SUPPLEMENTARY MATERIAL S5

Comparison of Classical MLE and Range-density MLE for all 124 analyzed taxa

Diversity-Basel

A Model of Southern Sikhote-Alin Liverwort Flora and a New Approach to Analyze the Altitudinal Distribution Patterns in the Zov Tigra National Park (South of the Russian Far East, Temperate Pacific Asia)

Ksenia G. Klimova, Vadim A. Bakalin, Daniil A. Bakalin and Seung Se Choi

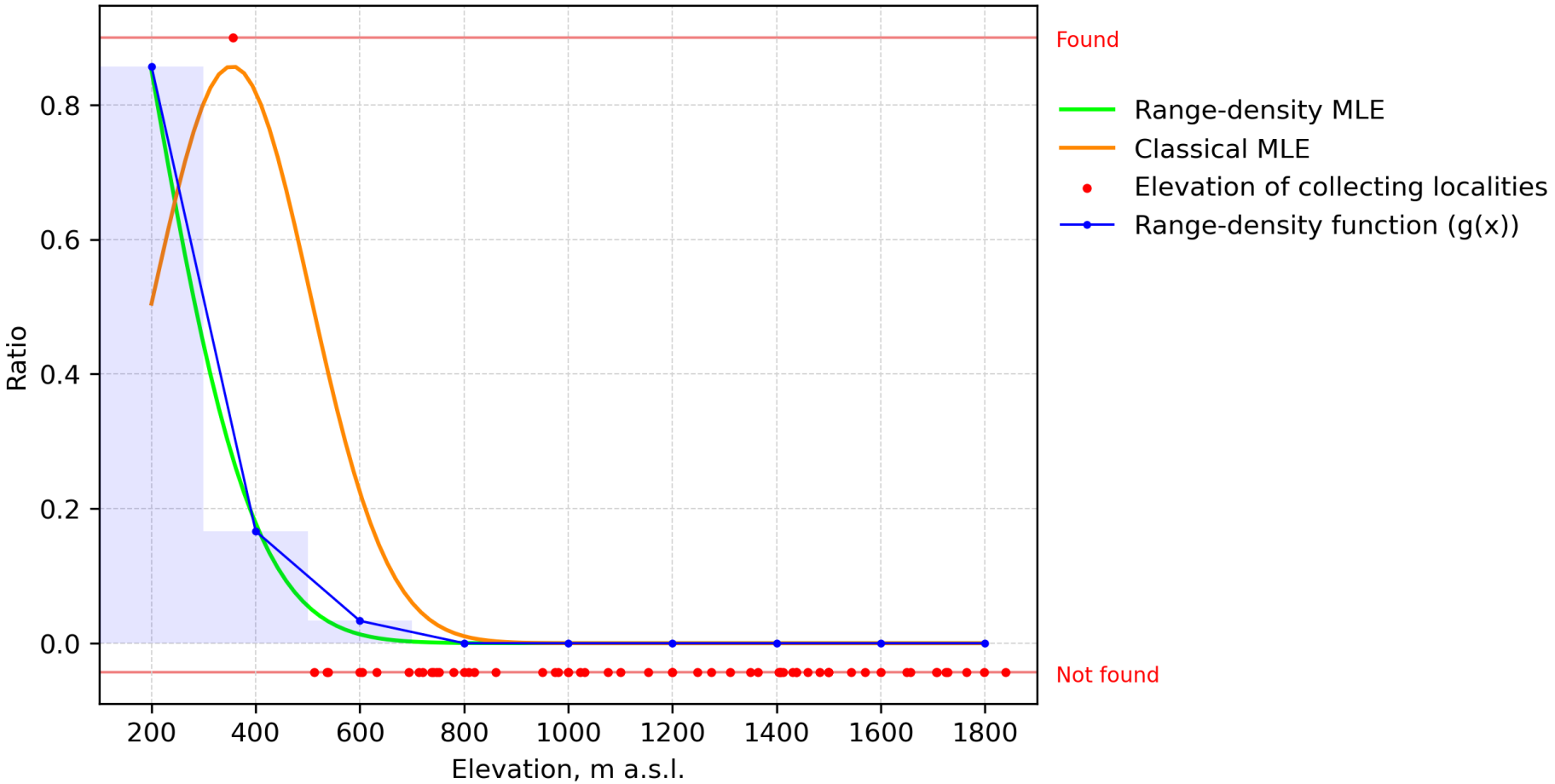


Figure 1. The ratio of the number of occurrences of Acrolejeunea sandvicensis (Gottsche) Steph to the number of locations where the research was conducted

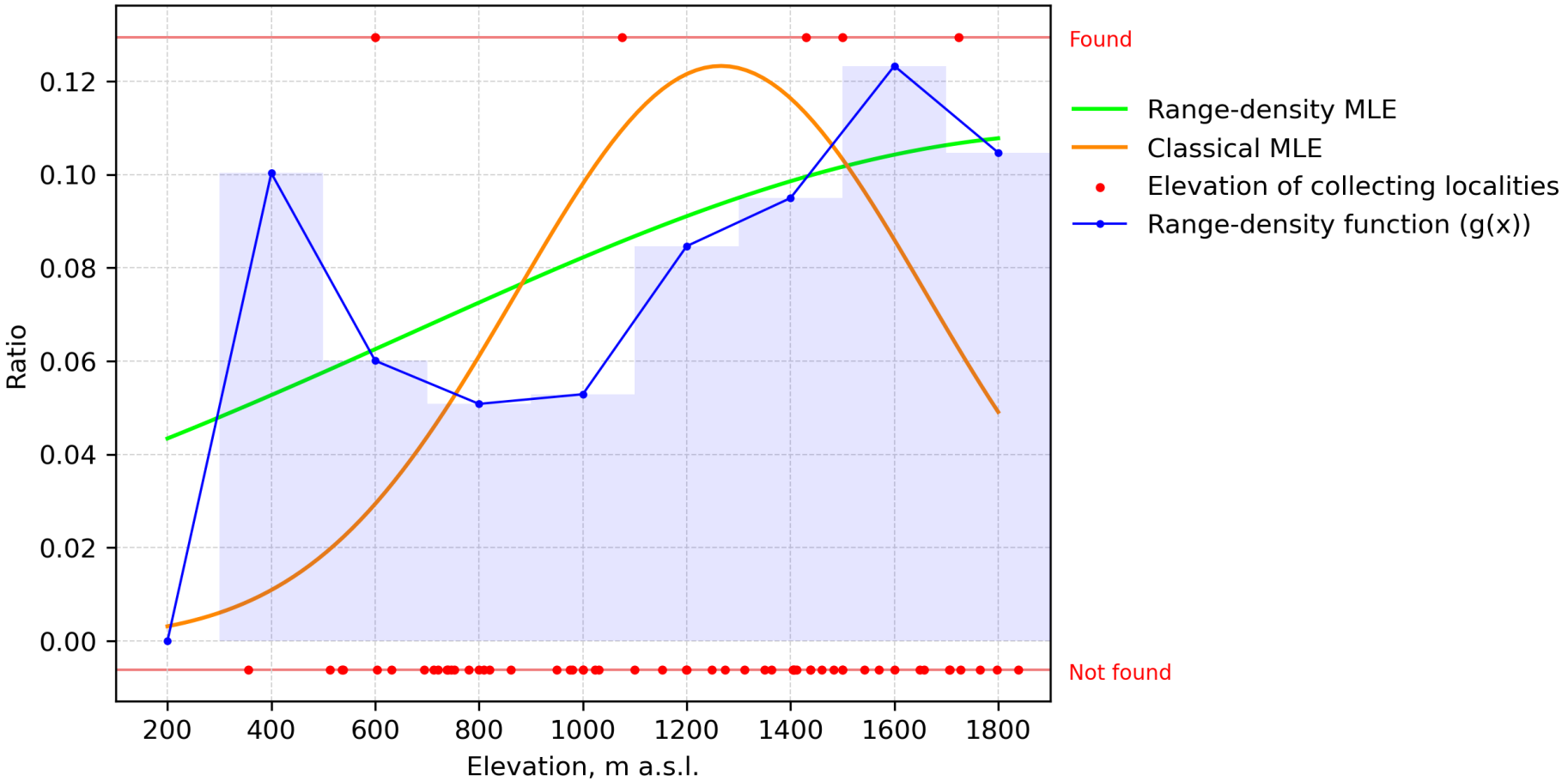


Figure 2. The ratio of the number of occurrences of Anastrophyllum michauxii (F.Weber) H.Buch to the number of locations where the research was conducted

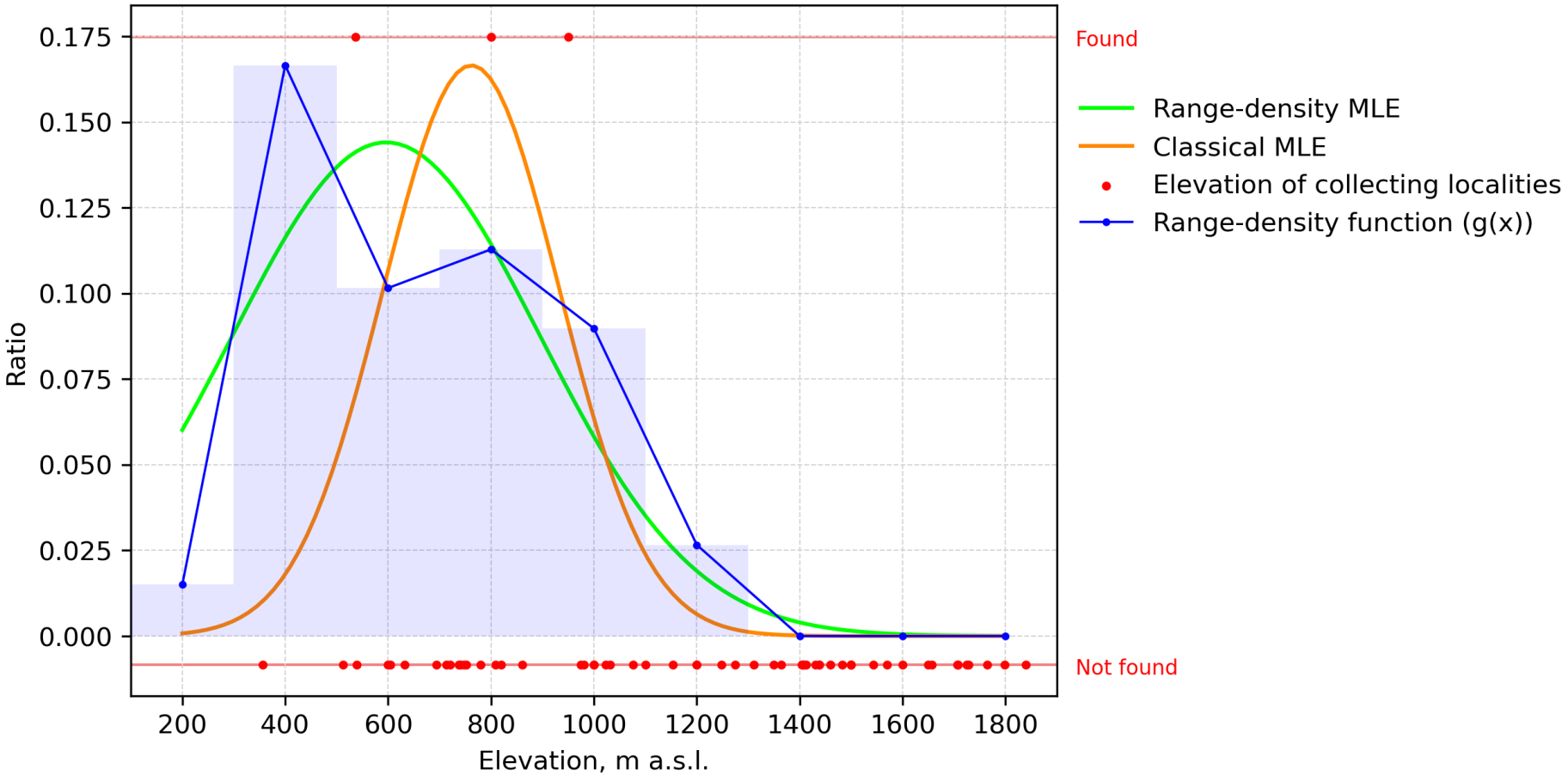


Figure 3. The ratio of the number of occurrences of Aneura pinguis (L.) Dumort to the number of locations where the research was conducted

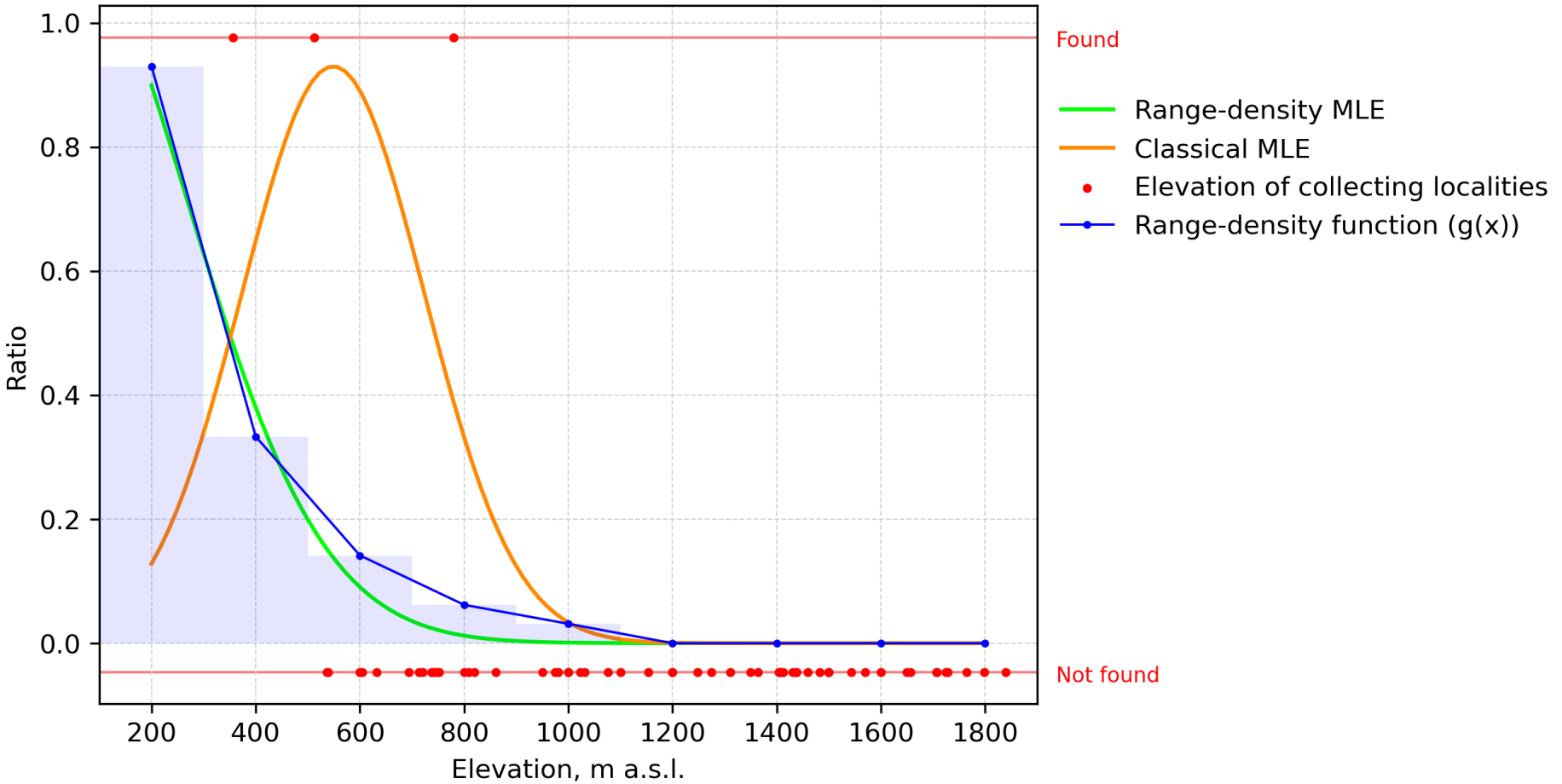


Figure 4. The ratio of the number of occurrences of Asterella leptophylla (Mont.) Grolle to the number of locations where the research was conducted

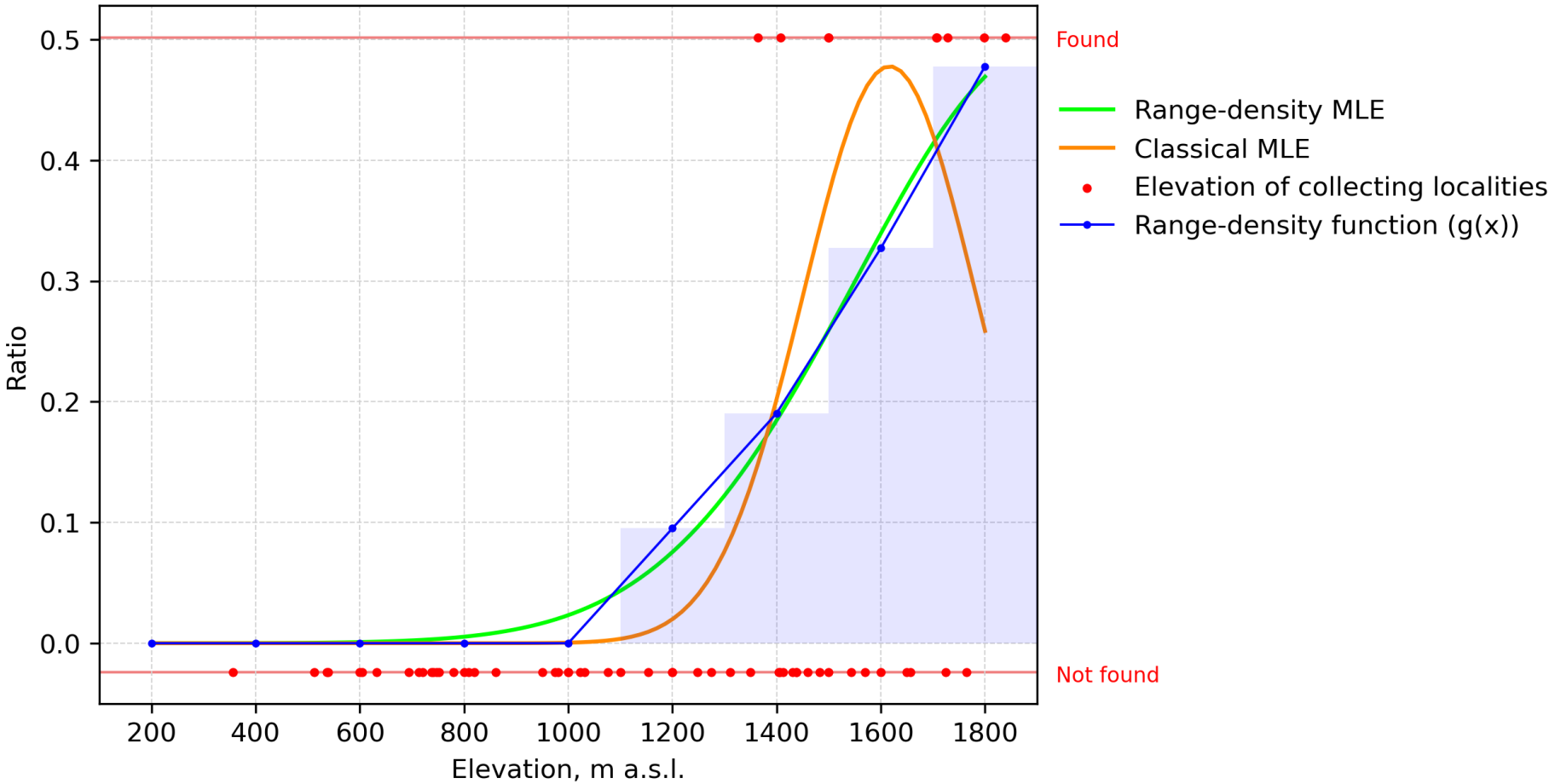


Figure 5. The ratio of the number of occurrences of Barbilophozia barbata (Schmidel ex Schreb.) Loeske to the number of locations where the research was conducted

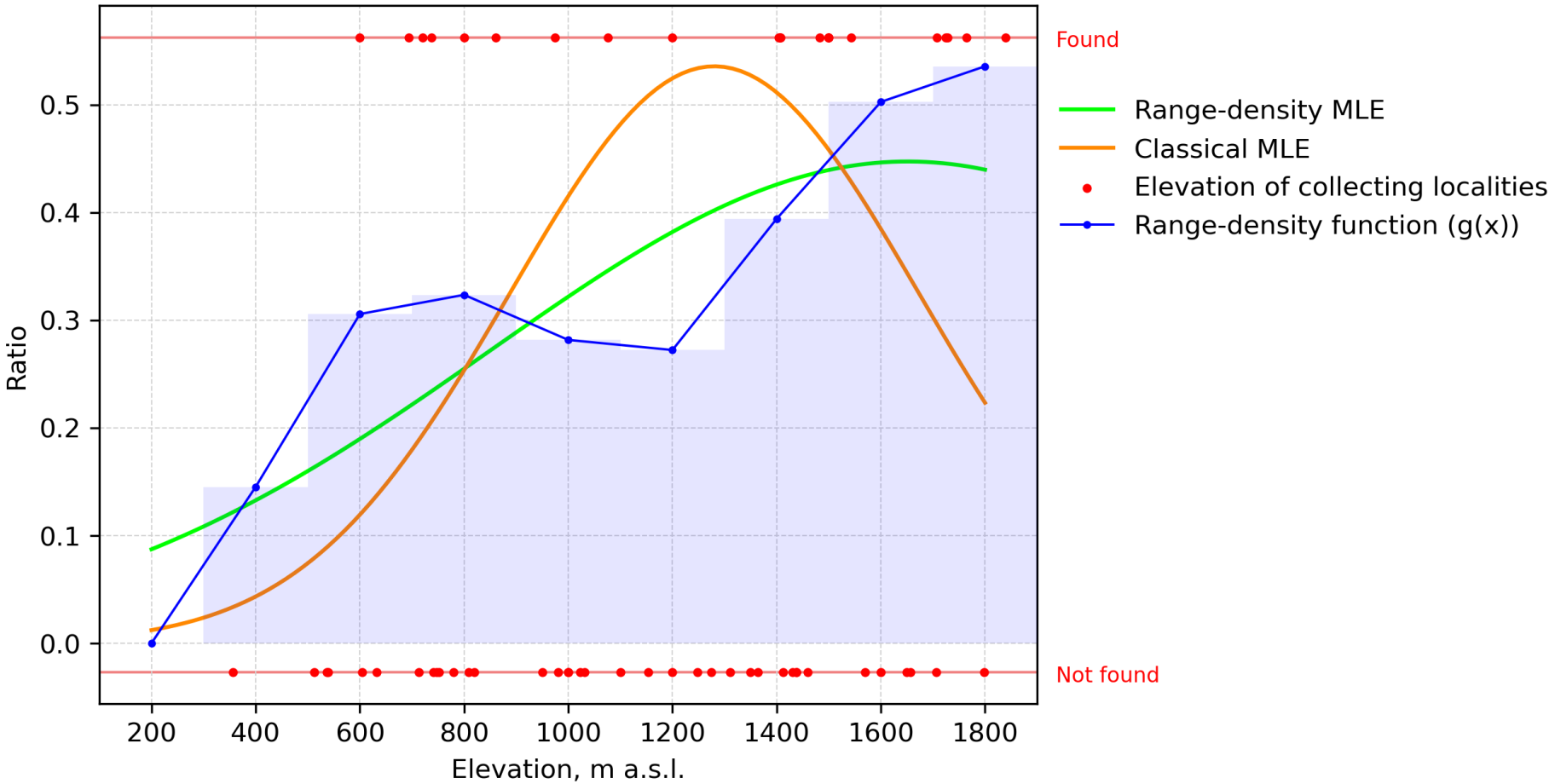


Figure 6. The ratio of the number of occurrences of Bazzania denudata (Lindenb. et Gottsche) Trevis to the number of locations where the research was conducted

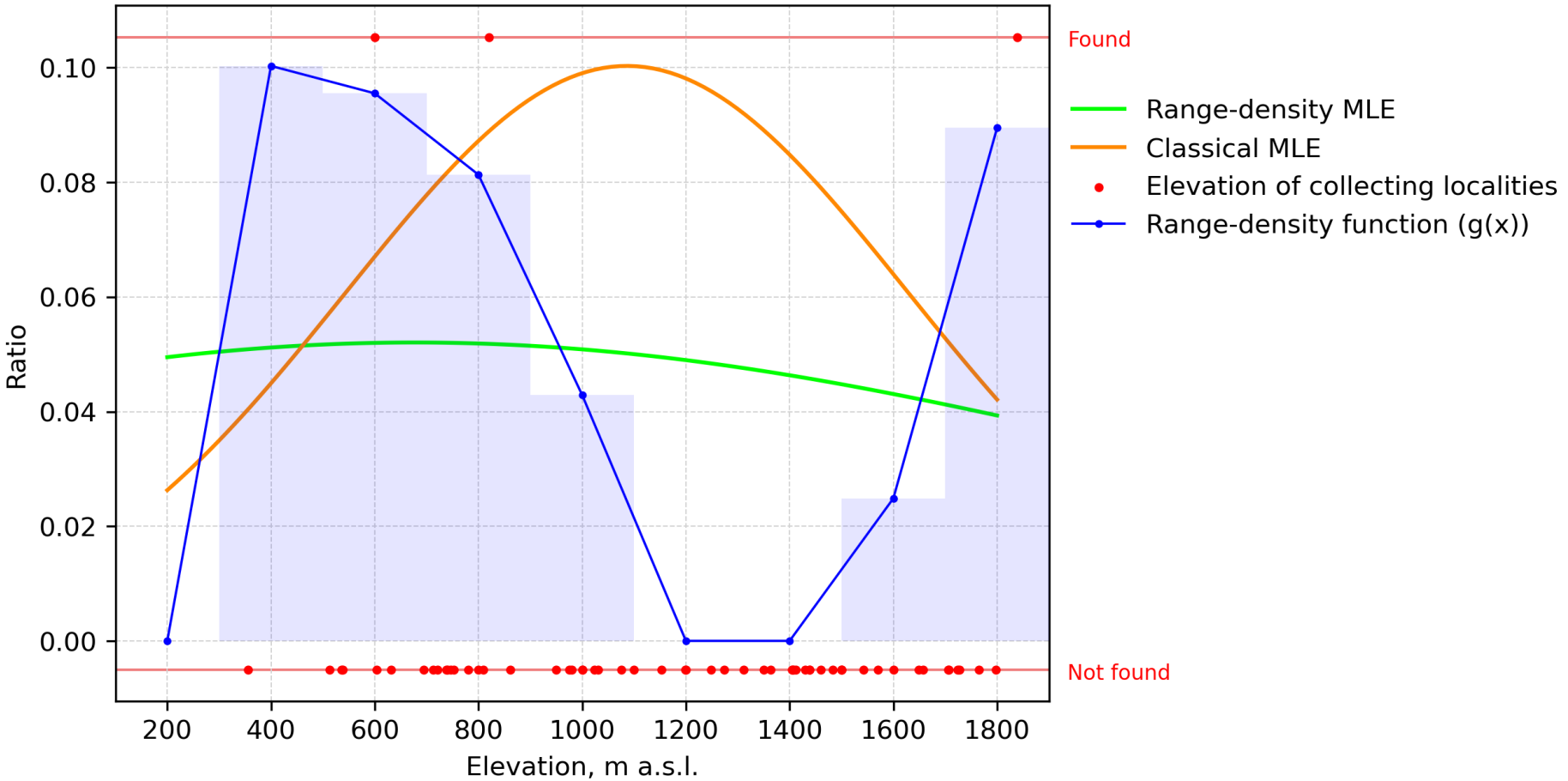


Figure 7. The ratio of the number of occurrences of Bazzania manczurica Bakalin to the number of locations where the research was conducted

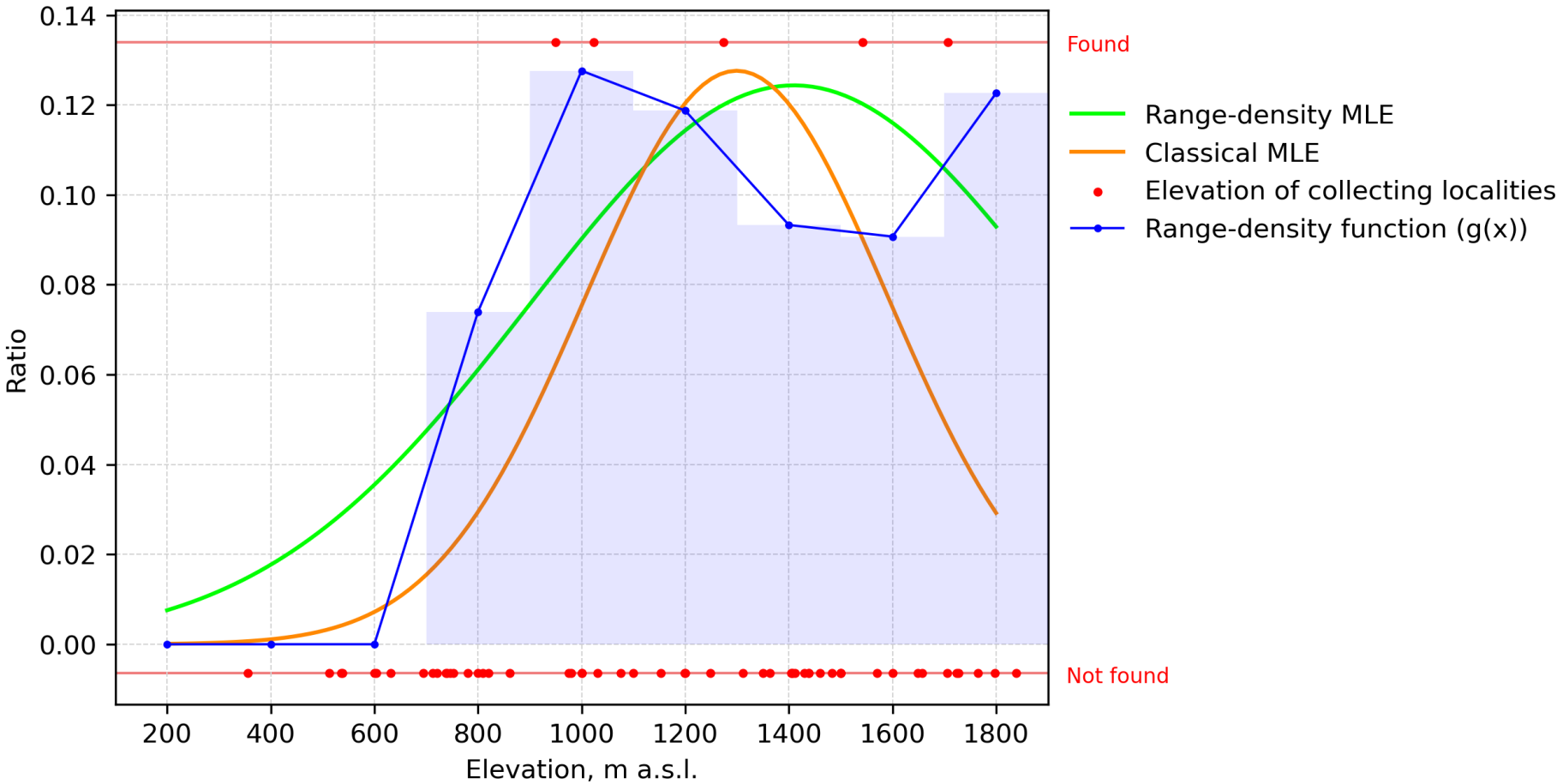


Figure 8. The ratio of the number of occurrences of Bazzania parabidentula Bakalin to the number of locations where the research was conducted

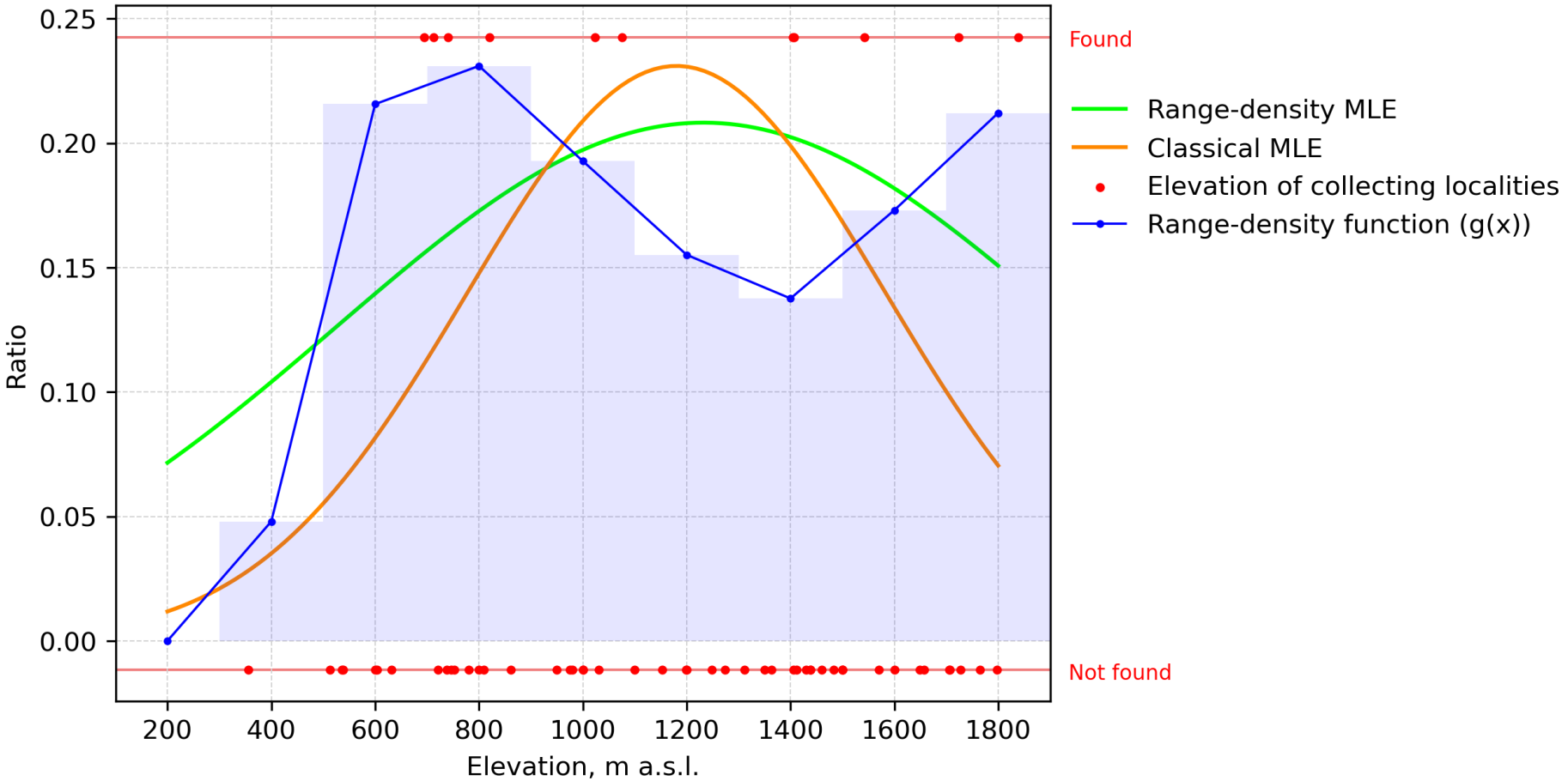


Figure 9. The ratio of the number of occurrences of Bazzania tricrenata (Wahlenb.) Lindb to the number of locations where the research was conducted

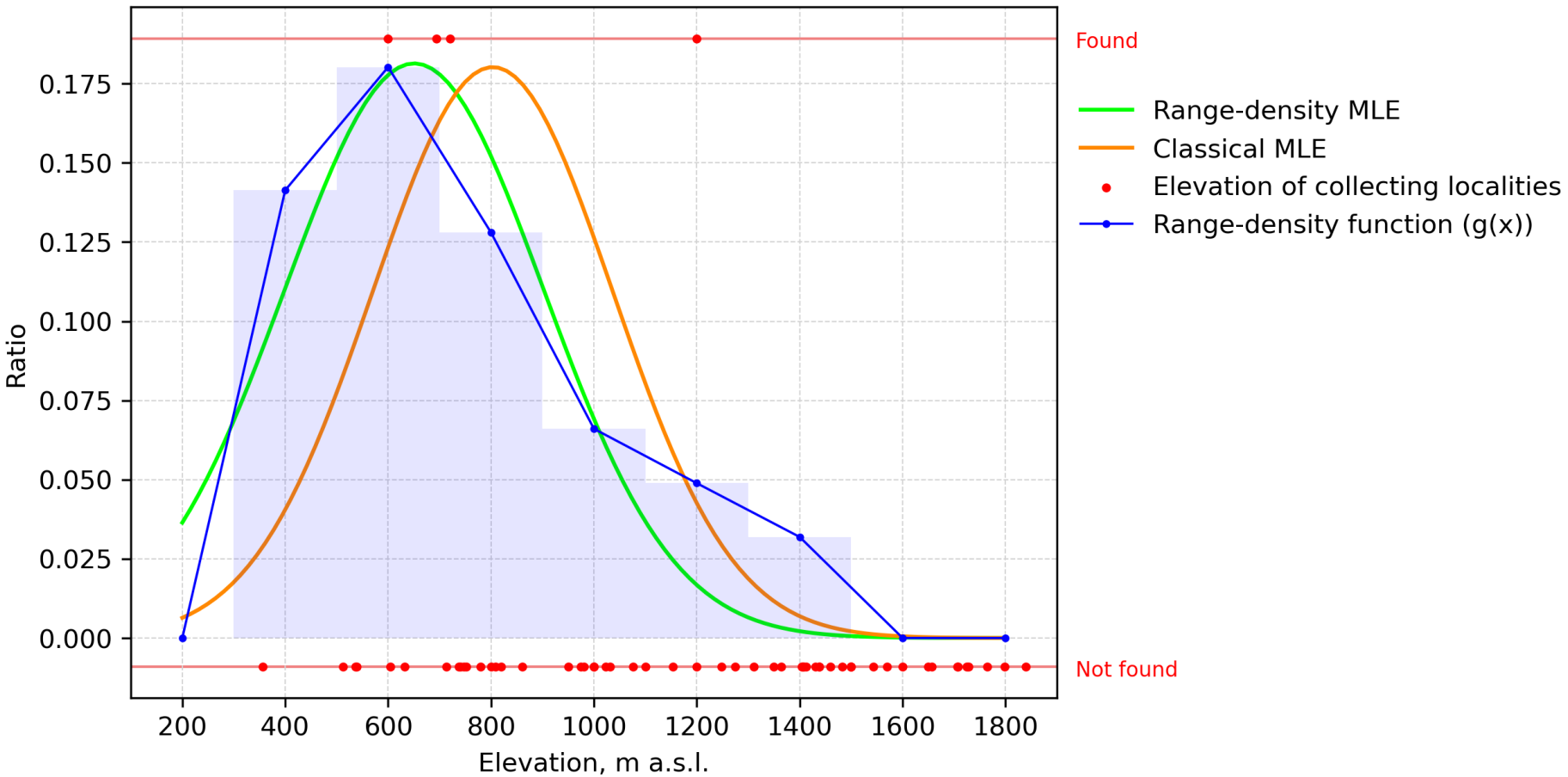


Figure 10. The ratio of the number of occurrences of Bazzania trilobata (L.) Gray to the number of locations where the research was conducted

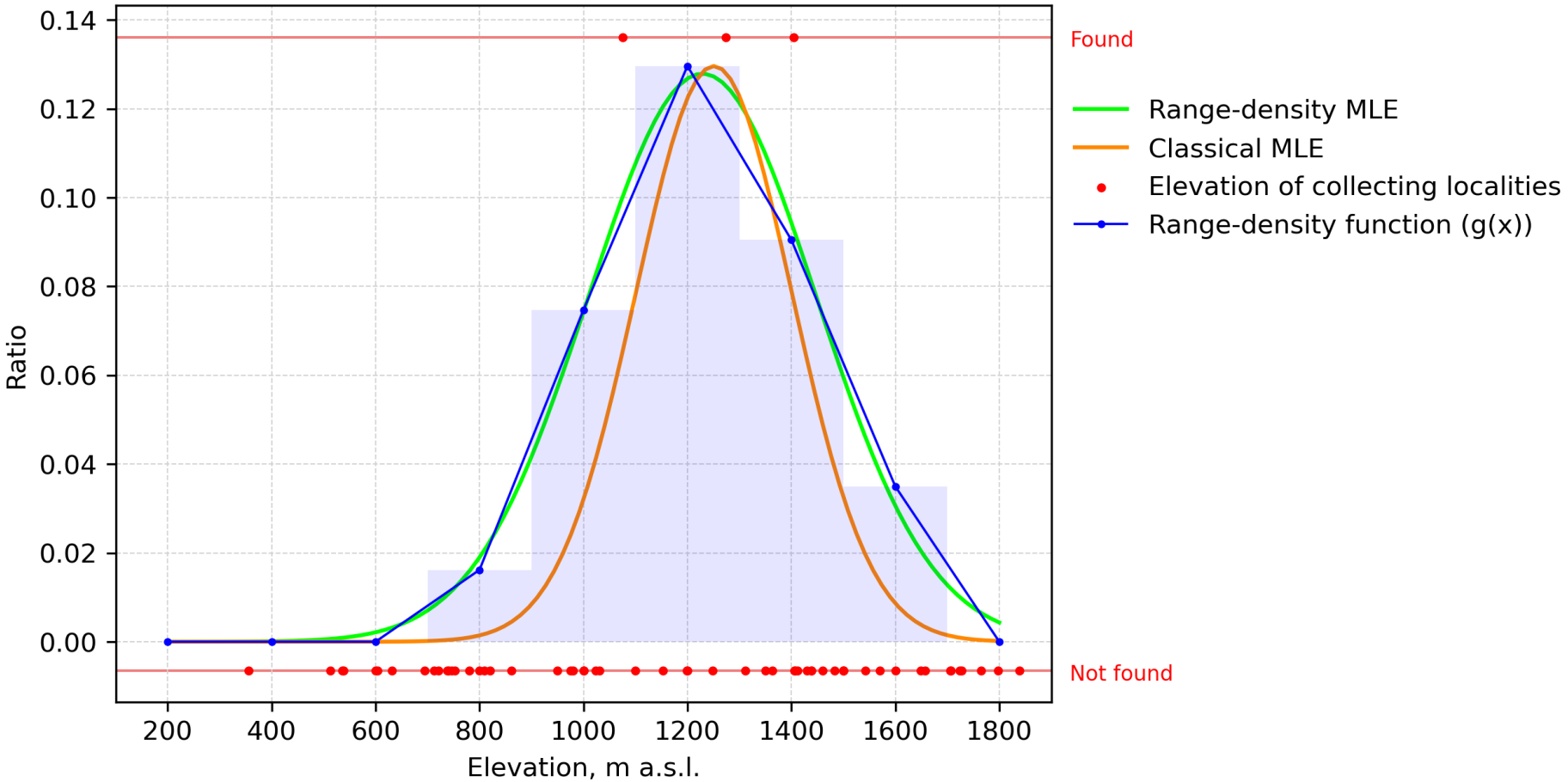


Figure 11. The ratio of the number of occurrences of Blepharostoma minor Horik to the number of locations where the research was conducted

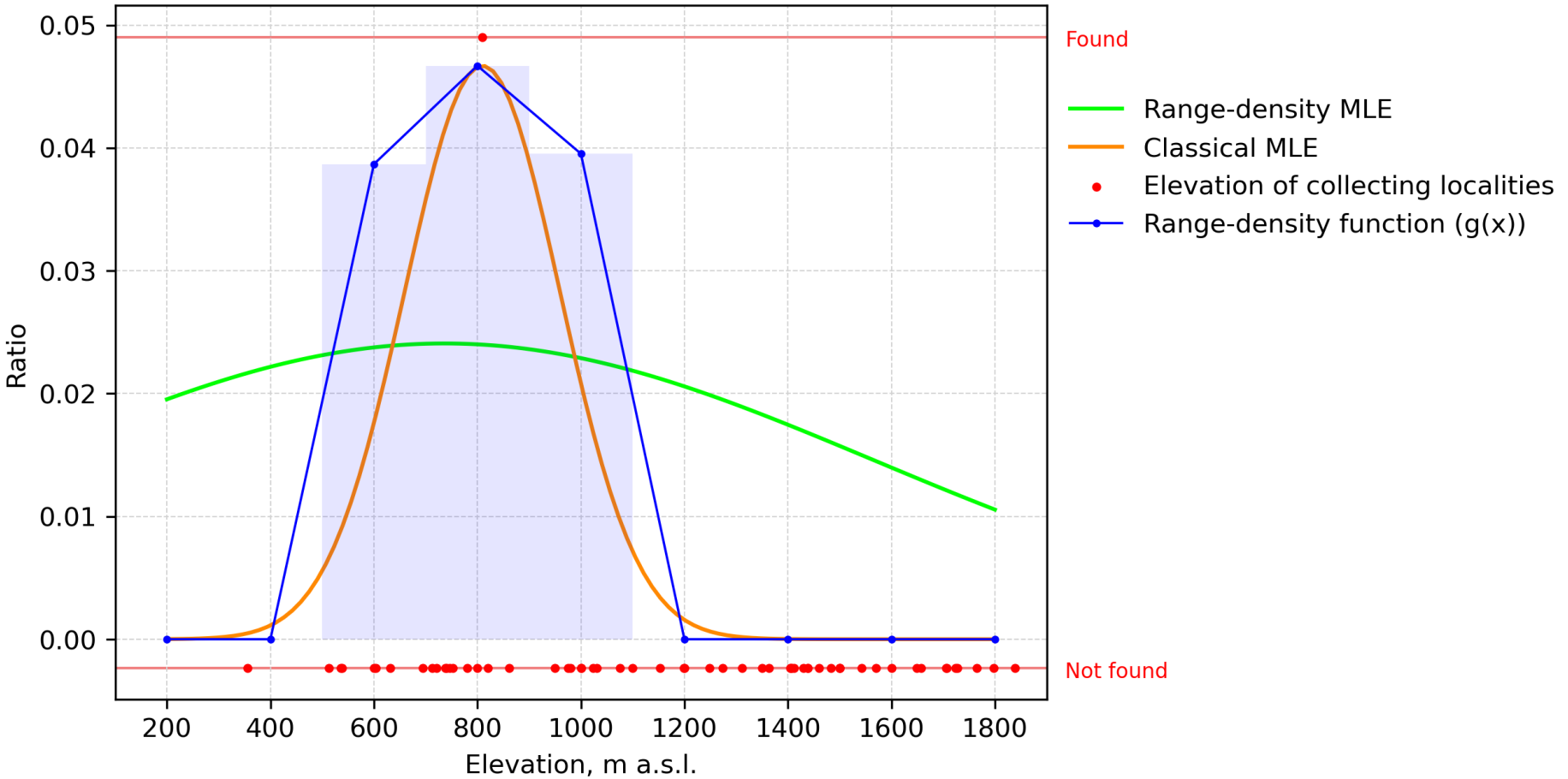


Figure 12. The ratio of the number of occurrences of Blepharostoma neglectum Vilnet et Bakalin to the number of locations where the research was conducted

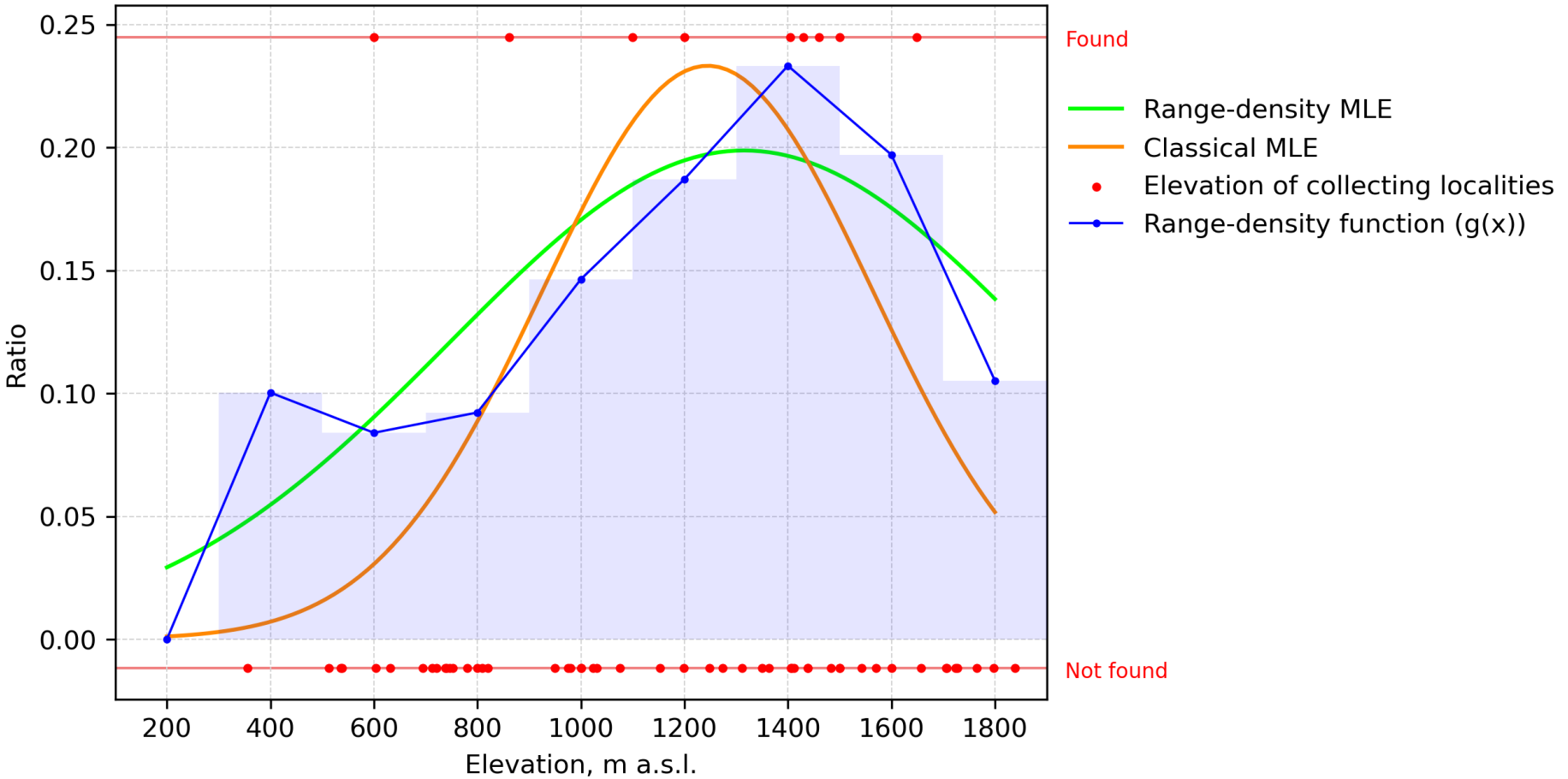


Figure 13. The ratio of the number of occurrences of Blepharostoma trichophyllum (L.) Dumort. var. trichophyllum to the number of locations where the research was conducted

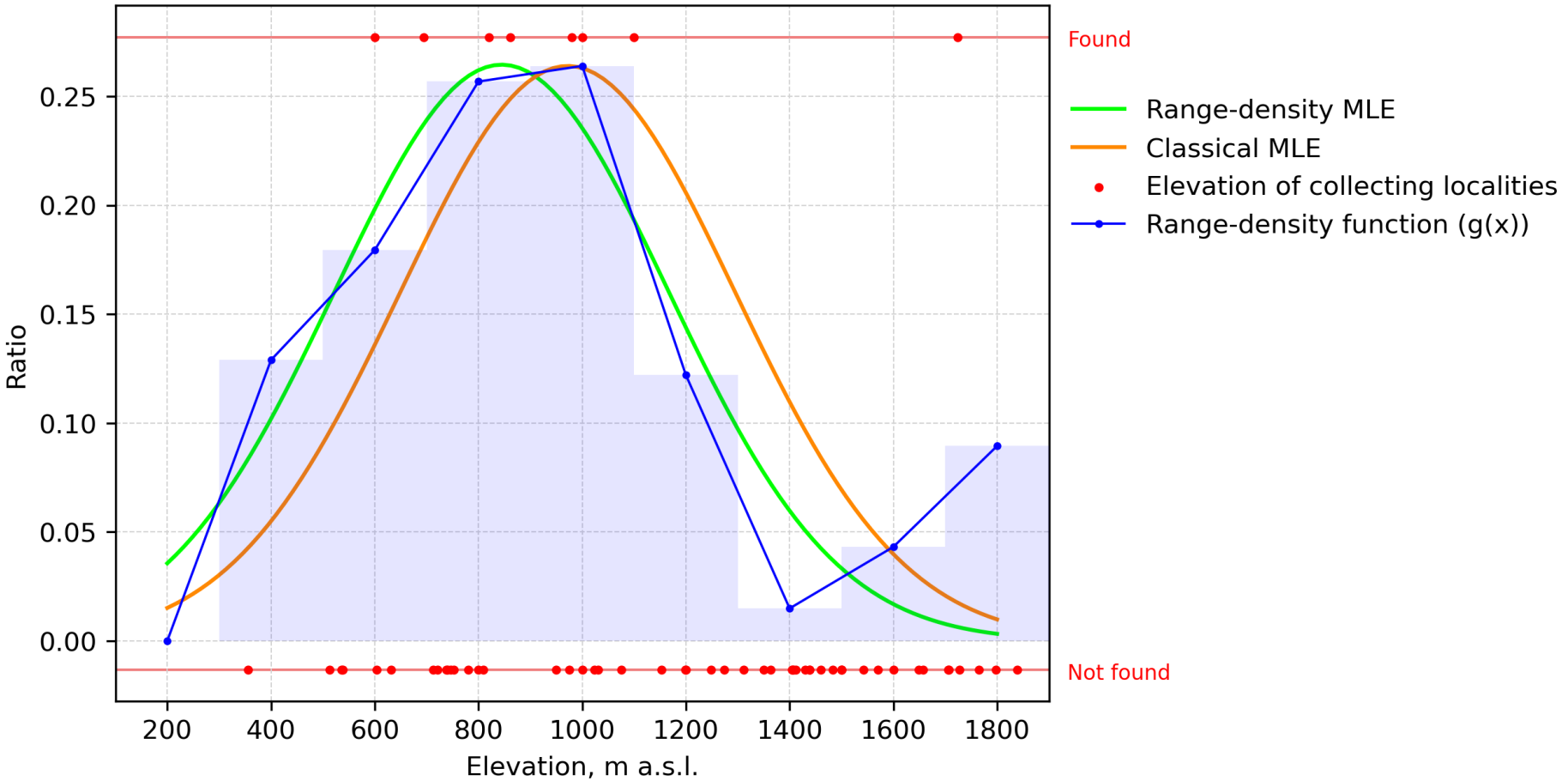


Figure 14. The ratio of the number of occurrences of Calycularia laxa Lindb. et Arnell to the number of locations where the research was conducted

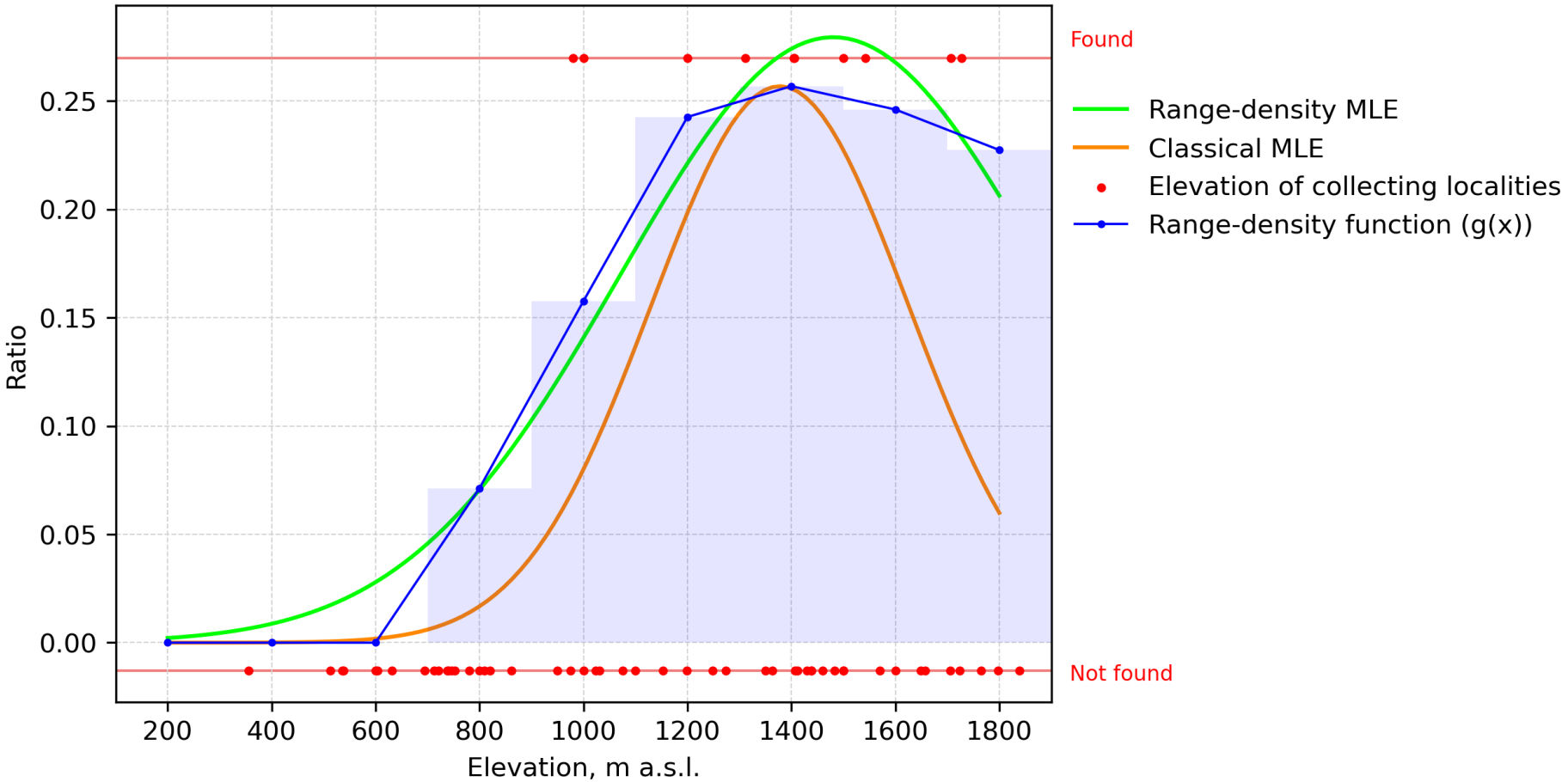


Figure 15. The ratio of the number of occurrences of Calypogeia integristipula Steph to the number of locations where the research was conducted

