

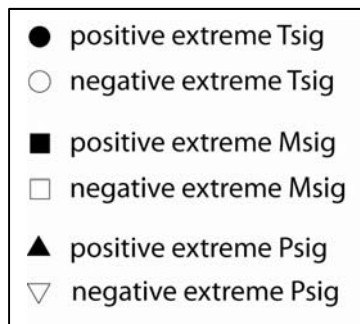
Supplementary material

500 years of regional forest growth variability and links to climatic extreme events in Europe

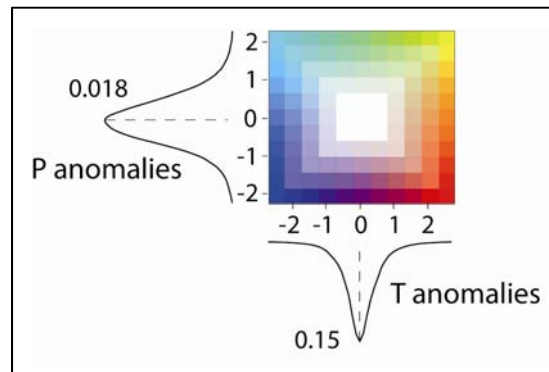
This document contains annual maps of forest growth extremes at temperature, precipitation and mixed sensitive sites in Europe for the period 1500-2008. Over the instrumental period (1901-2006, CRU TS 3.0 data, Mitchell and Jones 2005), April-July temperature and precipitation anomalies are additionally displayed for visual comparison with radial tree growth.

The following legends apply to all maps shown and correspond to figure 4 in the main text. Please note that small symbols indicate isolated growth extremes whereas large symbols indicate growth extremes in the current and the following year.

Legend growth extremes:



Legend climate anomalies (units in standard deviations):



References:

Mitchell C, Jones P 2005 An improved method of constructing a database of monthly climate observations and associated high-resolution grids *International Journal of Climatology* **25** 693-712

growth anomalies1500



growth anomalies1501



growth anomalies1502



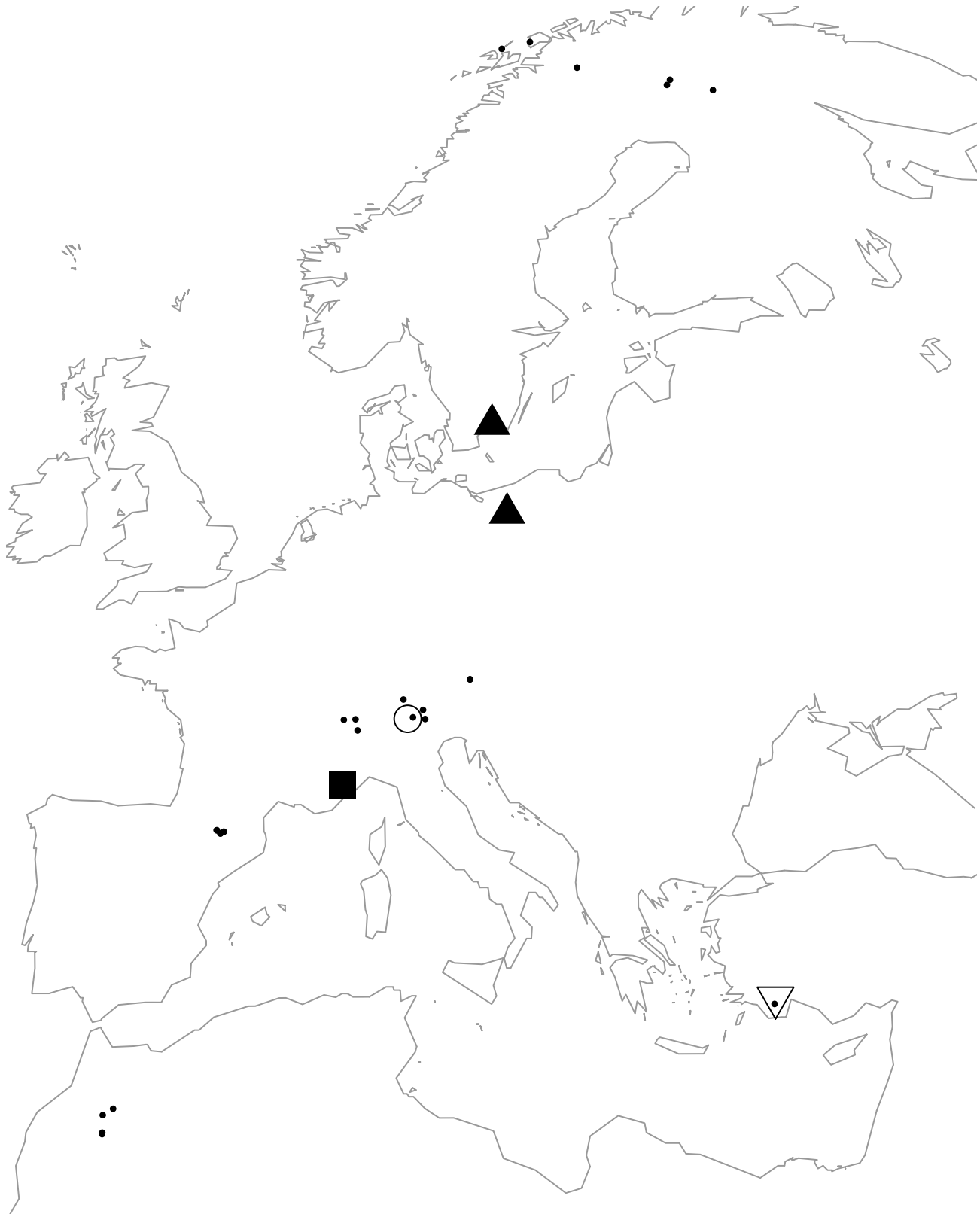
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growth anomalies1505



growth anomalies1507



growth anomalies1509



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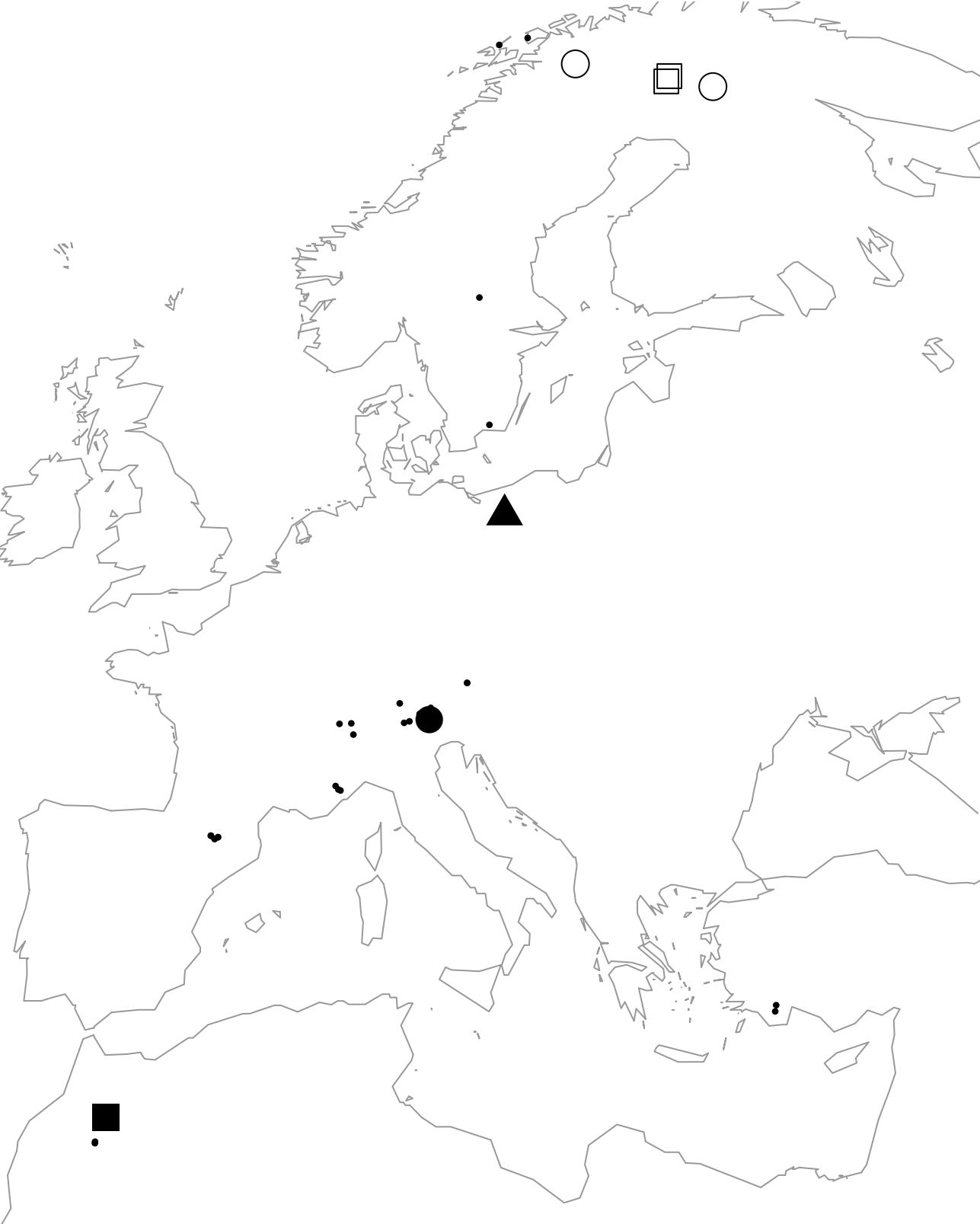
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growth anomalies1517



growth anomalies1518



growth anomalies1519



growth anomalies1520



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growth anomalies1523



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growth anomalies1525



growth anomalies1526



growth anomalies1527



growth anomalies1528



growth anomalies1529



growth anomalies1530



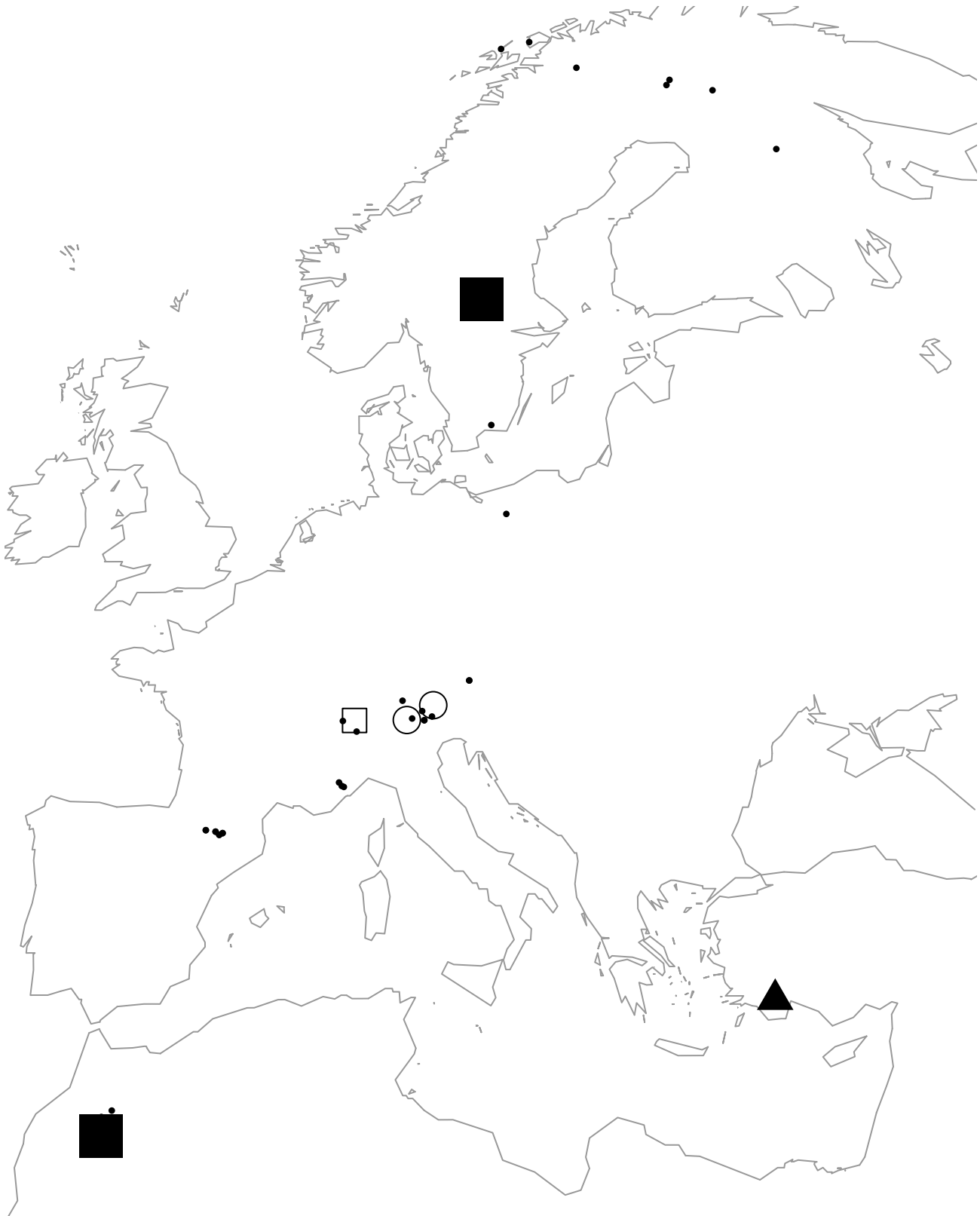
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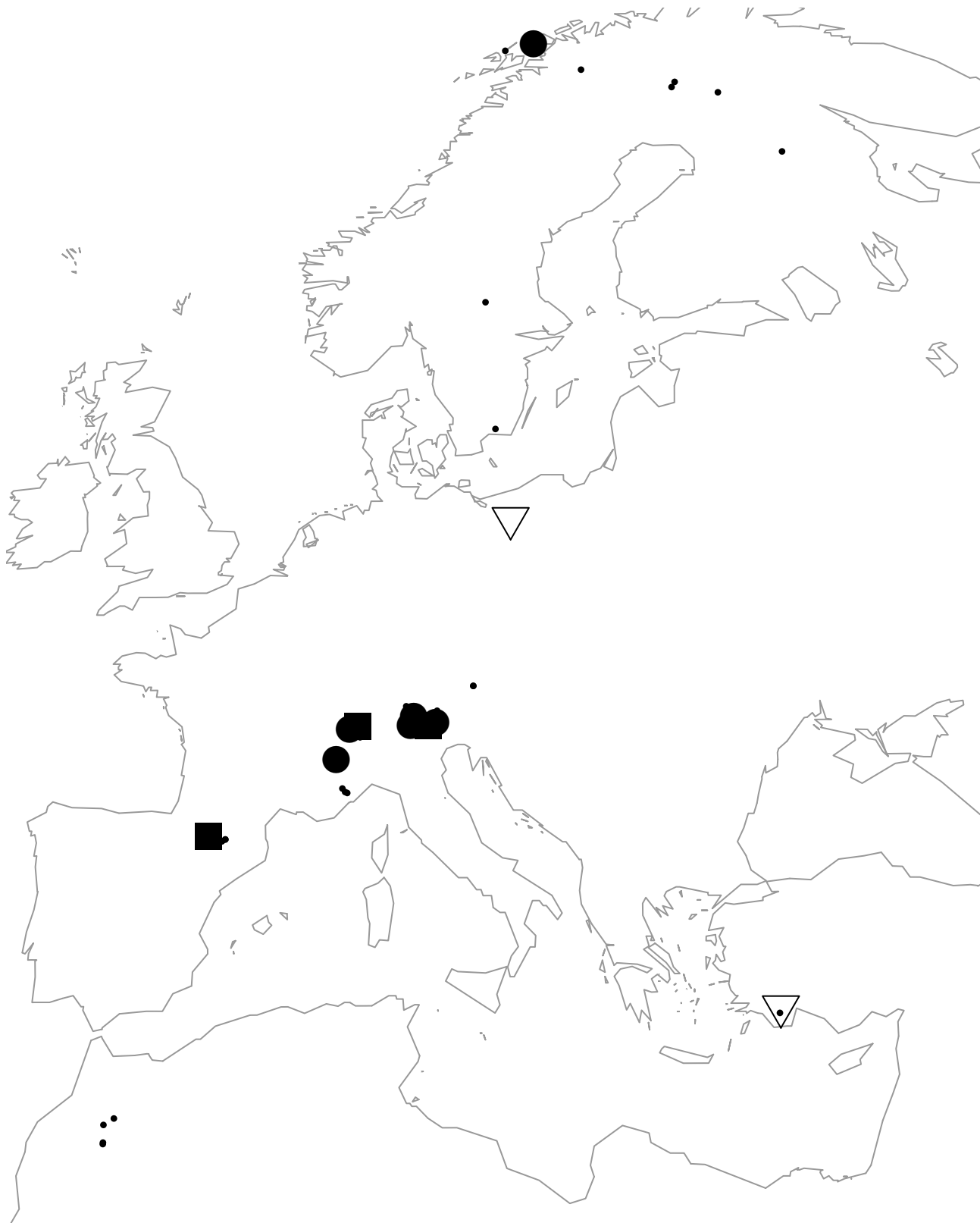
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growth anomalies1550



growth anomalies1551



growth anomalies1552



growth anomalies1553



growth anomalies1554



growth anomalies1555



growth anomalies1556



growth anomalies1557



growth anomalies1558



growth anomalies1559



growth anomalies1560



growth anomalies1561



growth anomalies1562



growth anomalies1563



growth anomalies1564



growth anomalies1565



growth anomalies1566



growth anomalies1567



growth anomalies1568



growth anomalies1569



growth anomalies1571



growth anomalies1572



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growth anomalies1577



growth anomalies1578



growth anomalies1579



growth anomalies1580



growth anomalies1581



growth anomalies1582



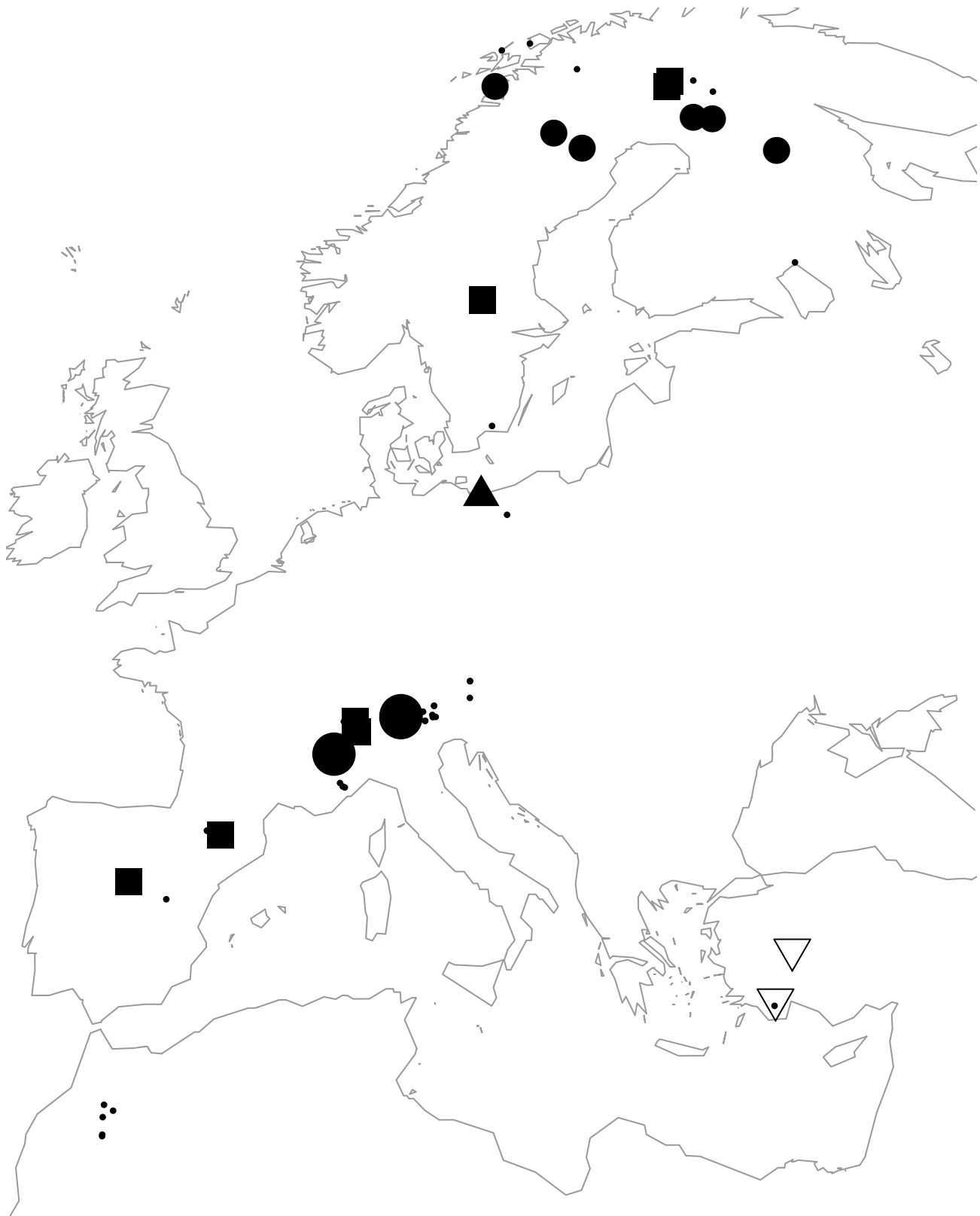
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growth anomalies1585



