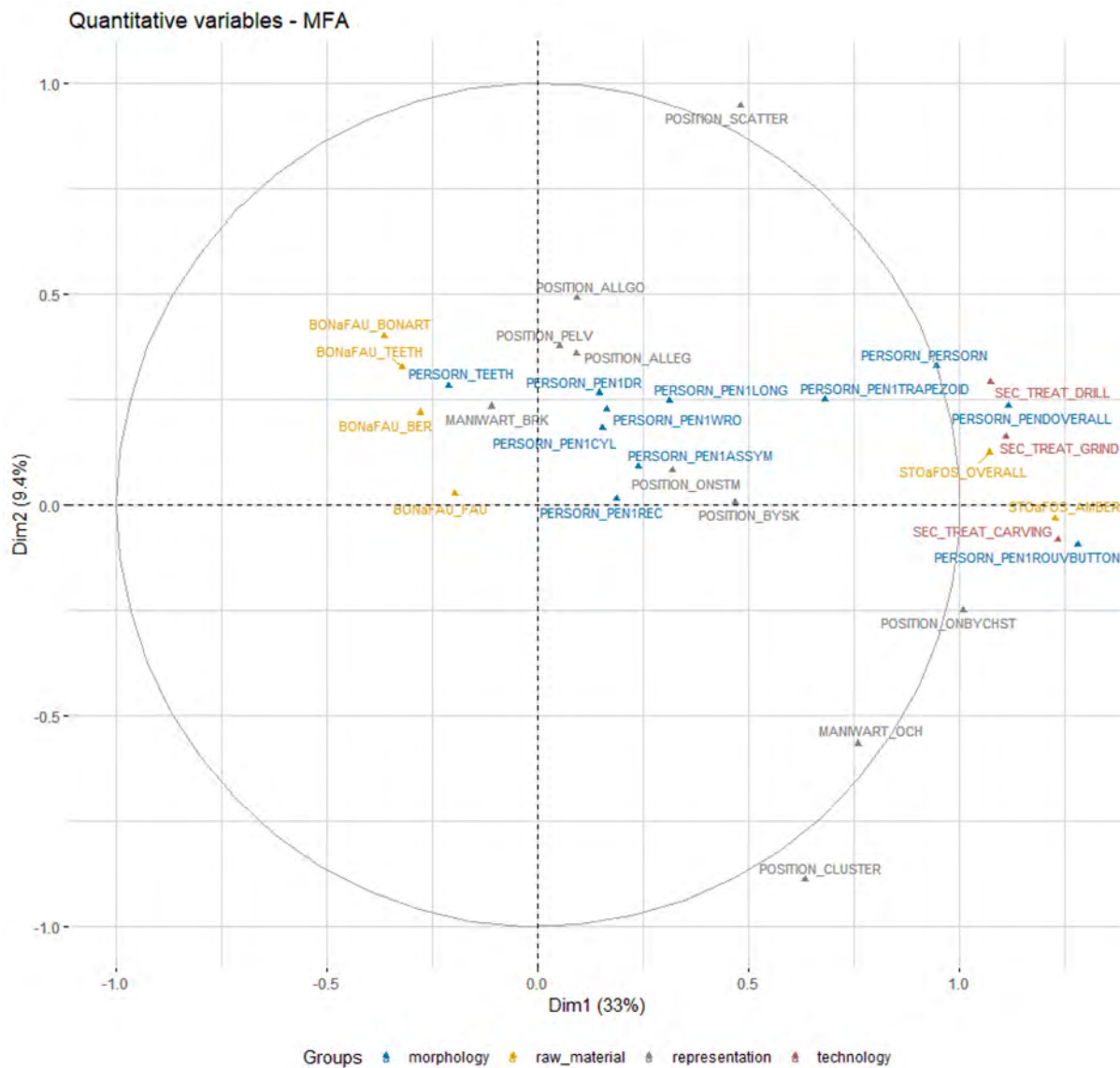


Figure 41. Burial kits. Test 1. MFA of quantitative variables.

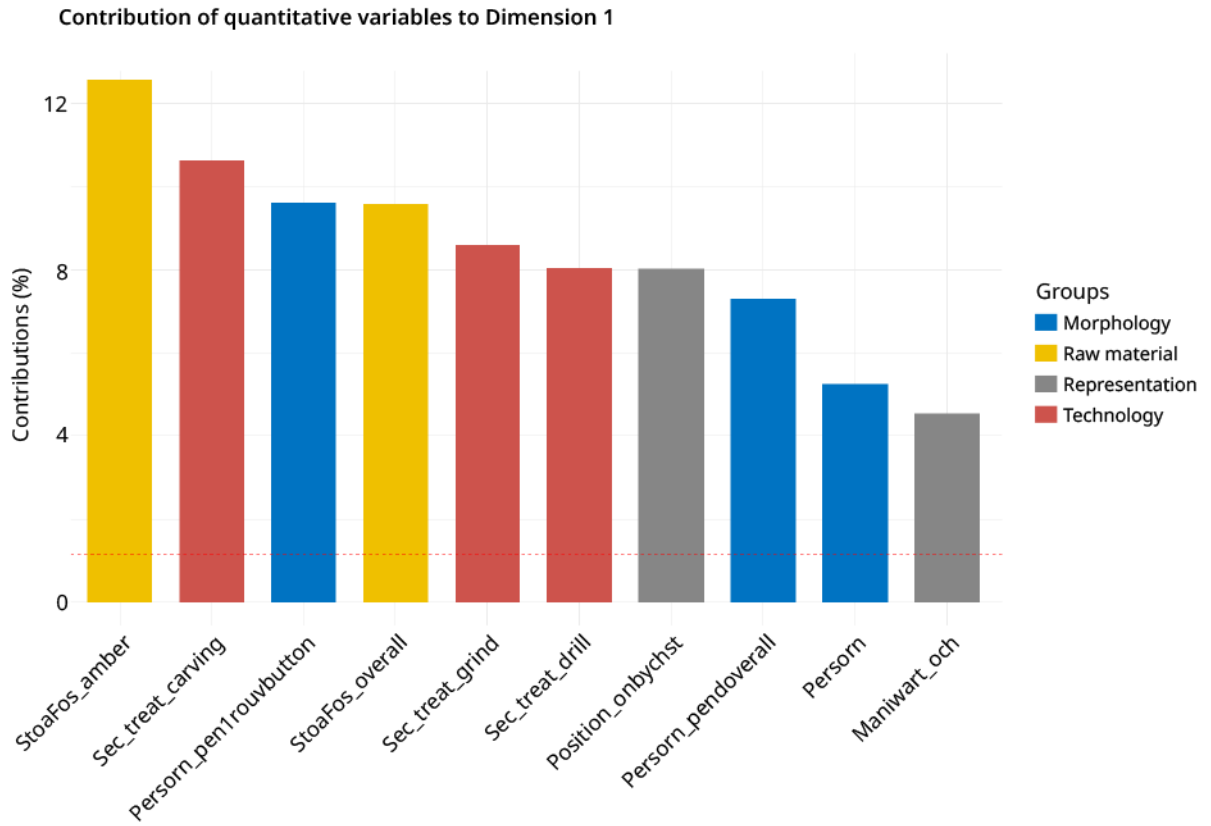


Figure 42. Burial kits. Test 1. Contribution of variables to the 1st dimension.

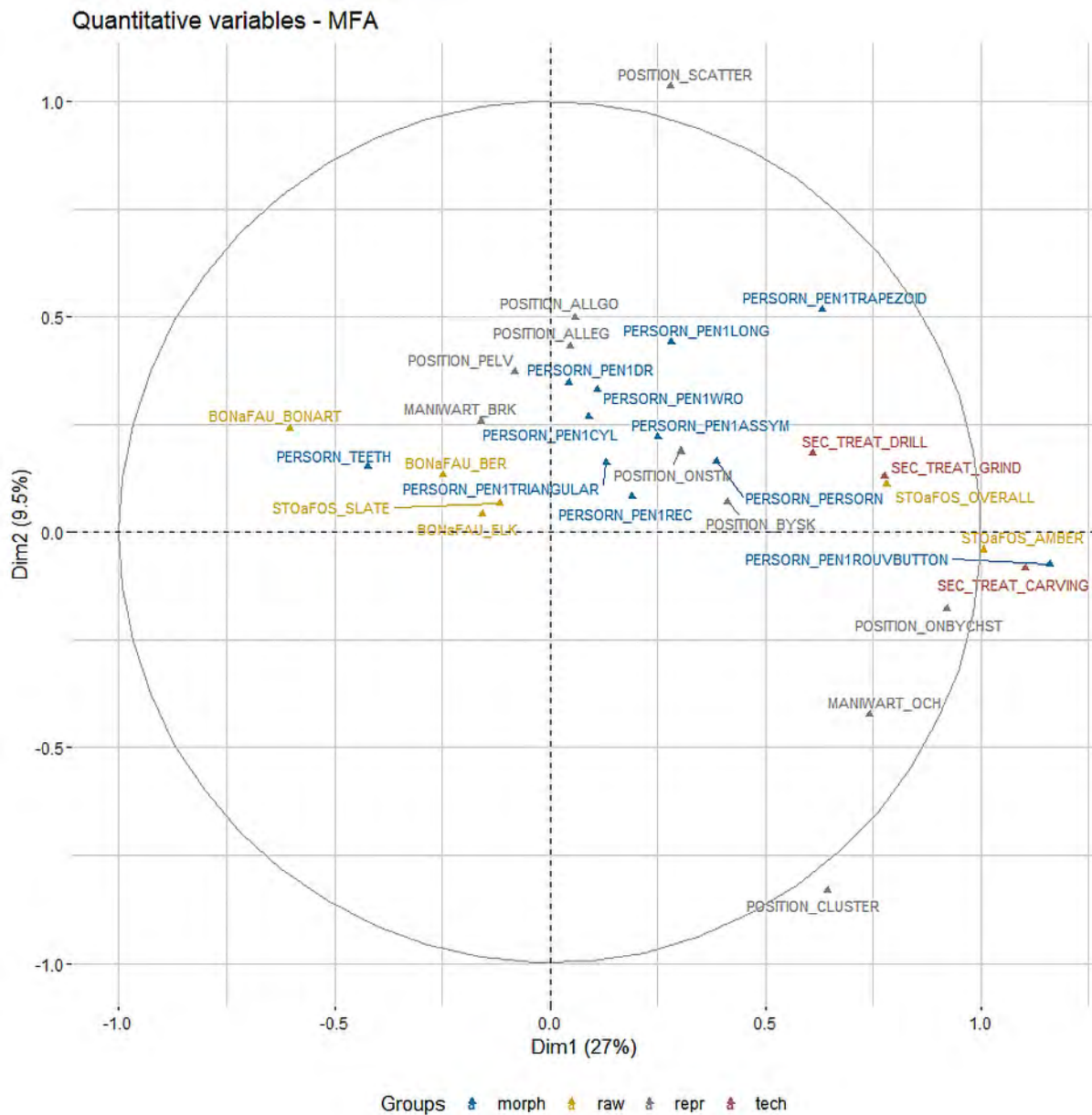


Figure 43. Burial kits. Test 2. Graves with pendants only. MFA of quantitative variables.

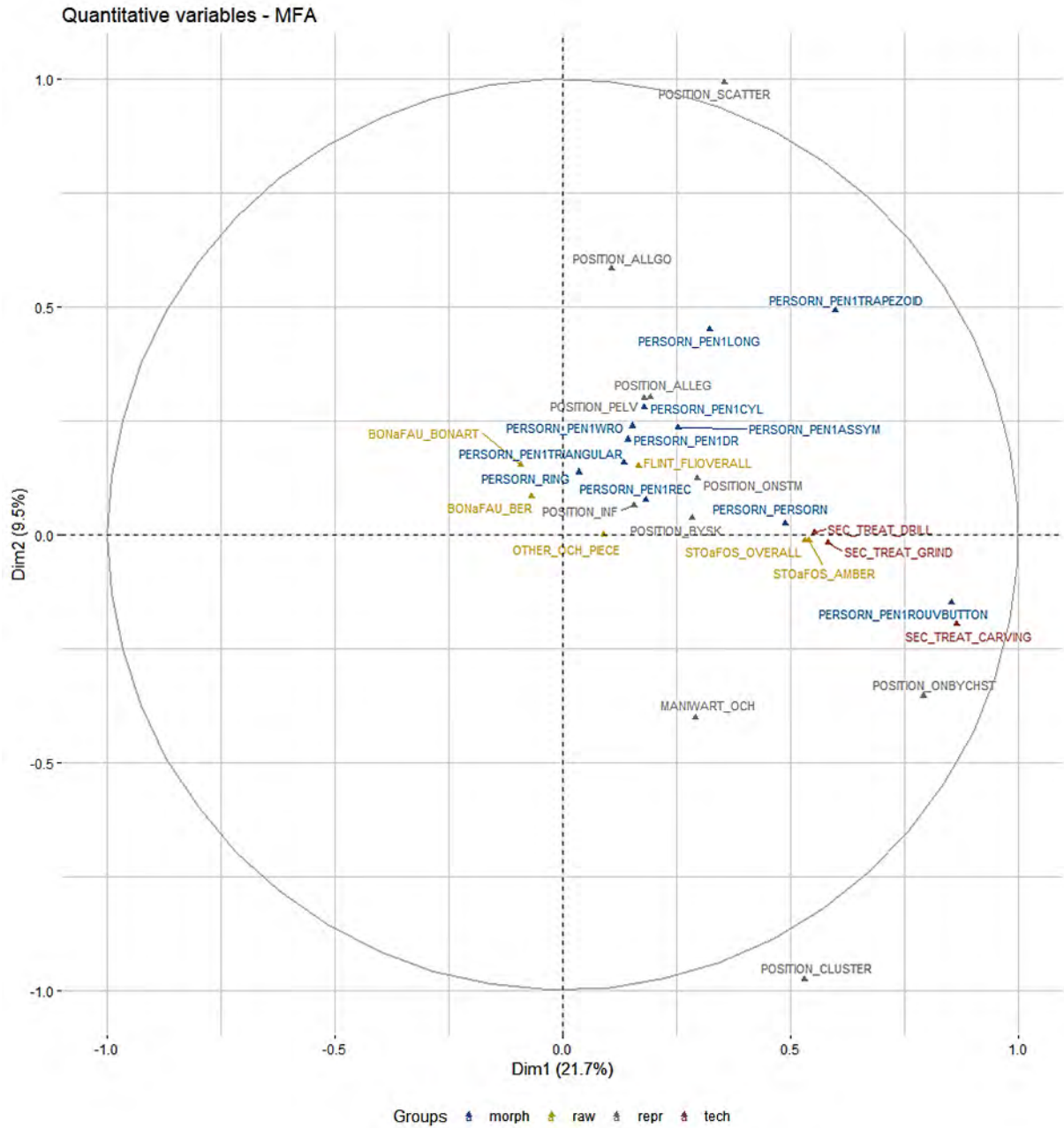


Figure 44. Burial kits. Graves with amber pendants only. MFA of quantitative variables.

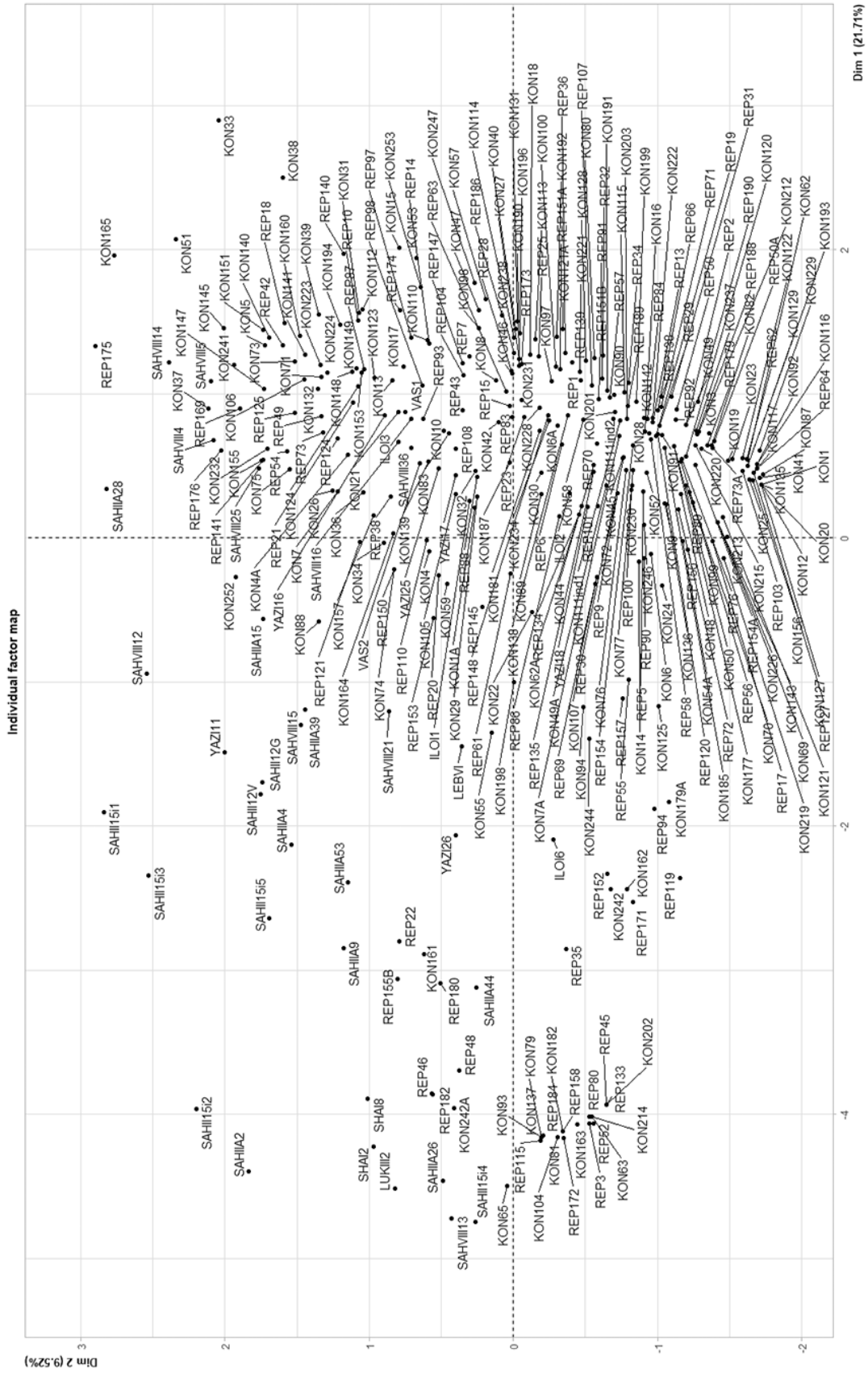


Figure 45. Burial kits. Graves with amber pendants only. MFA of individuals.

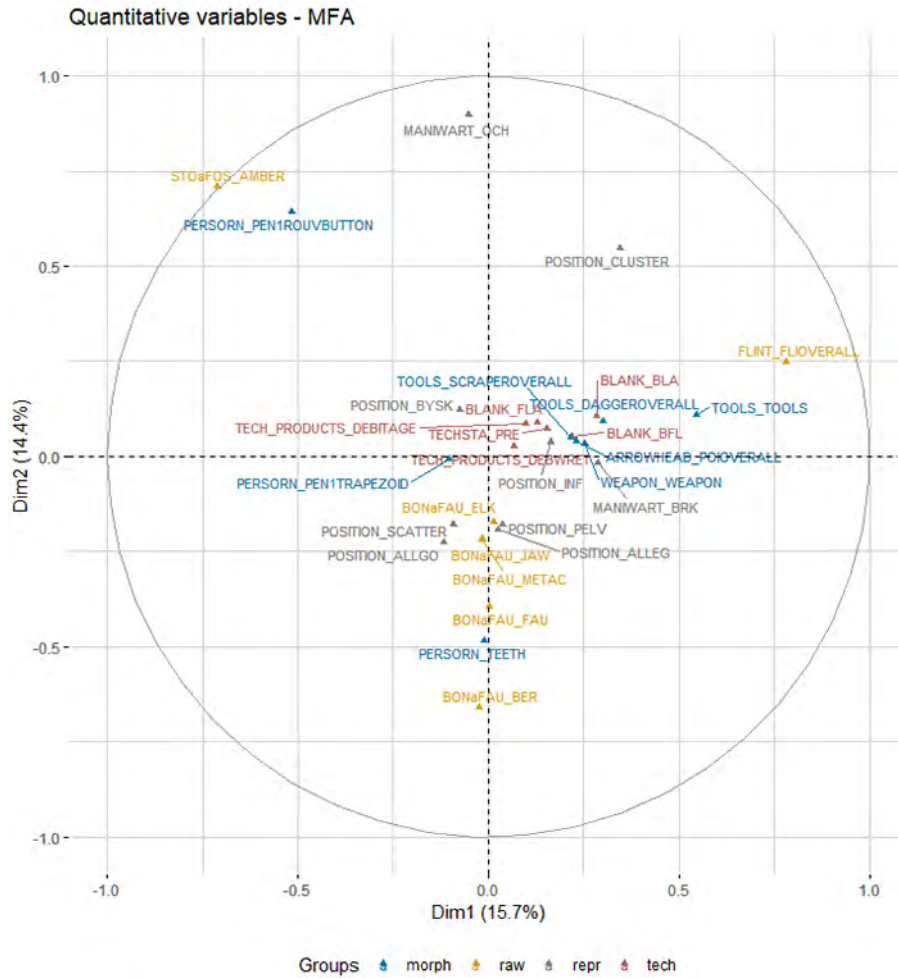


Figure 46. Burial kits. Least informative assemblages. MFA of variables.

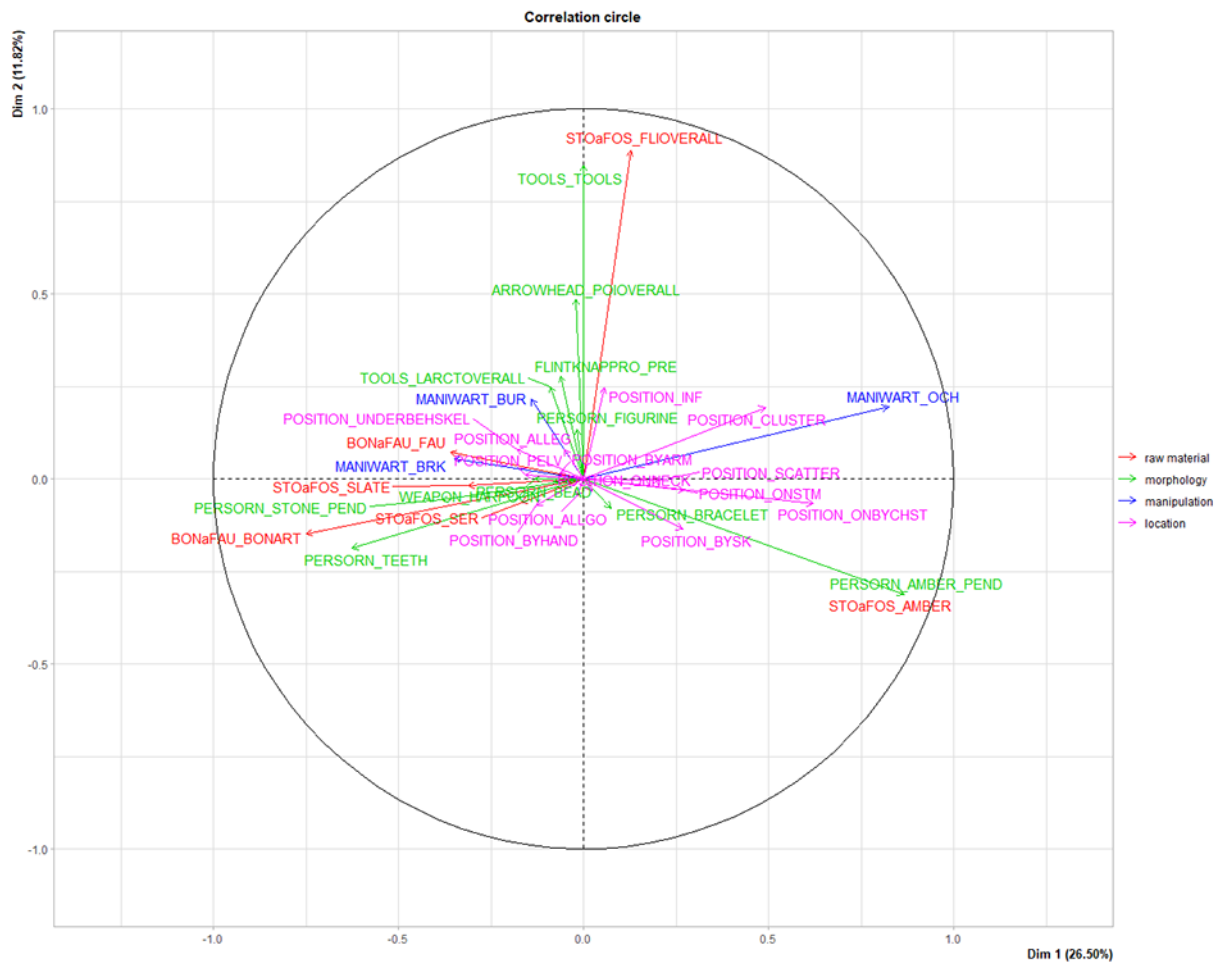


Figure 47. Burial kits. Final test. Correlation circle.