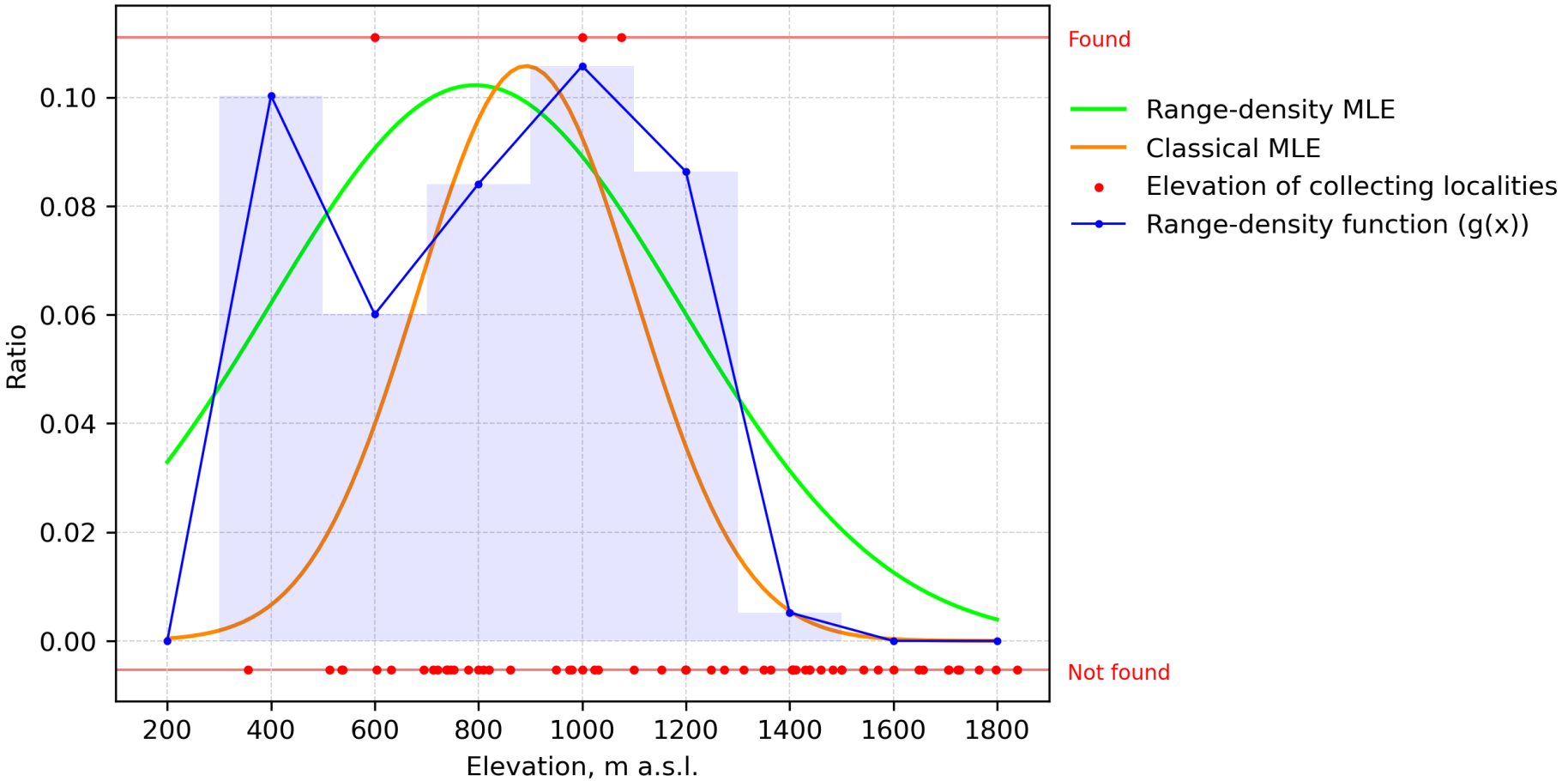


Figure 16. The ratio of the number of occurrences of Calypogeia muelleriana (Schiffn.) Müll.Frib to the number of locations where the research was conducted

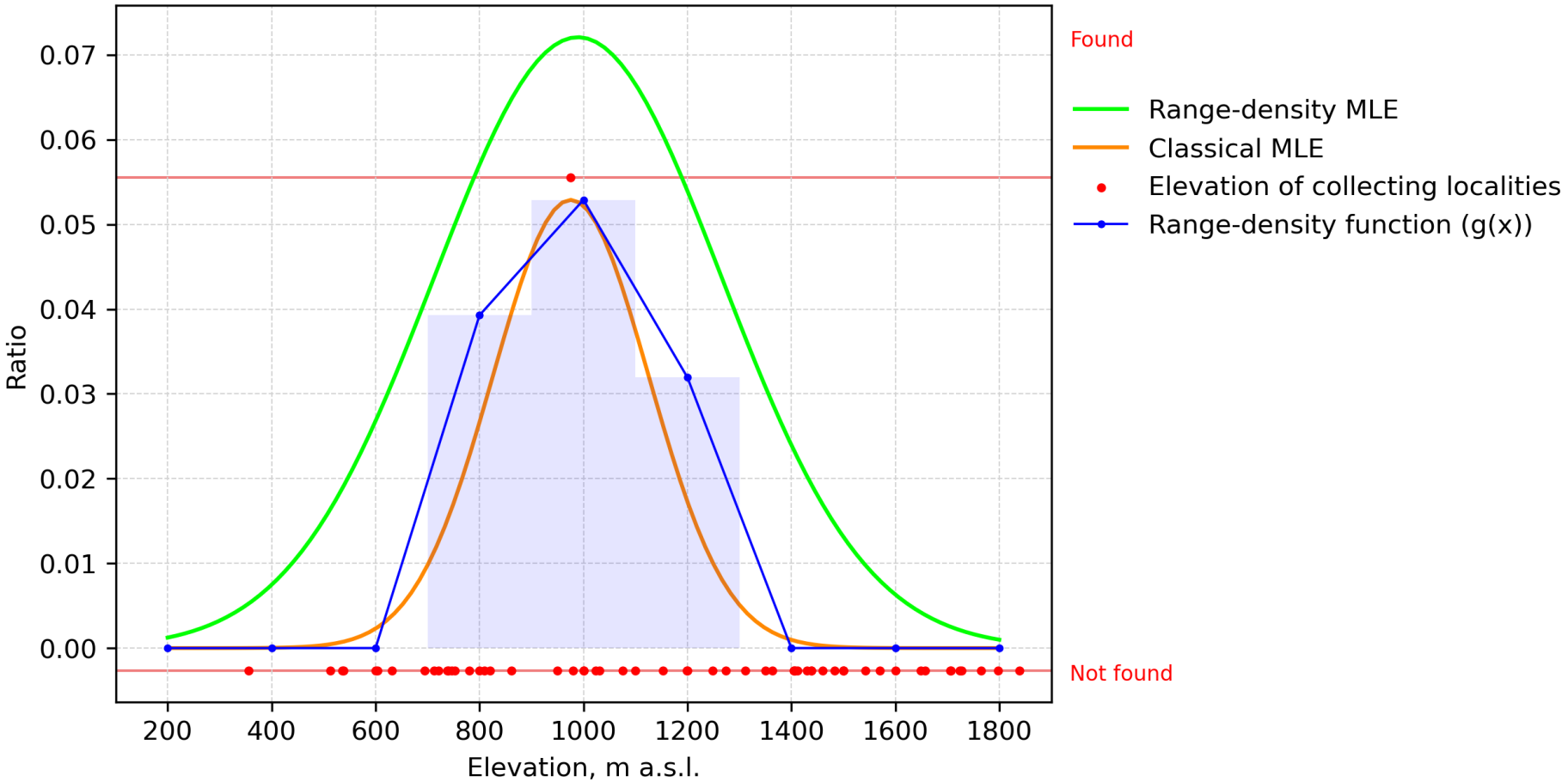


Figure 17. The ratio of the number of occurrences of Calypogeia orientalis Buczk. & Bakalin to the number of locations where the research was conducted

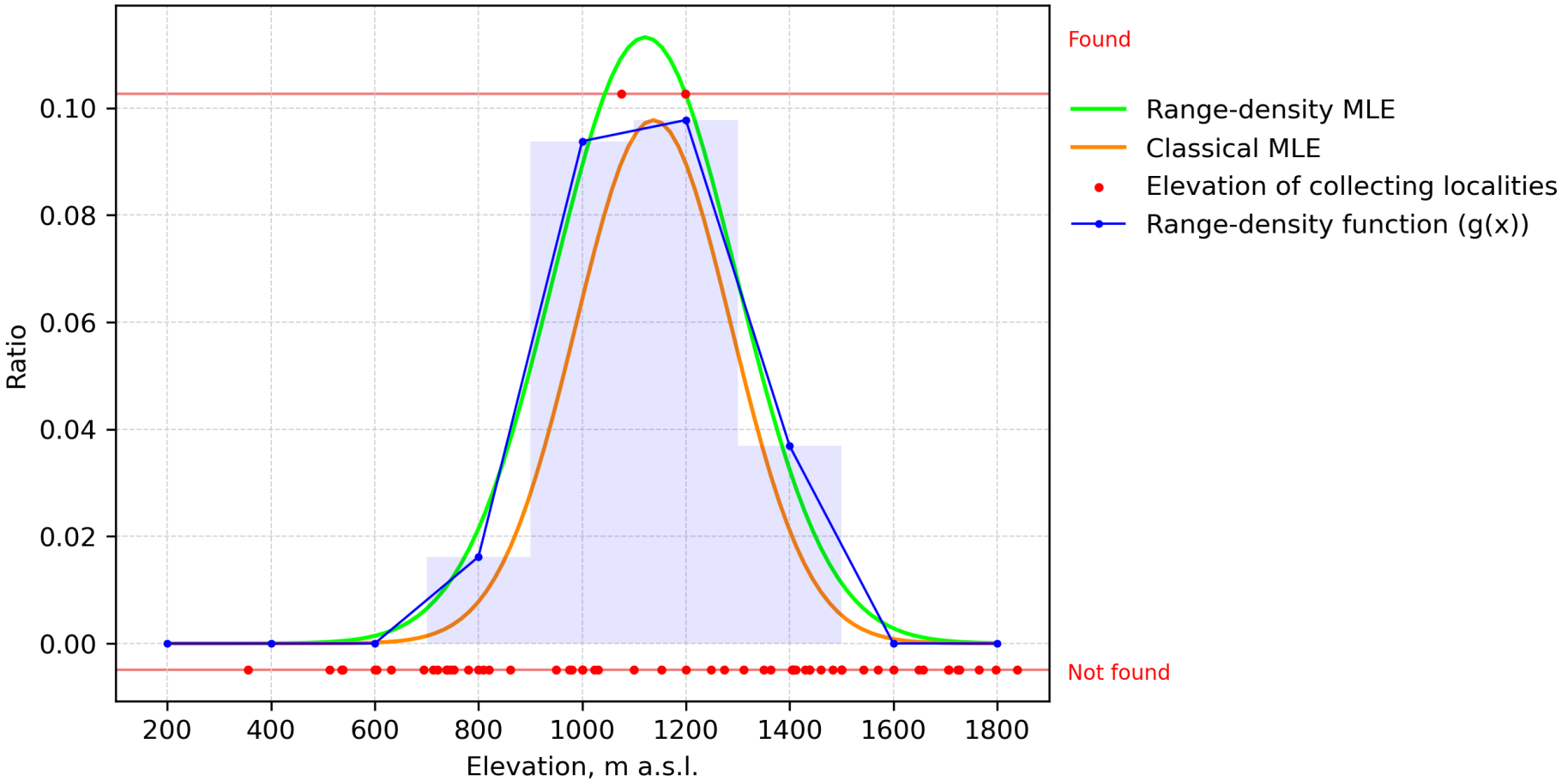


Figure 18. The ratio of the number of occurrences of Calypogeia suecica (Arnell et J.Perss.) Müll.Frib to the number of locations where the research was conducted

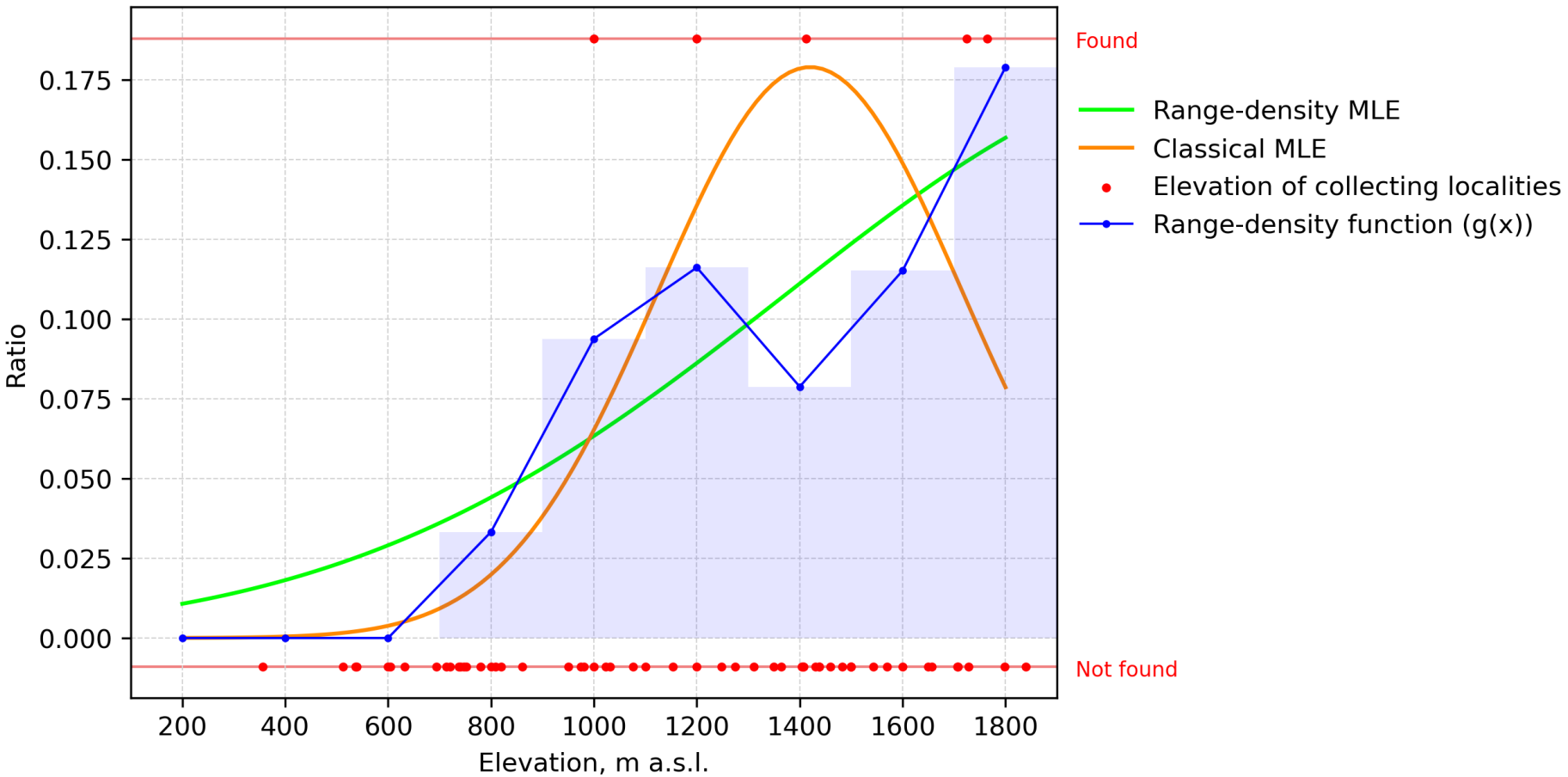


Figure 19. The ratio of the number of occurrences of Cephalozia bicuspidata (L.) Dumort to the number of locations where the research was conducted

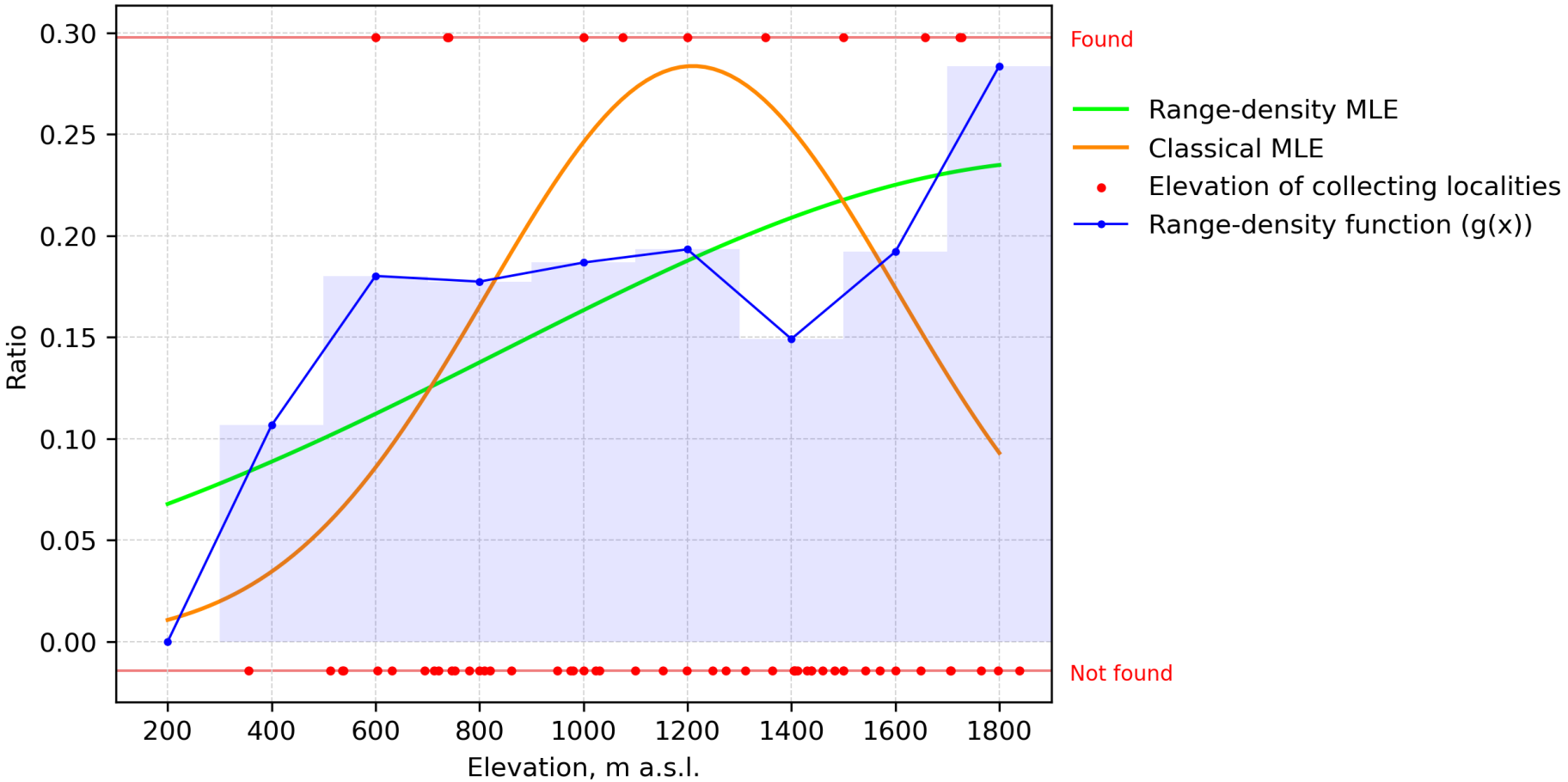


Figure 20. The ratio of the number of occurrences of Cephalozia otaruensis Steph to the number of locations where the research was conducted

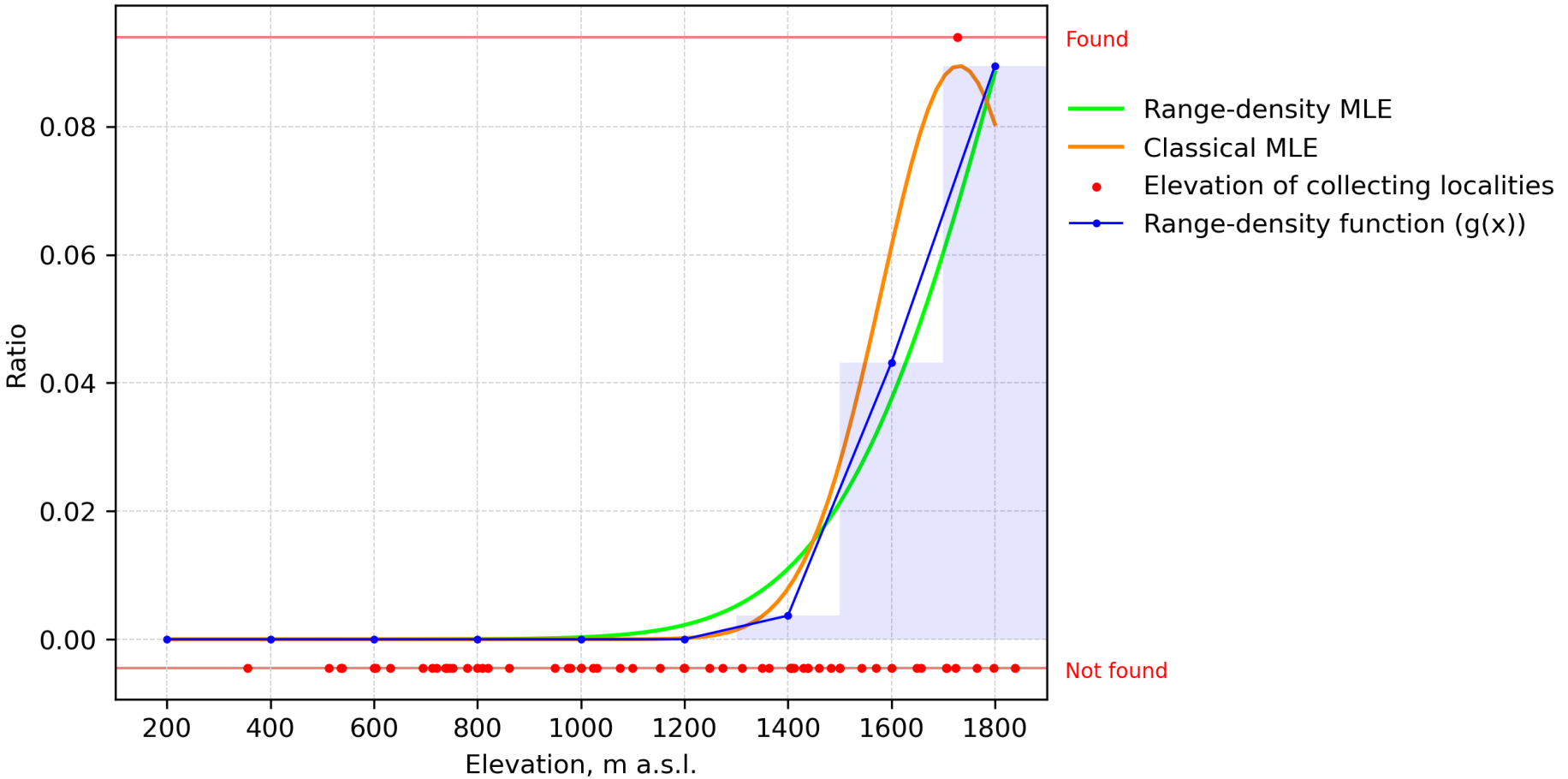


Figure 21. The ratio of the number of occurrences of Cephaloziella divaricata (Sm.) Schiffn to the number of locations where the research was conducted

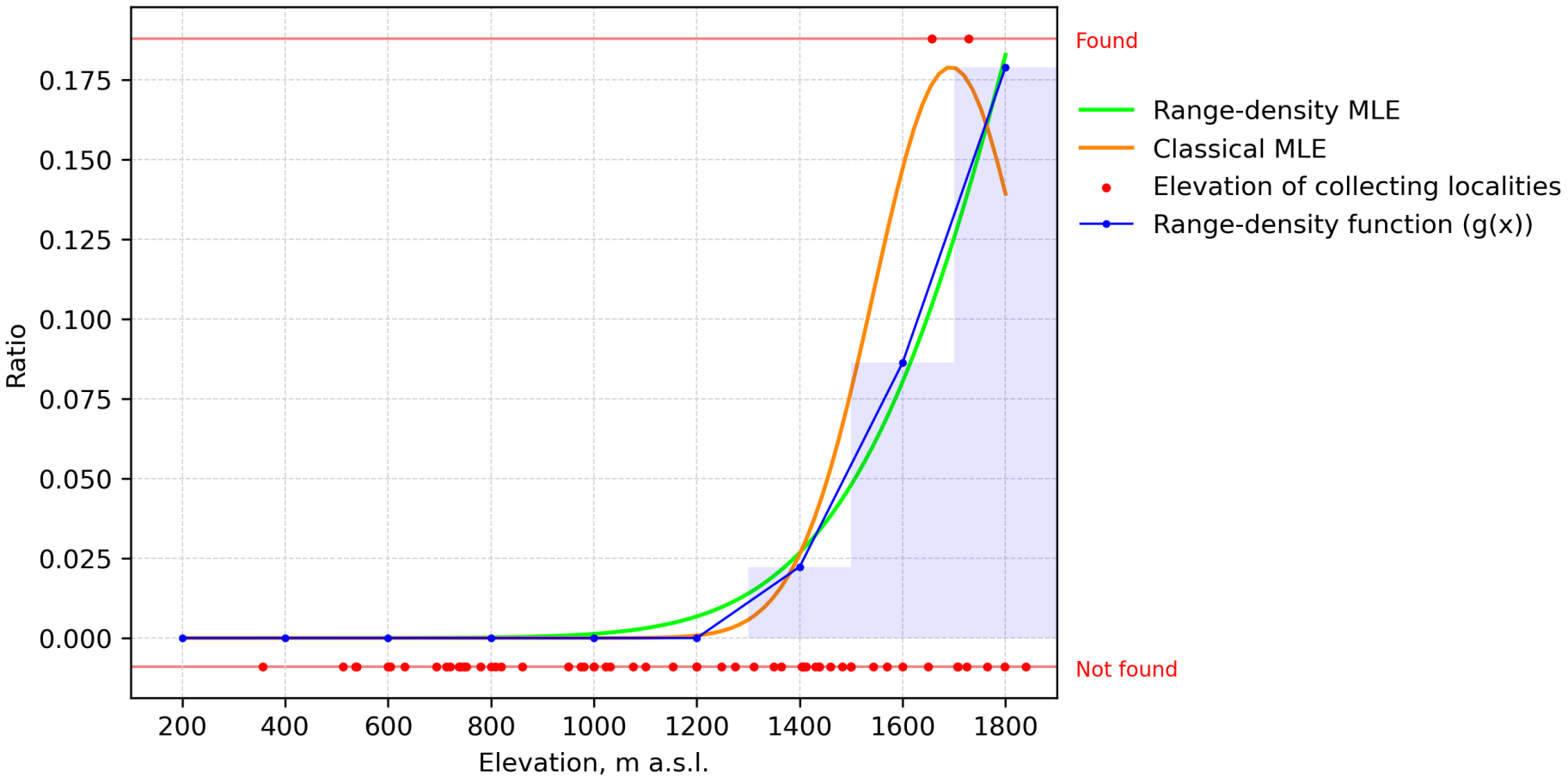


Figure 22. The ratio of the number of occurrences of Cephaloziella rubella (Nees) Warnst to the number of locations where the research was conducted

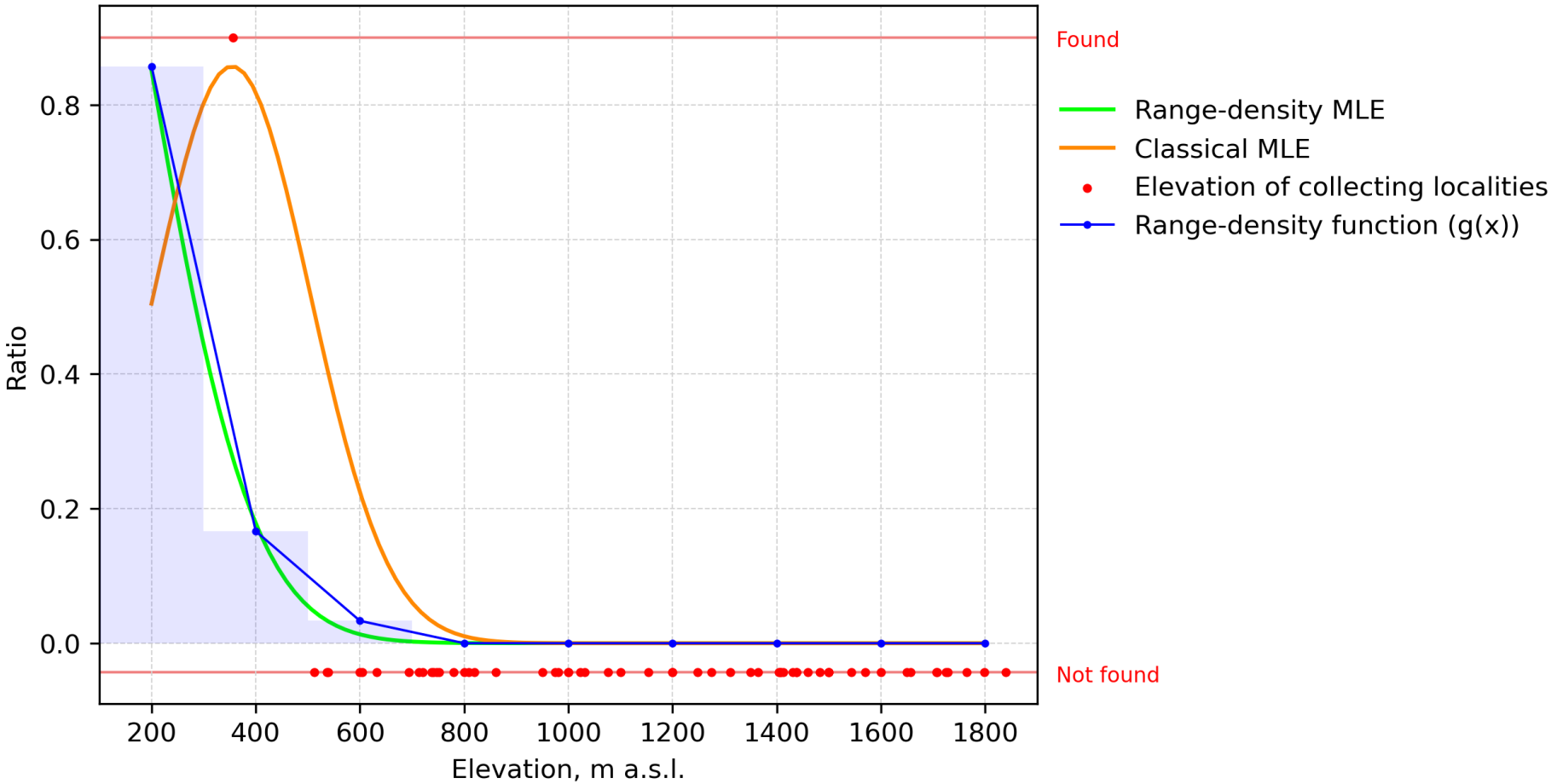


Figure 23. The ratio of the number of occurrences of Cephaloziella spinicaulis Douin to the number of locations where the research was conducted

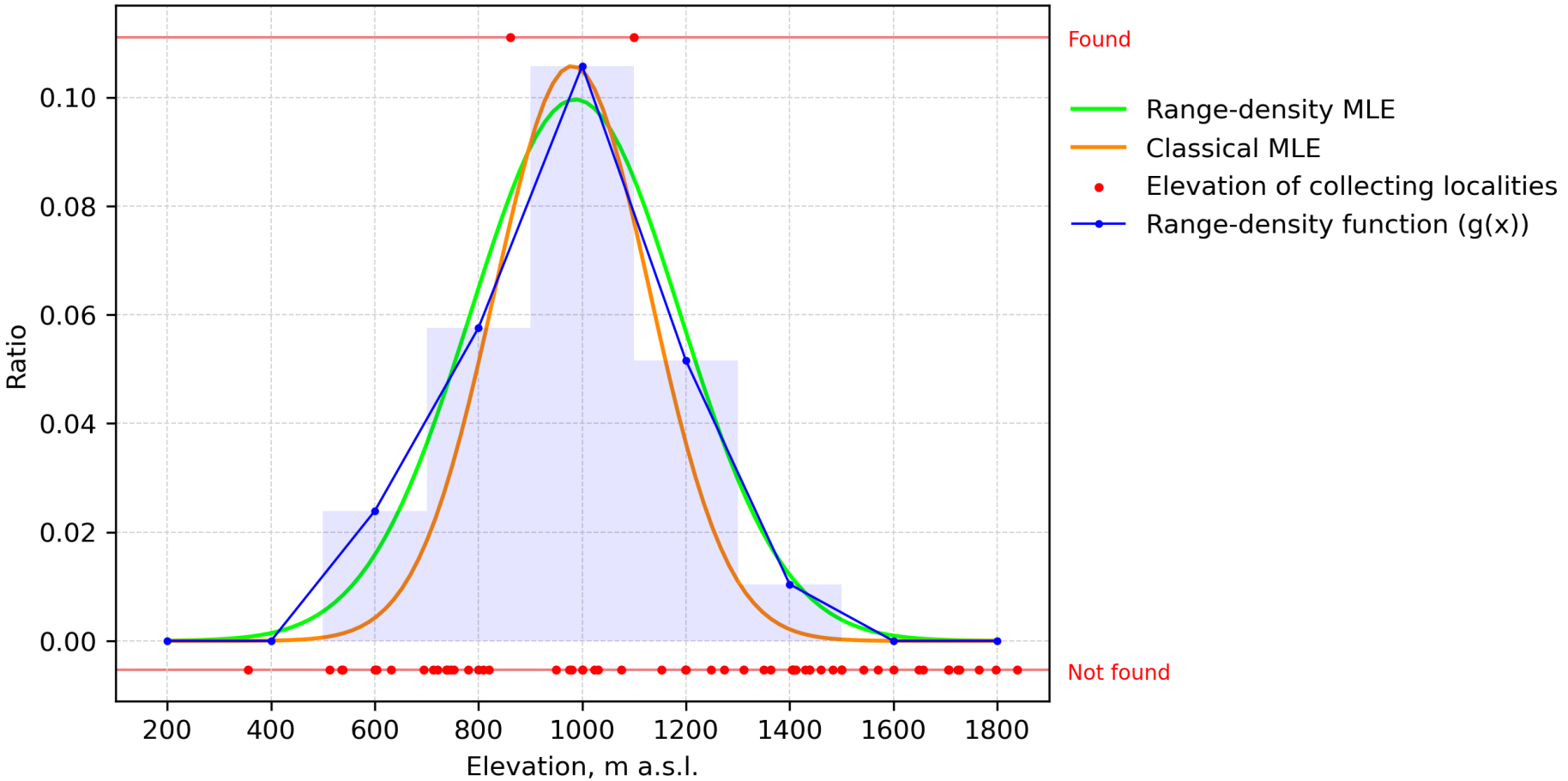


Figure 24. The ratio of the number of occurrences of Chiloscyphus fragilis (A. Roth) Schiffn to the number of locations where the research was conducted

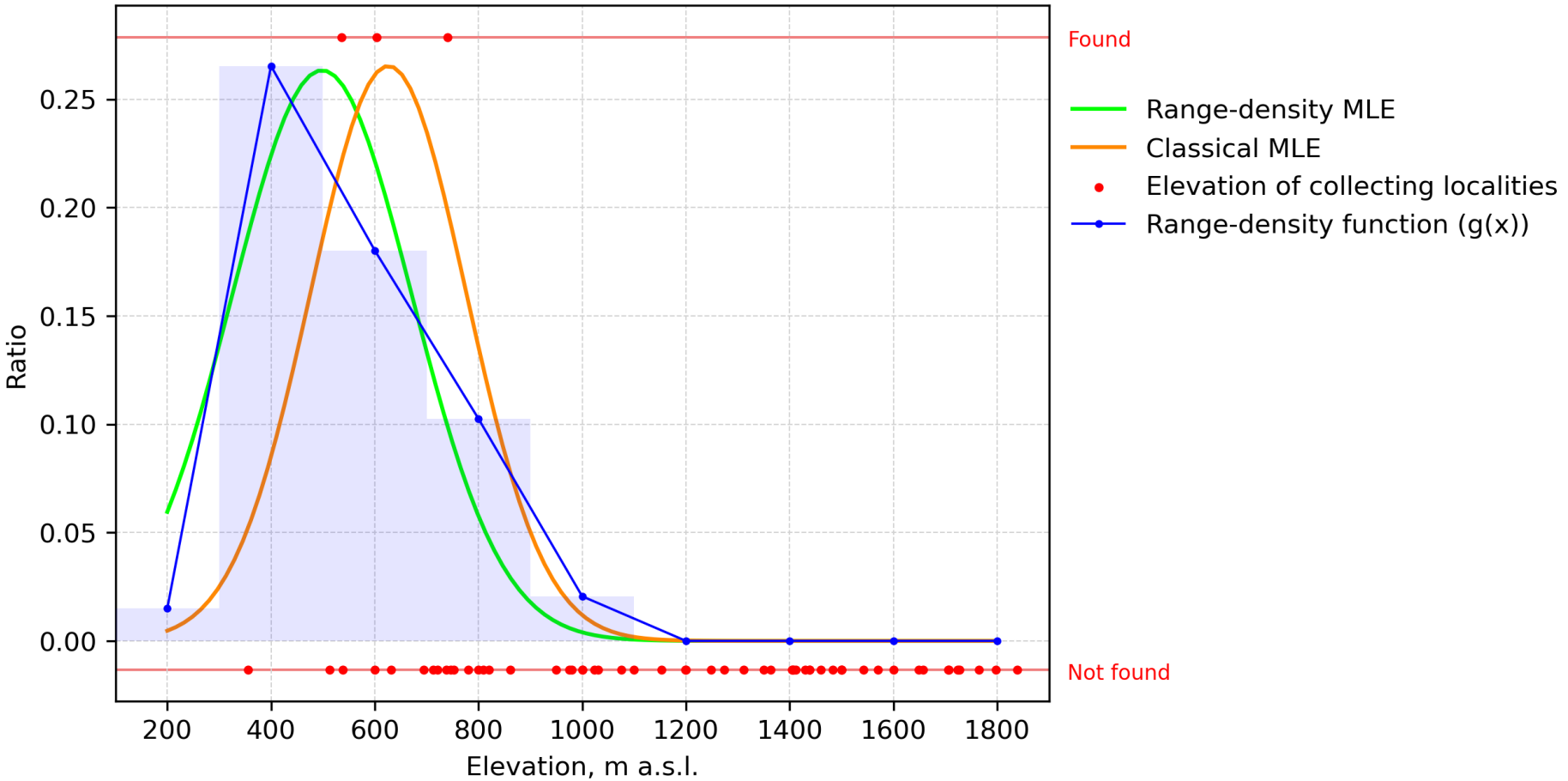


Figure 25. The ratio of the number of occurrences of Chiloscyphus polyanthos (L.) Corda var. polyanthos to the number of locations where the research was conducted

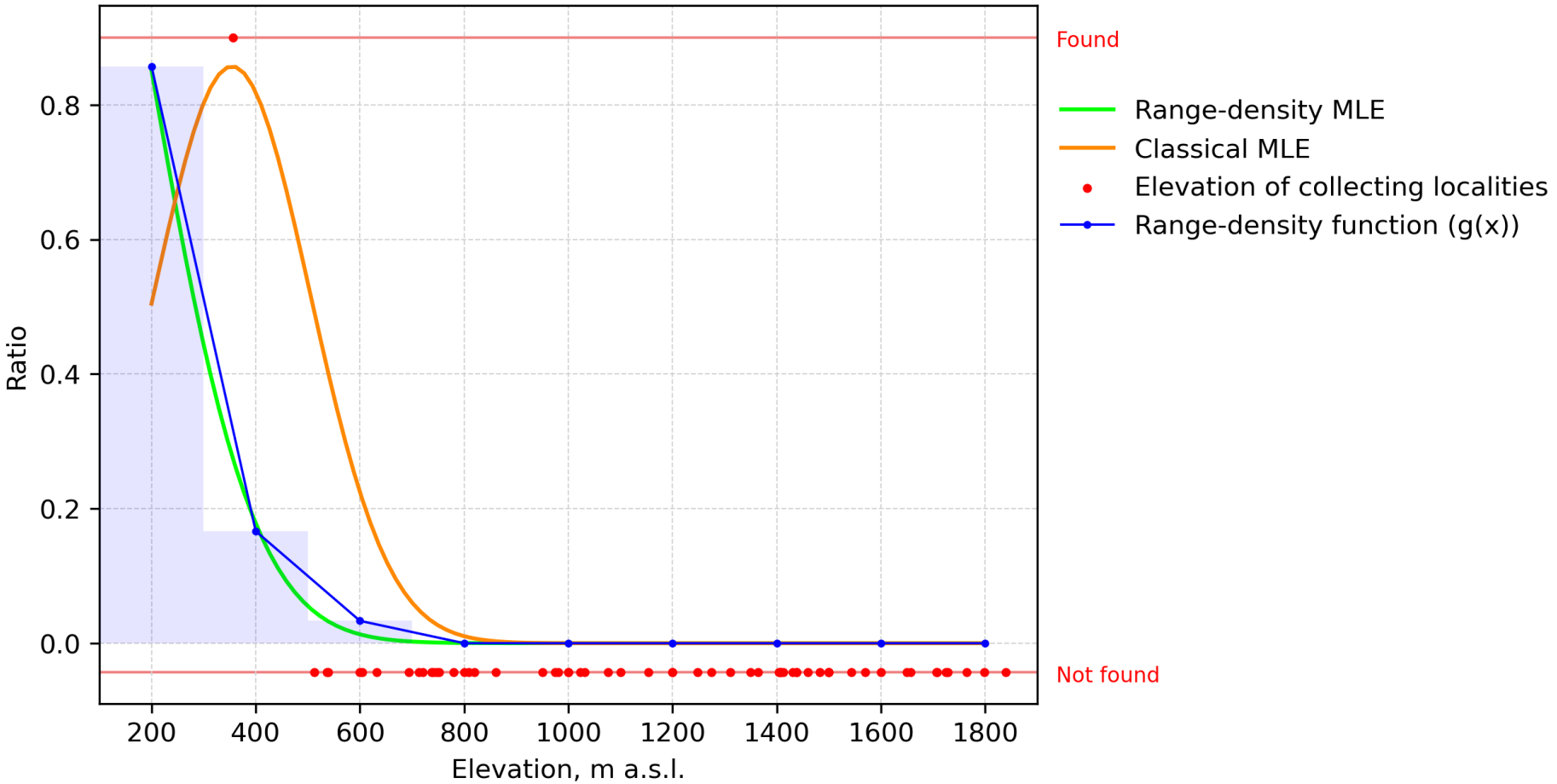


Figure 26. The ratio of the number of occurrences of Clevea nana (Shimizu et S. Hatt.) Borovich. et Bakalin to the number of locations where the research was conducted

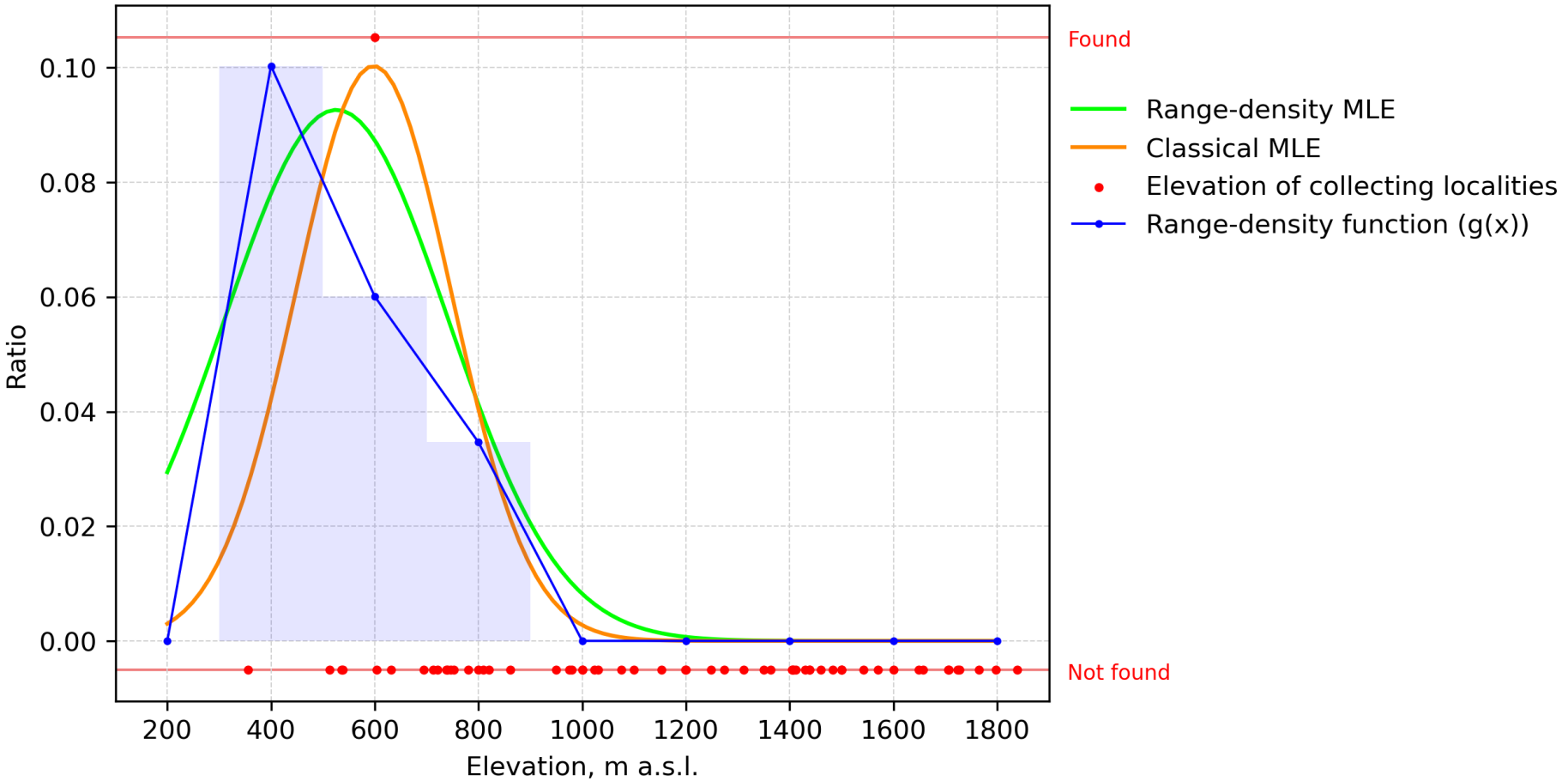


Figure 27. The ratio of the number of occurrences of Cololejeunea ornata A.Evans to the number of locations where the research was conducted

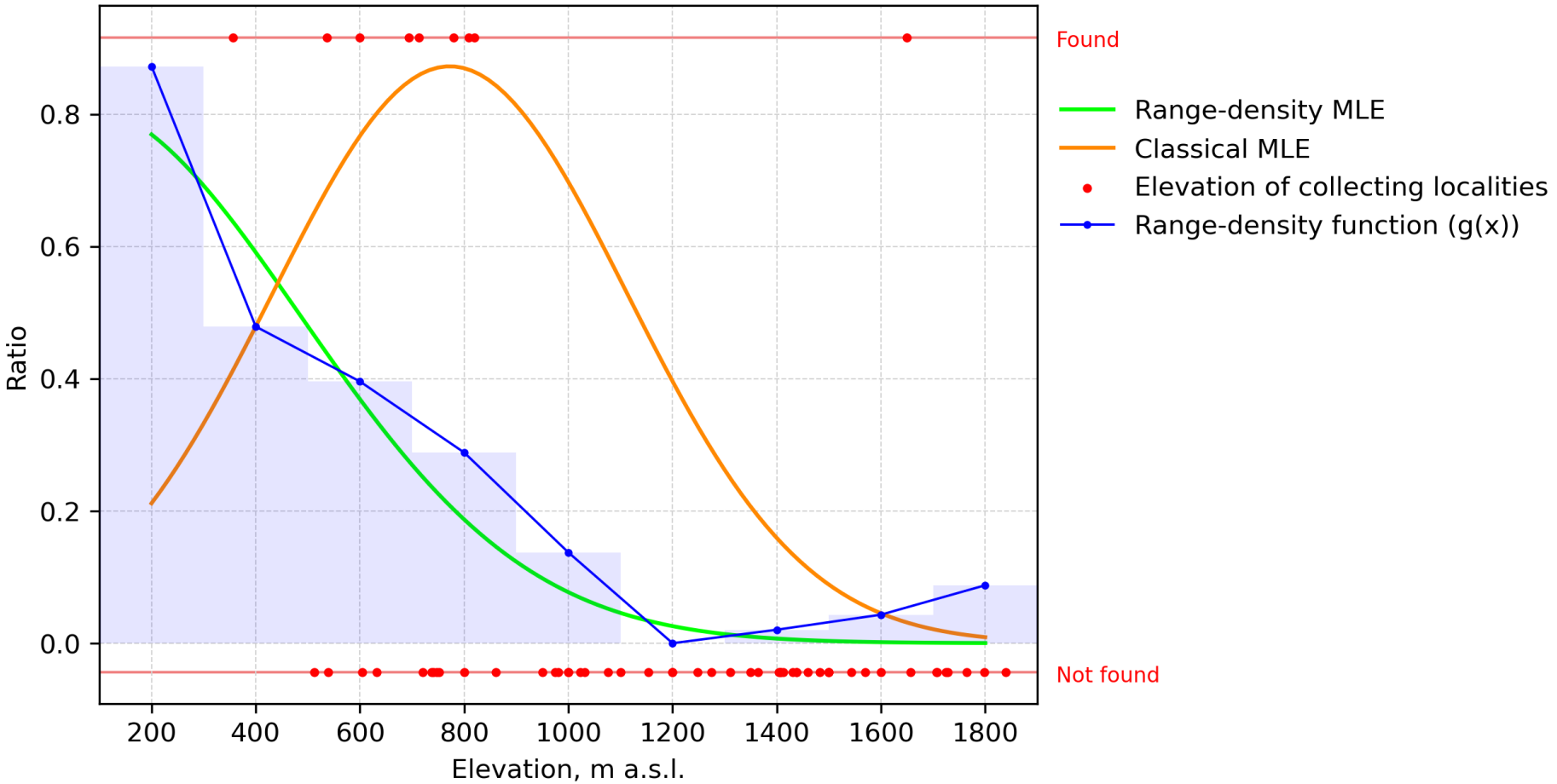


Figure 28. The ratio of the number of occurrences of Conocephalum salebrosum Szweyk., Buczk. et Odrzyk to the number of locations where the research was conducted

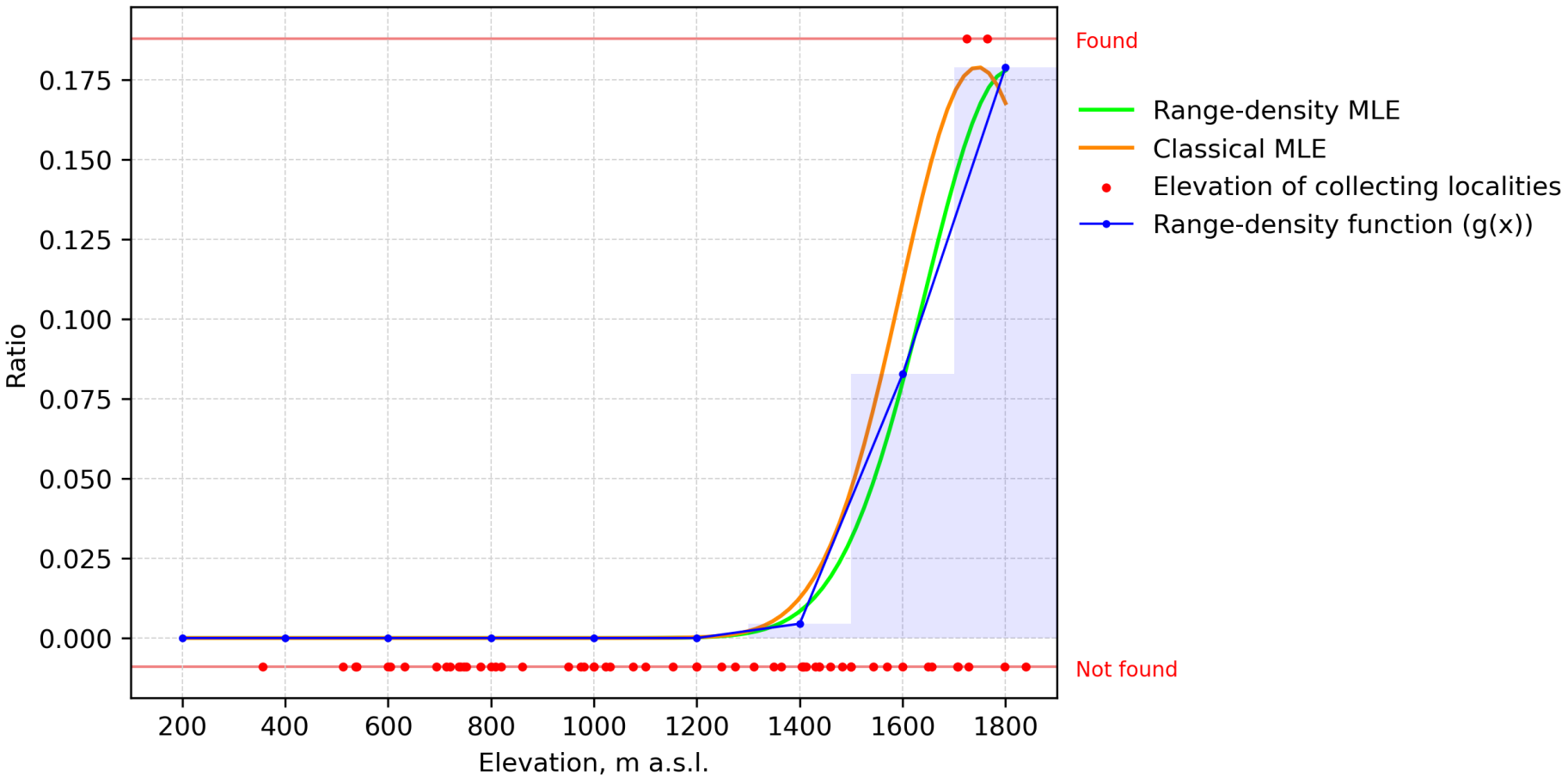


Figure 29. The ratio of the number of occurrences of Diplophyllum albicans (L.) Dumort to the number of locations where the research was conducted

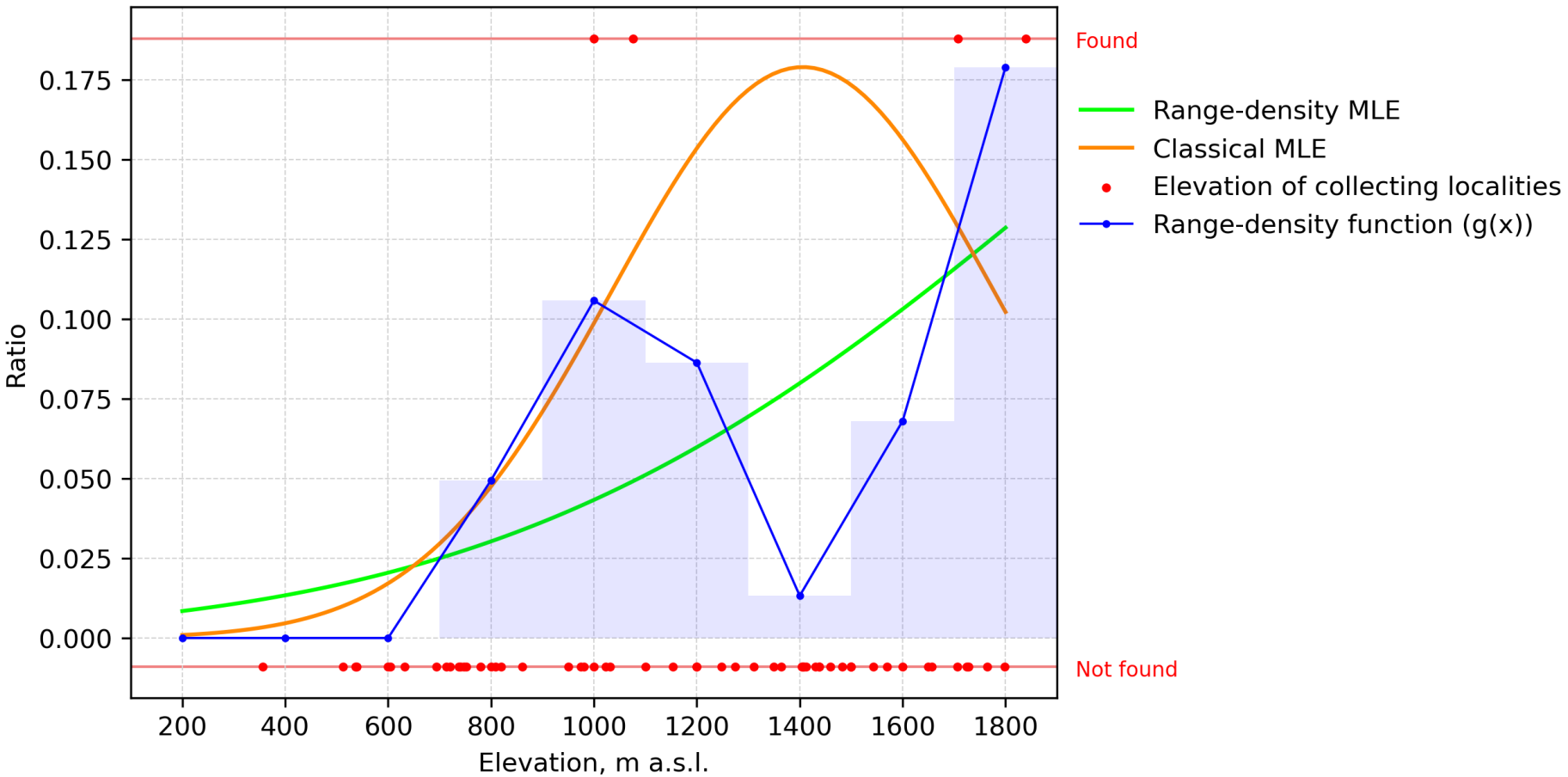


Figure 30. The ratio of the number of occurrences of Diplophyllum sibiricum Bakalin et Vilnet to the number of locations where the research was conducted

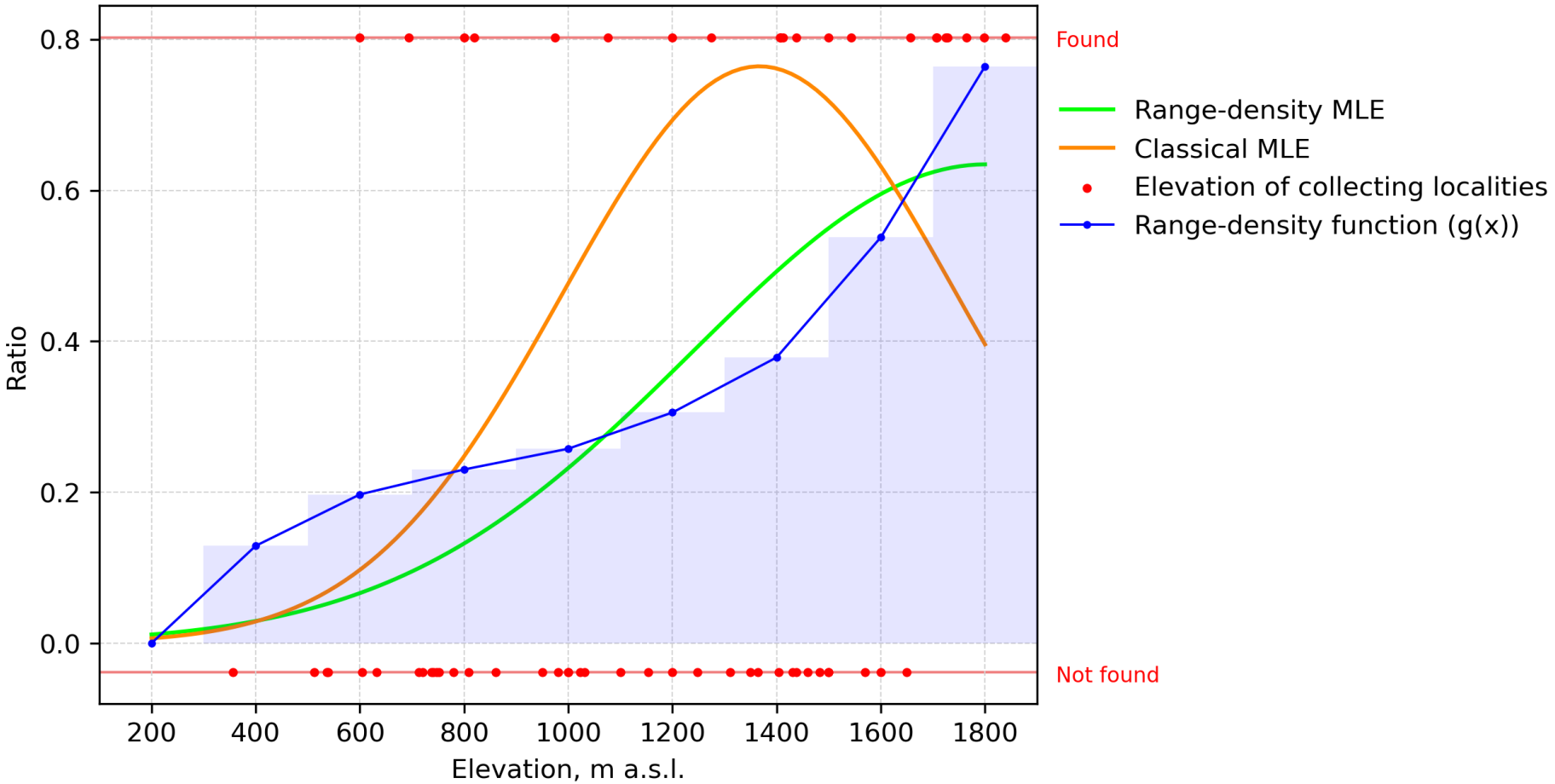


Figure 31. The ratio of the number of occurrences of Diplophyllum taxifolium (Wahlenb.) Dumort to the number of locations where the research was conducted