growth anomalies1586



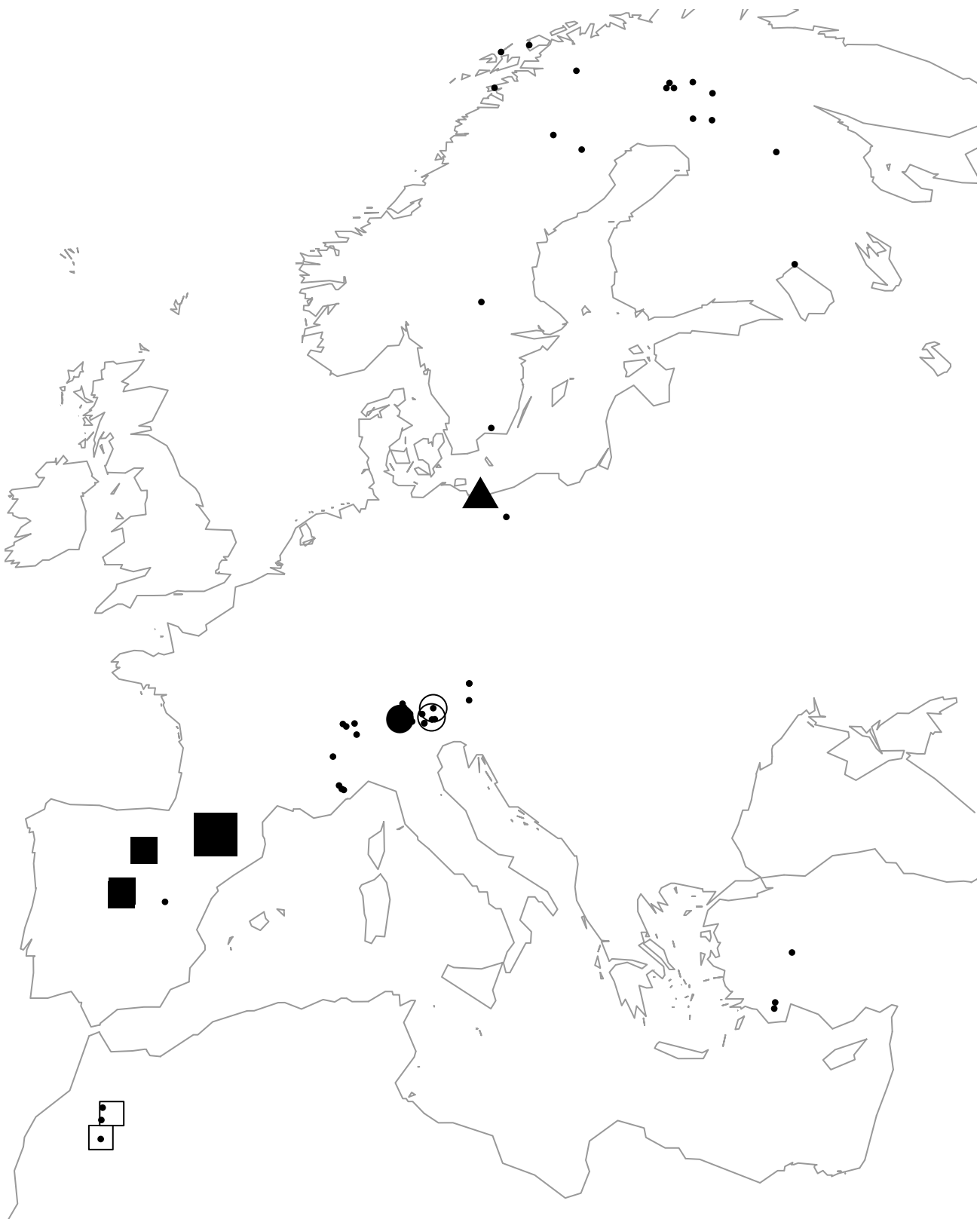
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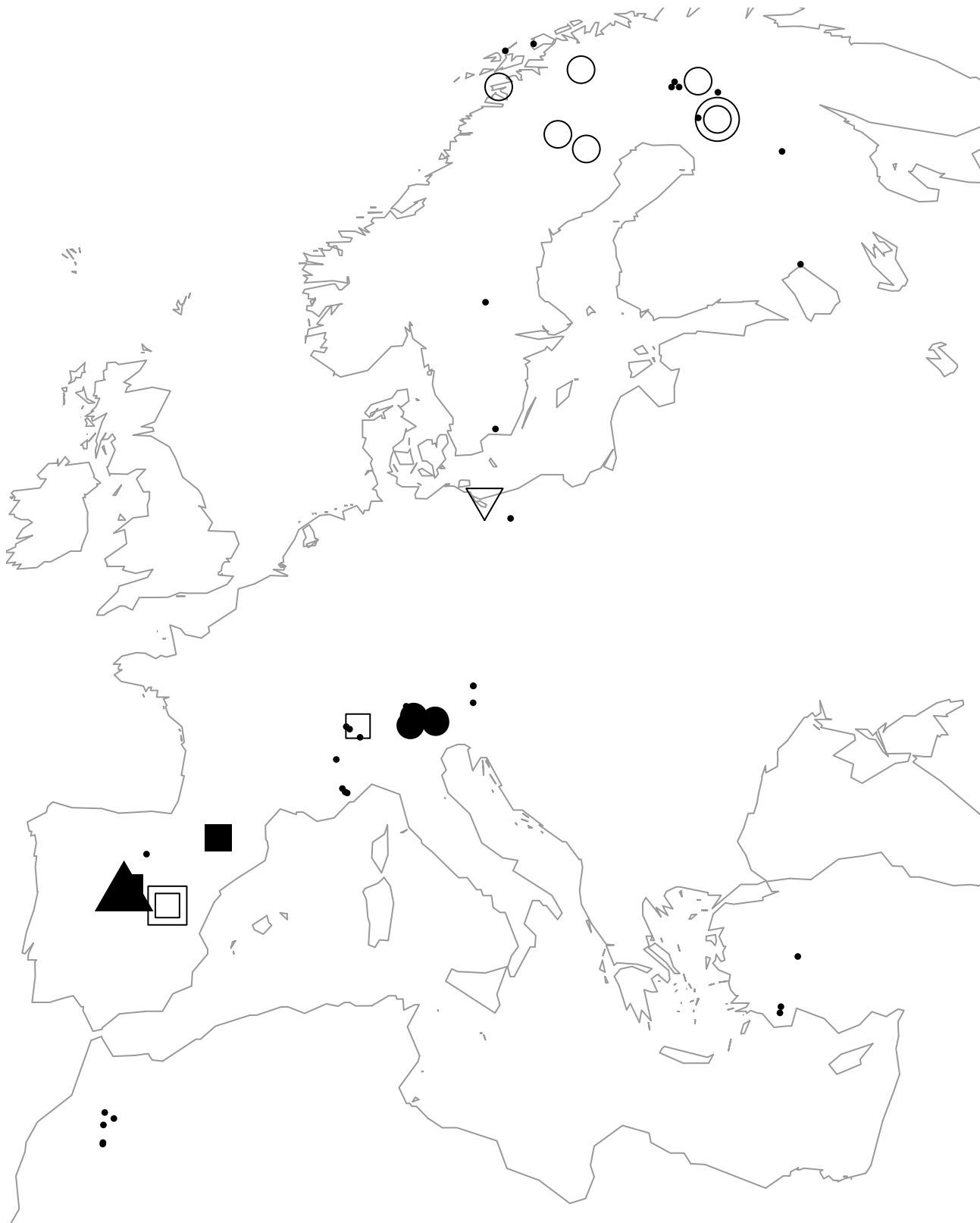
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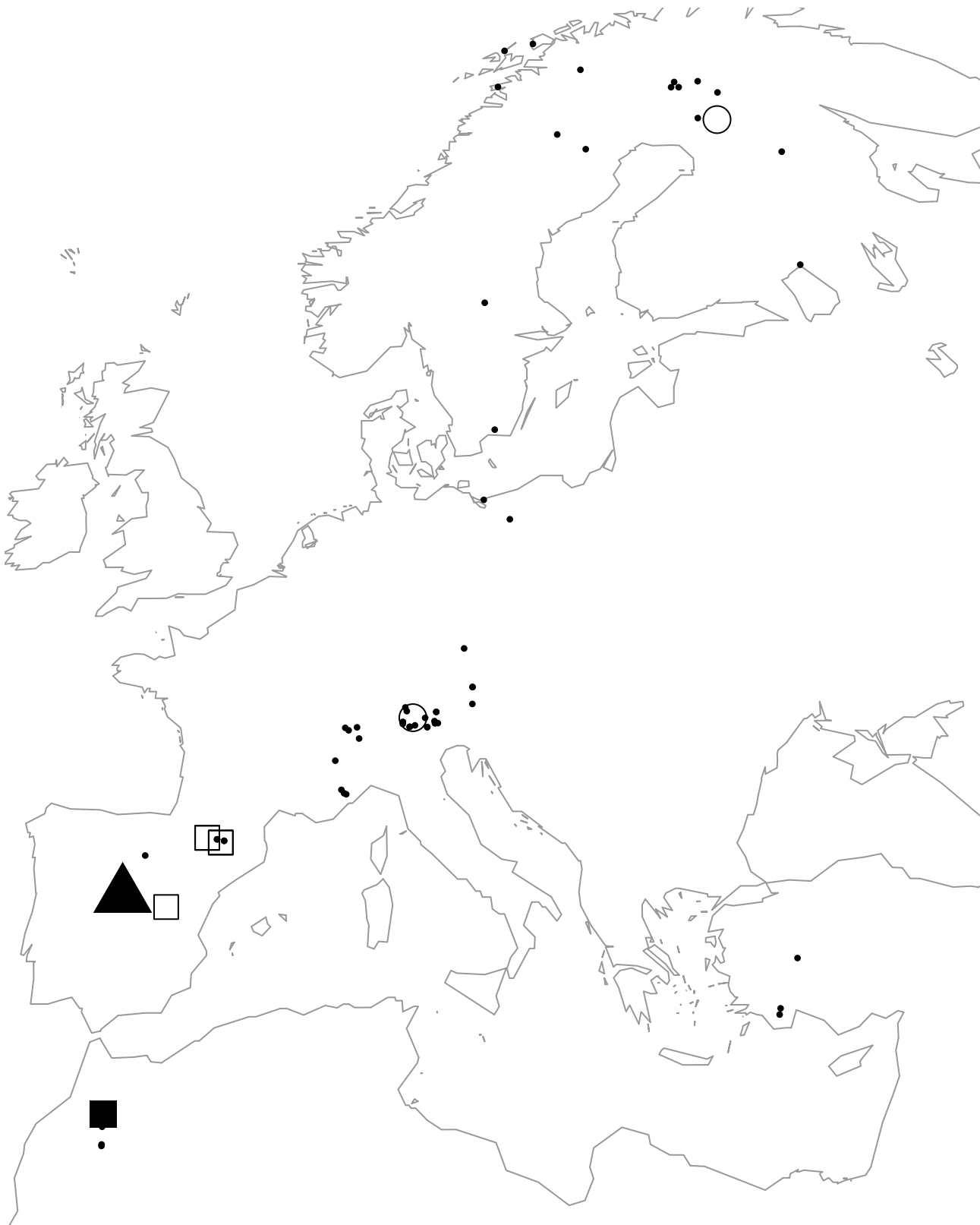
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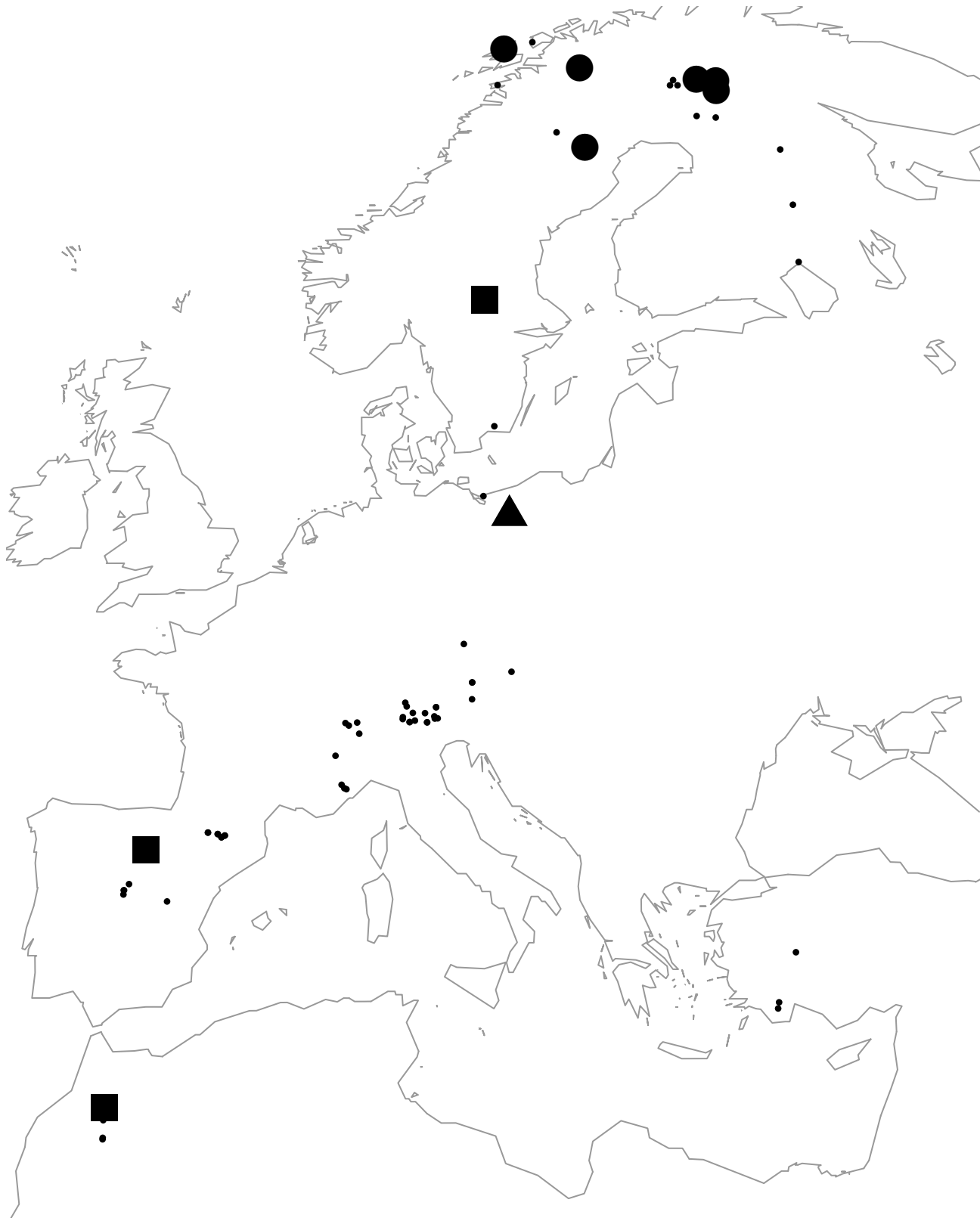
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growth anomalies1594



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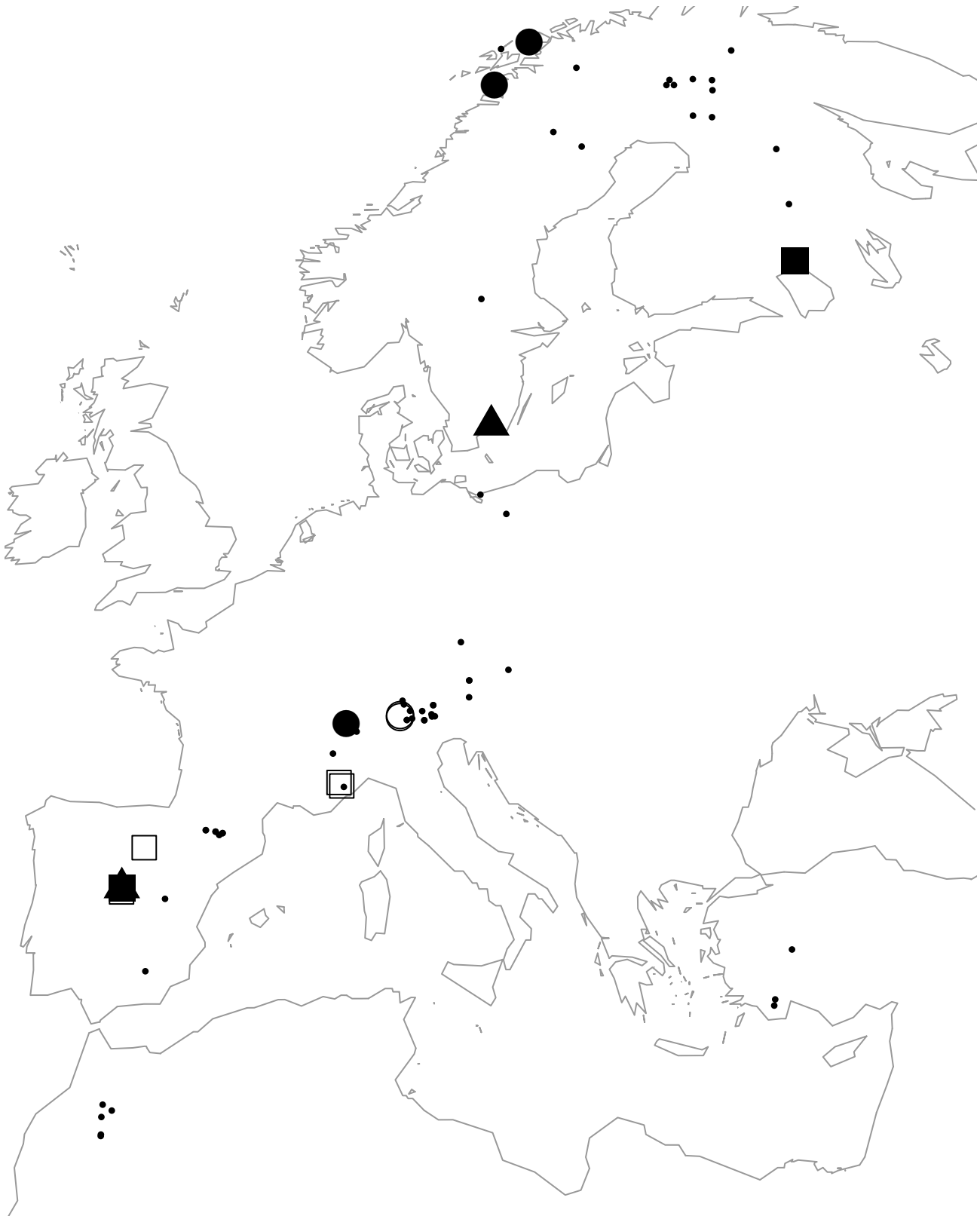
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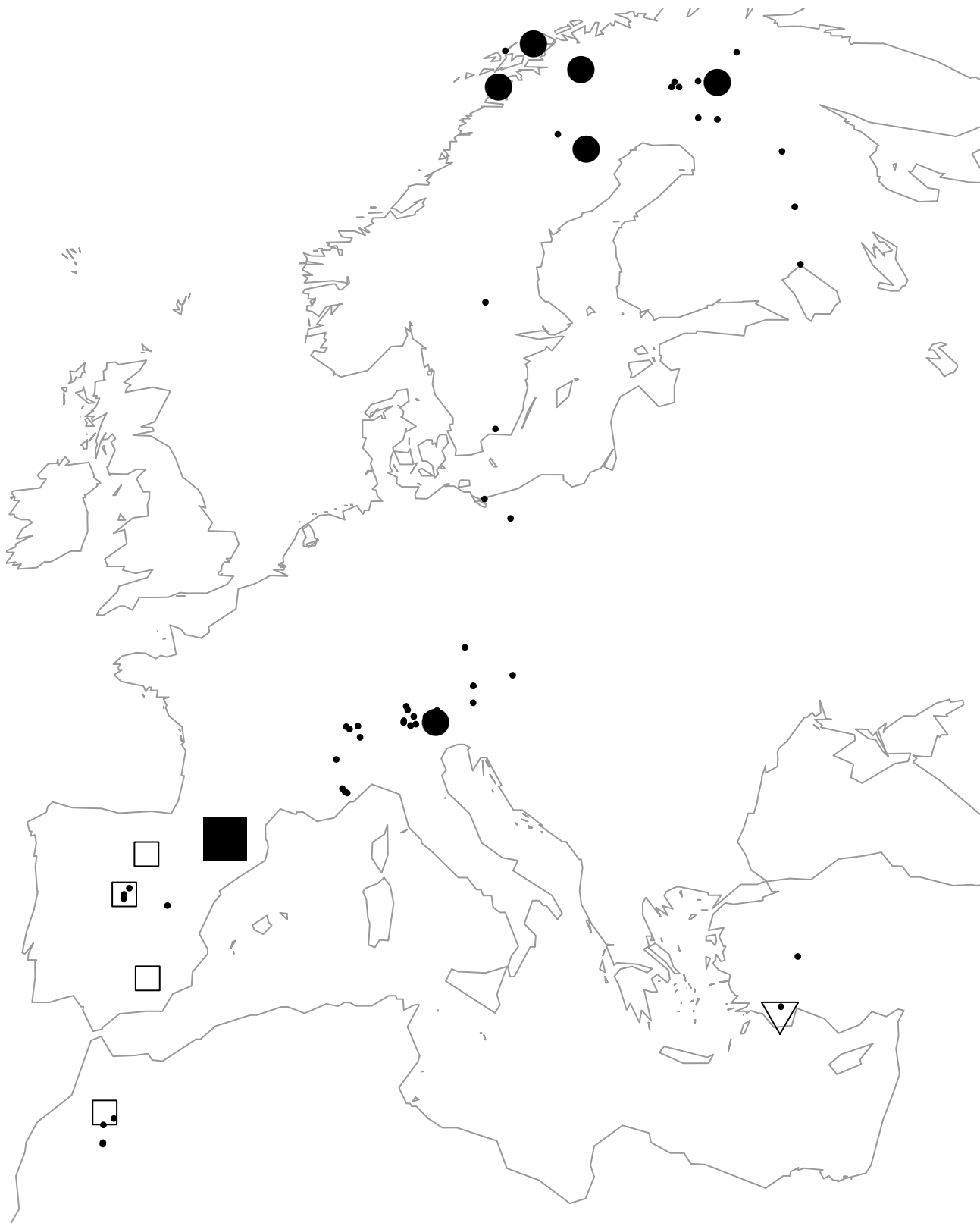
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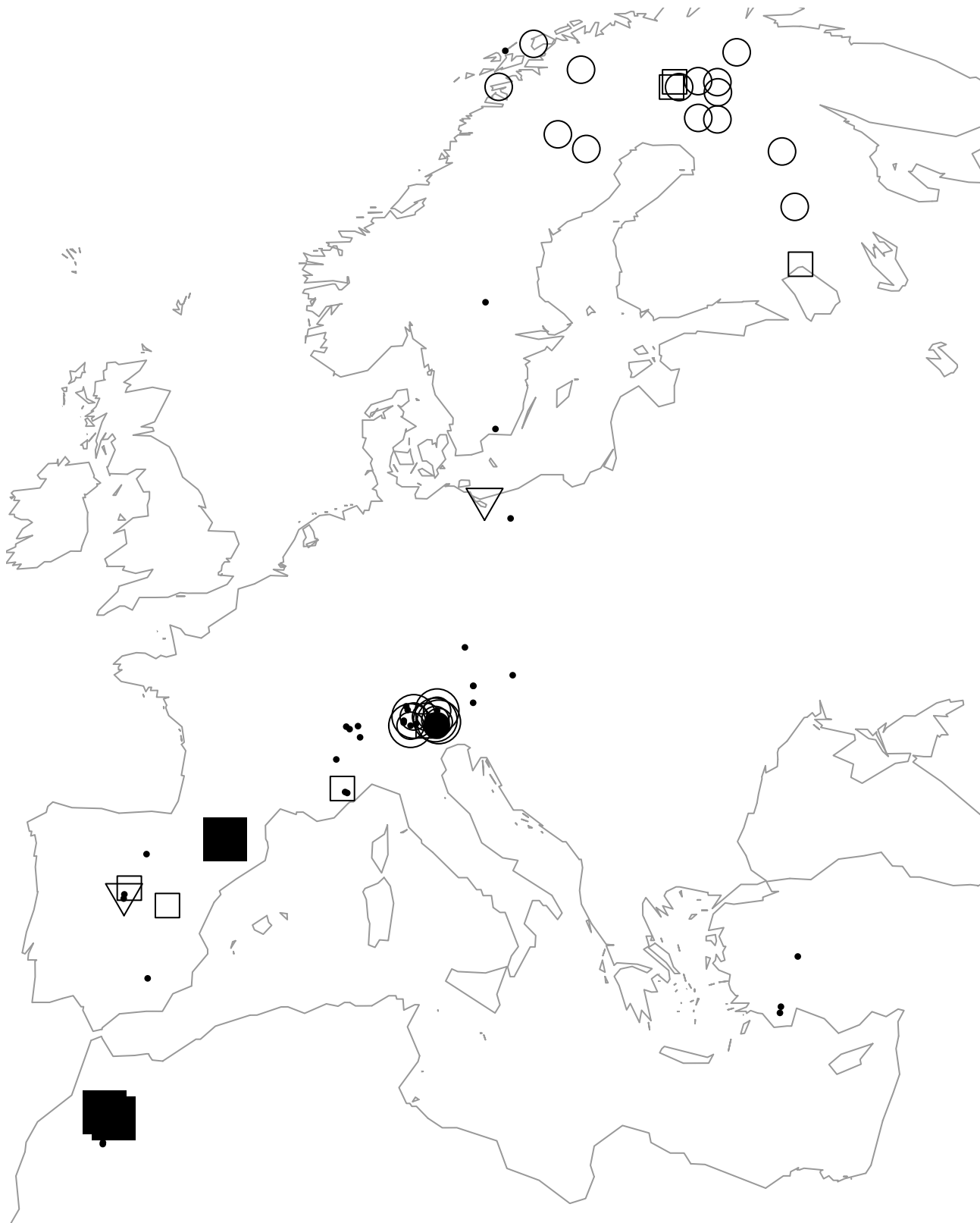
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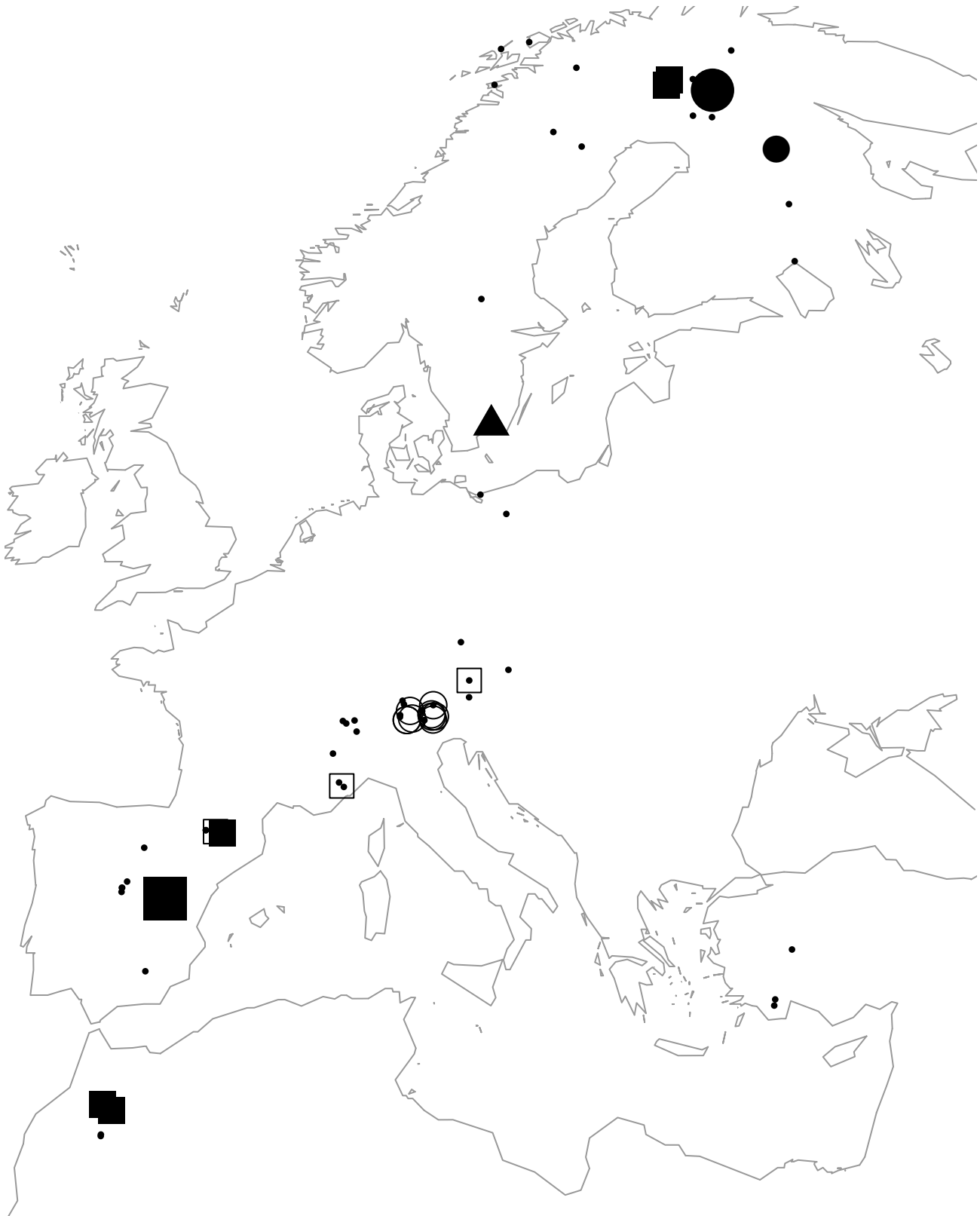
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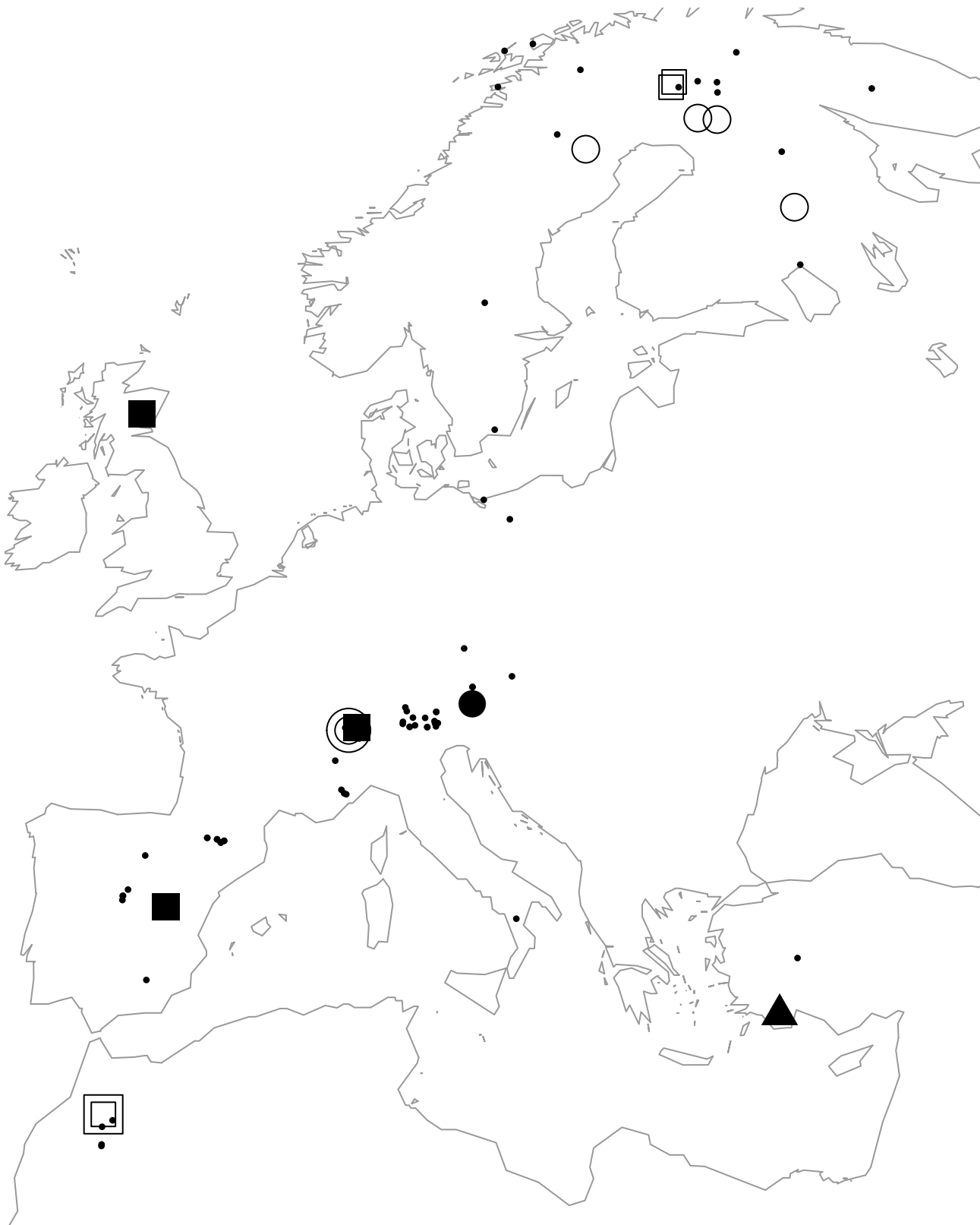
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growth anomalies1604