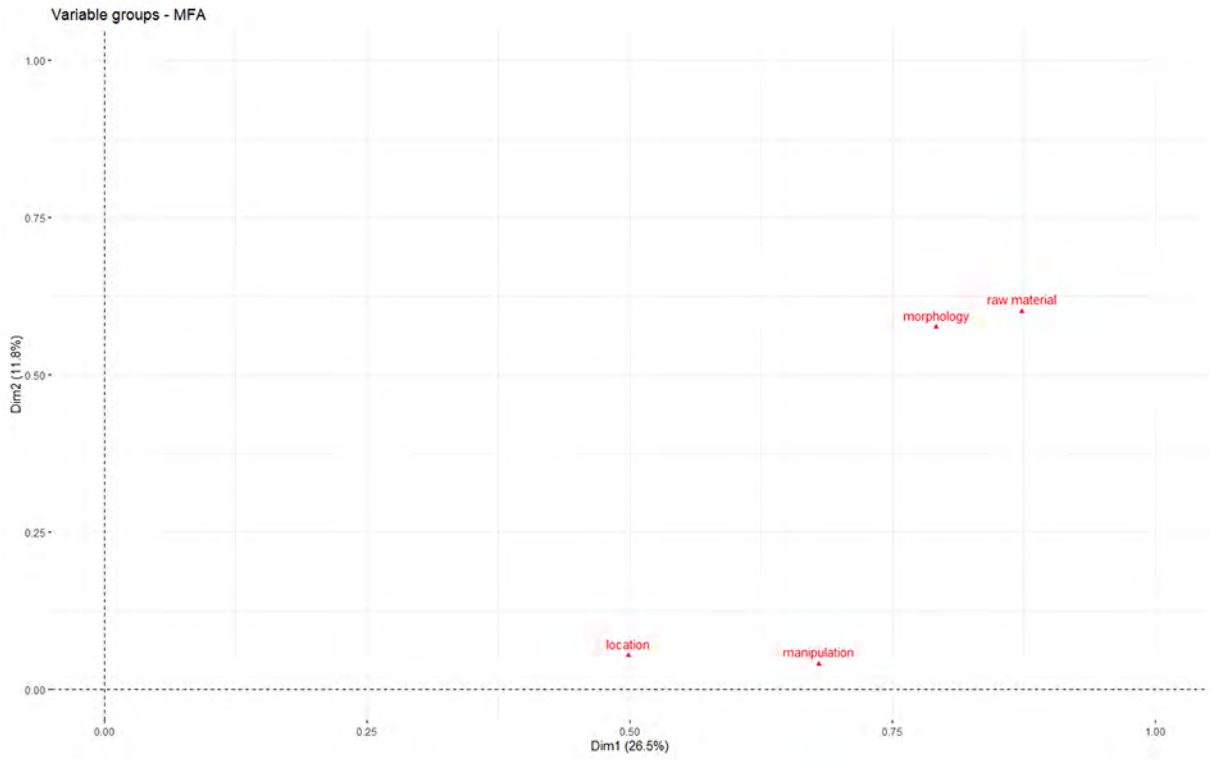


Figure 48. Burial kits. Final test. Group representation.

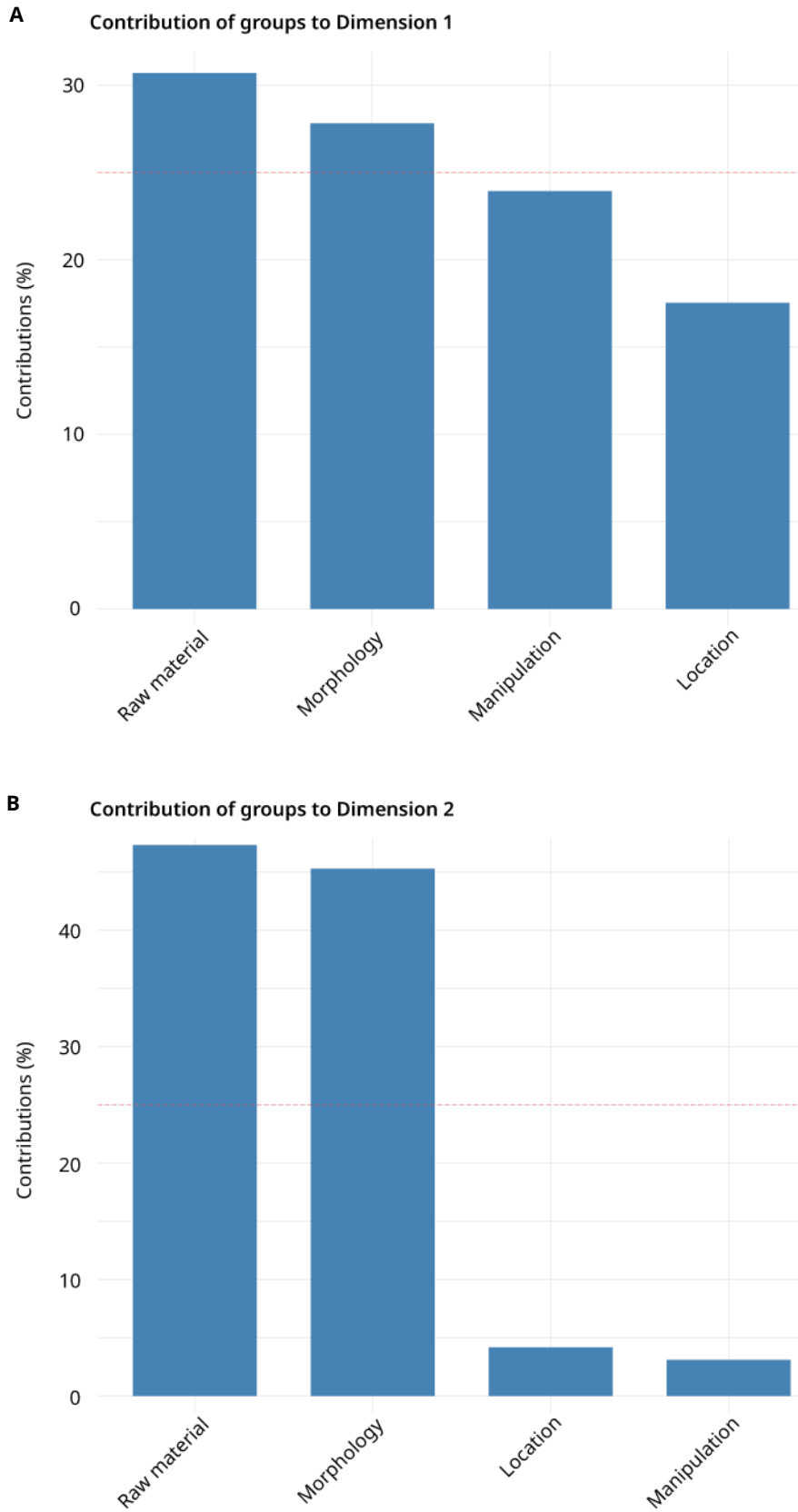
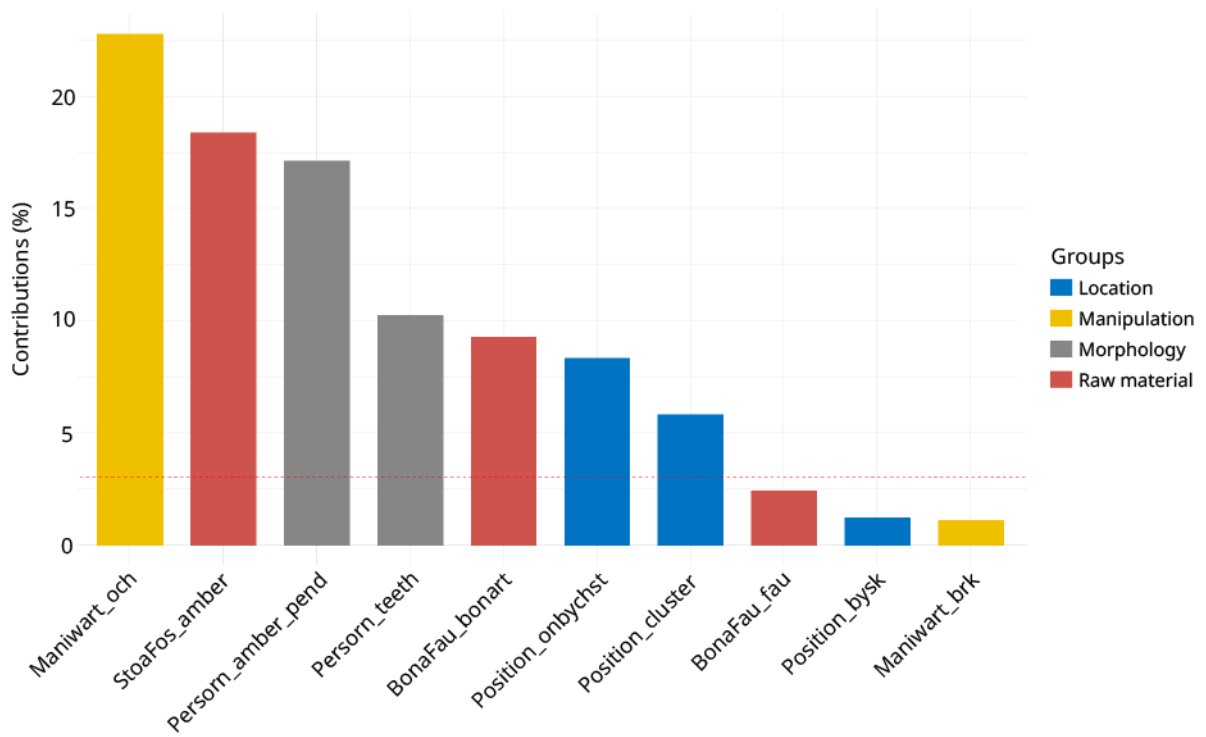


Figure 49A, B. Burial kits. Final test. A: Contribution of groups to the 1st dimension. B: Contribution of groups to the 2nd dimension.

**A** Contribution of quantitative variables to Dimension 1



**B** Cos2 of quantitative variables to Dimension 1

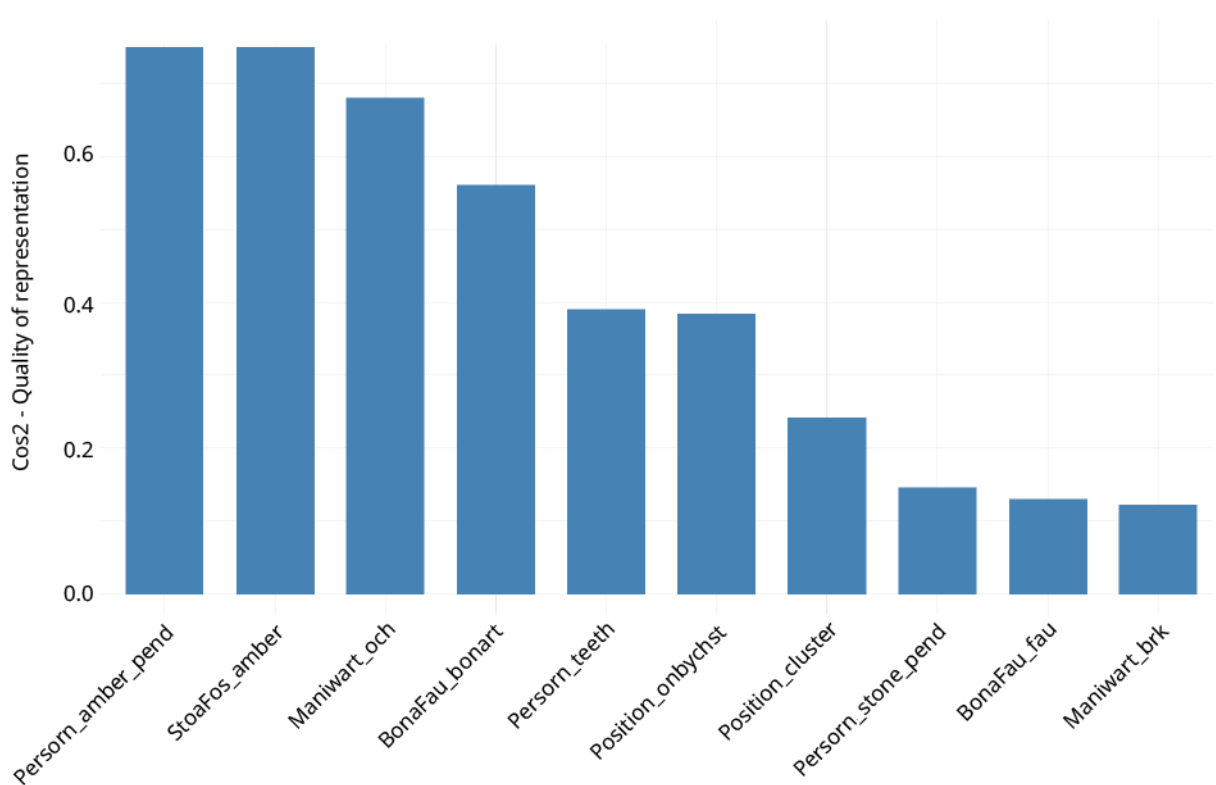


Figure 50A, B. Burial kits. A: Contribution of variables to the 1st dimension. B: The quality of representation of the variables of the principal components.

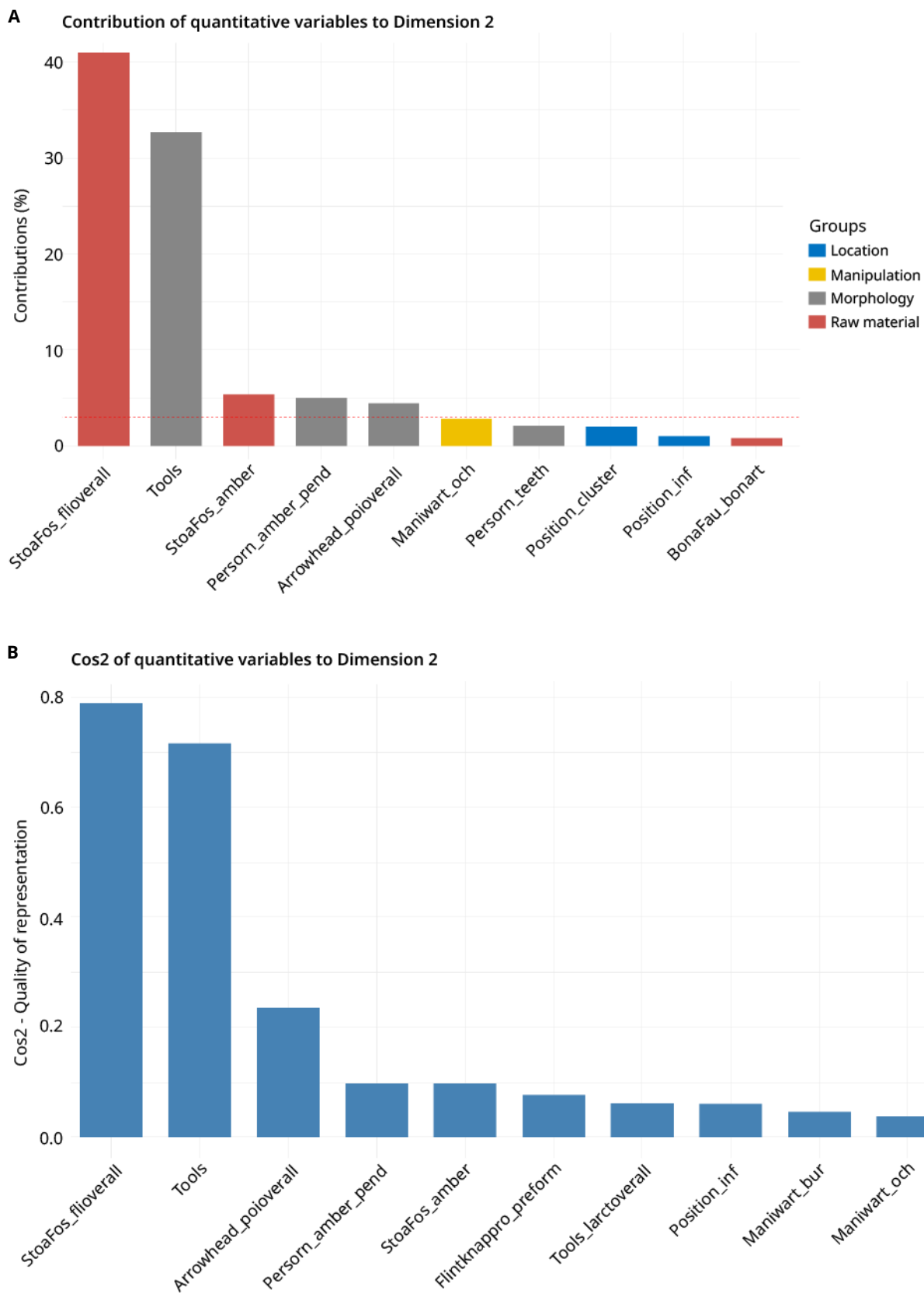


Figure 51A, B. Burial kits. A: Contribution of variables to the 2nd dimension. B: The quality of representation of the variables of the principal components.

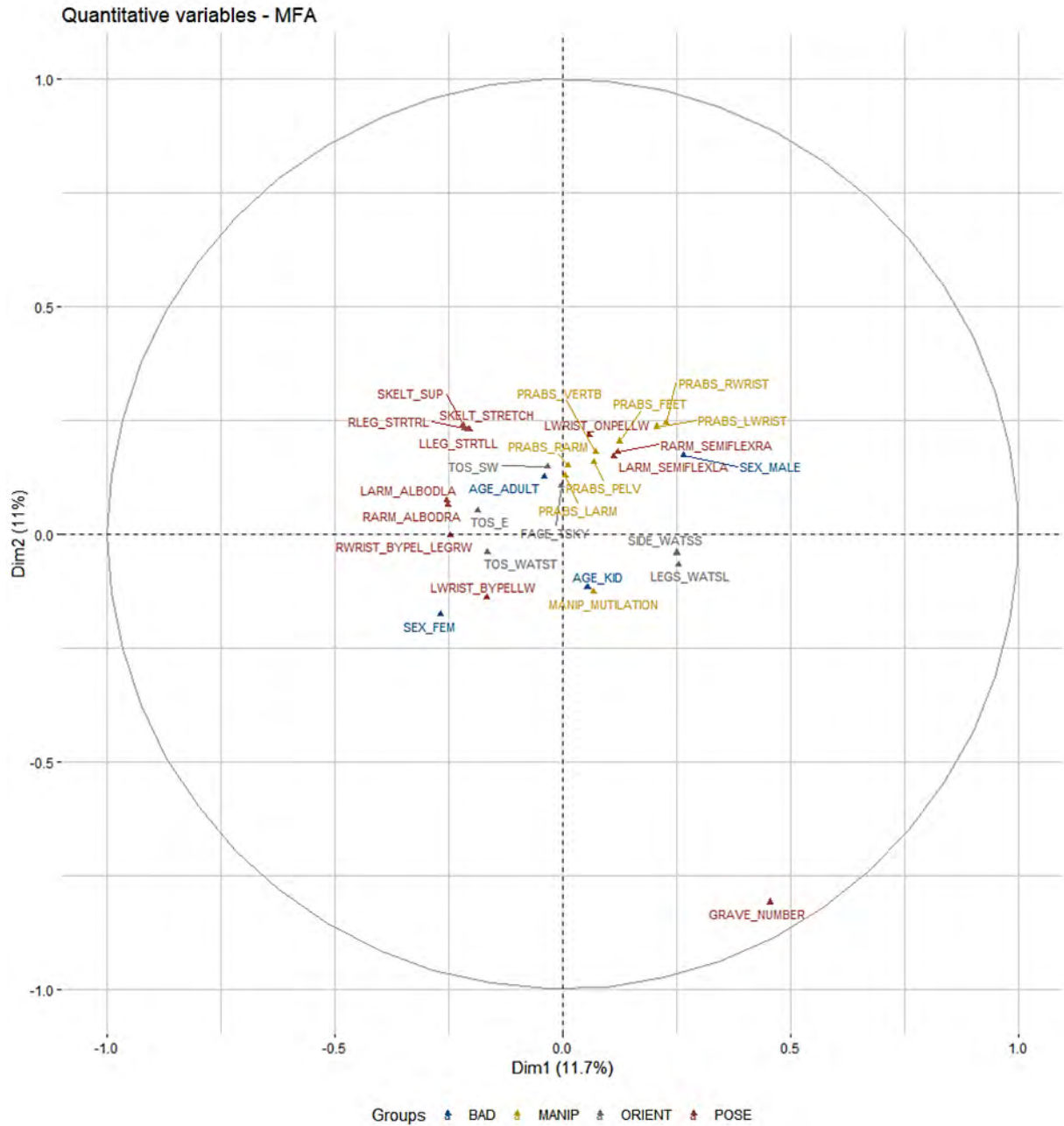


Figure 52. Anthropological remains. 1st test. Quantitative variables. MFA. Even though no clear grouping of the individuals was established, the variables displayed particular groupings, e.g., children correlate with some evidence of mutilation of anthropological remains, as well as with placement in plural graves.

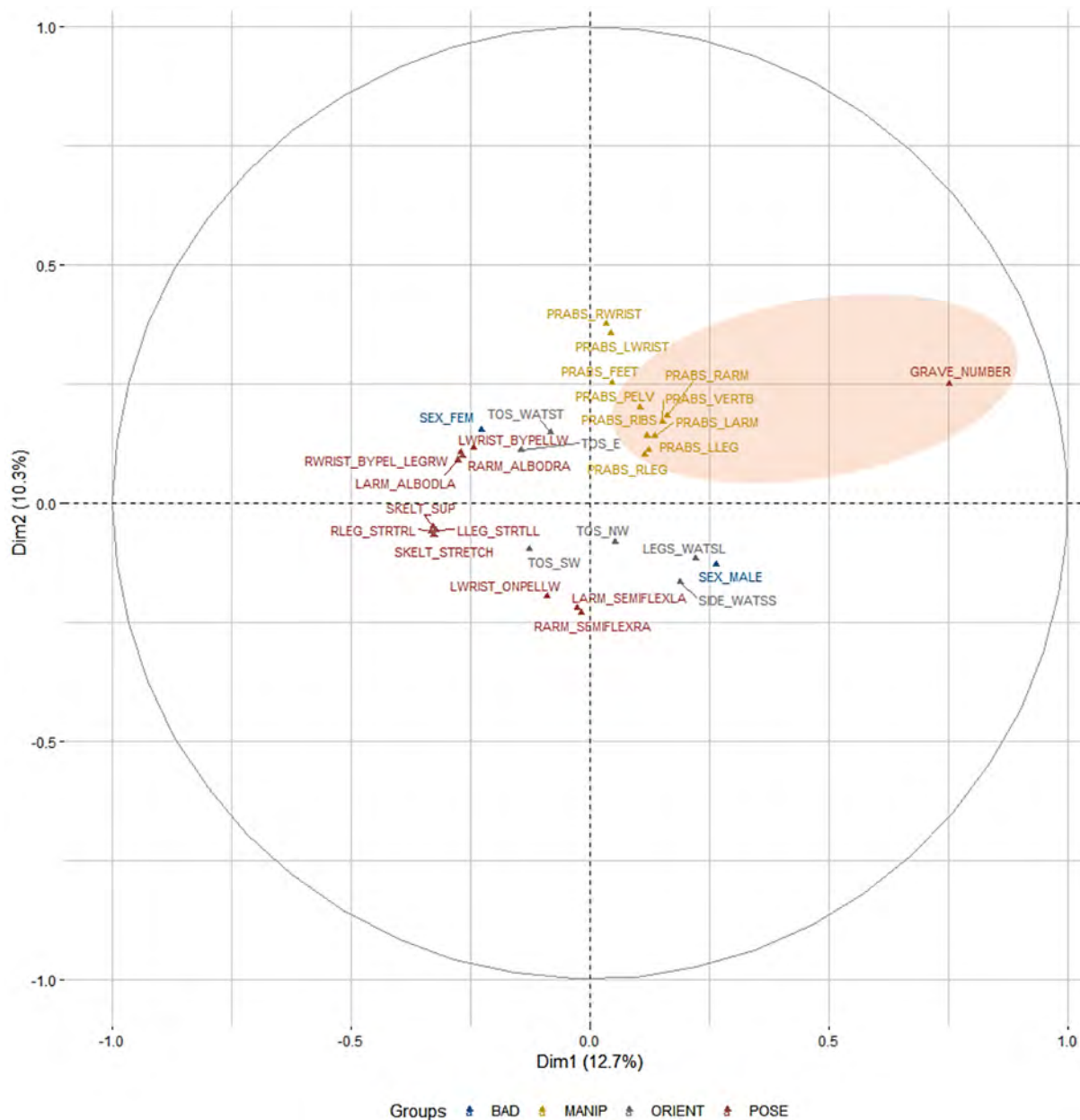


Figure 53. Anthropological remains. 2nd test. Quantitative variables. MFA.

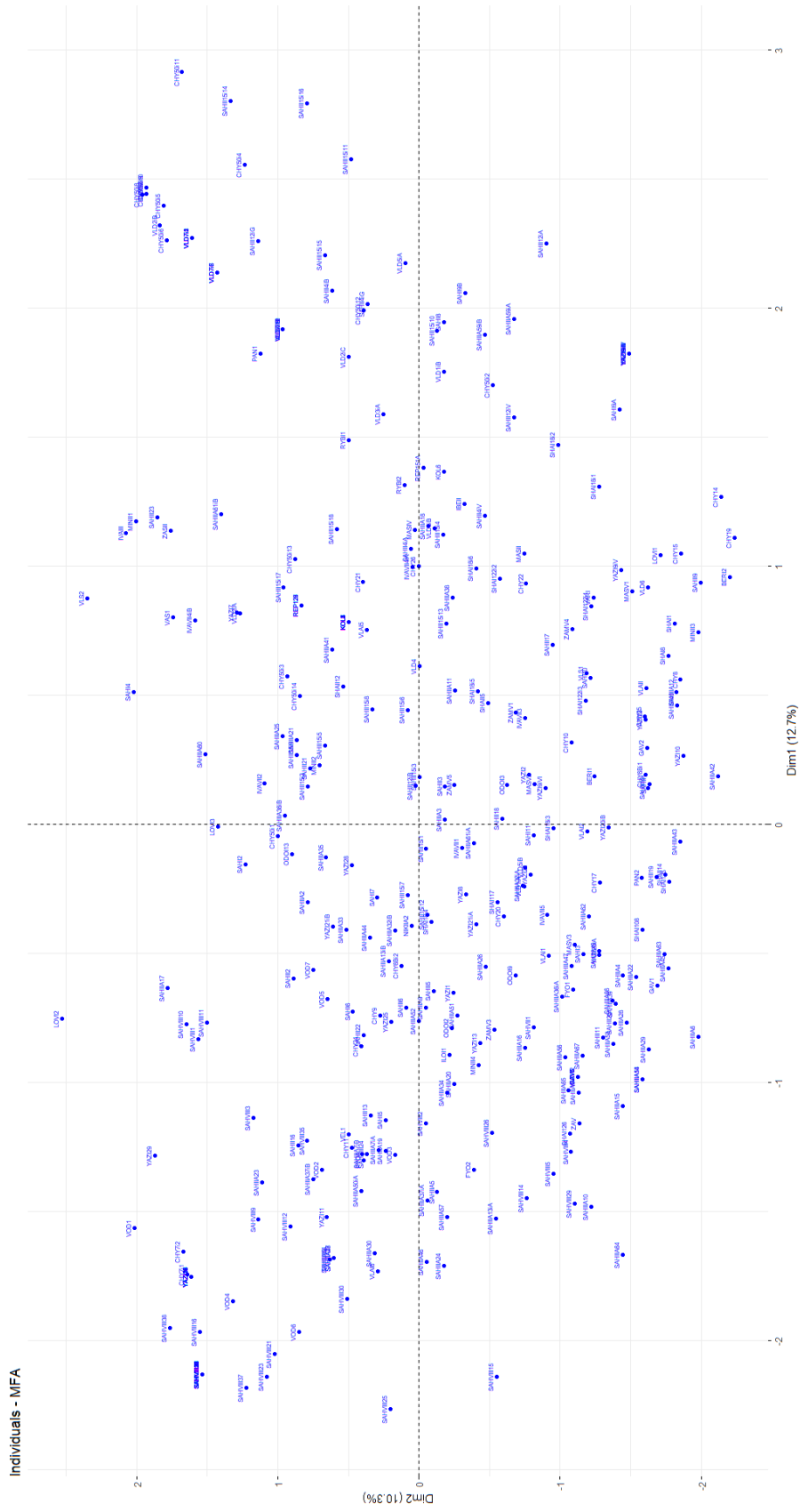


Figure 54. Anthropological remains. 2nd test. Individual factor map.