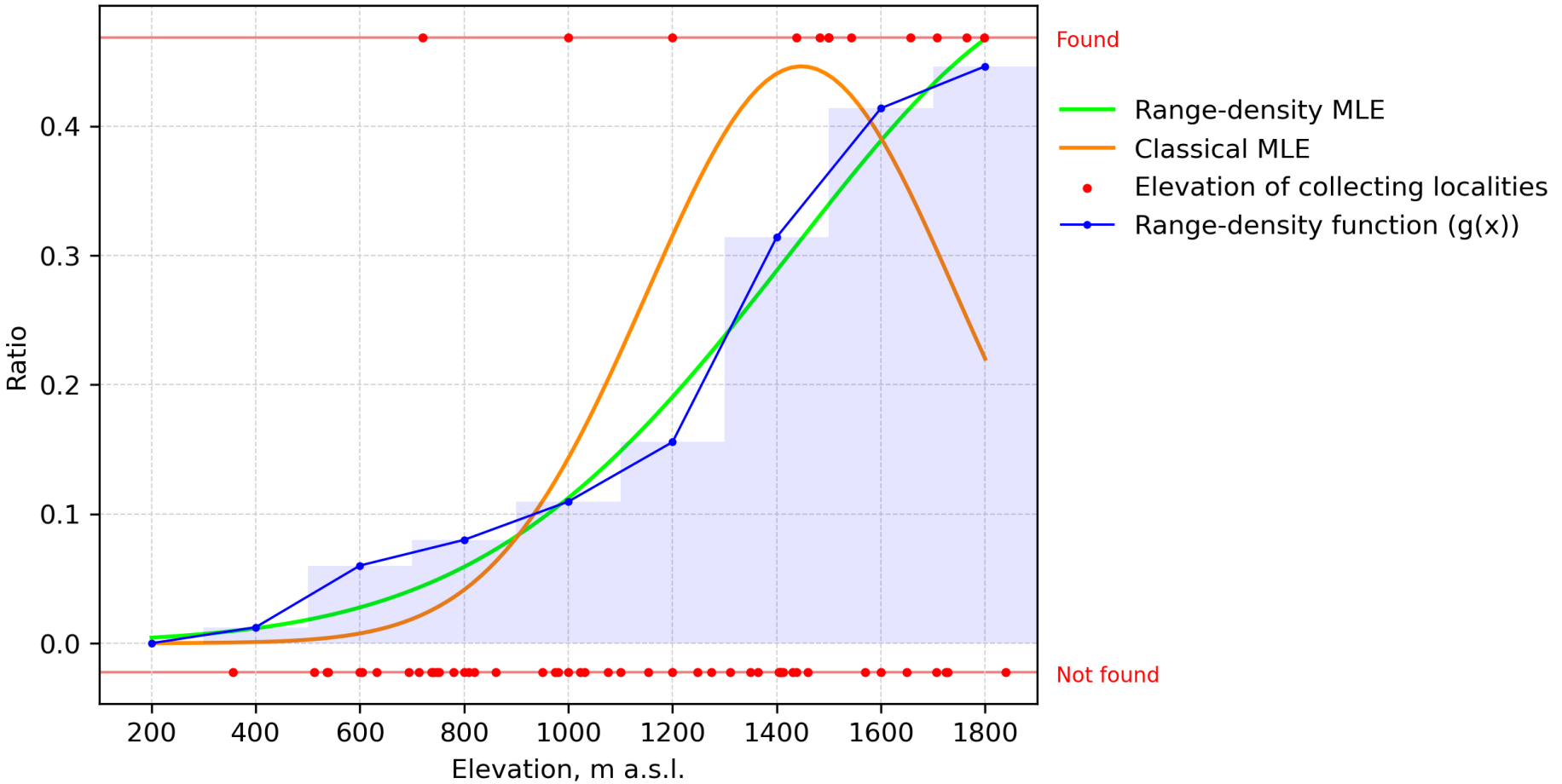


Figure 32. The ratio of the number of occurrences of Douinia plicata (Lindb.) Konstant. et Vilnet to the number of locations where the research was conducted

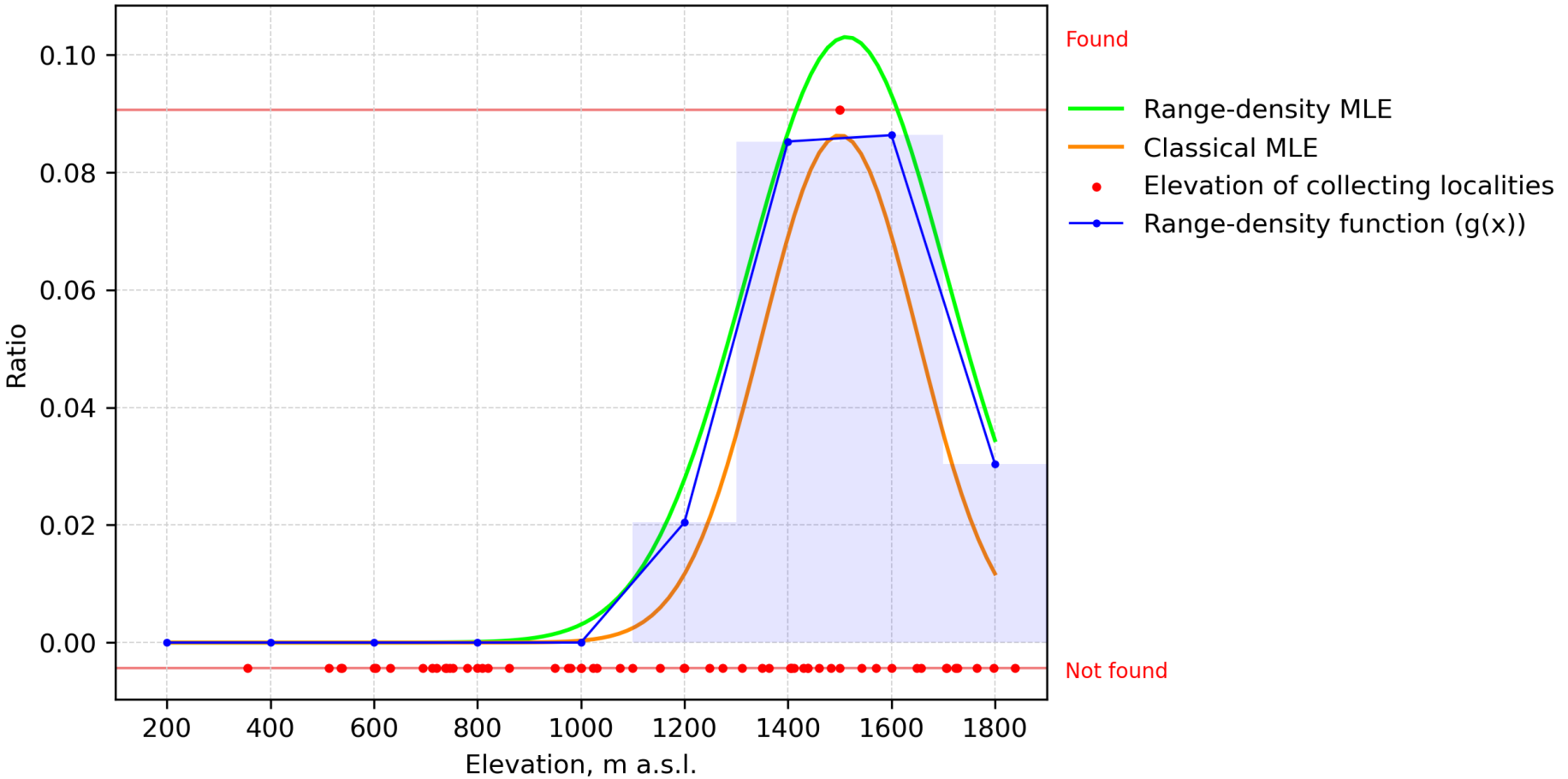


Figure 33. The ratio of the number of occurrences of Frullania appendiculata Steph to the number of locations where the research was conducted

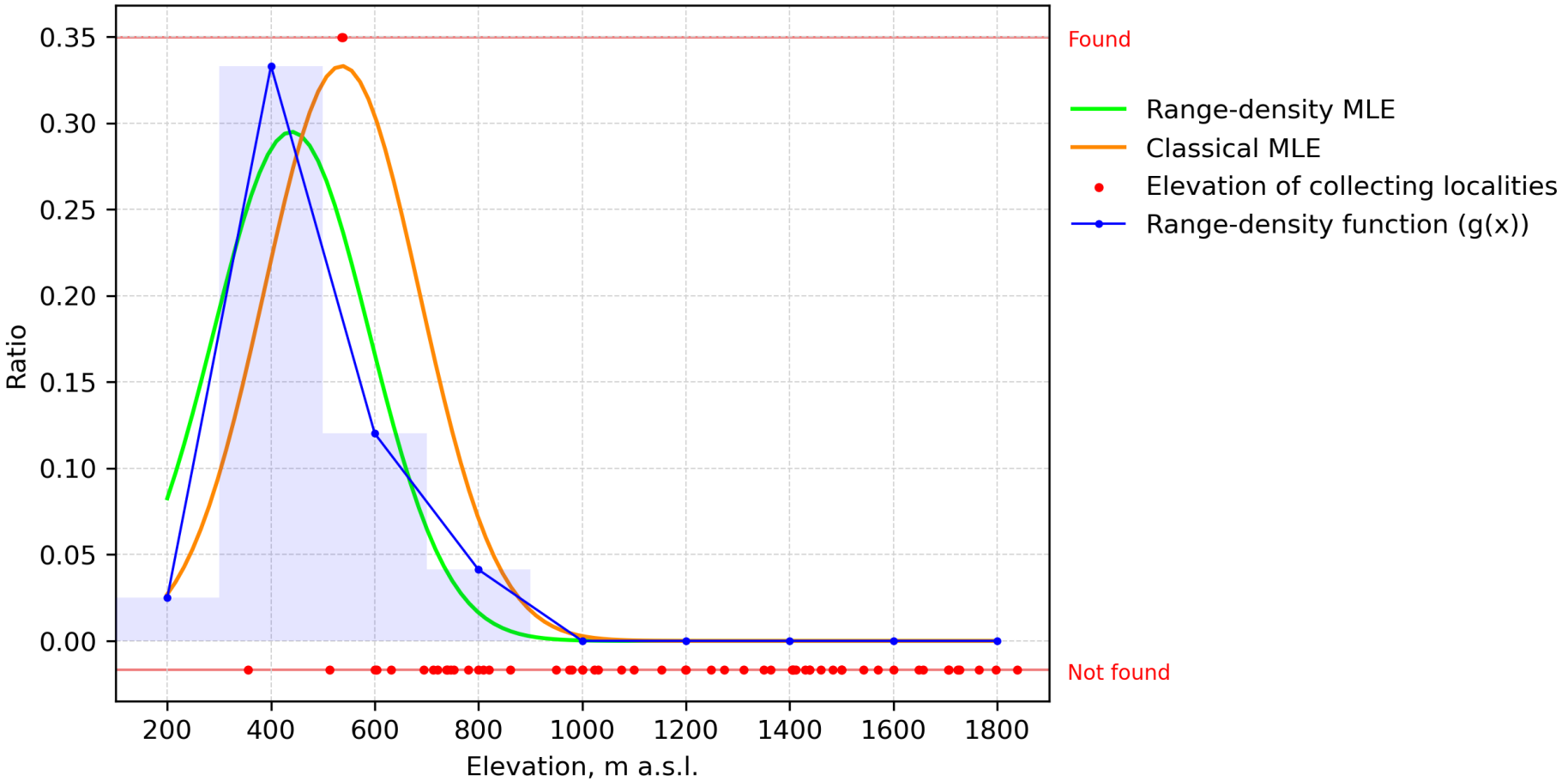


Figure 34. The ratio of the number of occurrences of Frullania austinii J.J. Atwood, Vilnet, Mamontov & Konstant to the number of locations where the research was conducted

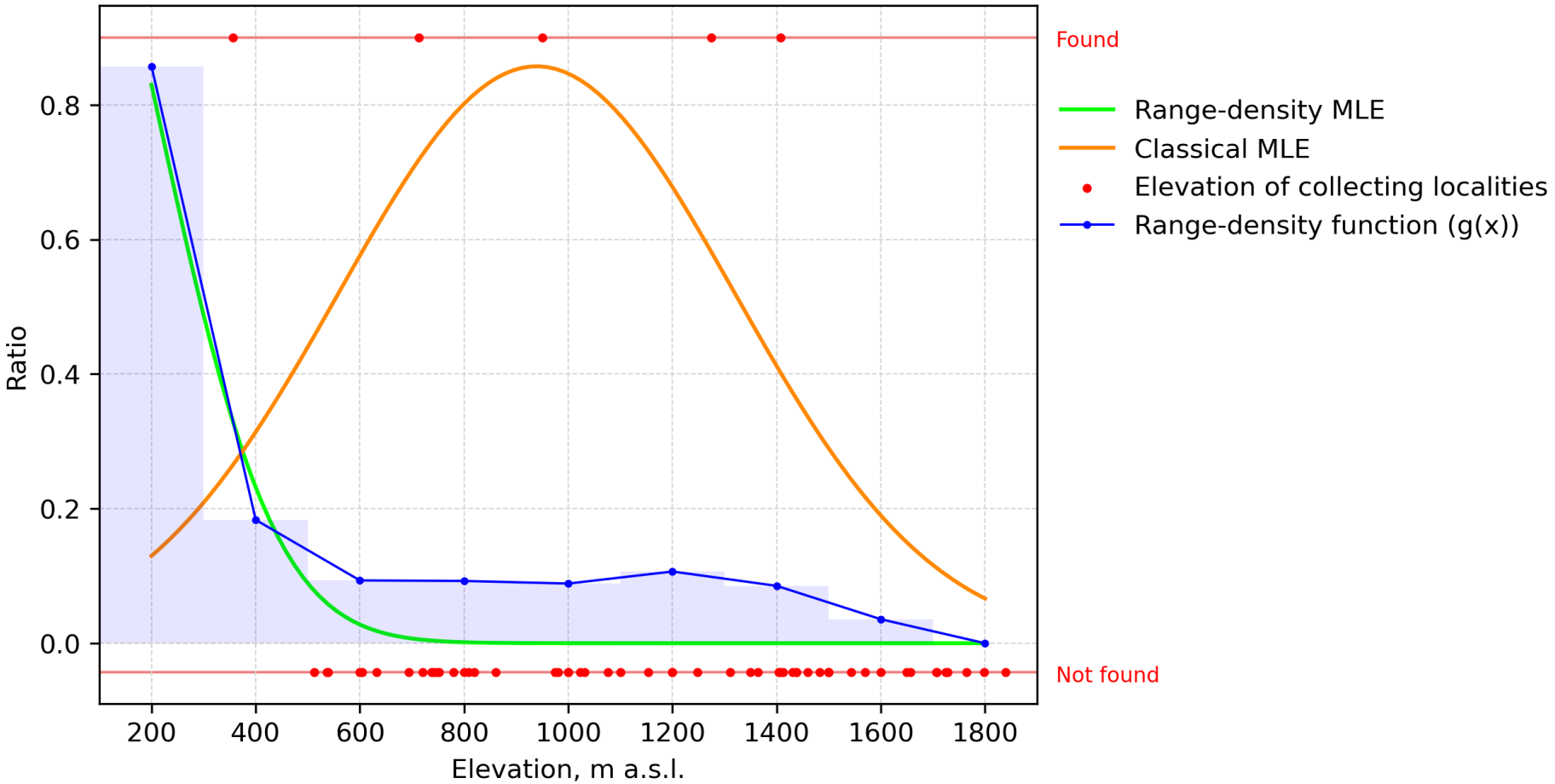


Figure 35. The ratio of the number of occurrences of Frullania davurica Hampe ex Gottsche to the number of locations where the research was conducted

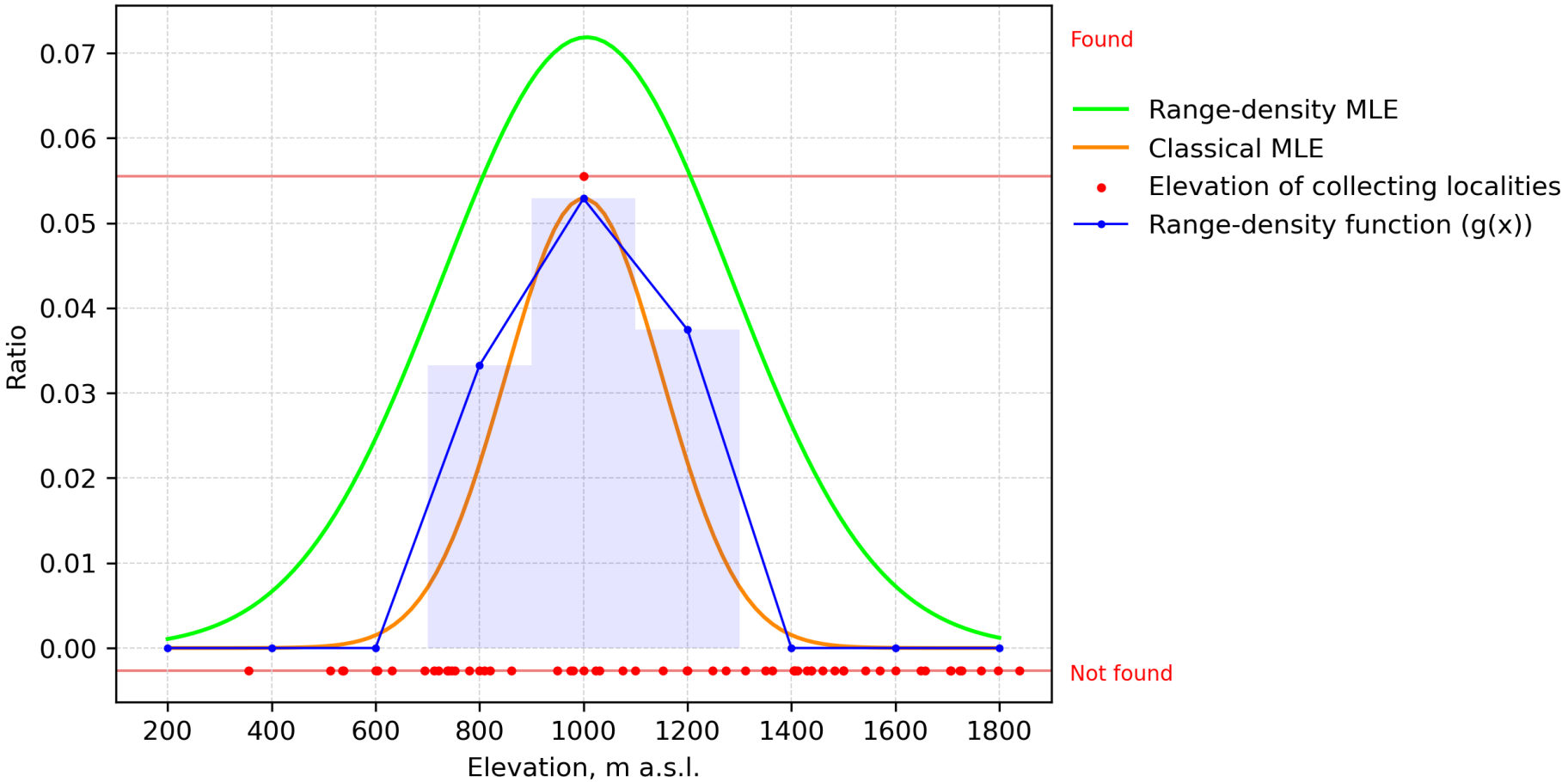


Figure 36. The ratio of the number of occurrences of Frullania koponenii S.Hatt to the number of locations where the research was conducted

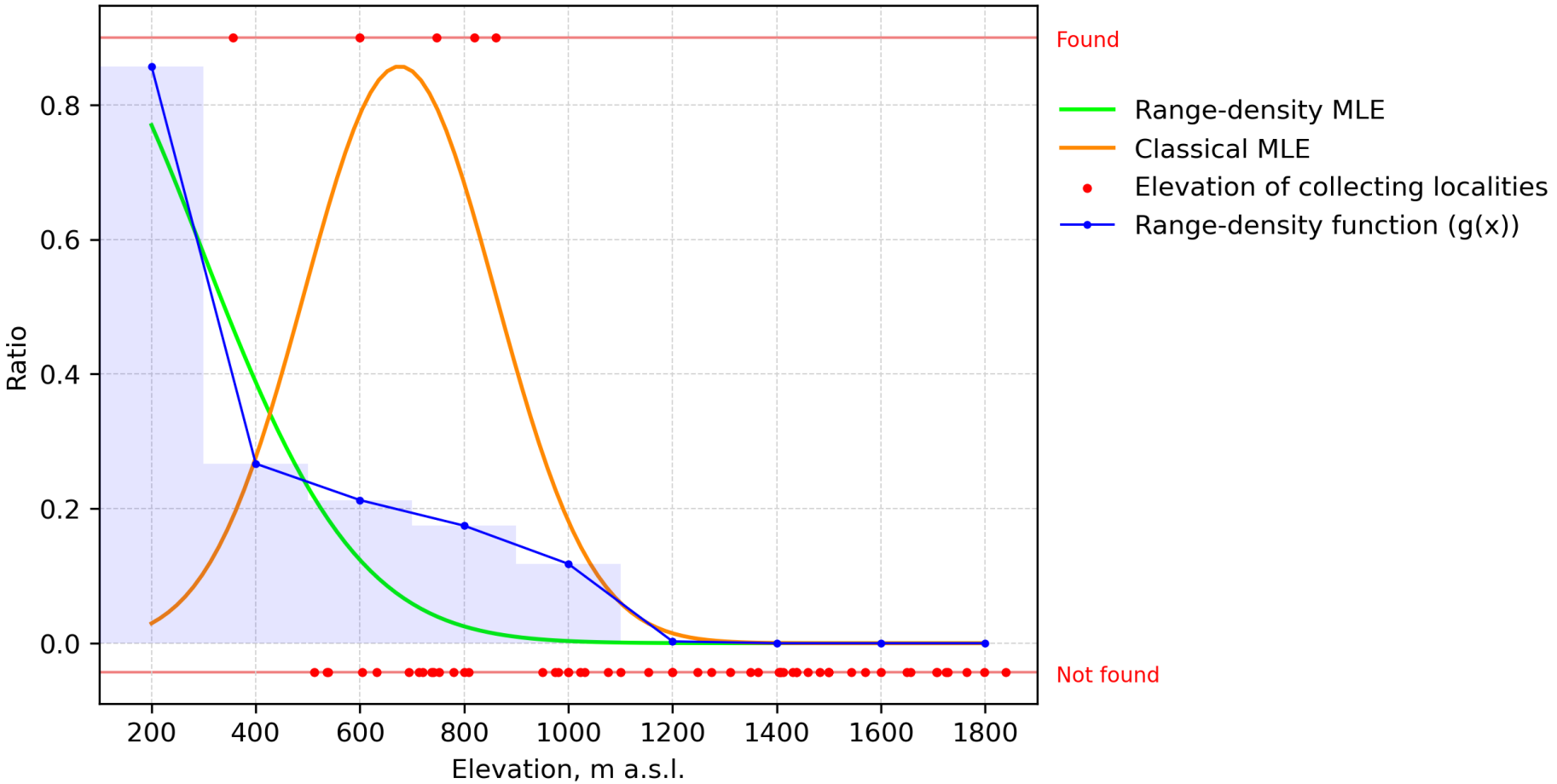


Figure 37. The ratio of the number of occurrences of Frullania muscicola Steph to the number of locations where the research was conducted

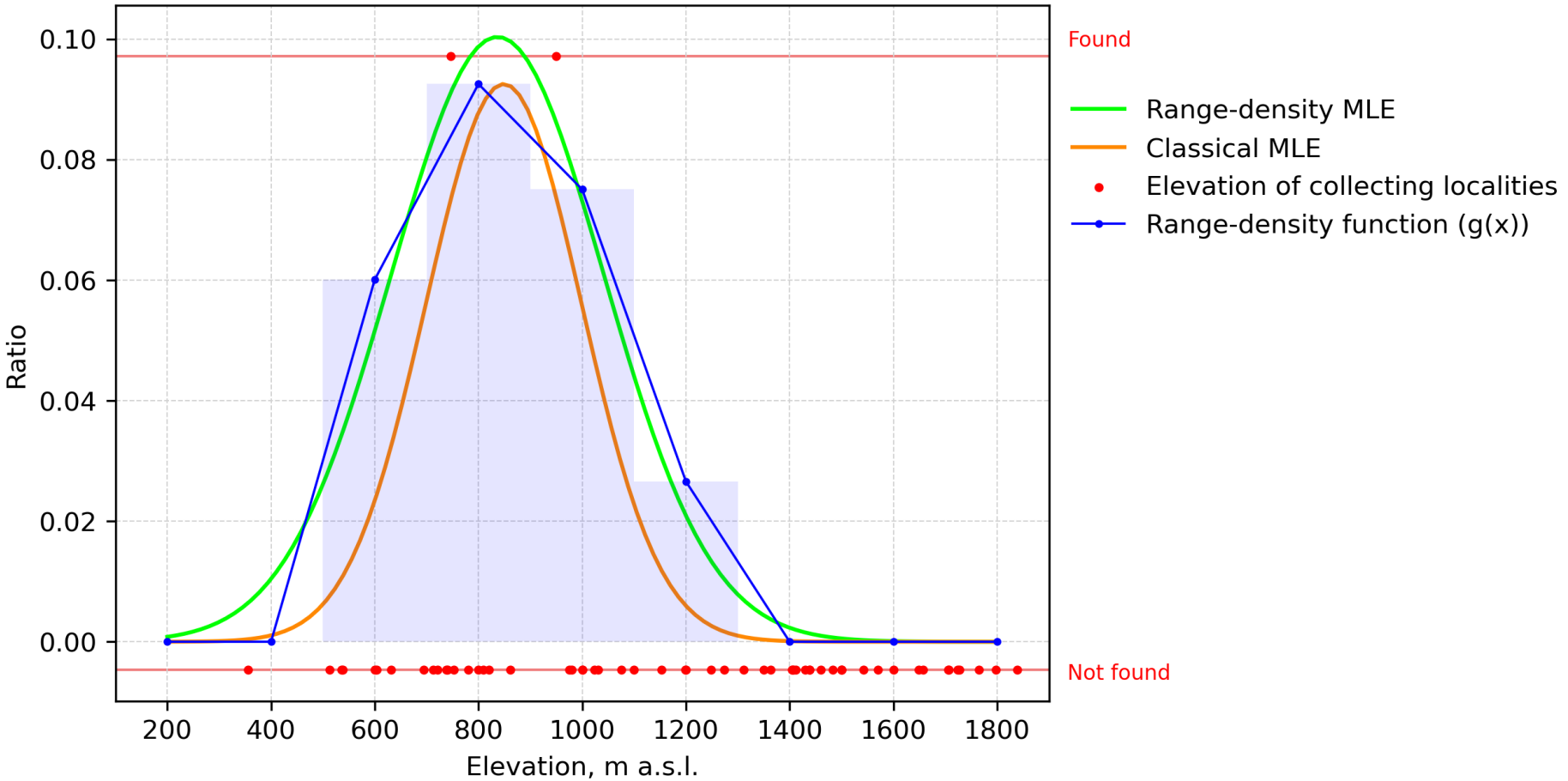


Figure 38. The ratio of the number of occurrences of Frullania sinensis Steph to the number of locations where the research was conducted

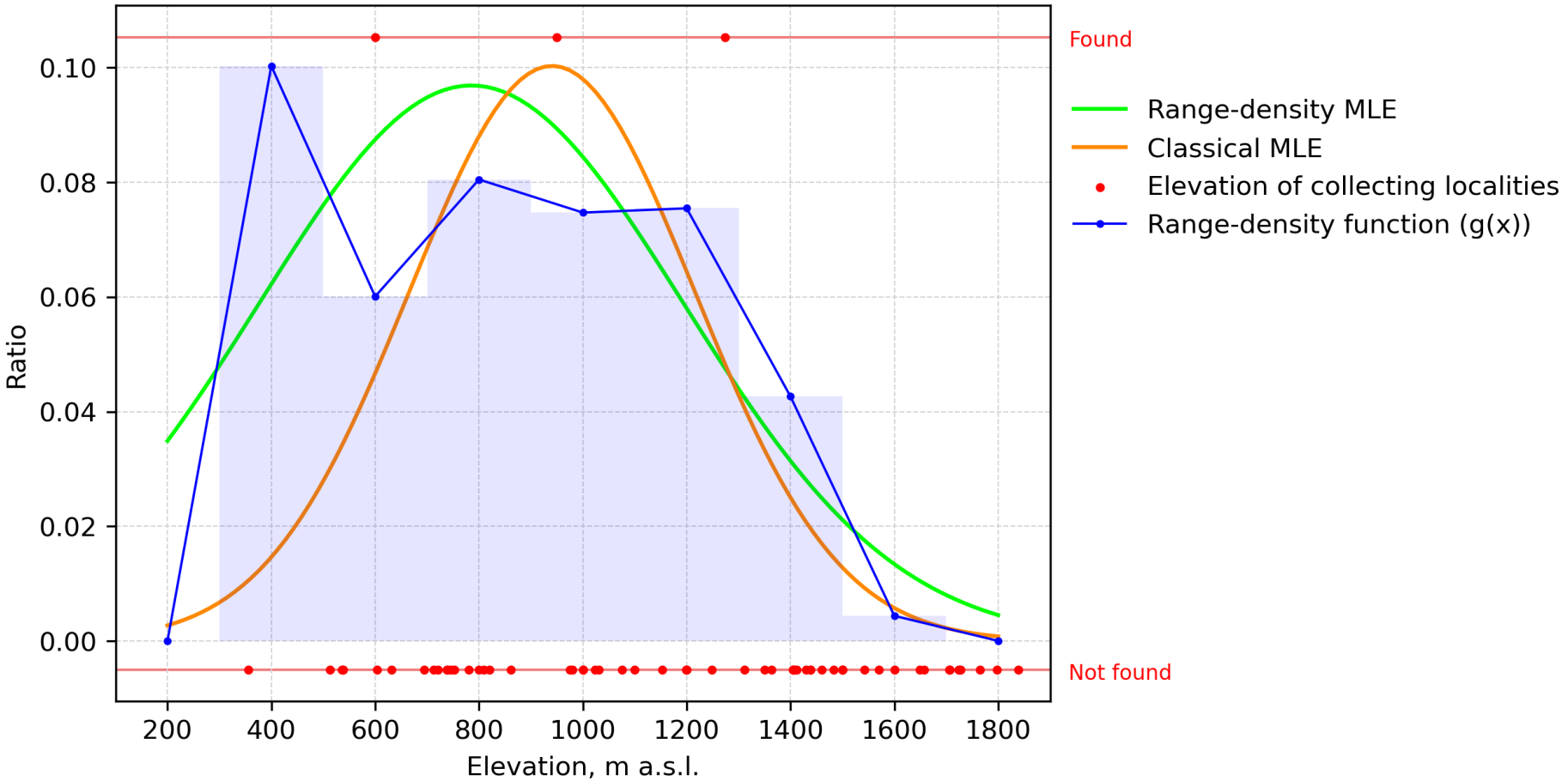


Figure 39. The ratio of the number of occurrences of Frullania takayuensis Steph to the number of locations where the research was conducted

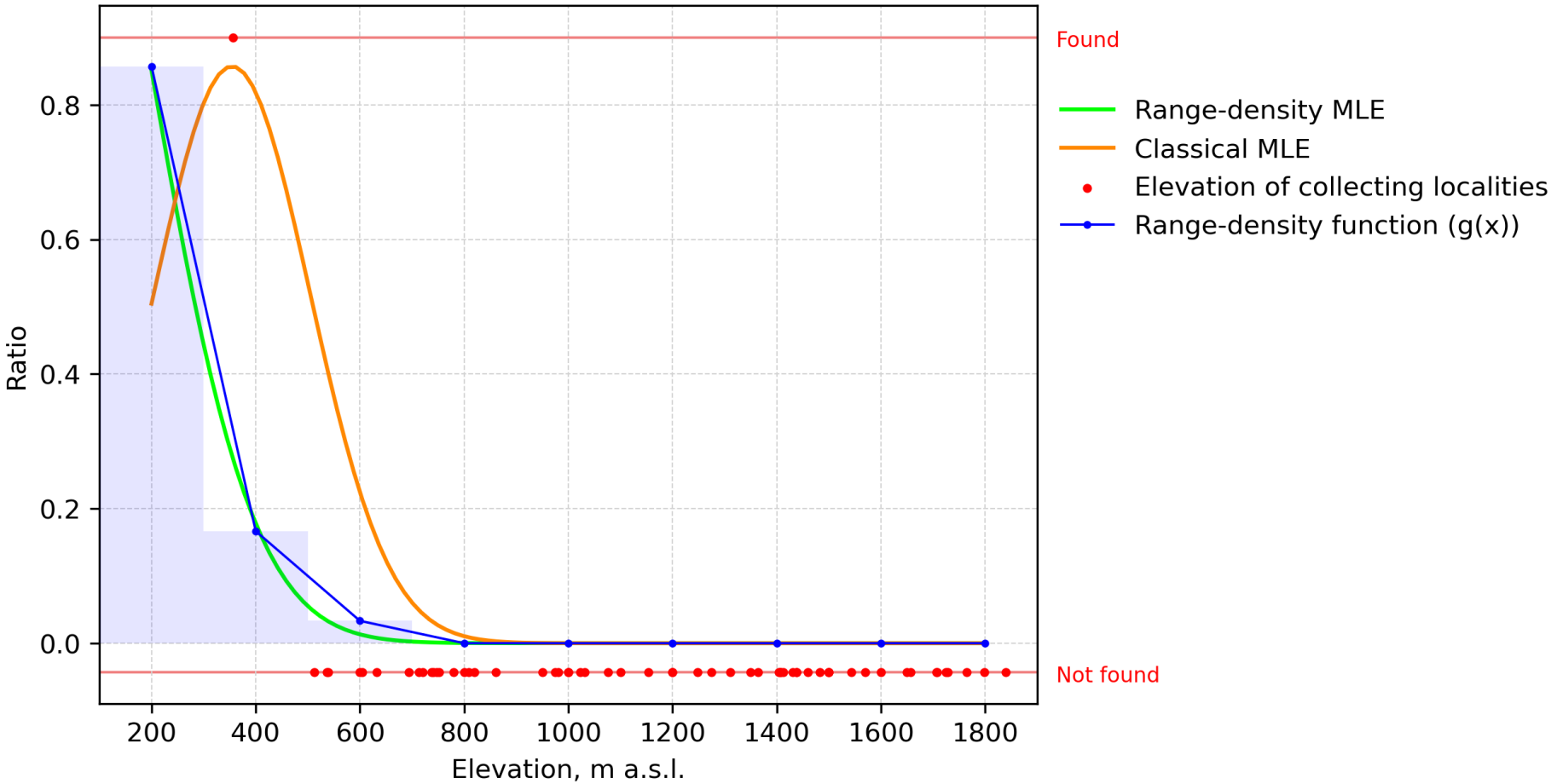


Figure 40. The ratio of the number of occurrences of Frullania taradakensis Steph to the number of locations where the research was conducted

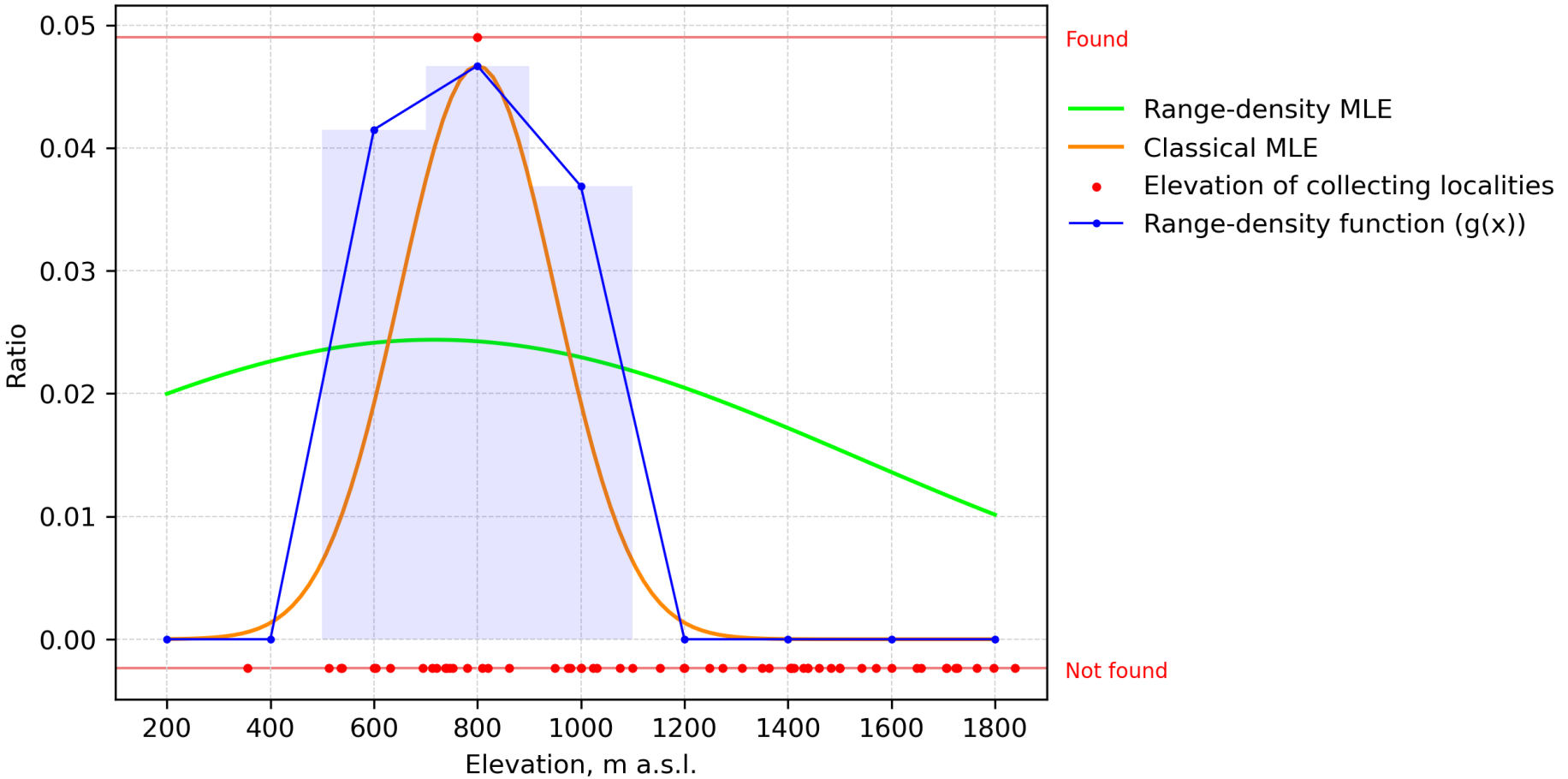


Figure 41. The ratio of the number of occurrences of Fuscocephaloziopsis catenulata (Huebener) Vá■a et L.Söderstr. subsp. catenu
to the number of locations where the research was conducted

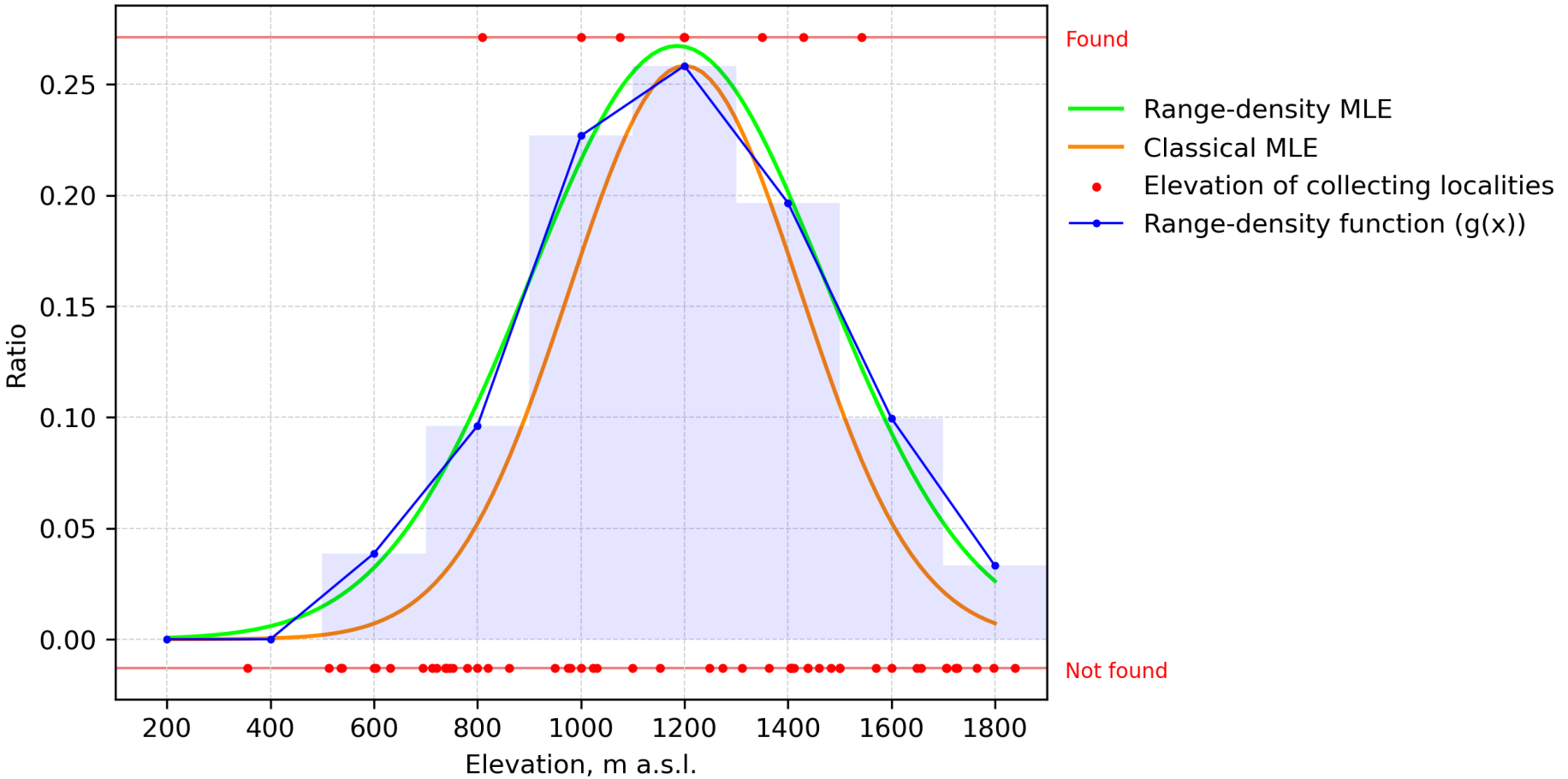


Figure 42. The ratio of the number of occurrences of Fuscocephaloziopsis leucantha (Spruce) Vá■a et L.Söderstr to the number of locations where the research was conducted

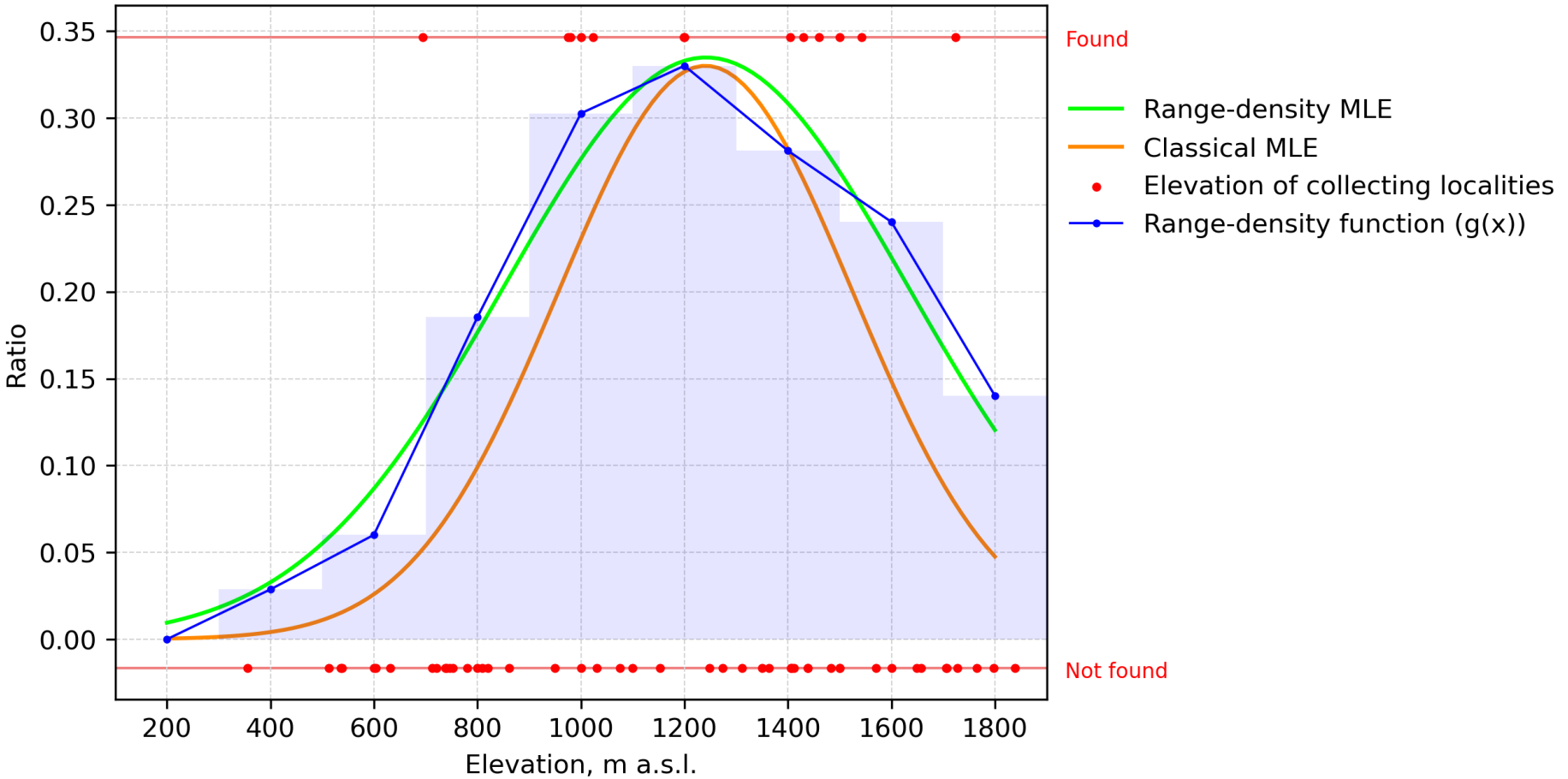


Figure 43. The ratio of the number of occurrences of Fuscocephaloziopsis lunulifolia (Dumort.) Vá■a et L.Söderstr to the number of locations where the research was conducted

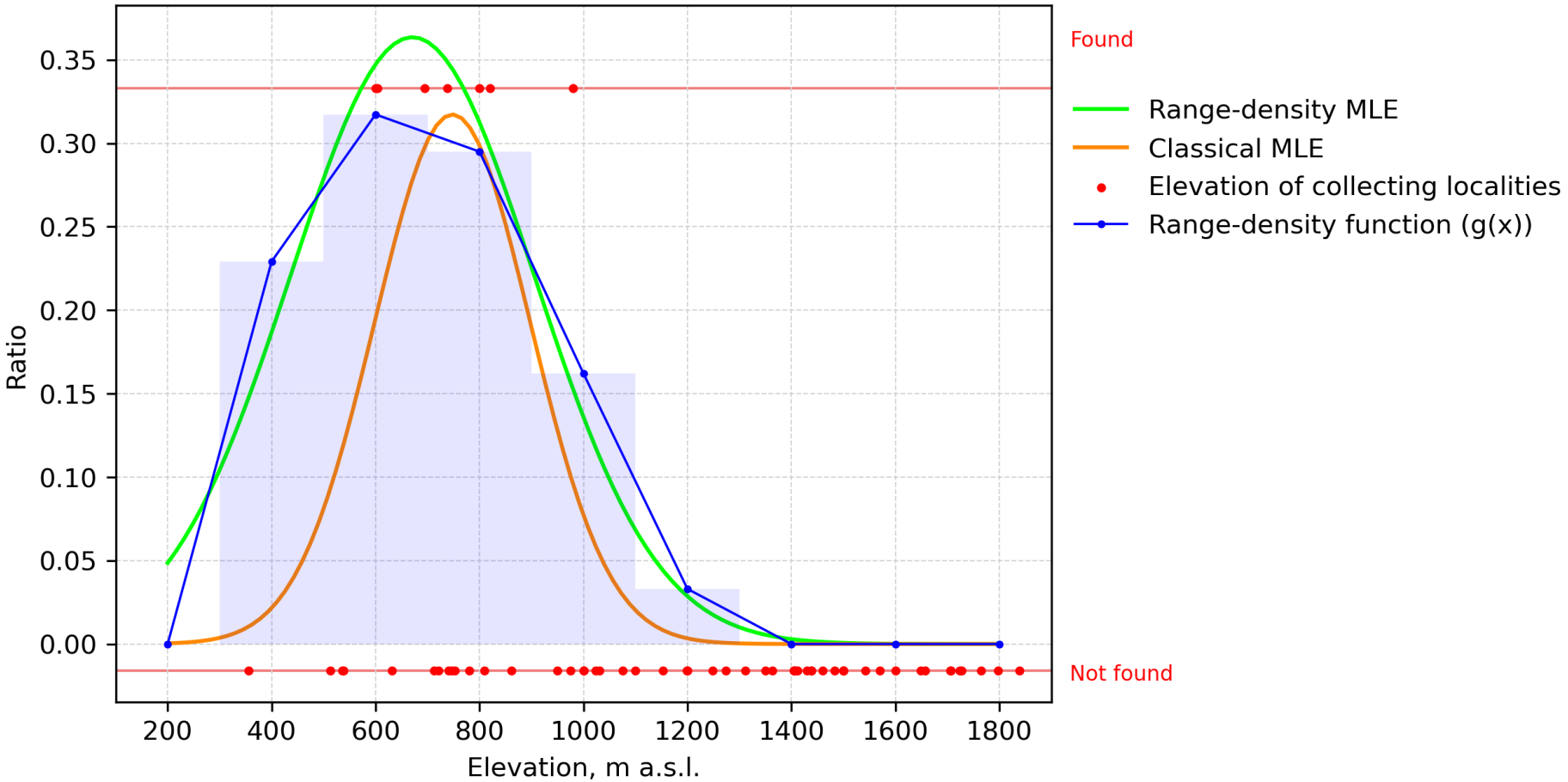


Figure 44. The ratio of the number of occurrences of Geocalyx graveolens (Schrad.) Nees to the number of locations where the research was conducted

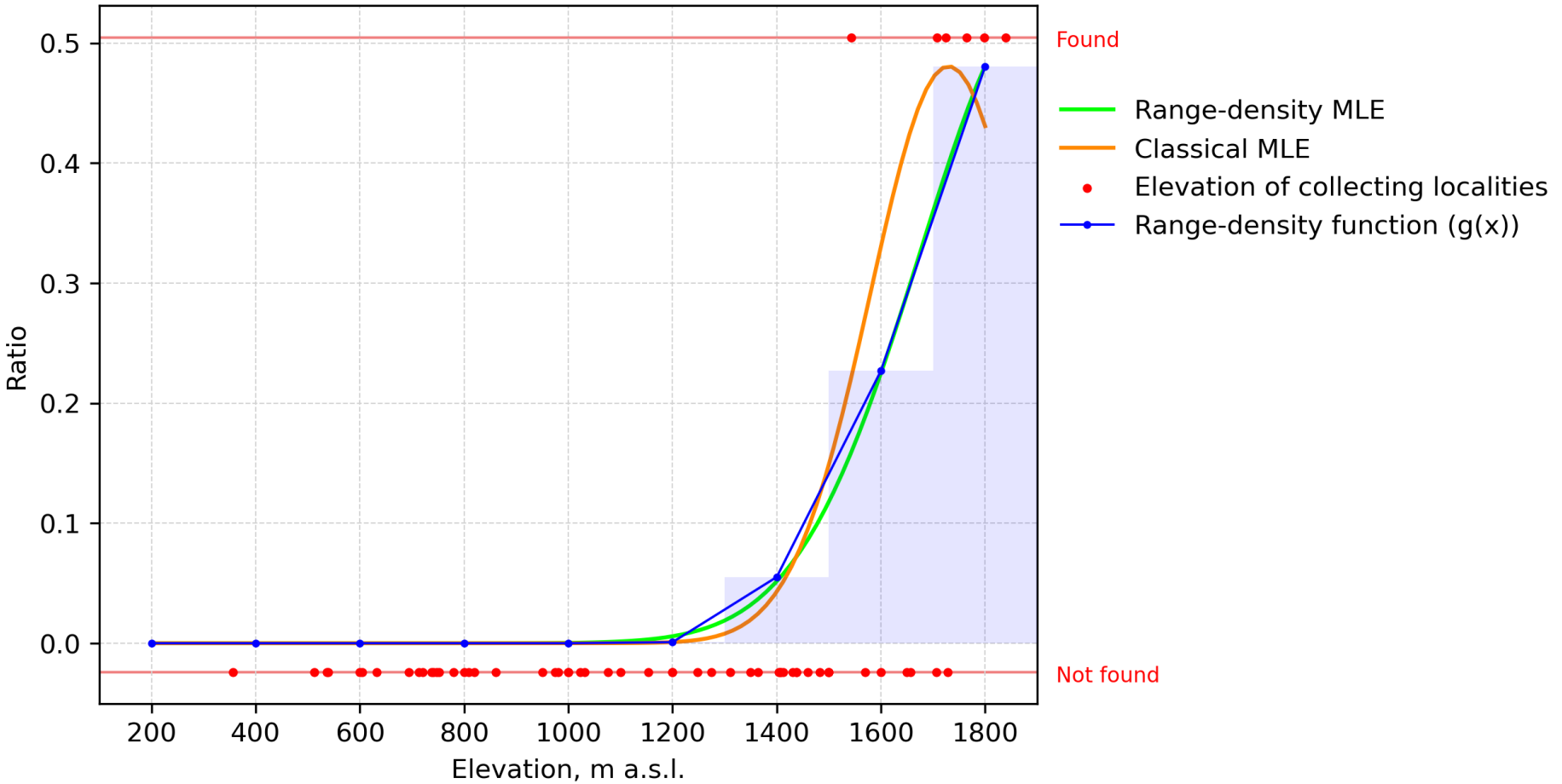


Figure 45. The ratio of the number of occurrences of Gymnomitrion parvitextum (Steph.) Mamontov, Konstant. & Potemkin to the number of locations where the research was conducted

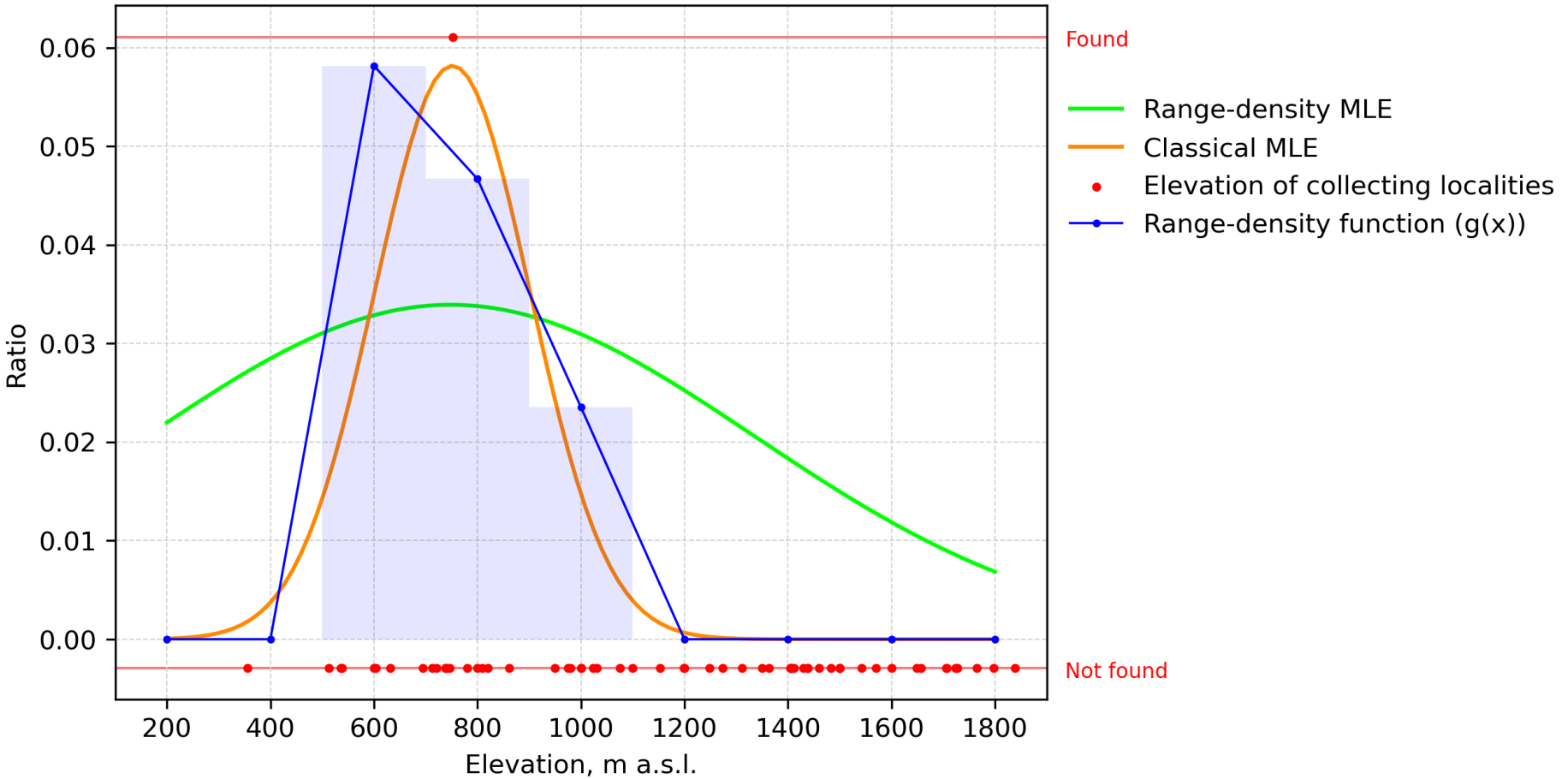


Figure 46. The ratio of the number of occurrences of Harpanthus flotovianus (Nees) Nees to the number of locations where the research was conducted