growth anomalies1605



growth anomalies1606



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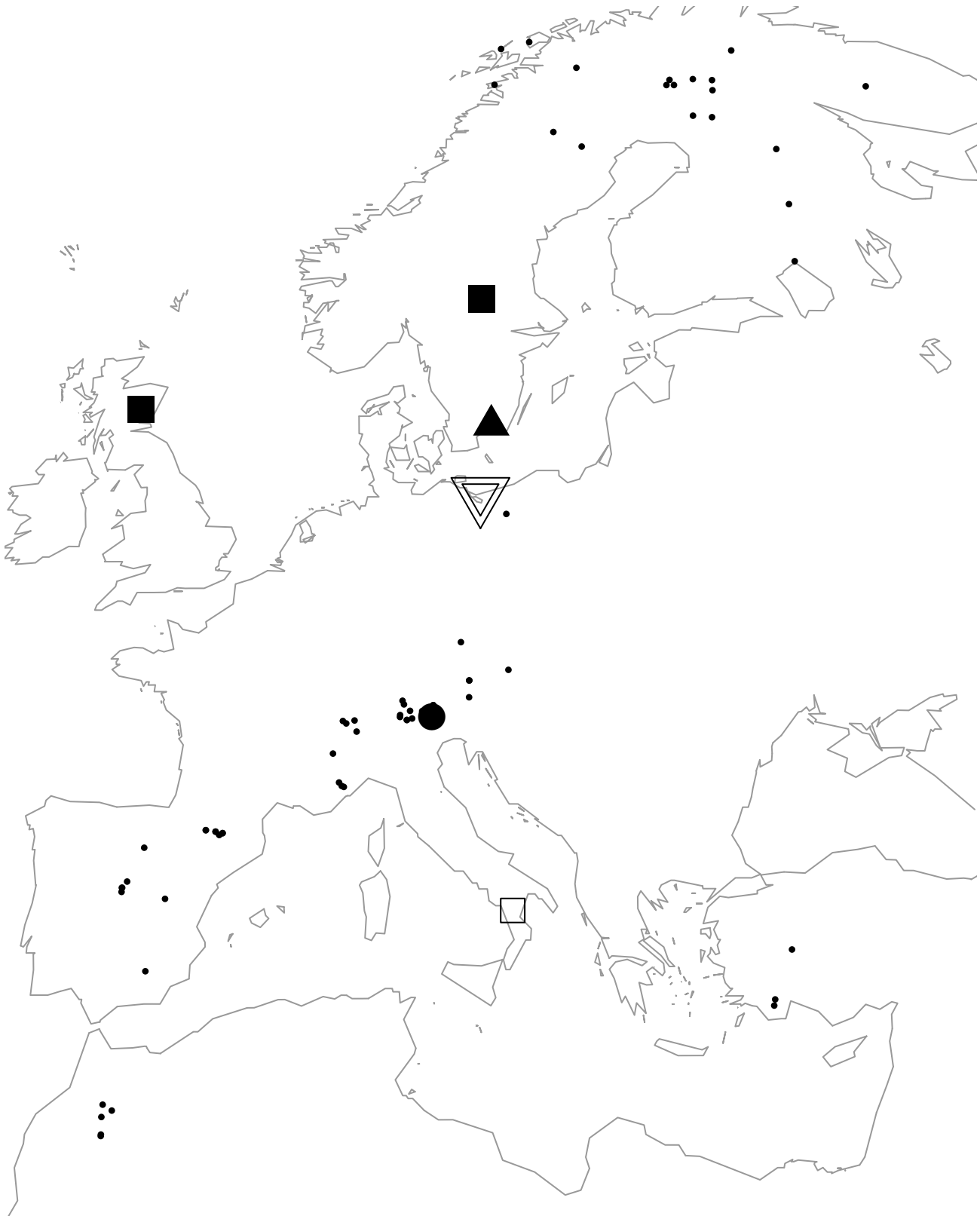
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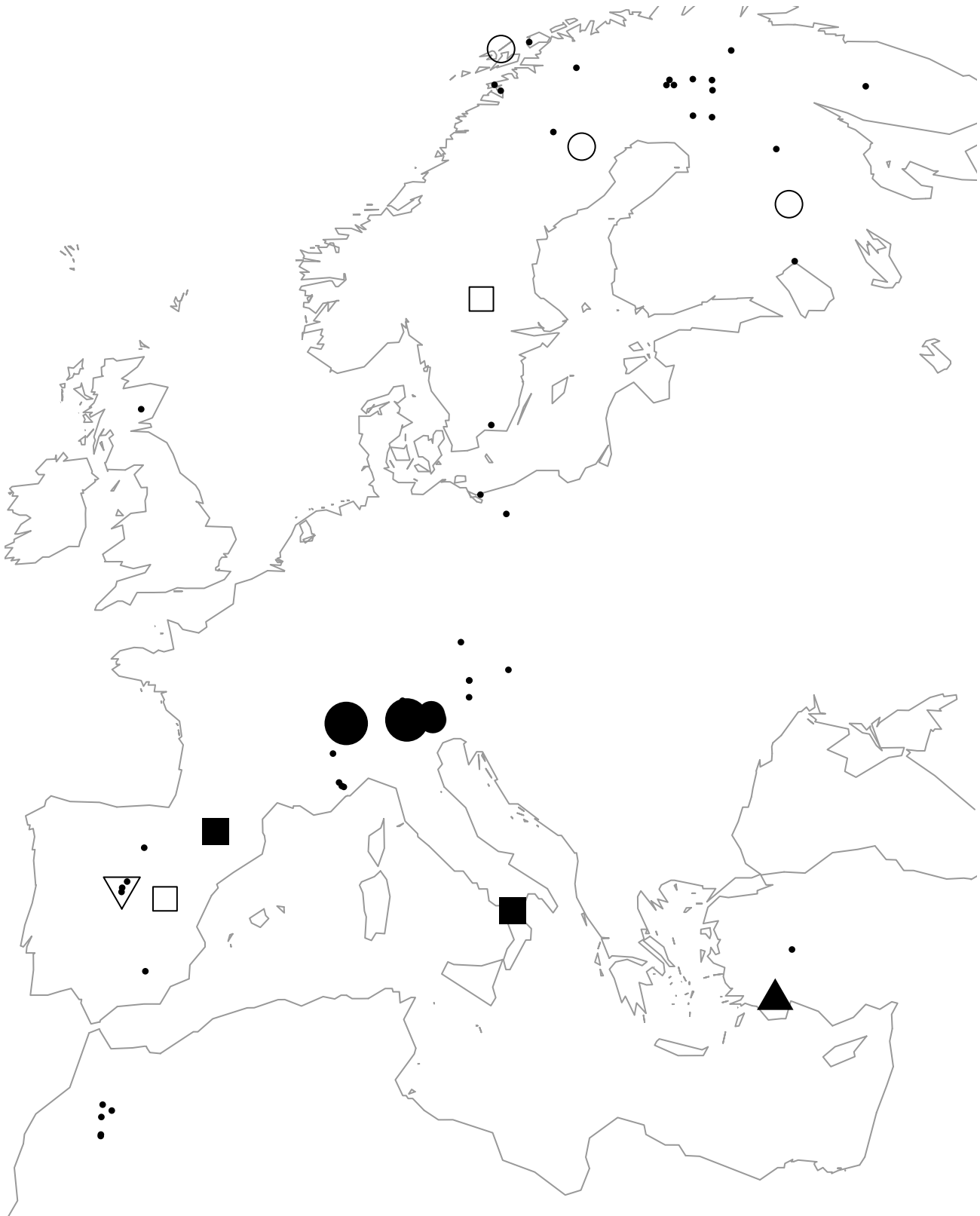
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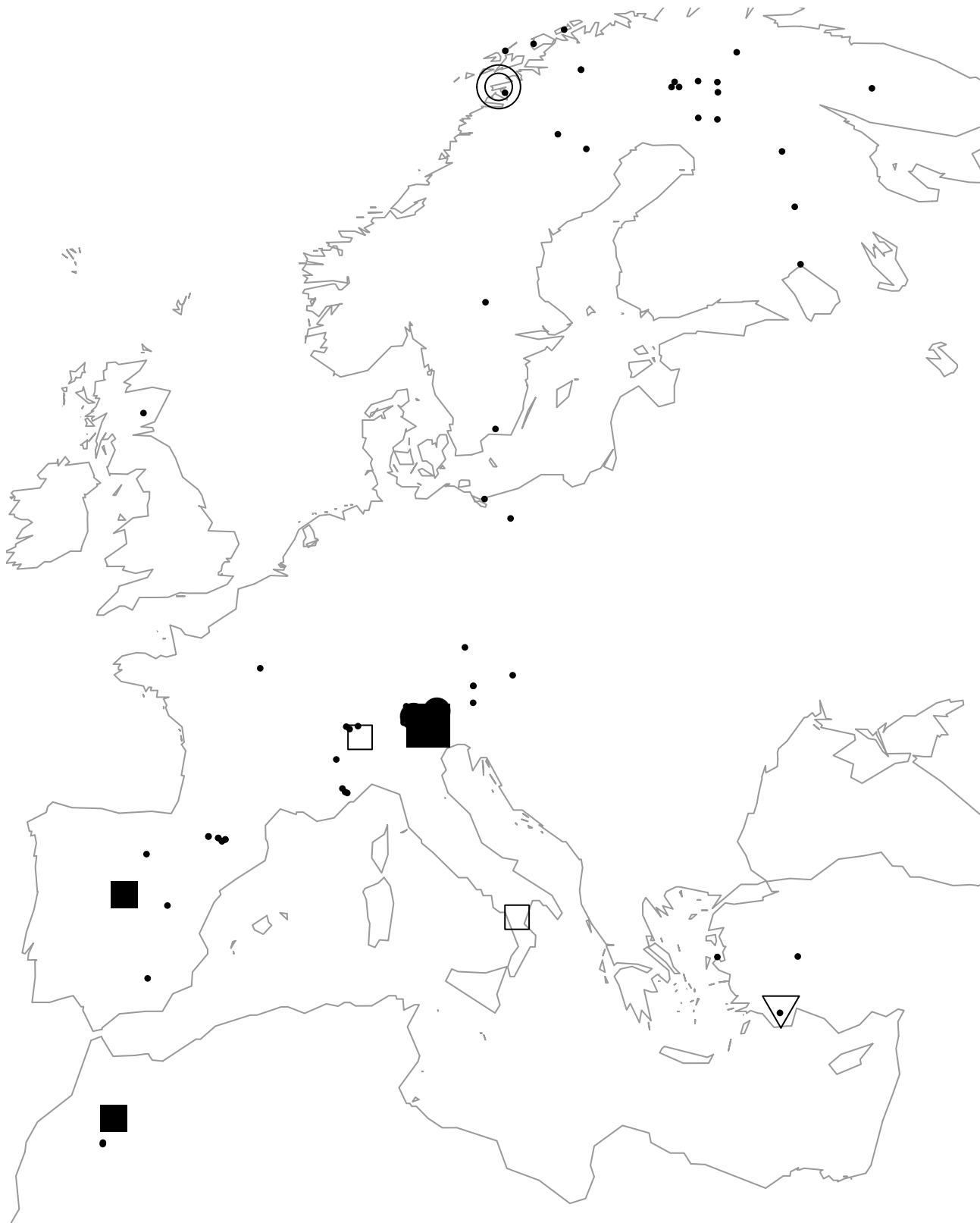
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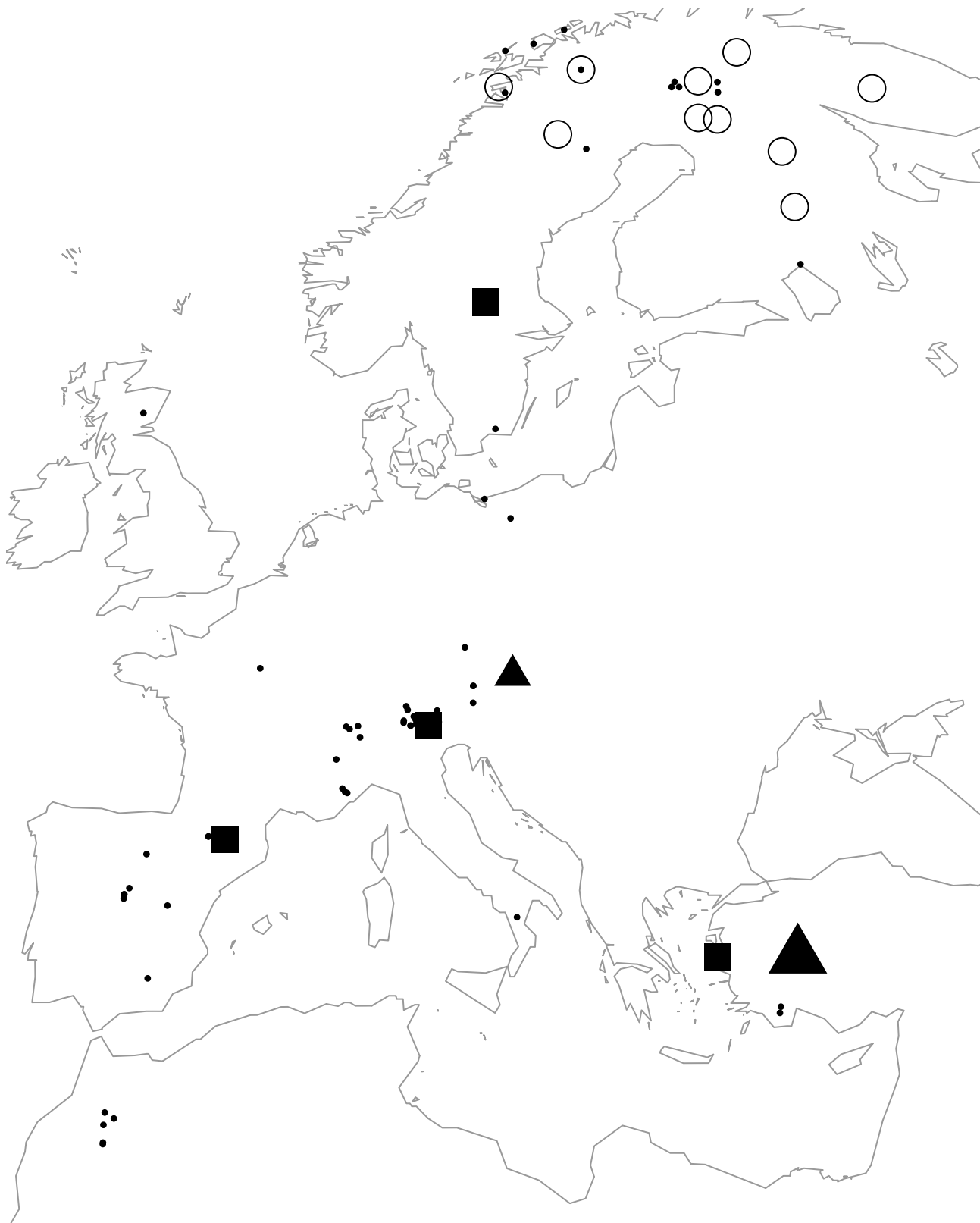
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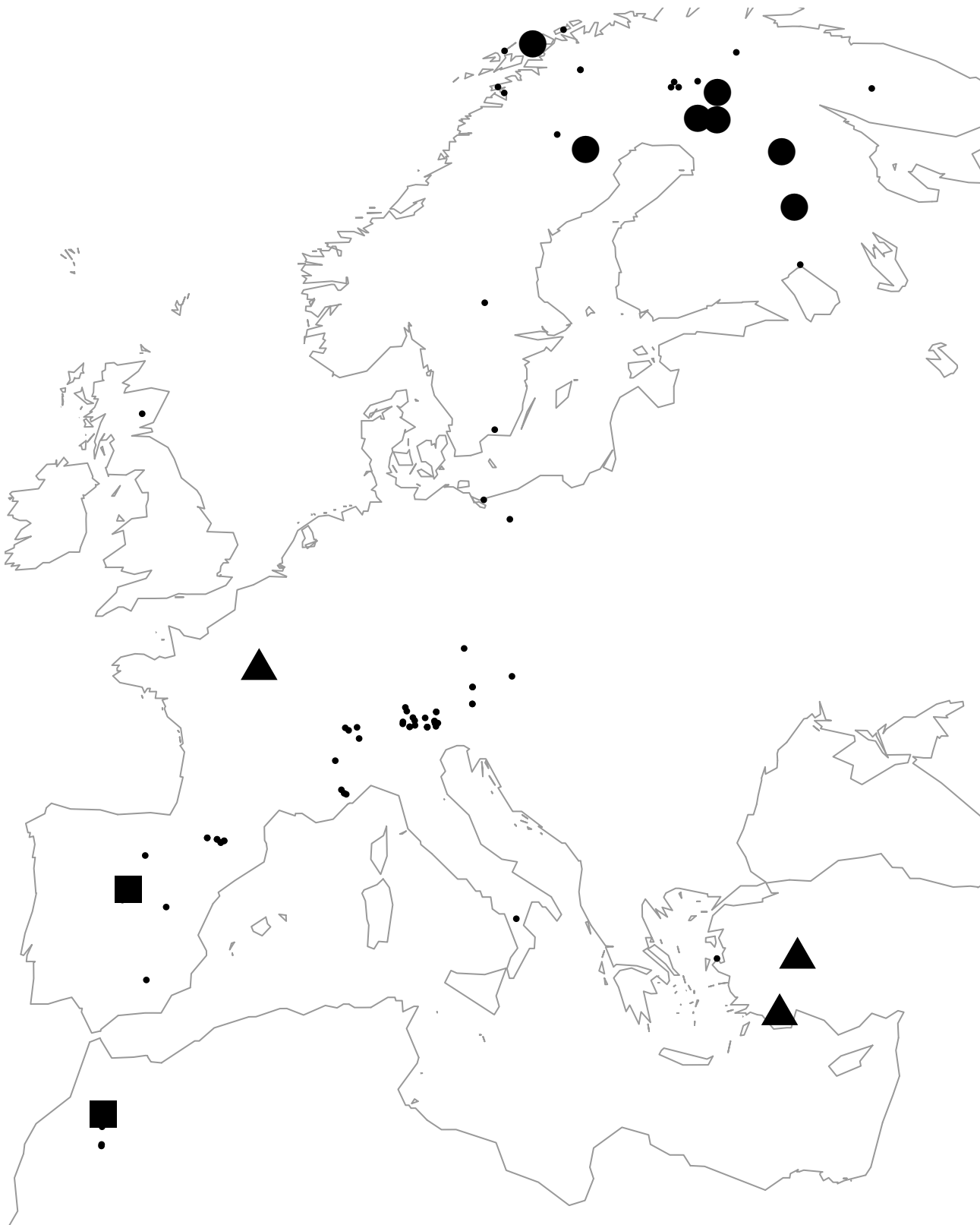
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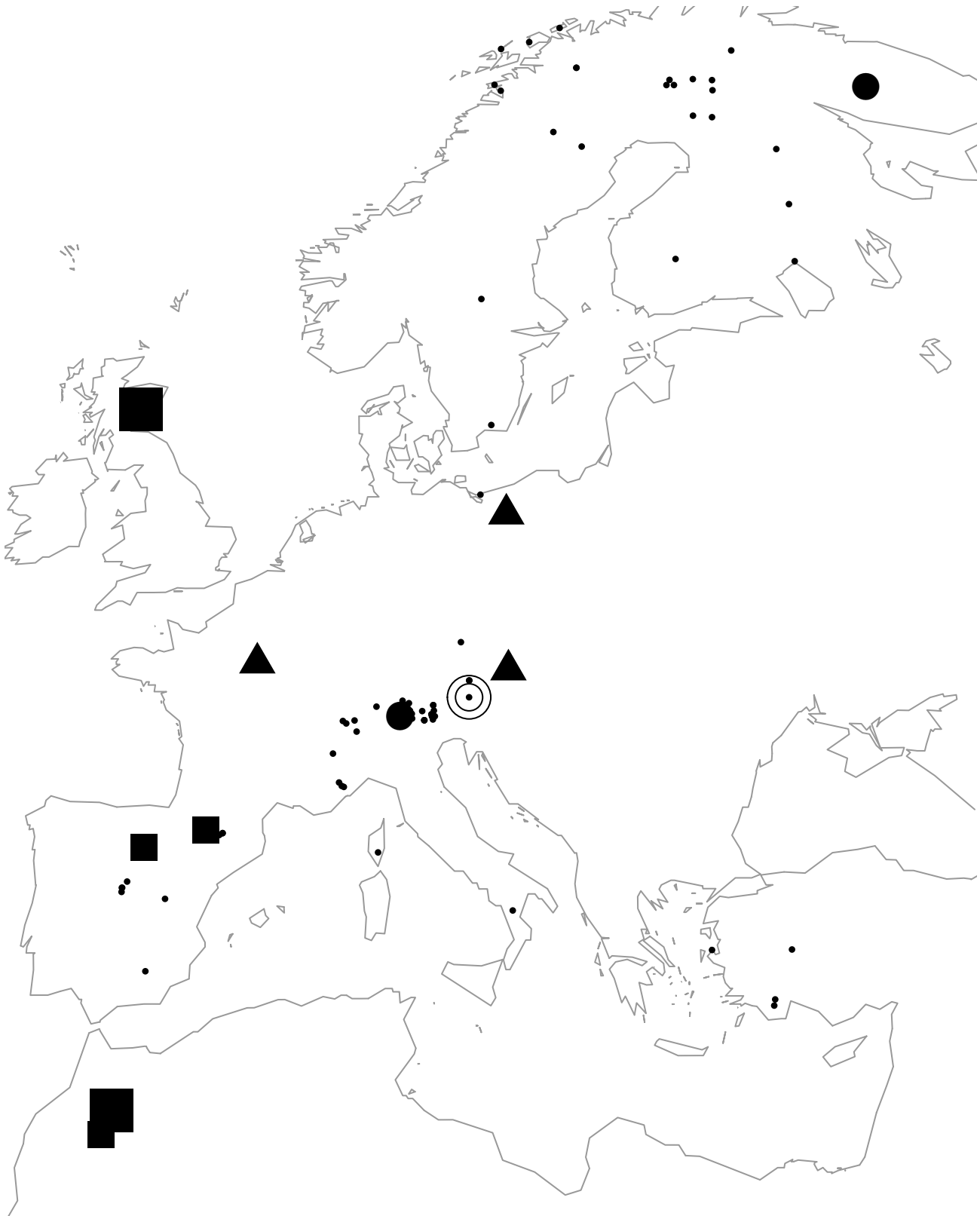