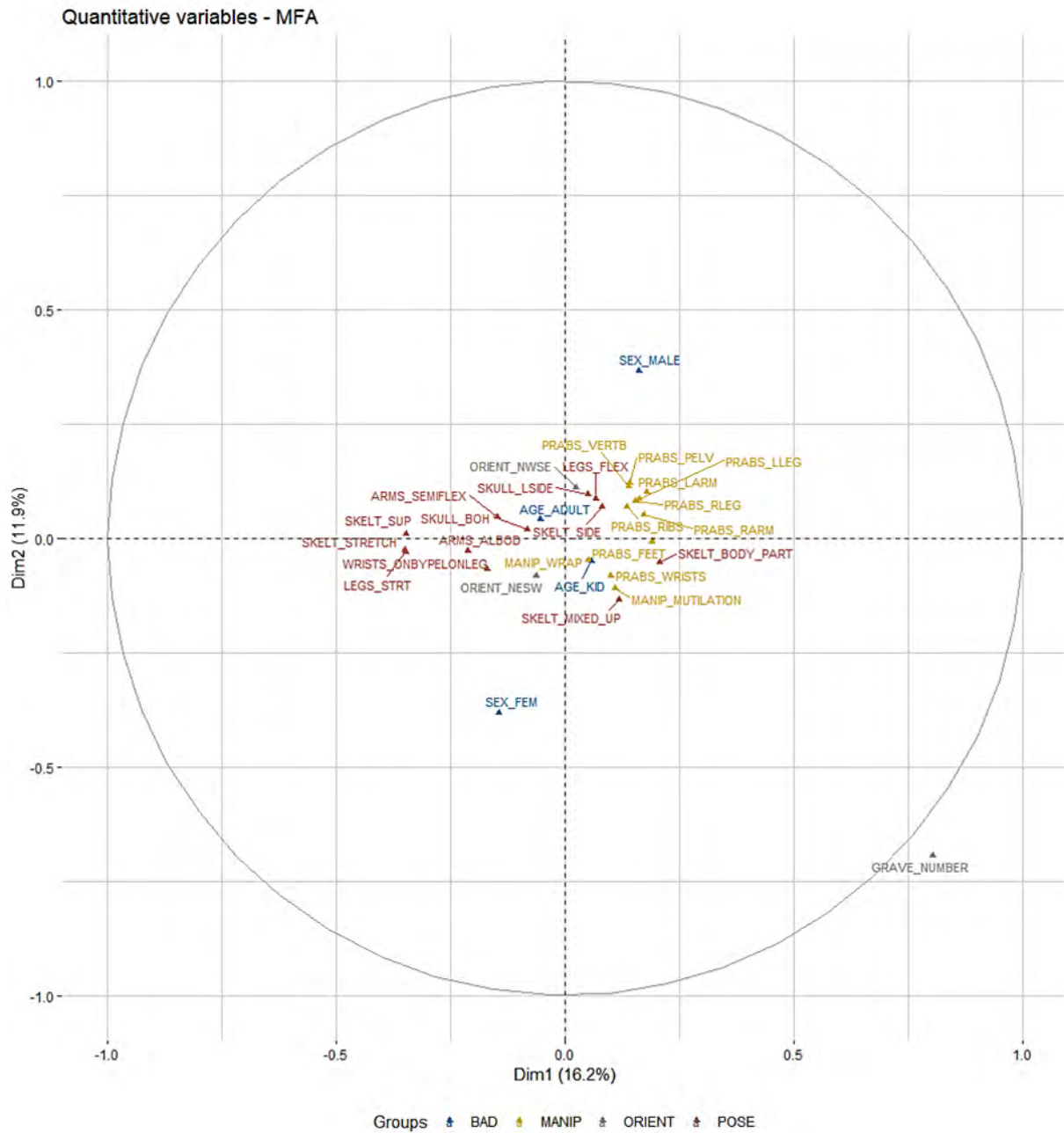


Figure 55. Anthropological remains. 2nd test. Quantitative variables. MFA. Groups: BAD - basic anthropological data, MANIP - manipulation of the body, ORIENT - orientation, POSE - body position.

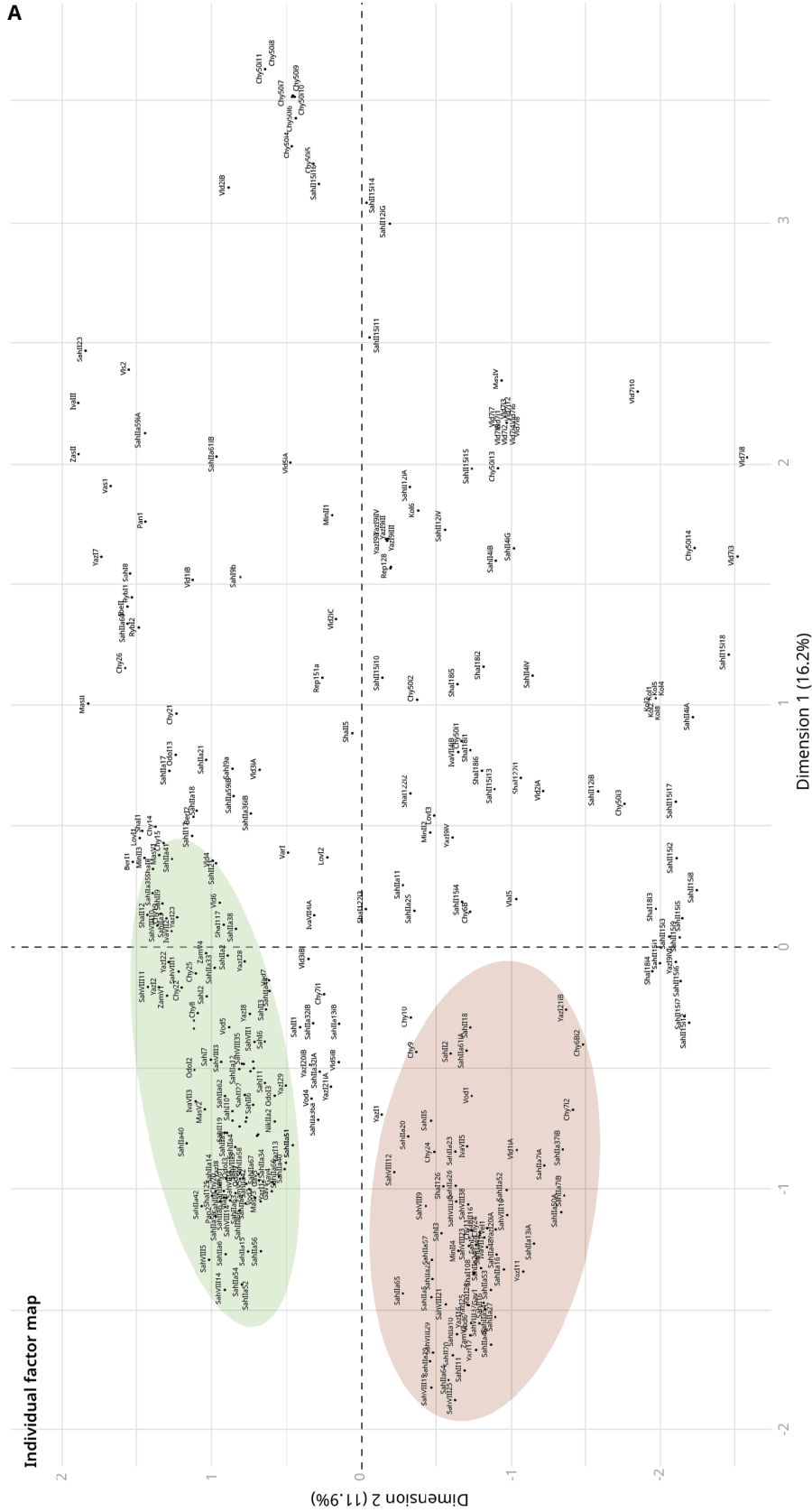


Figure 56A, B. Anthropological remains. 2nd test. Scatter plot of individuals. A: Smaller labels - Larger scale. B: Larger labels - Smaller scale.

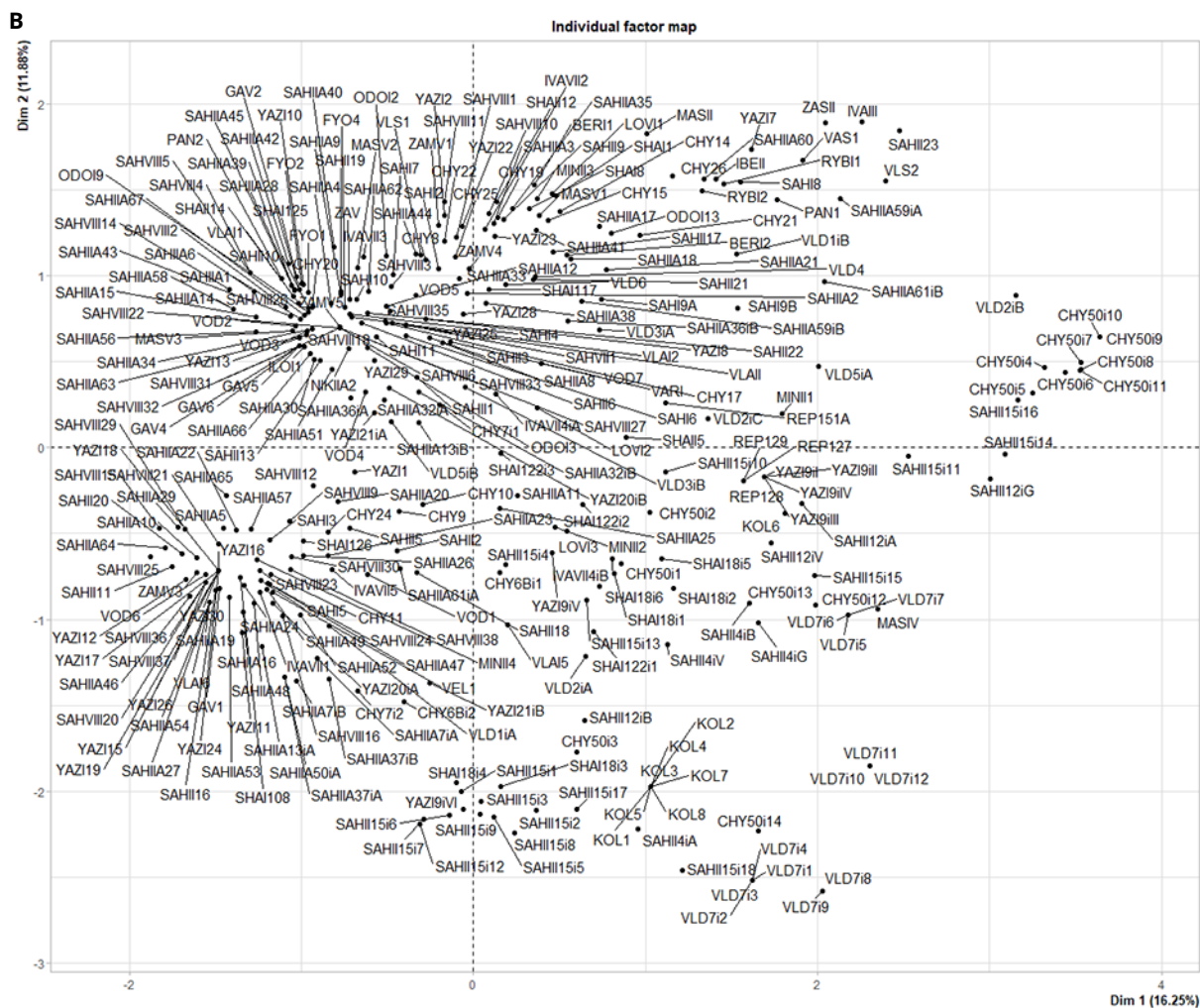


Figure 56A, B. Anthropological remains. 2nd test. Scatter plot of individuals. A: Smaller labels – Larger scale. B: Larger labels – Smaller scale.

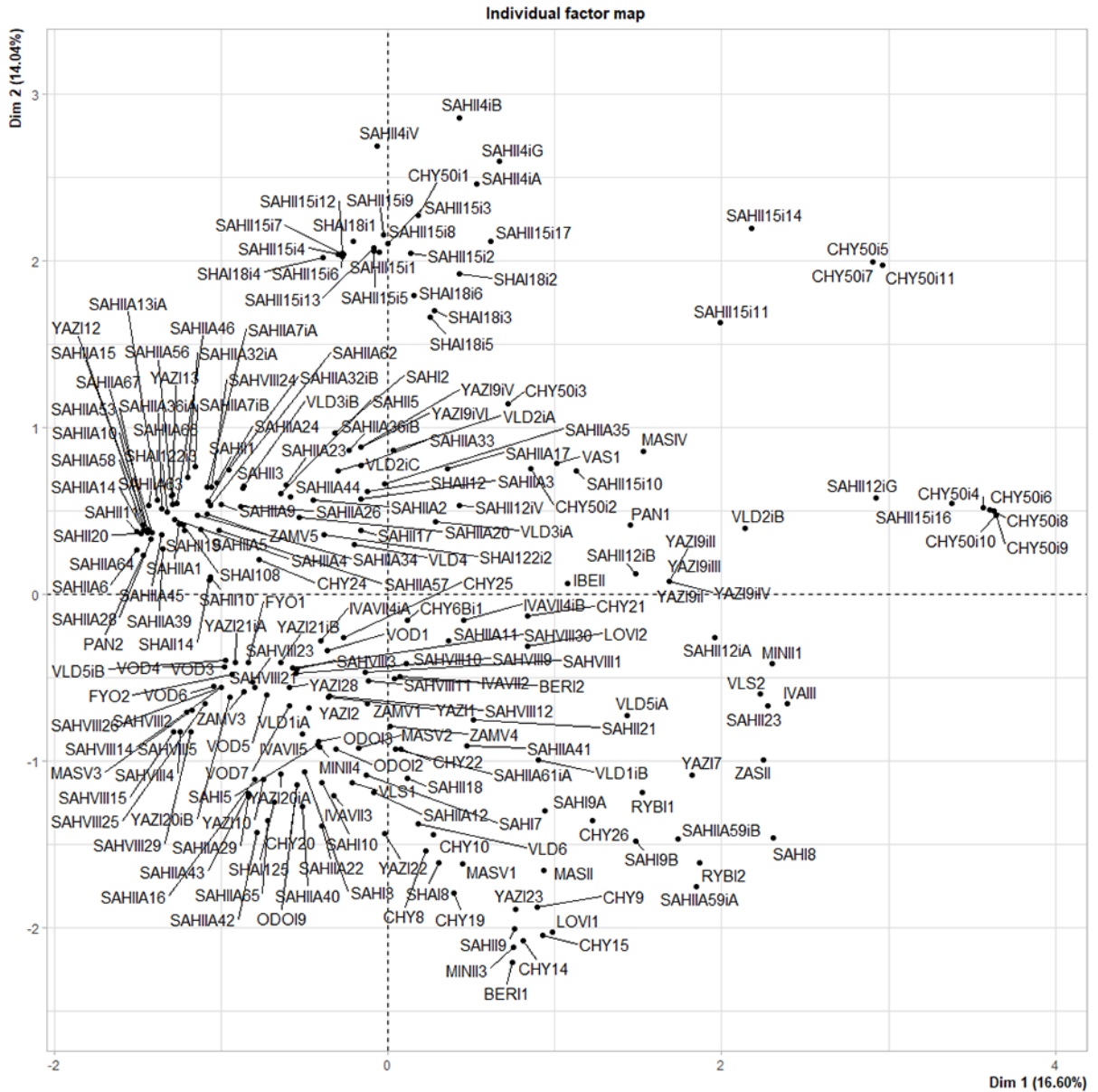


Figure 57. Anthropological remains. Final test. Individual factor map.

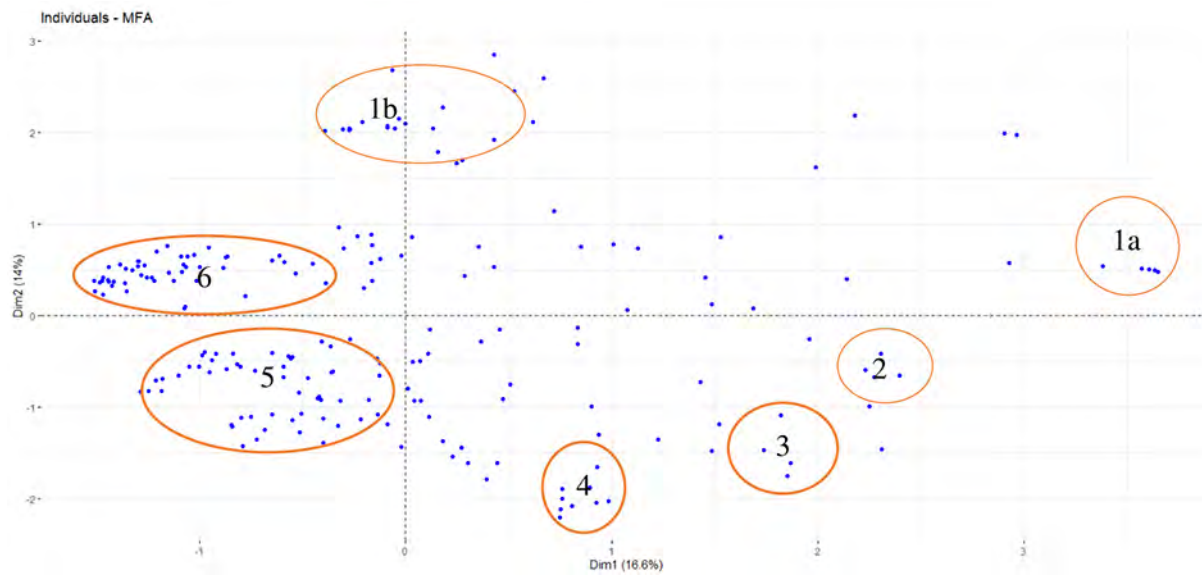


Figure 58. Anthropological remains. Final test. Individuals MFA with established, highlighted groups.

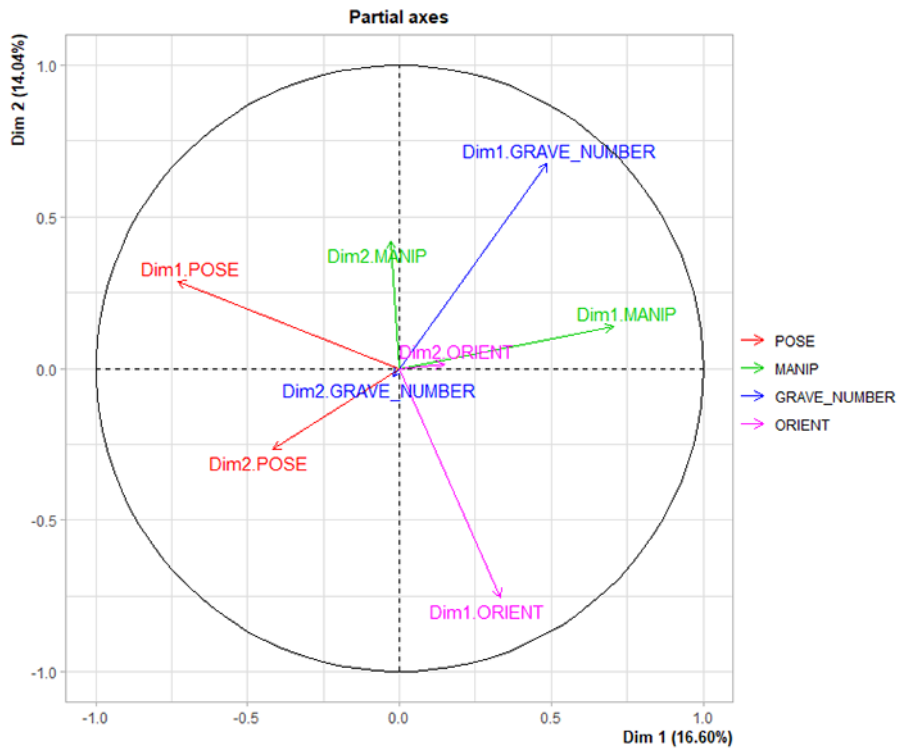


Figure 59. Anthropological remains. Final test. Partial axes.

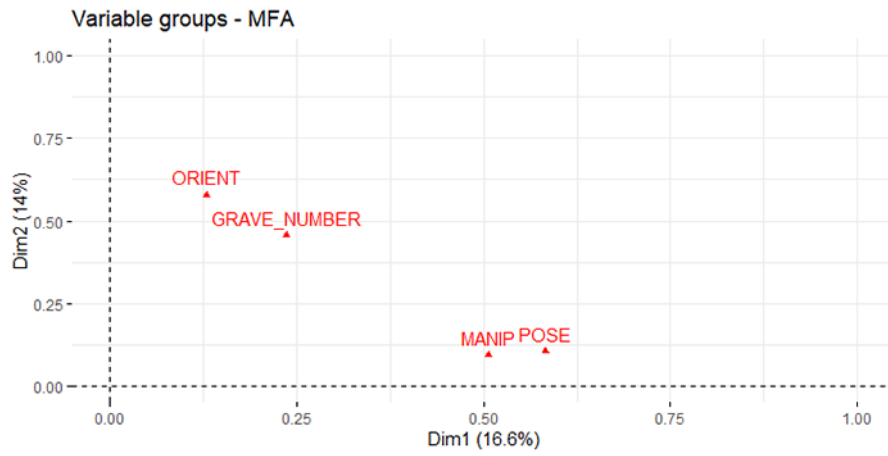


Figure 60. Anthropological remains. Final test. Group representation.

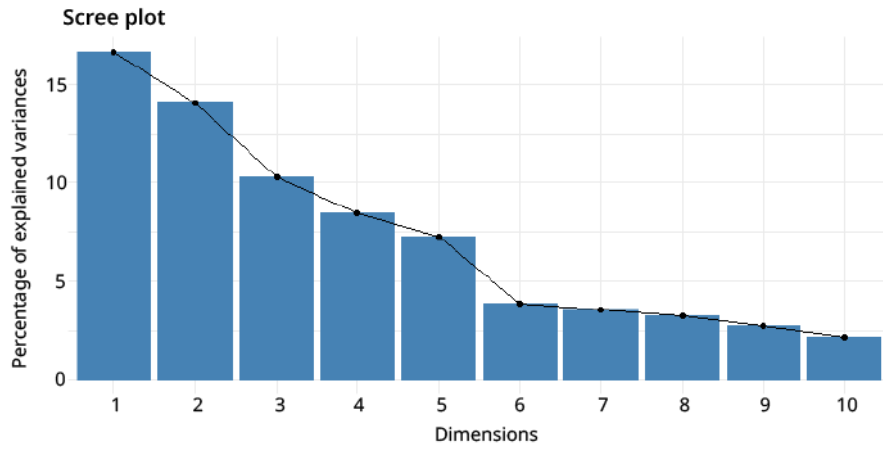


Figure 61. Anthropological remains. Final test. Scree plot.

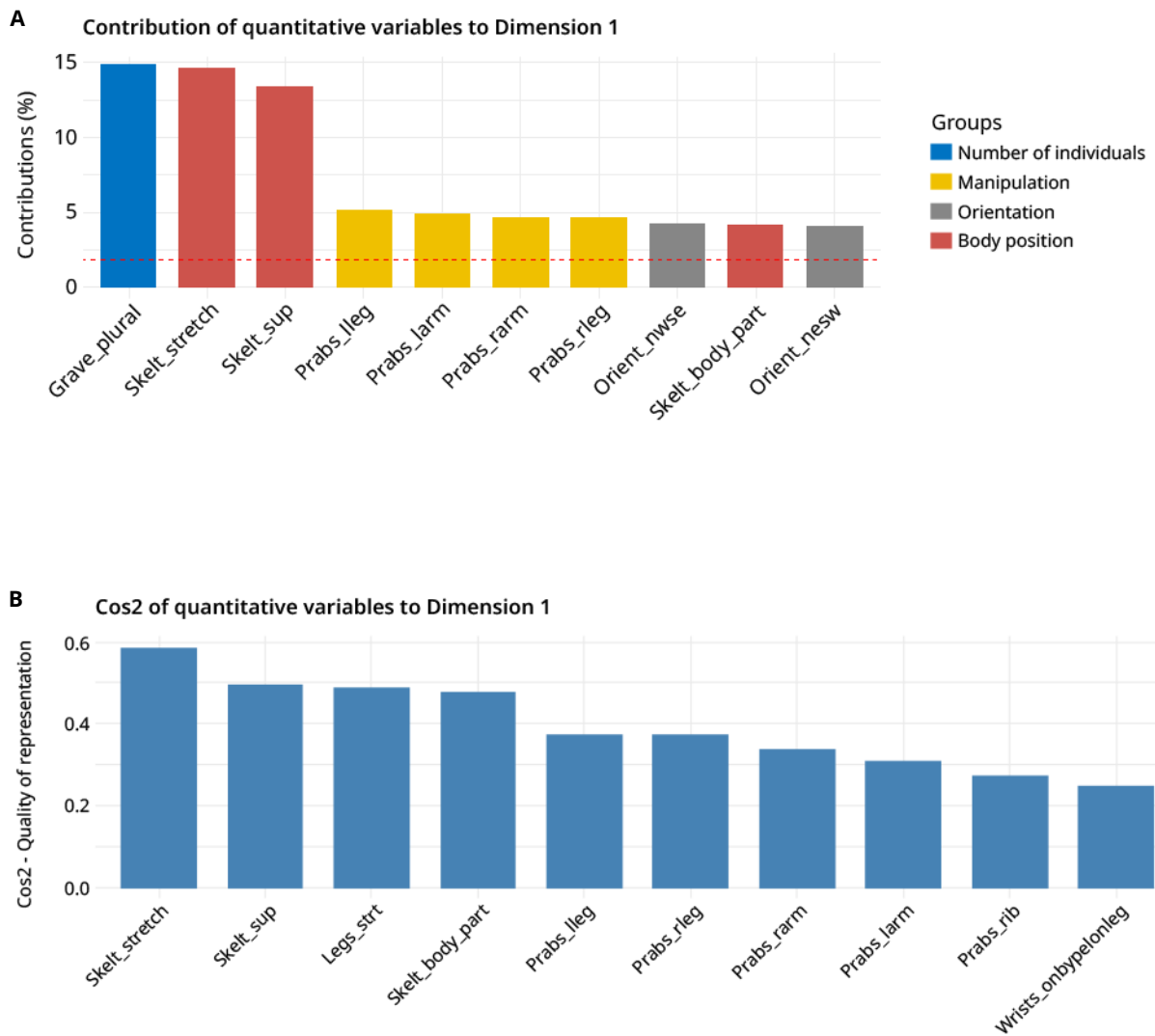


Figure 62A, B. Anthropological remains. Final test. A: Contribution of variables to the 1st dimension. B: The quality of representation of the variables of the principal components.