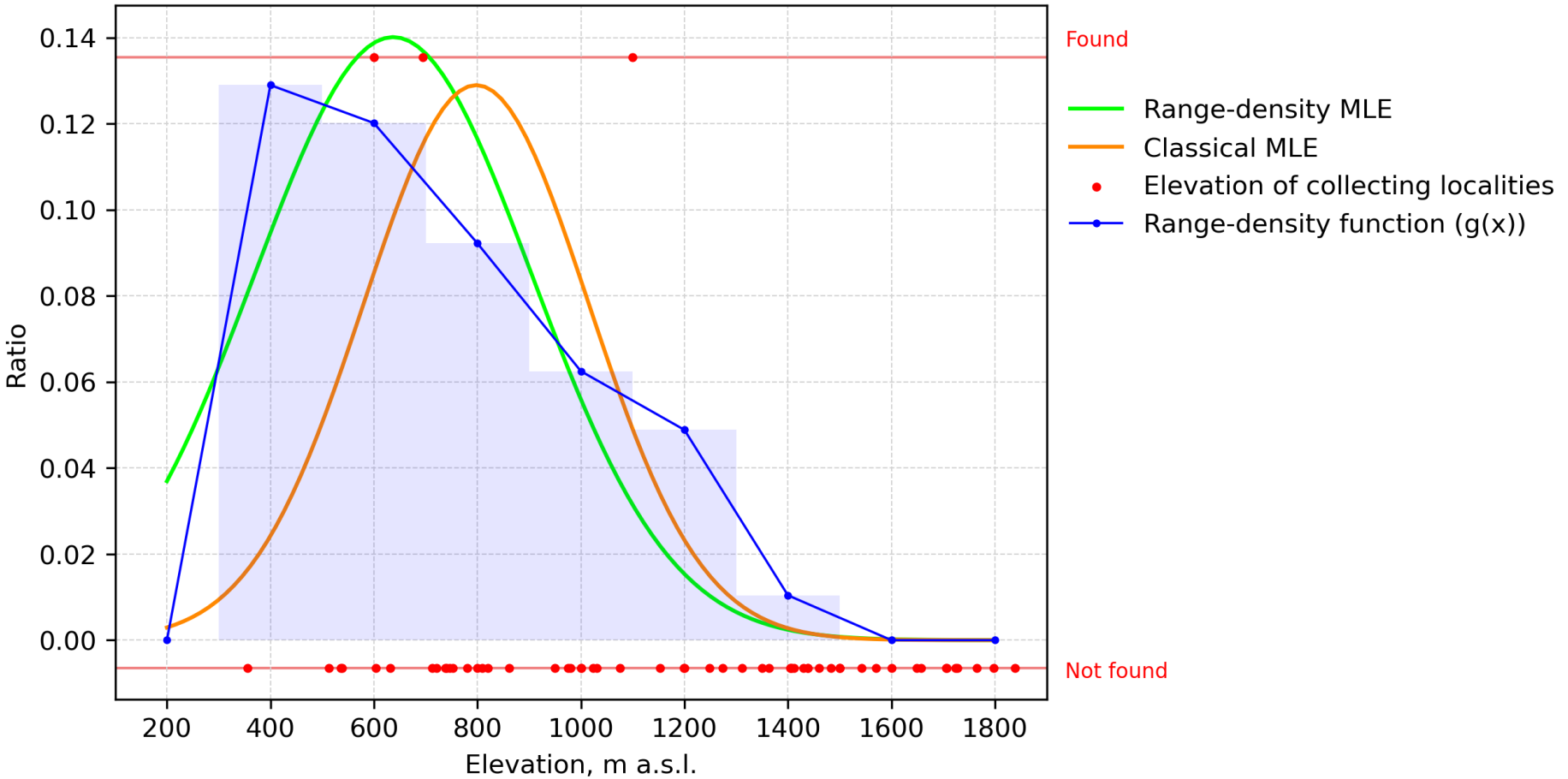


Figure 47. The ratio of the number of occurrences of Harpanthus scutatus (F.Weber et D.Mohr) Spruce to the number of locations where the research was conducted

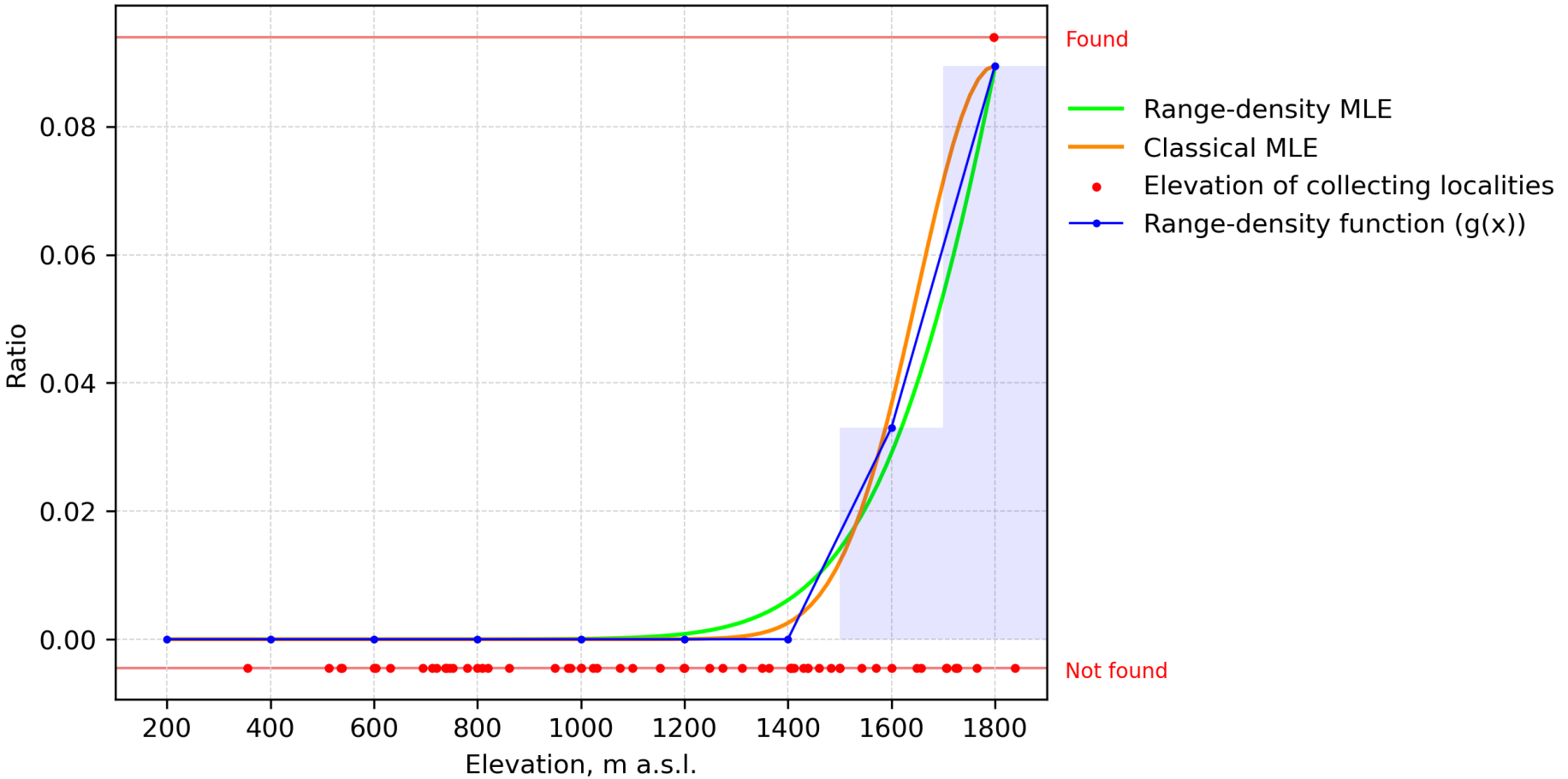


Figure 48. The ratio of the number of occurrences of Herbertus aduncus (Dicks.) Gray to the number of locations where the research was conducted

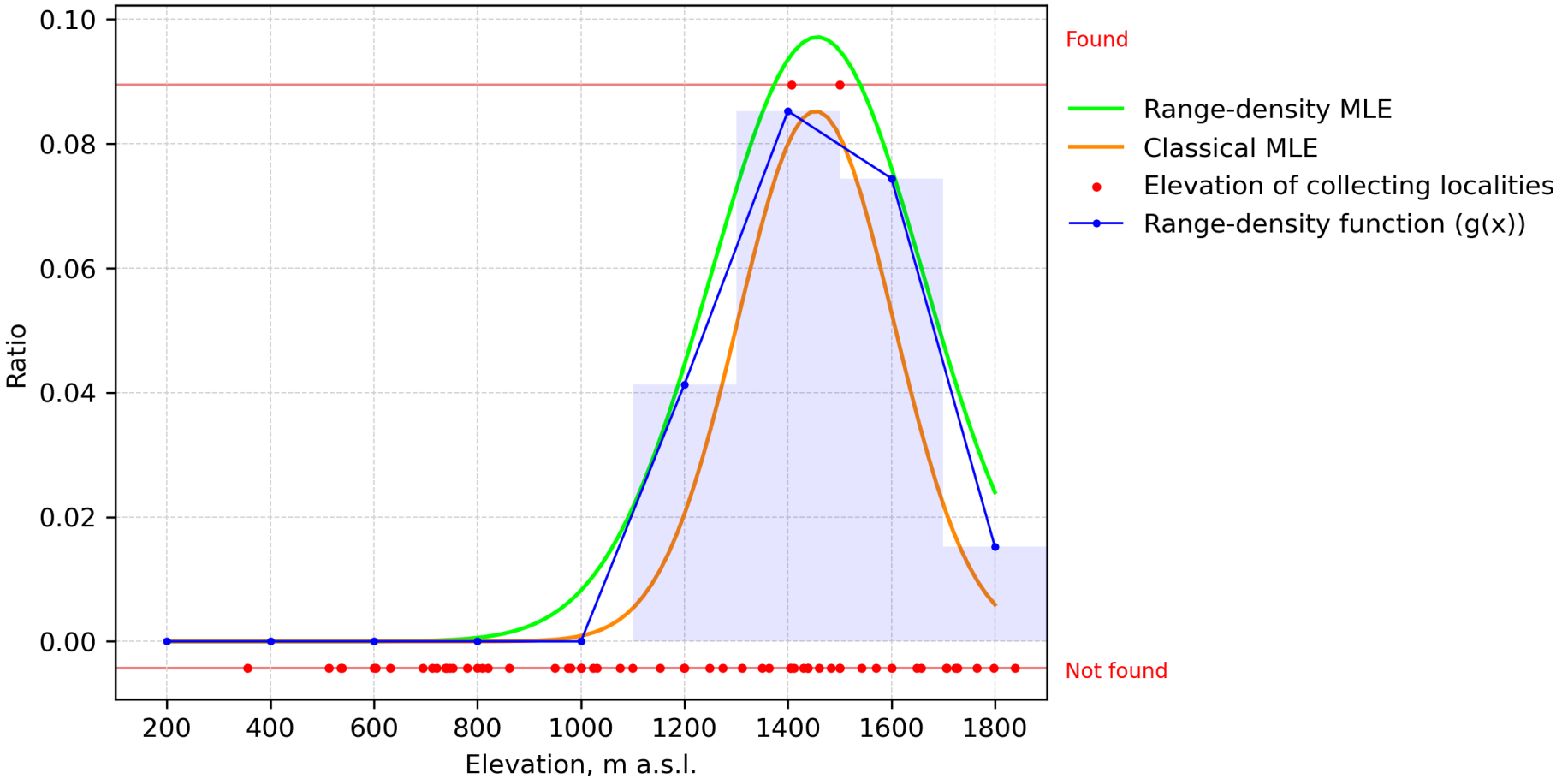


Figure 49. The ratio of the number of occurrences of Herbertus buchii Juslén to the number of locations where the research was conducted

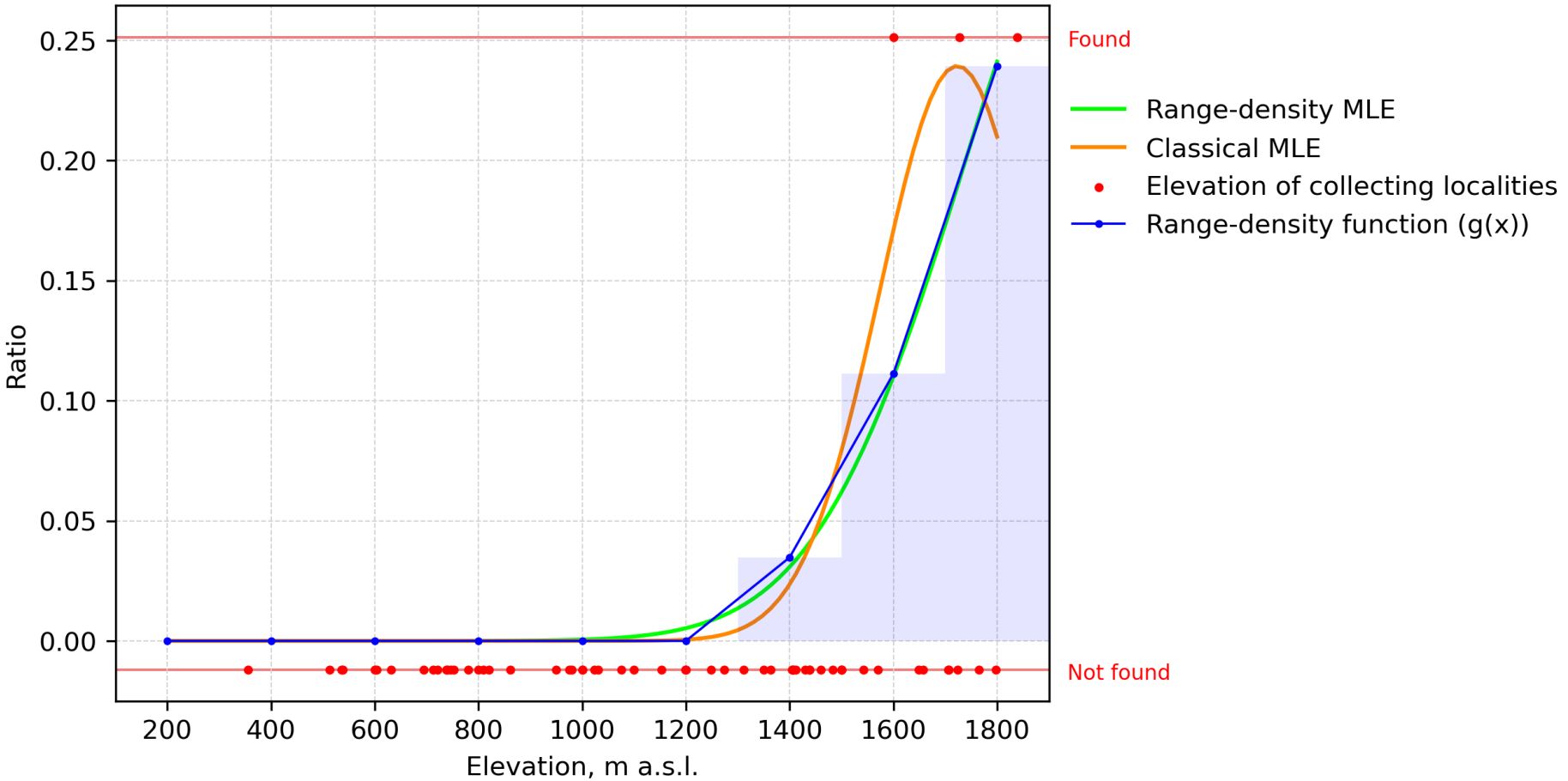


Figure 50. The ratio of the number of occurrences of Herbertus dicranus (Taylor ex Gottsche, Lindenb. et Nees) Trevis to the number of locations where the research was conducted

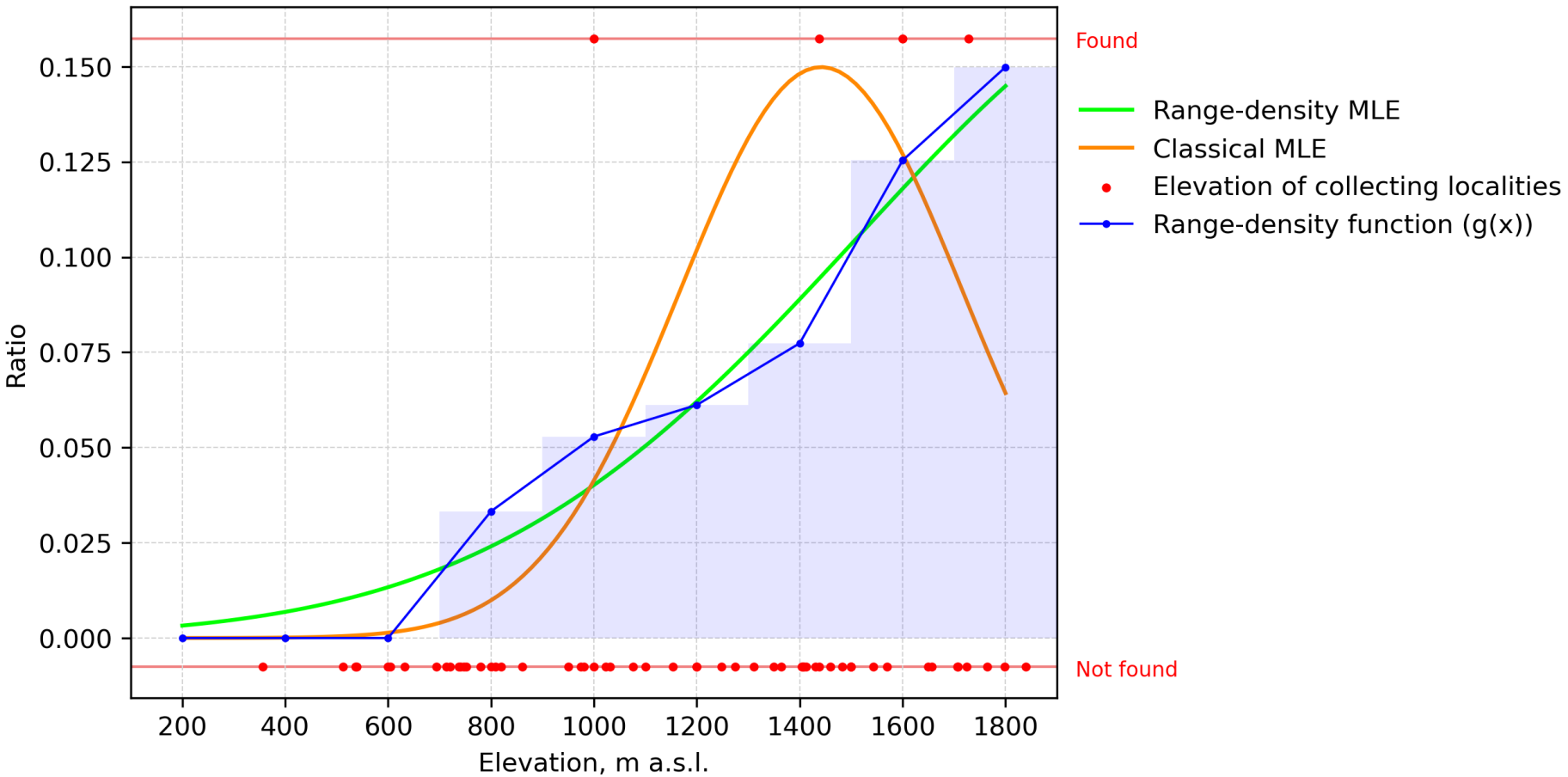


Figure 51. The ratio of the number of occurrences of Isopaches bicrenatus (Schmidel ex Hoffm.) H.Buch to the number of locations where the research was conducted

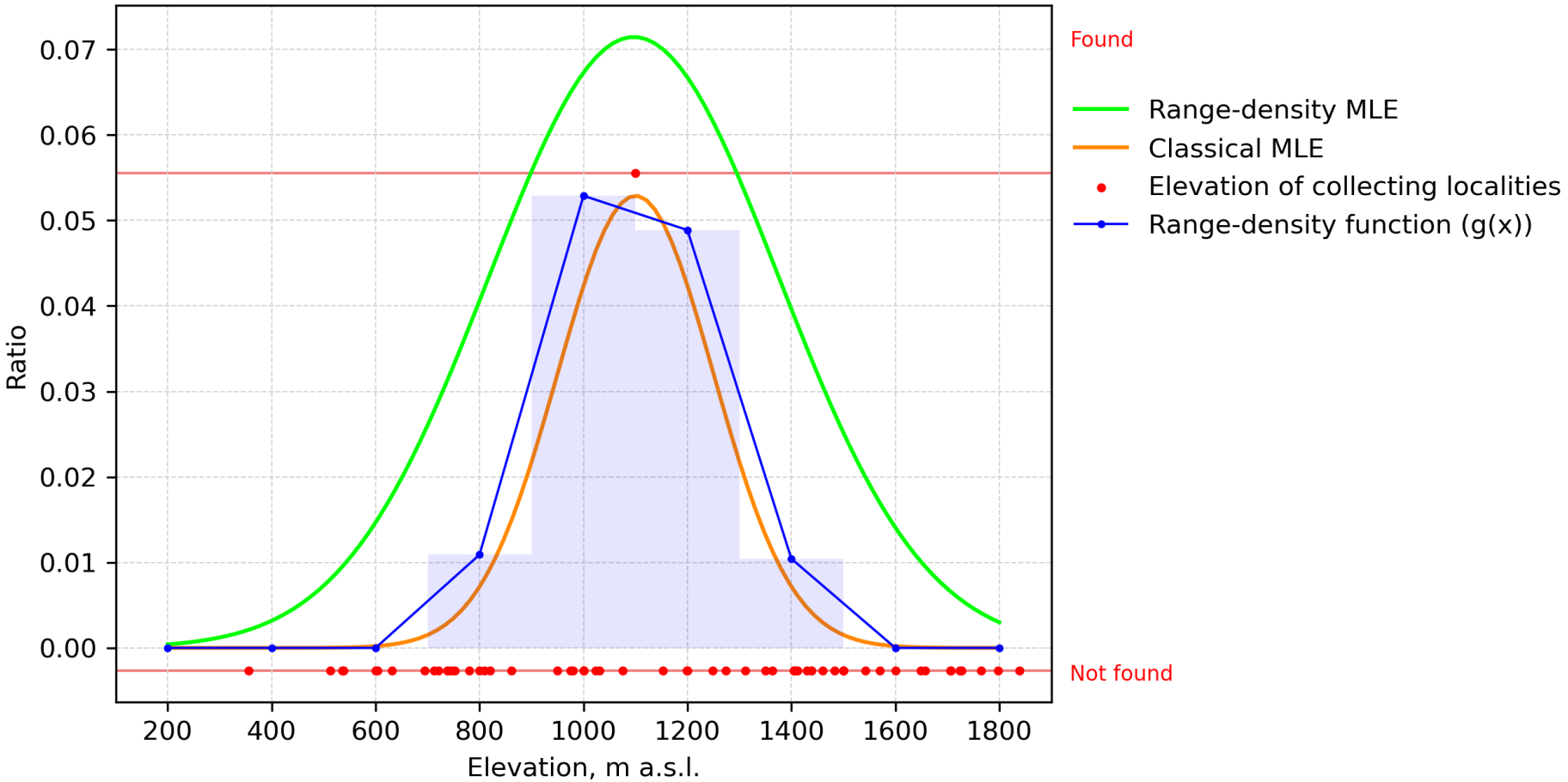


Figure 52. The ratio of the number of occurrences of Jungermannia pumila With to the number of locations where the research was conducted

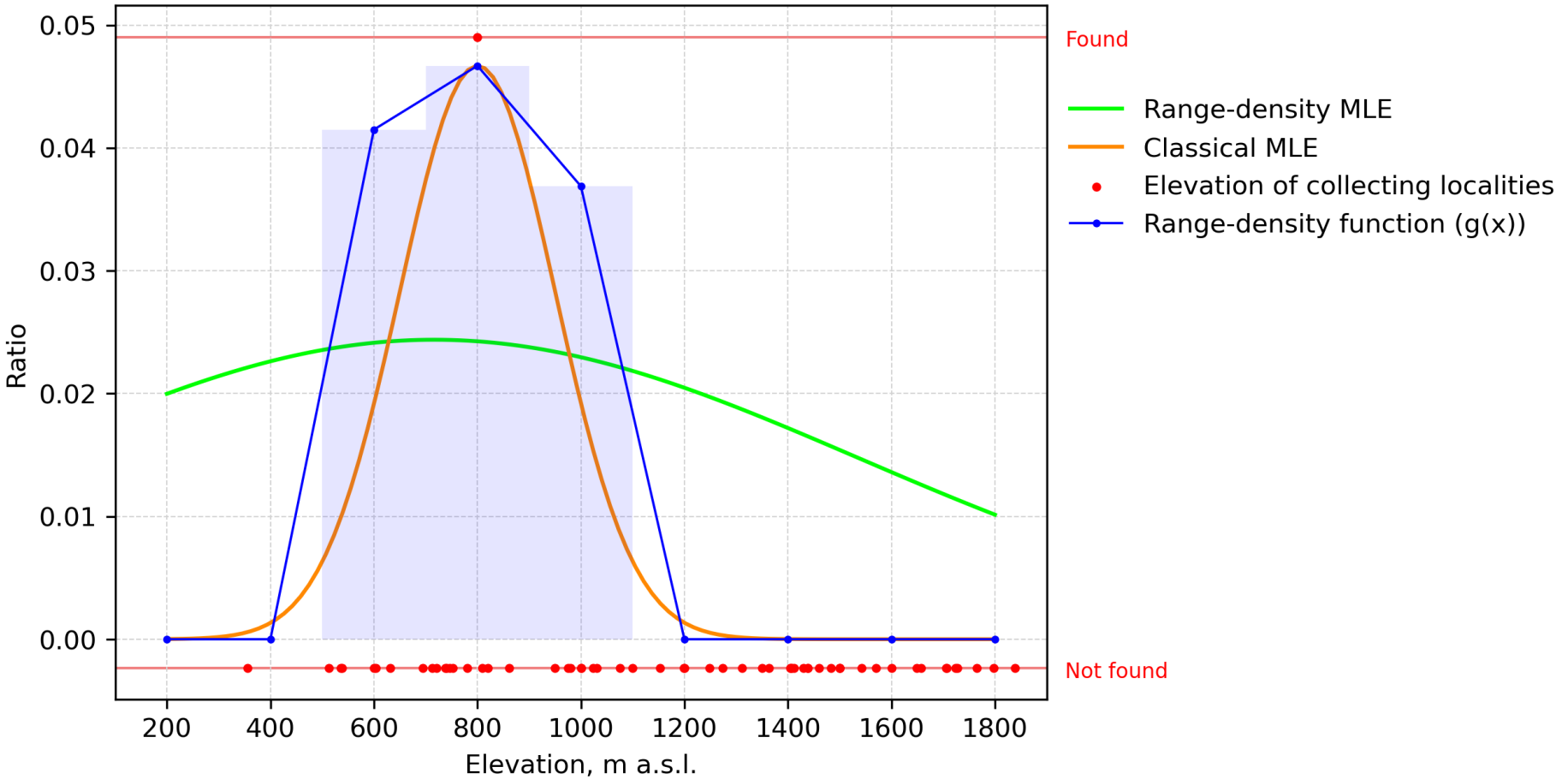


Figure 53. The ratio of the number of occurrences of Lejeunea japonica Mitt to the number of locations where the research was conducted

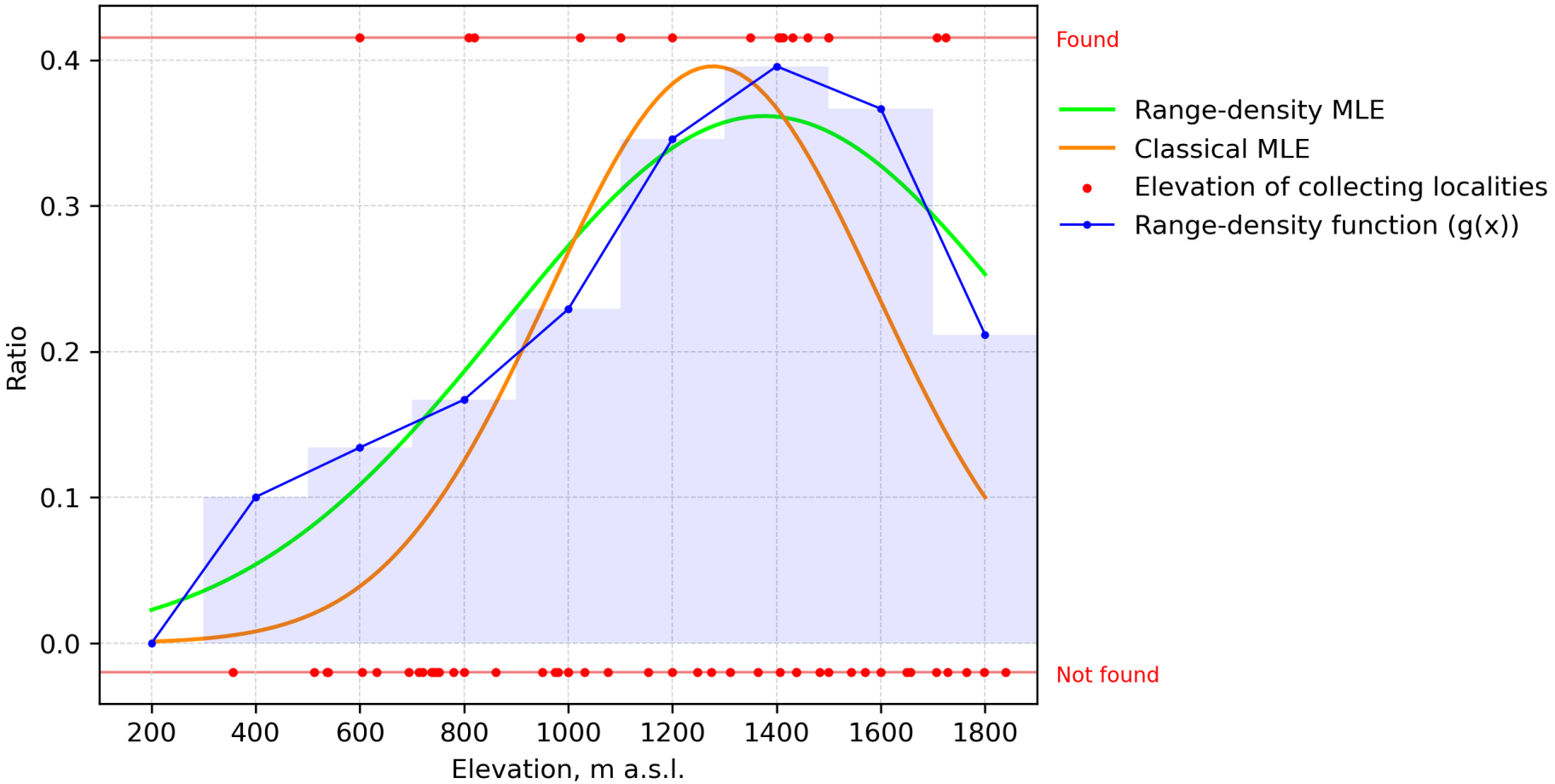


Figure 54. The ratio of the number of occurrences of Lepidozia reptans (L.) Dumort to the number of locations where the research was conducted

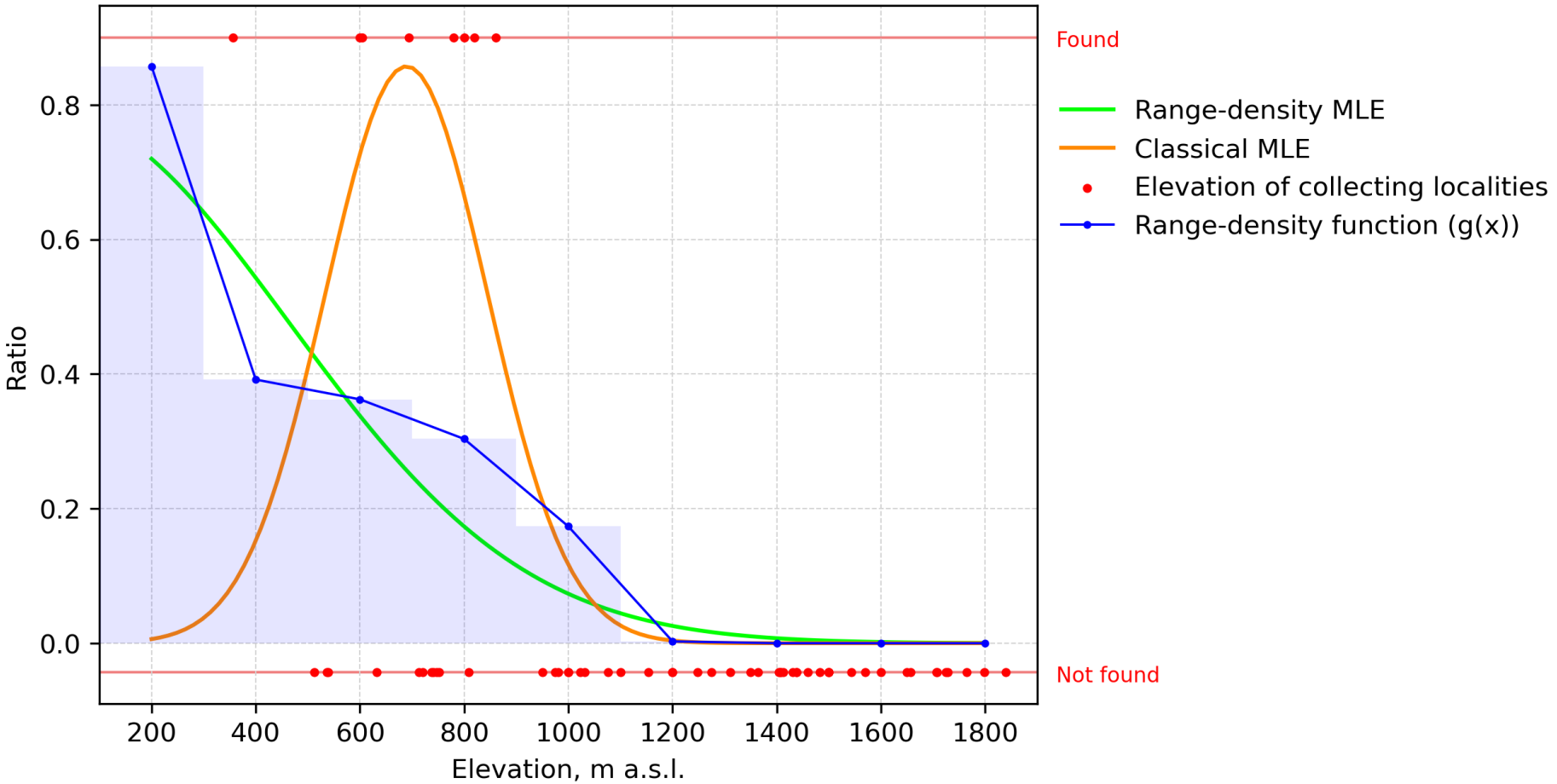


Figure 55. The ratio of the number of occurrences of Liochlaena subulata (A.Evans) Schljakov to the number of locations where the research was conducted

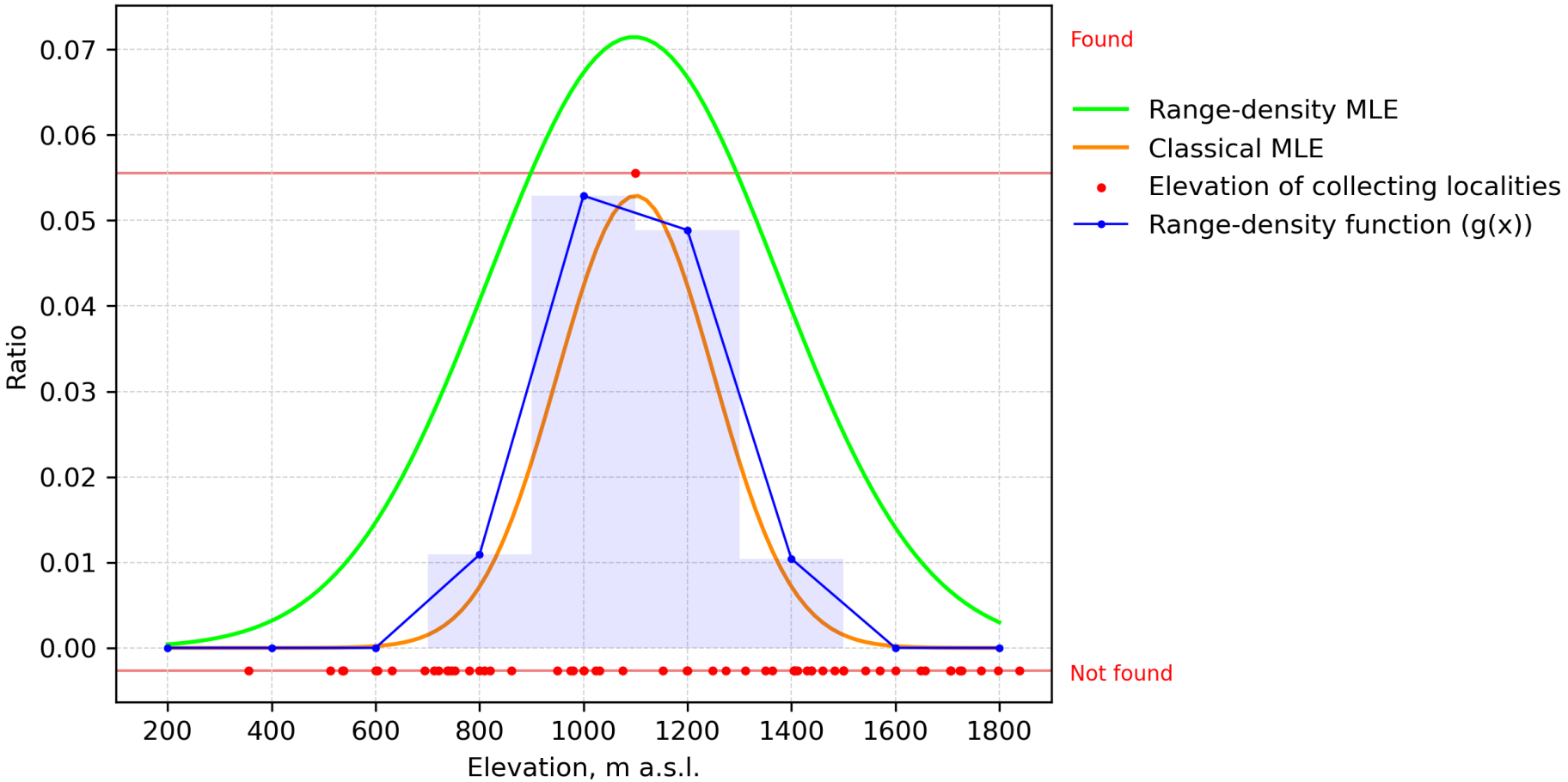


Figure 56. The ratio of the number of occurrences of Lophocolea cuspidata (Nees) Limpr to the number of locations where the research was conducted

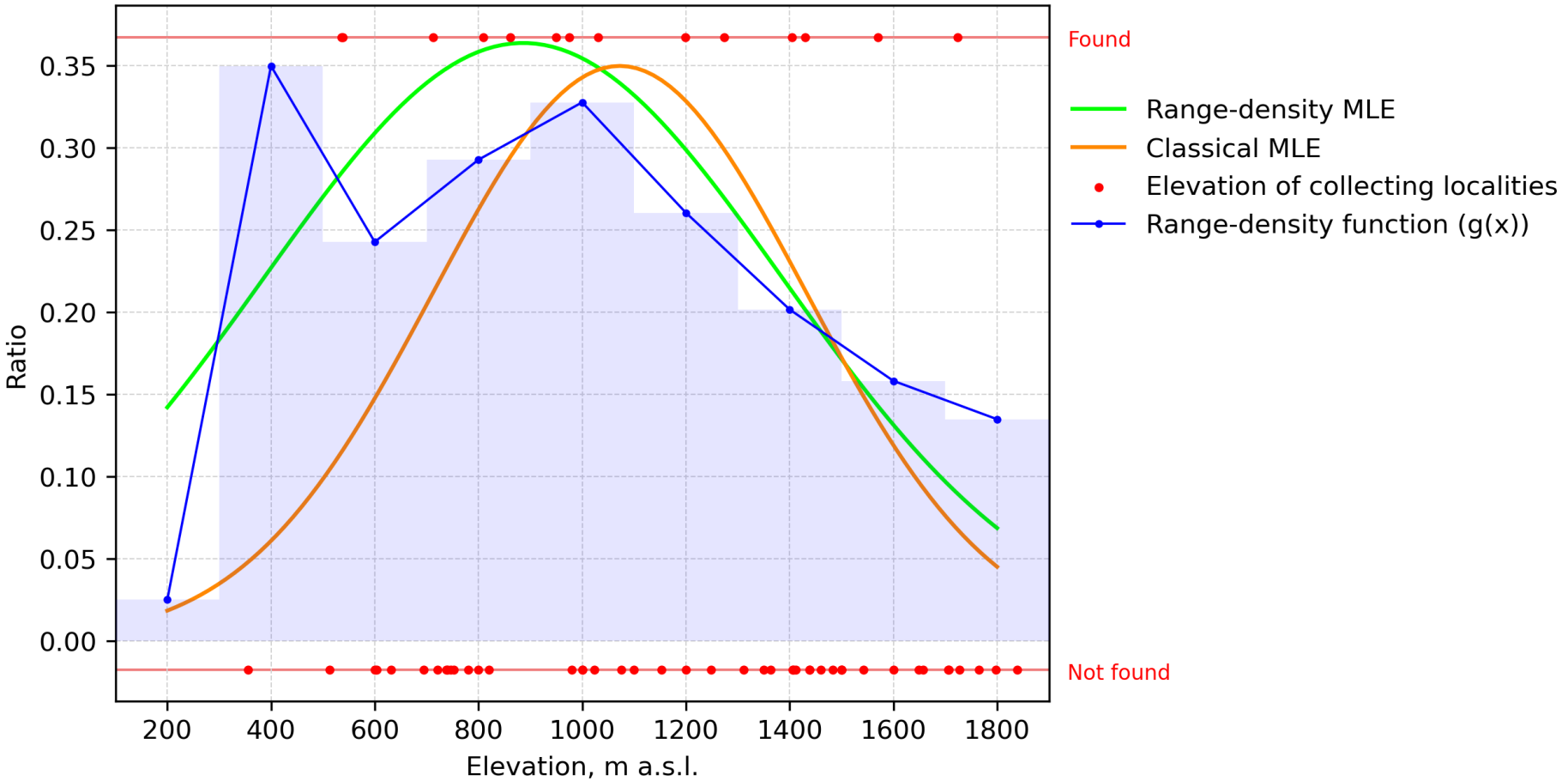


Figure 57. The ratio of the number of occurrences of Lophocolea heterophylla (Schrad.) Dumort to the number of locations where the research was conducted

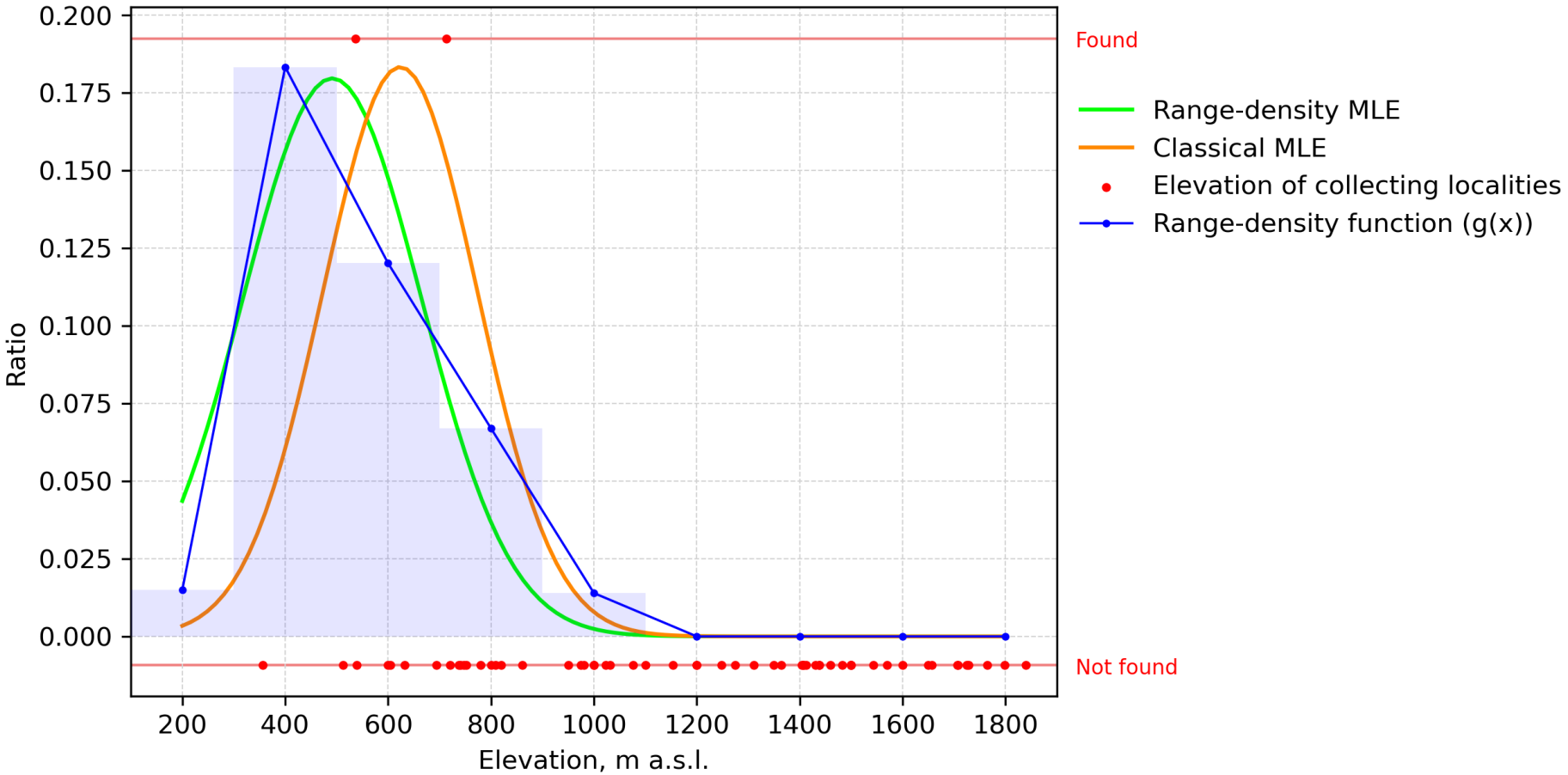


Figure 58. The ratio of the number of occurrences of Lophocolea minor Nees to the number of locations where the research was conducted

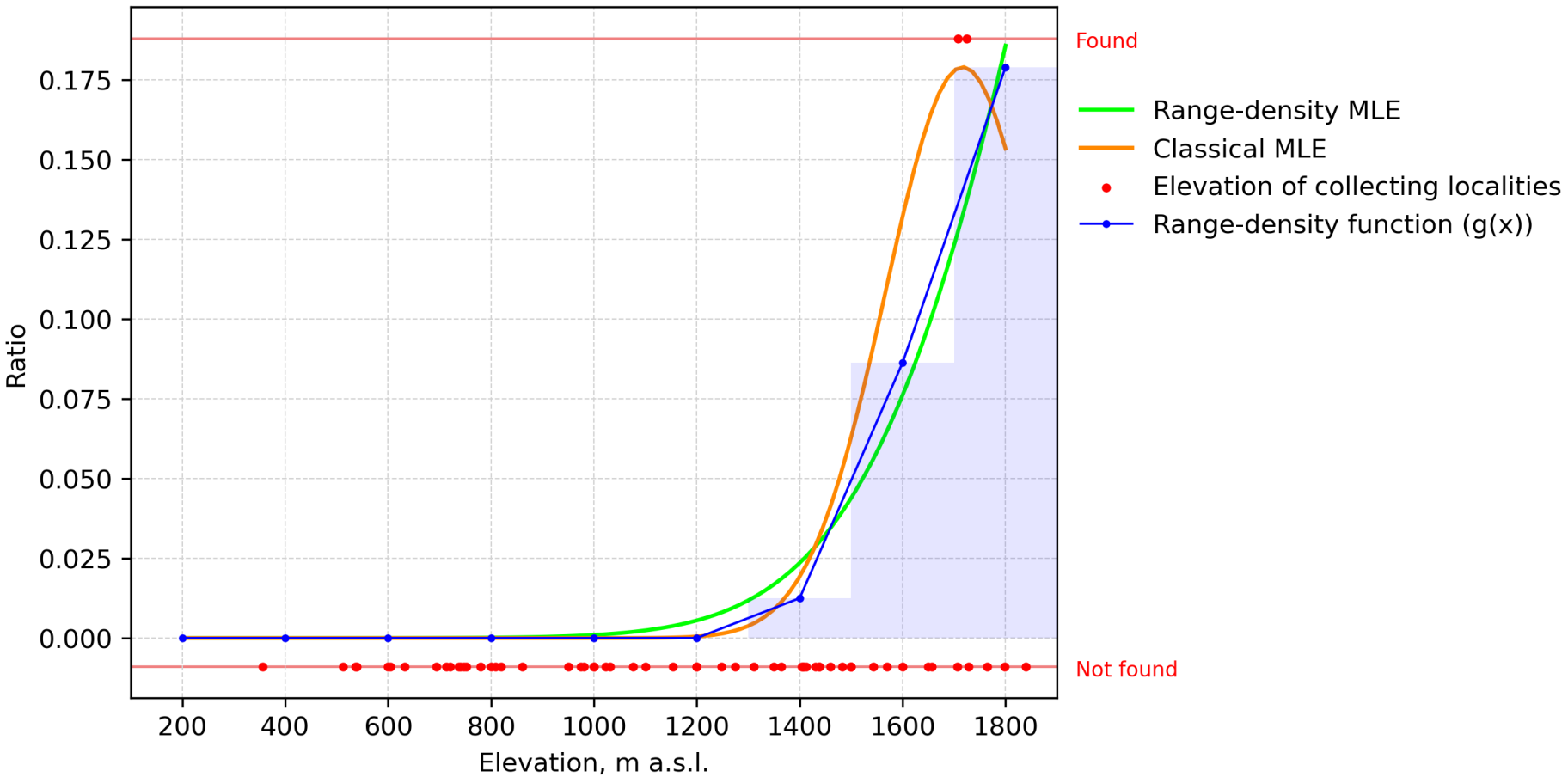


Figure 59. The ratio of the number of occurrences of Lophozia guttulata (Lindb. et Arnell) A.Evans to the number of locations where the research was conducted

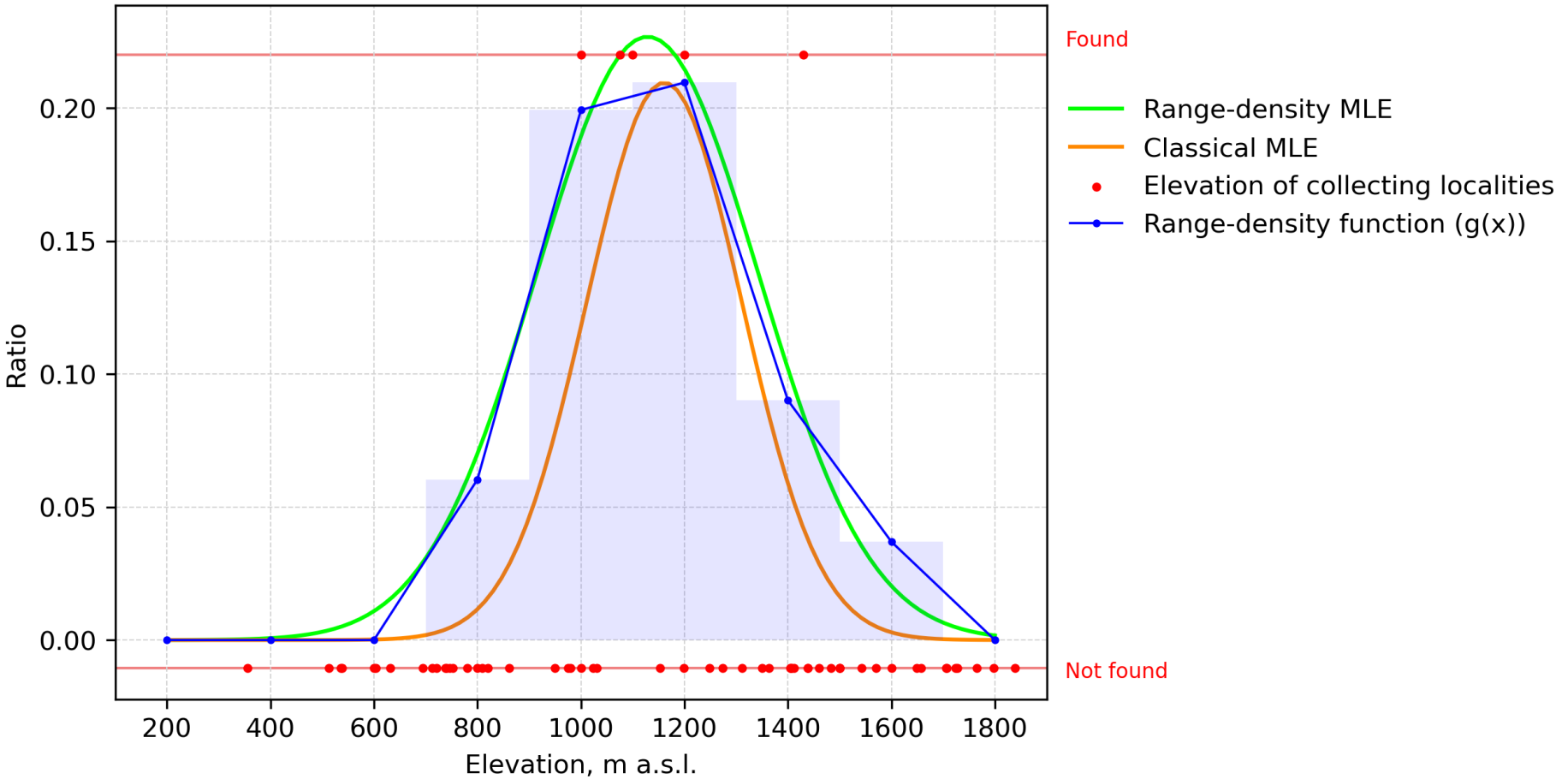


Figure 60. The ratio of the number of occurrences of Lophozia lantratoviae Bakalin to the number of locations where the research was conducted

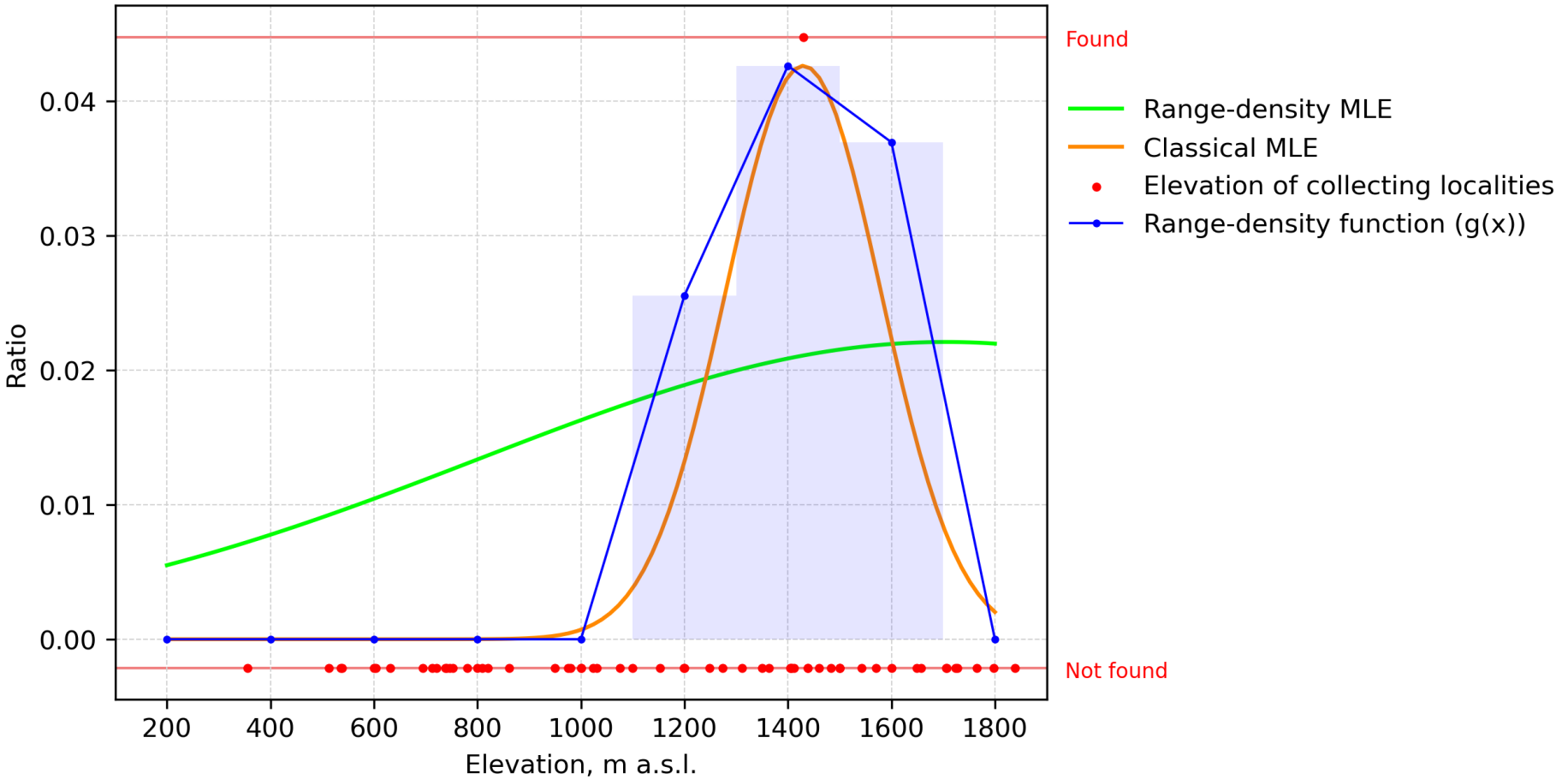


Figure 61. The ratio of the number of occurrences of Lophozia longiflora (Nees) Schiffn to the number of locations where the research was conducted

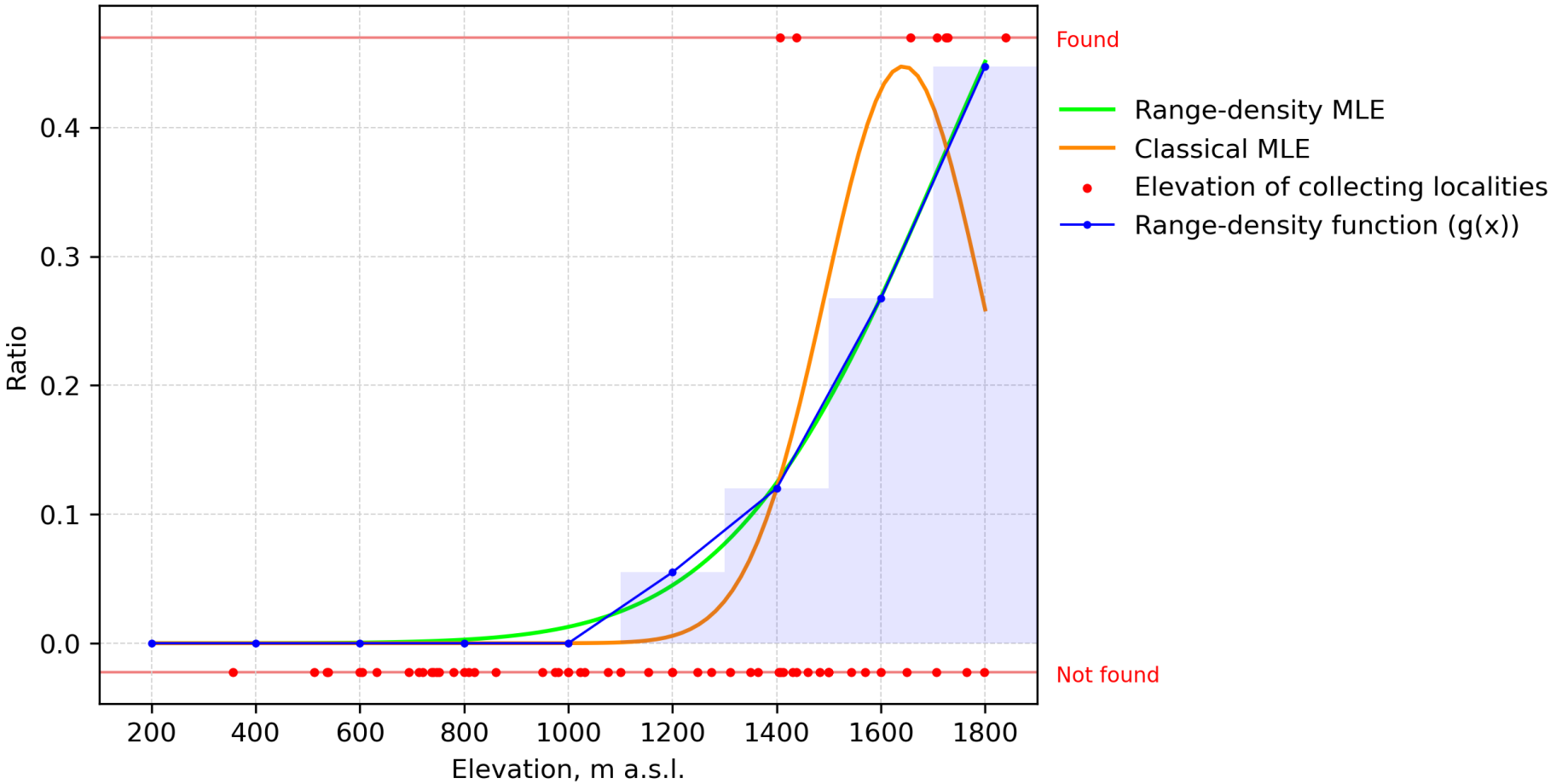


Figure 62. The ratio of the number of occurrences of Lophozia silvicola H.Buch to the number of locations where the research was conducted