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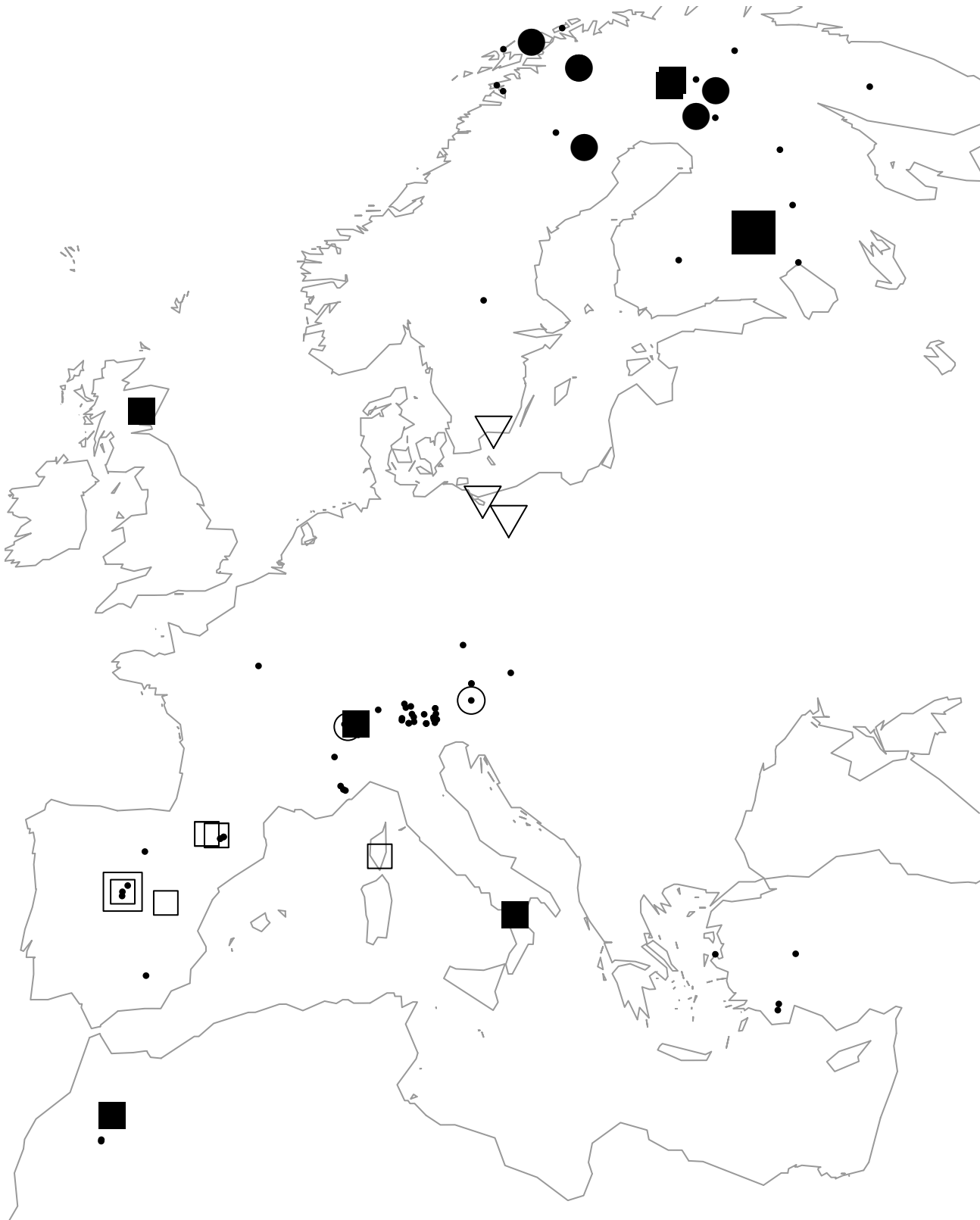
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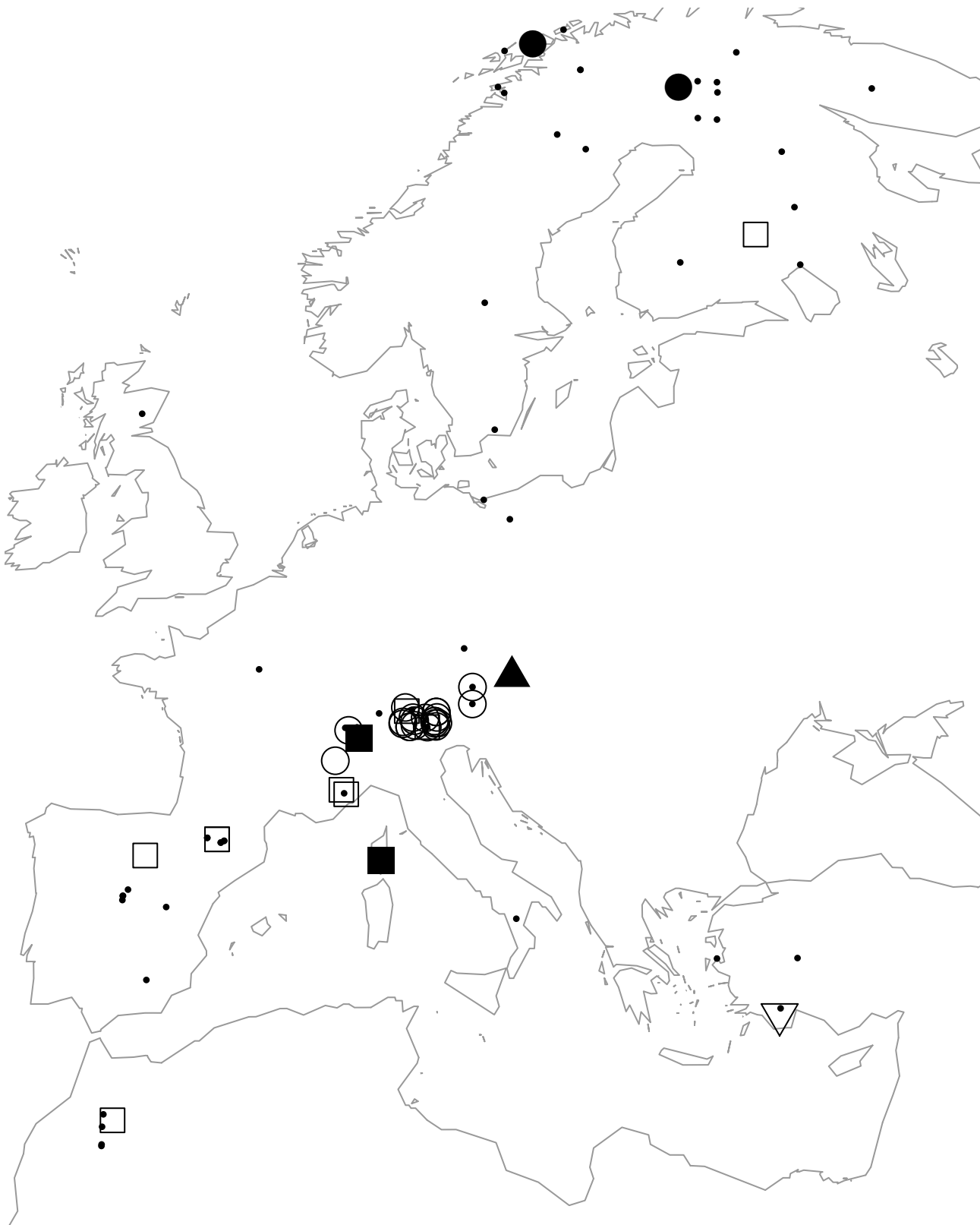
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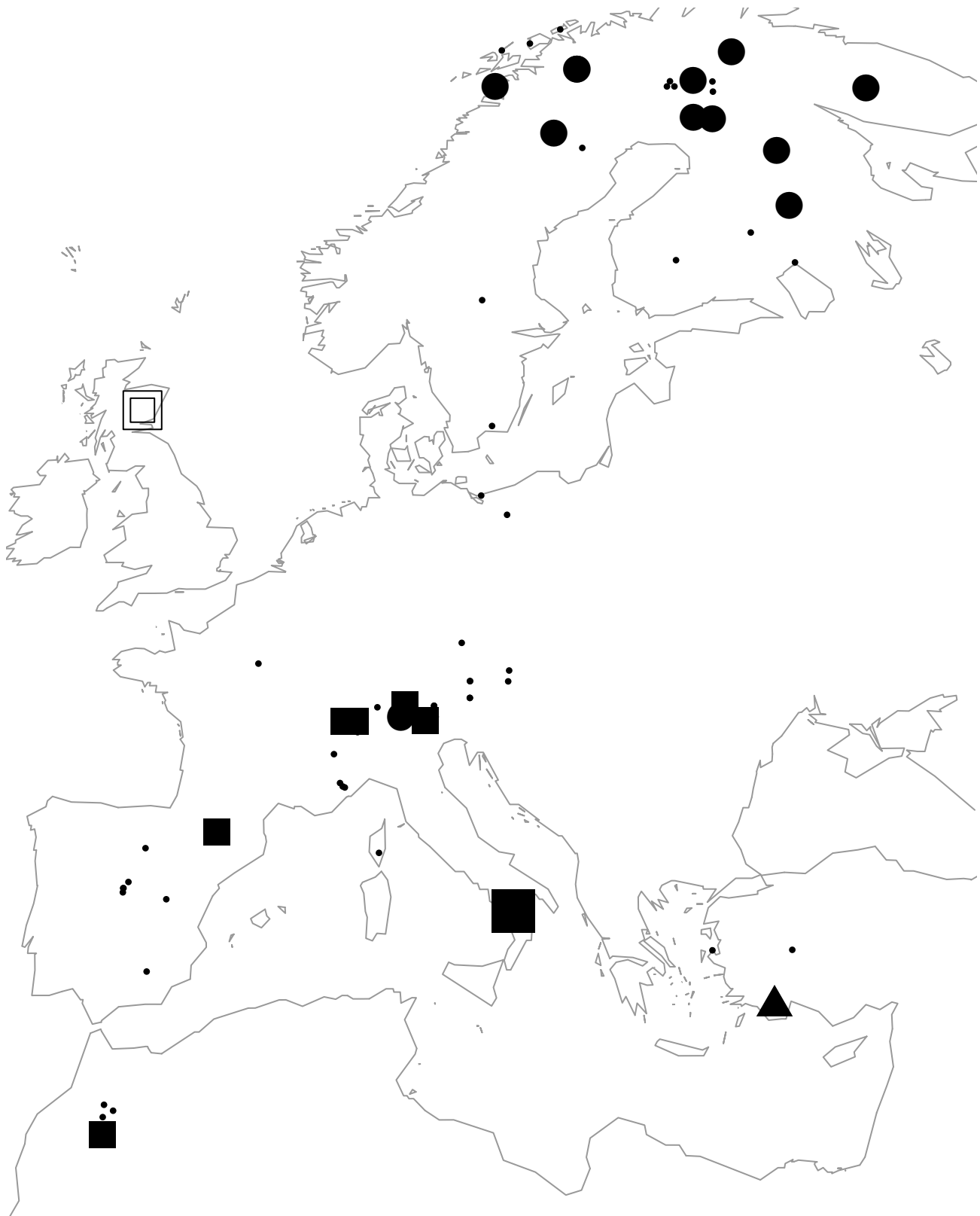
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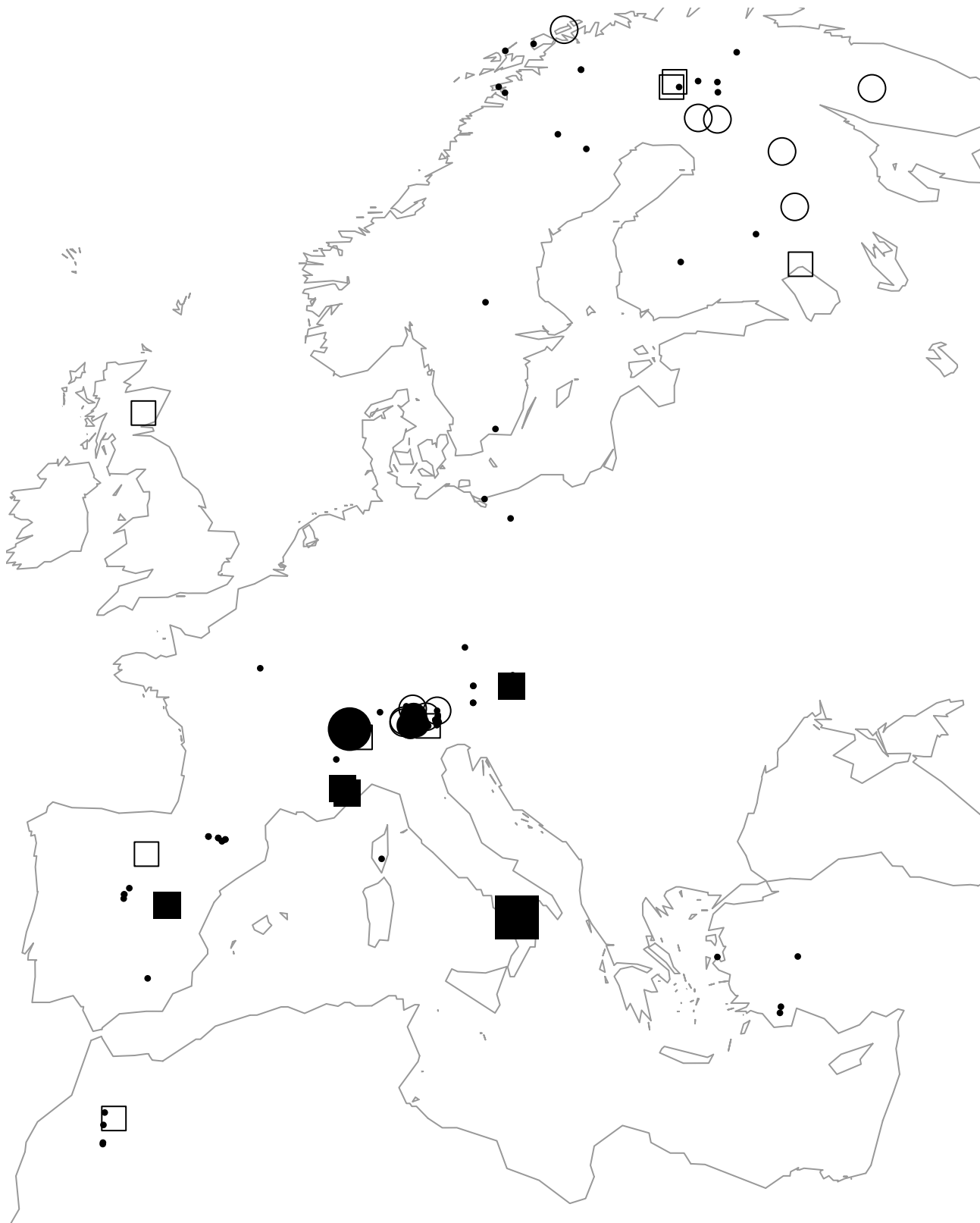
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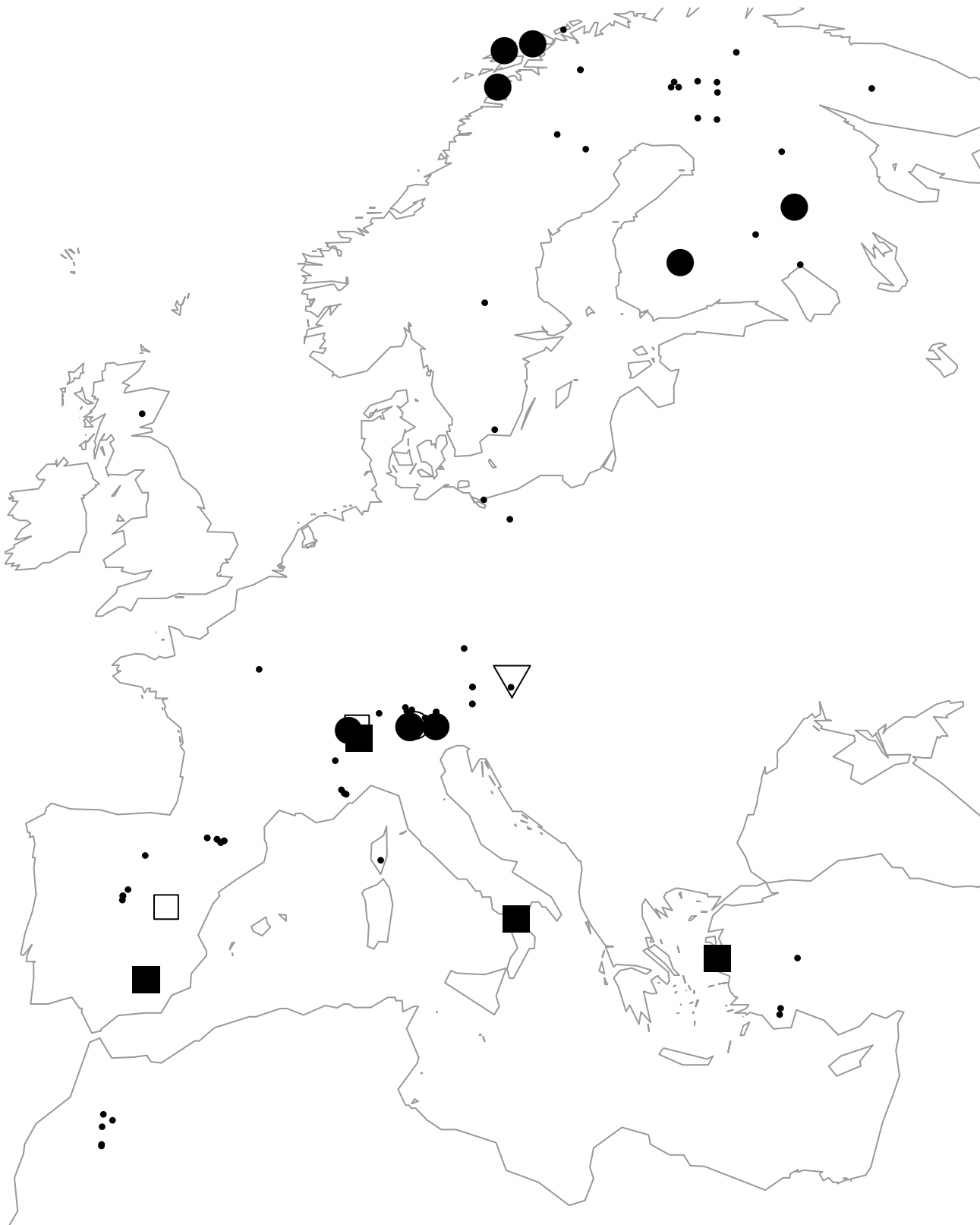
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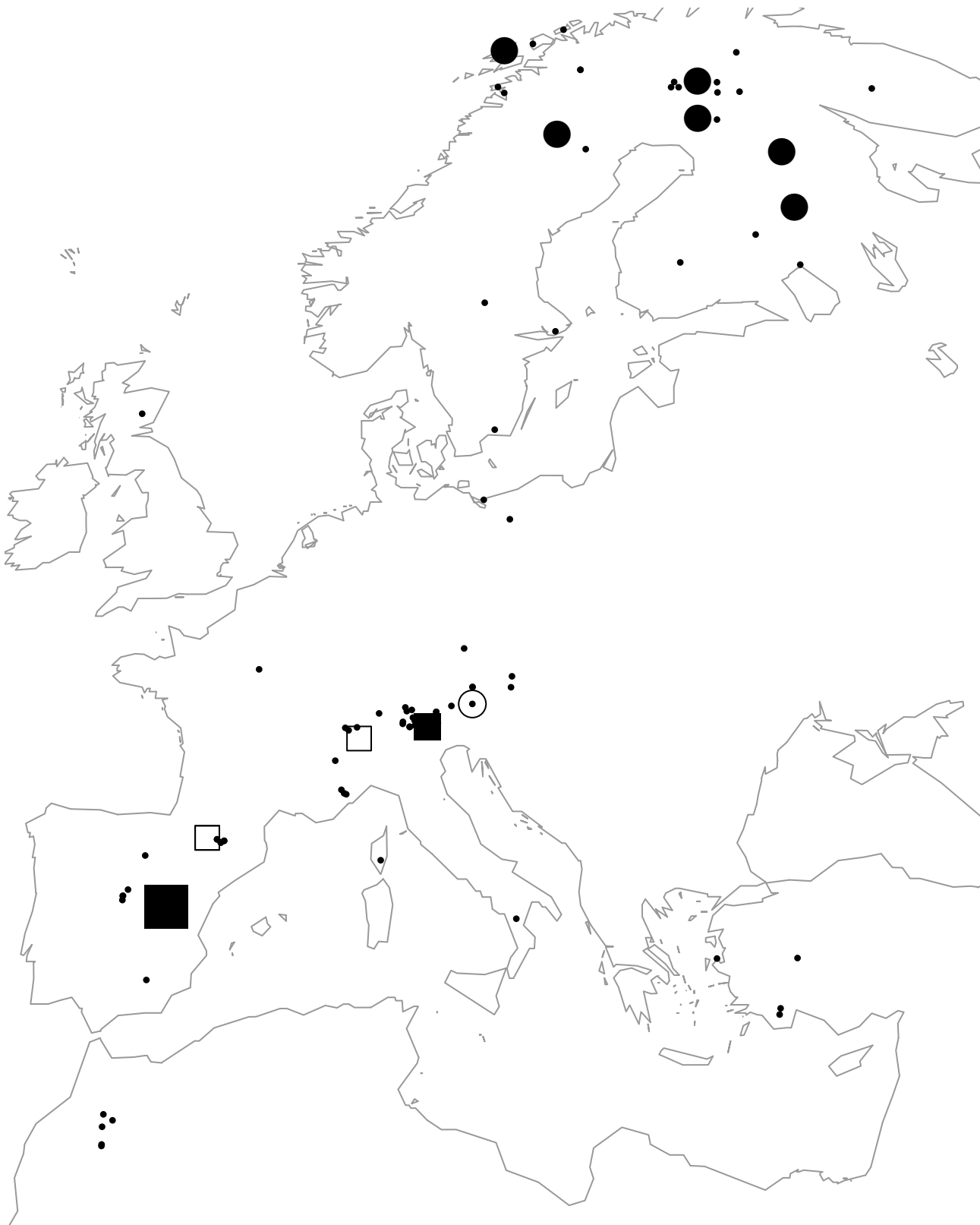