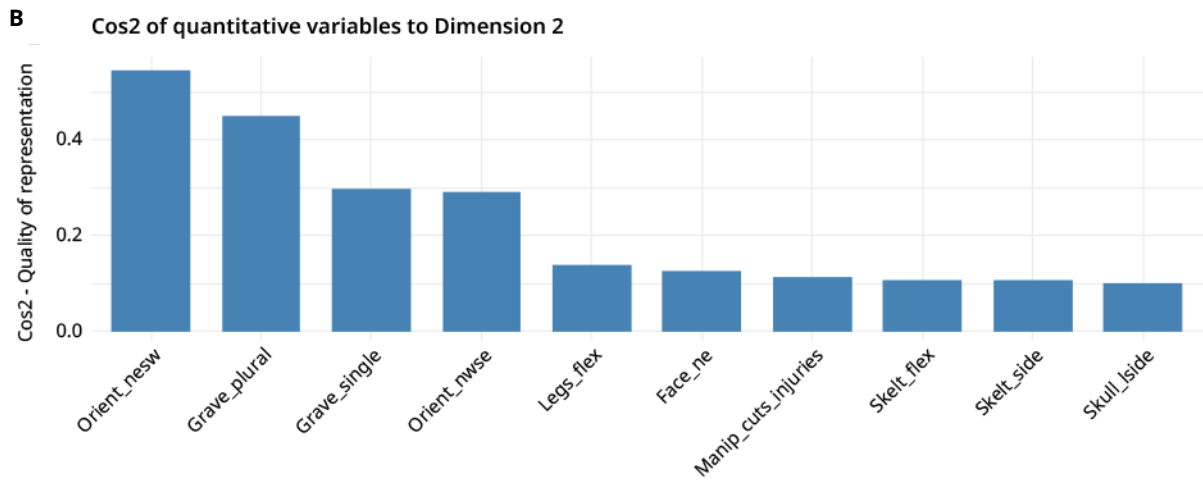
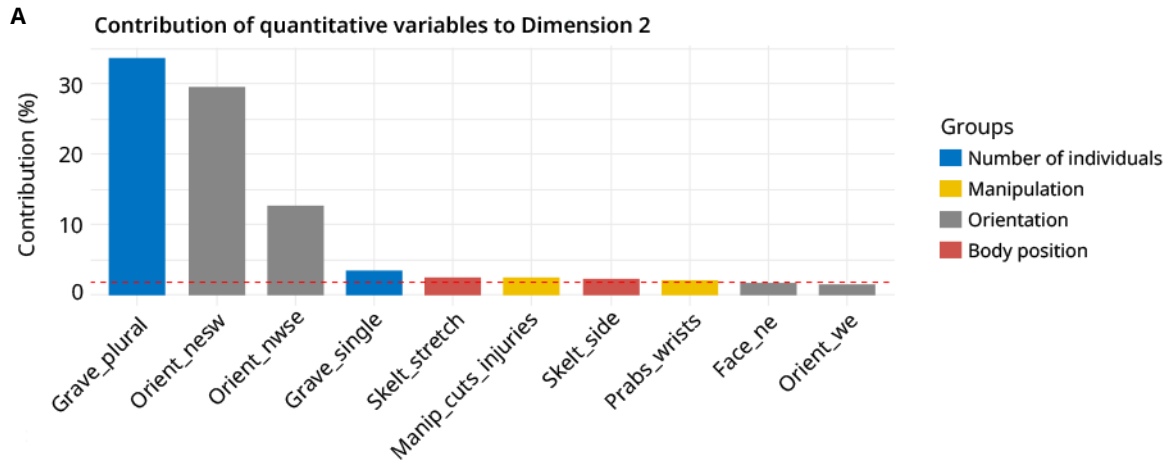


Figure 63A, B. Anthropological remains. Final test. A: Contribution of variables to the 2nd dimension. B: The quality of representation of the variables of the principal components.

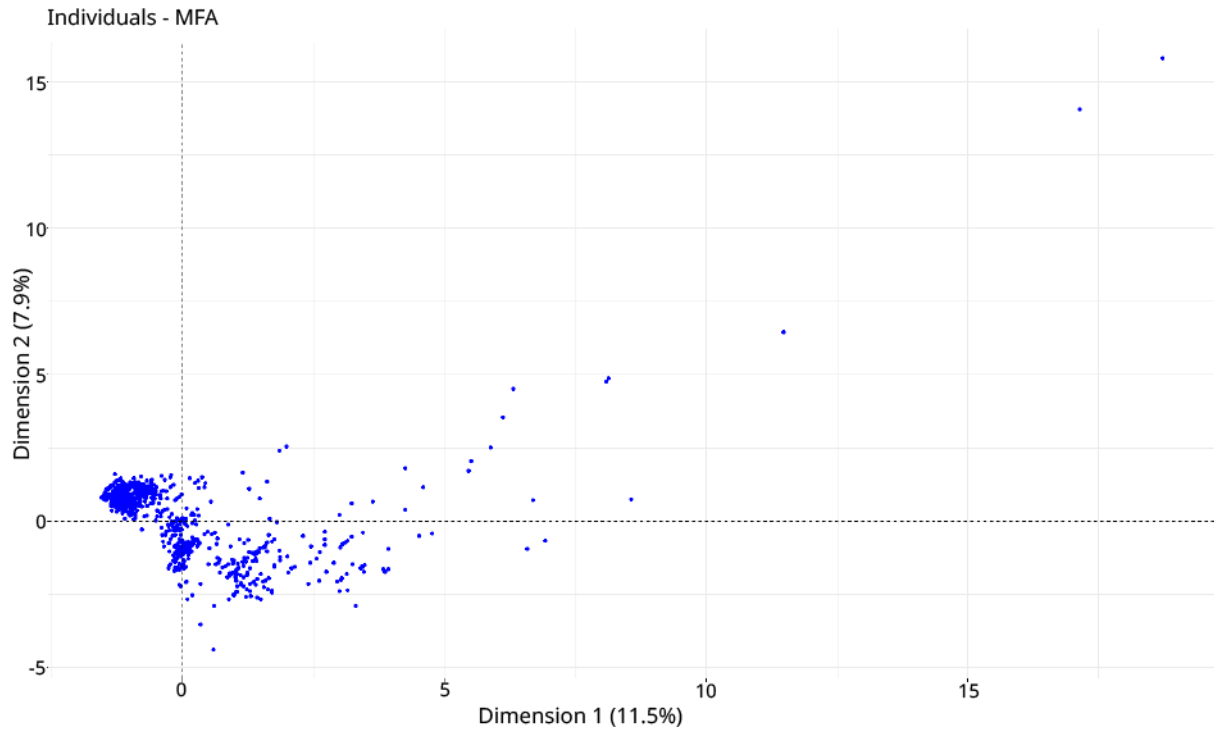


Figure 64. Accompanying burial features. 1st test. Scatter plot of individuals.

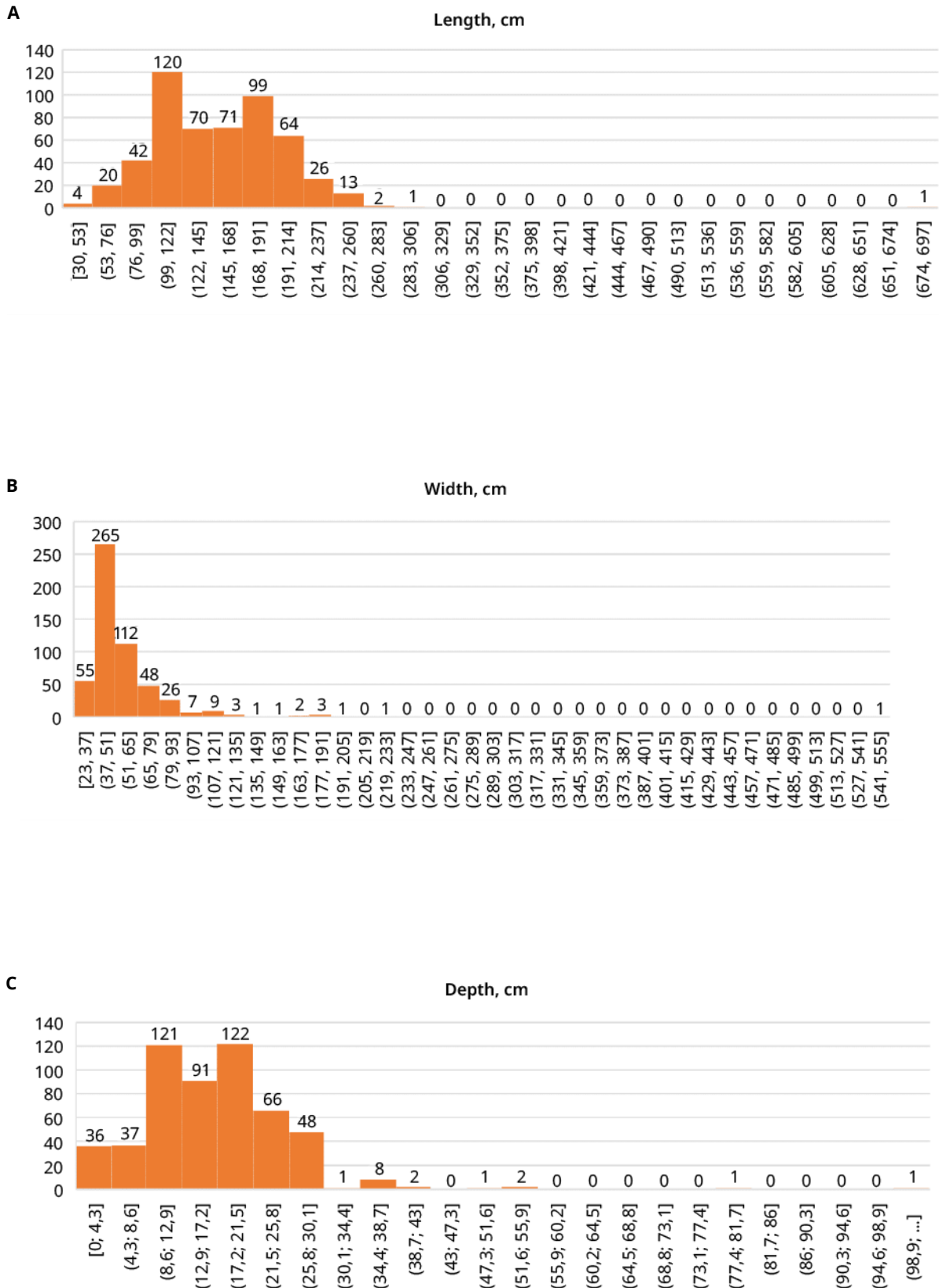


Figure 65A, B, C. Burial pits. Dimensions. A: Length, cm. B: Width, cm. C: Depth, cm.

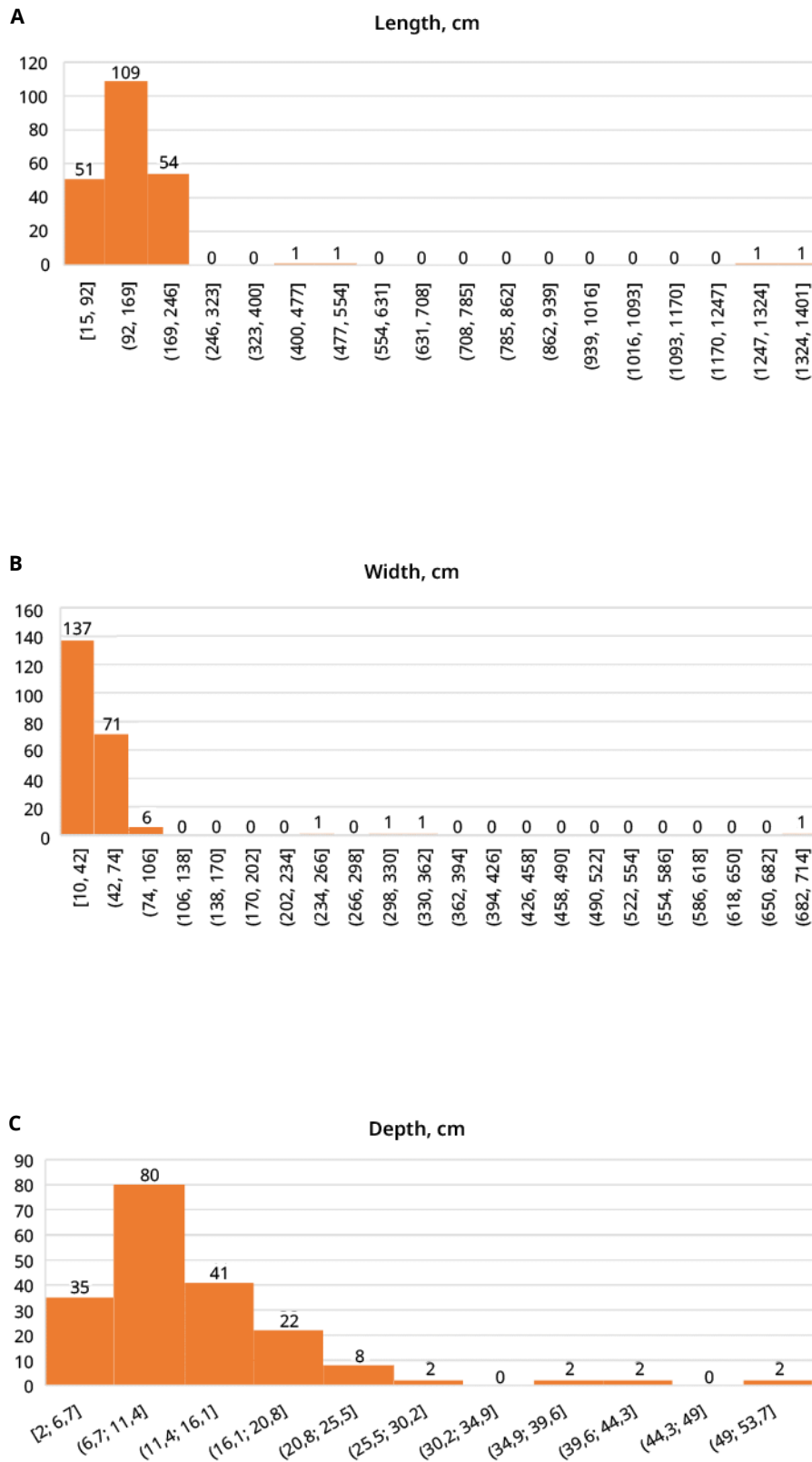


Figure 66A, B, C. Accompanying burial features. Ochre stains. Dimensions. A: Length, cm. B: Width, cm. C: Depth, cm.

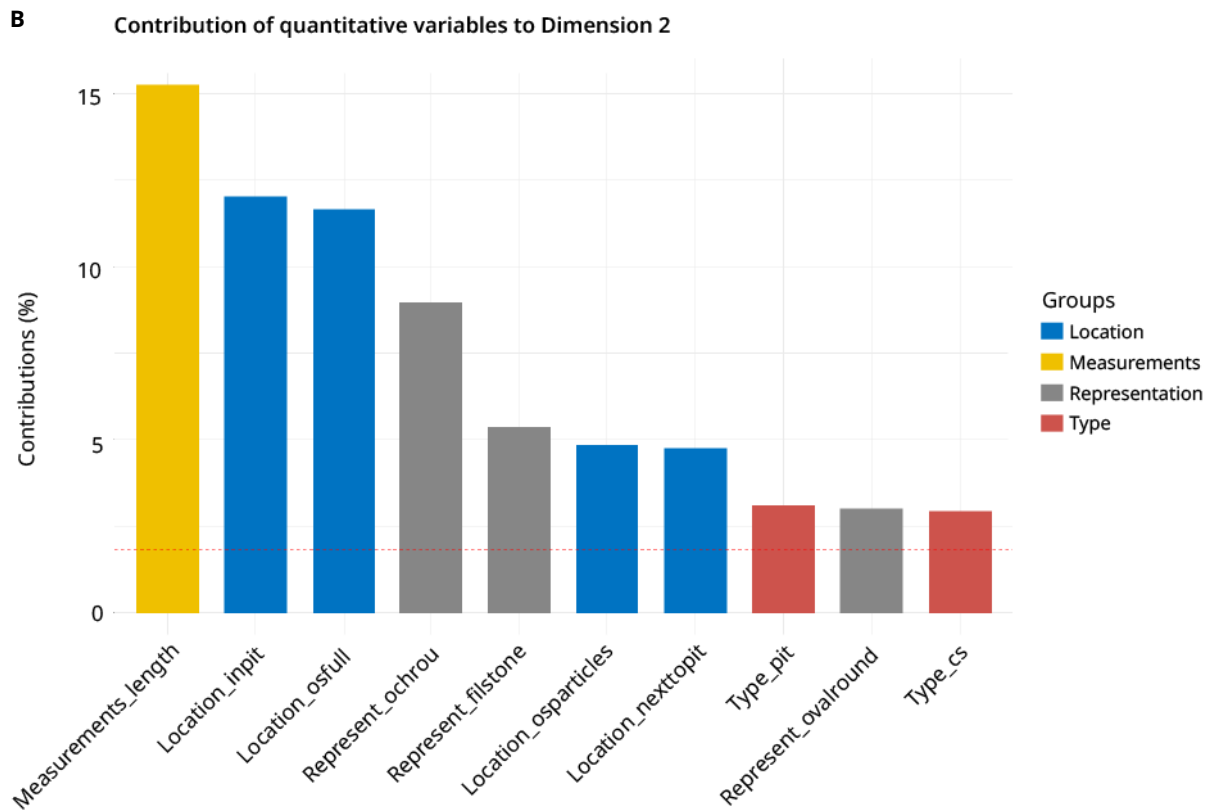
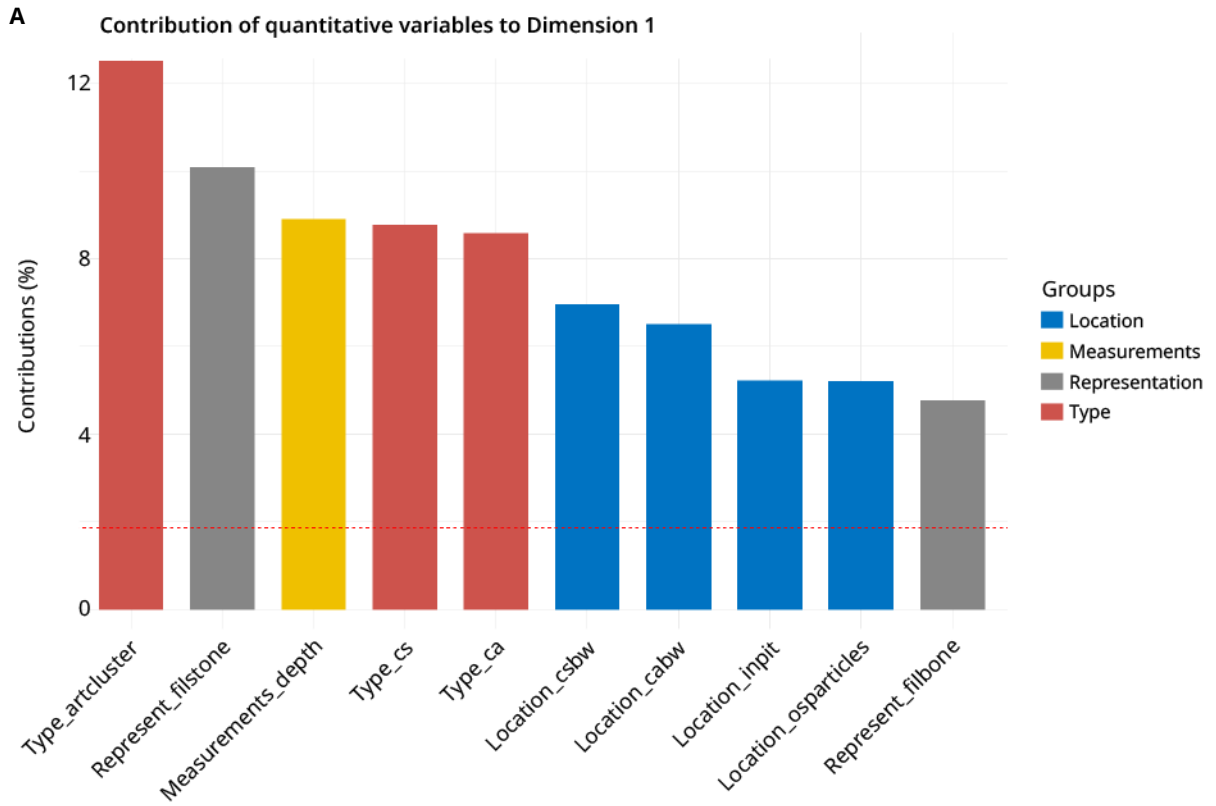


Figure 67A, B. Accompanying burial features. Ochre stains. 1st test. MFA. A: Contribution of variables to Dimension 1. B: Contribution of variables to Dimension 2.

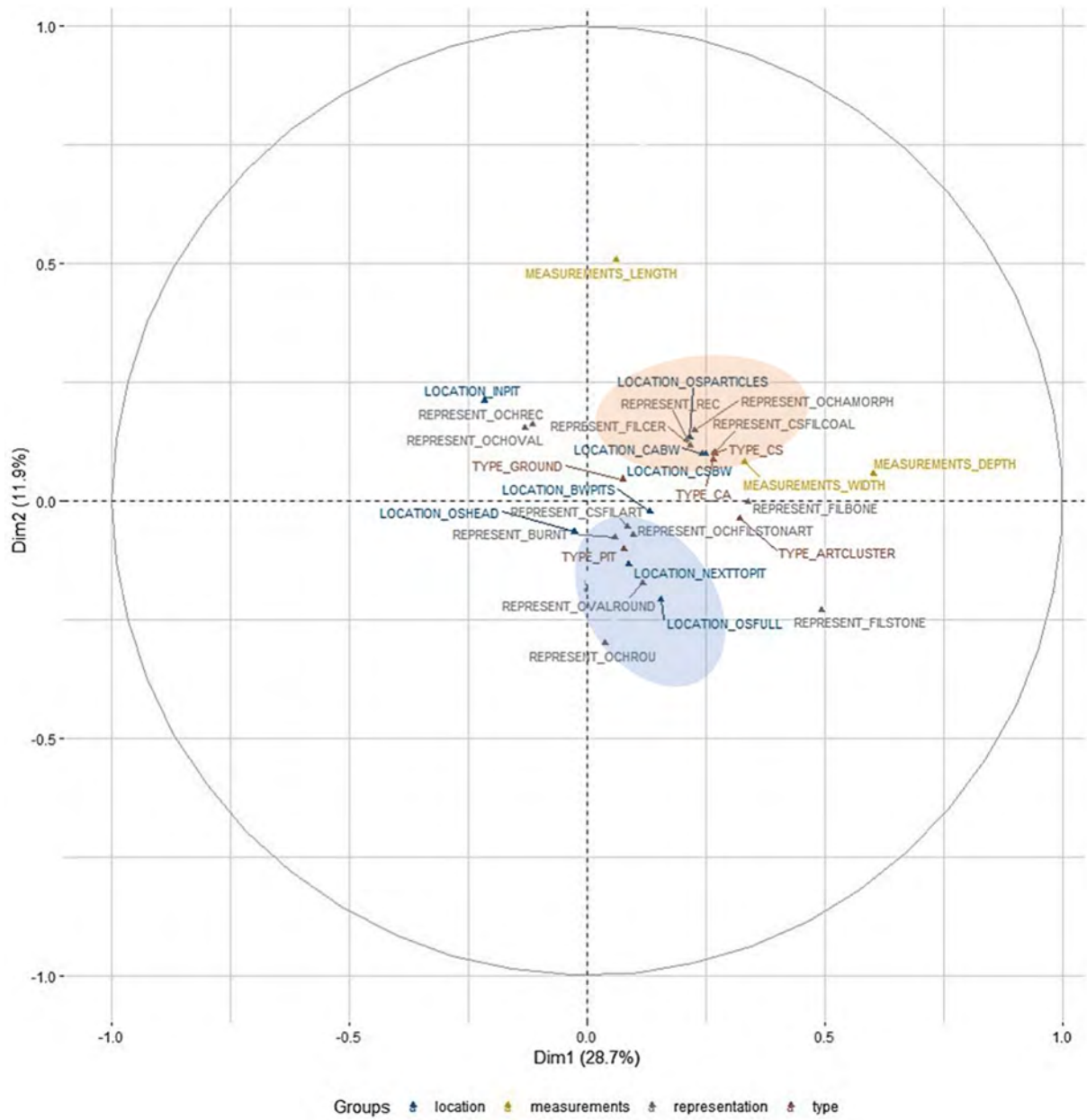


Figure 68. Accompanying burial features. Ochre stains. 1st test. Variables. MFA.