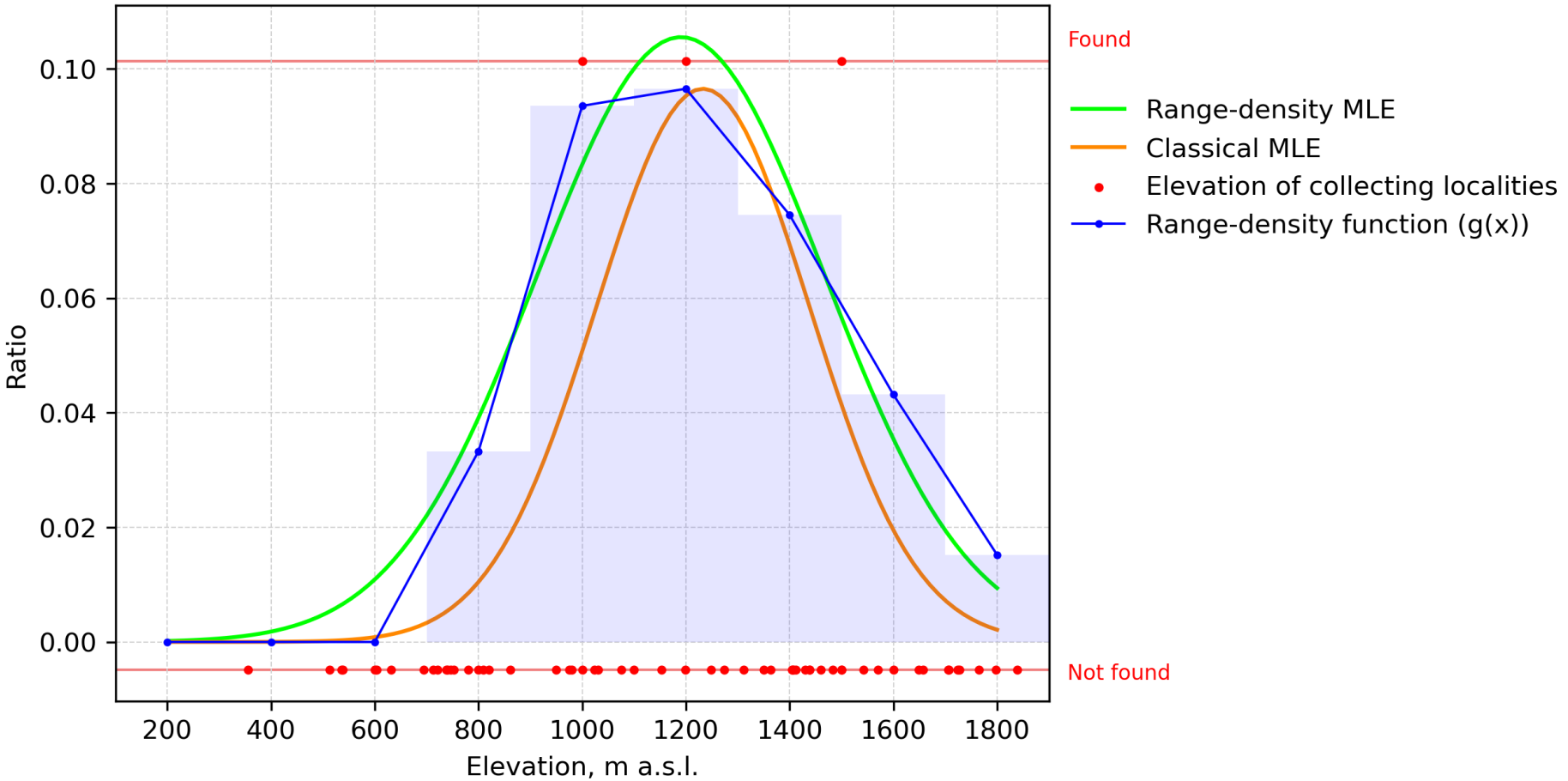


Figure 63. The ratio of the number of occurrences of Lophozia silvicoloides N.Kitag to the number of locations where the research was conducted

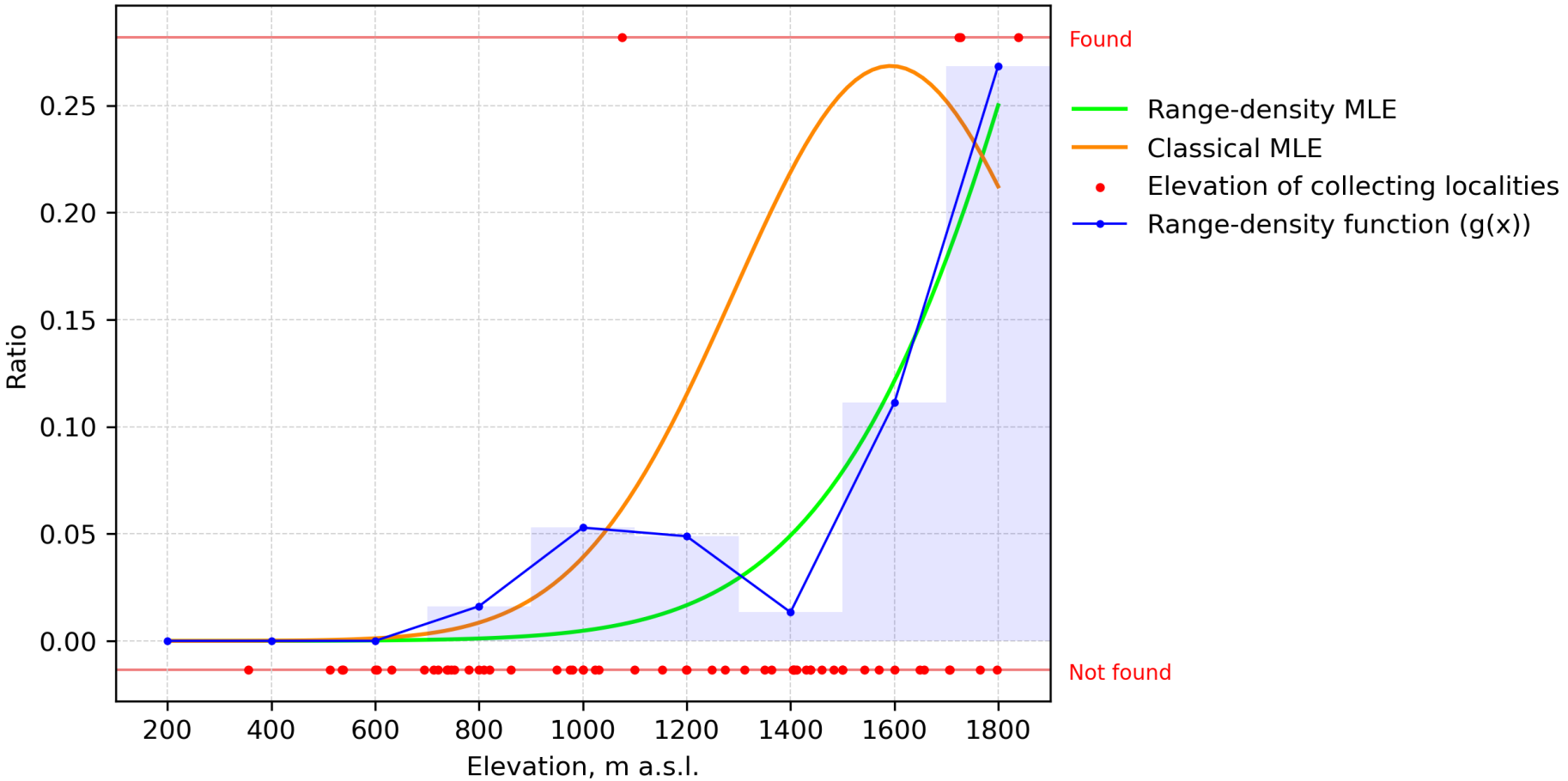


Figure 64. The ratio of the number of occurrences of Lophozia ventricosa (Dicks.) Dumort to the number of locations where the research was conducted

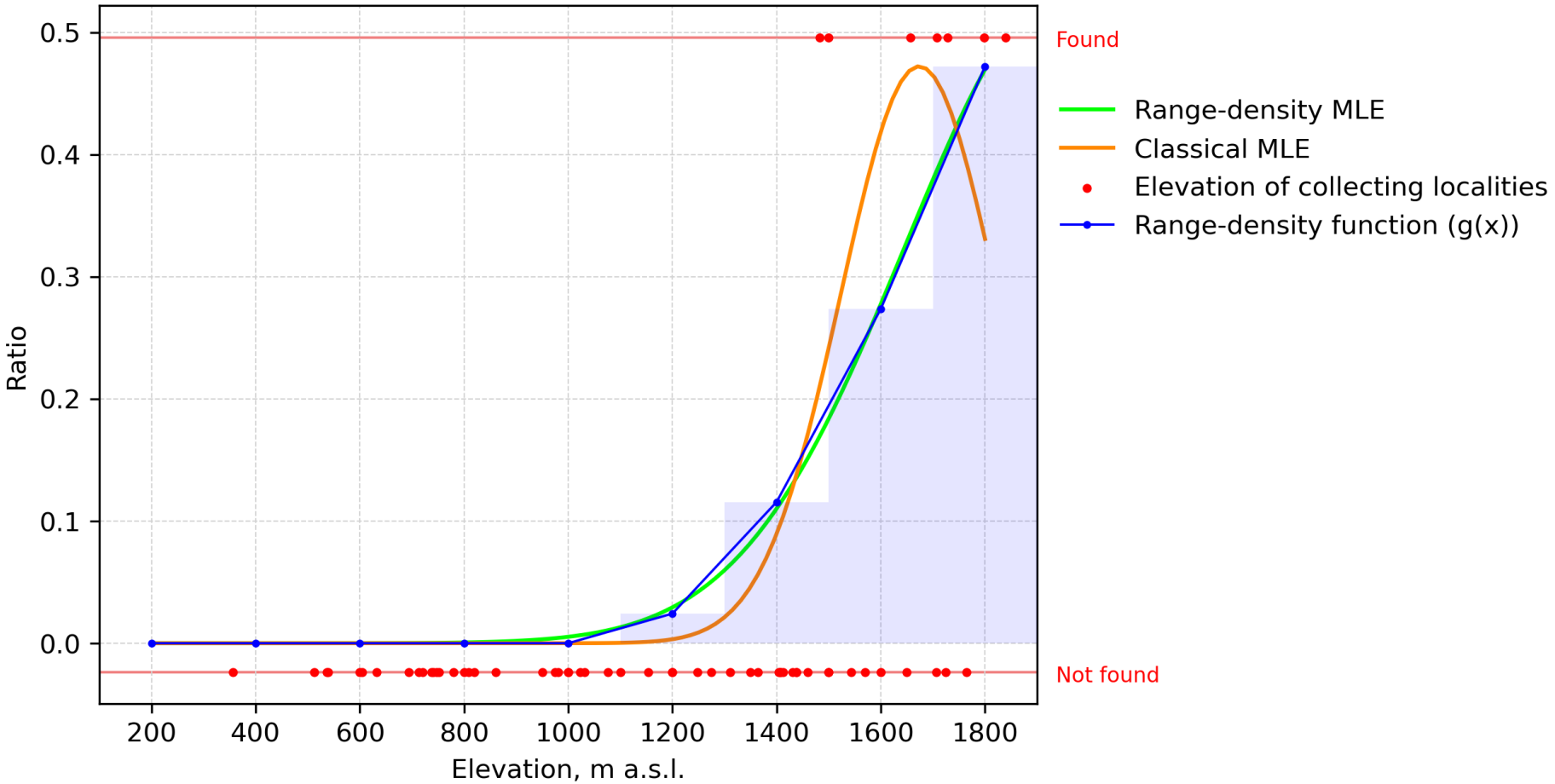


Figure 65. The ratio of the number of occurrences of Lophoziopsis excisa (Dicks.) Konstant. et Vilnet var. exisa to the number of locations where the research was conducted

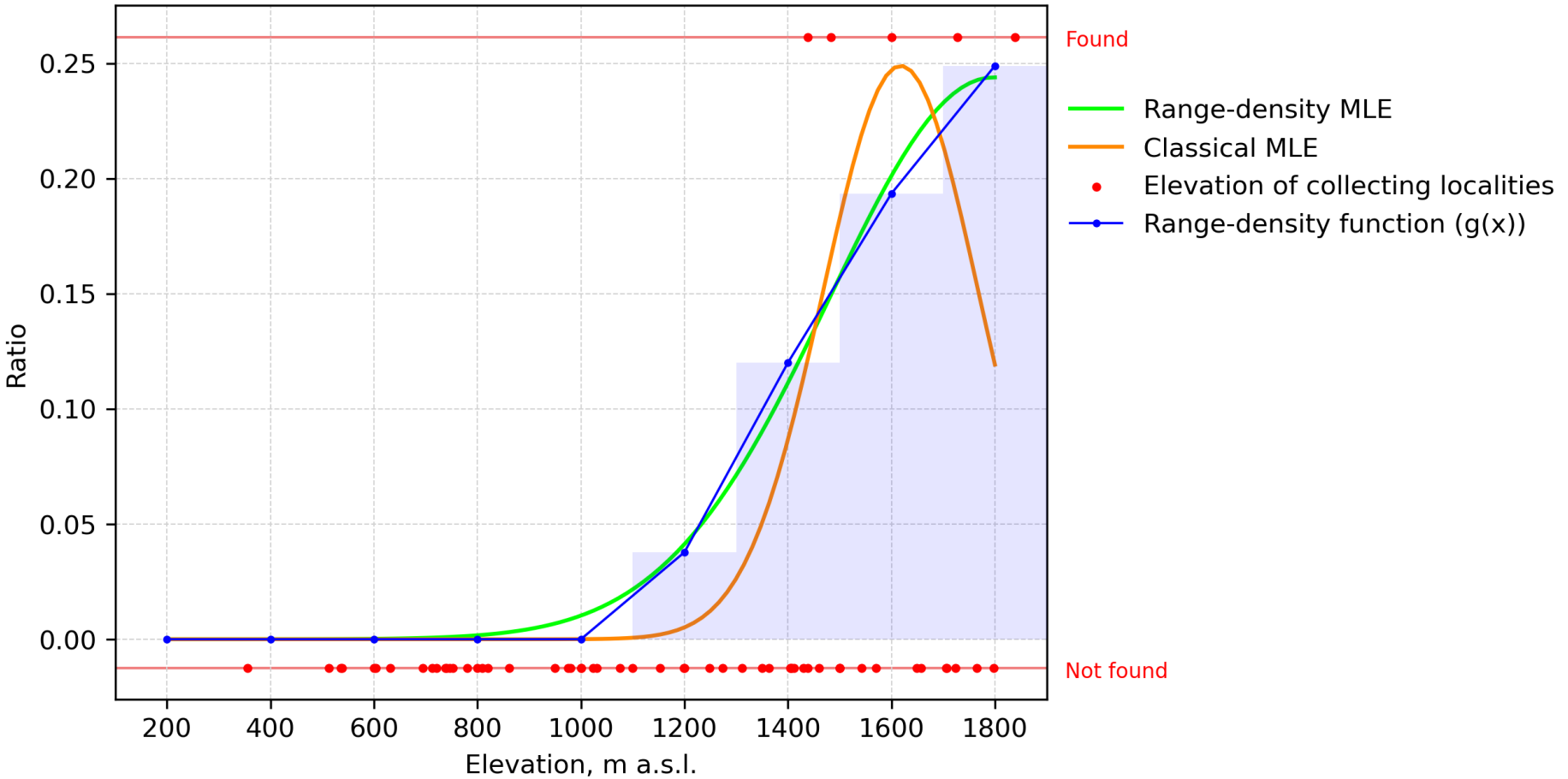


Figure 66. The ratio of the number of occurrences of Lophoziopsis longidens (Lindb.) Konstant. et Vilnet subsp. longidens to the number of locations where the research was conducted

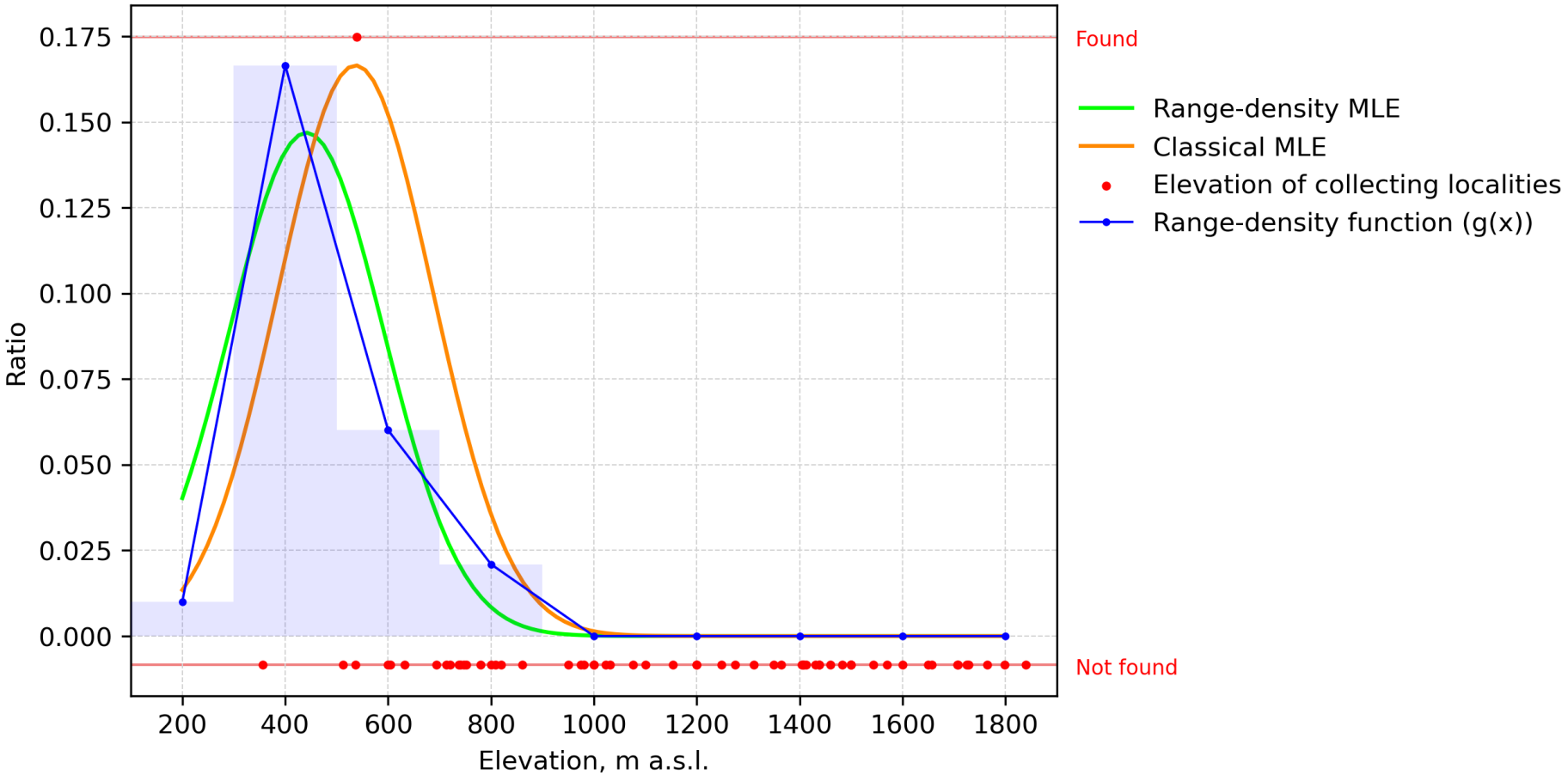


Figure 67. The ratio of the number of occurrences of Marchantia alpestris (Nees) Burgeff to the number of locations where the research was conducted

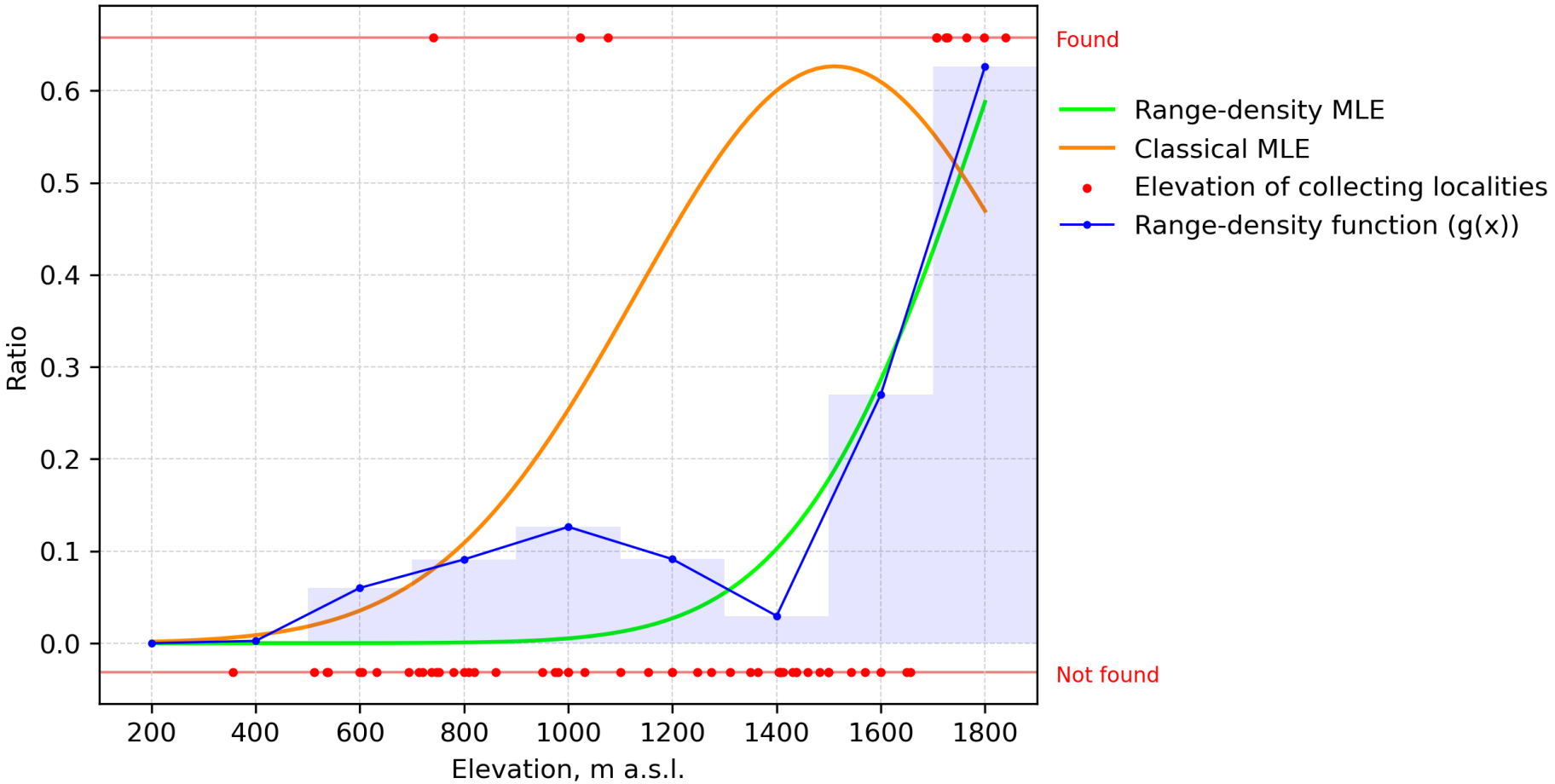


Figure 68. The ratio of the number of occurrences of Marsupella emarginata (Ehrh.) Dumort to the number of locations where the research was conducted

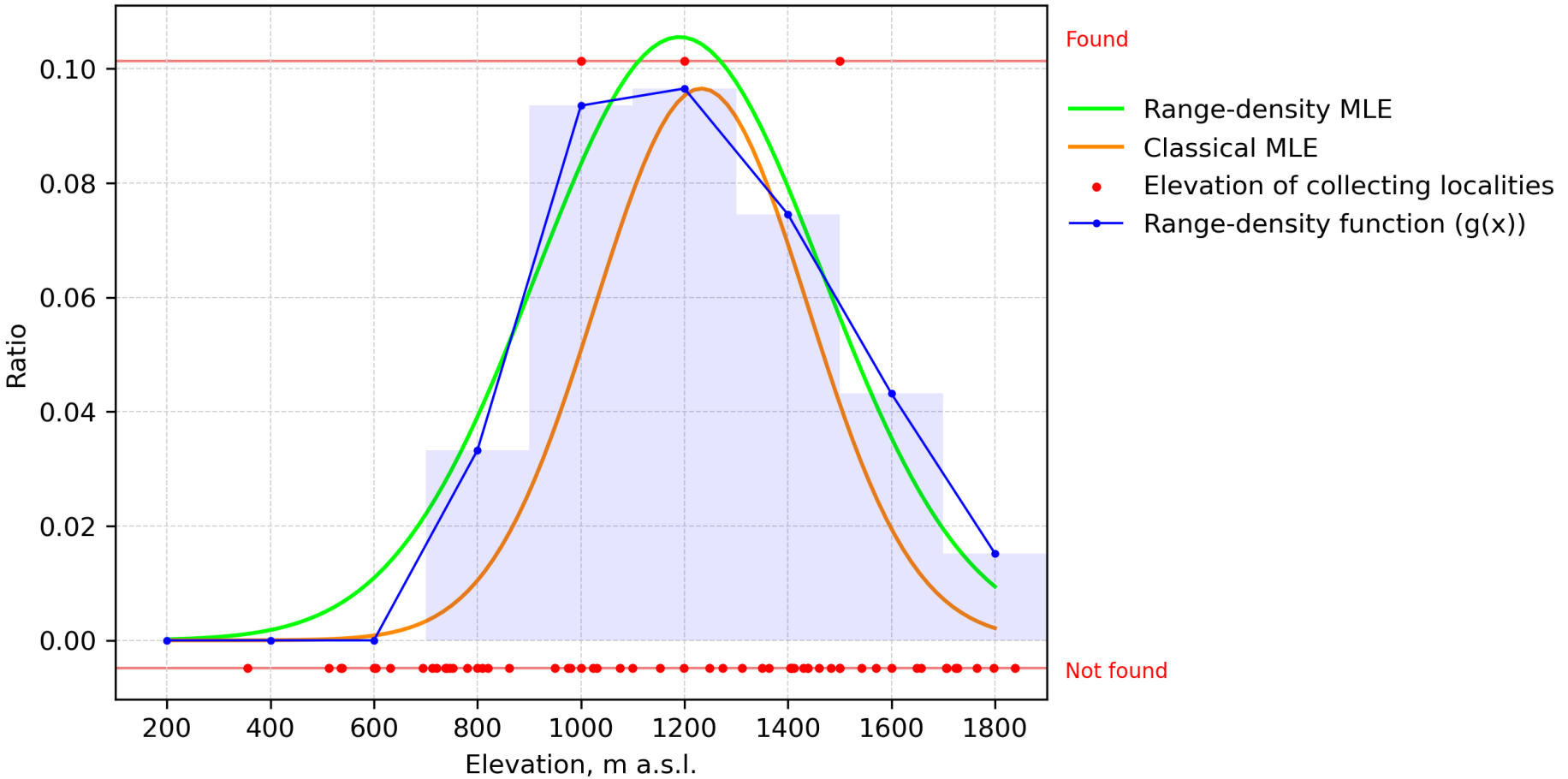


Figure 69. The ratio of the number of occurrences of Marsupella tubulosa Steph to the number of locations where the research was conducted

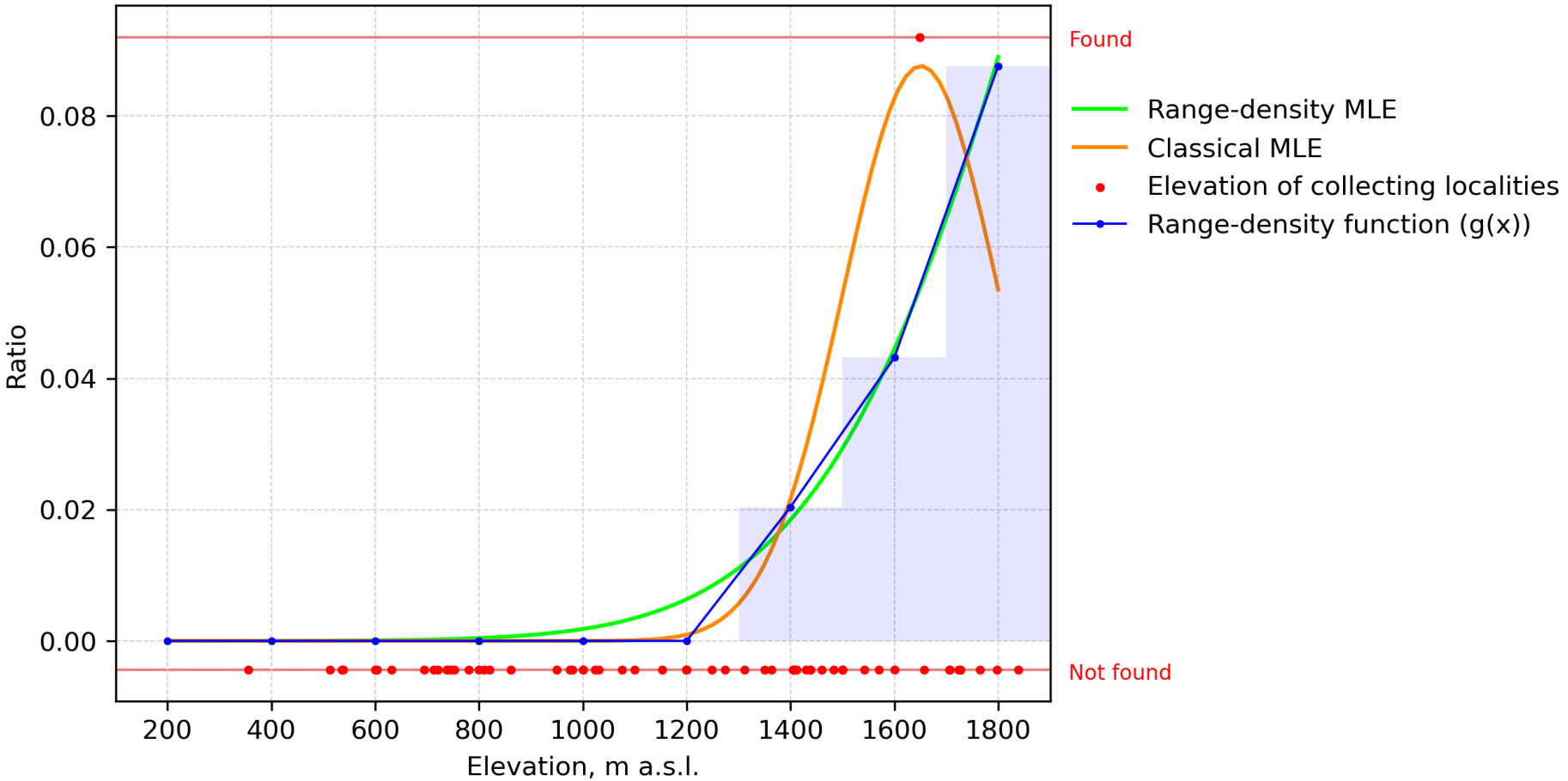


Figure 70. The ratio of the number of occurrences of Mesoptychia heterocolpos (Thed. ex Hartm.) L.Söderstr. et Vá■a to the number of locations where the research was conducted

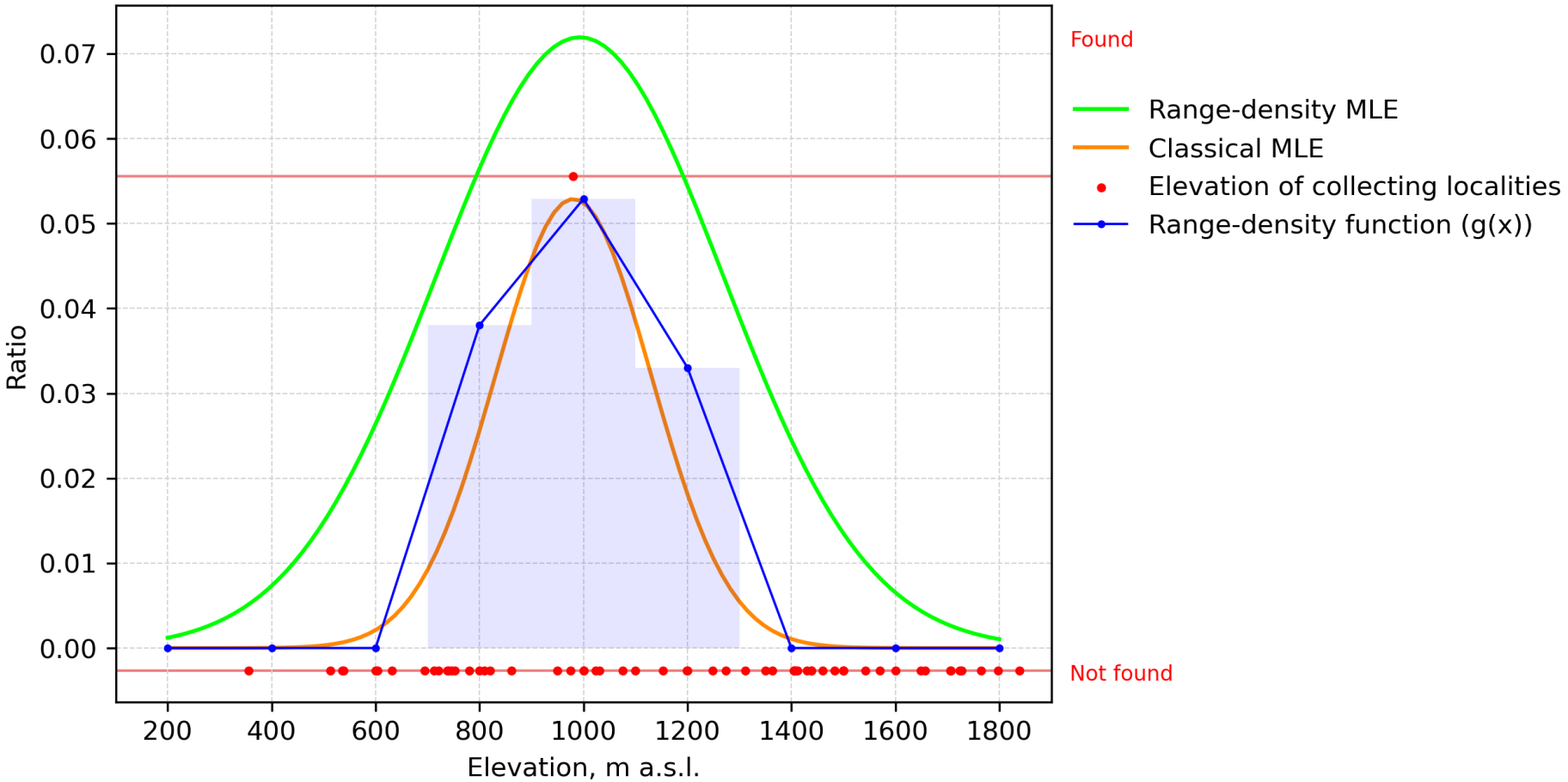


Figure 71. The ratio of the number of occurrences of Mesoptychia ussuriensis (Bakalin) L.Söderstr. et Vá■a to the number of locations where the research was conducted

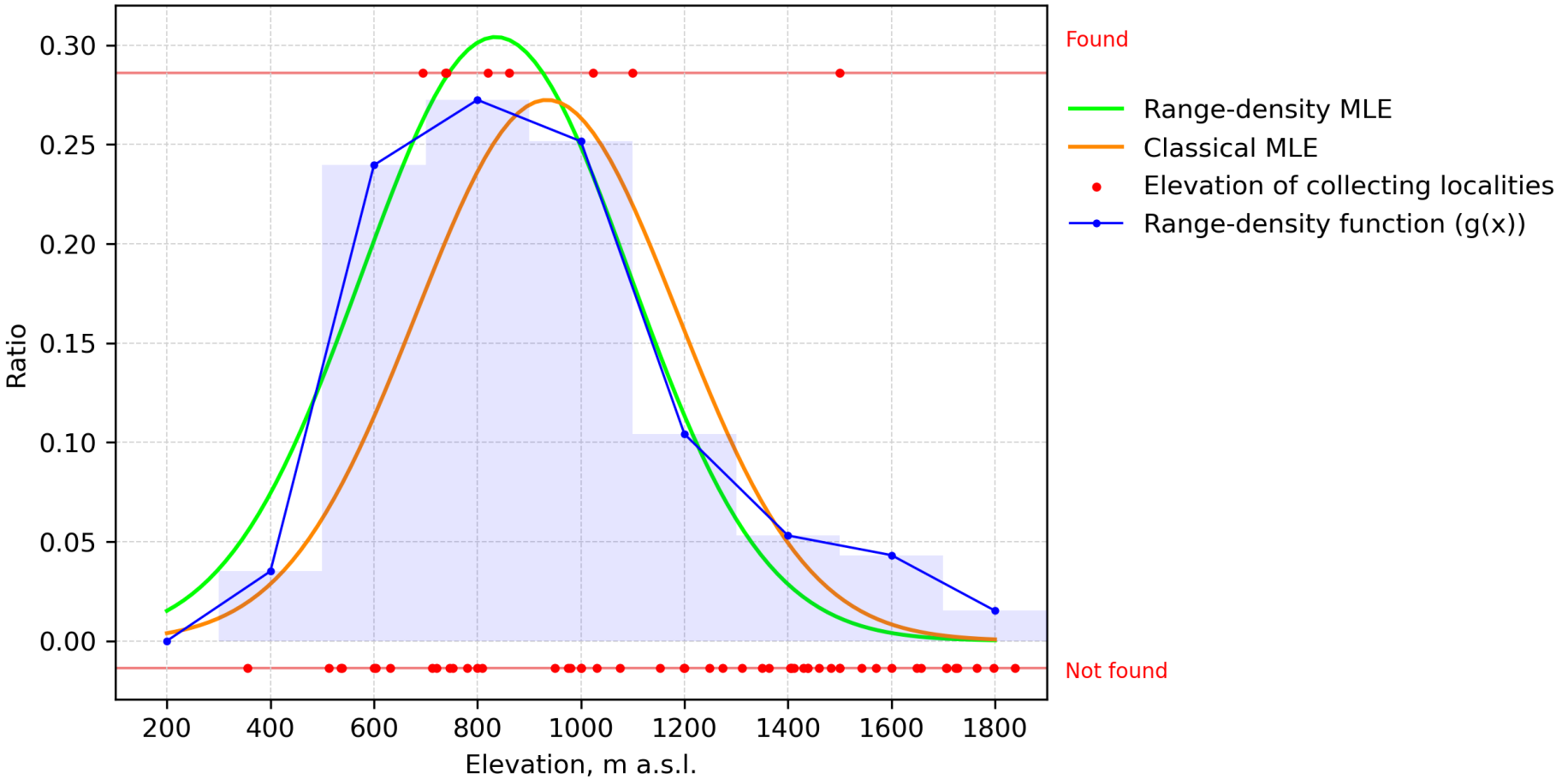


Figure 72. The ratio of the number of occurrences of Metacalypogeia cordifolia (Steph.) Inoue to the number of locations where the research was conducted

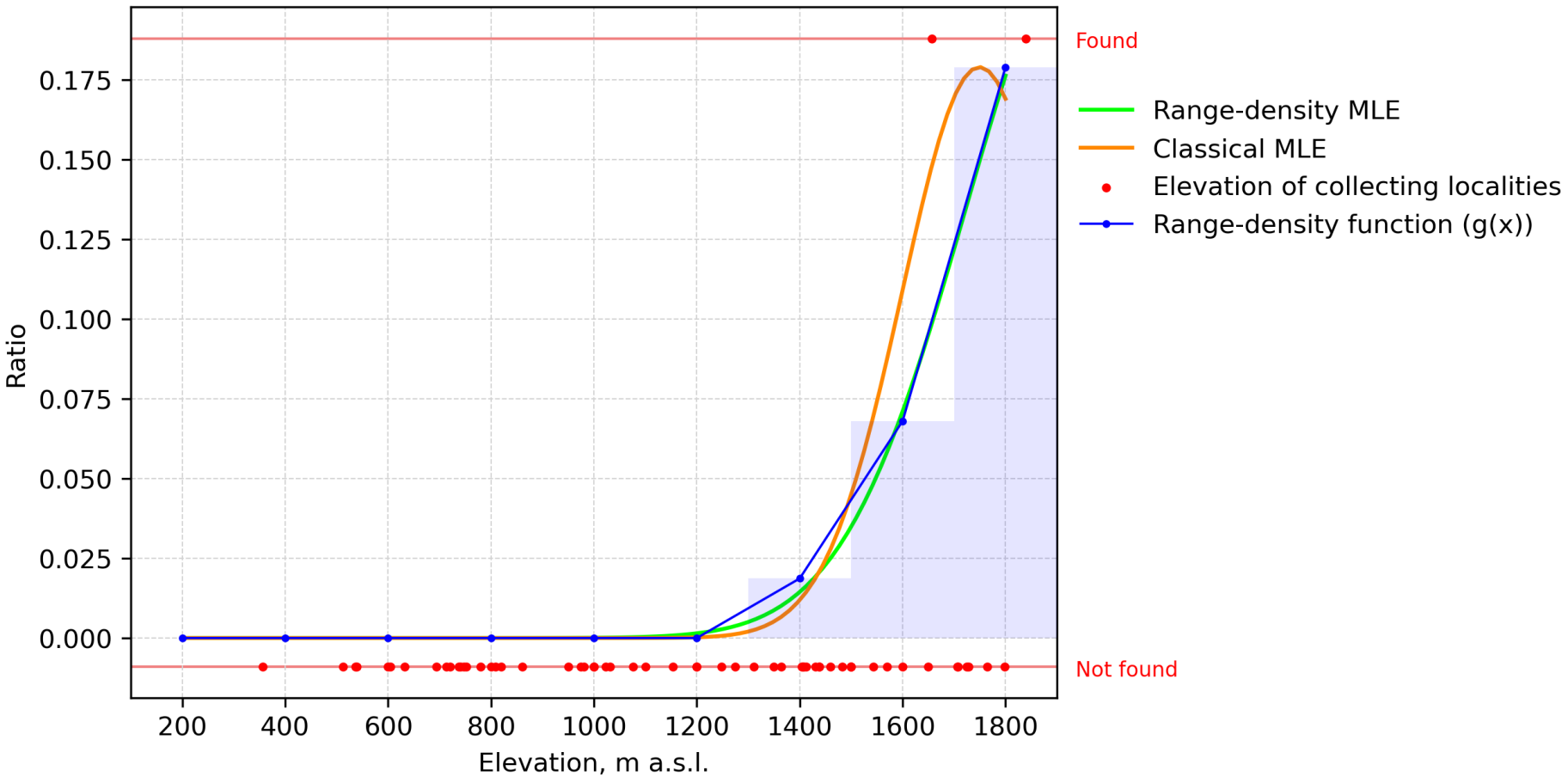


Figure 73. The ratio of the number of occurrences of Metzgeria furcata (L.) Dumort to the number of locations where the research was conducted

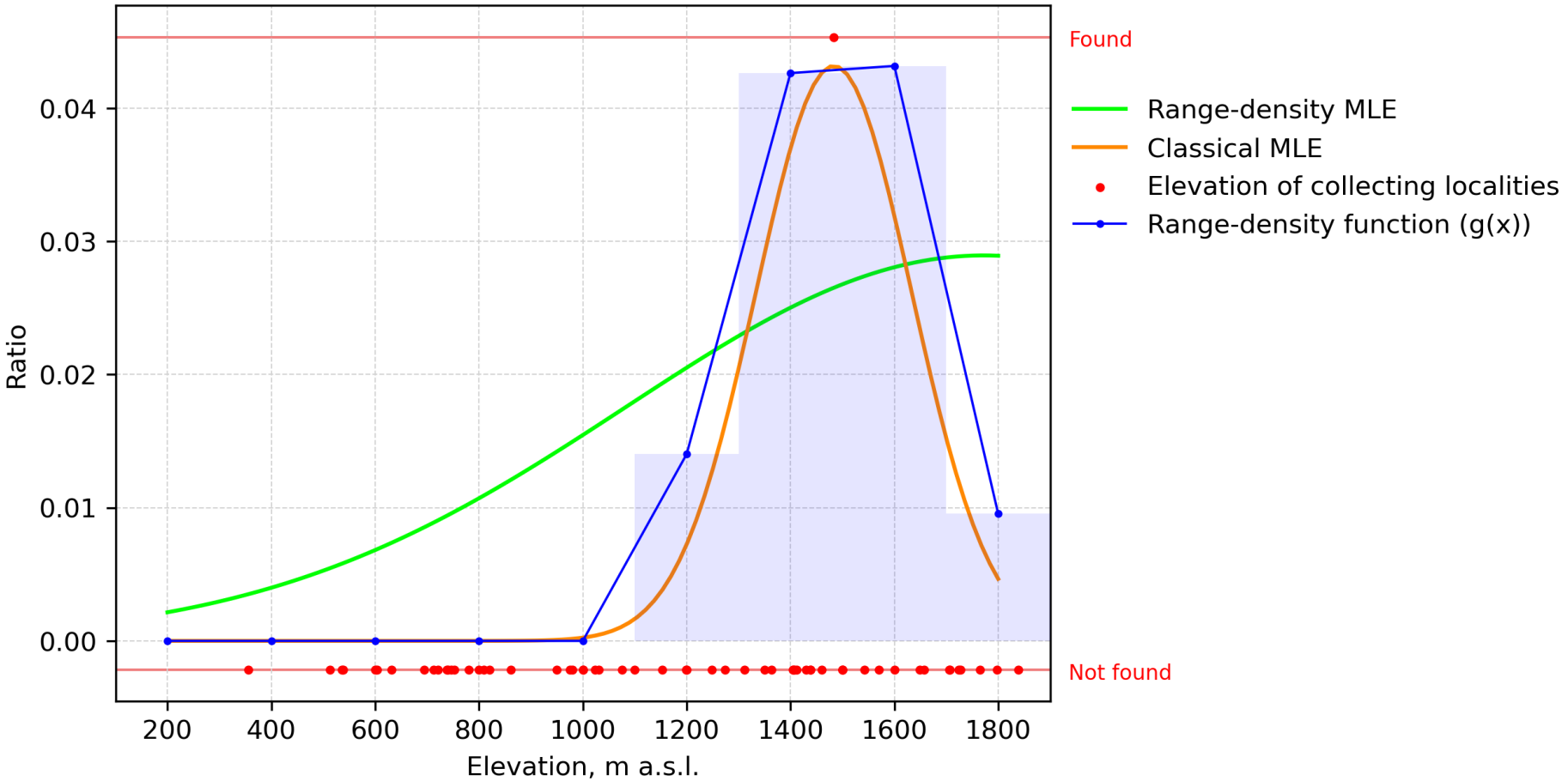


Figure 74. The ratio of the number of occurrences of Metzgeria furcata var. ulvula (Nees) Gottsche, Lindenb. & Nees to the number of locations where the research was conducted

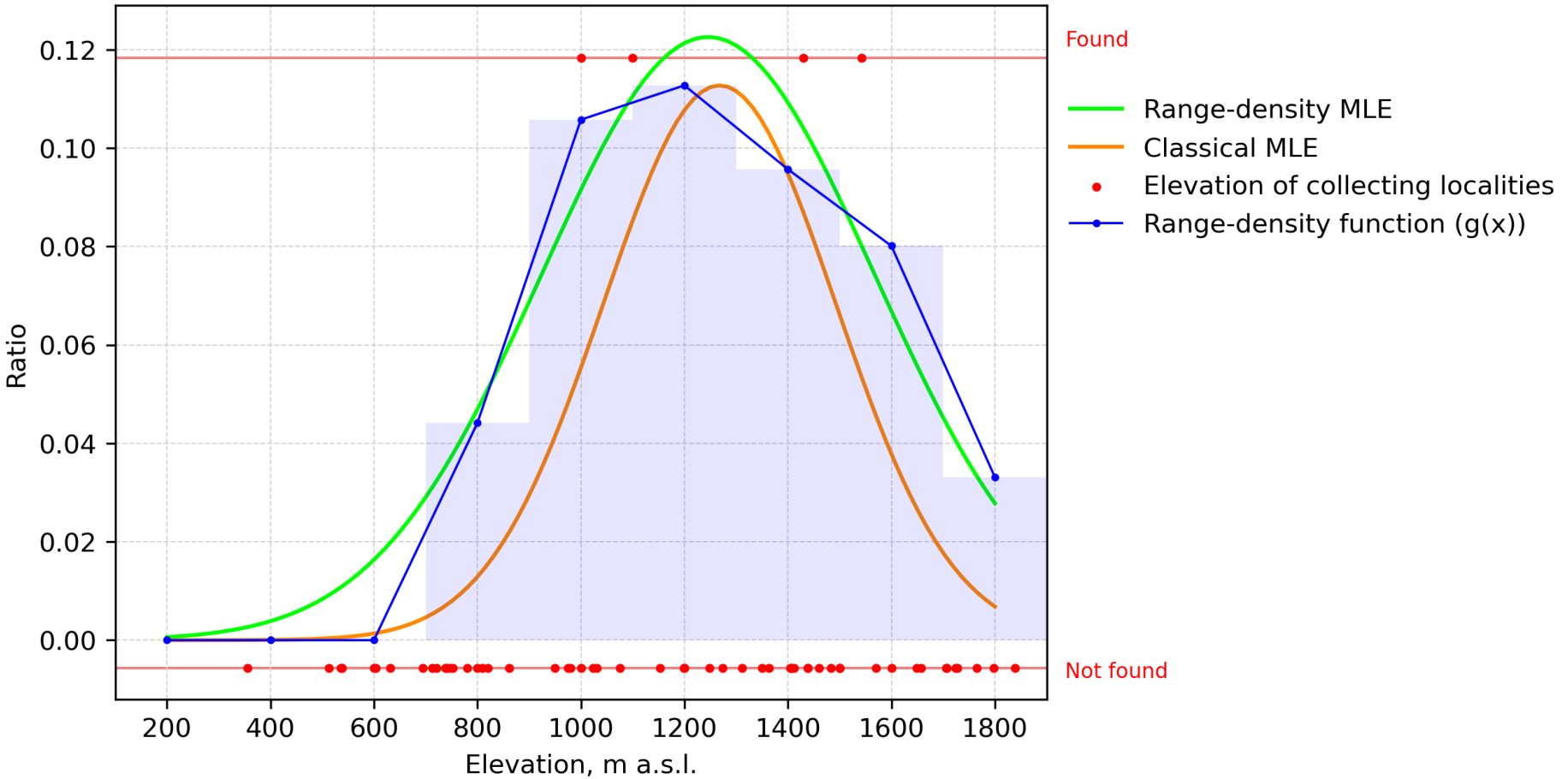


Figure 75. The ratio of the number of occurrences of Metzgeria lindbergii Schiffn to the number of locations where the research was conducted

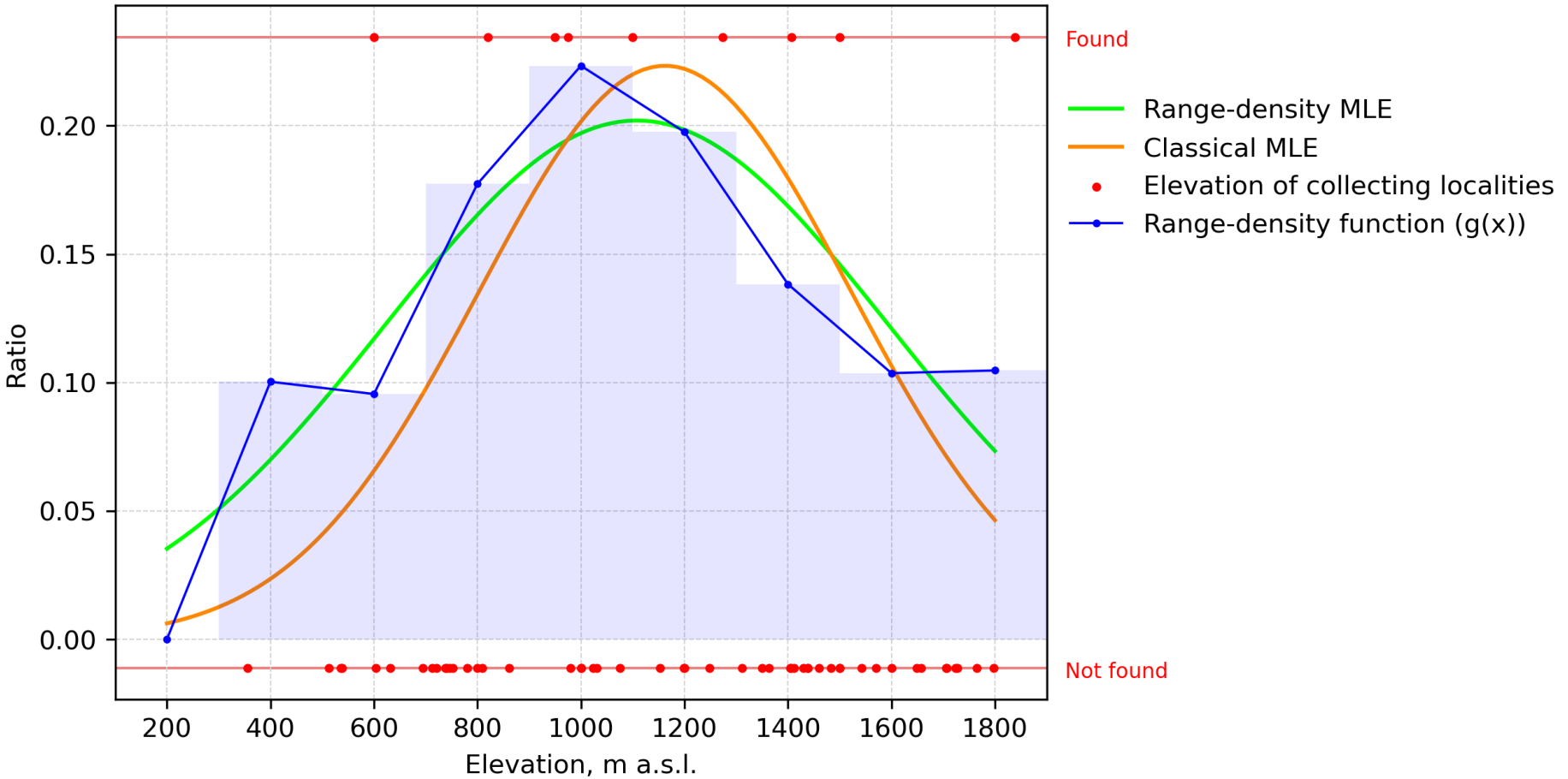


Figure 76. The ratio of the number of occurrences of Metzgeria pubescens (Schrank) Raddi to the number of locations where the research was conducted

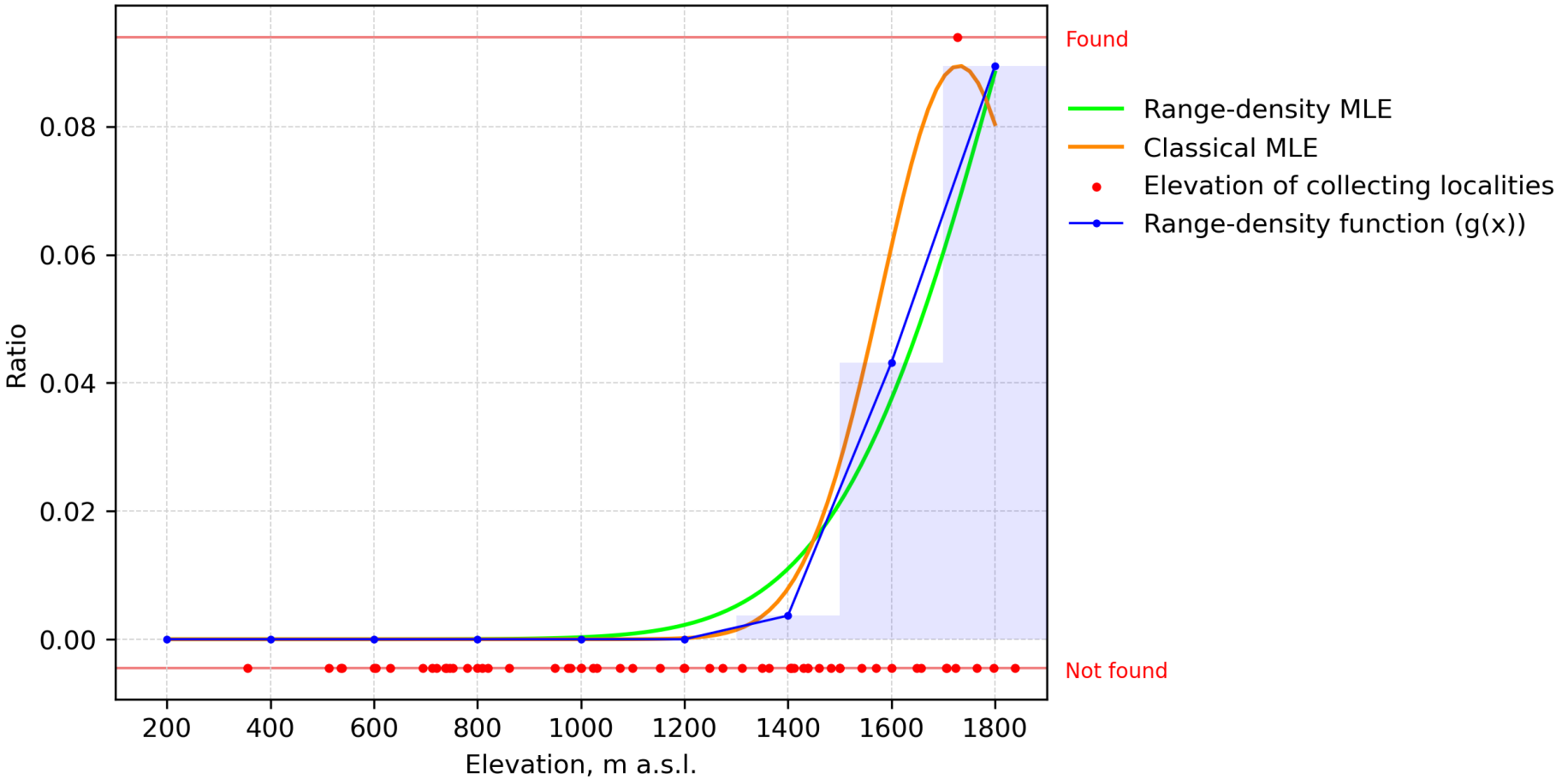


Figure 77. The ratio of the number of occurrences of Metzgeria temperata Kuwah to the number of locations where the research was conducted