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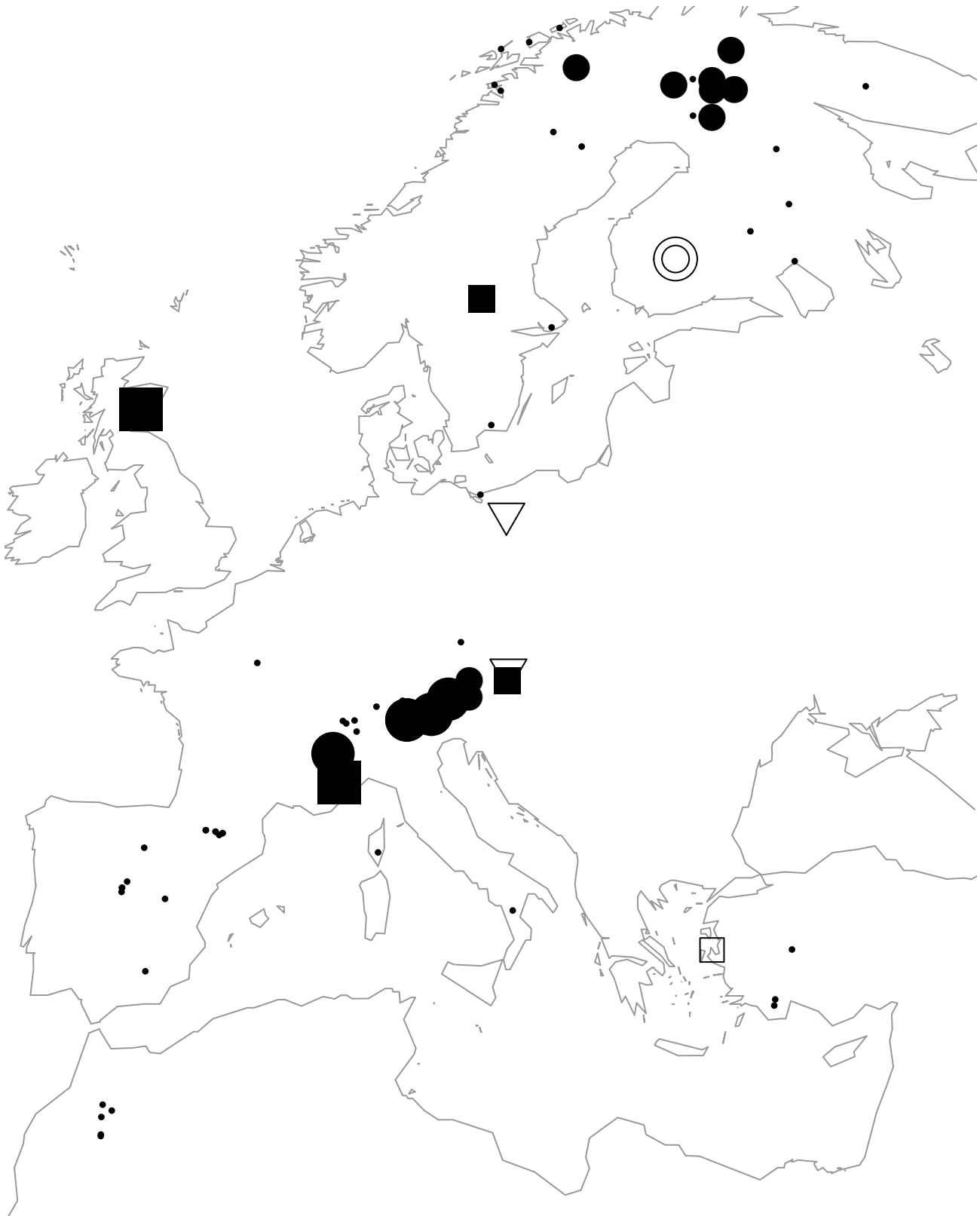
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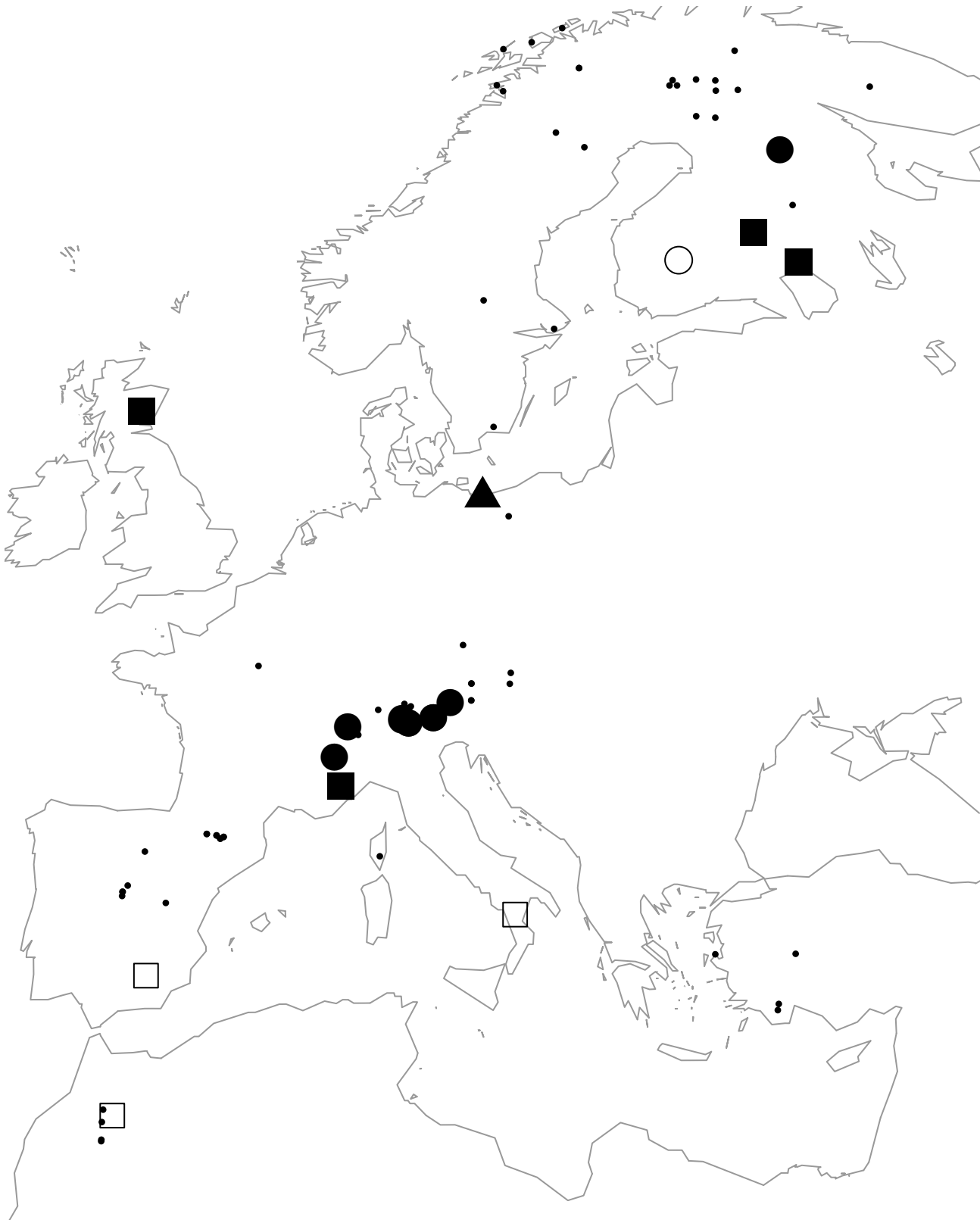
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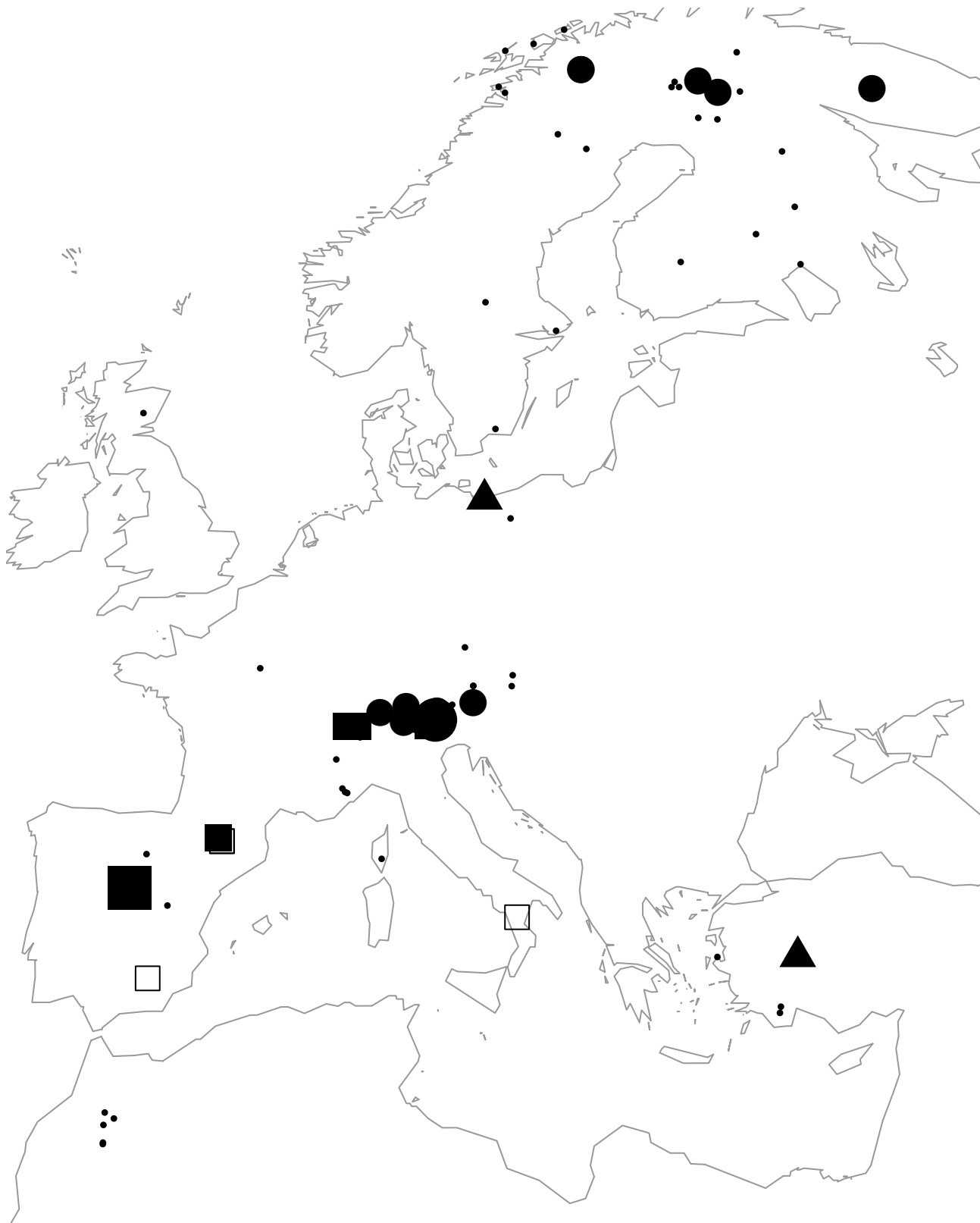
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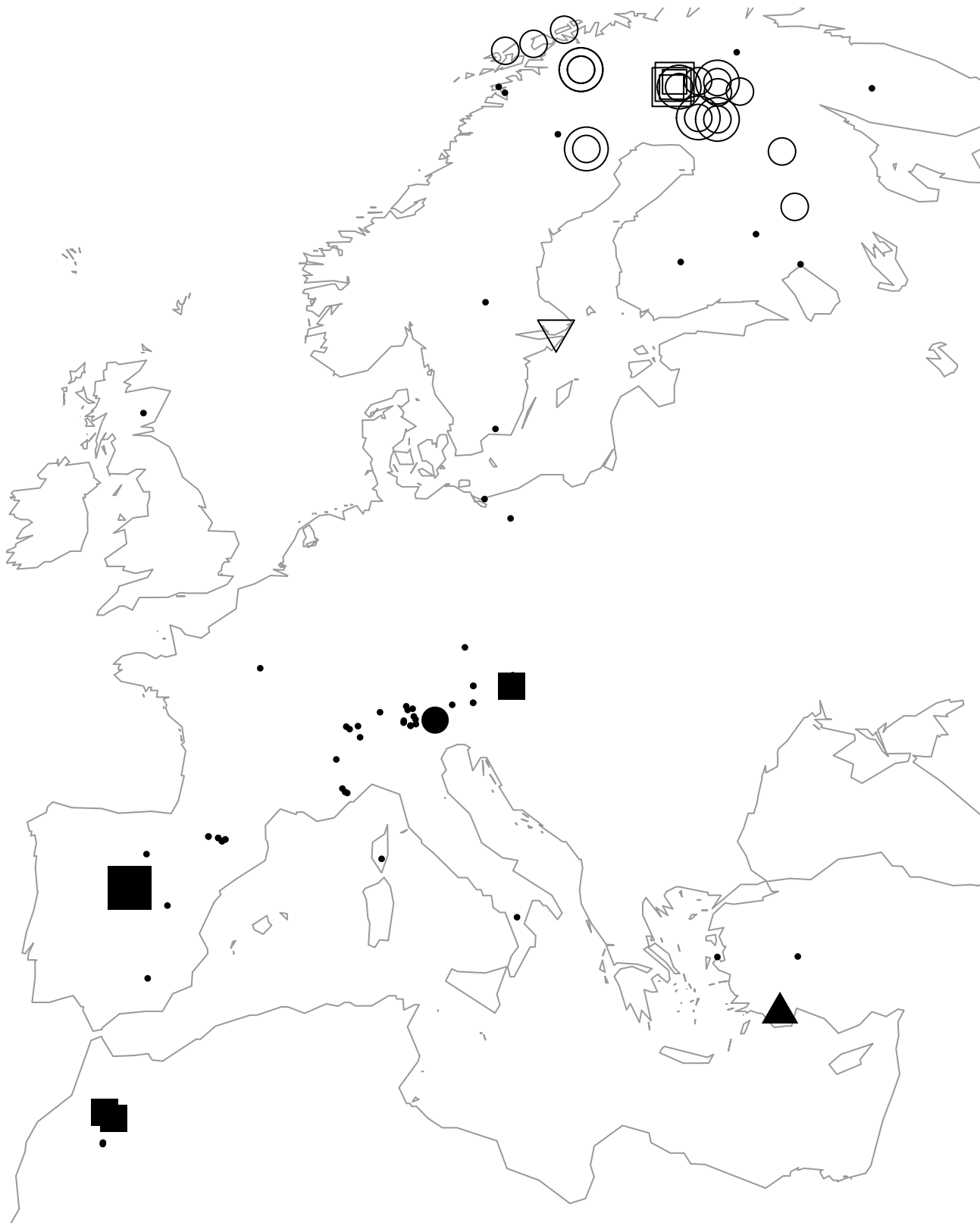
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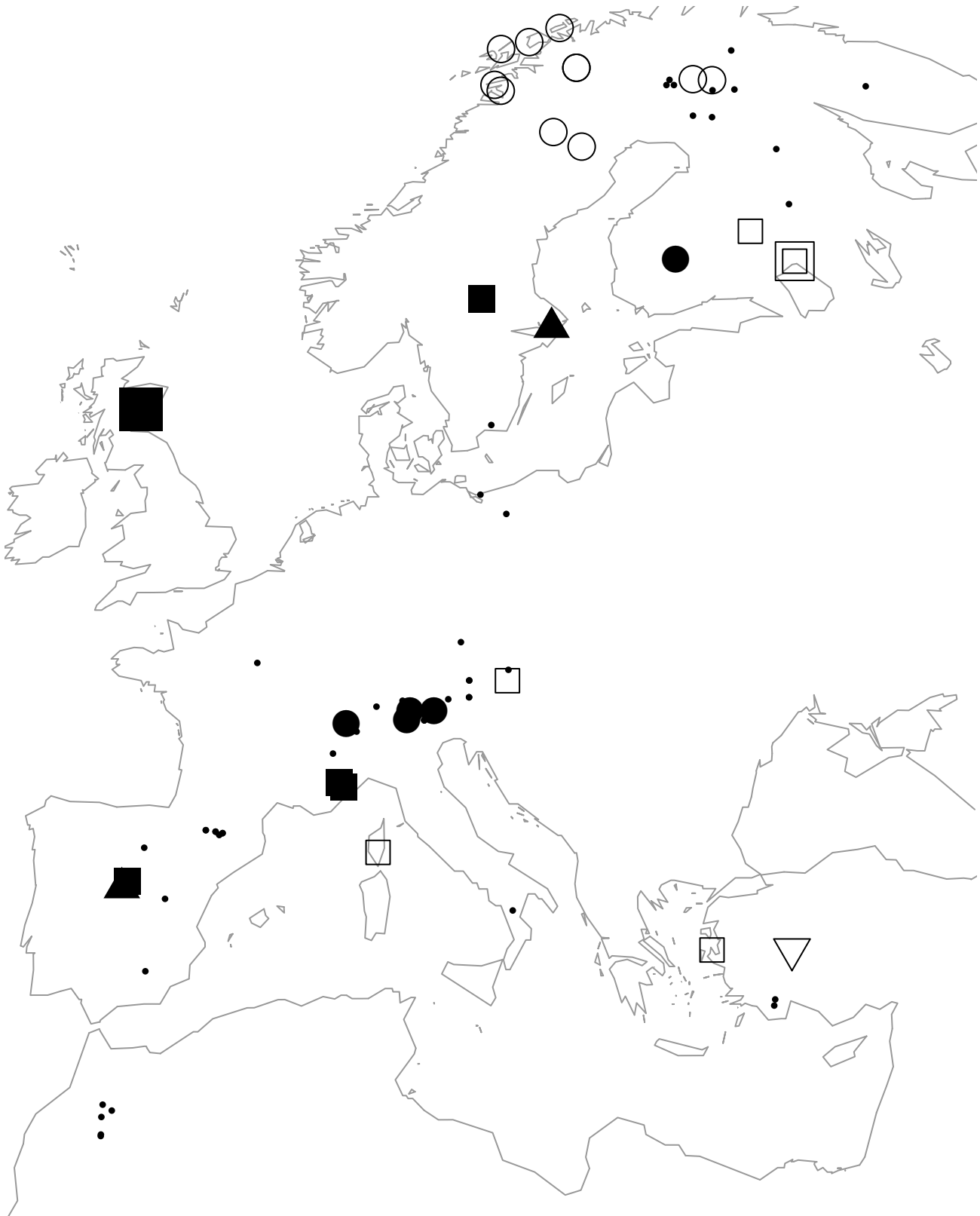
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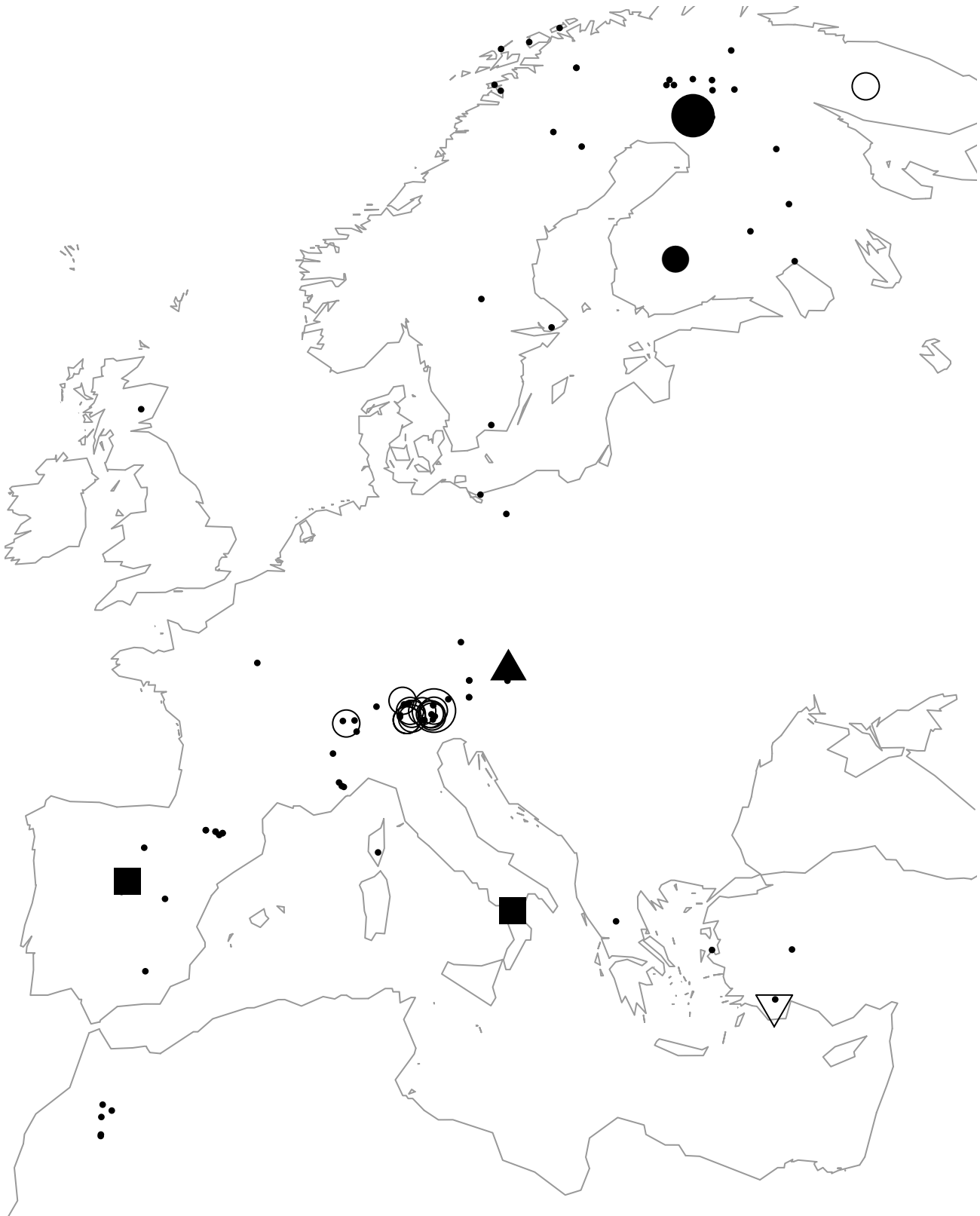