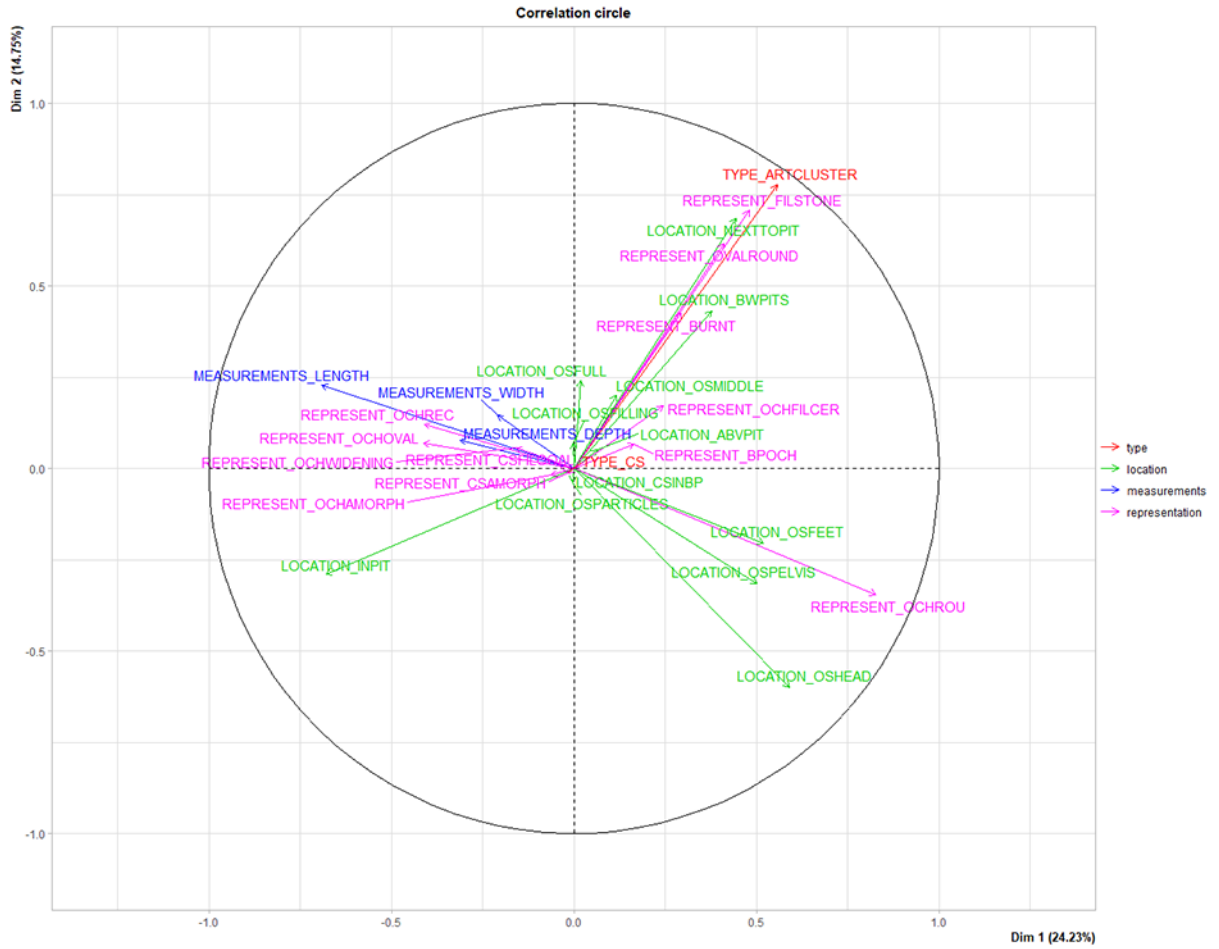


Figure 69. Accompanying burial features. Ochre stains. Least informative individuals. Correlation circle.

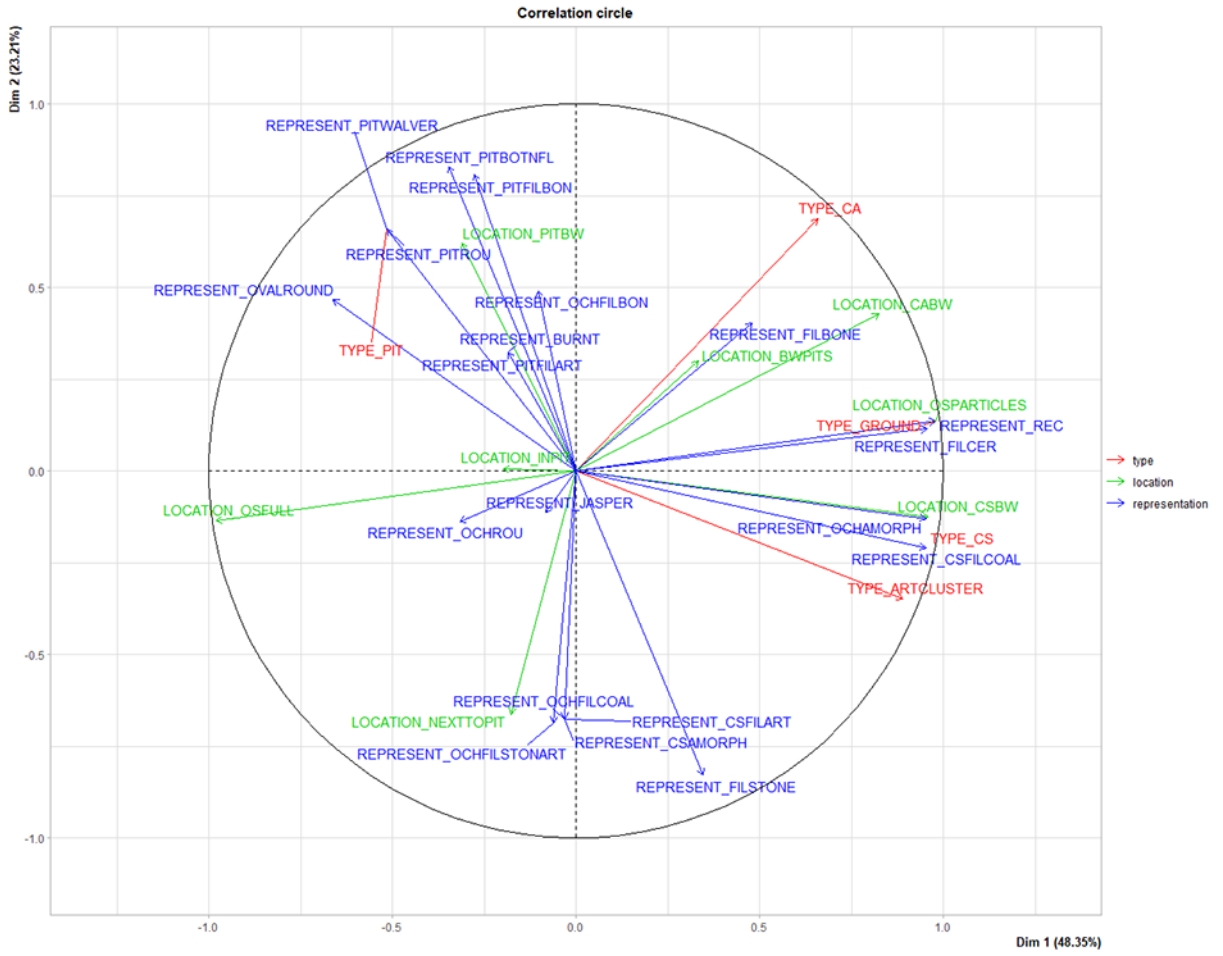


Figure 70. Accompanying burial features. Ochre stains. Most informative individuals. Correlation circle.

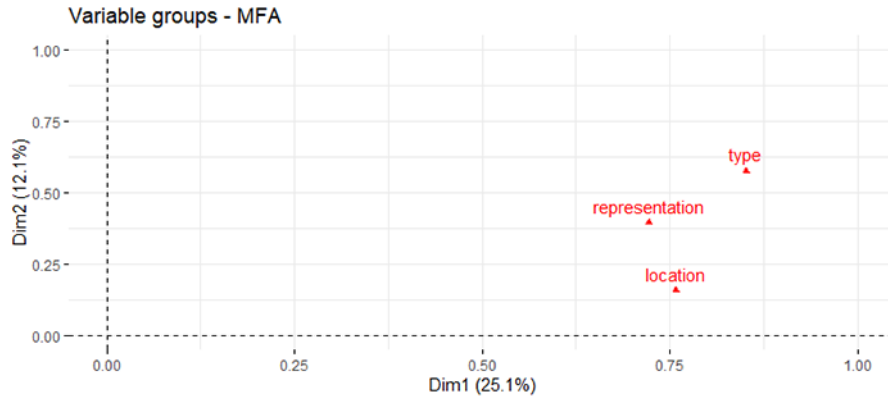


Figure 71. Accompanying burial features. Ochre stains. Final test. Group representation.

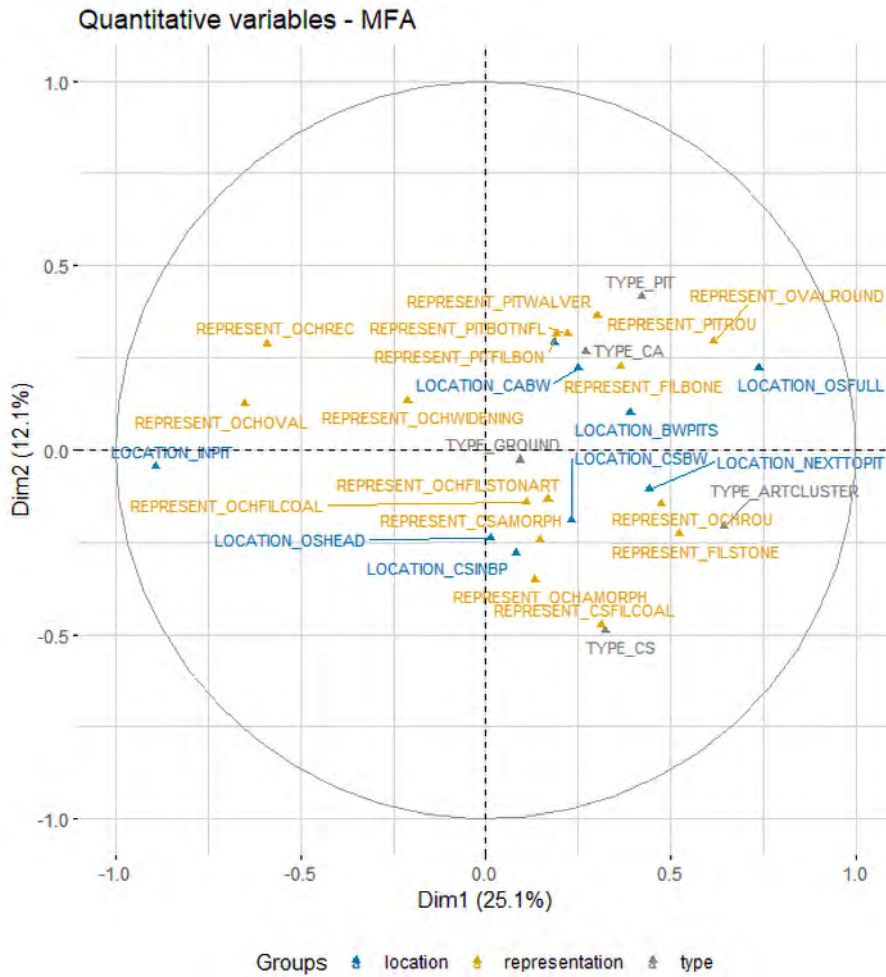


Figure 72. Accompanying burial features. Ochre stains. Final test. Variables. MFA.

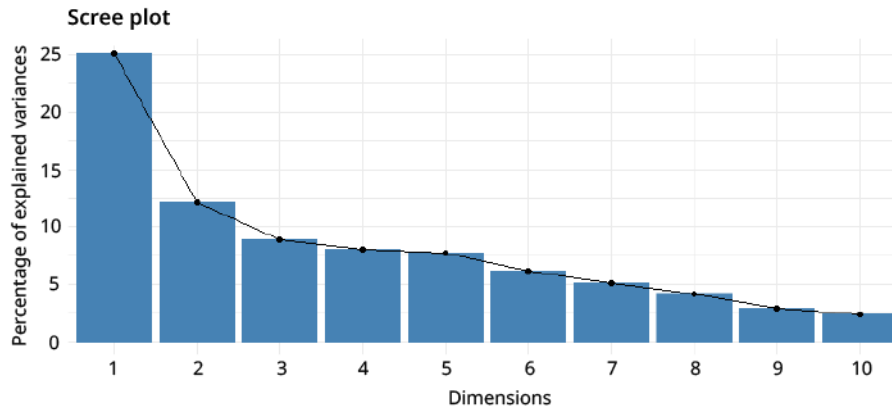


Figure 73. Accompanying burial features. Ochre stains. Final test. Scree plot.

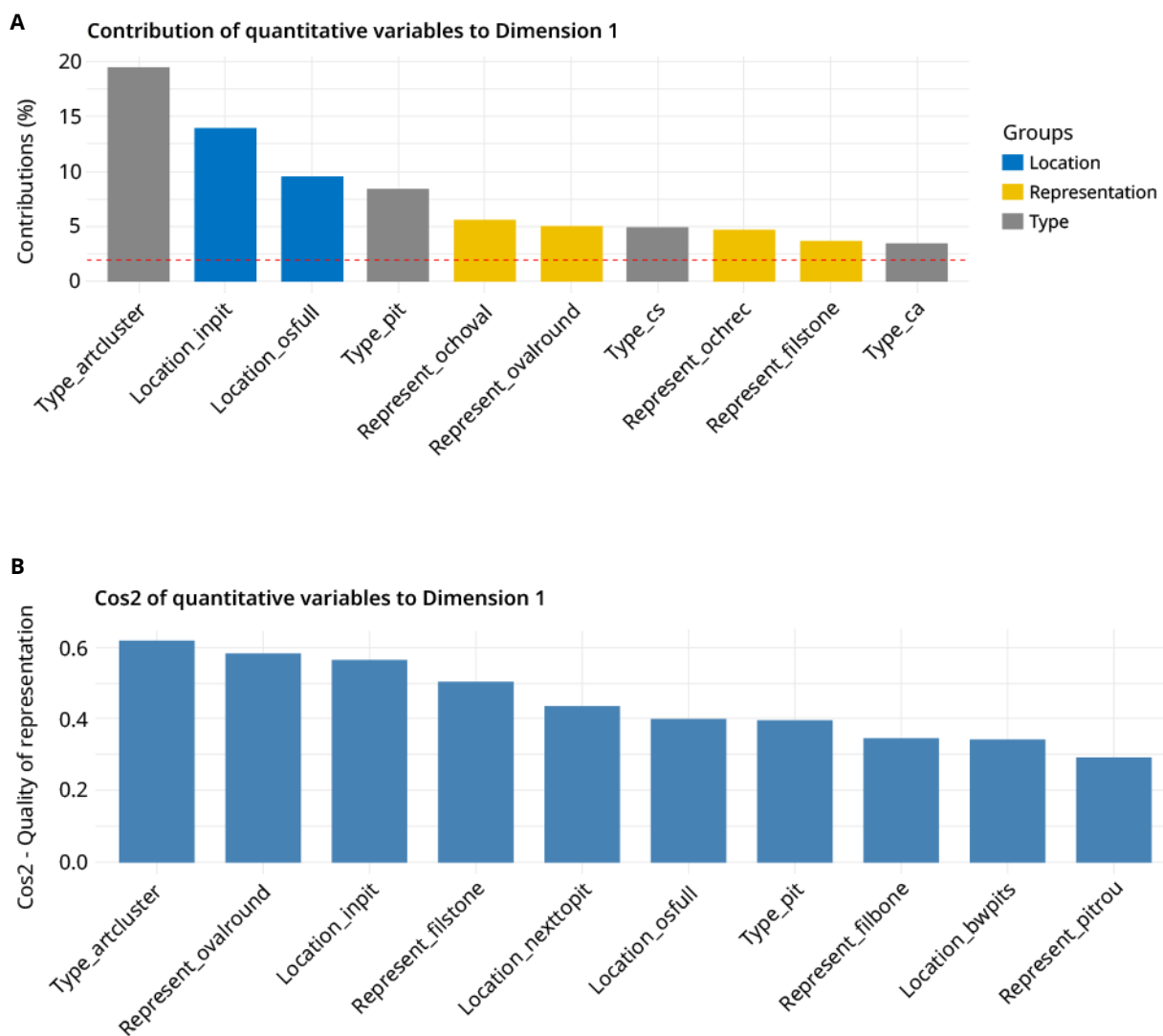


Figure 74A, B. Accompanying burial features. Ochre stains. Final test. A: Contribution of variables to the 1st dimension. B: The quality of representation of the variables of the principal components.

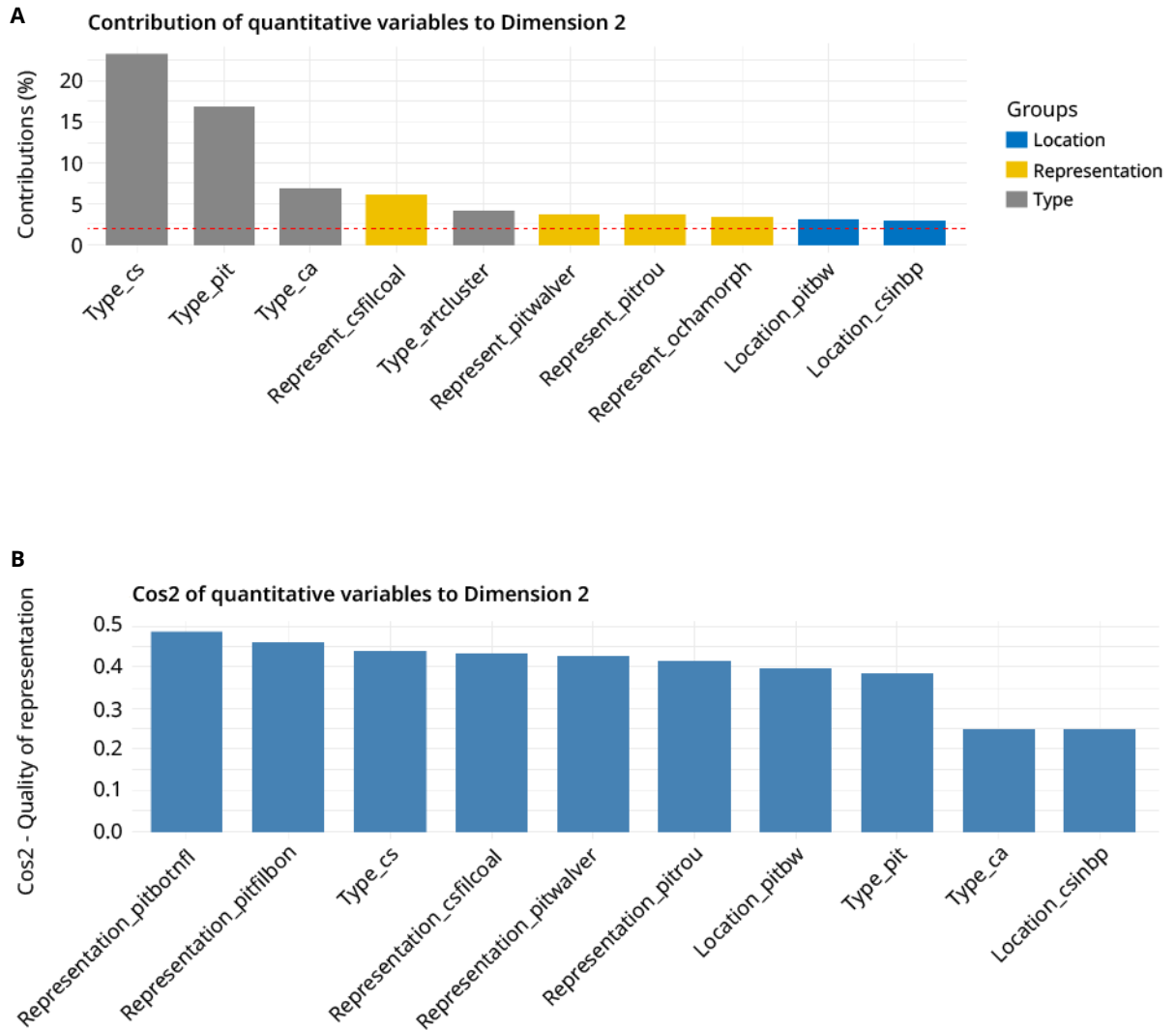


Figure 75A, B. Accompanying burial features. Ochre stains. Final test. A: Contribution of variables to the 2nd dimension. B: The quality of representation of the variables of the principal components.



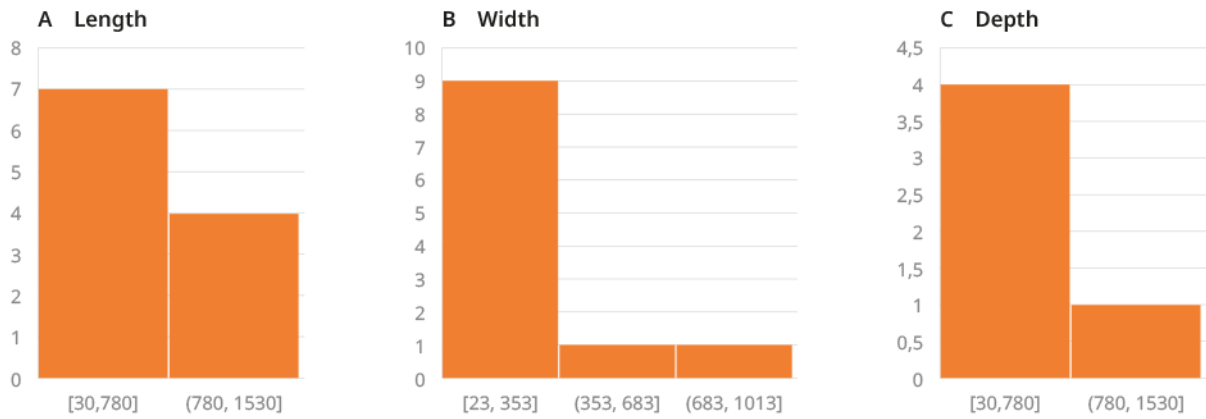


Figure 77A, B, C. Accompanying burial features. Ritual activity areas. Dimensions. A: Length, cm. B: Width, cm. C: Depth.

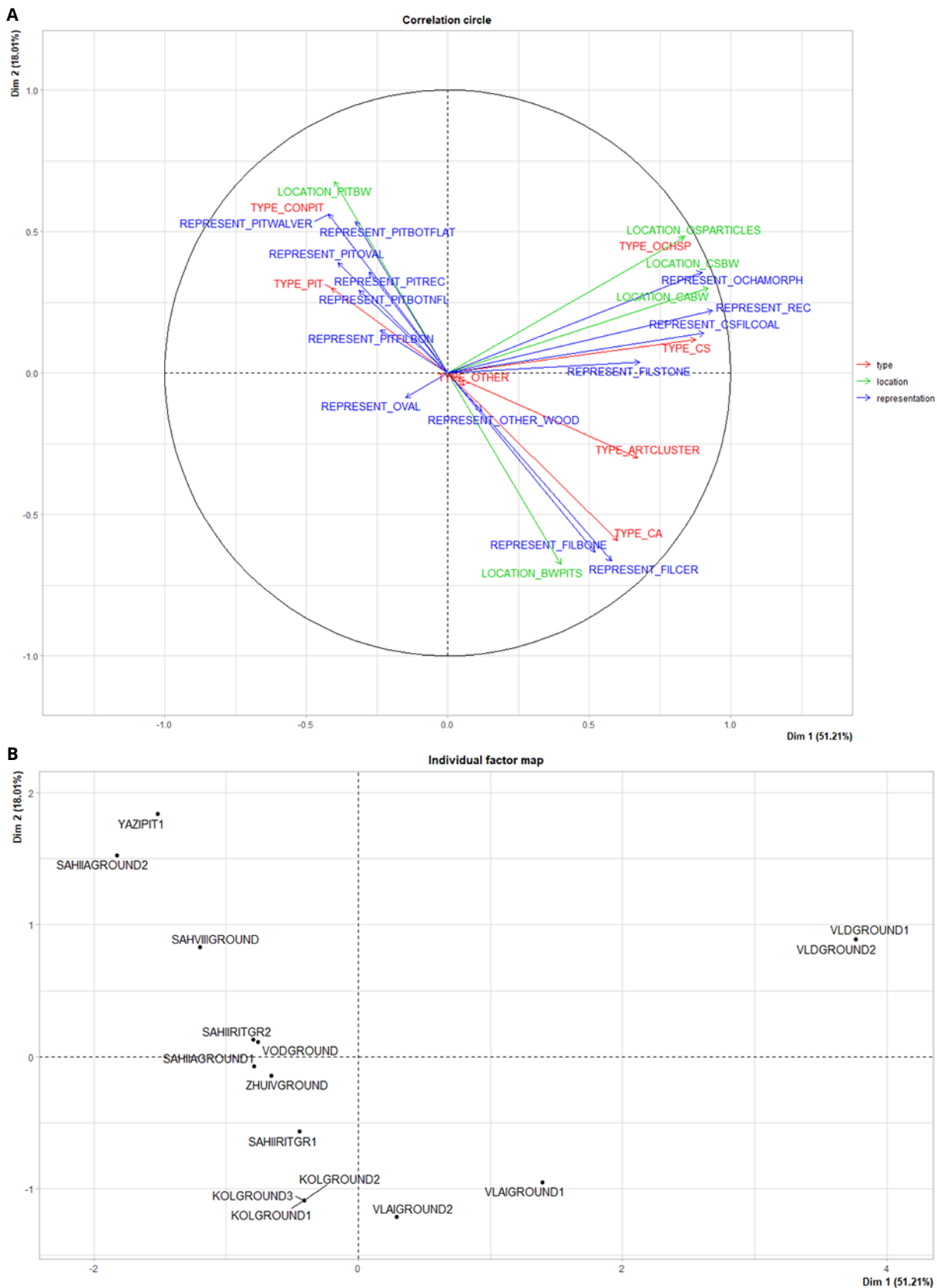


Figure 78A, B. Accompanying burial features. Ritual activity areas. A: Correlation circle. The plot indicates a strong correlation between animal bones and ceramics within particular areas. This indicates that these particular features could be used for preparing meals as a part of the funerals and/or rituals of remembrance. B: Scatter plot of individuals.