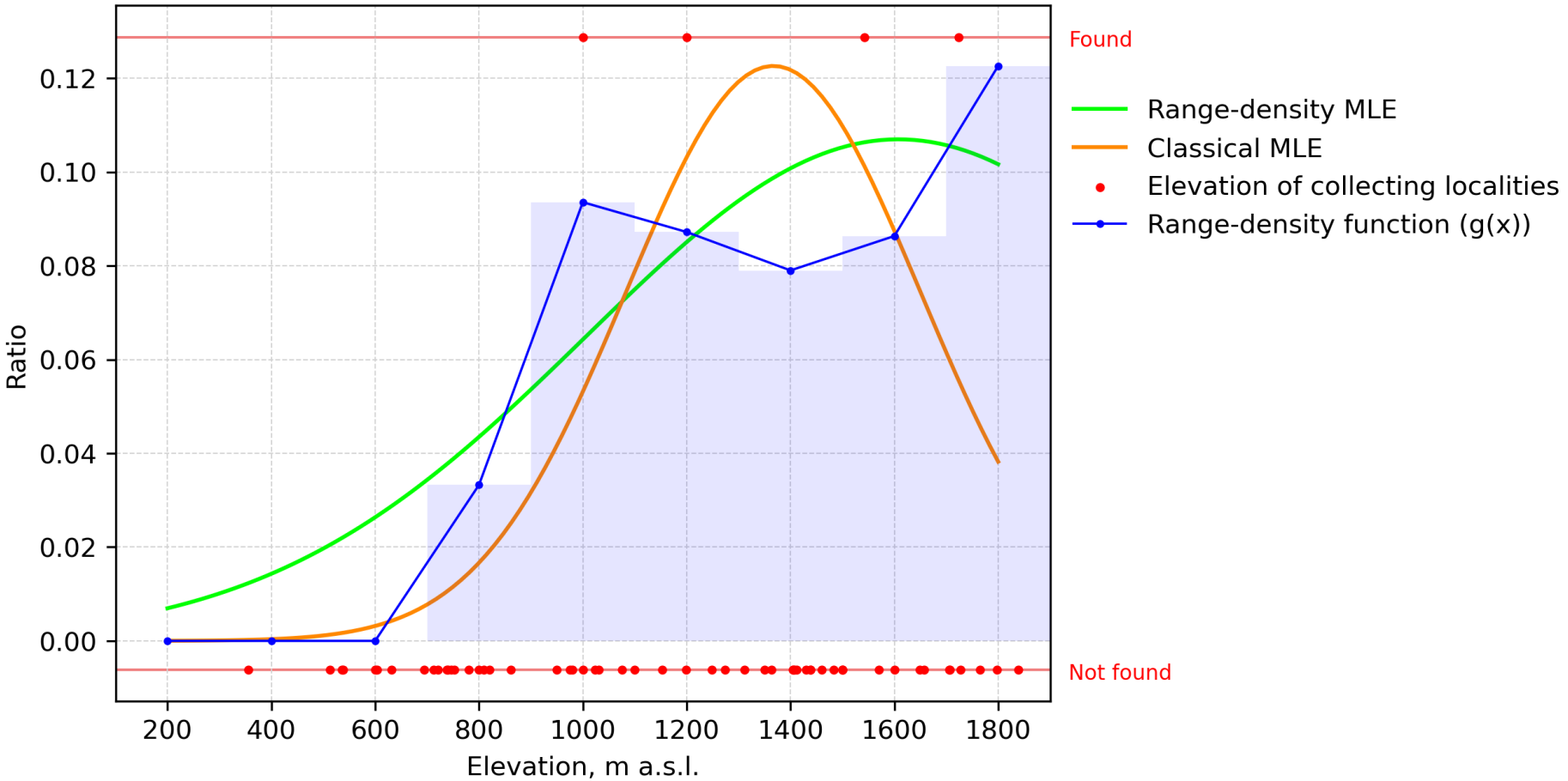


Figure 78. The ratio of the number of occurrences of Mylia taylorii (Hook.) Gray to the number of locations where the research was conducted

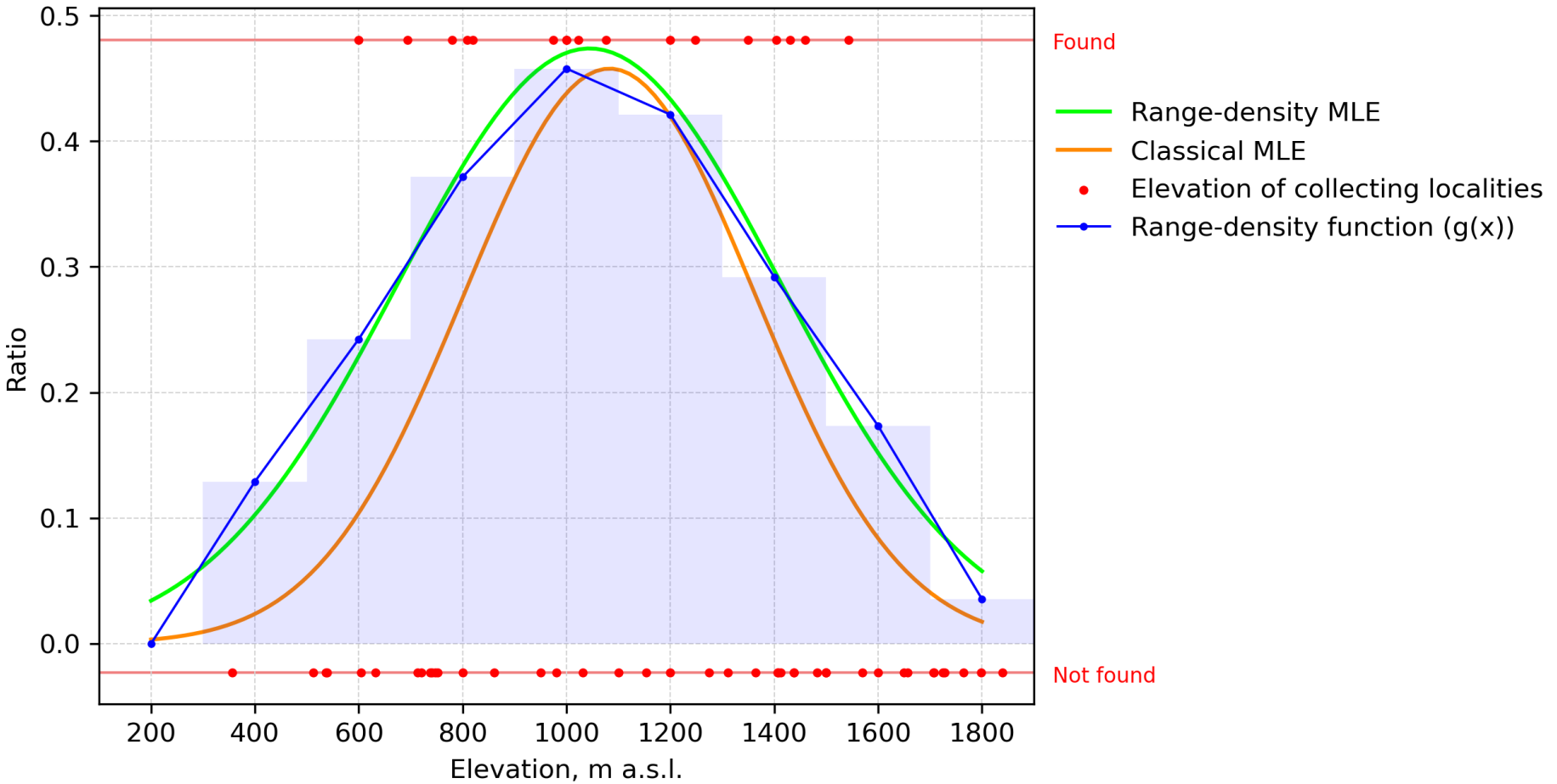


Figure 79. The ratio of the number of occurrences of Mylia verrucosa Lindb to the number of locations where the research was conducted

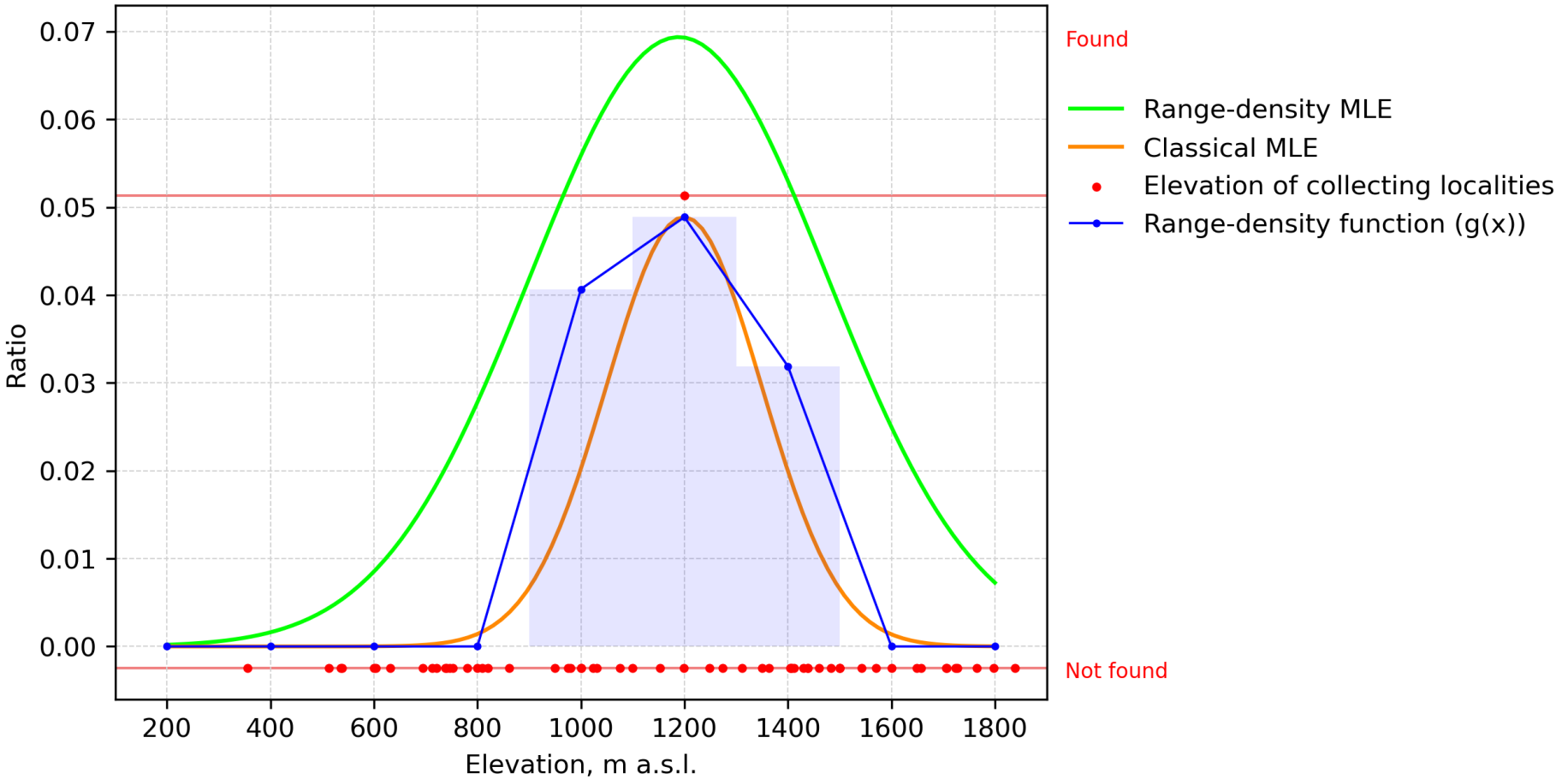


Figure 80. The ratio of the number of occurrences of Neoorthocaulis attenuatus (Mart.) L.Söderstr., De Roo et Hedd to the number of locations where the research was conducted

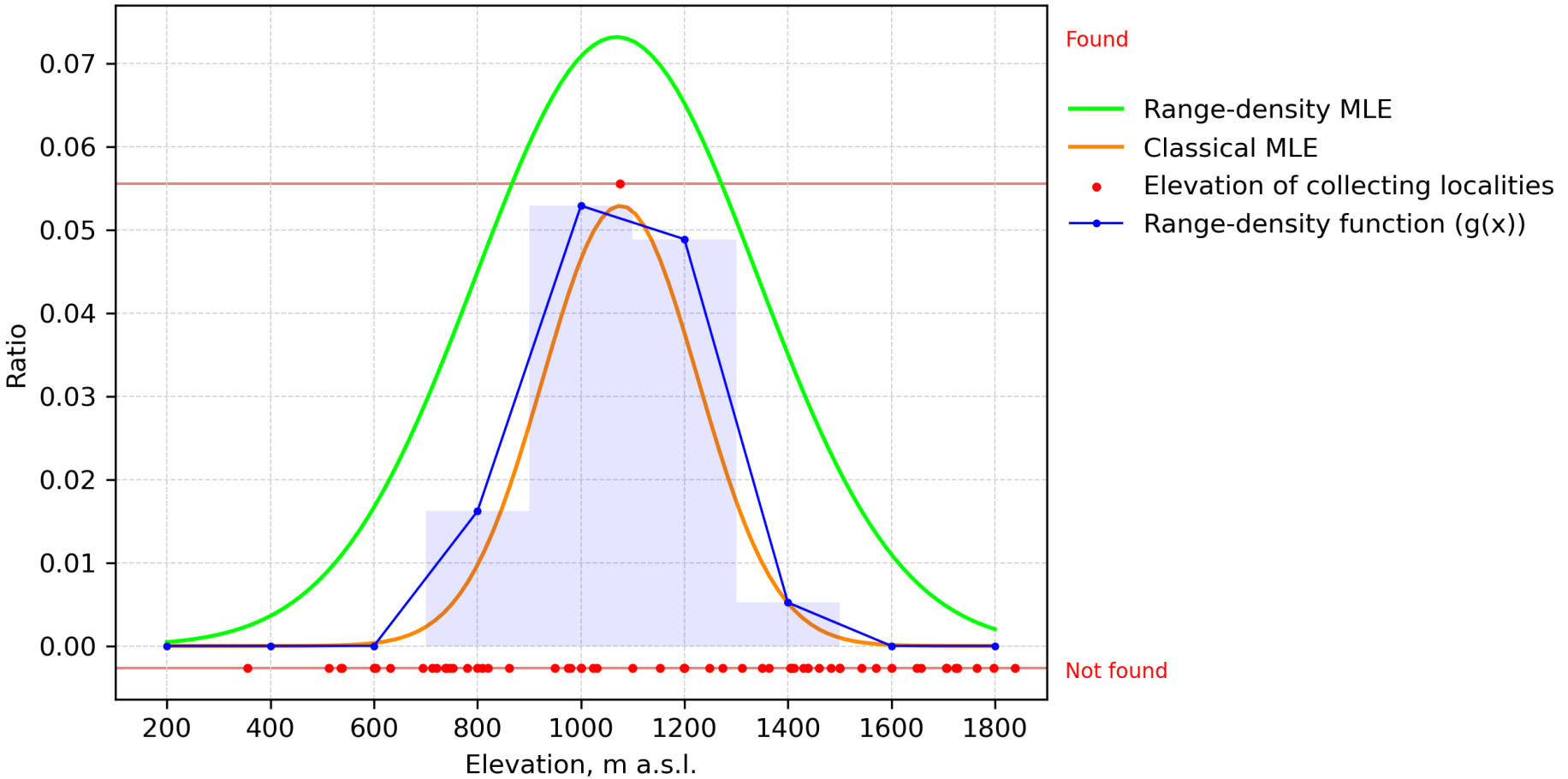


Figure 81. The ratio of the number of occurrences of Nowellia curvifolia (Dicks.) Mitt to the number of locations where the research was conducted

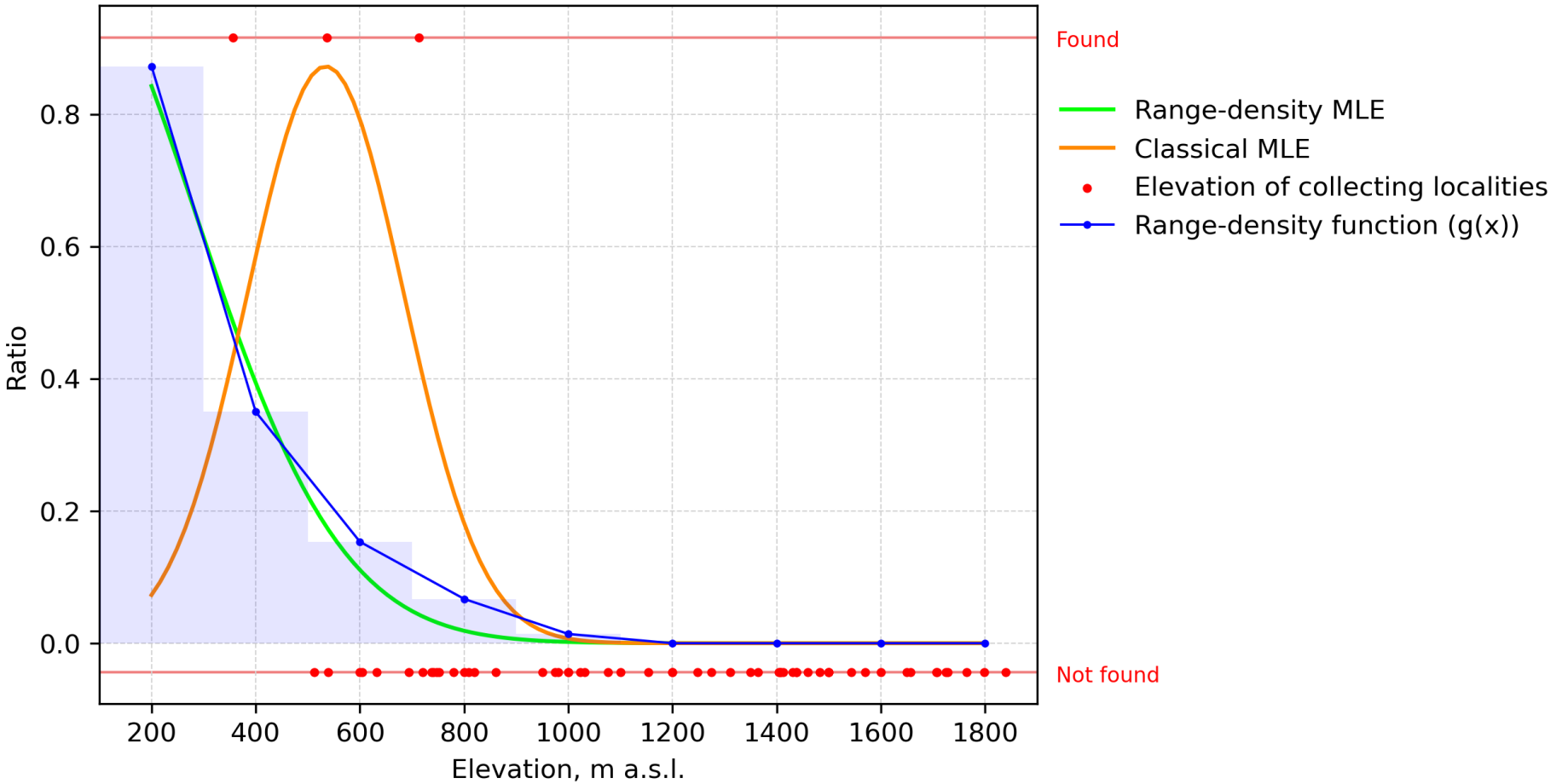


Figure 82. The ratio of the number of occurrences of Pedinophyllum truncatum (Steph.) Inoue to the number of locations where the research was conducted

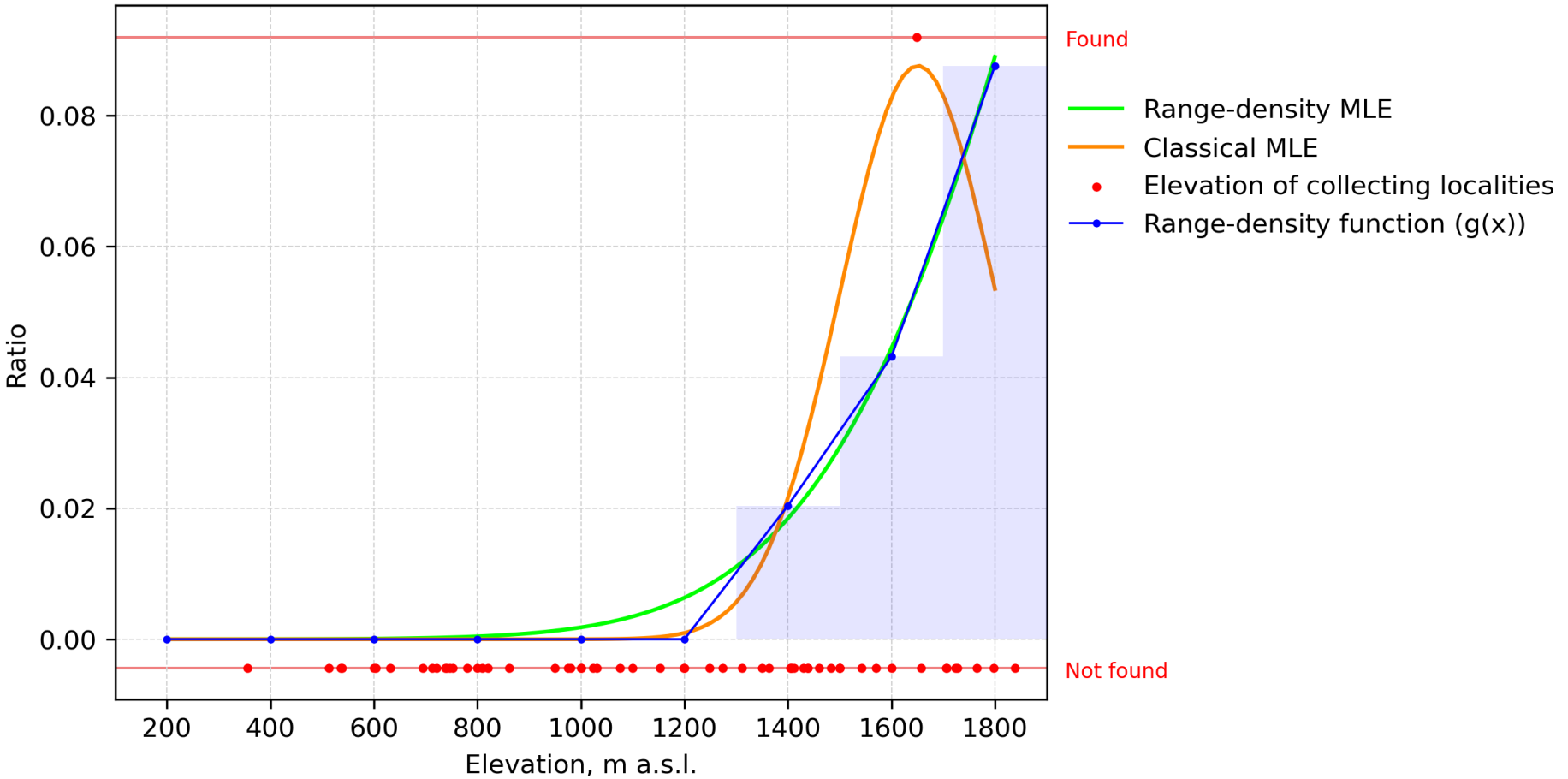


Figure 83. The ratio of the number of occurrences of Pellia neesiana (Gottsche) Limpr to the number of locations where the research was conducted

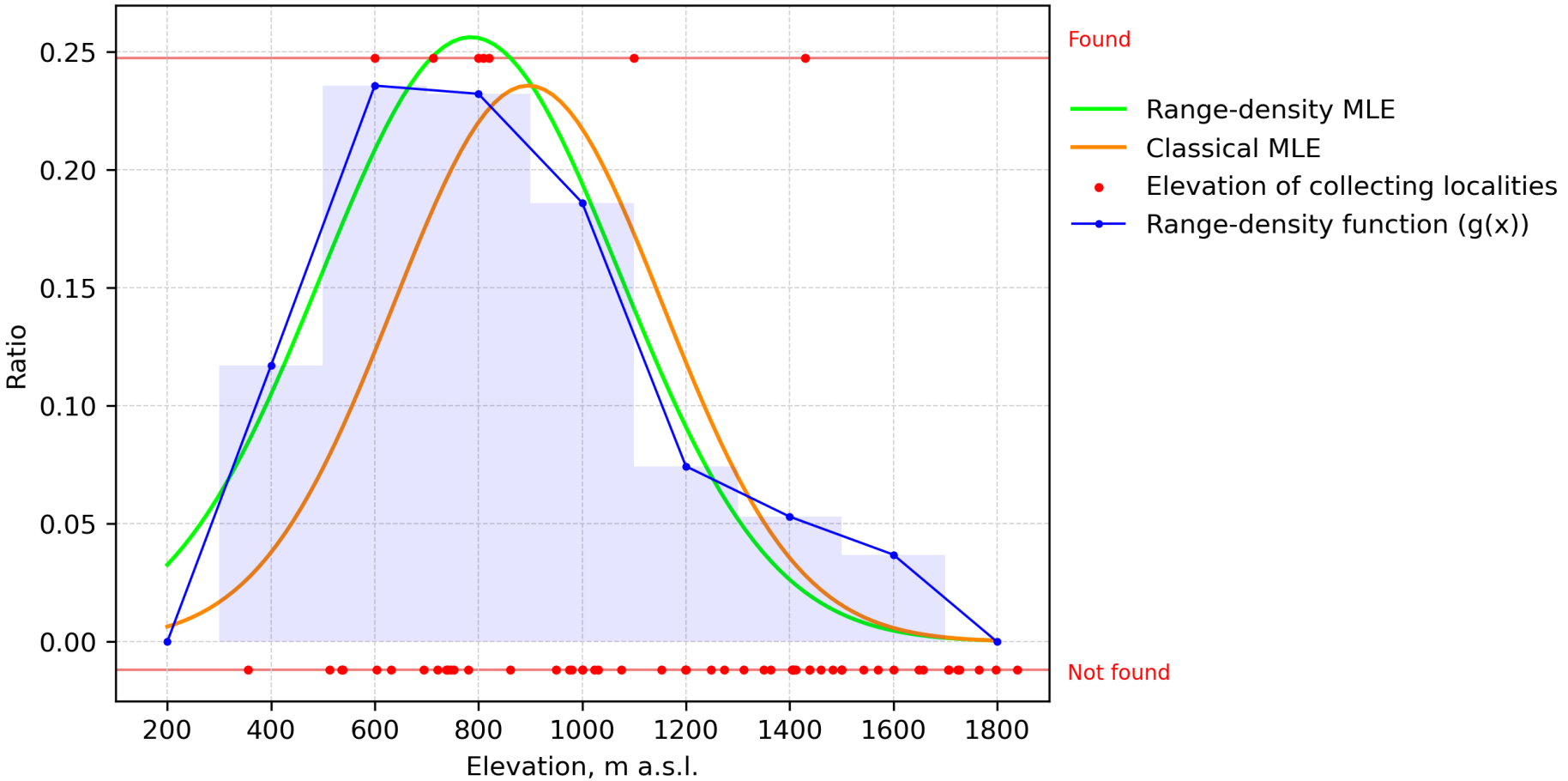


Figure 84. The ratio of the number of occurrences of Plagiochila ovalifolia Mitt to the number of locations where the research was conducted

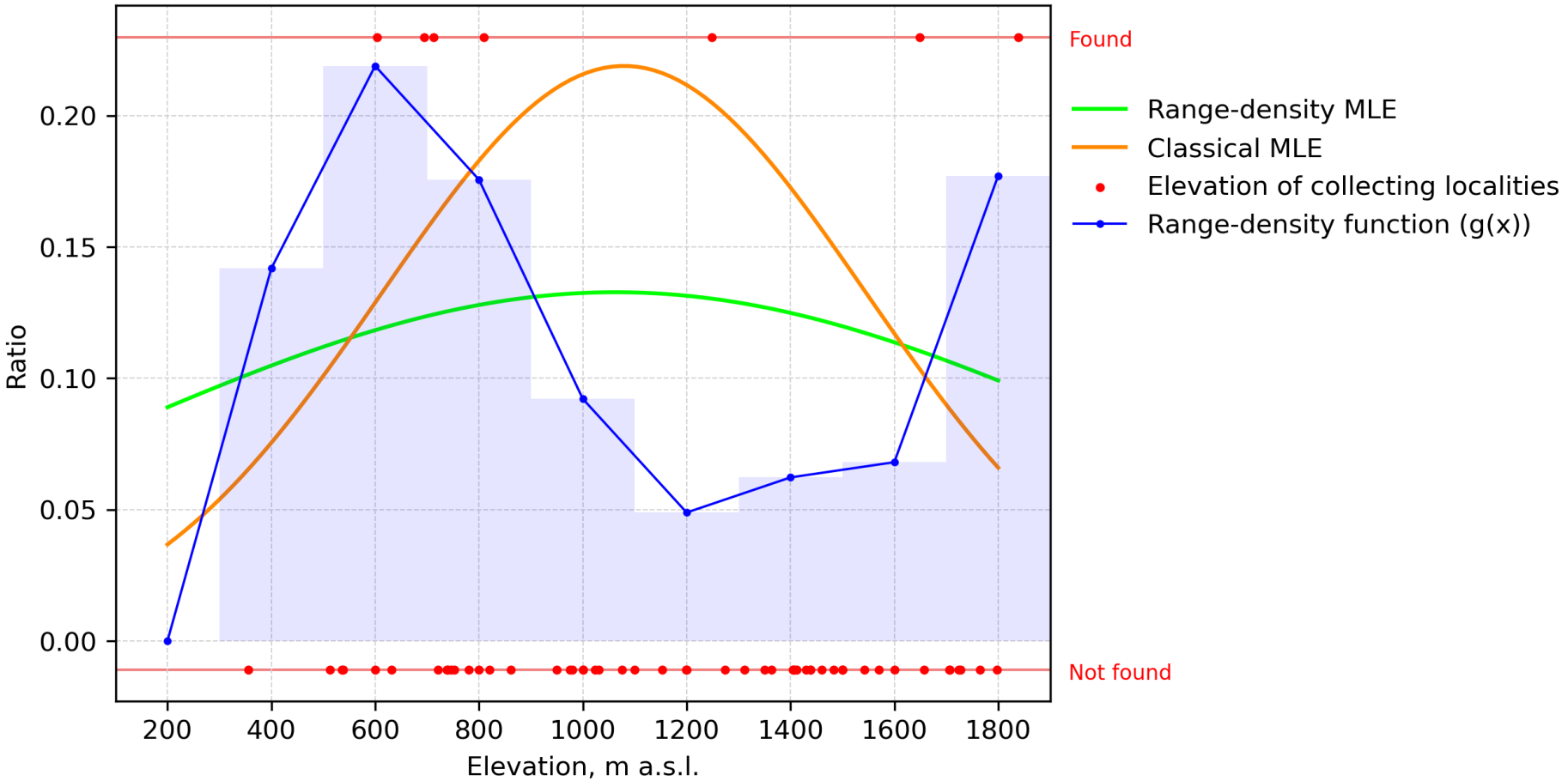


Figure 85. The ratio of the number of occurrences of Plagiochila porelloides (Torr. ex Nees) Lindenb to the number of locations where the research was conducted

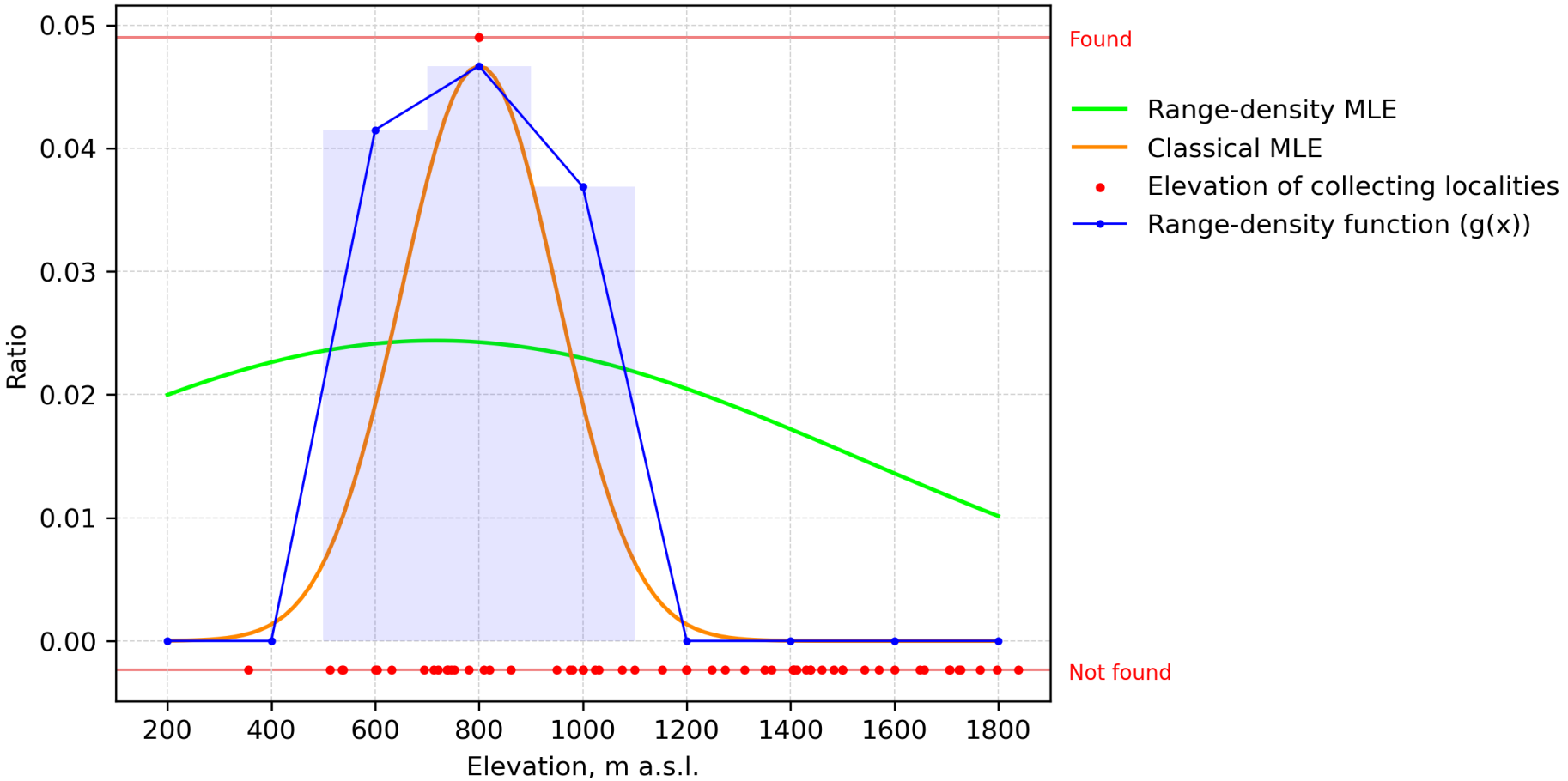


Figure 86. The ratio of the number of occurrences of Plectocolea infusca Mitt. var. infusca to the number of locations where the research was conducted

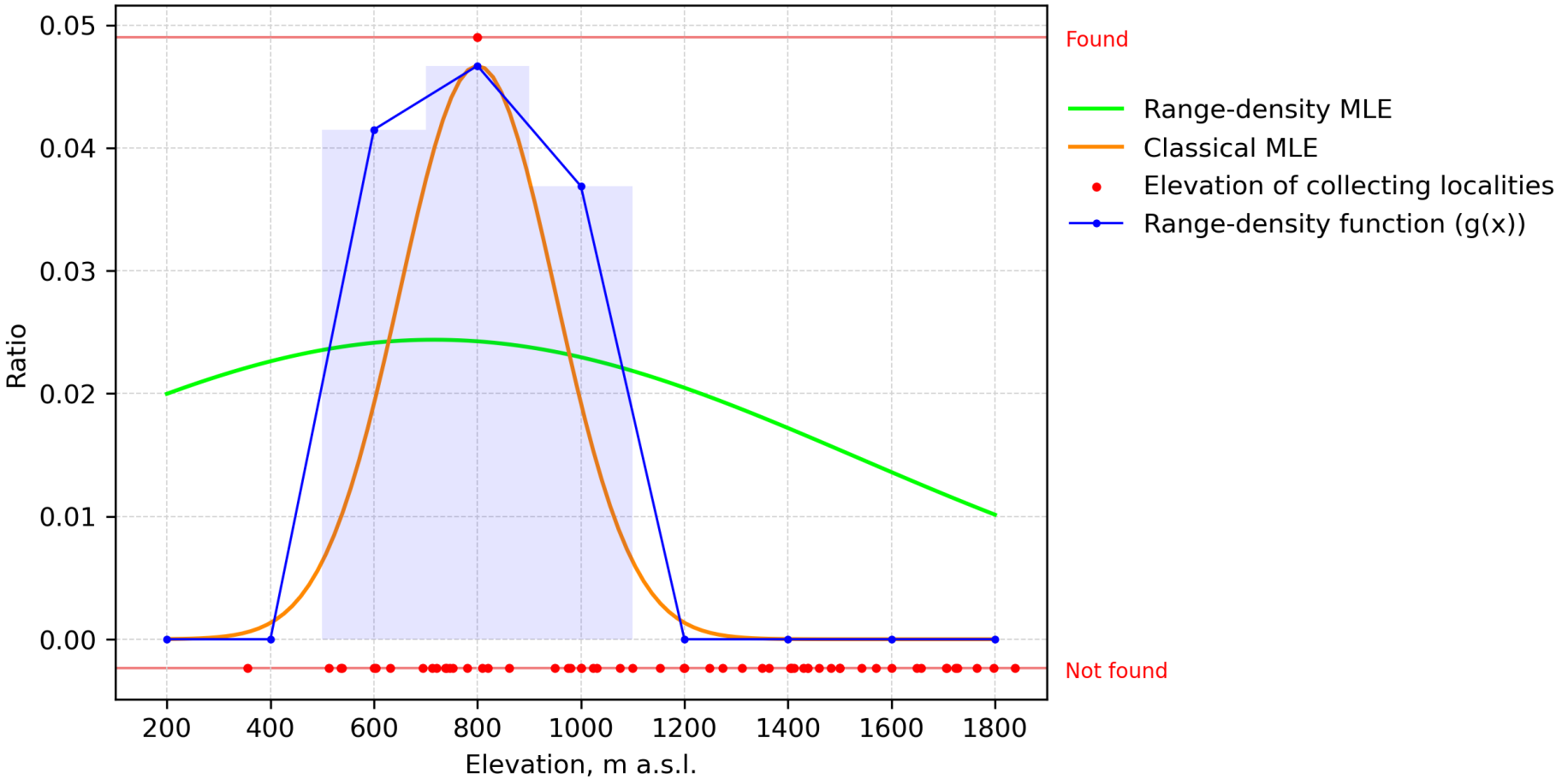


Figure 87. The ratio of the number of occurrences of Porella faurieri (Steph.) S.Hatt to the number of locations where the research was conducted

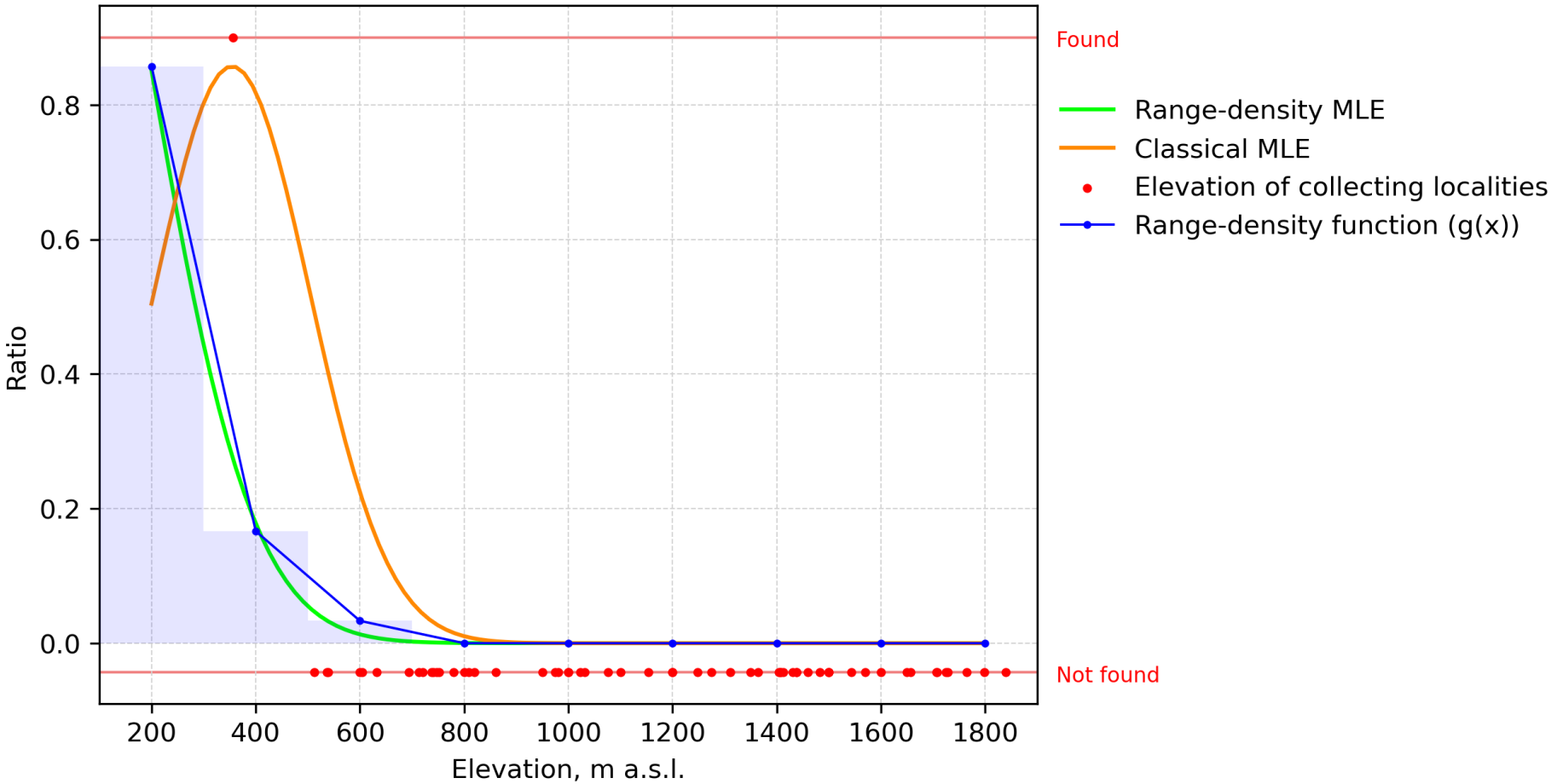


Figure 88. The ratio of the number of occurrences of Porella gracillima Mitt. (including var. urogea) to the number of locations where the research was conducted

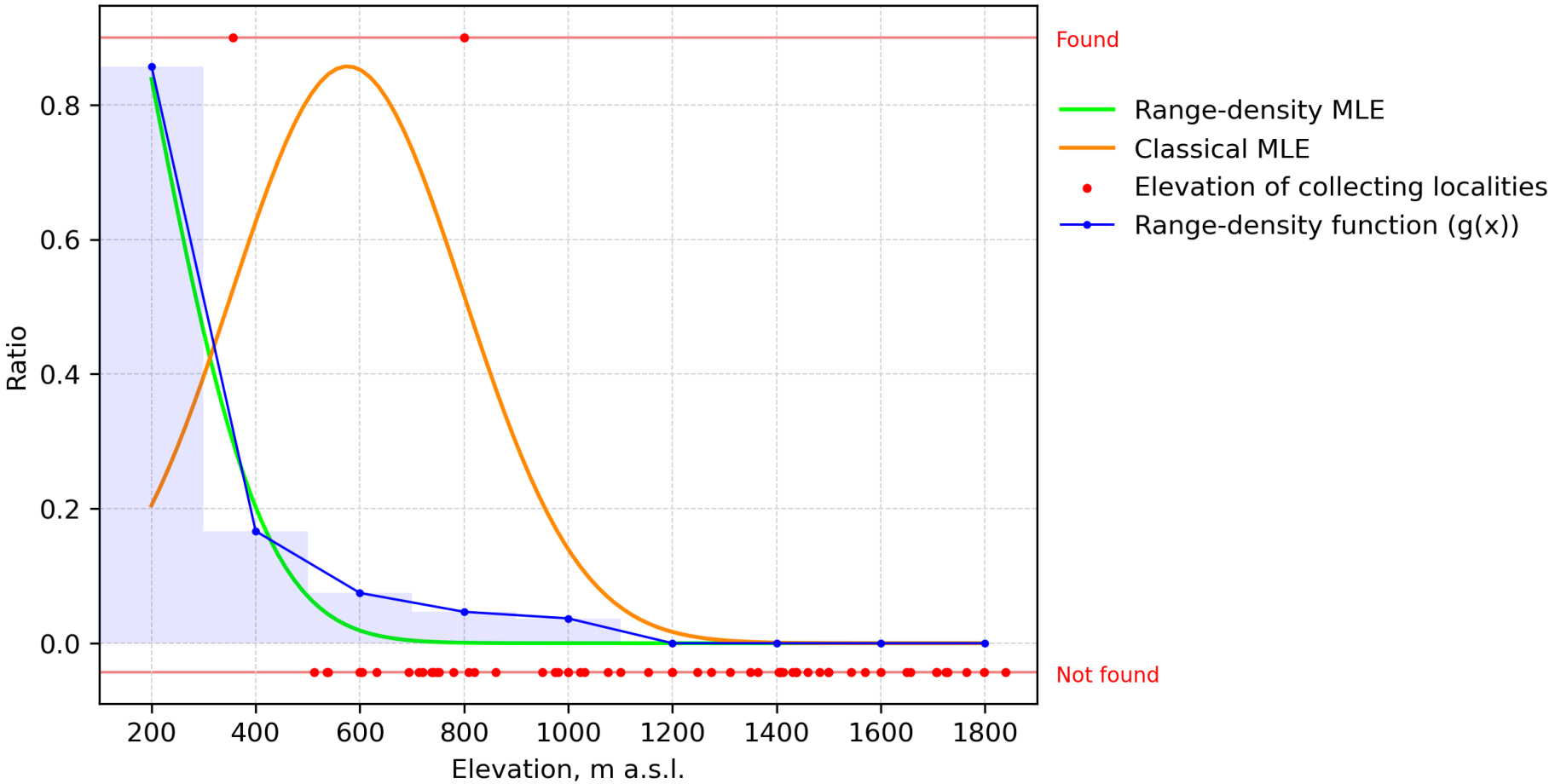


Figure 89. The ratio of the number of occurrences of Porella grandiloba Lindb to the number of locations where the research was conducted

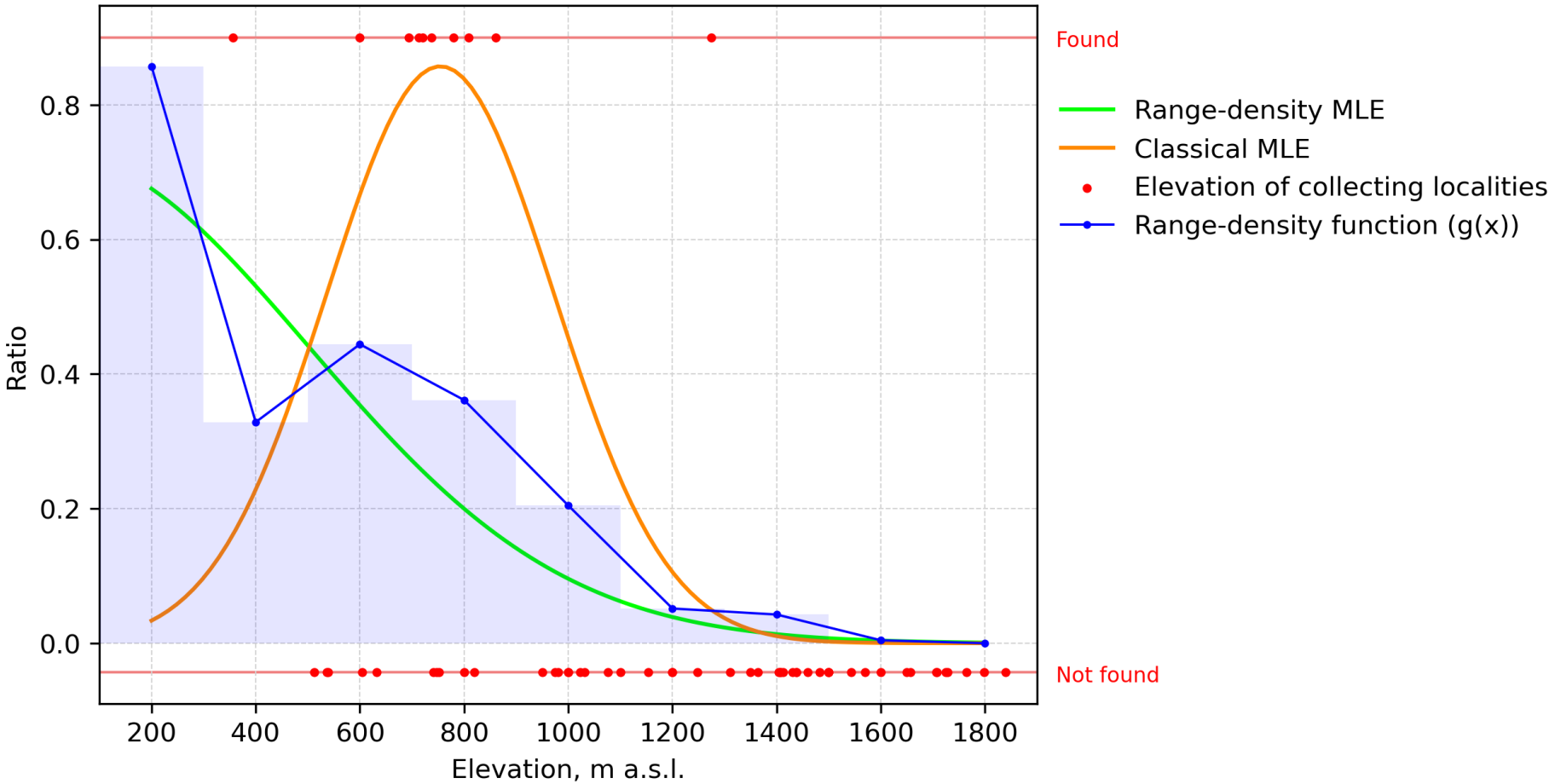


Figure 90. The ratio of the number of occurrences of Porella vernicosa Lindb to the number of locations where the research was conducted

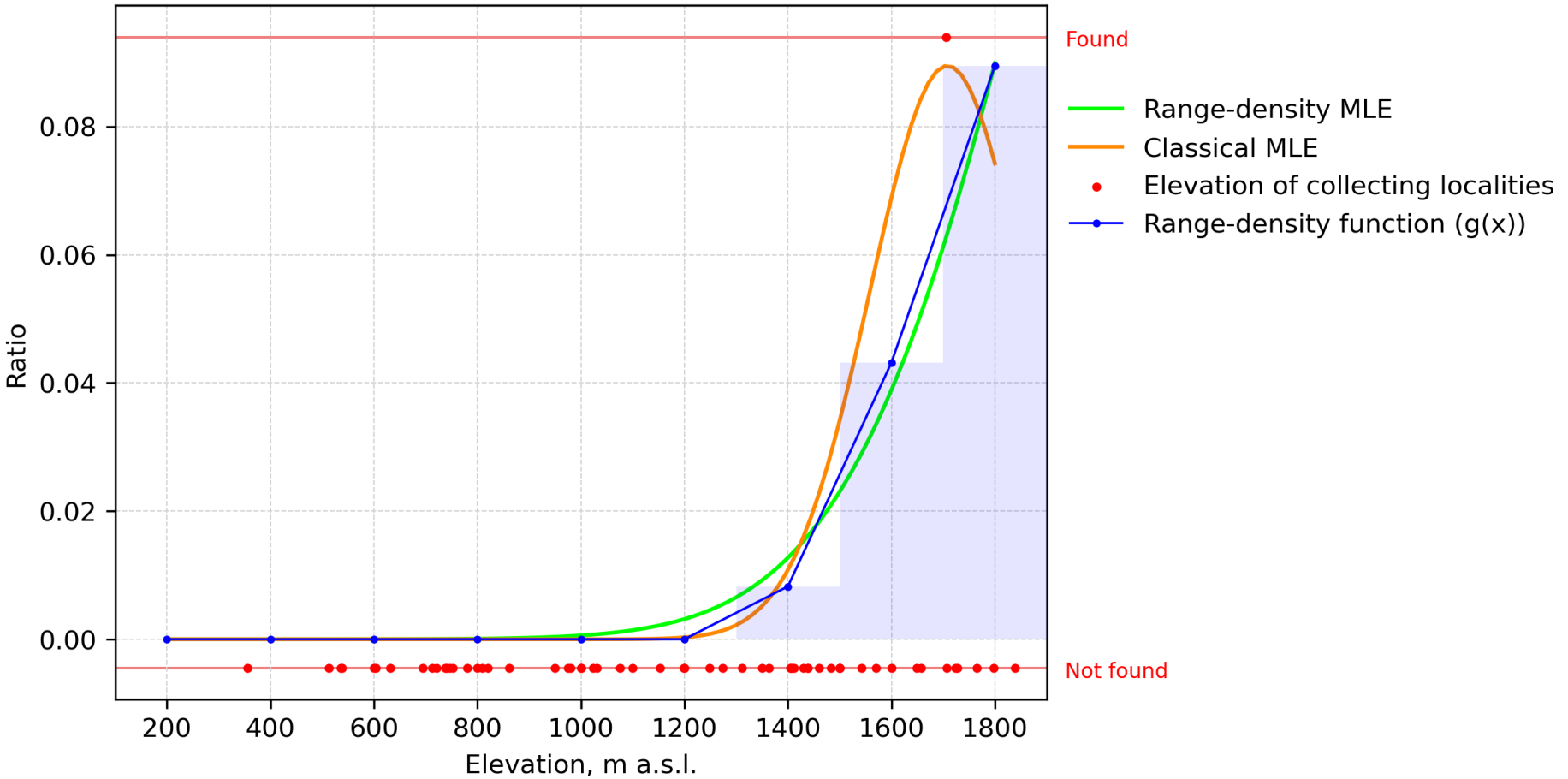


Figure 91. The ratio of the number of occurrences of Pseudolophozia debiliformis (R.M. Schust. & Damsh.) Konstant. & Vilnet to the number of locations where the research was conducted

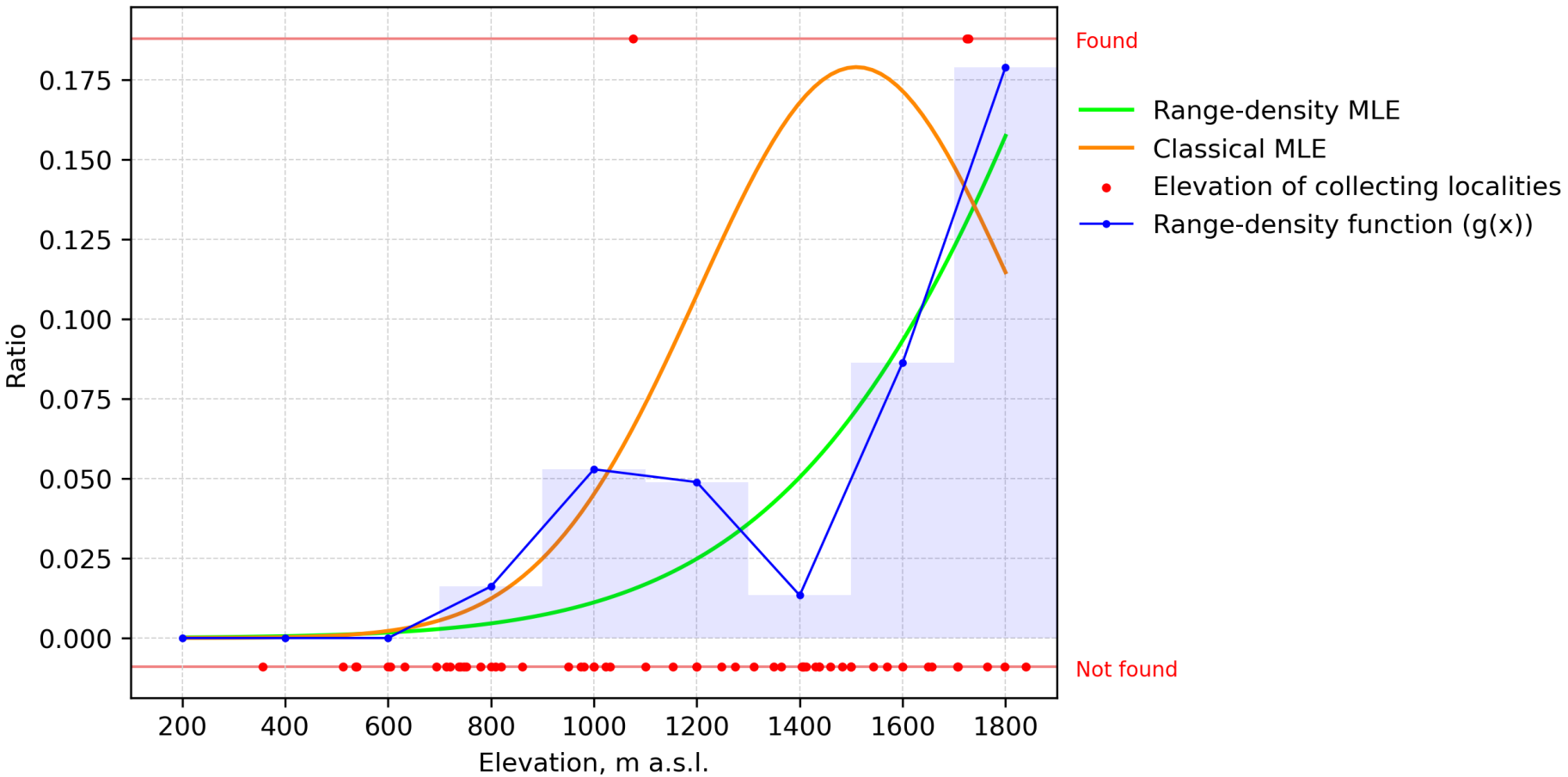


Figure 92. The ratio of the number of occurrences of Pseudolophozia sudetica (Nees ex Huebener) Konstant. et Vilnet to the number of locations where the research was conducted

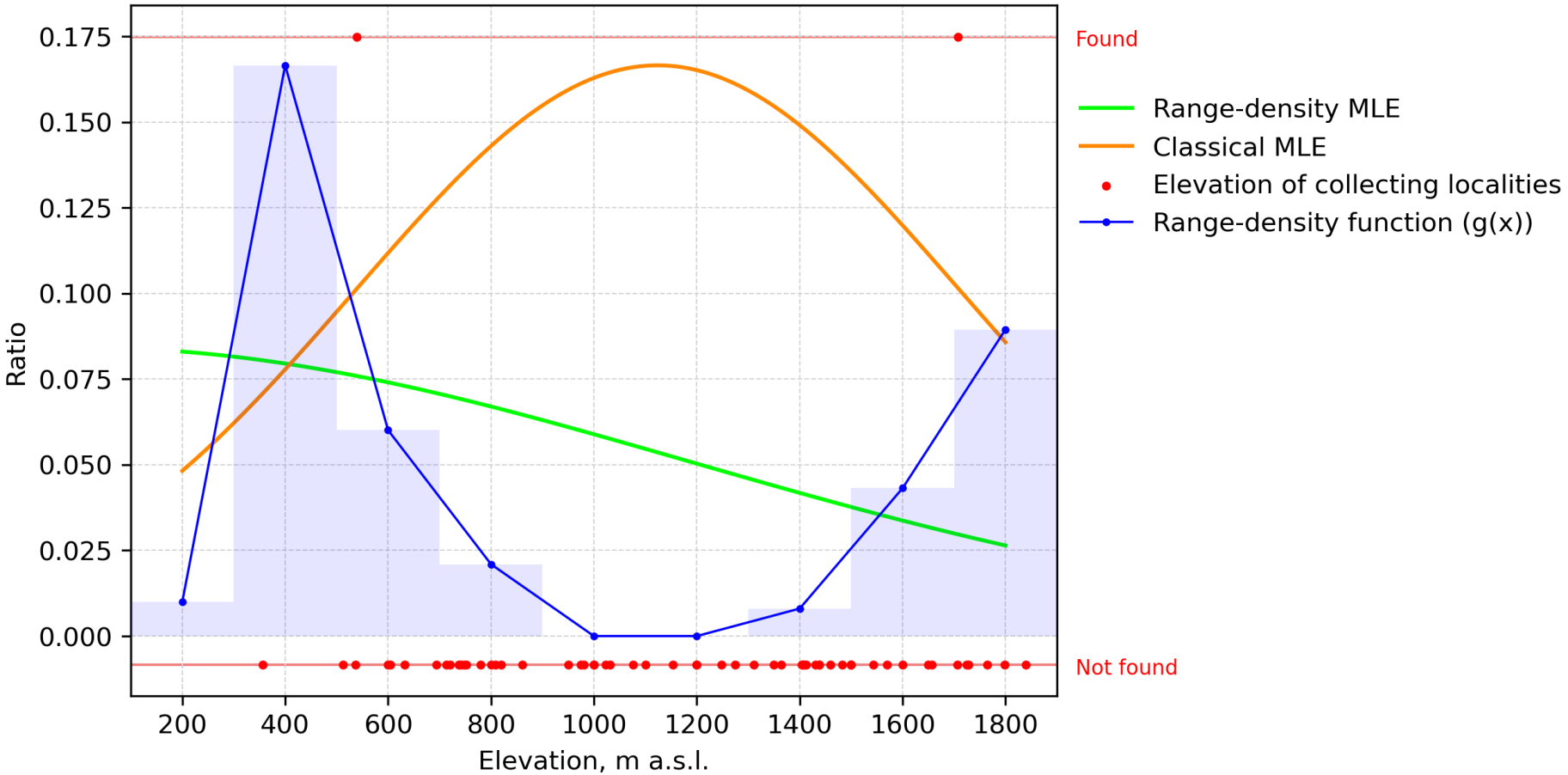


Figure 93. The ratio of the number of occurrences of Ptilidium ciliare (L.) Hampe to the number of locations where the research was conducted