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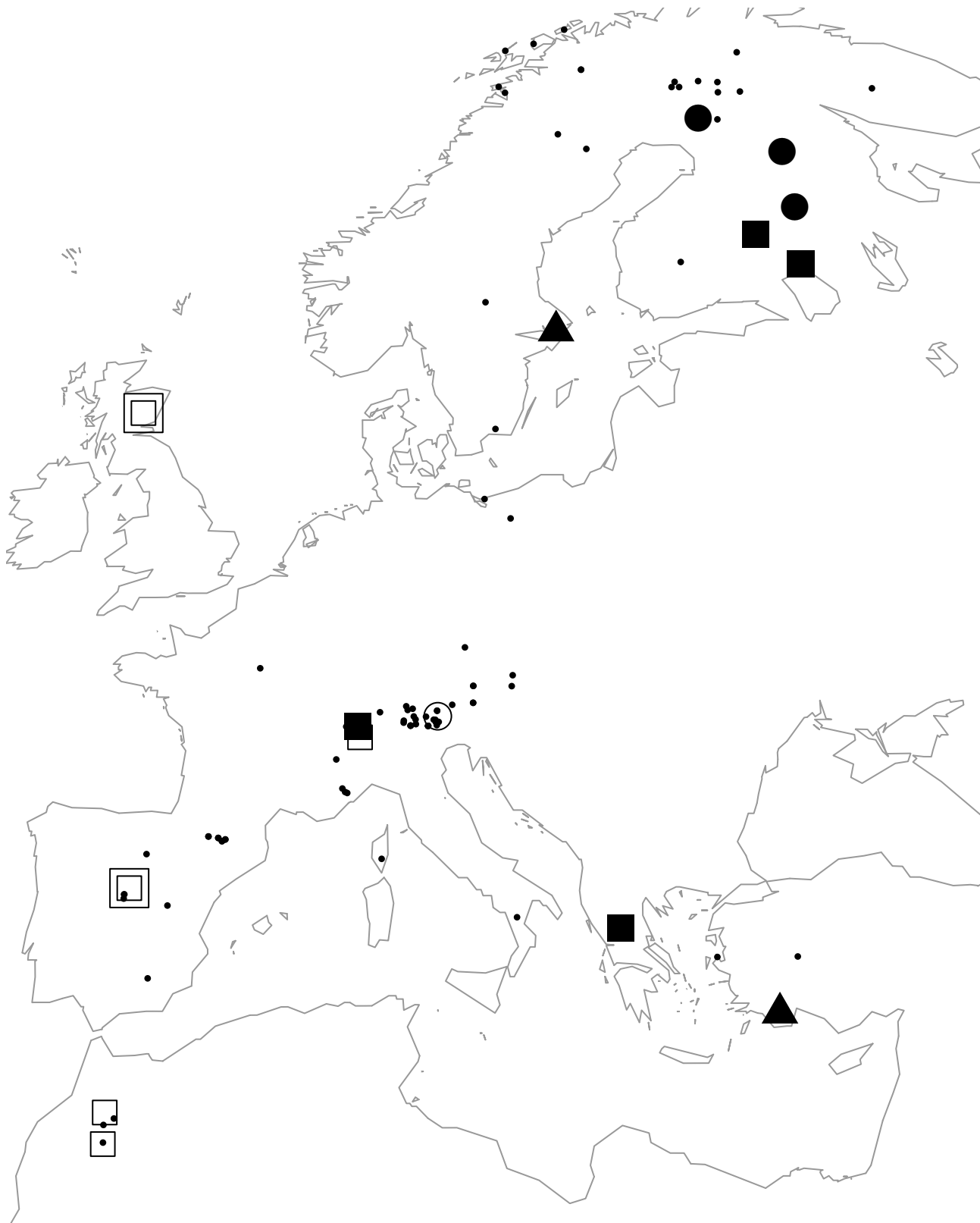
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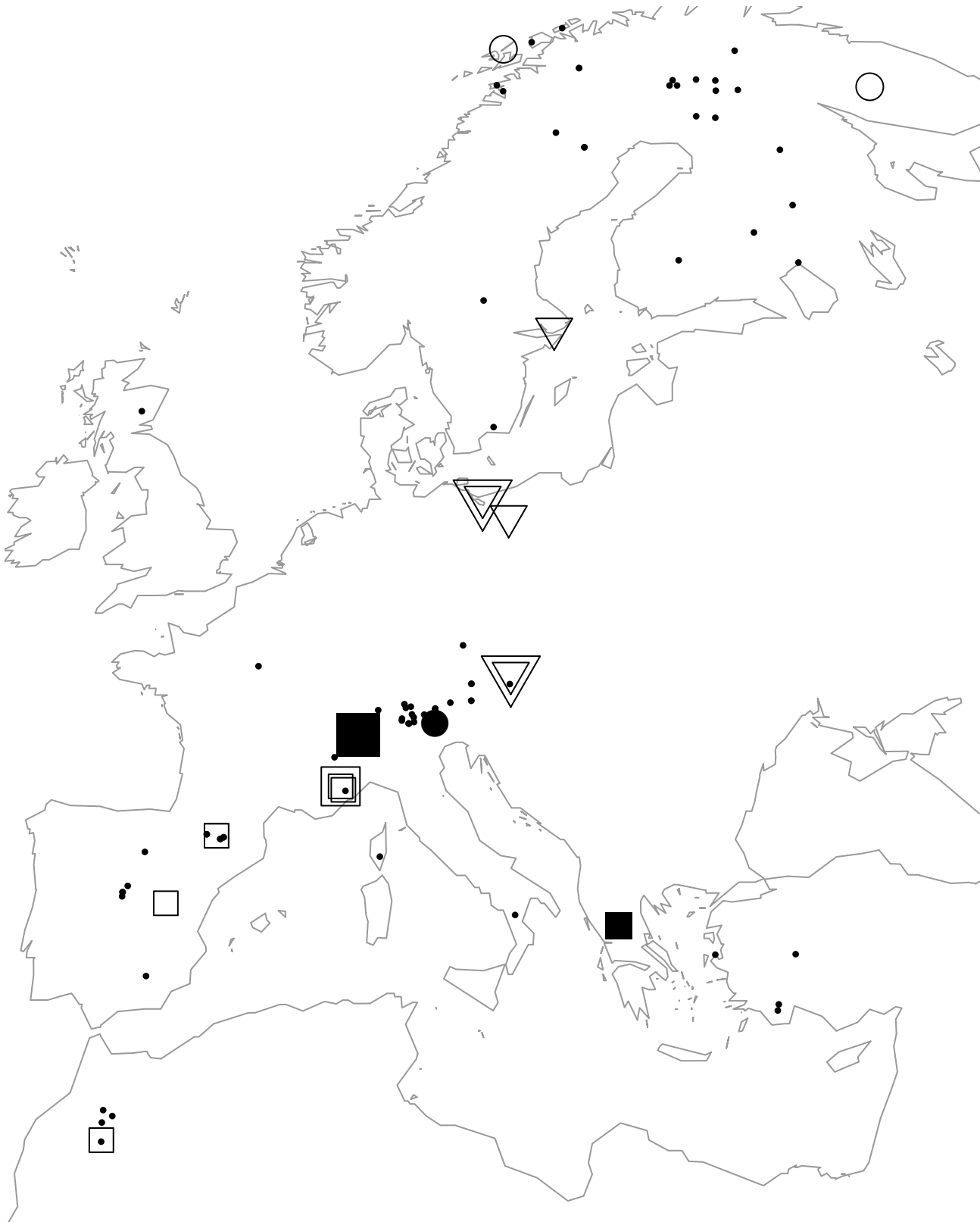
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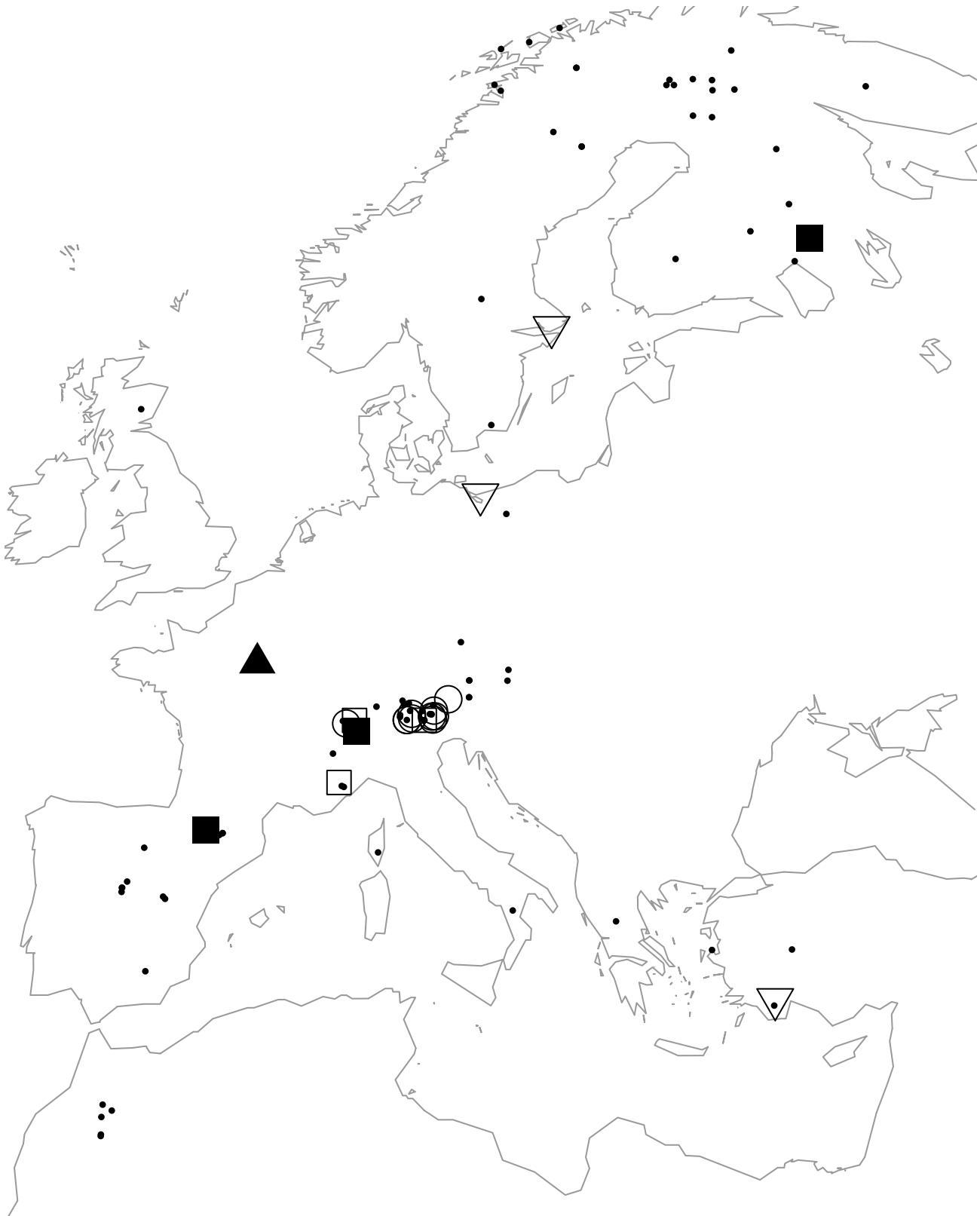
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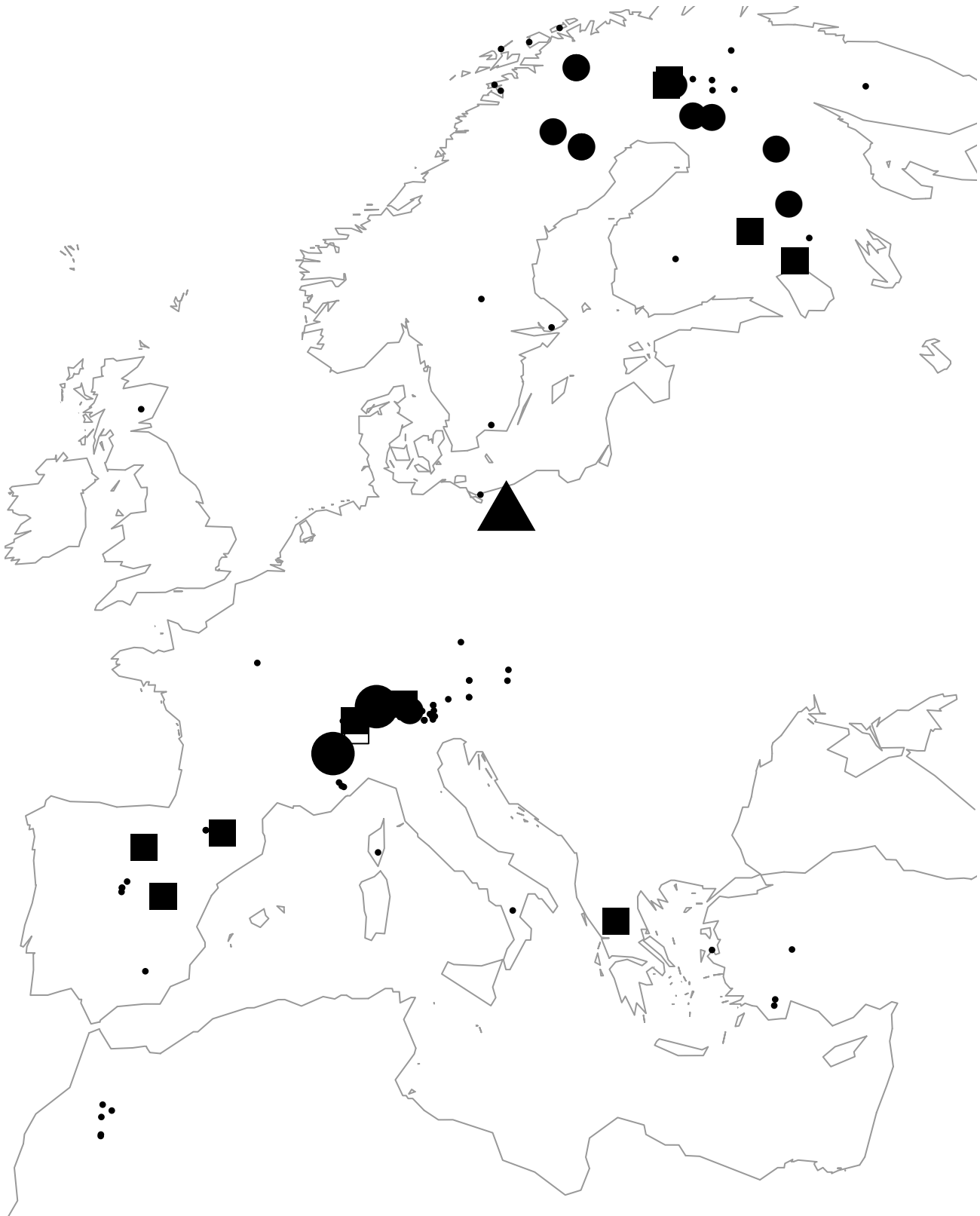
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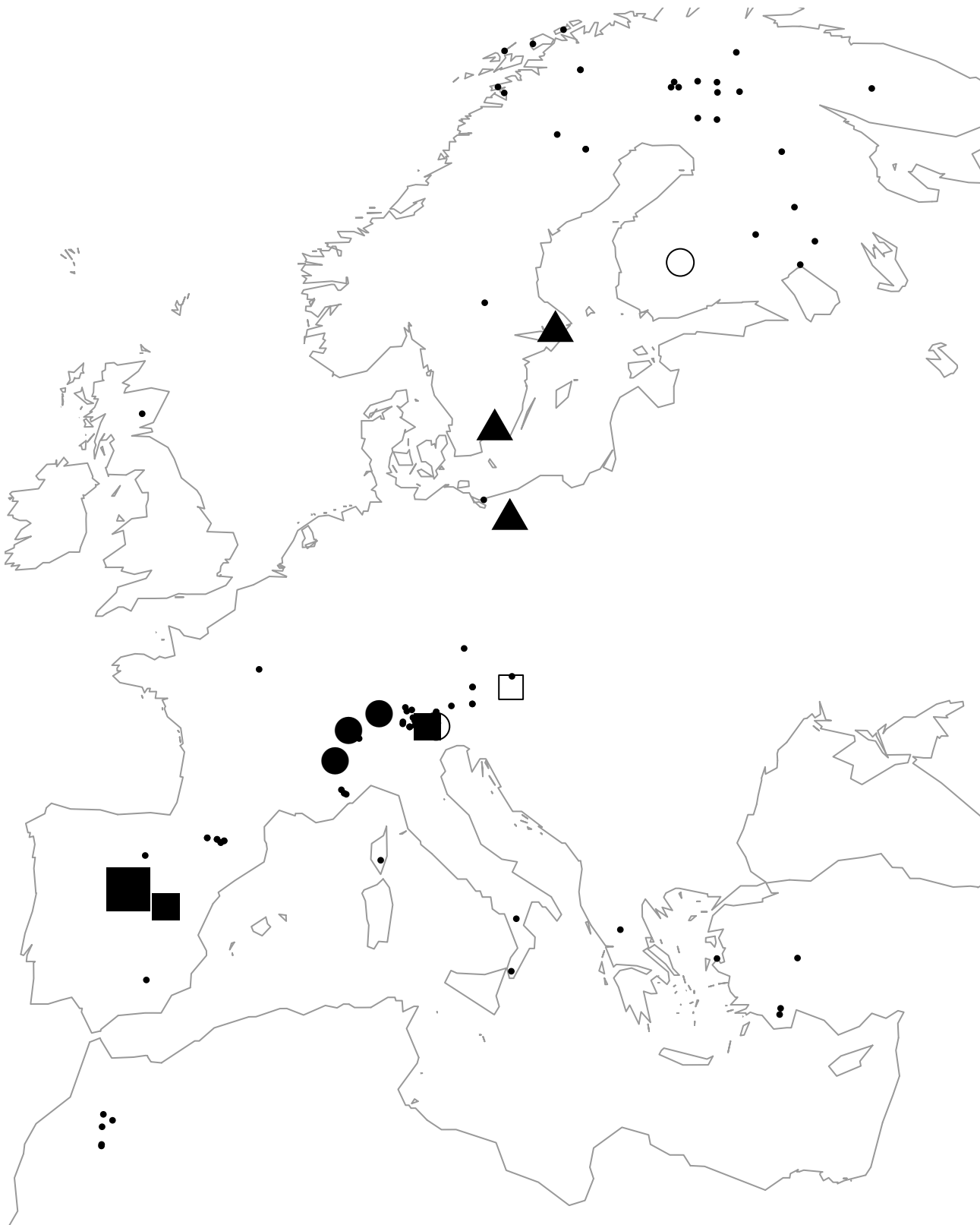
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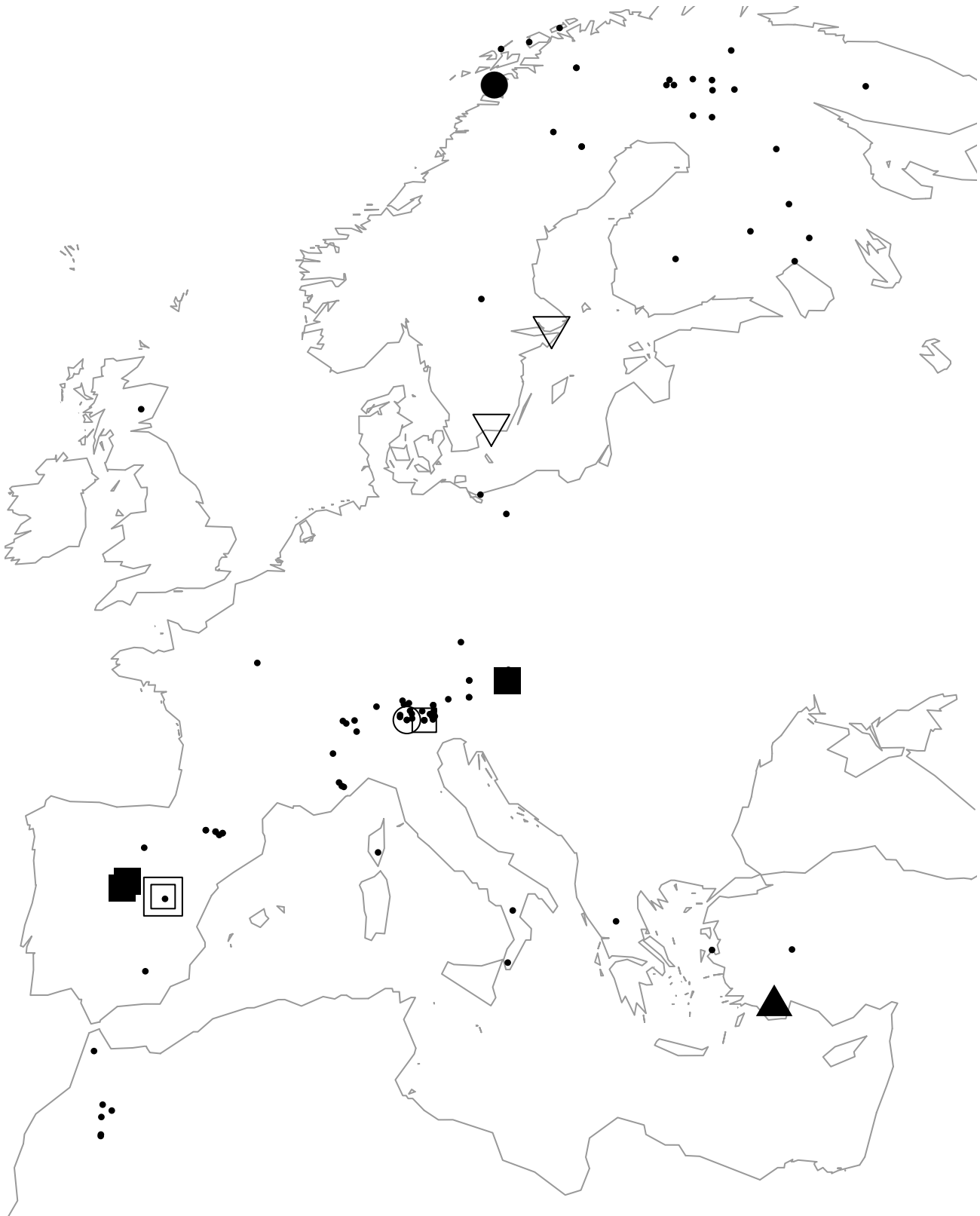