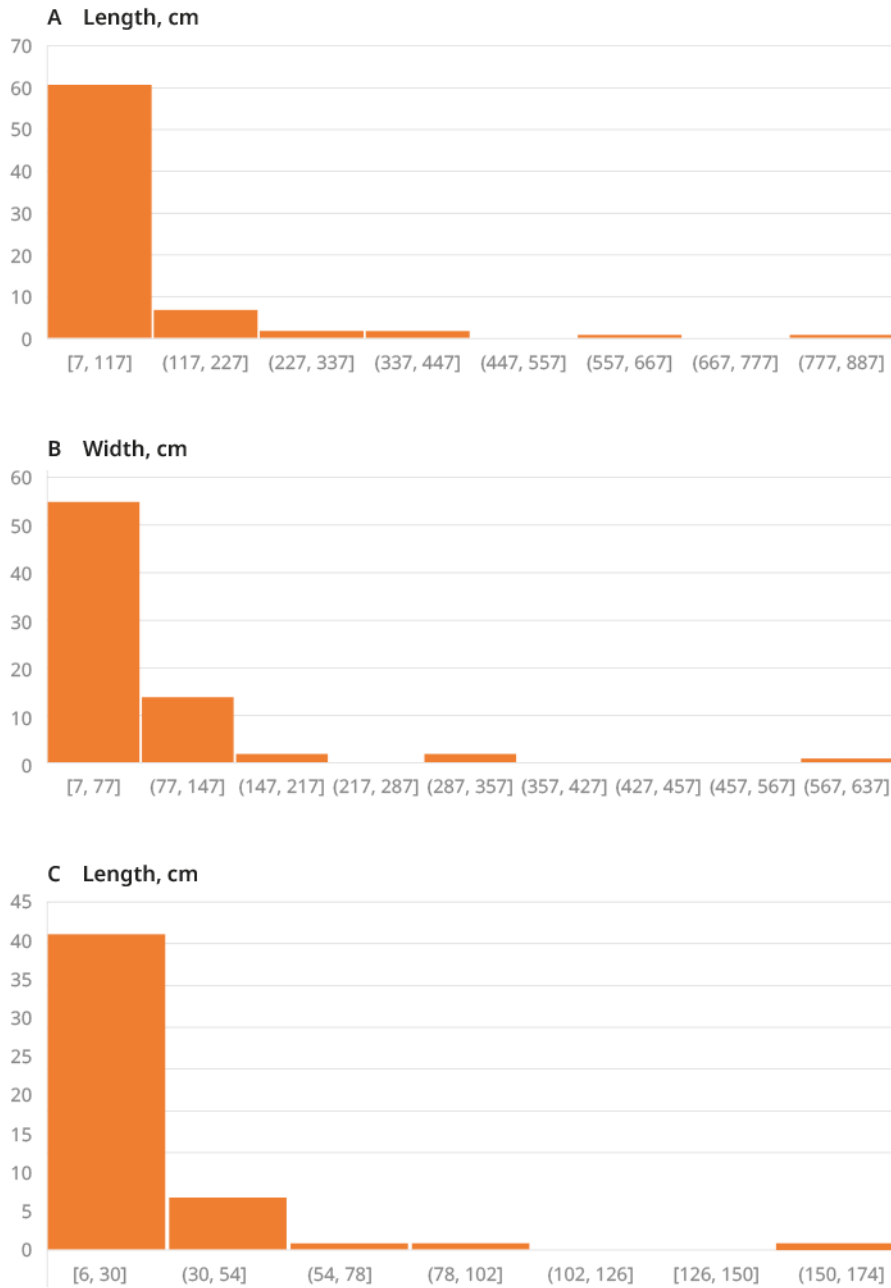


Figure 79A, B, C. Accompanying burial features. Pits. Dimensions. A: Length. B: Width. C: Depth.

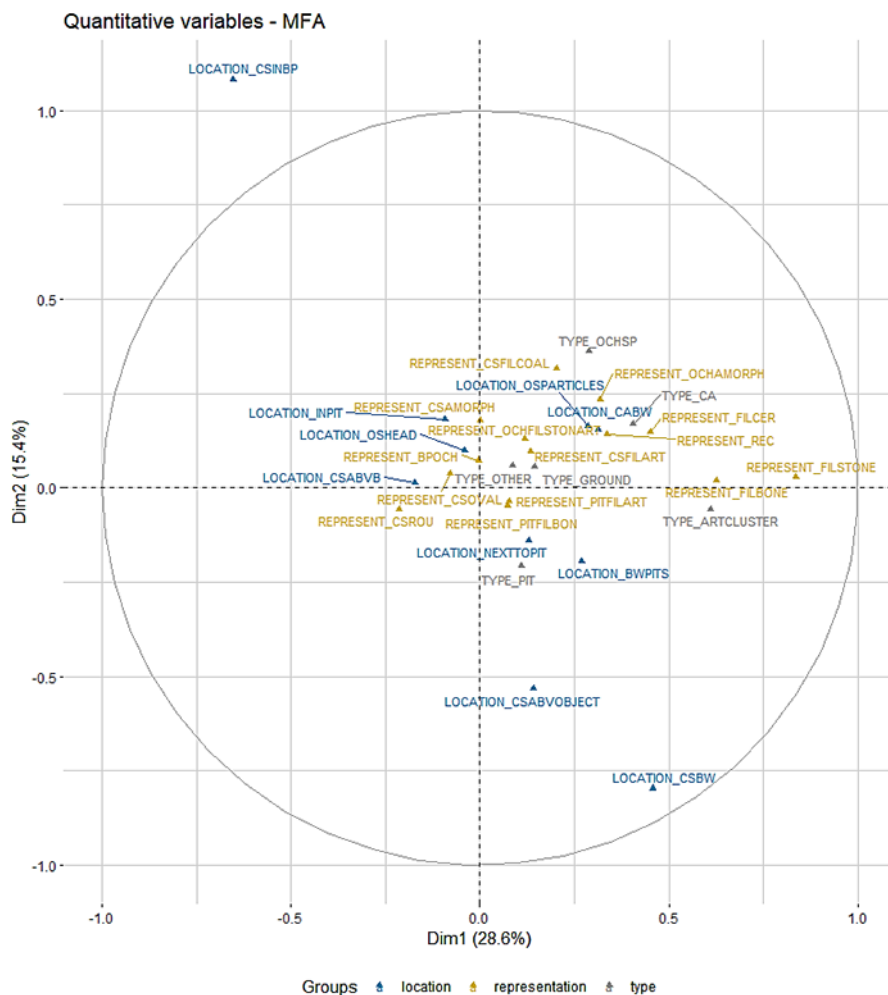


Figure 80. Accompanying burial features. Hearths. Variables. MFA.

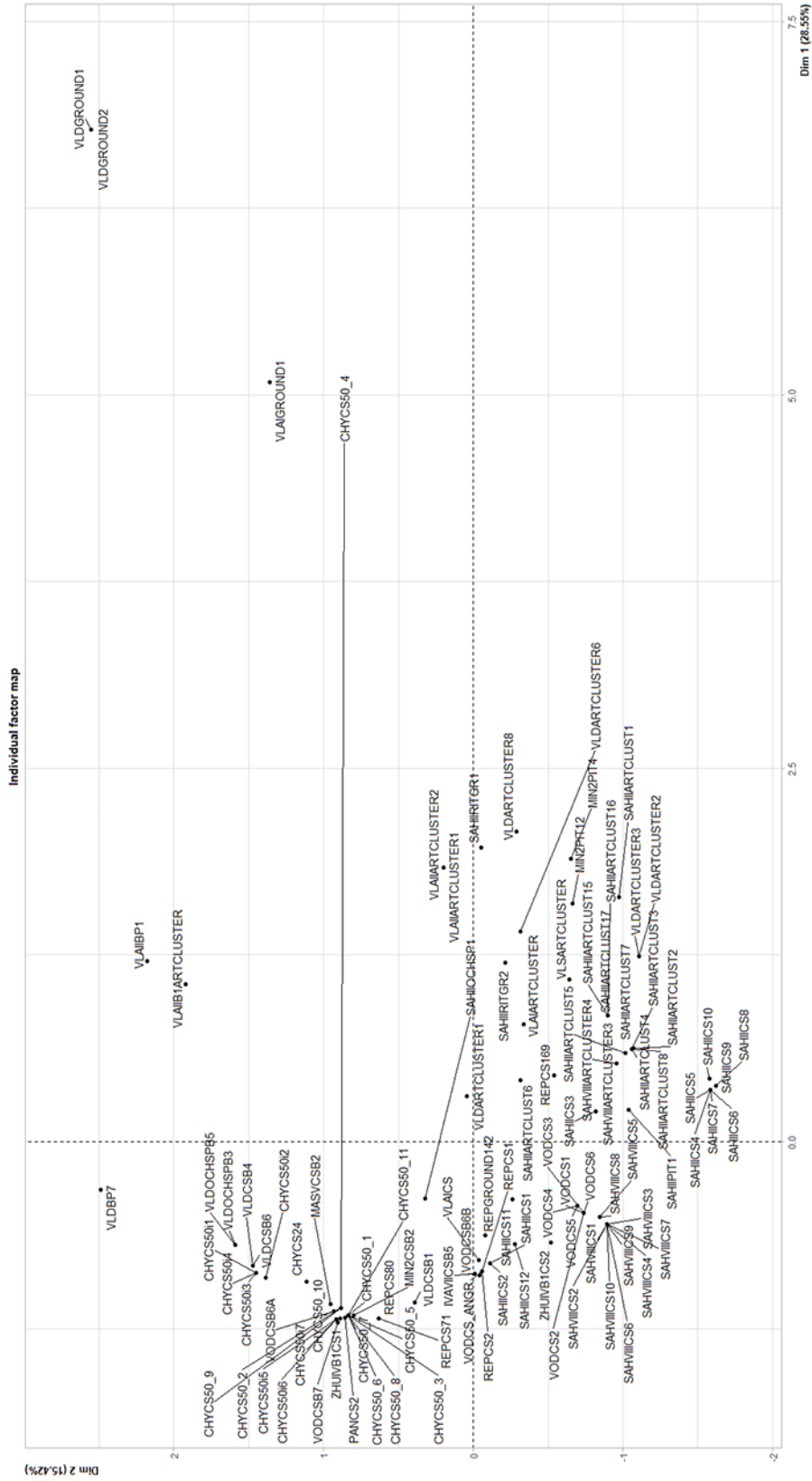


Figure 81. Accompanying burial features. Hearths. Scatter plot of individuals.

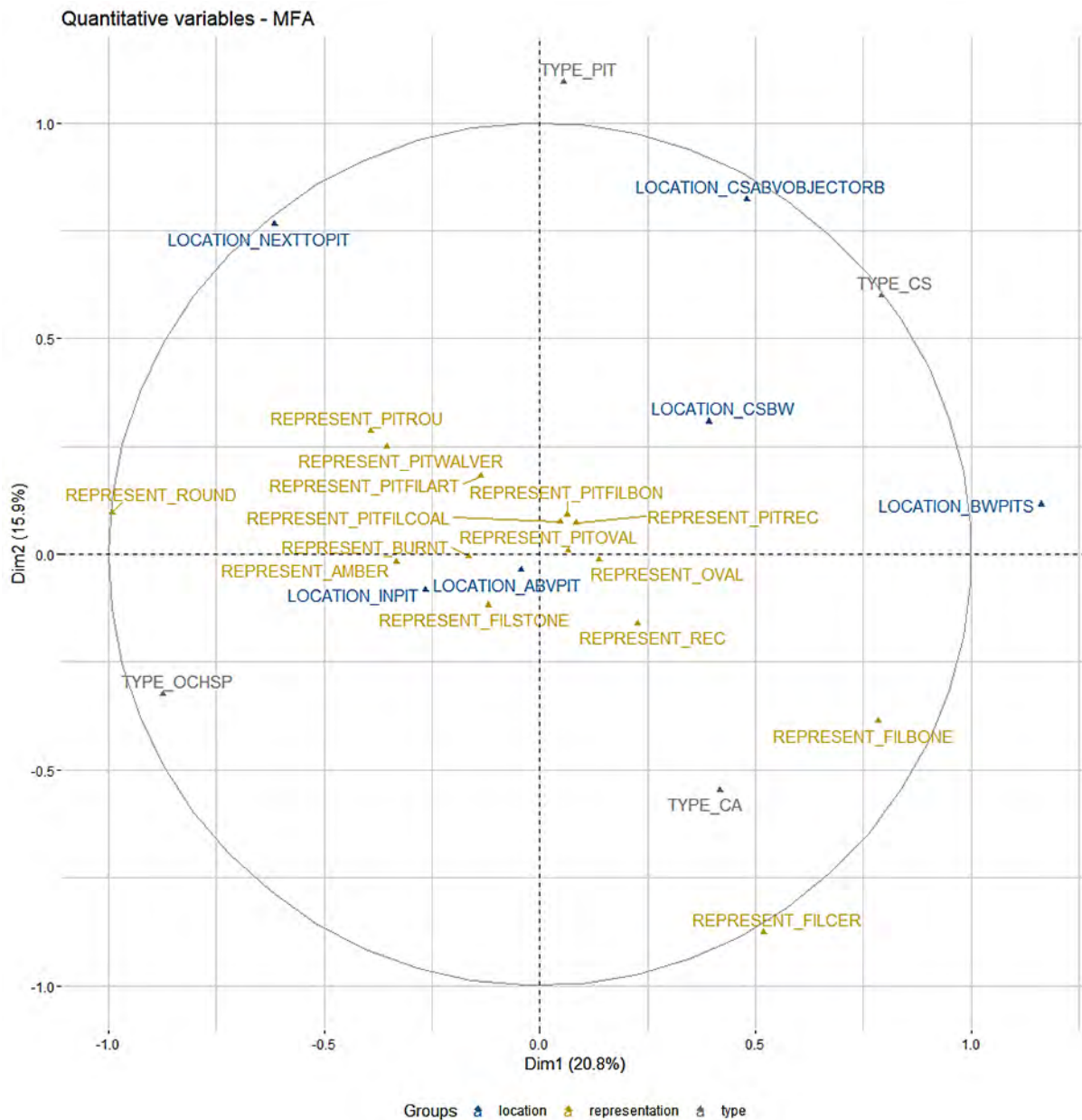


Figure 82. Accompanying burial features. Clusters of artefacts. Variables. MFA.



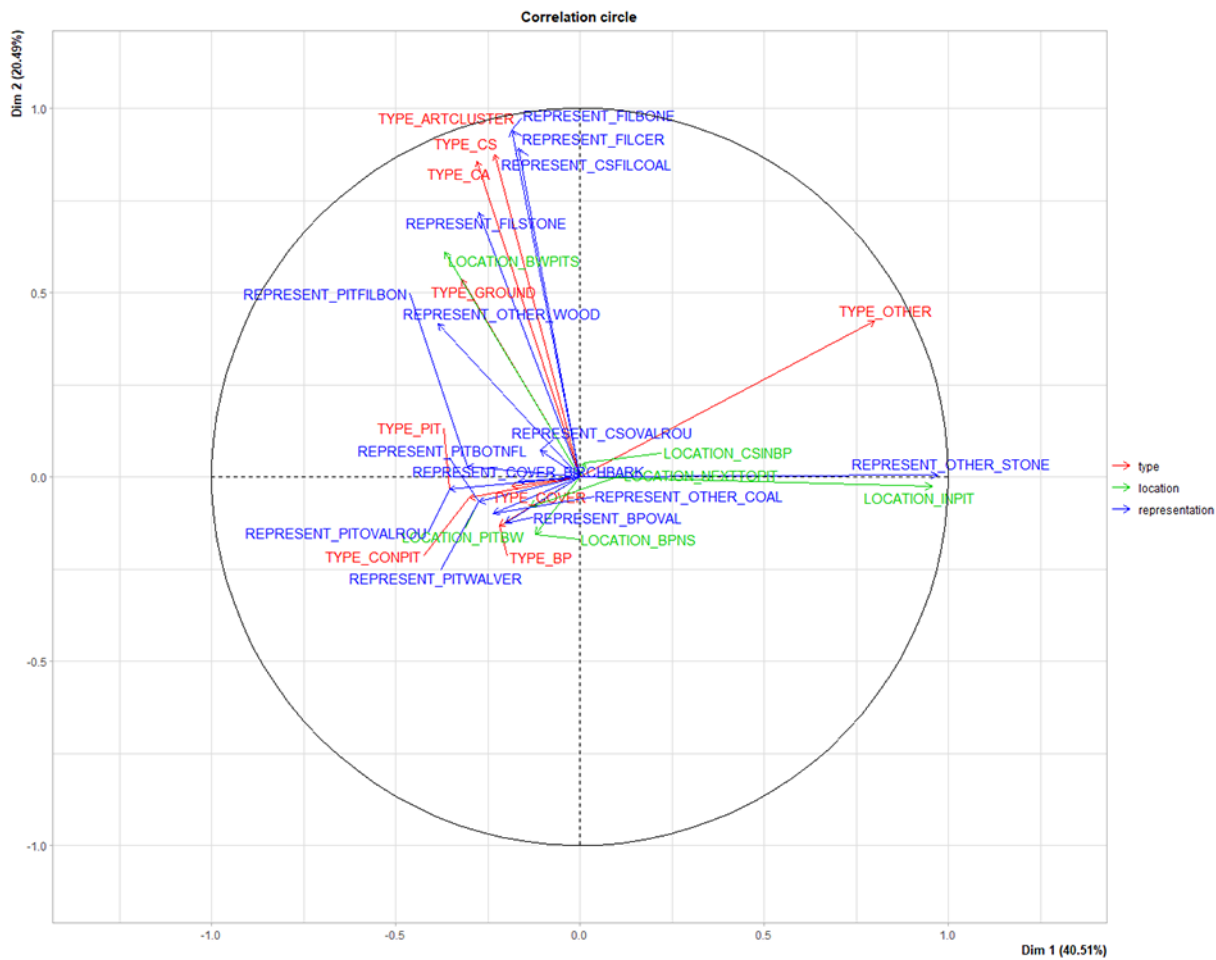


Figure 84. Accompanying burial features. Other elements (stones, covers, wooden elements).

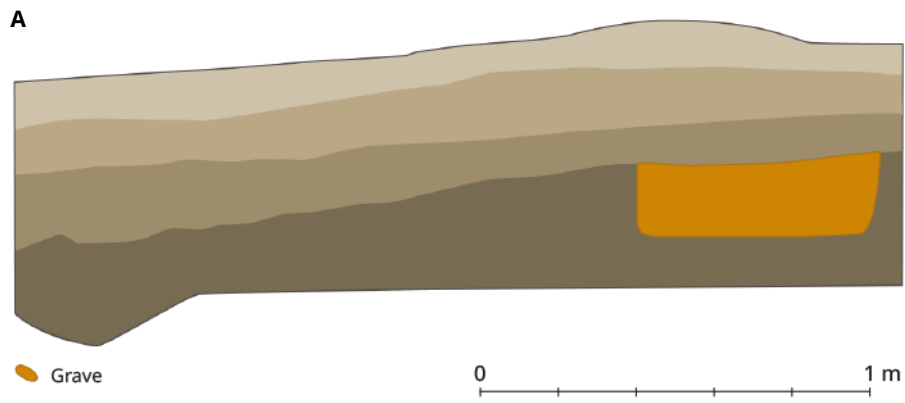


Figure 85A, B. Gul'kinskoe 2. A: Burial profile (Drawing by M. Paschenko after Zbrueva 1960, fig. 19).  
 B: Personal ornaments from grave 3 (Photo: Khalikov 1969 fig. 22).

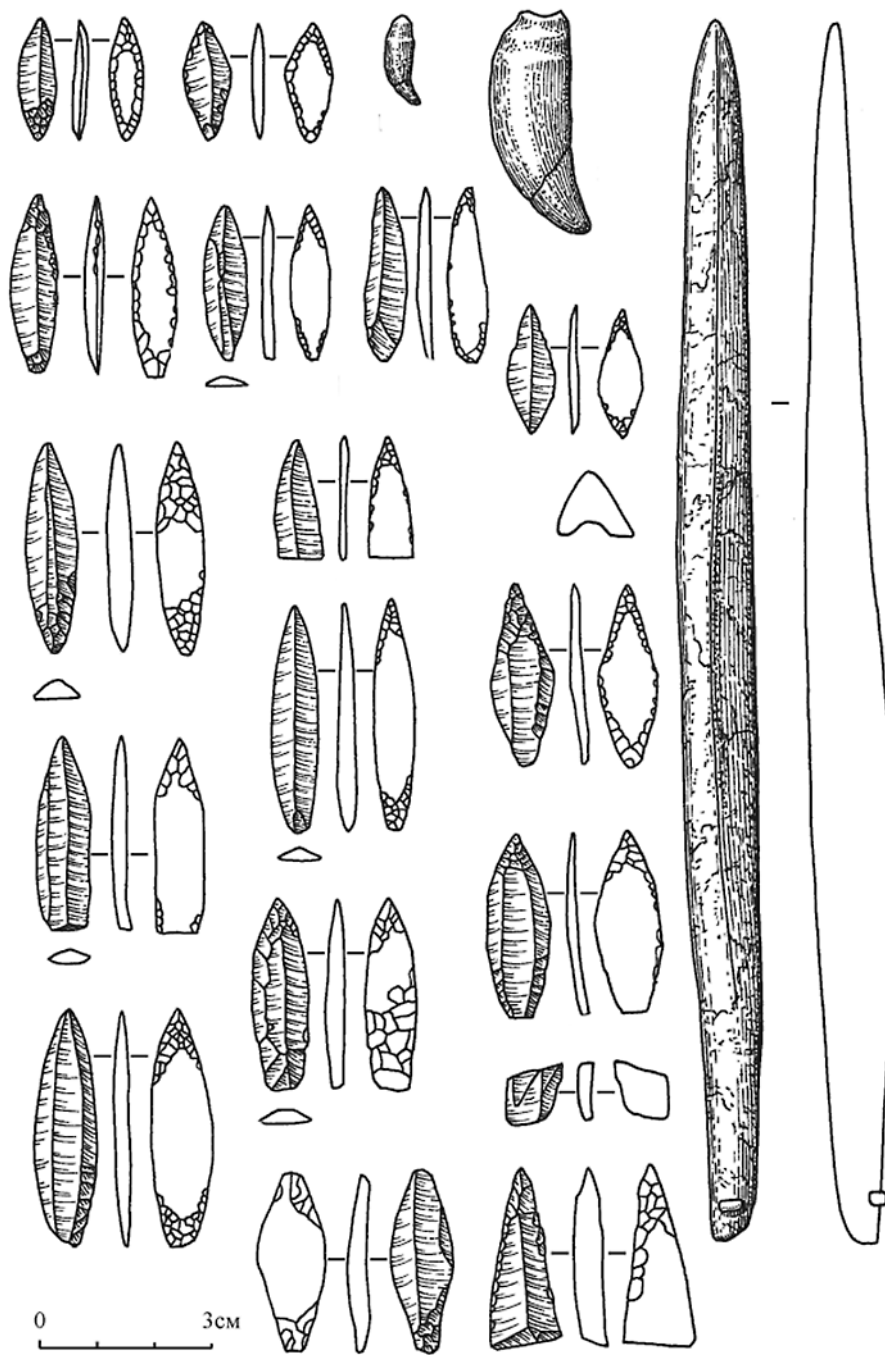


Figure 86. Minnyarovo. Burial kit (after Kazakov 2011, fig. 119, reproduced here by courtesy of E. P. Kazakov).

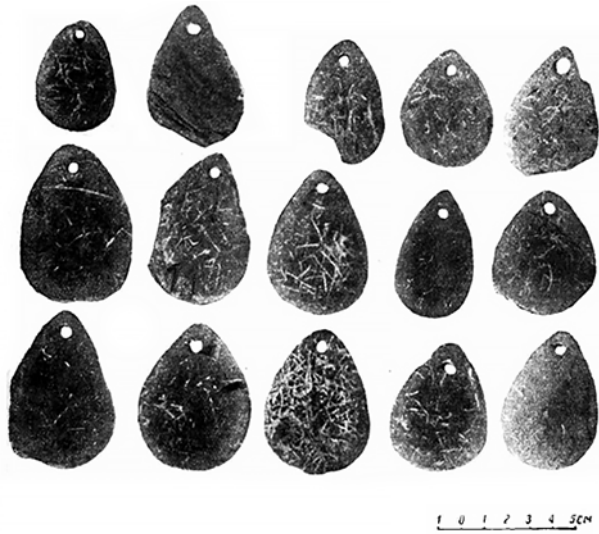


Figure 87. Starichniy Greben'. Personal ornaments found with the deceased (Photo: after Bibikov 1950, fig. 17).

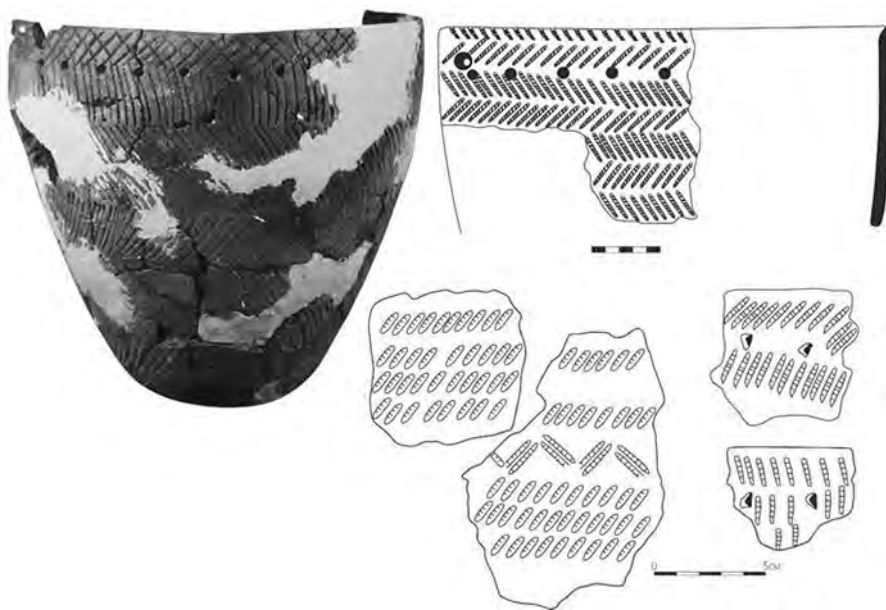


Figure 88. Staro-Nagaevskiy 2. Ceramics from the burial pits (after Morozov 2019, fig. 7).

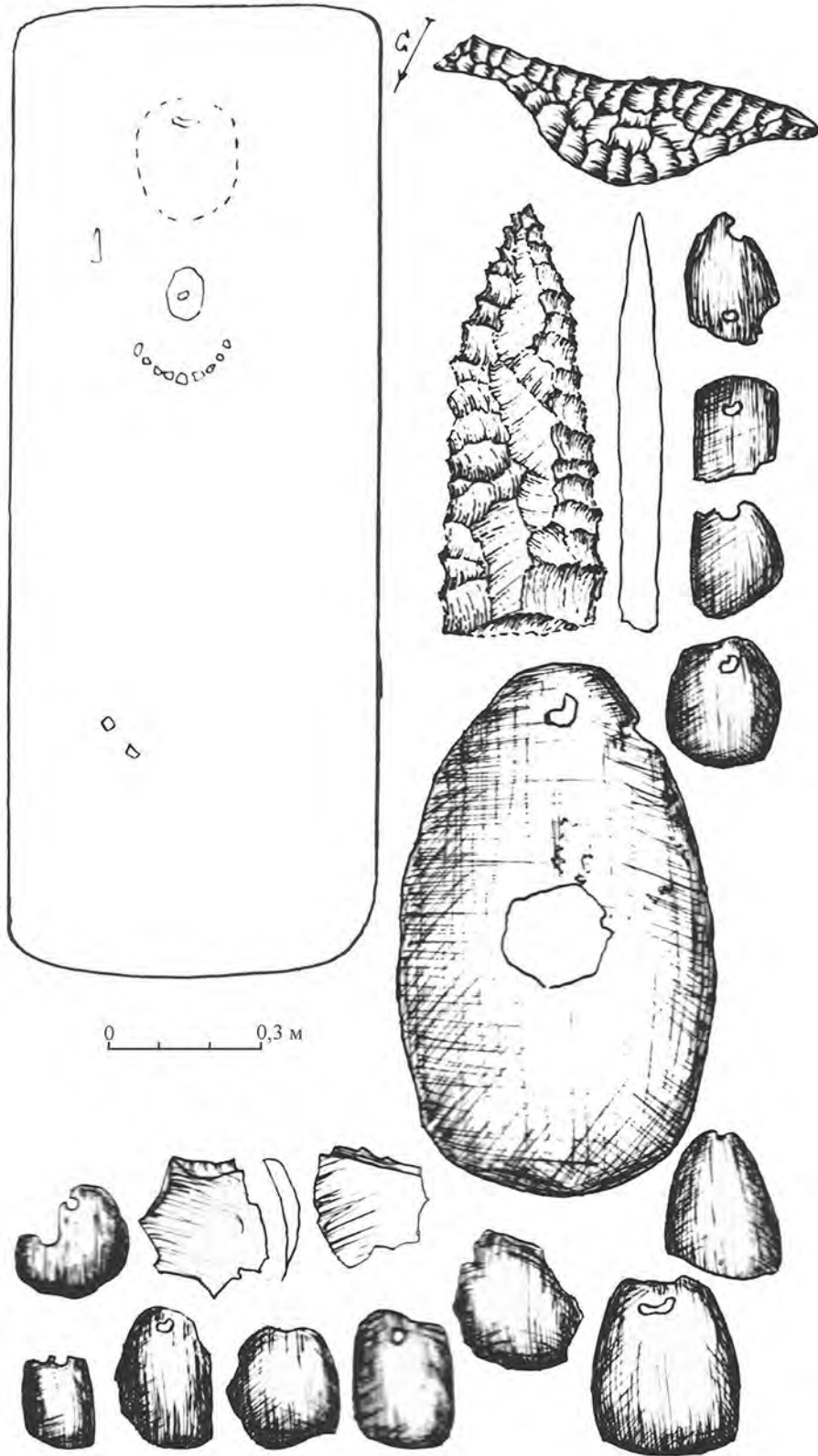


Figure 89. Tennishevo grave 8 (after Gabyashev and Begovatov 1984, fig. 7).