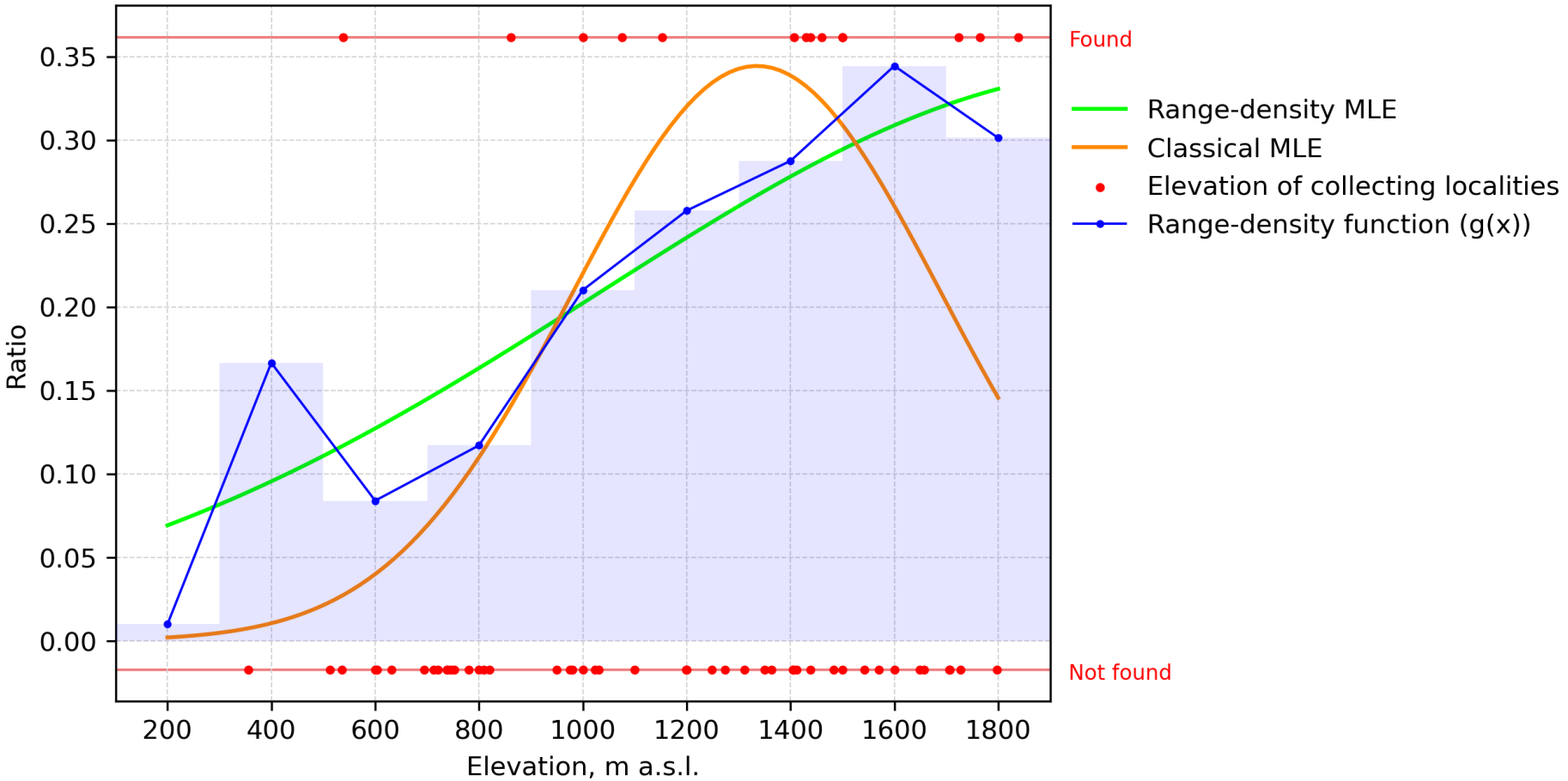


Figure 94. The ratio of the number of occurrences of Ptilidium pulcherrimum (Weber) Vain to the number of locations where the research was conducted

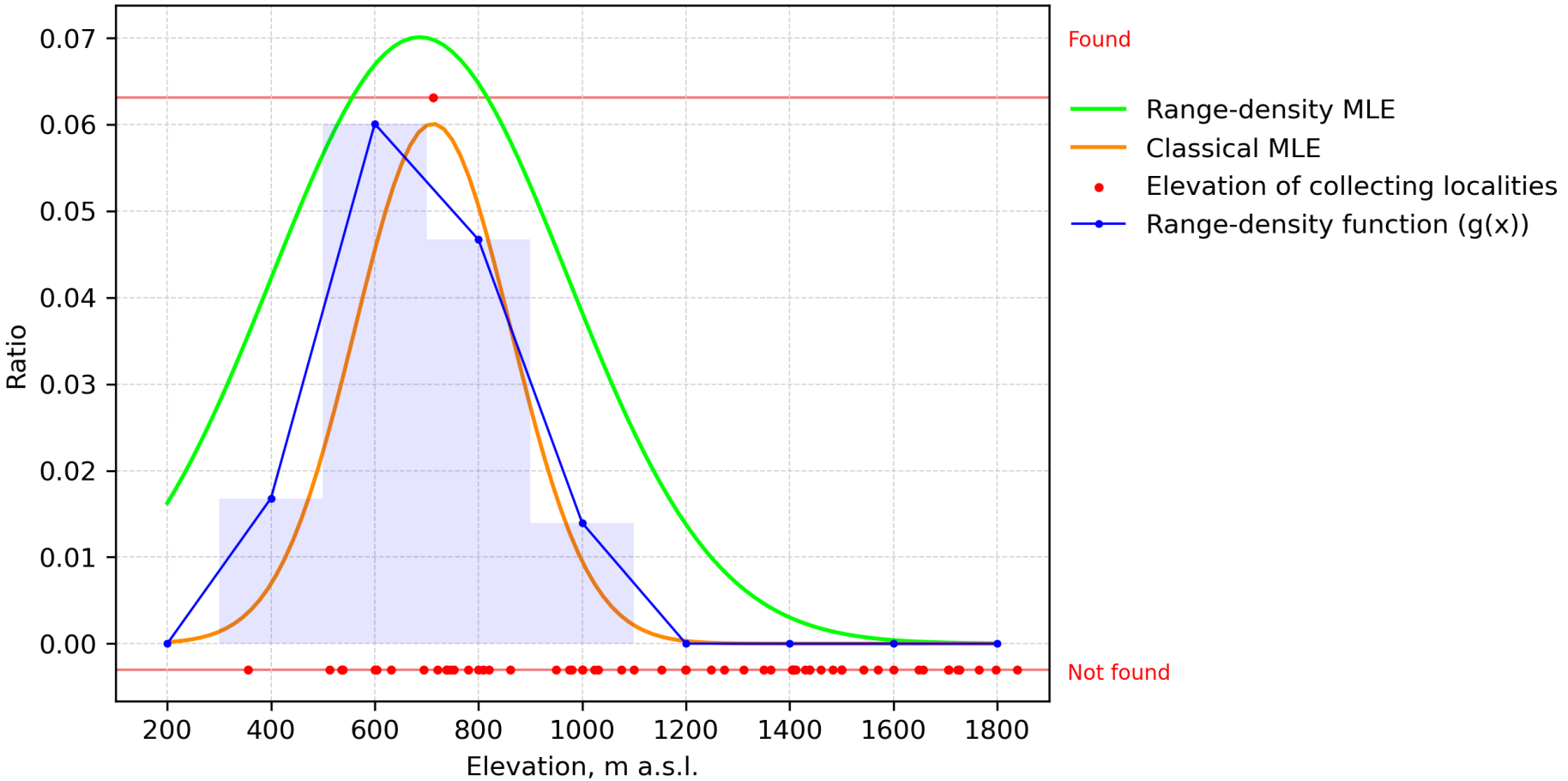


Figure 95. The ratio of the number of occurrences of Radula auriculata Steph to the number of locations where the research was conducted

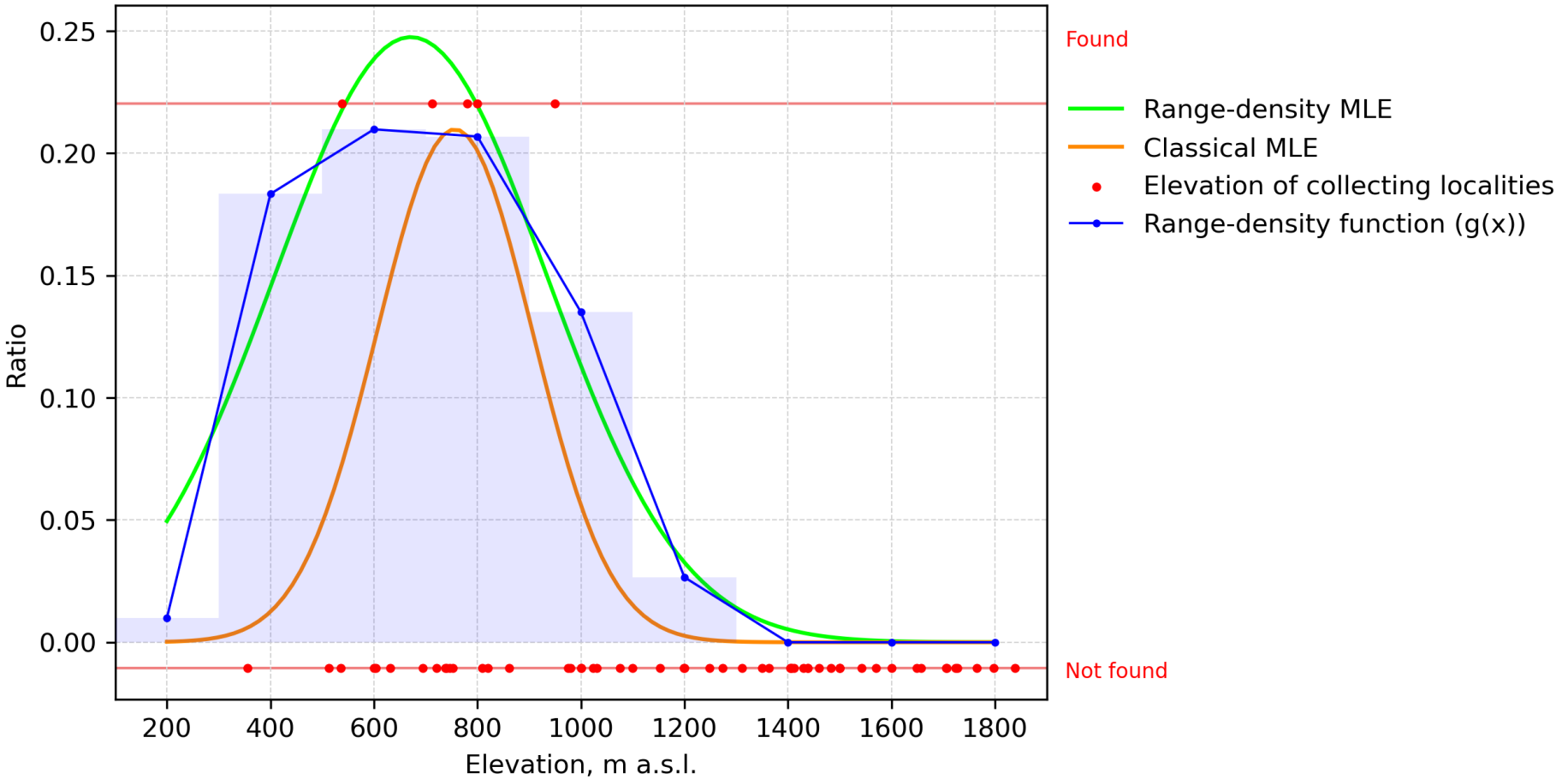


Figure 96. The ratio of the number of occurrences of Radula complanata (L.) Dumort to the number of locations where the research was conducted

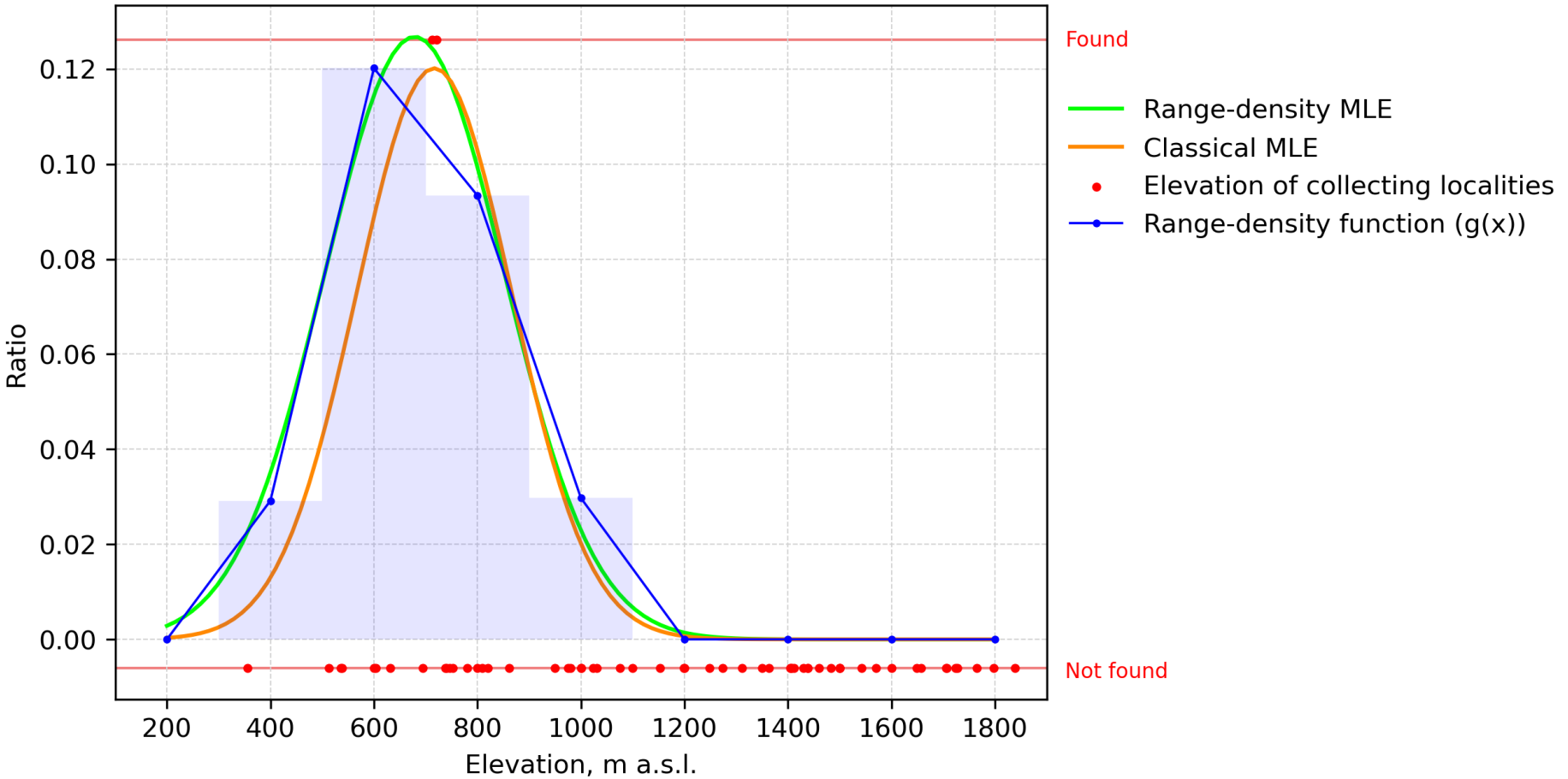


Figure 97. The ratio of the number of occurrences of Radula japonica Gottsche to the number of locations where the research was conducted

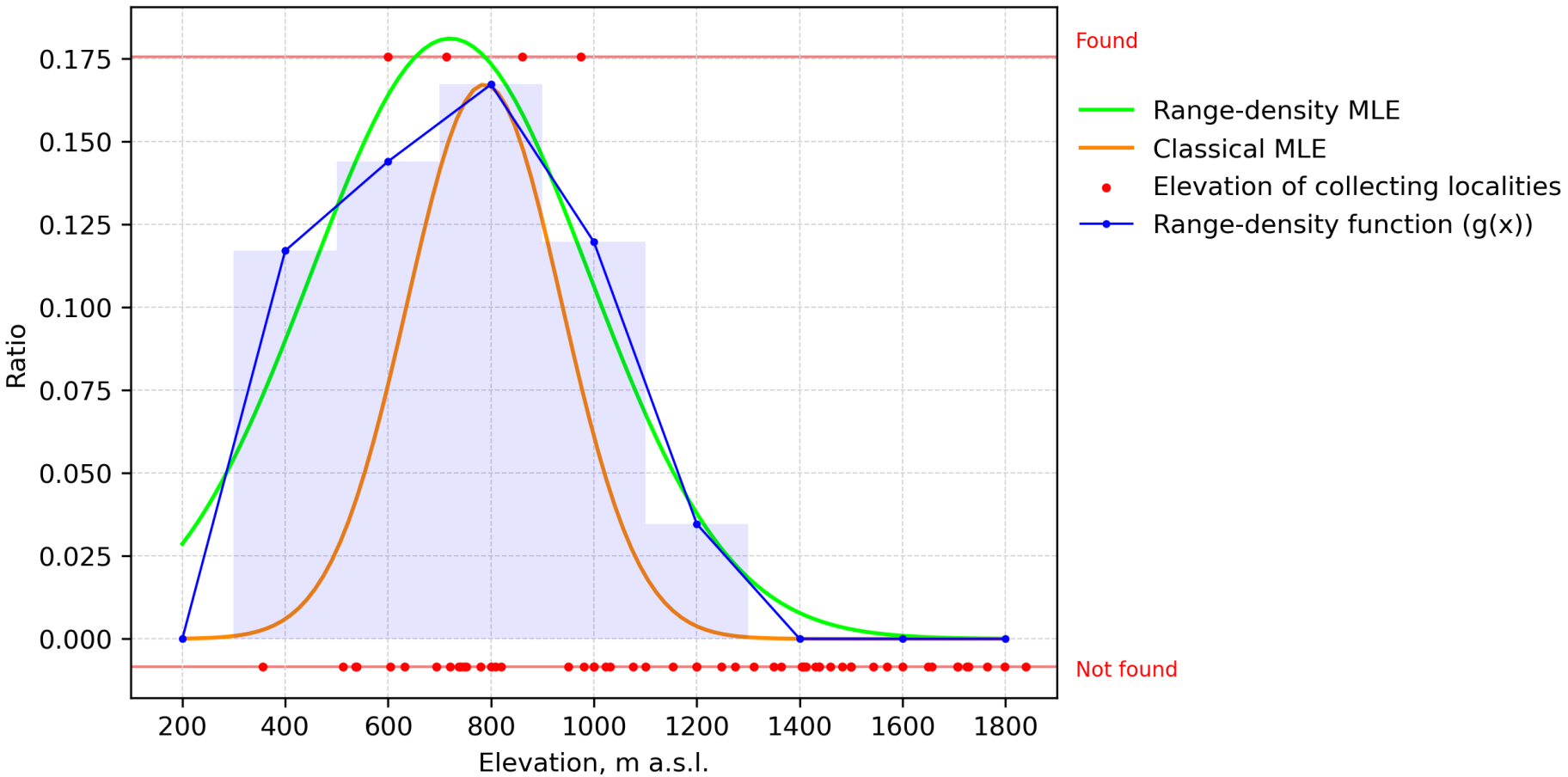


Figure 98. The ratio of the number of occurrences of Radula obtusiloba Steph to the number of locations where the research was conducted

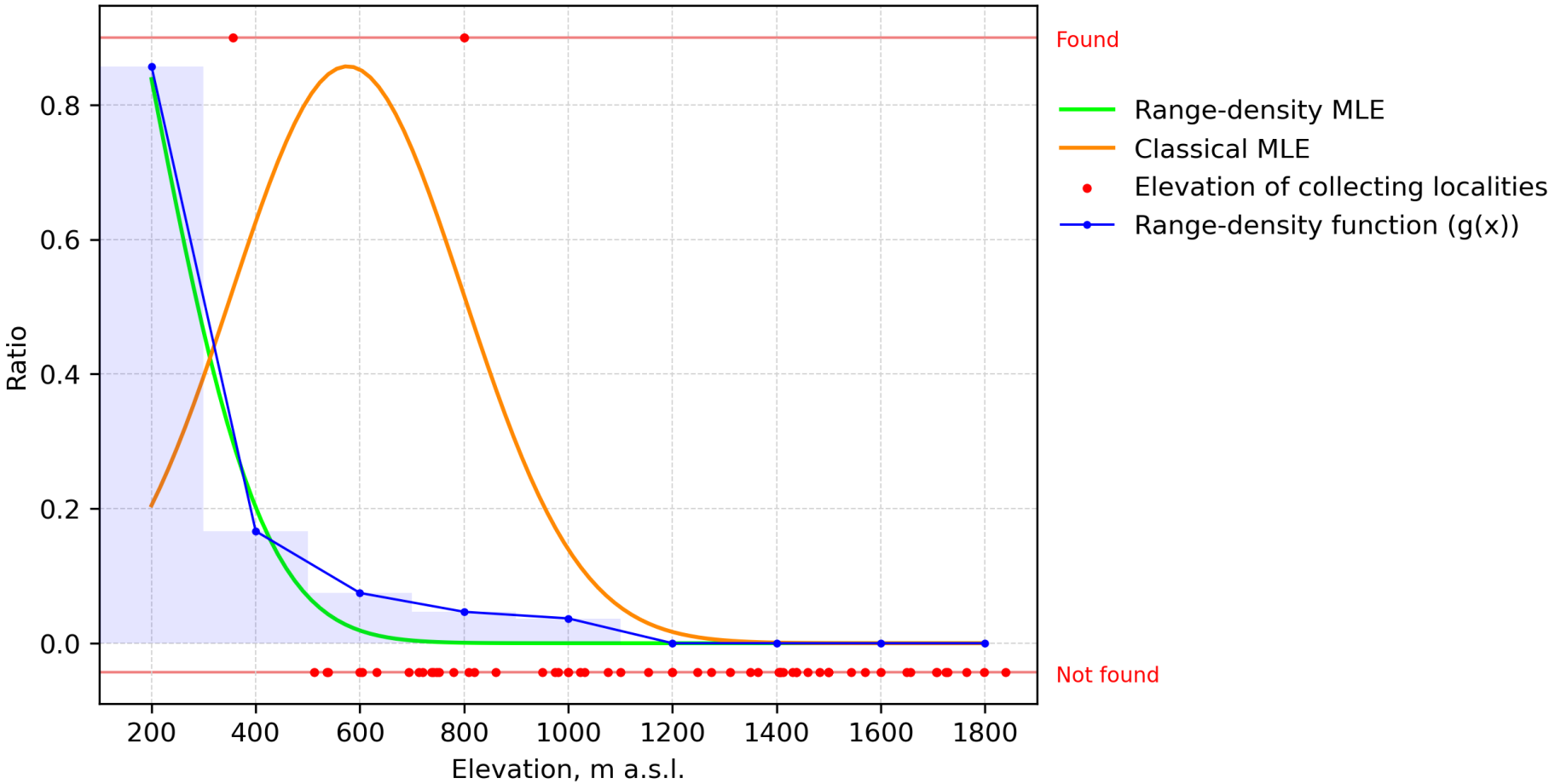


Figure 99. The ratio of the number of occurrences of Reboulia hemisphaerica (L.) Raddi to the number of locations where the research was conducted

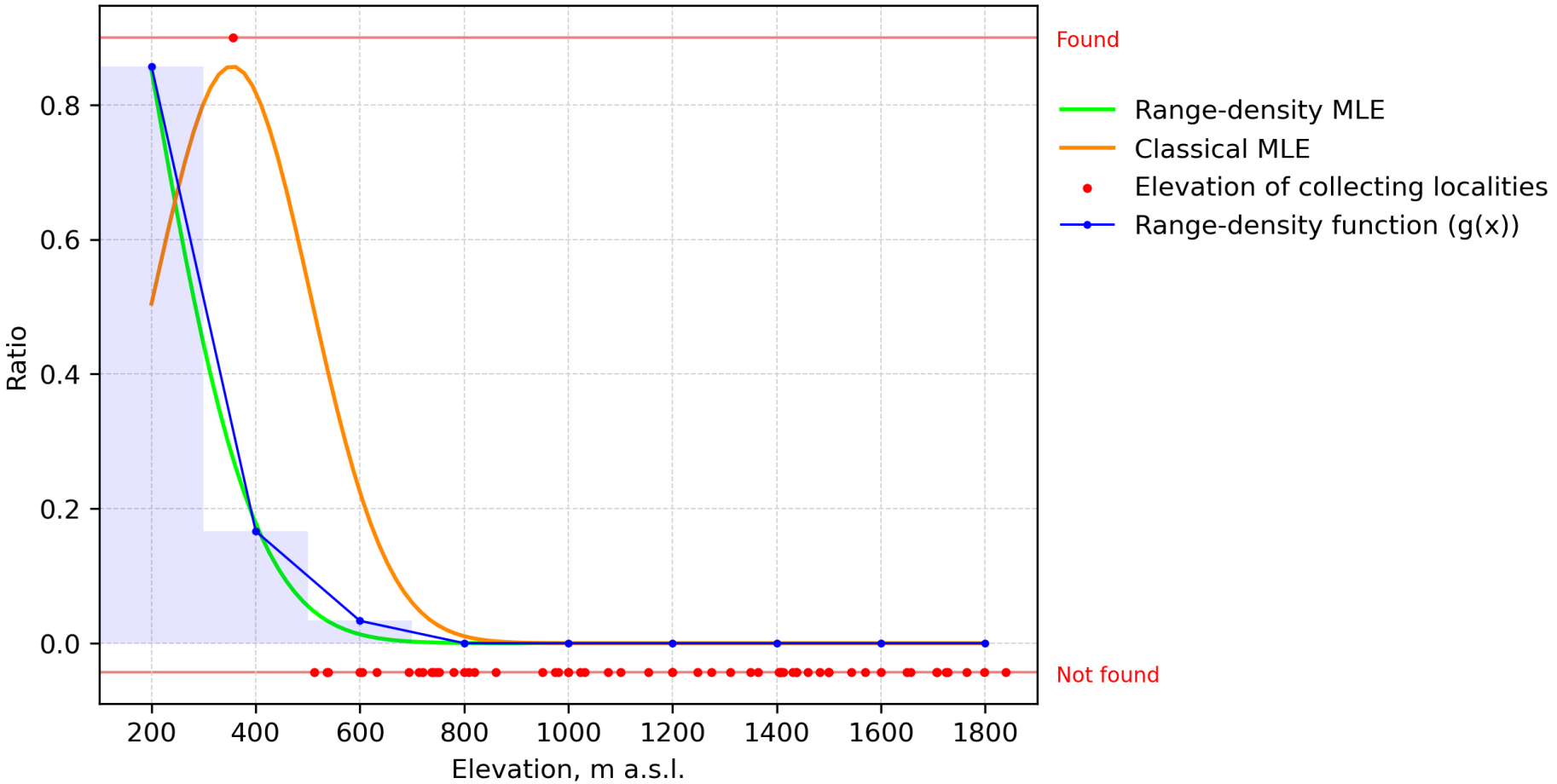


Figure 100. The ratio of the number of occurrences of Reboulia hemisphaerica (L.) Raddi subsp. orientalis R.M.Schust to the number of locations where the research was conducted

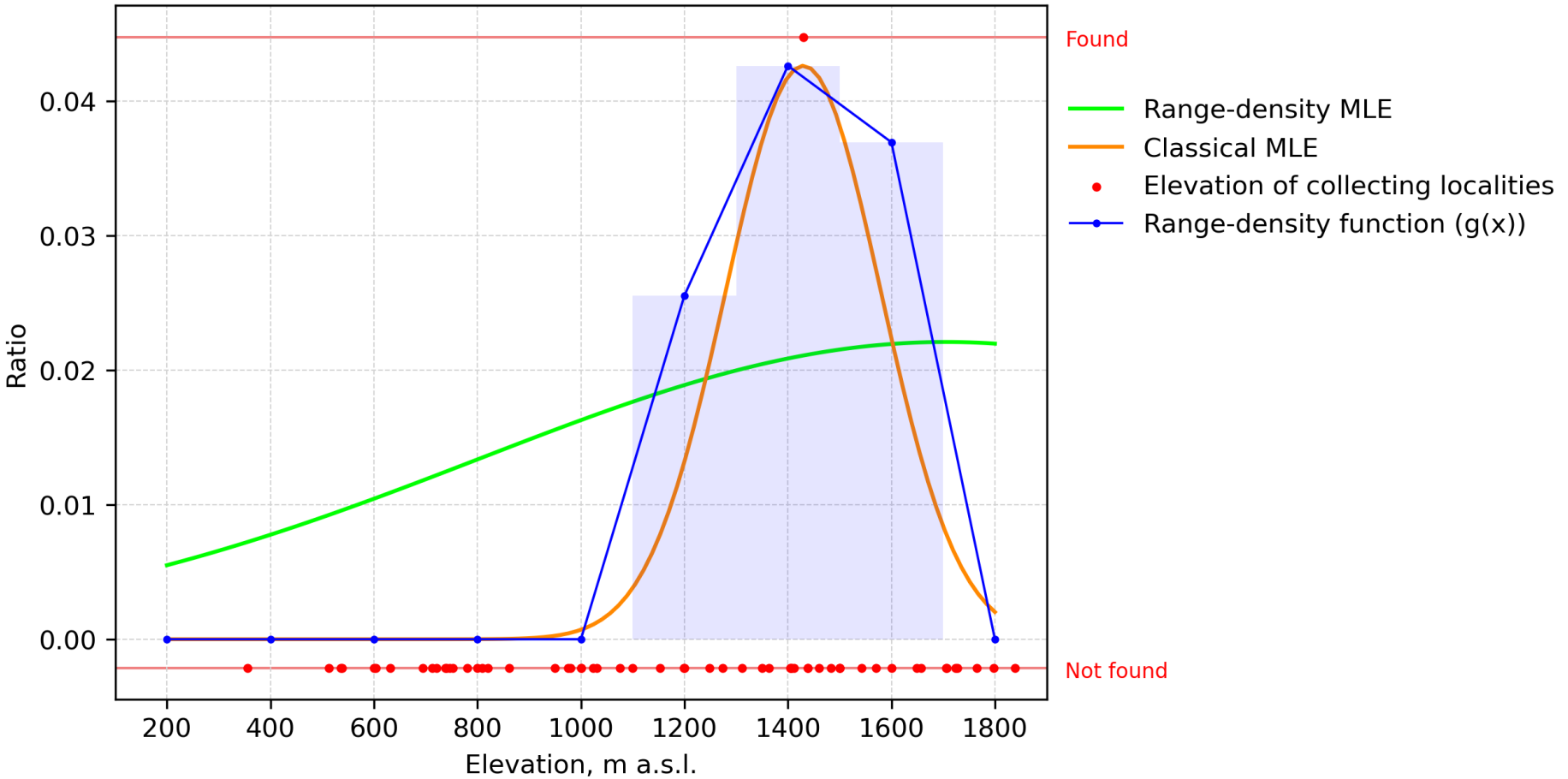


Figure 101. The ratio of the number of occurrences of Riccardia palmata (Hedw.) Carruth to the number of locations where the research was conducted

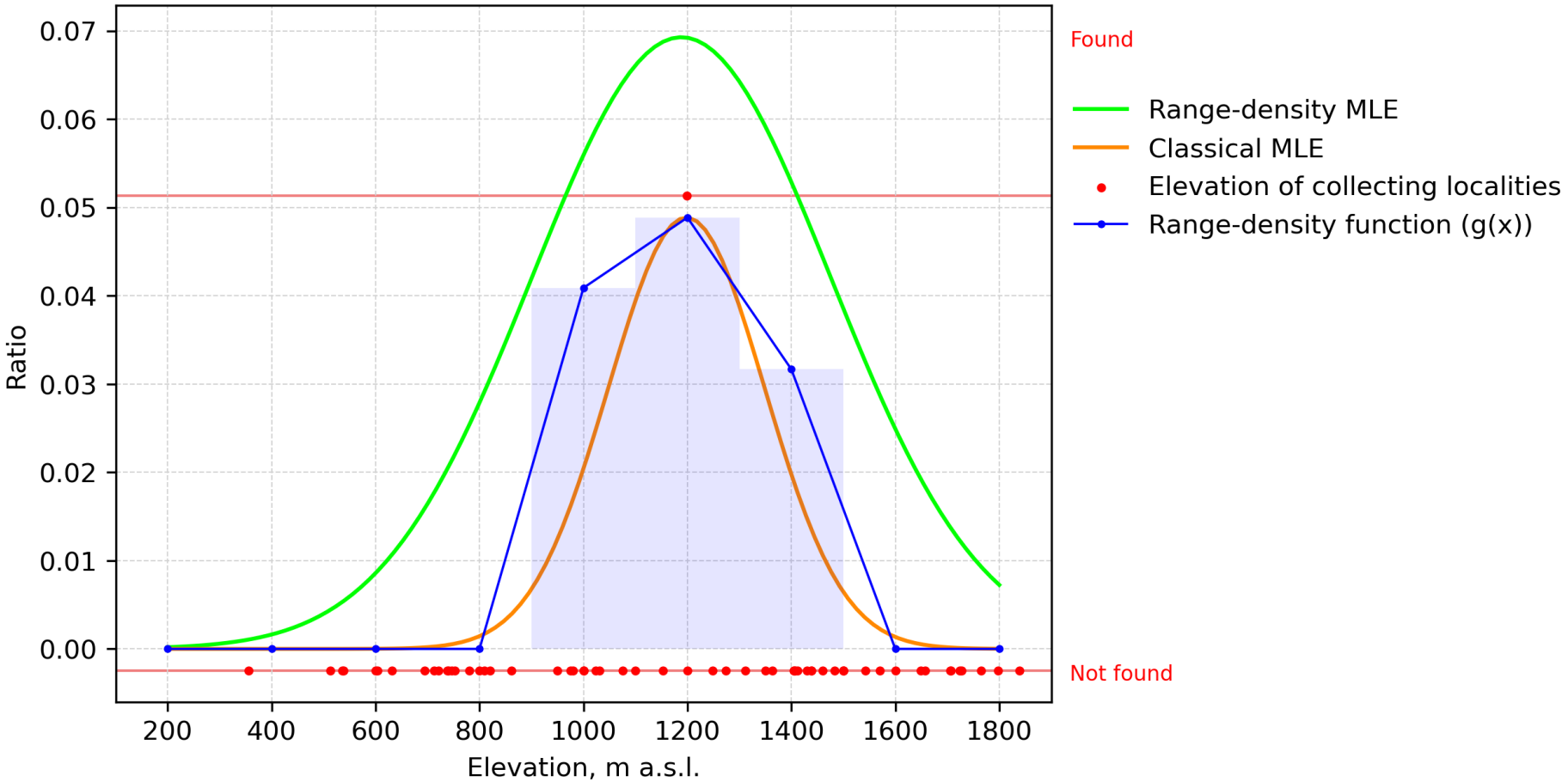


Figure 102. The ratio of the number of occurrences of Scapania apiculata Spruce to the number of locations where the research was conducted

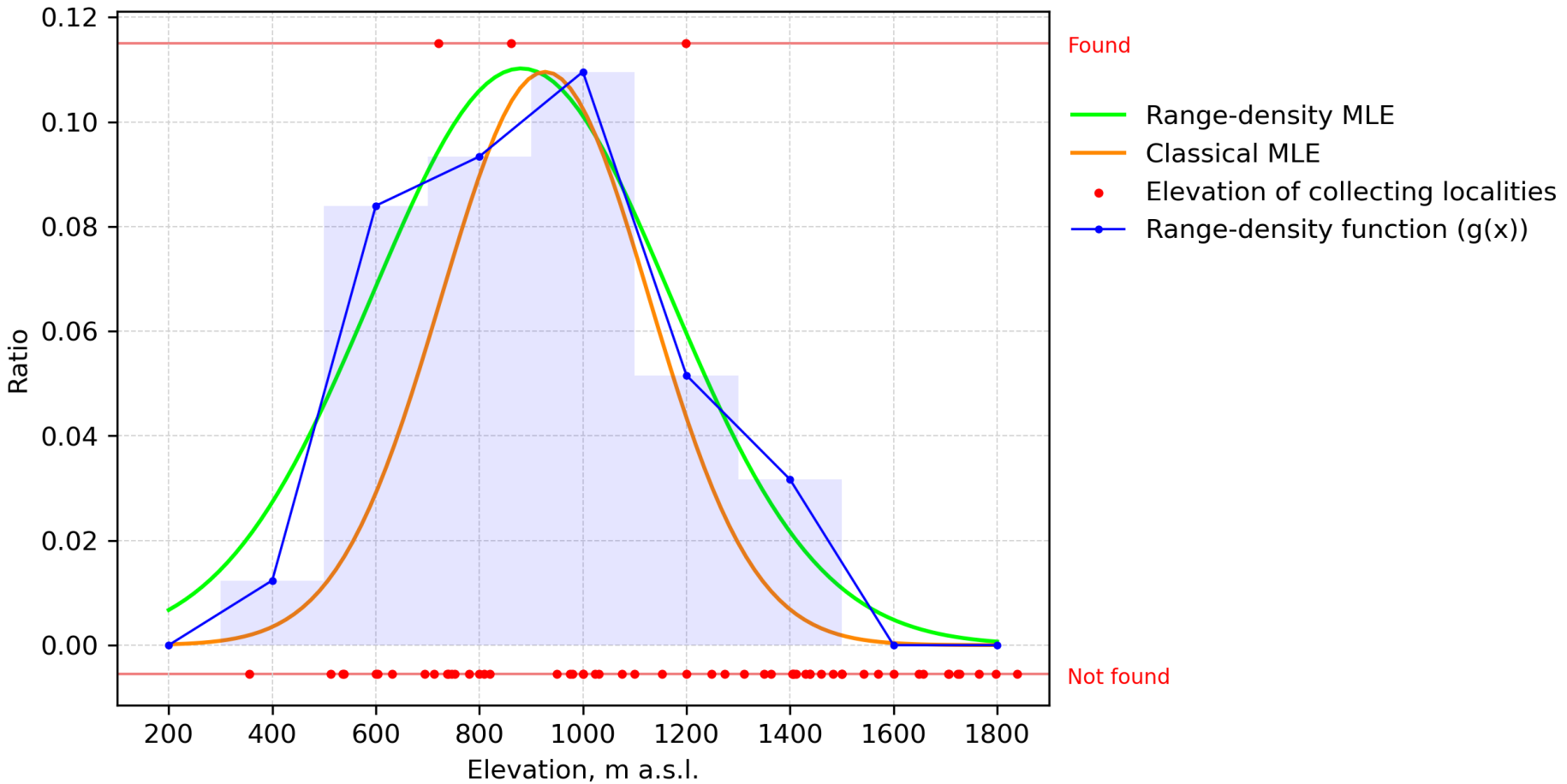


Figure 103. The ratio of the number of occurrences of Scapania carinthiaca J.B.Jack ex Lindb to the number of locations where the research was conducted

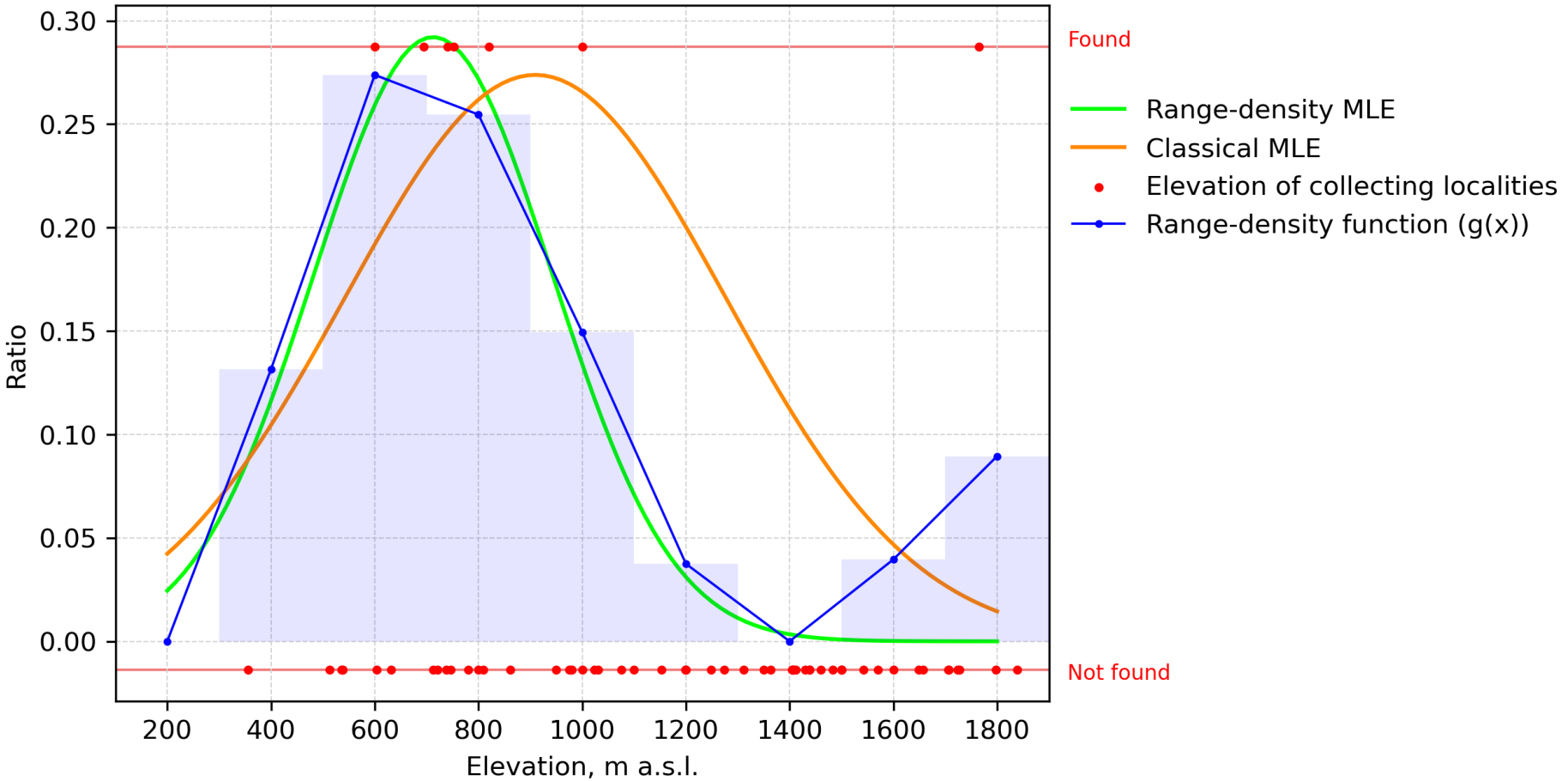


Figure 104. The ratio of the number of occurrences of Scapania crassiretis Bryhn to the number of locations where the research was conducted

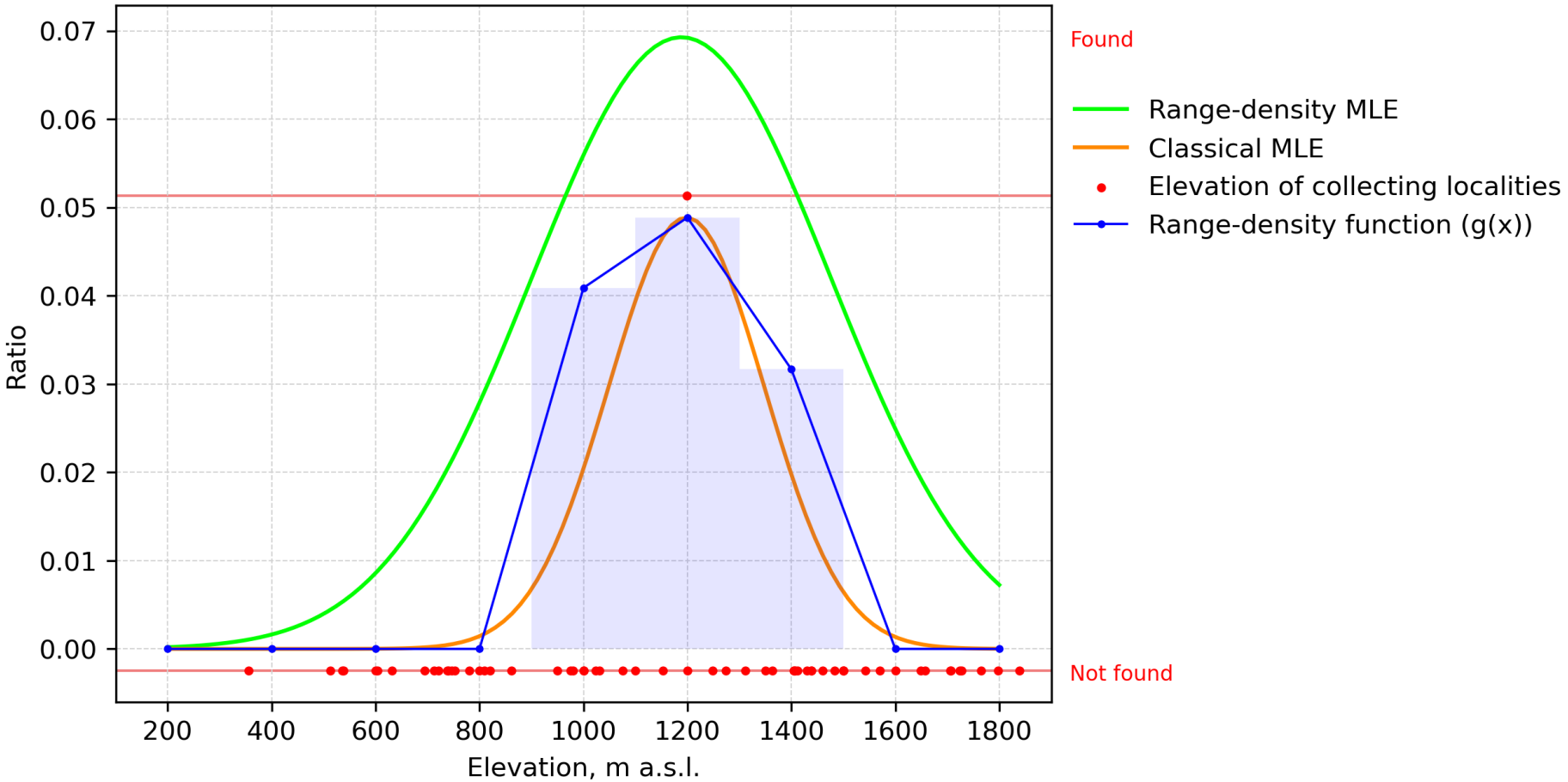


Figure 105. The ratio of the number of occurrences of Scapania diplophylloides Amakawa et S.Hatt to the number of locations where the research was conducted

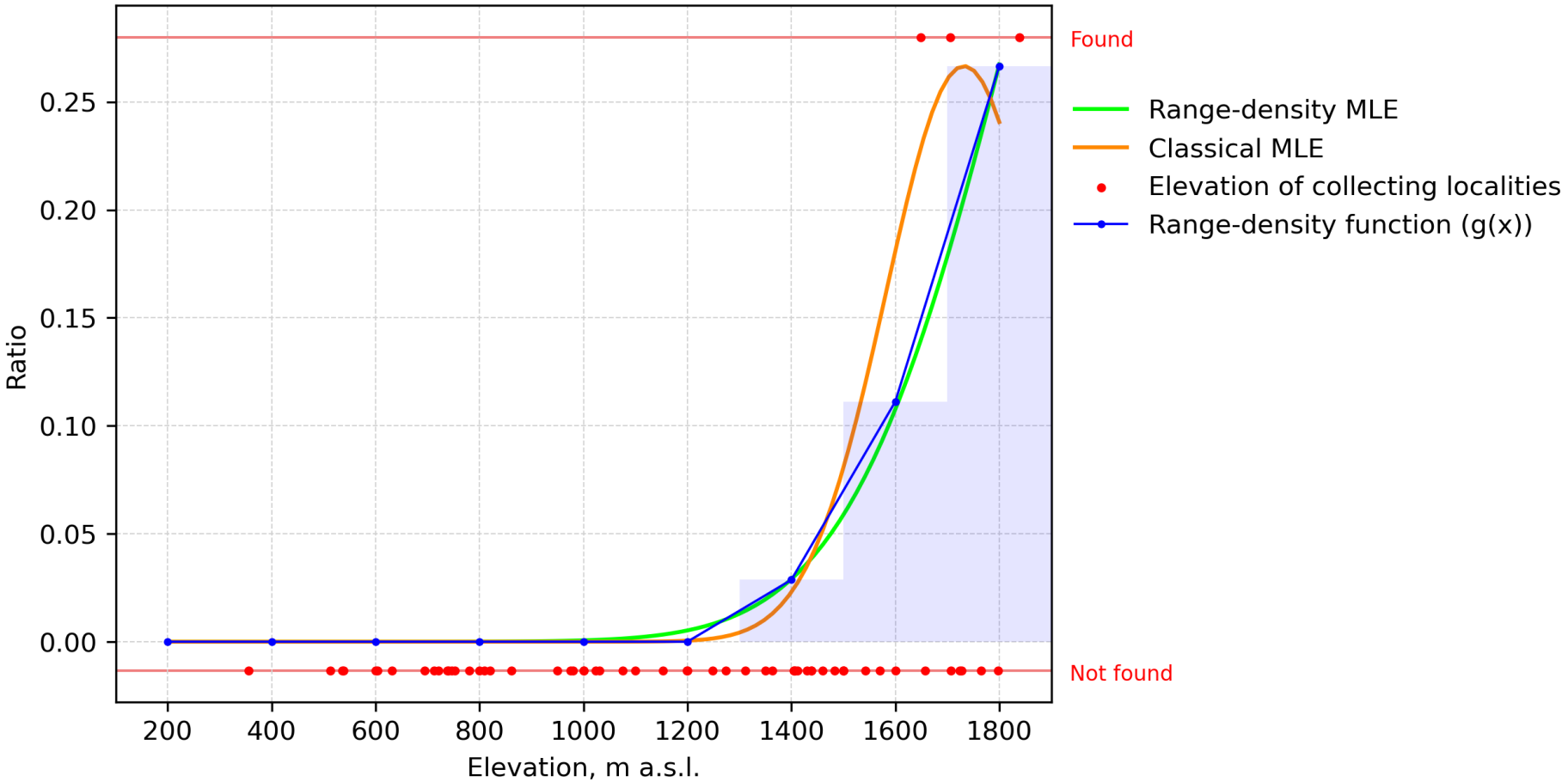


Figure 106. The ratio of the number of occurrences of Scapania irrigua (Nees) Nees to the number of locations where the research was conducted

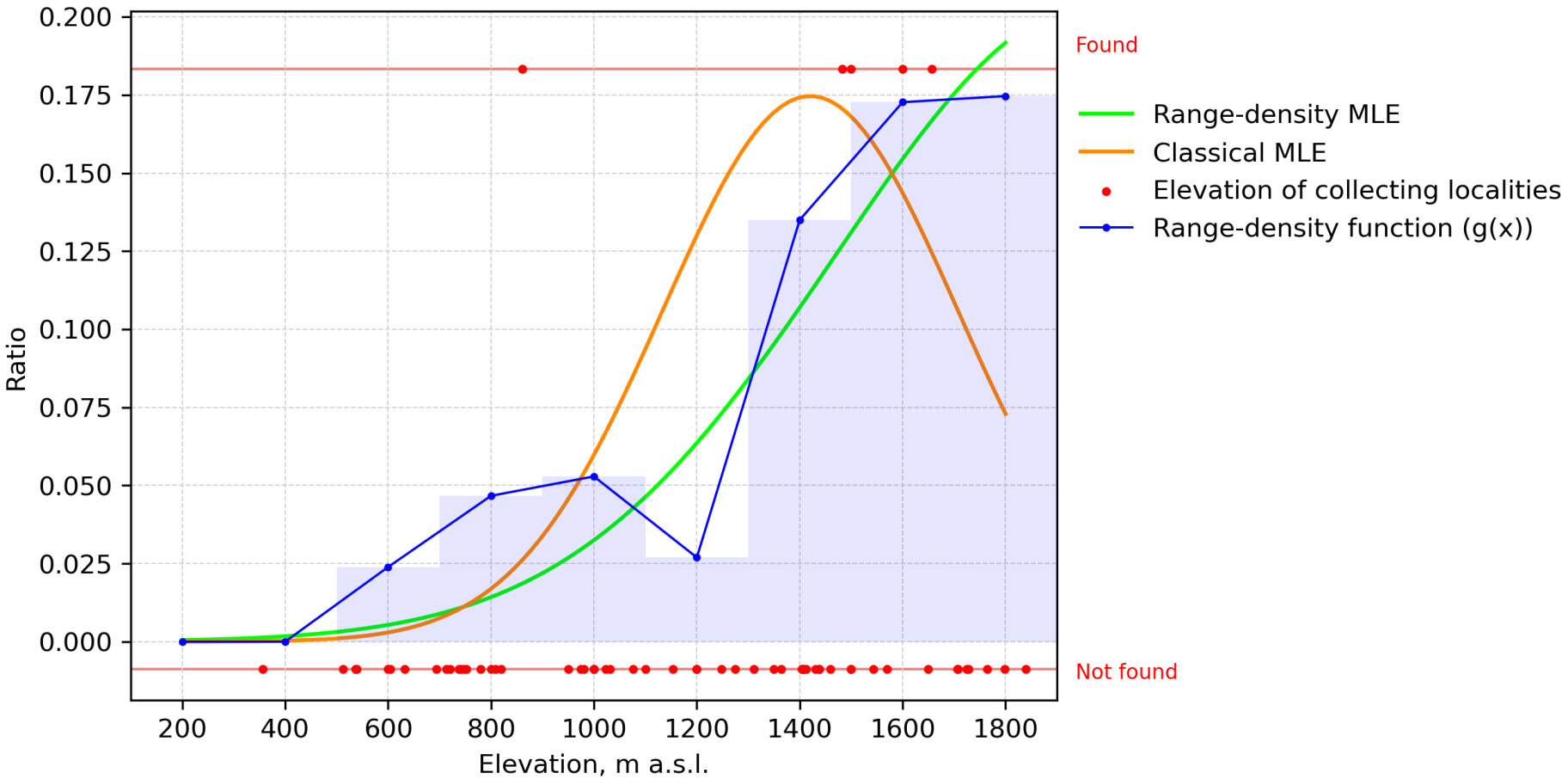


Figure 107. The ratio of the number of occurrences of Scapania microdonta (Mitt.) Müll. Frib to the number of locations where the research was conducted

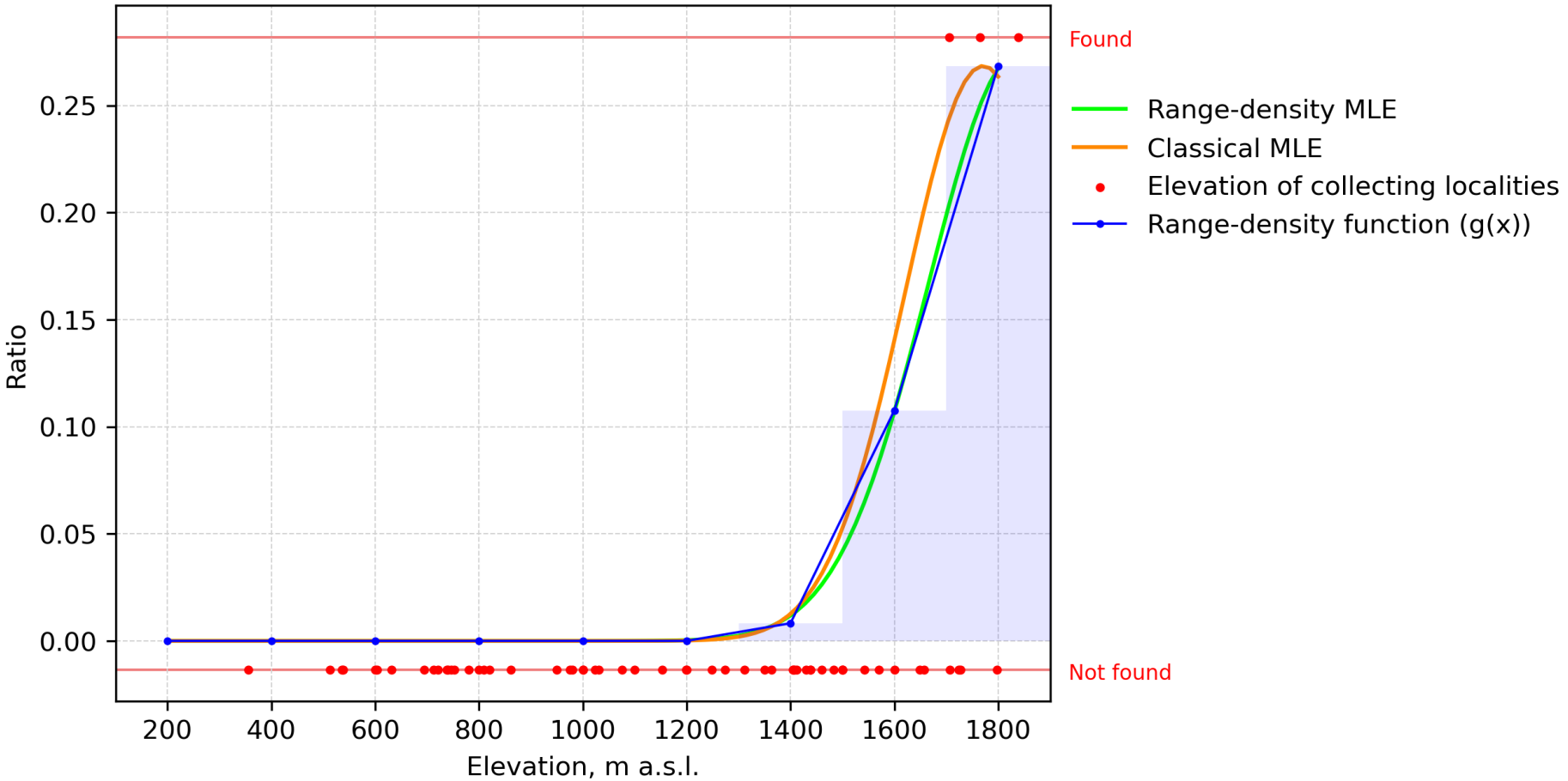


Figure 108. The ratio of the number of occurrences of Scapania mucronata H.Buch to the number of locations where the research was conducted