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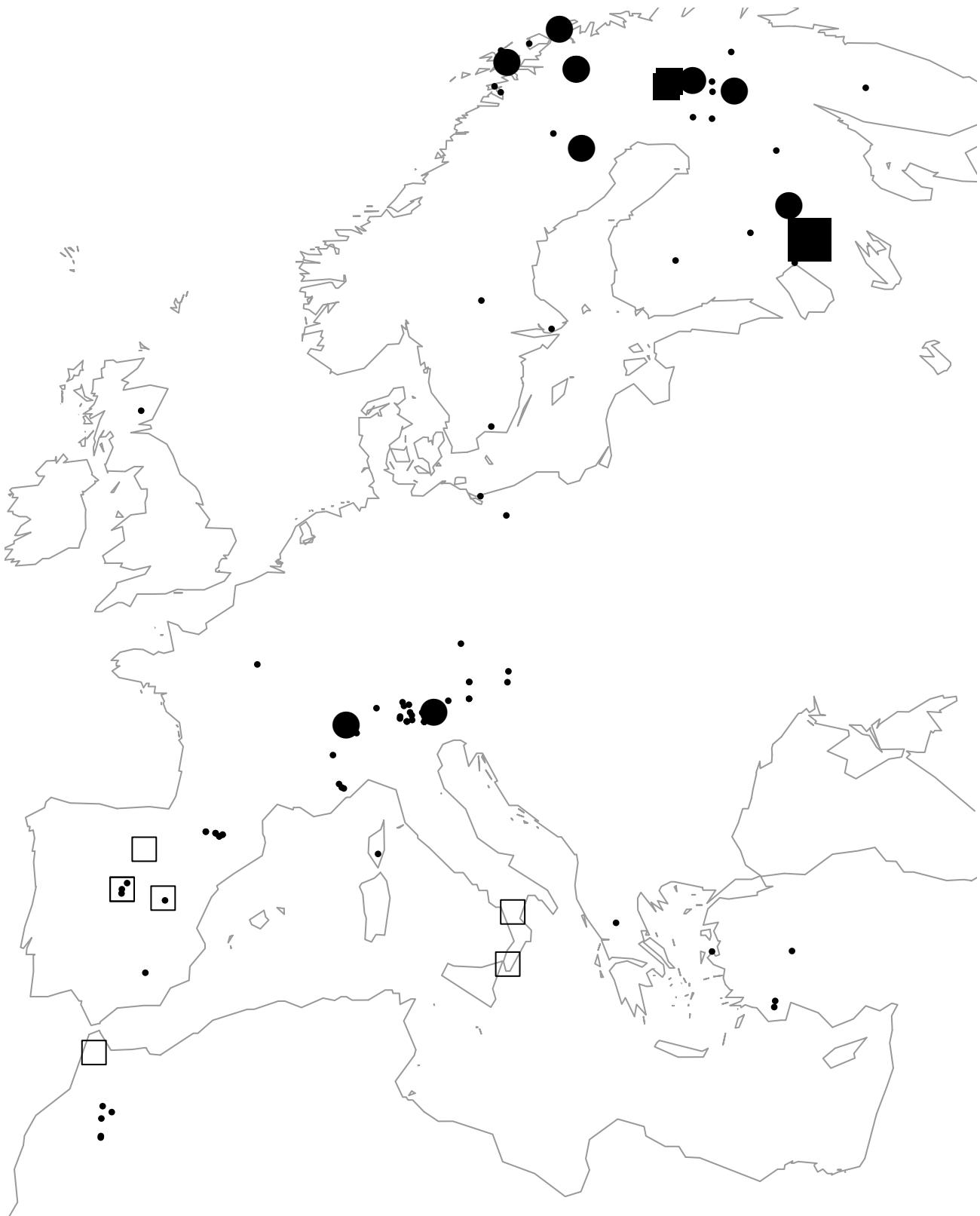
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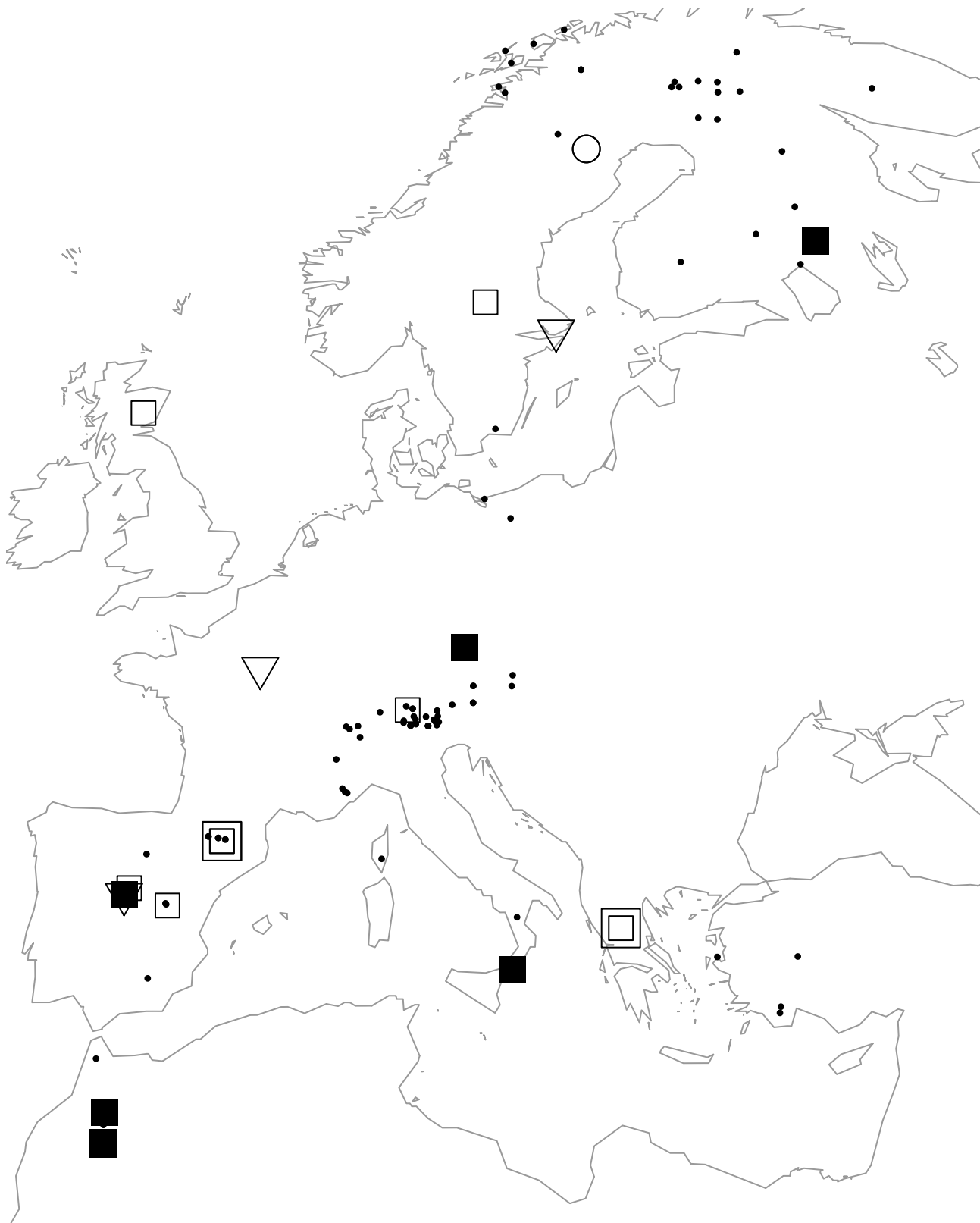
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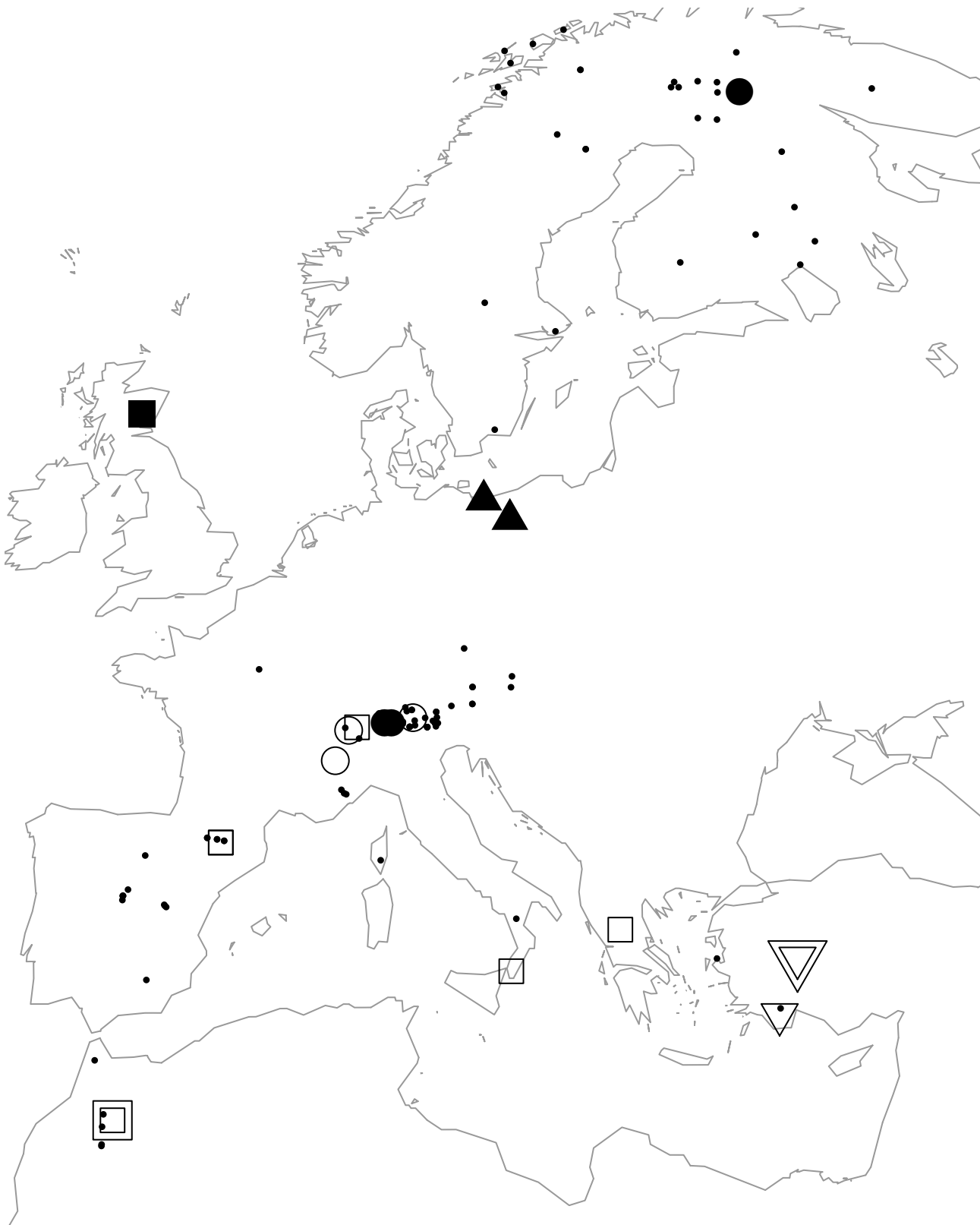
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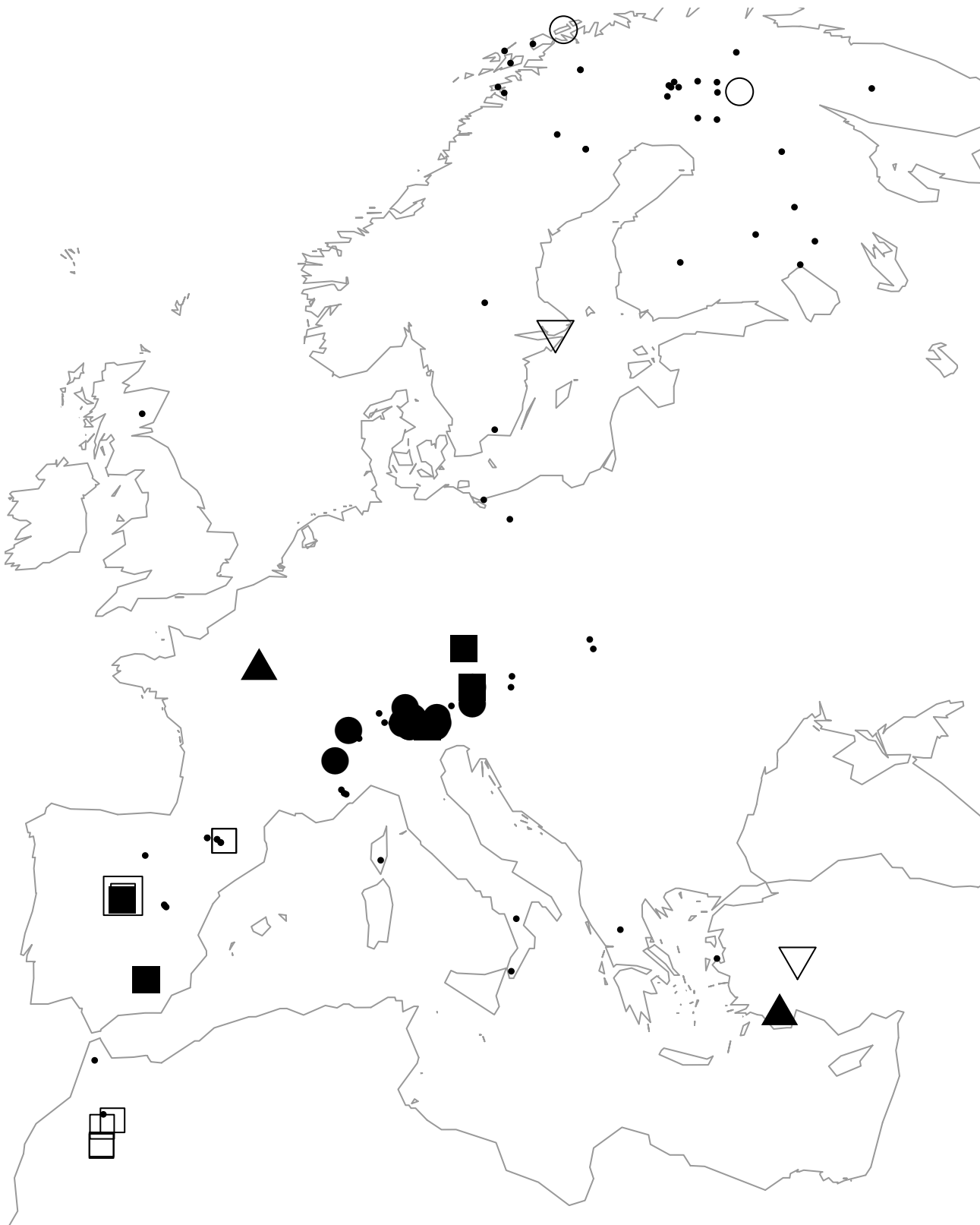
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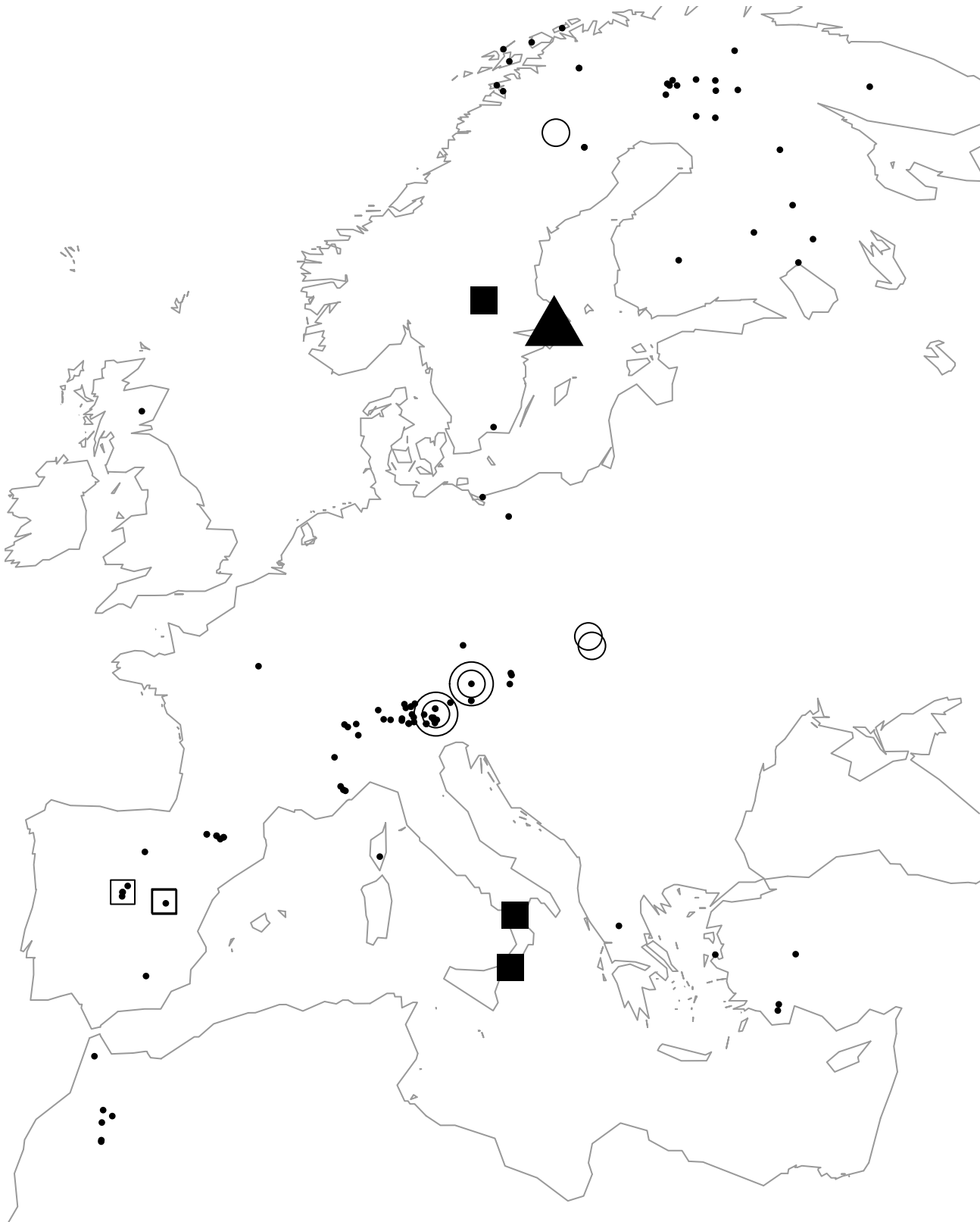
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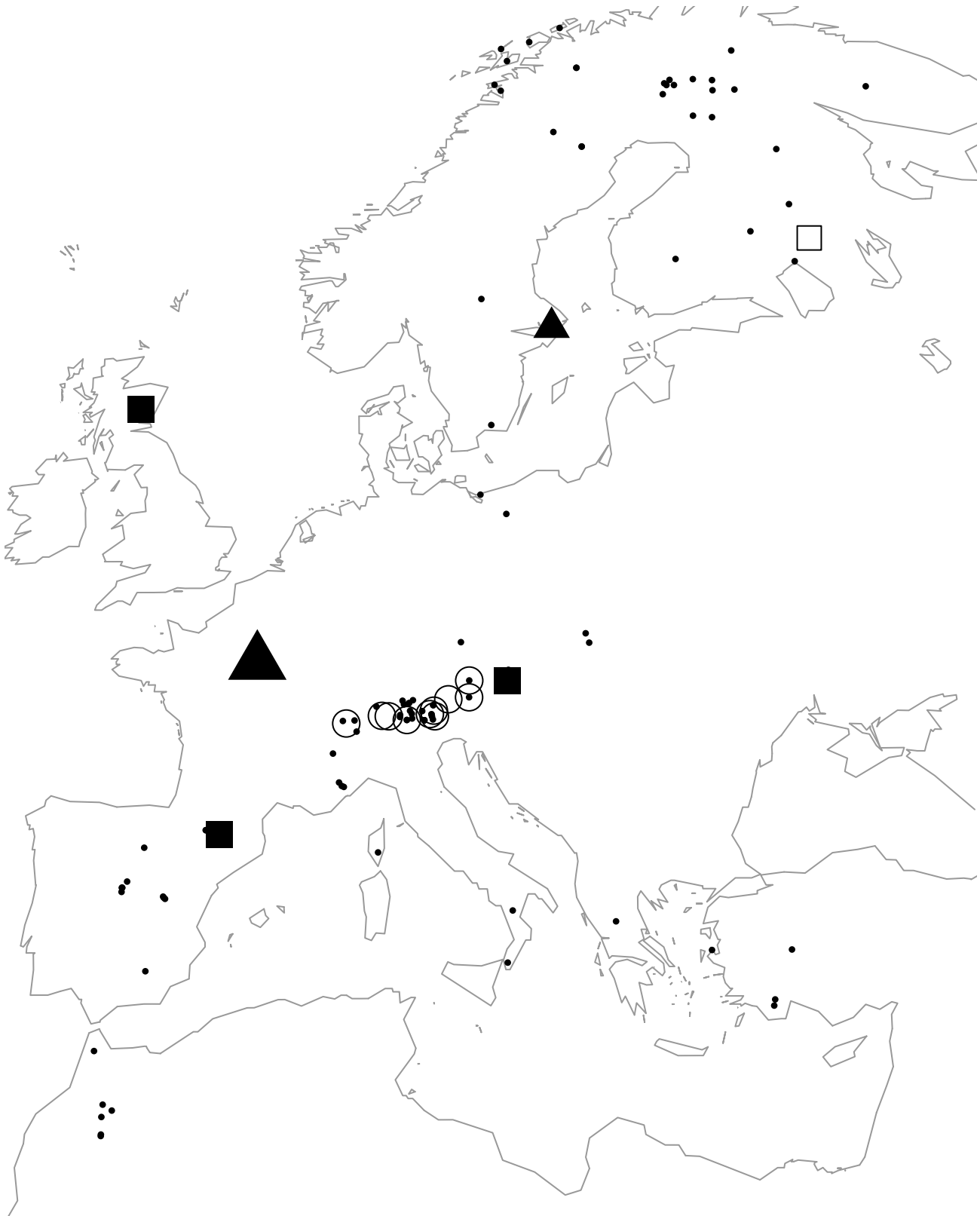