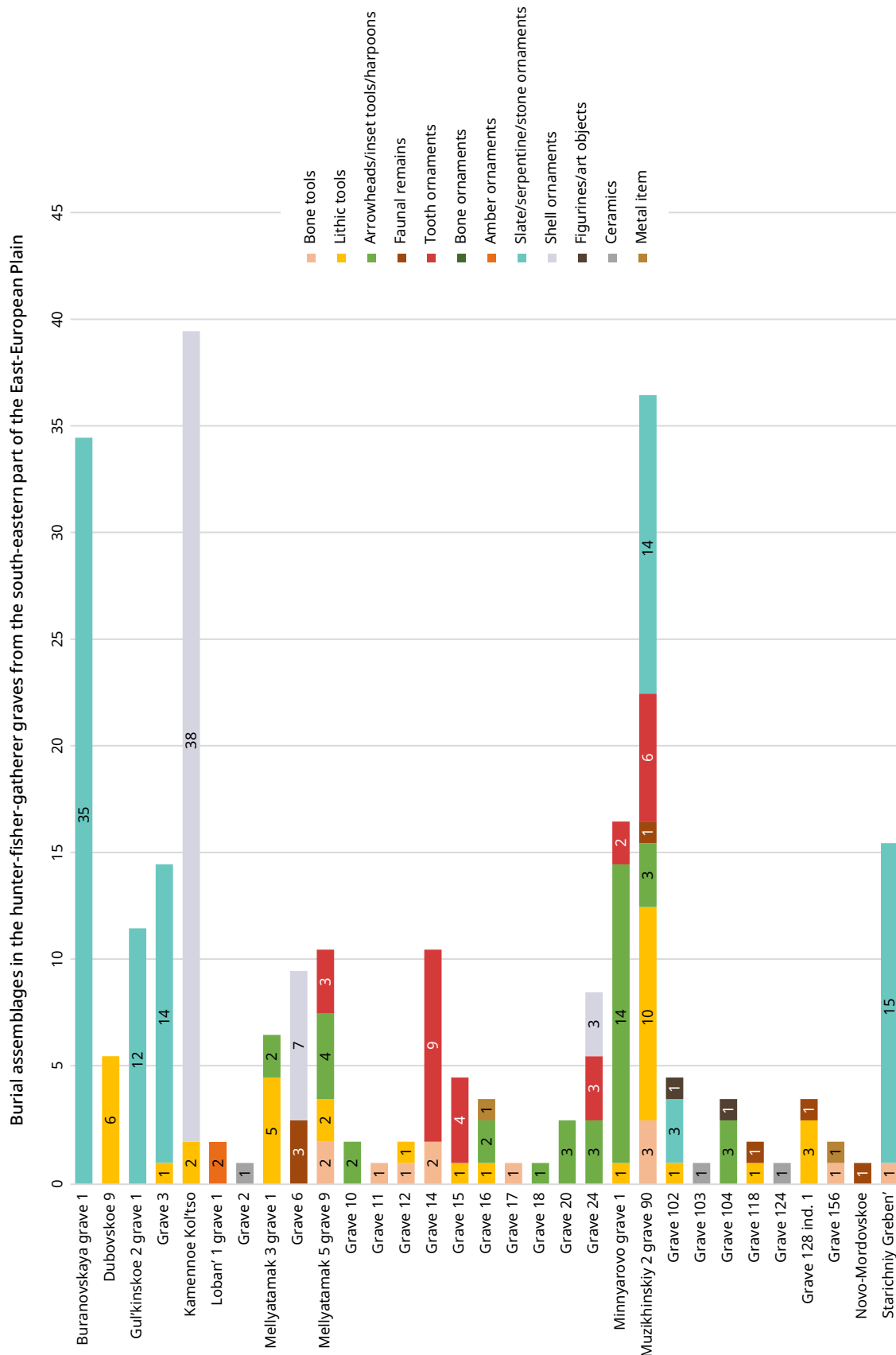


Figure 90. Burial assemblages in the hunter-fisher-gatherer graves from the southeastern part of the East European Plain.

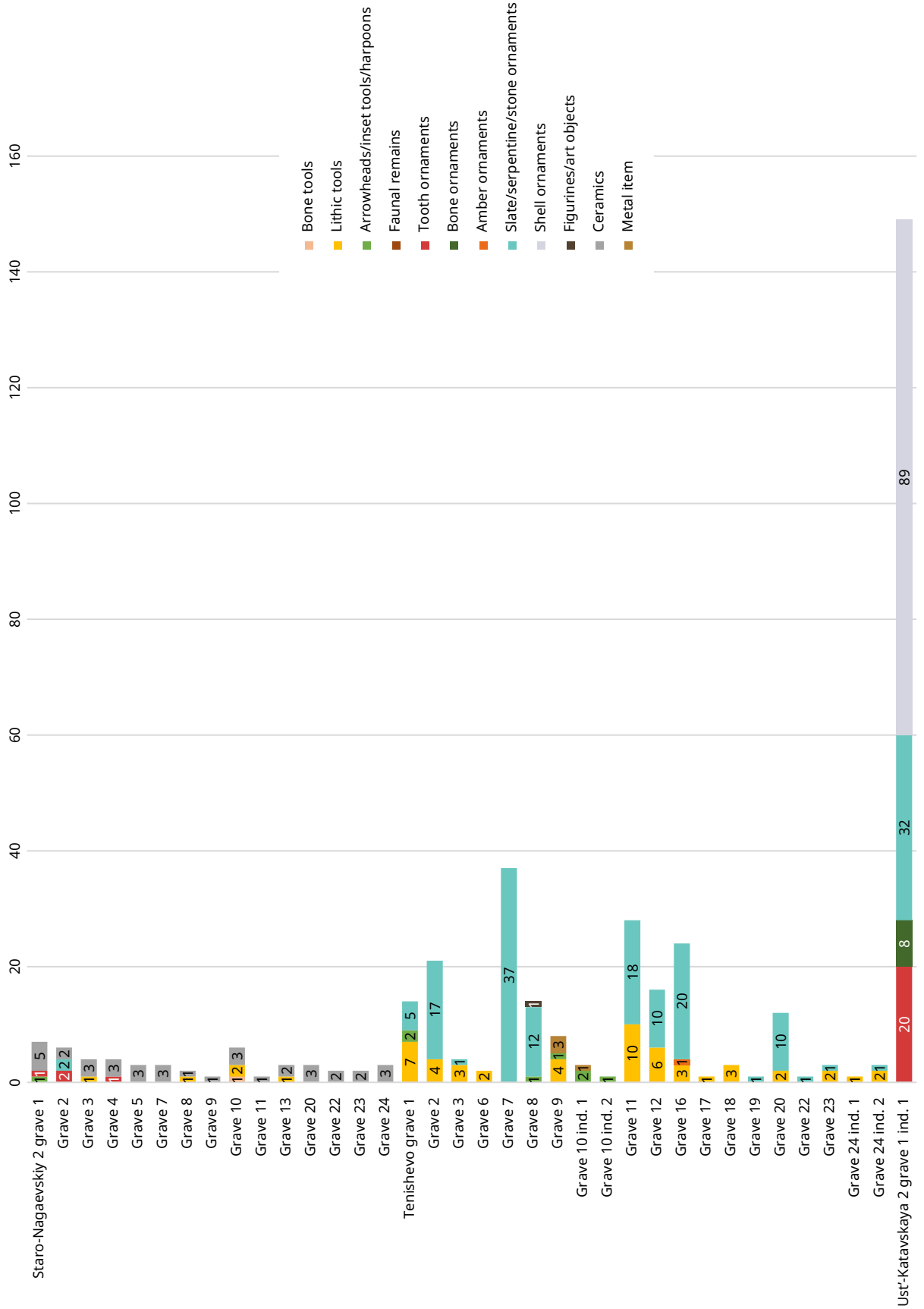




Figure 91A, B. Berendeevo 1. A: Burial 1 (Photo: after Nikitin 1976, fig. 6). B: Fragment of cloth and rope found in burial 1 (Photo: after Nikitin 1976, fig. 7).

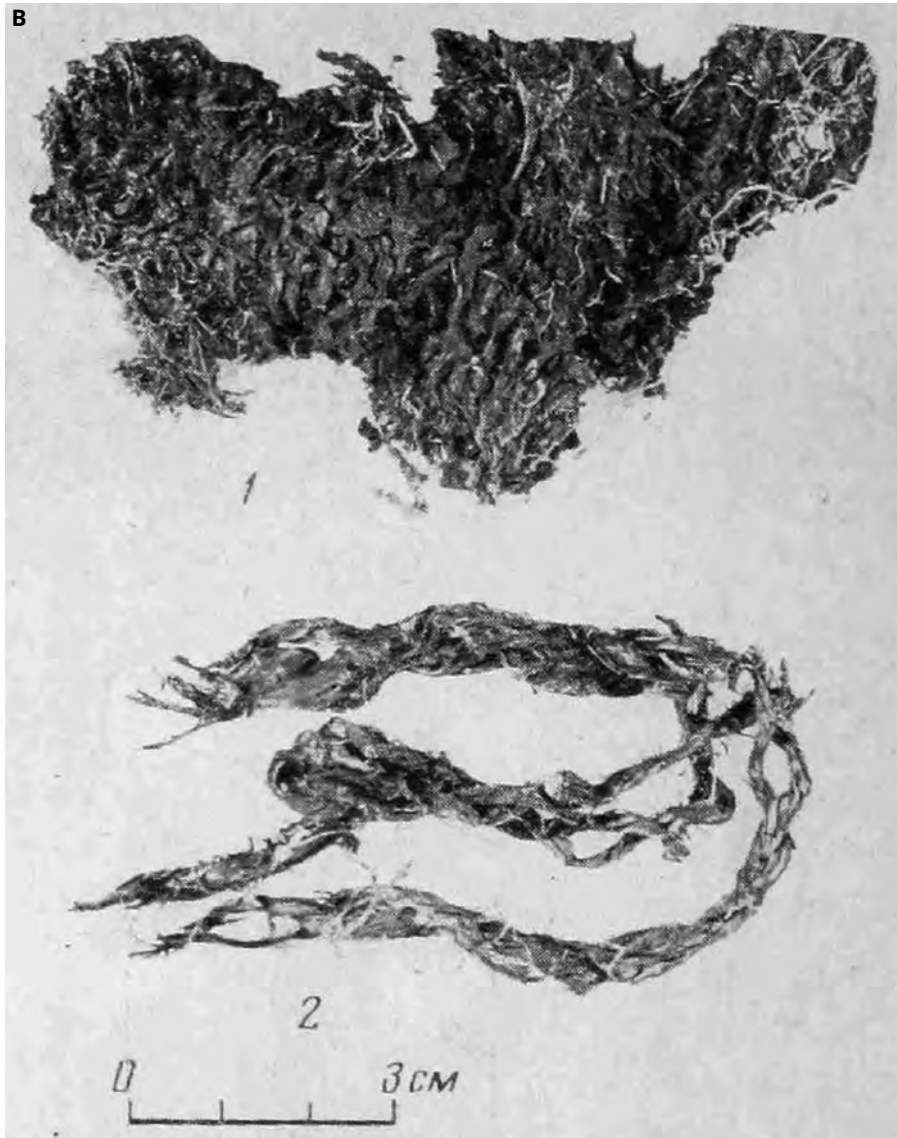


Figure 91A, B. Berendeevo 1. A: Burial 1 (Photo: after Nikitin 1976, fig. 6). B: Fragment of cloth and rope found in burial 1 (Photo: after Nikitin 1976, fig. 7).

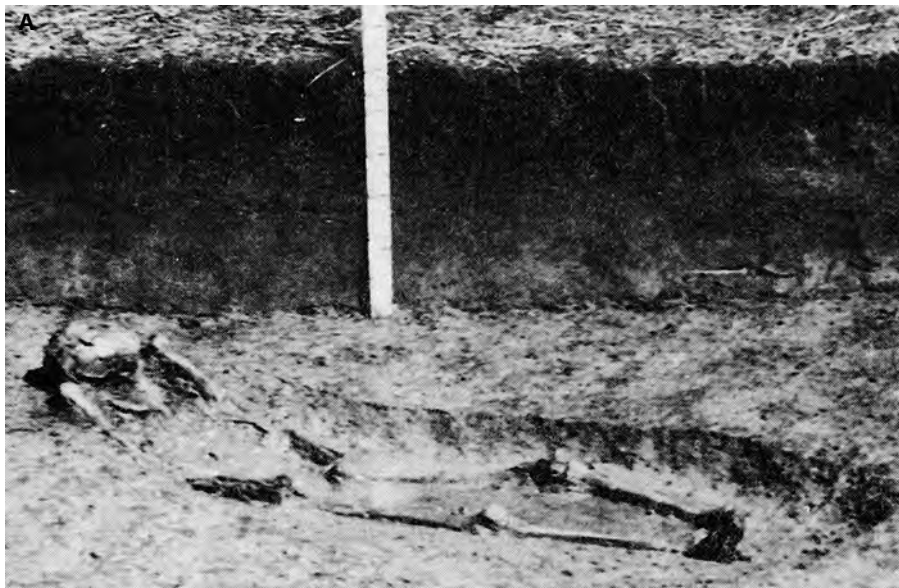


Figure 92A, B. Ivanovskoe 7. A: Burial 3, B: Burial 5 (after Zhilin et al. 2002, fig. 102, 104. Photos: A. V. Utkin, reproduced here by curtesy of A. V. Utkin).

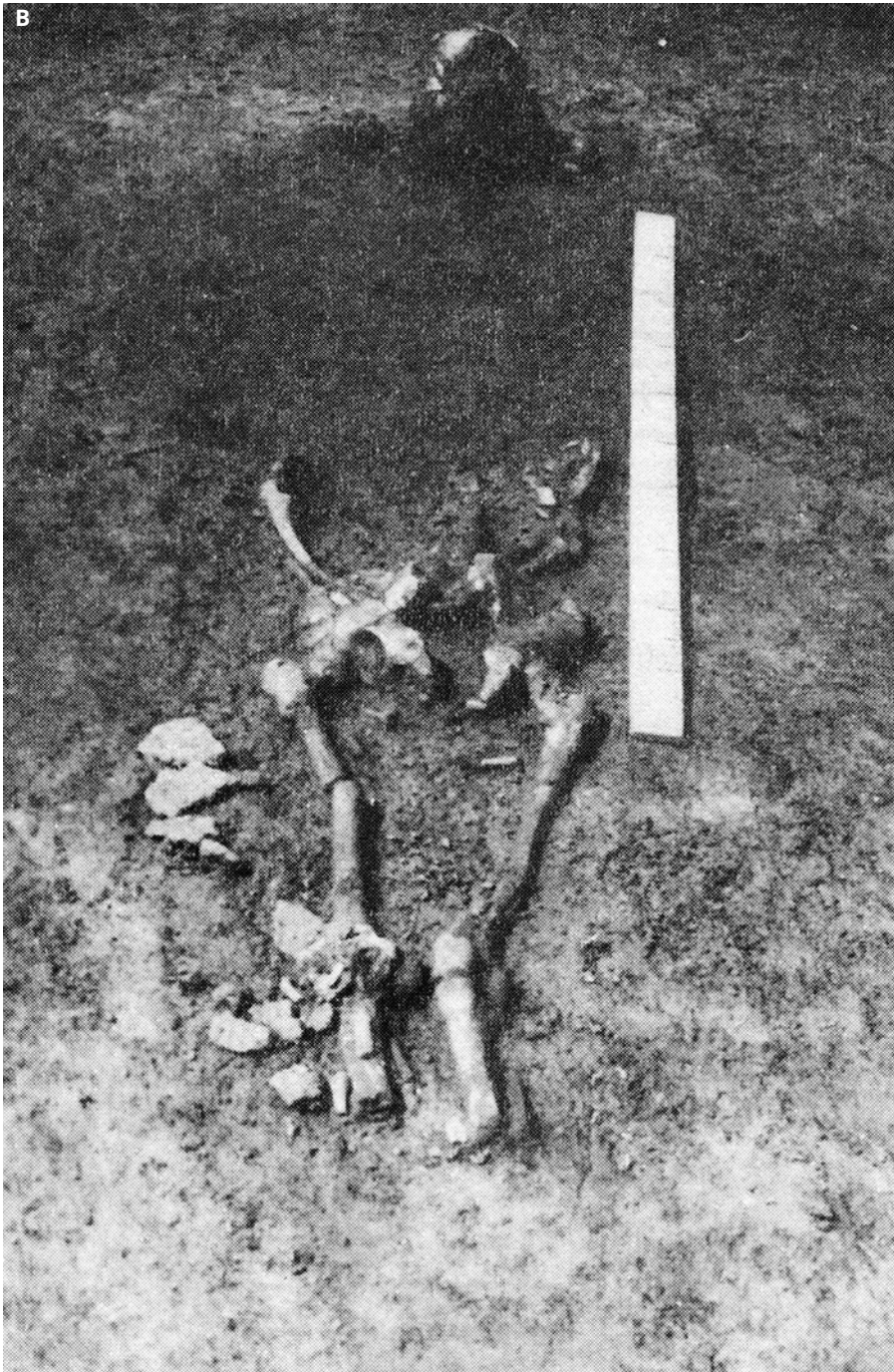


Figure 92A, B. Ivanovskoe 7. A: Burial 3, B: Burial 5 (after Zhilin et al. 2002, fig. 102, 104. Photos: A. V. Utkin, reproduced here by courtesy of A. V. Utkin).



Figure 93A, B. Konchanskiy. A: Grave 8 (Photo: after Zimina 1999). B: Grave 232. Amber ornaments (Photo: after Zimina 1999).



Figure 93A, B. Konchanskiy. A: Grave 8 (Photo: after Zimina 1999). B: Grave 232. Amber ornaments (Photo: after Zimina 1999).

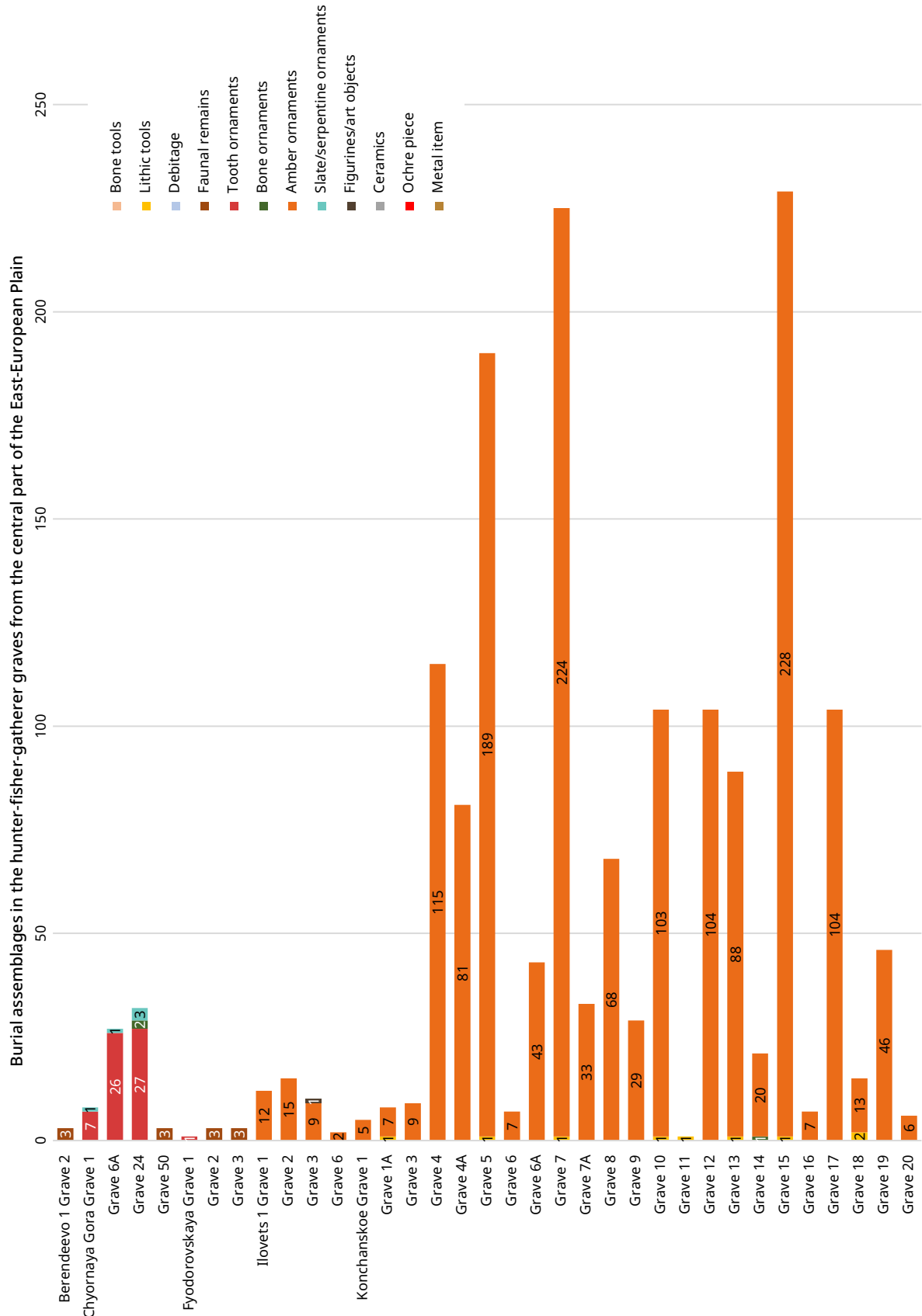
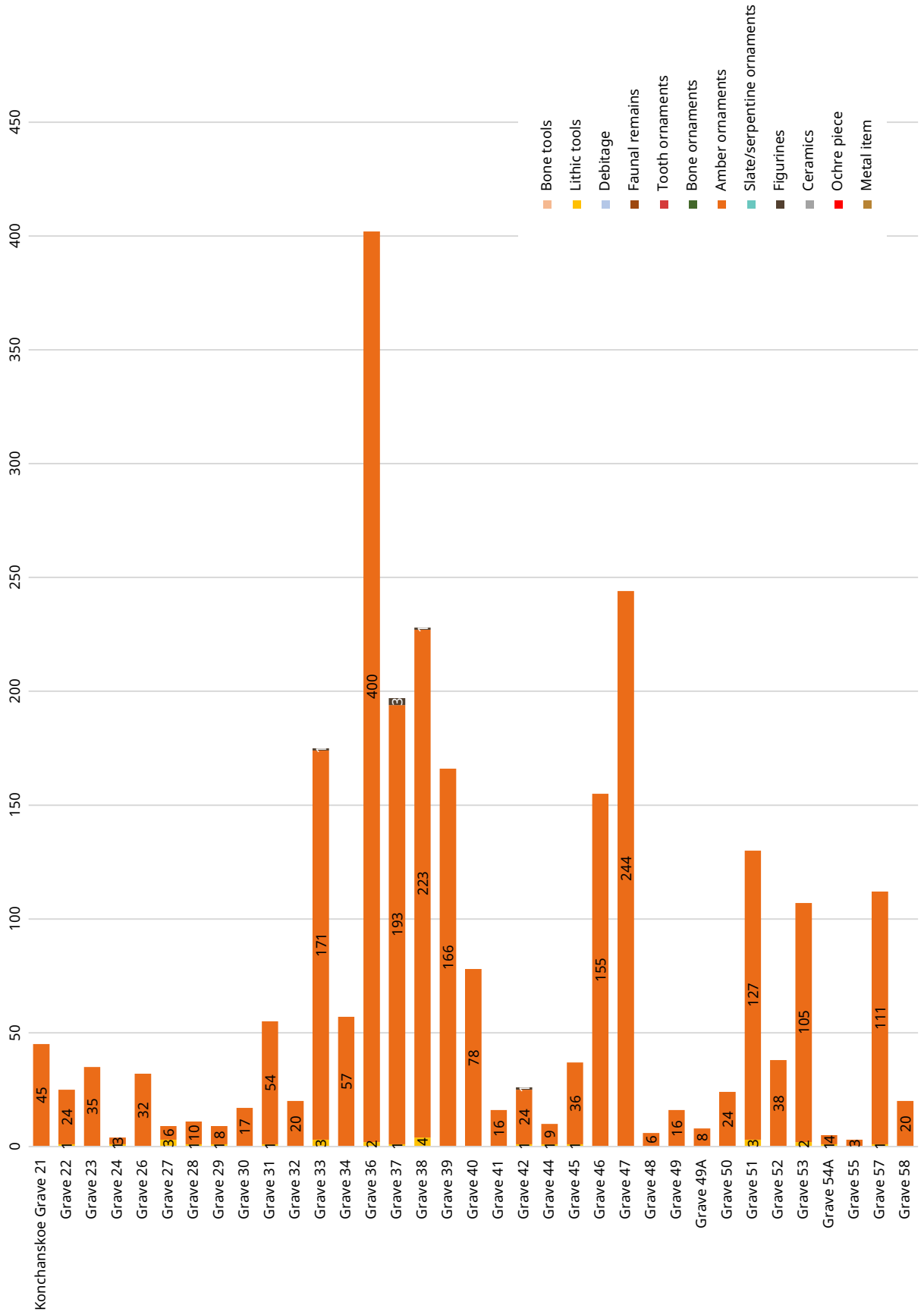
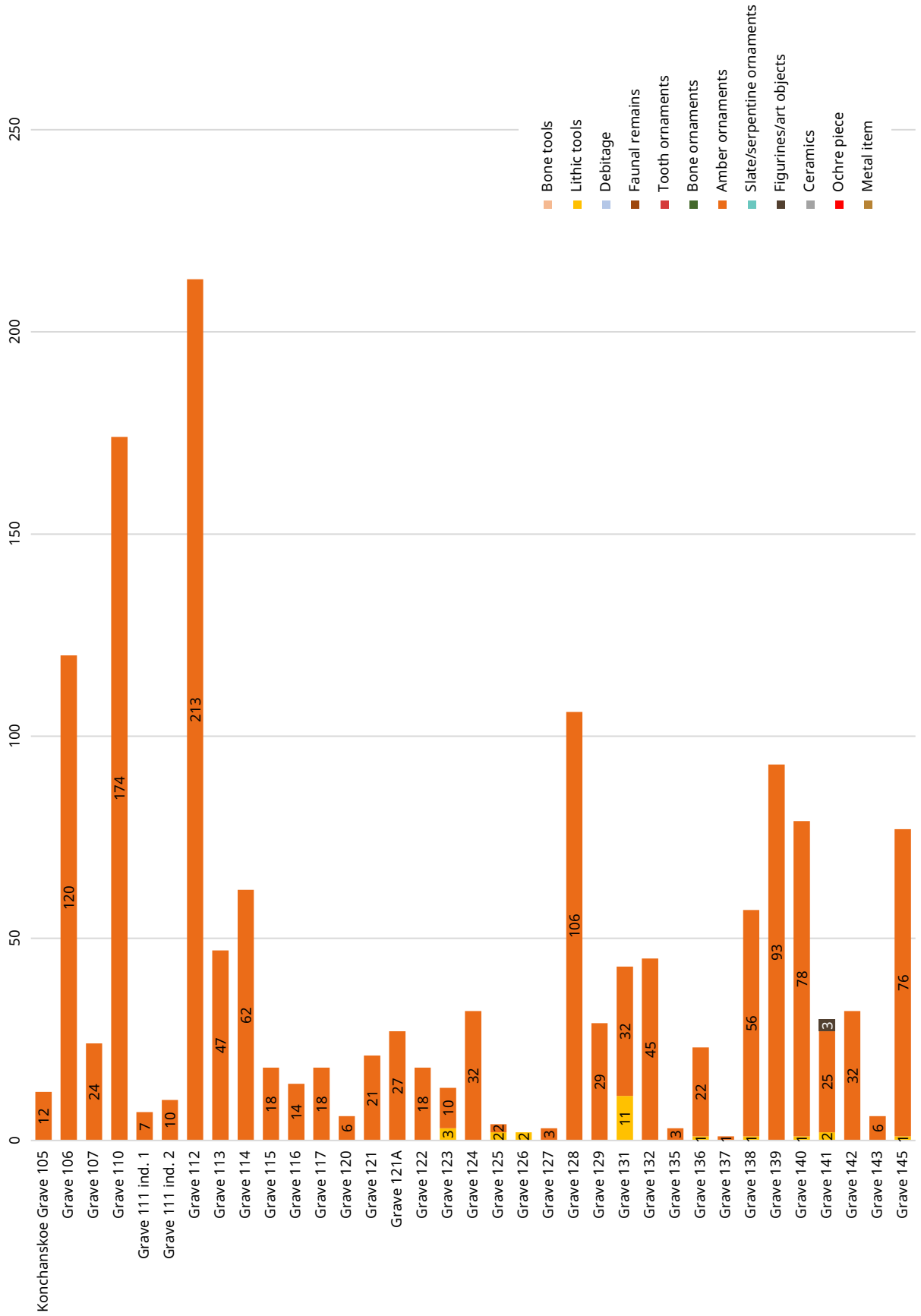