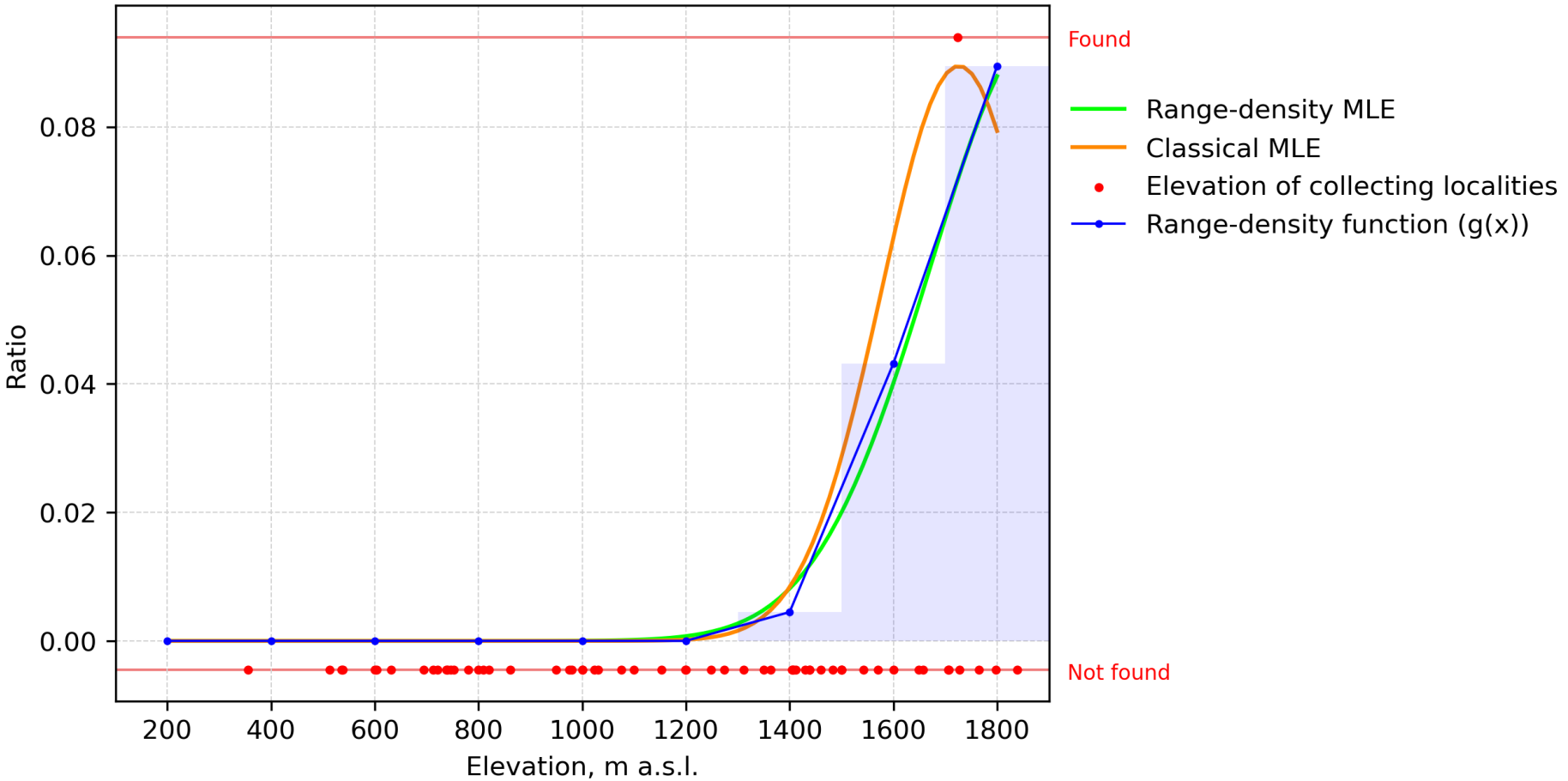


Figure 109. The ratio of the number of occurrences of Scapania parvifolia Warnst to the number of locations where the research was conducted

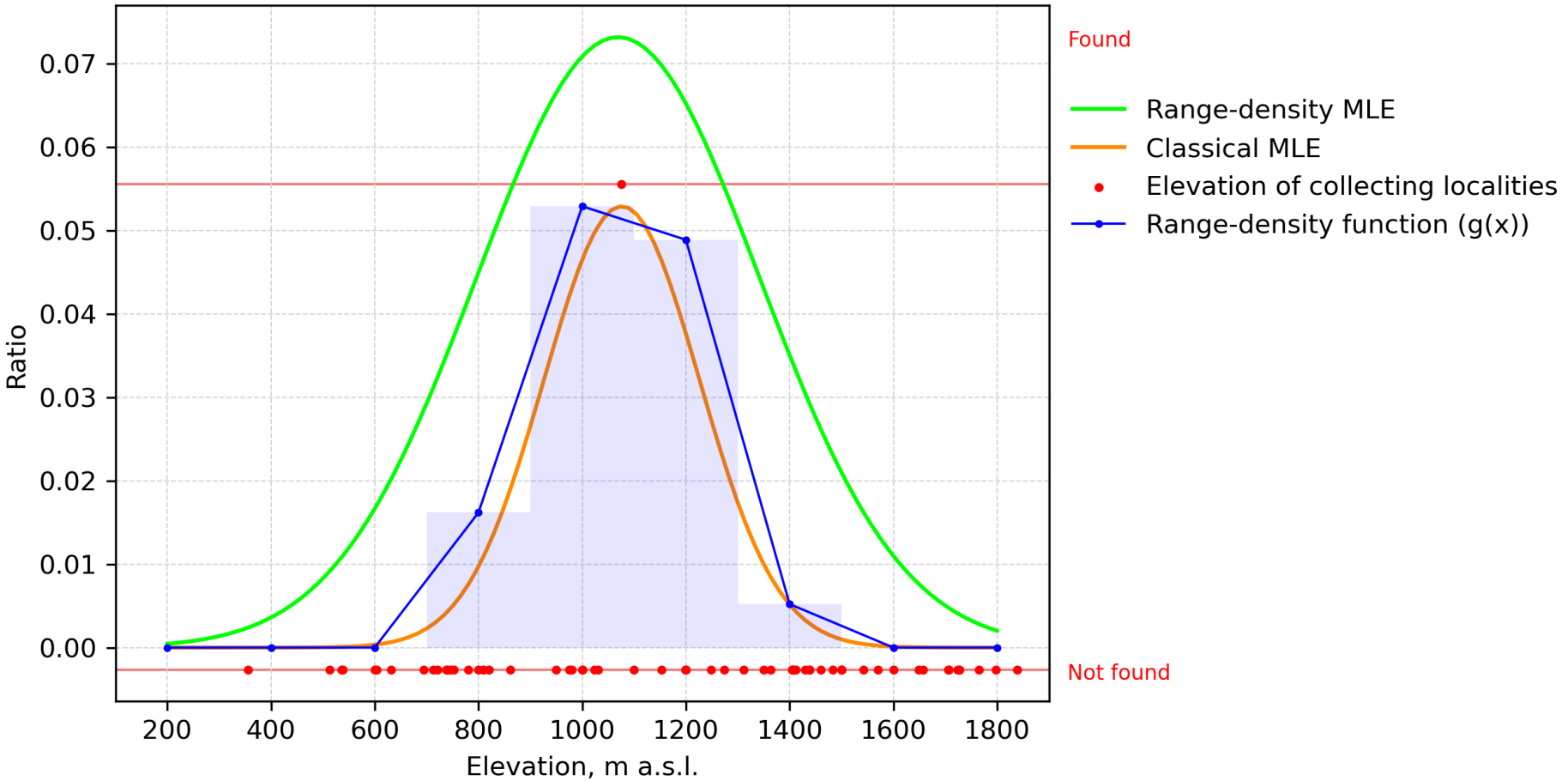


Figure 110. The ratio of the number of occurrences of Scapania parvitexta Steph to the number of locations where the research was conducted

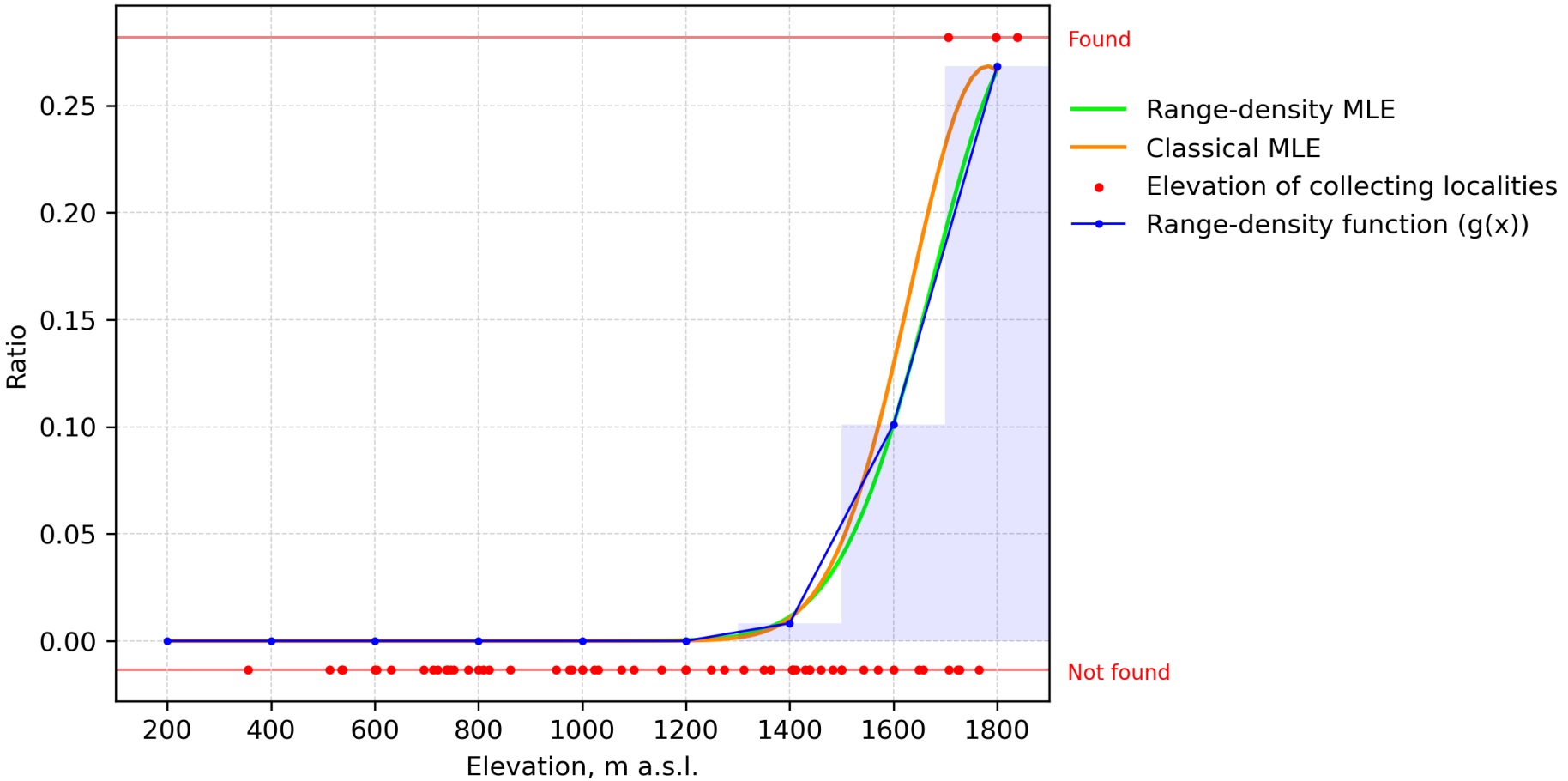


Figure 111. The ratio of the number of occurrences of Scapania praetervisa Meyl to the number of locations where the research was conducted

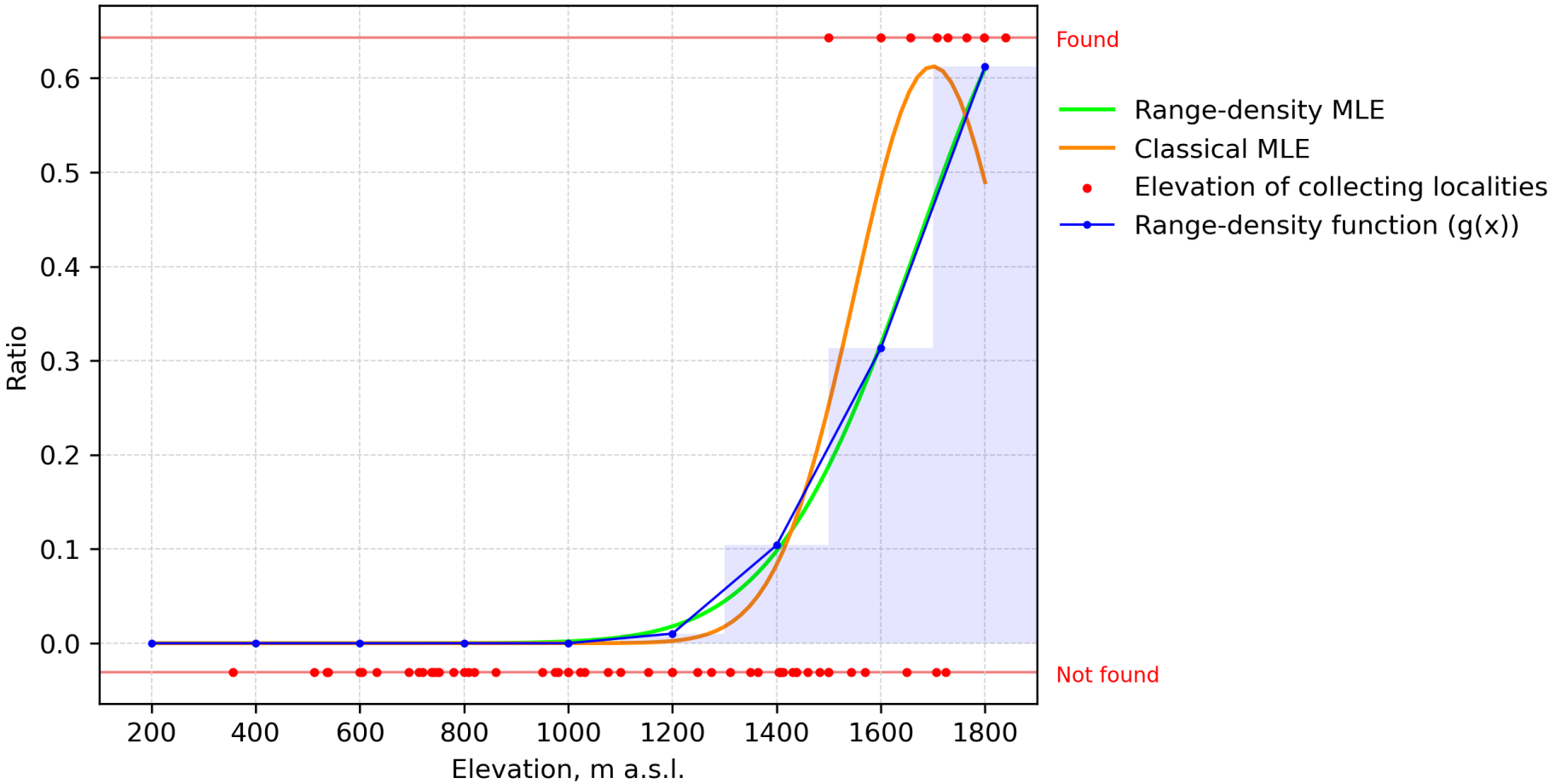


Figure 112. The ratio of the number of occurrences of Scapania sphaerifera H.Buch et Tuom to the number of locations where the research was conducted

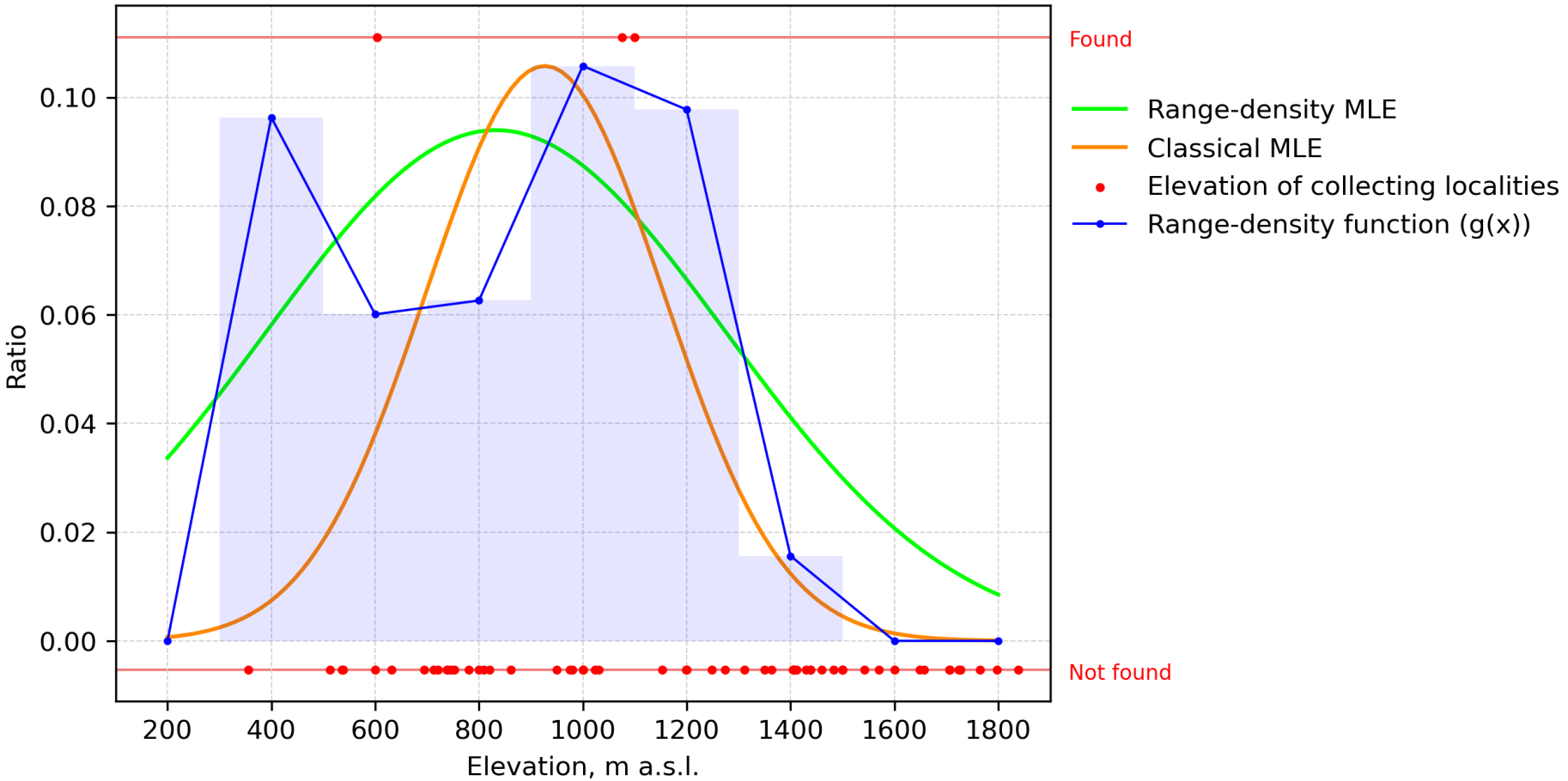


Figure 113. The ratio of the number of occurrences of Scapania subalpina (Nees ex Lindenb.) Dumort to the number of locations where the research was conducted

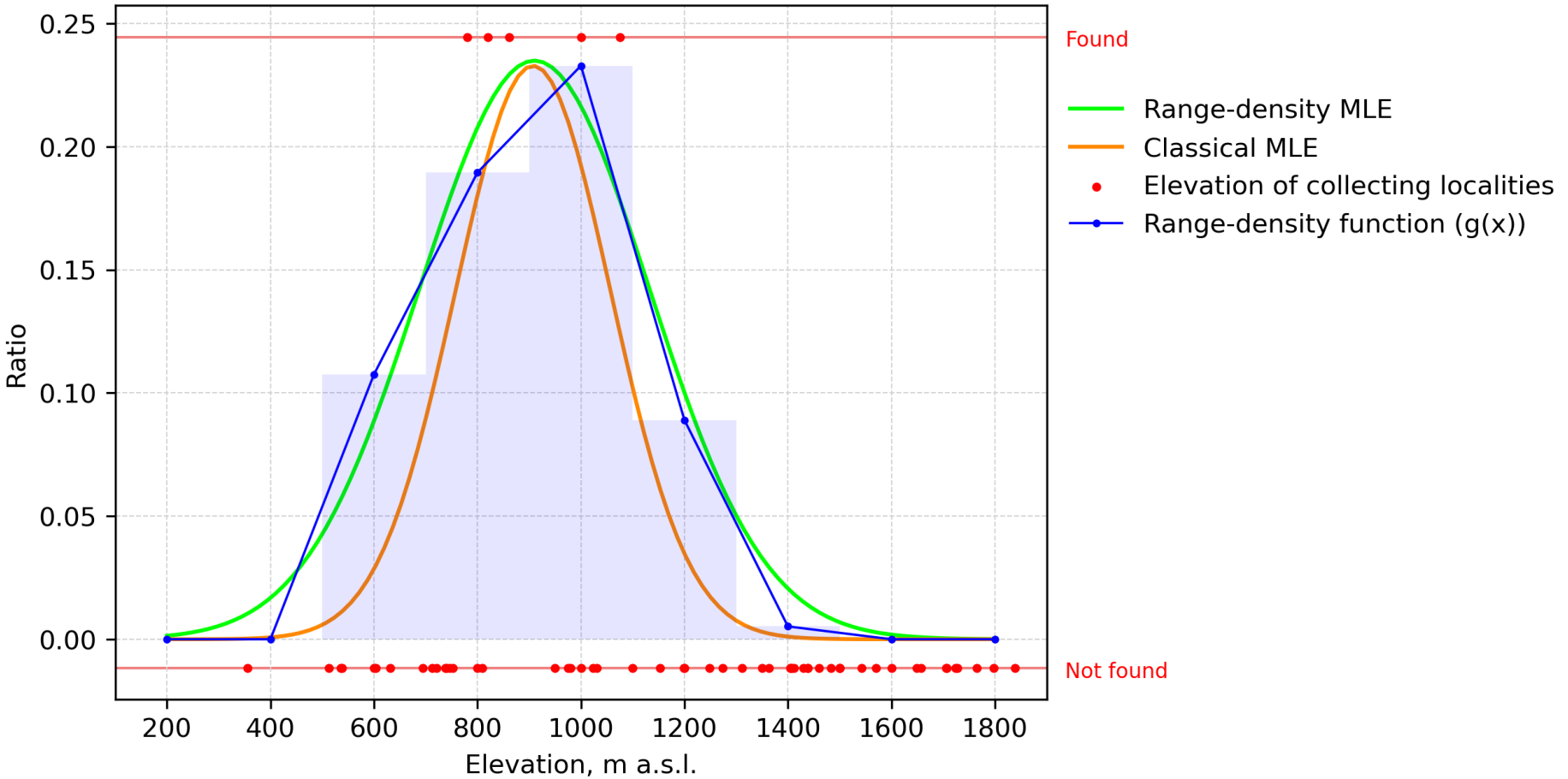


Figure 114. The ratio of the number of occurrences of Scapania undulata (L.) Dumort to the number of locations where the research was conducted

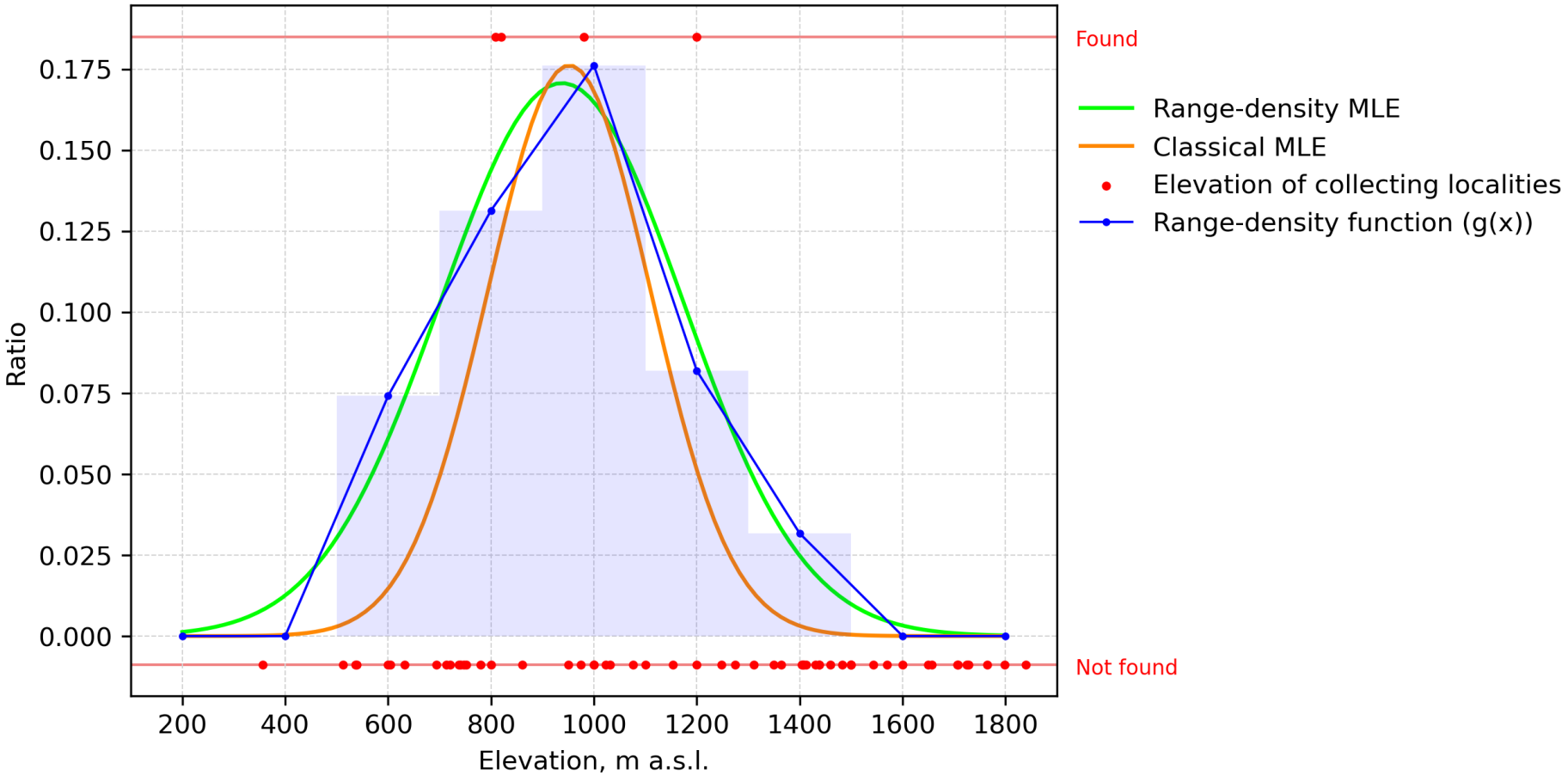


Figure 115. The ratio of the number of occurrences of Schistochilopsis cornuta (Steph.) Konstant to the number of locations where the research was conducted

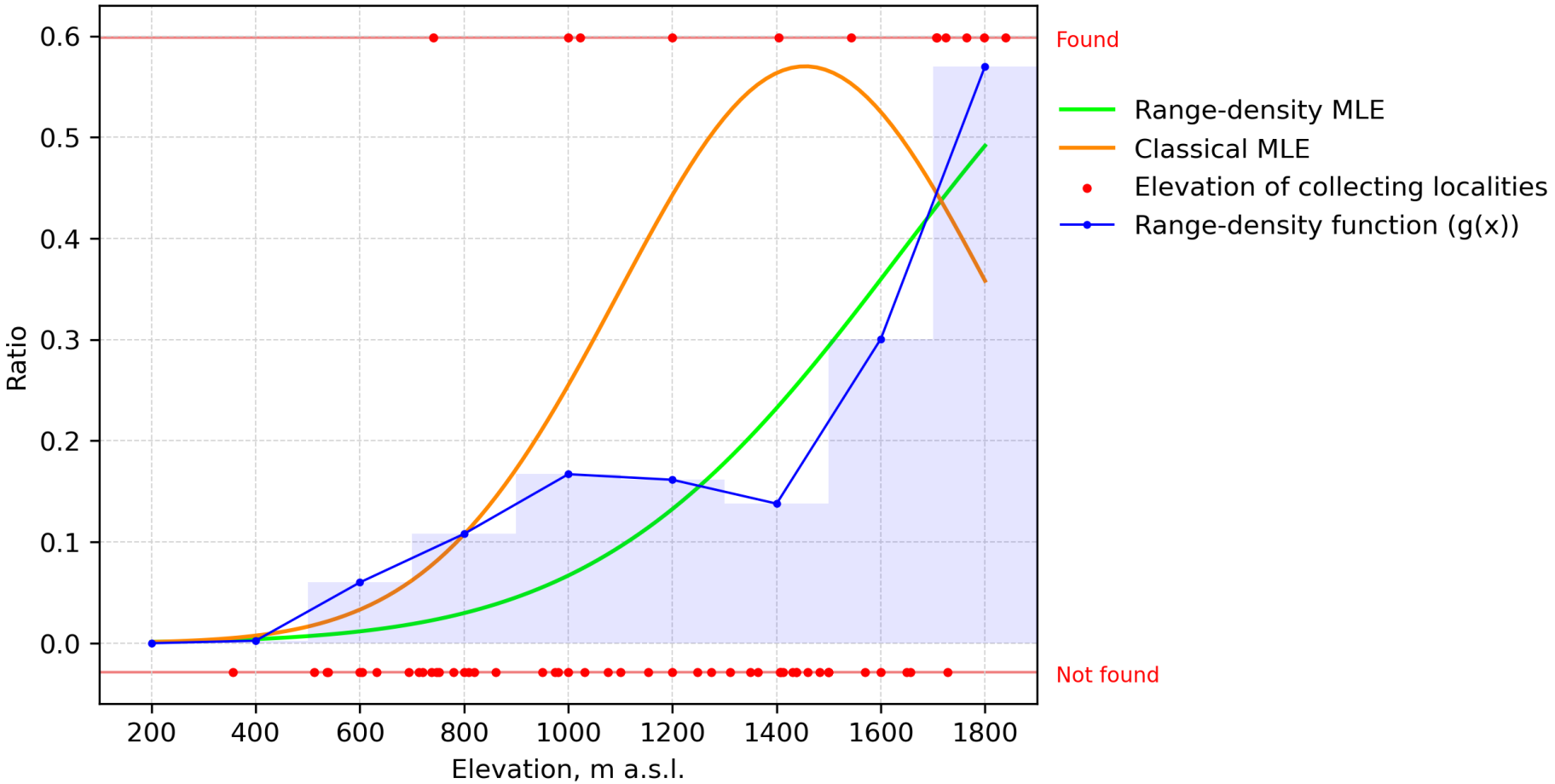


Figure 116. The ratio of the number of occurrences of Schistochilopsis incisa (Schrad.) Konstant to the number of locations where the research was conducted

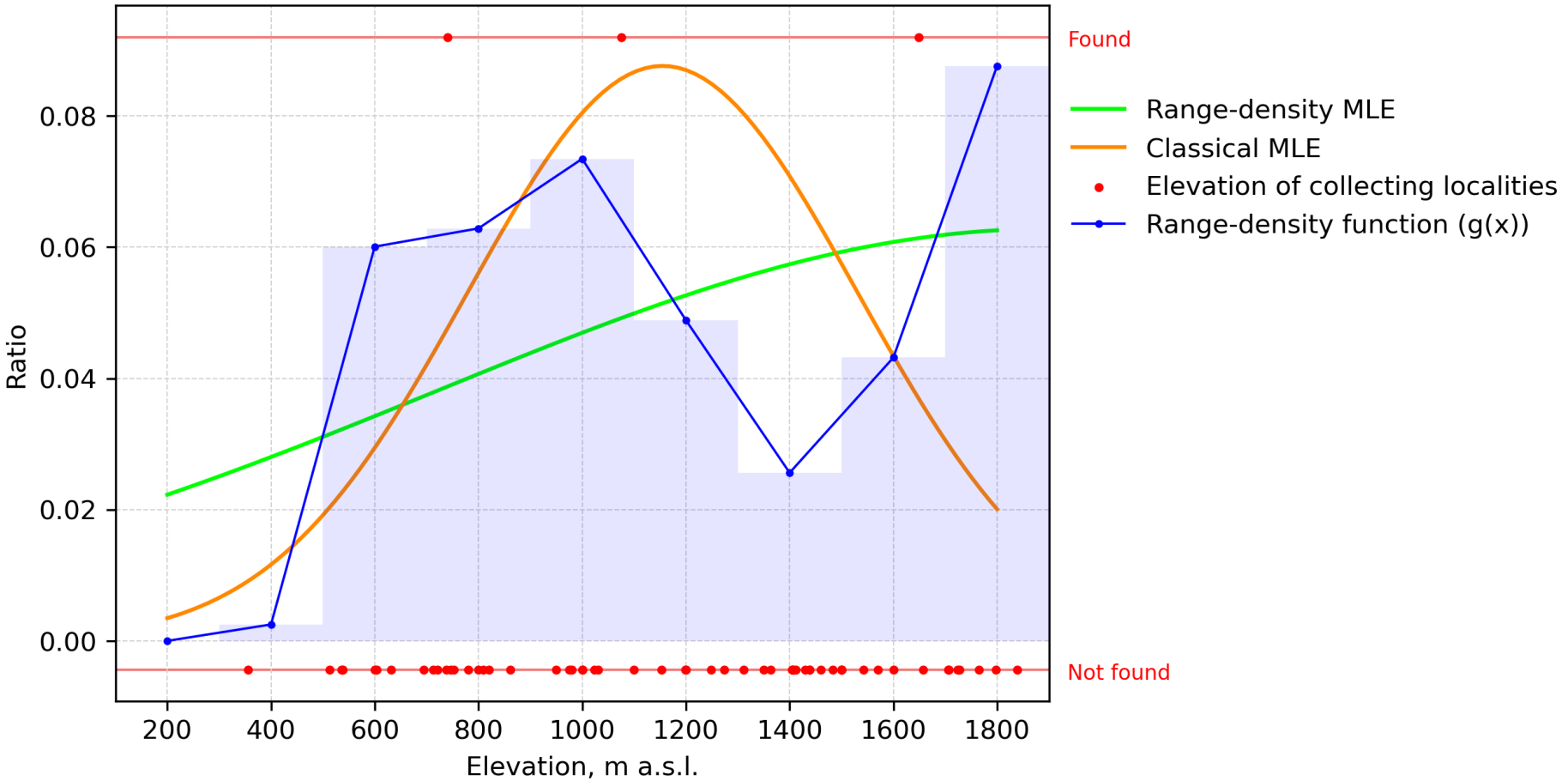


Figure 117. The ratio of the number of occurrences of Solenostoma obscurum (A. Evans) R.M. Schust to the number of locations where the research was conducted

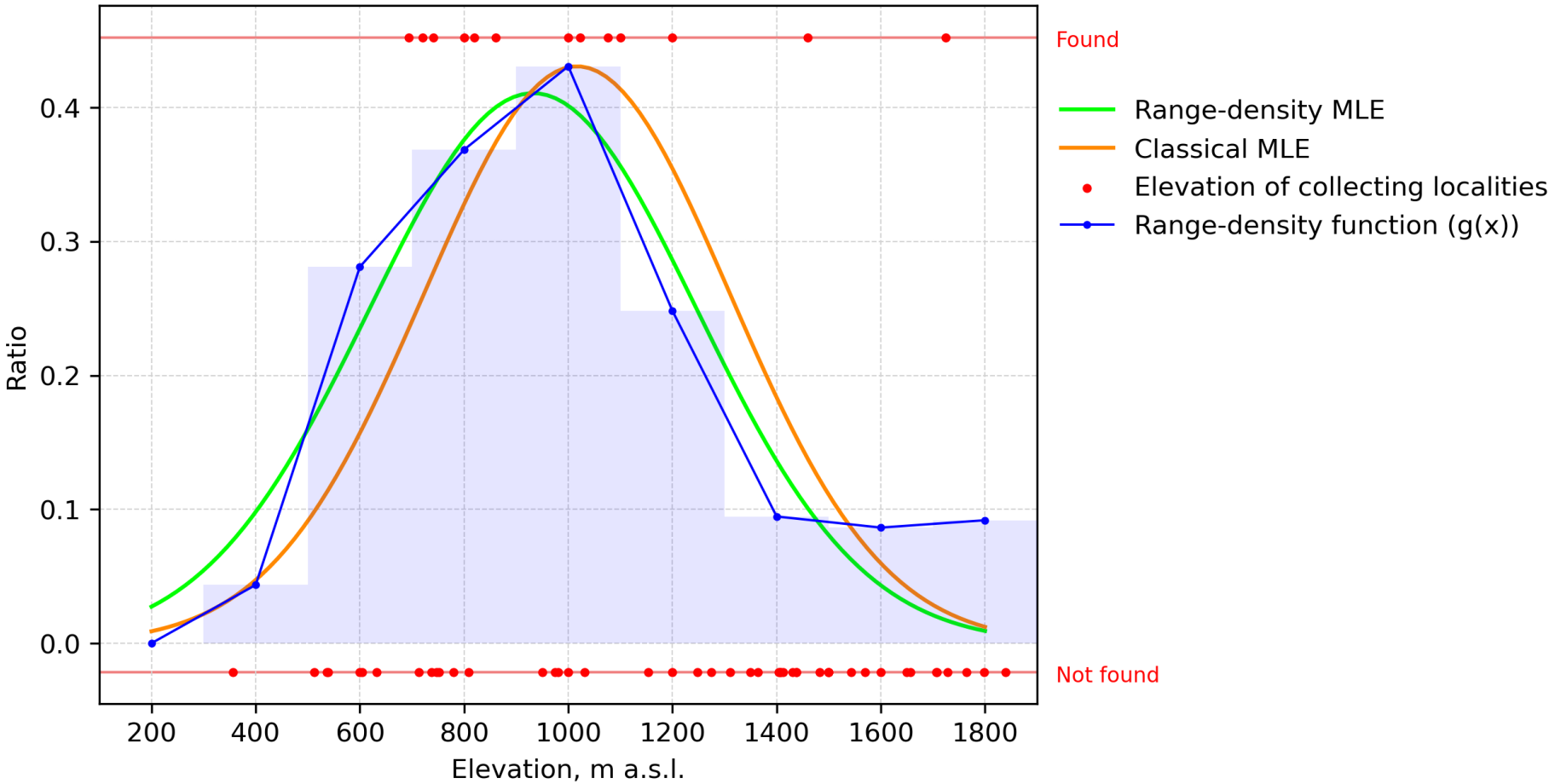


Figure 118. The ratio of the number of occurrences of Solenostoma pseudopyriflorum Bakalin et Vilnet to the number of locations where the research was conducted

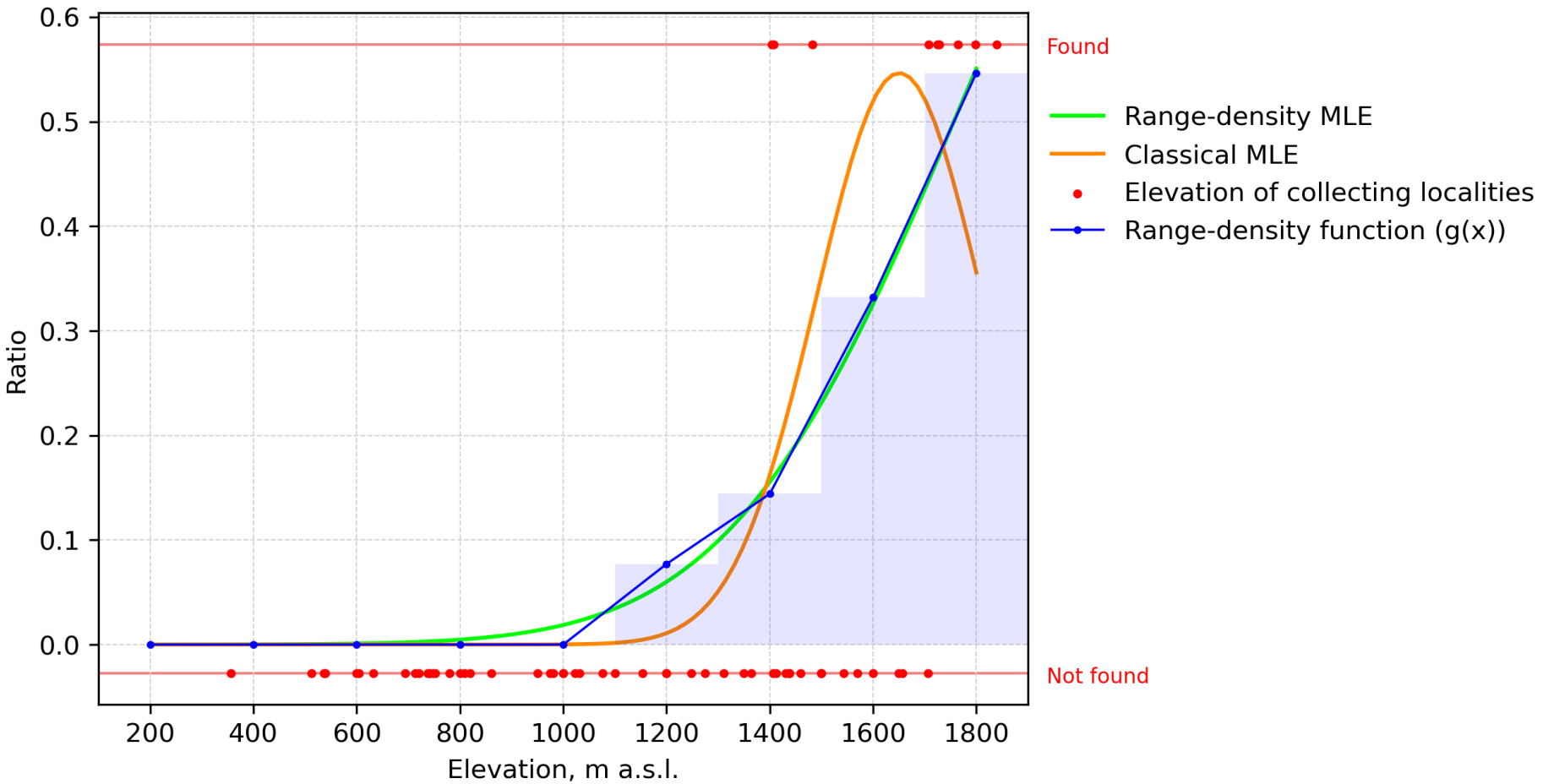


Figure 119. The ratio of the number of occurrences of Sphenolobus minutus (Schreb.) Berggr to the number of locations where the research was conducted

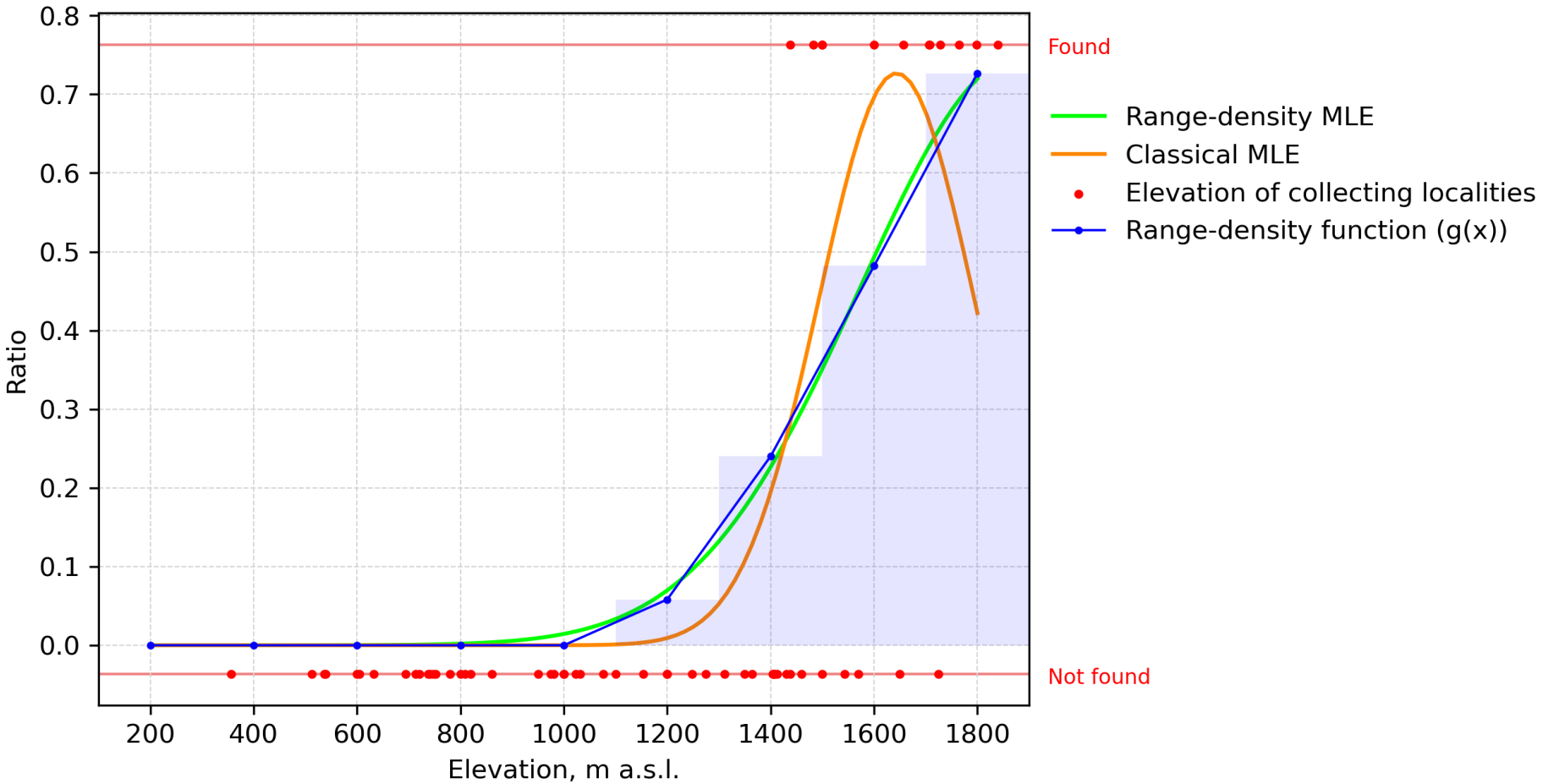


Figure 120. The ratio of the number of occurrences of Sphenolobus saxicola (Schrad.) Steph to the number of locations where the research was conducted

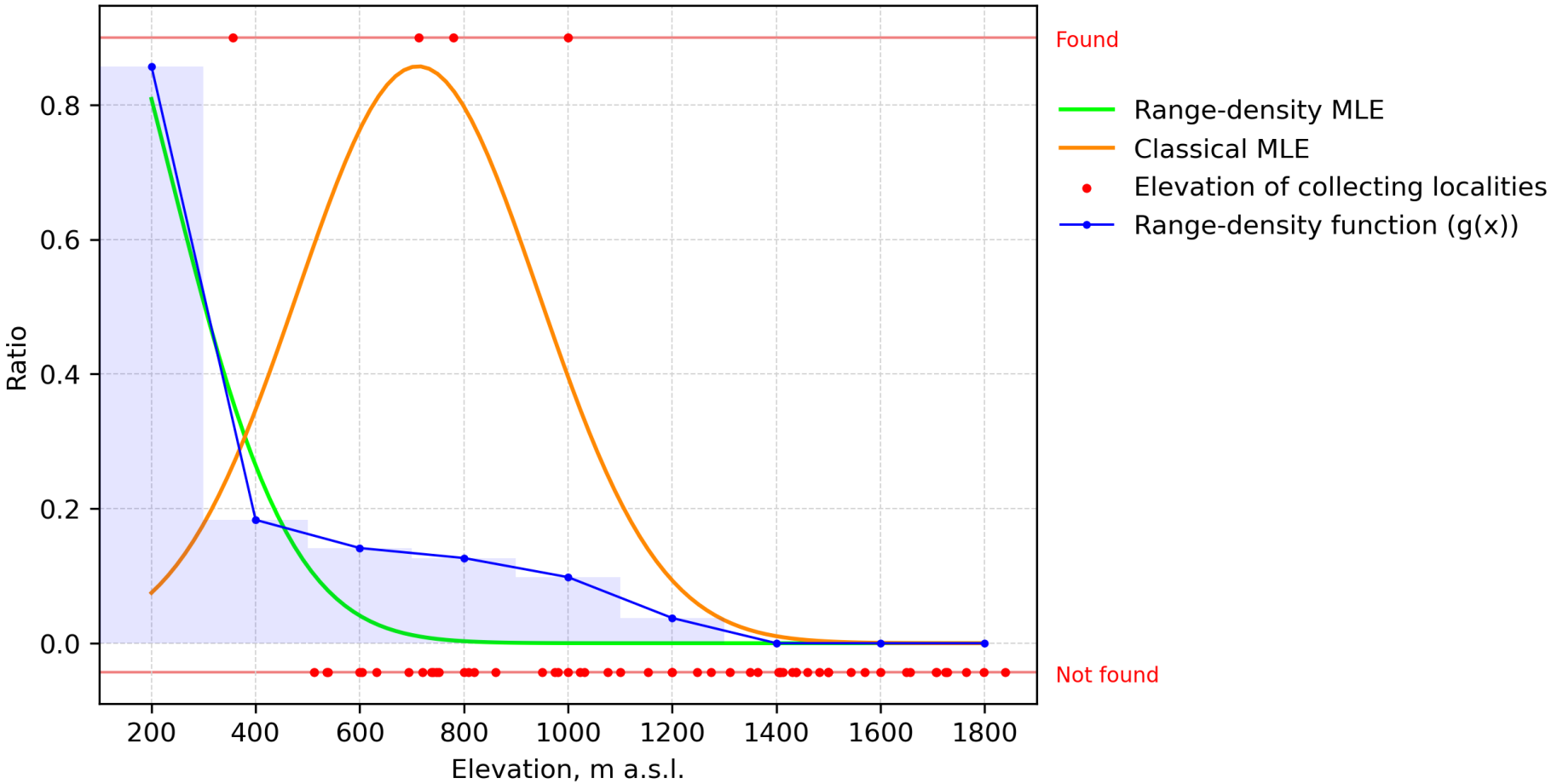


Figure 121. The ratio of the number of occurrences of Syzygiella autumnalis (DC.) K.Feldberg, Vá■a, Hentschel et Heinrichs to the number of locations where the research was conducted

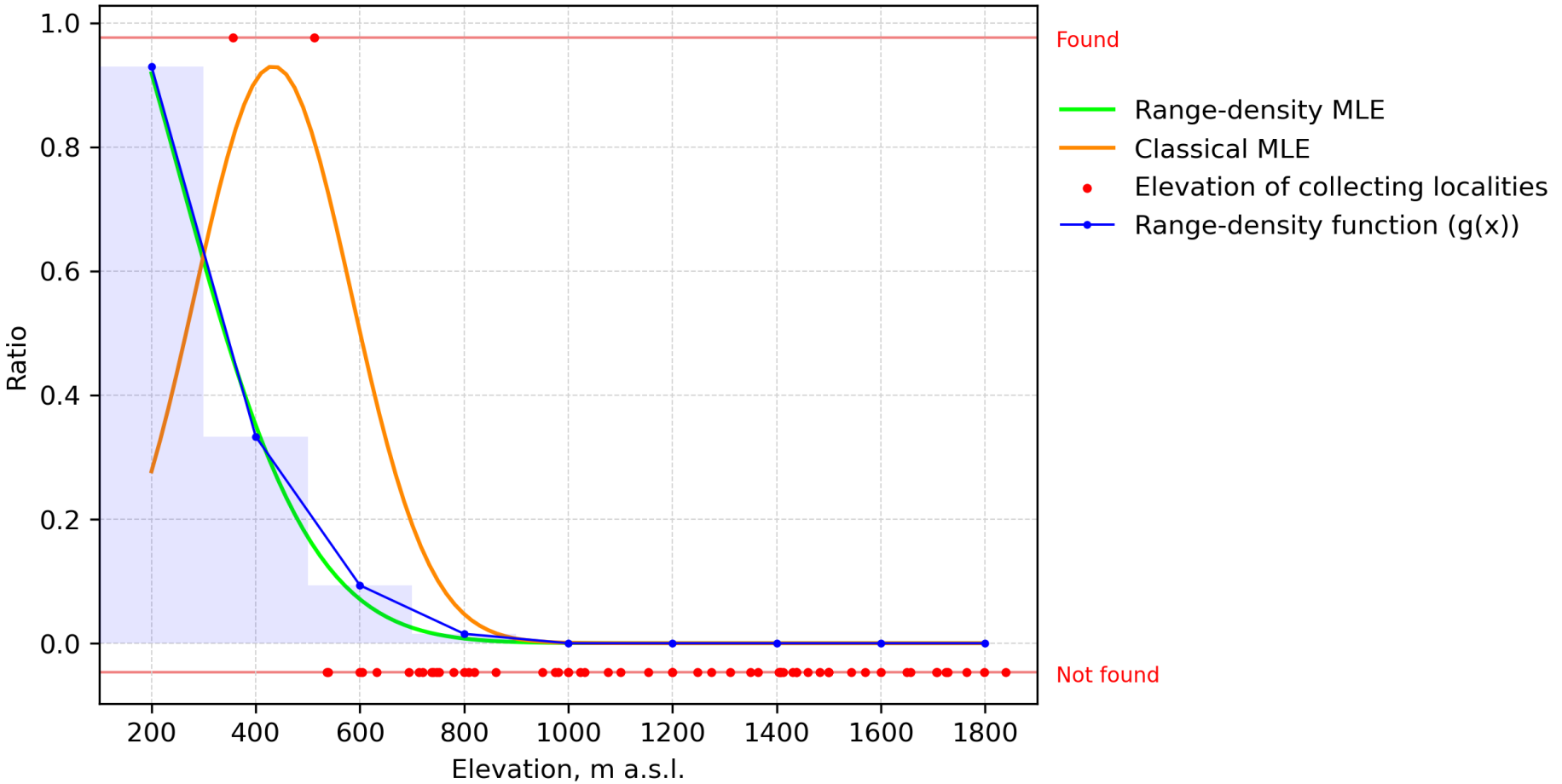


Figure 122. The ratio of the number of occurrences of Targionia hypophylla L to the number of locations where the research was conducted

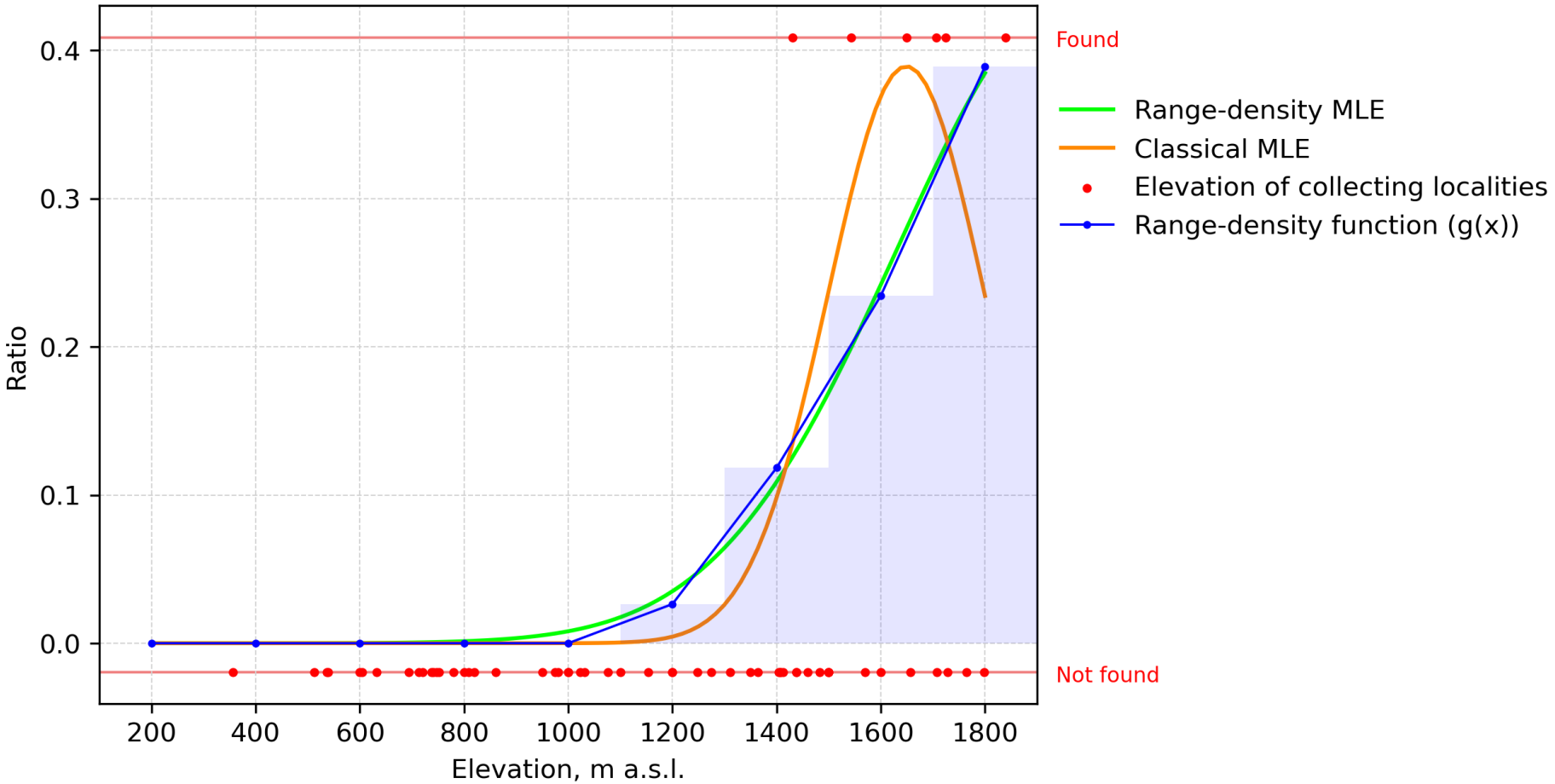


Figure 123. The ratio of the number of occurrences of Trilophozia quinquedentata (Huds.) Bakalin to the number of locations where the research was conducted

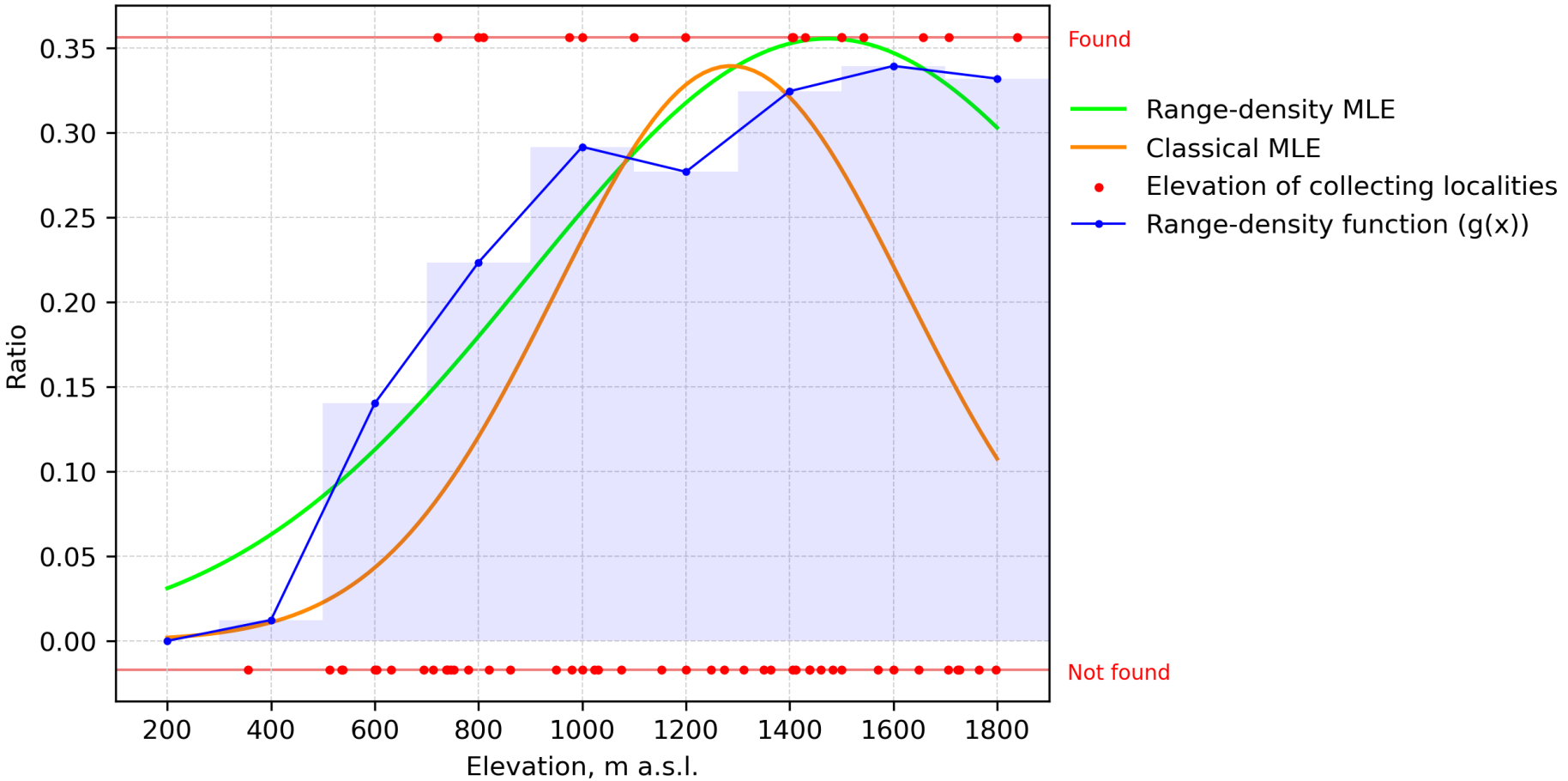


Figure 124. The ratio of the number of occurrences of Tritomaria exsecta (Schmidel) Schiffn. ex Loeske to the number of locations where the research was conducted