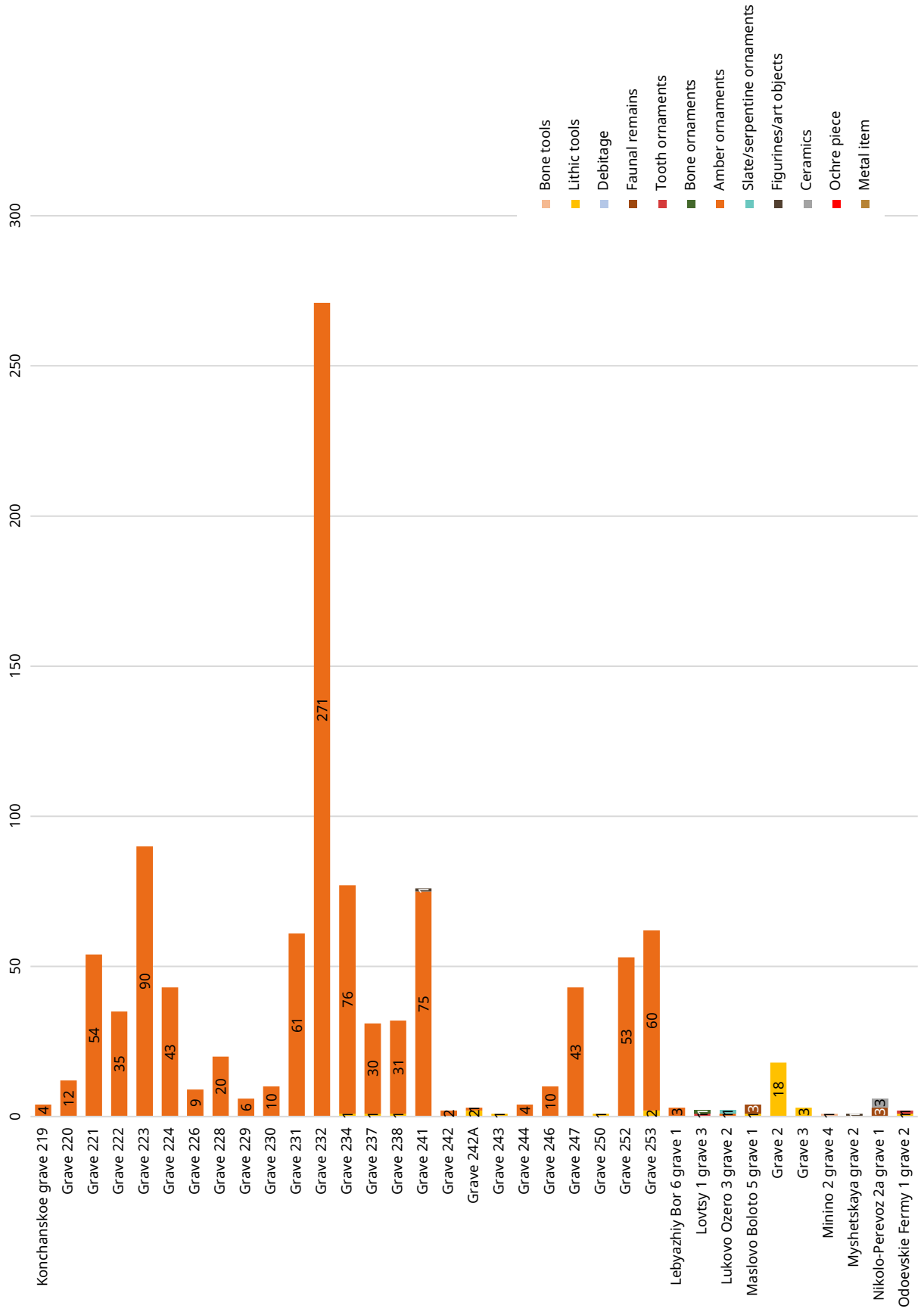
Figure 94. Burial assemblages in the hunter-fisher-gatherer graves from the central part of the East European Plain.



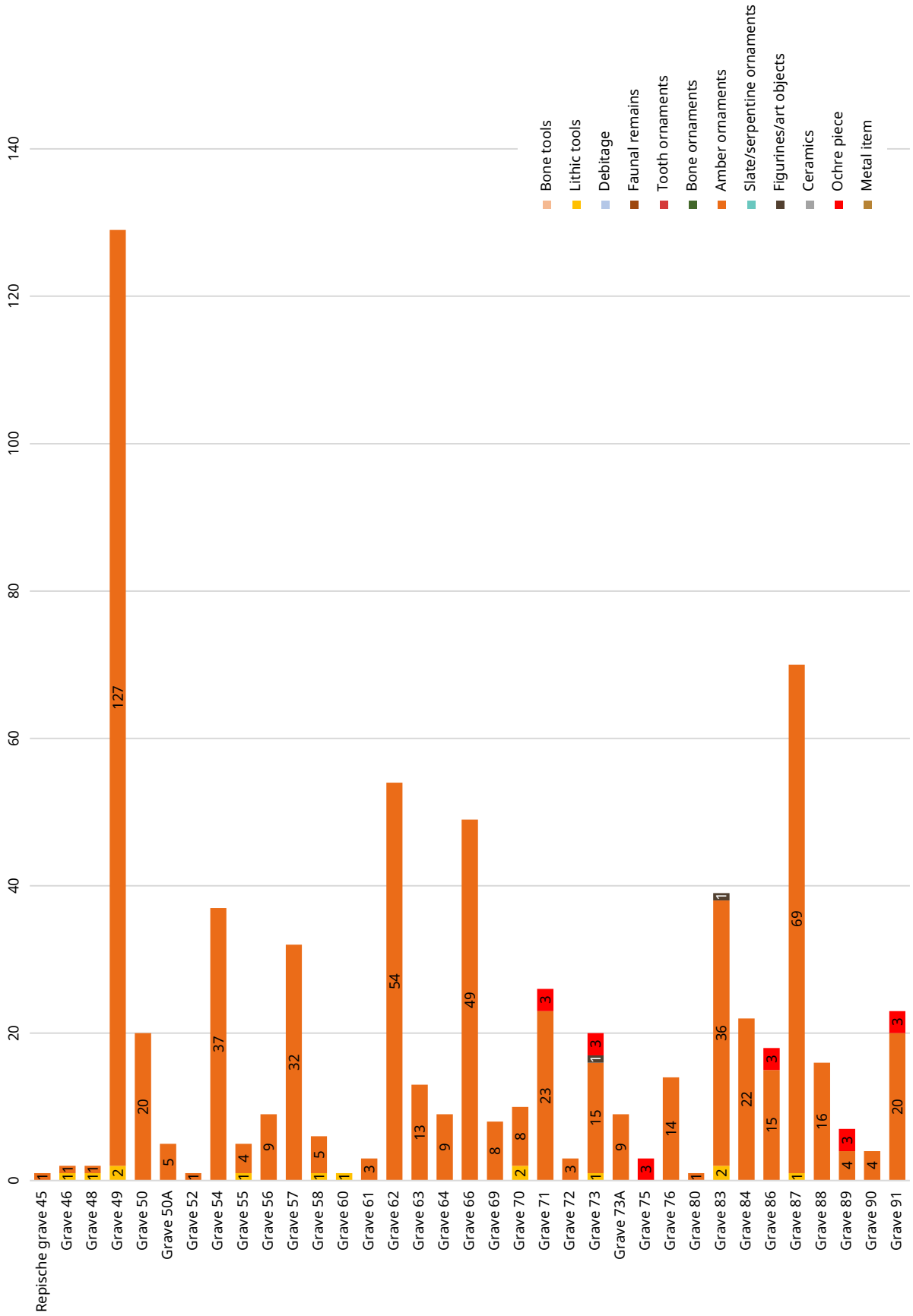




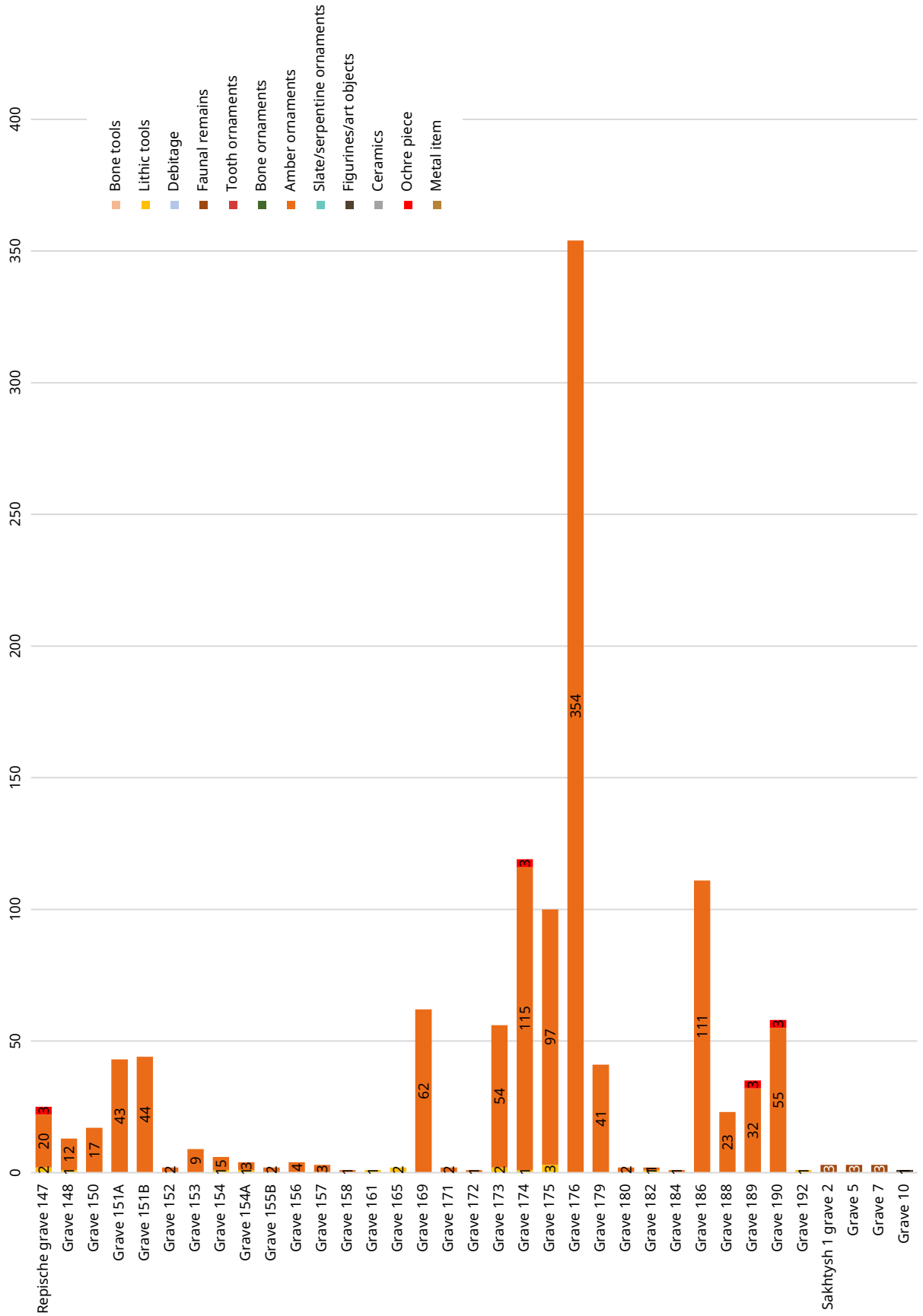


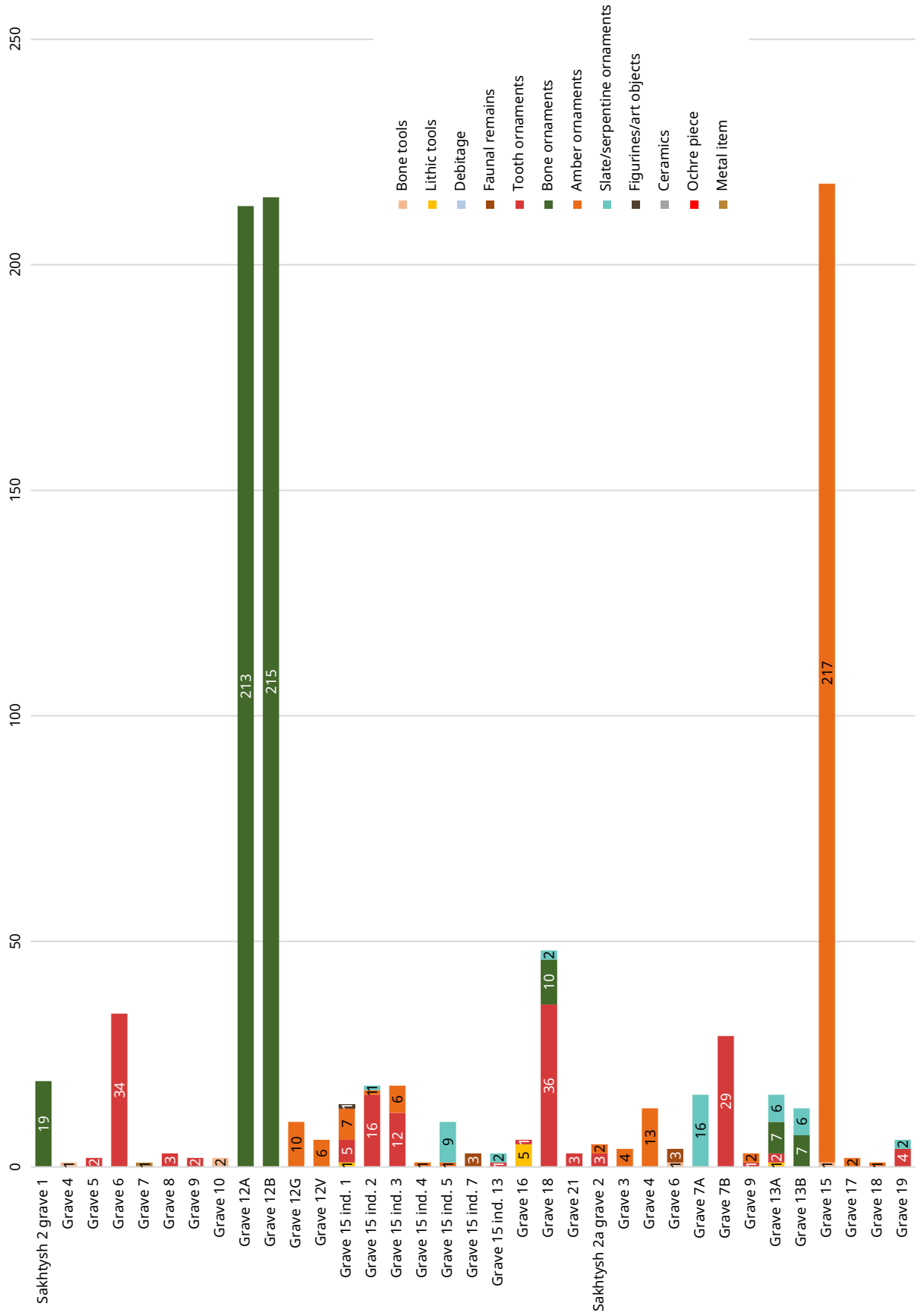




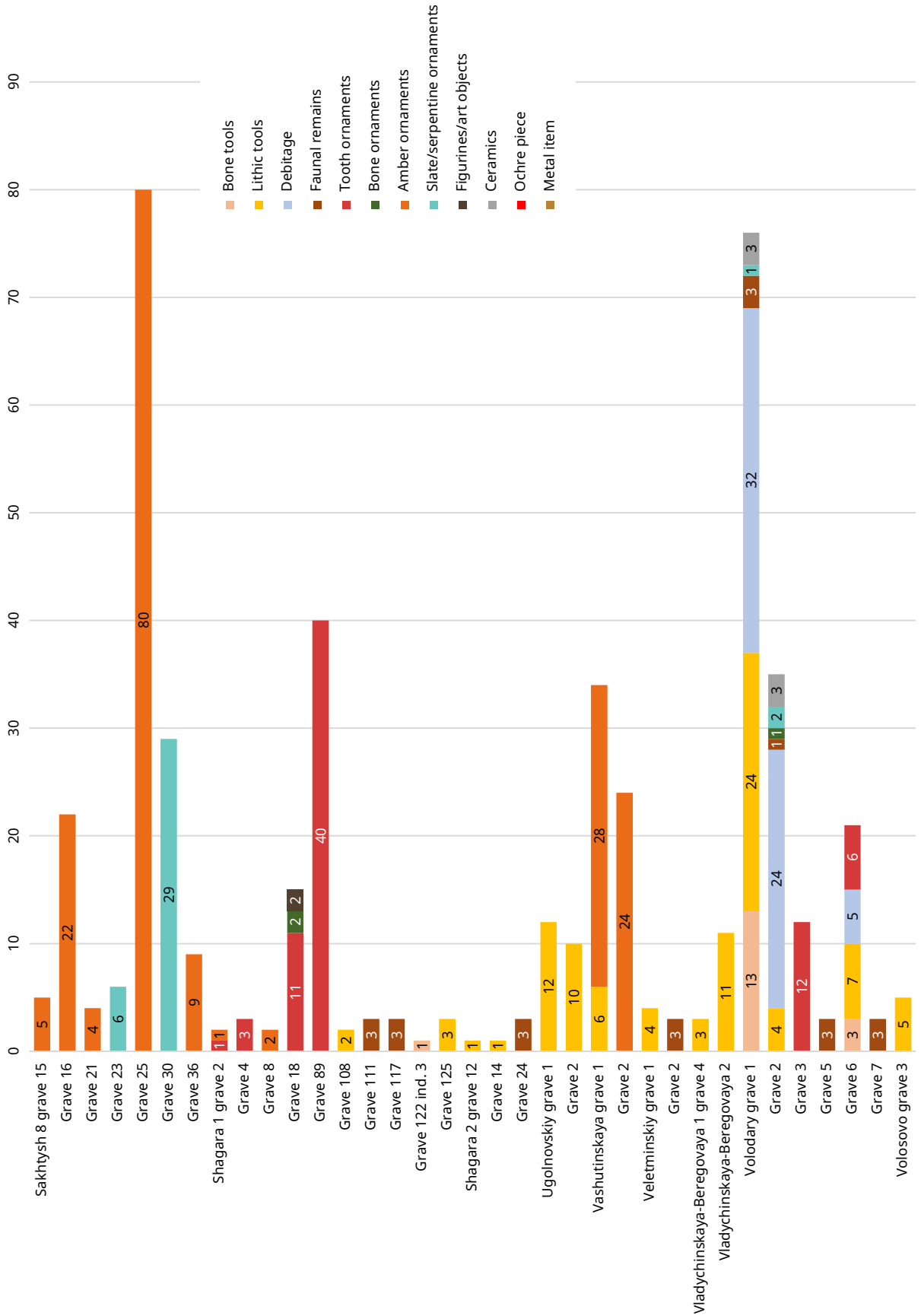












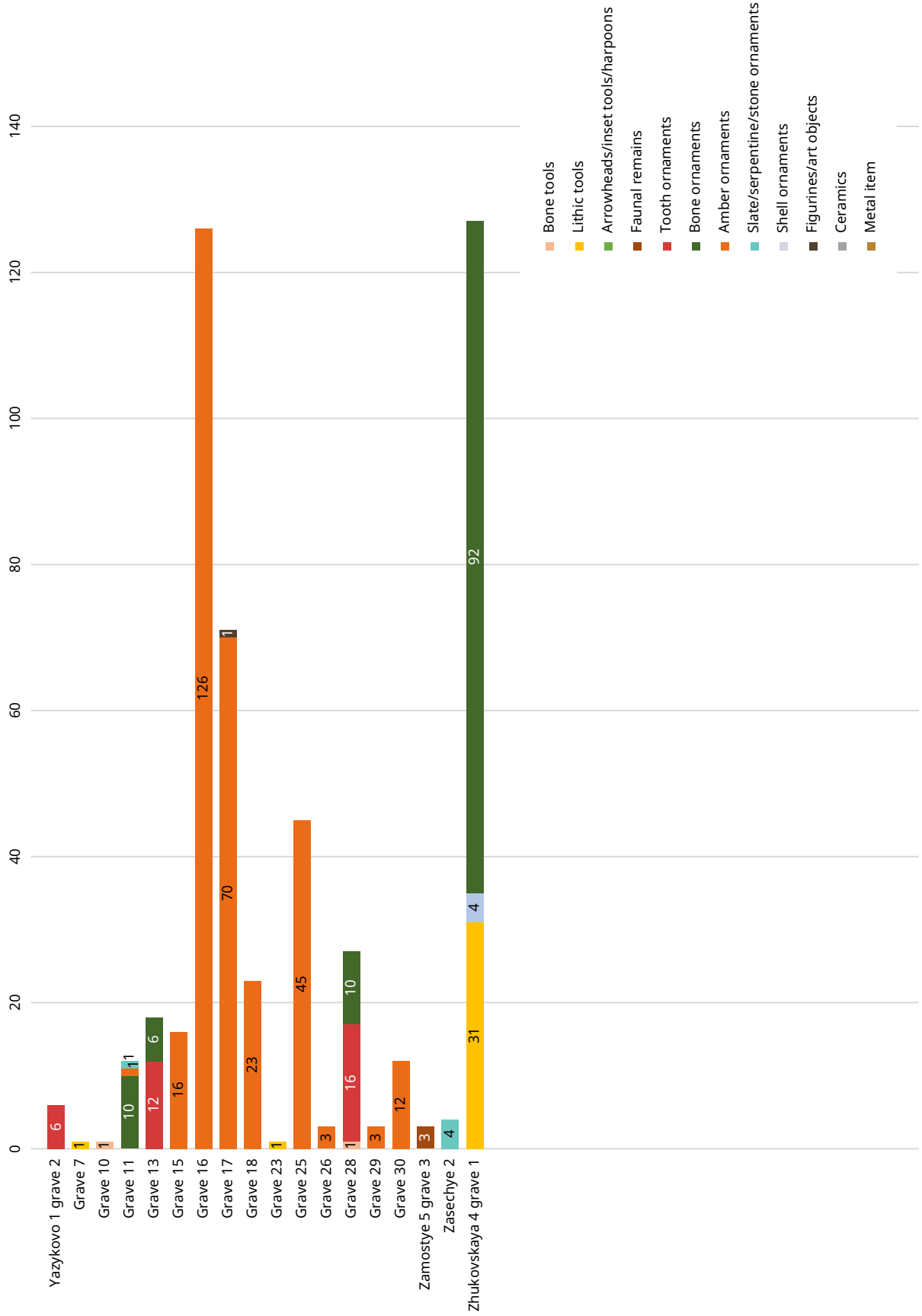




Figure 95. Yuzhniy Oleniy Ostrov. Burial 100. Details (Photos: after Gurina 1956, figs. 14, 15).