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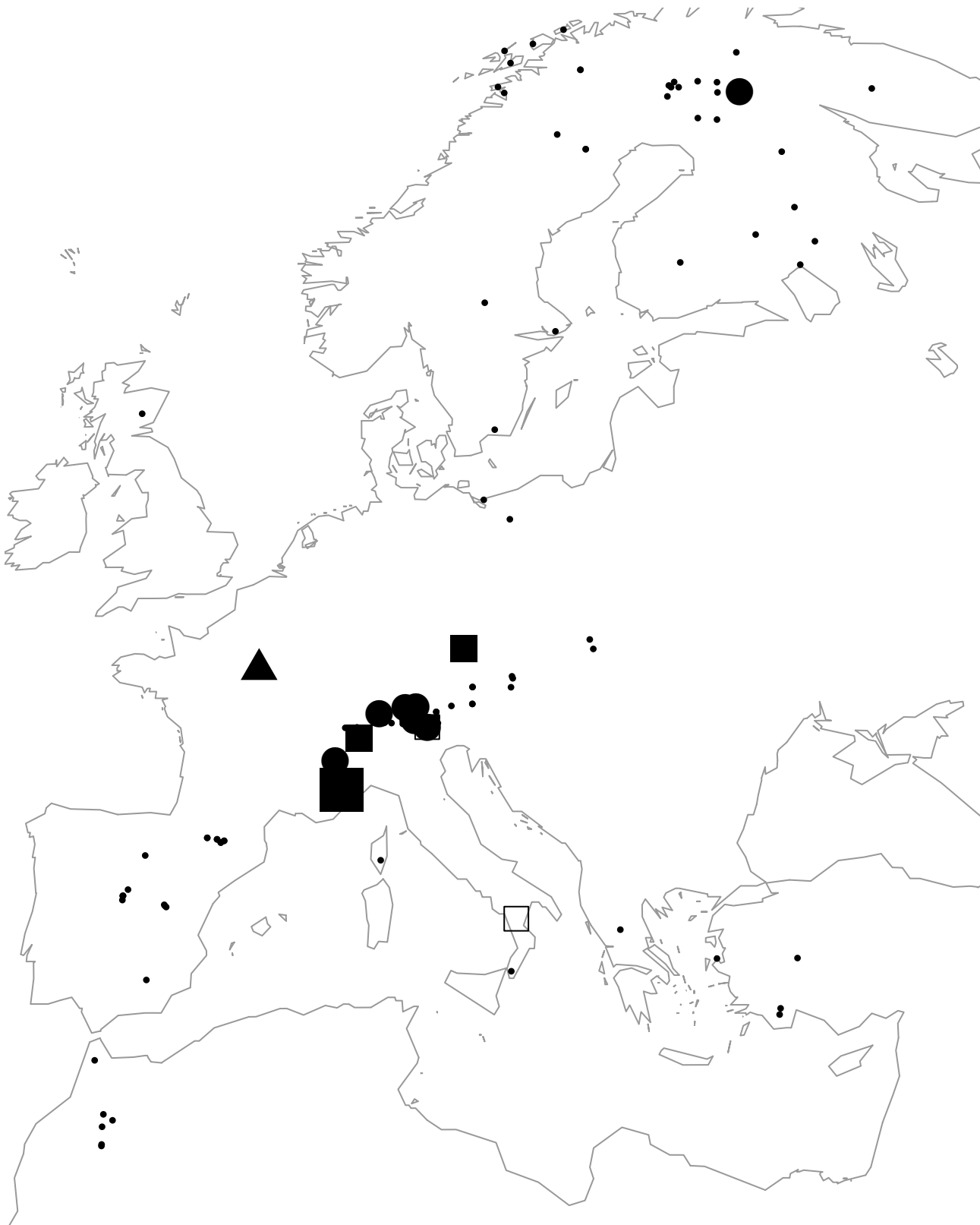
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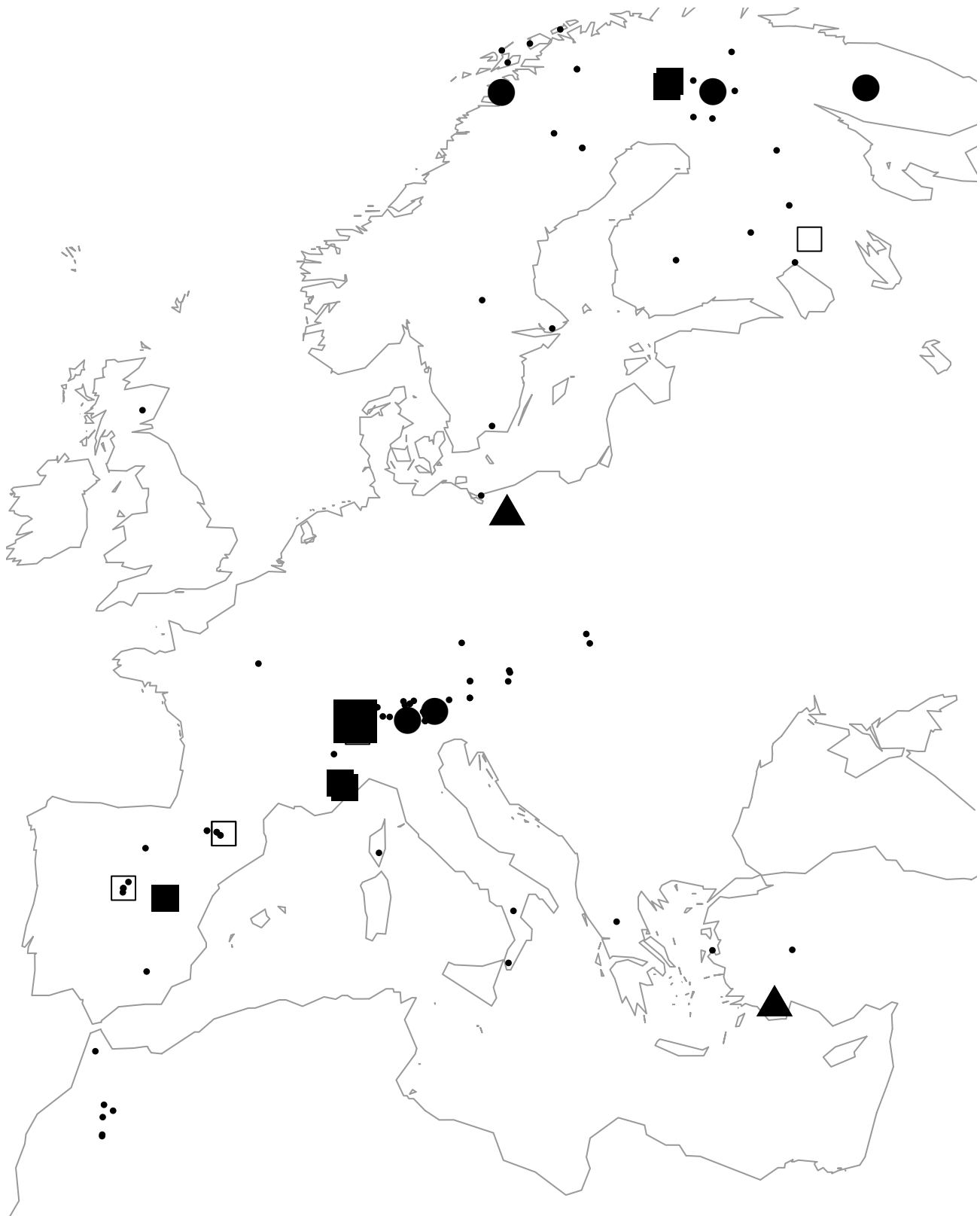
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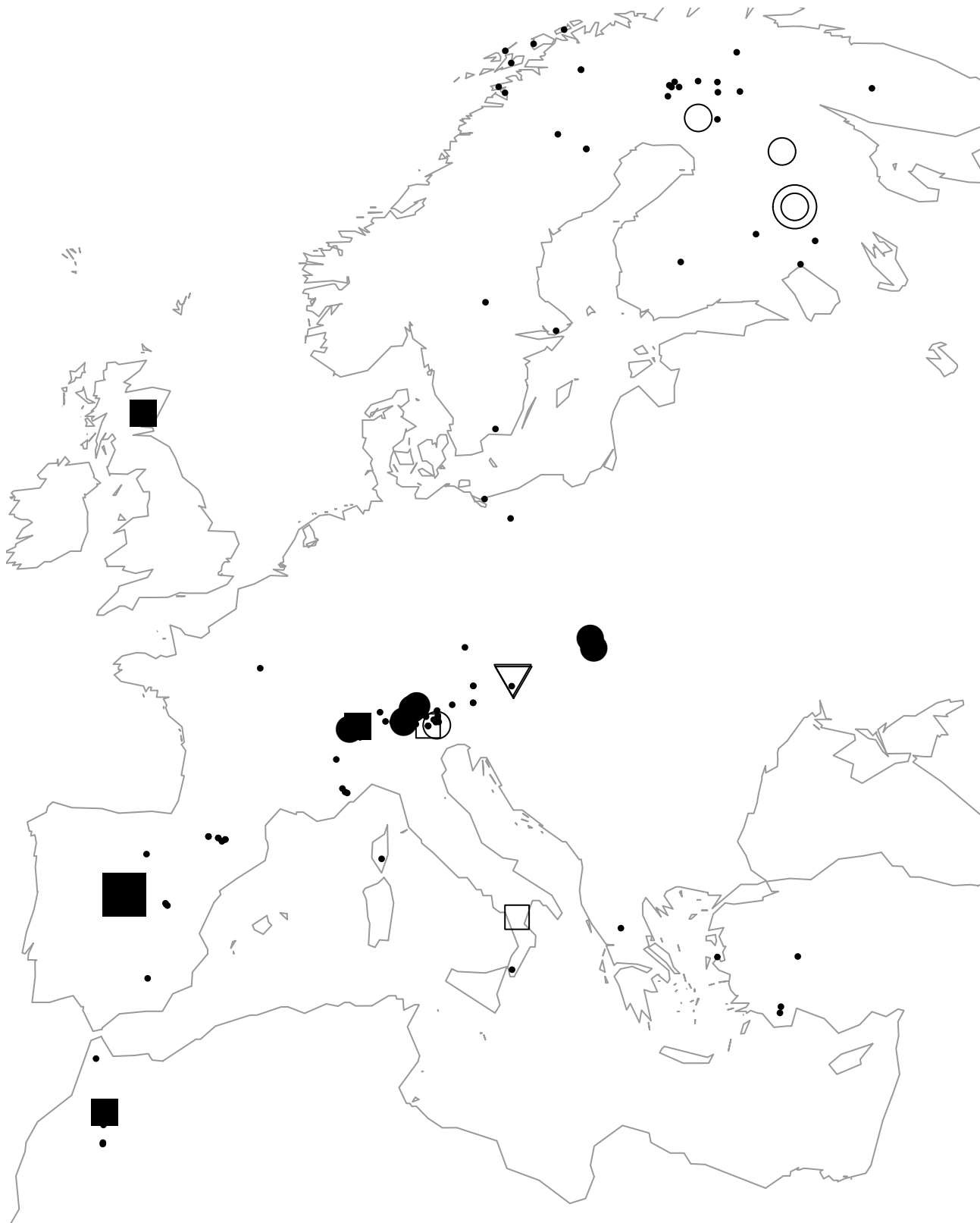
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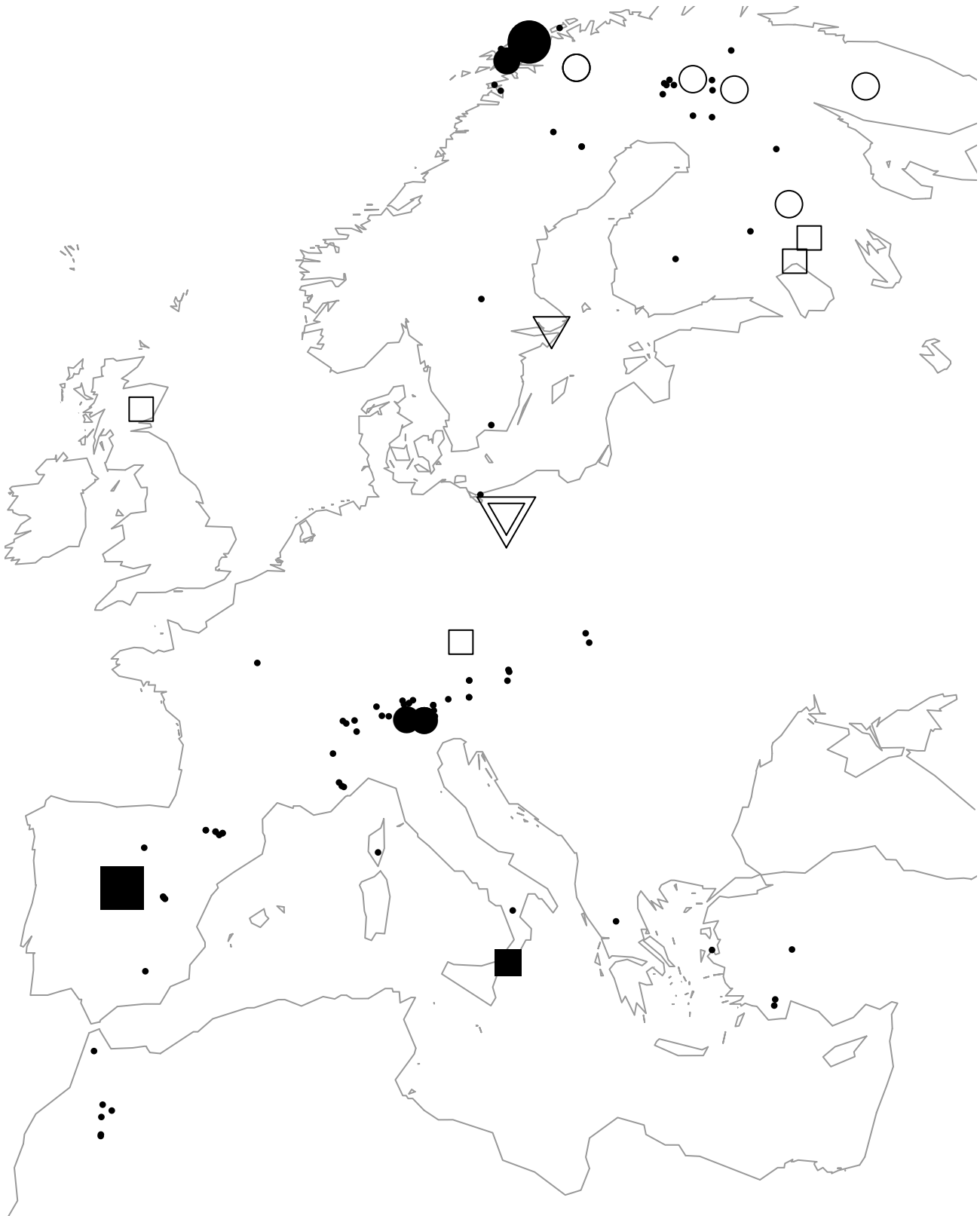
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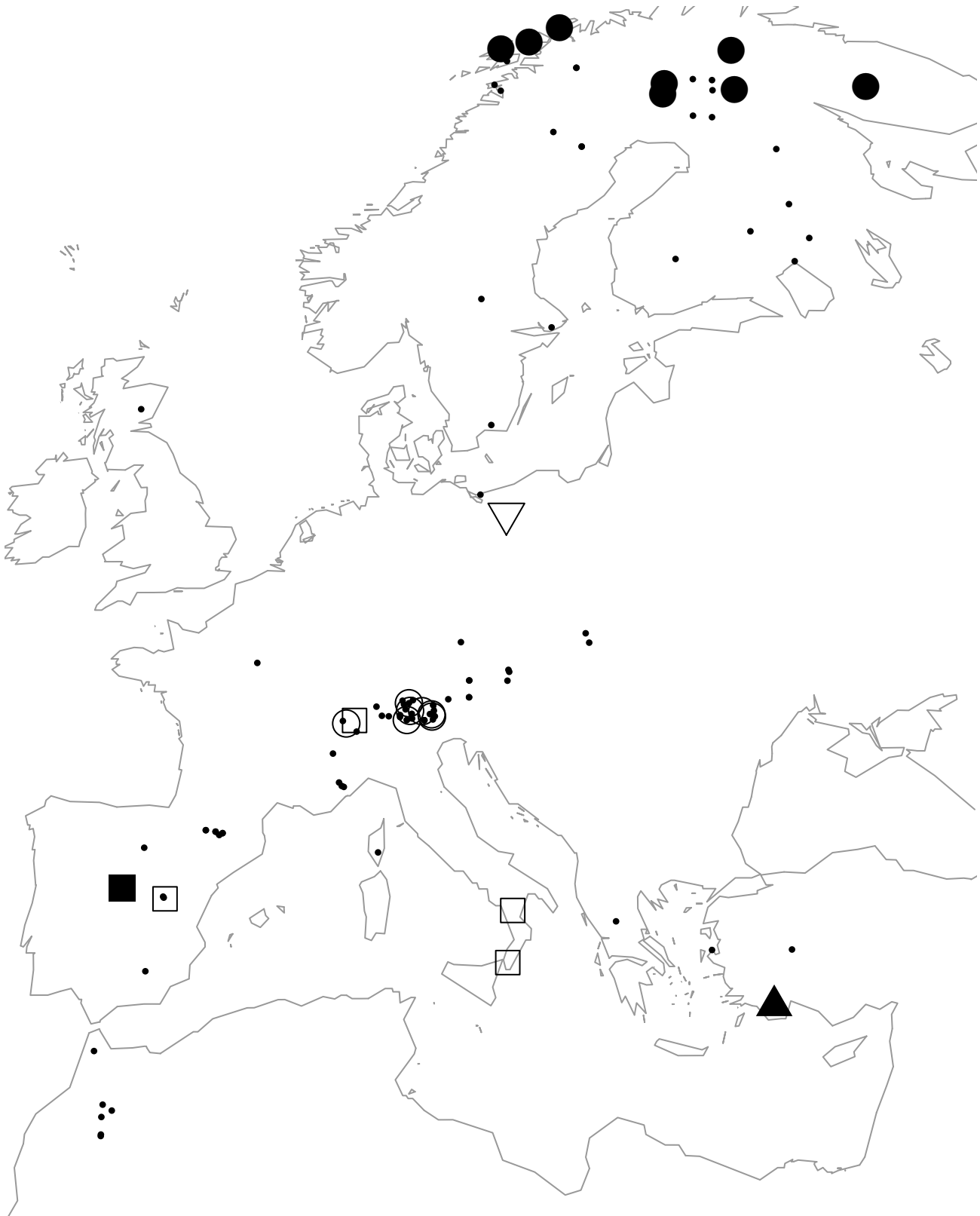
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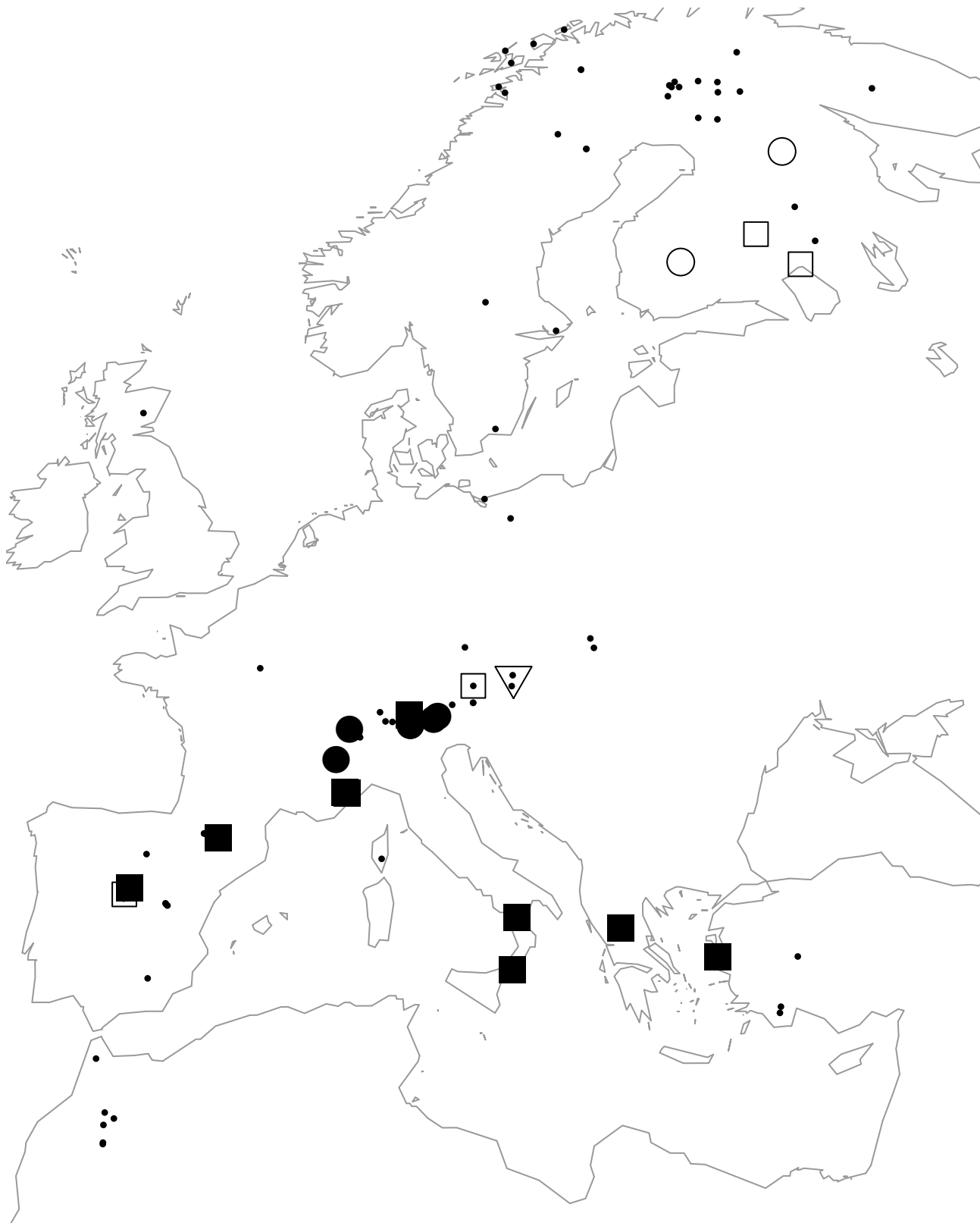
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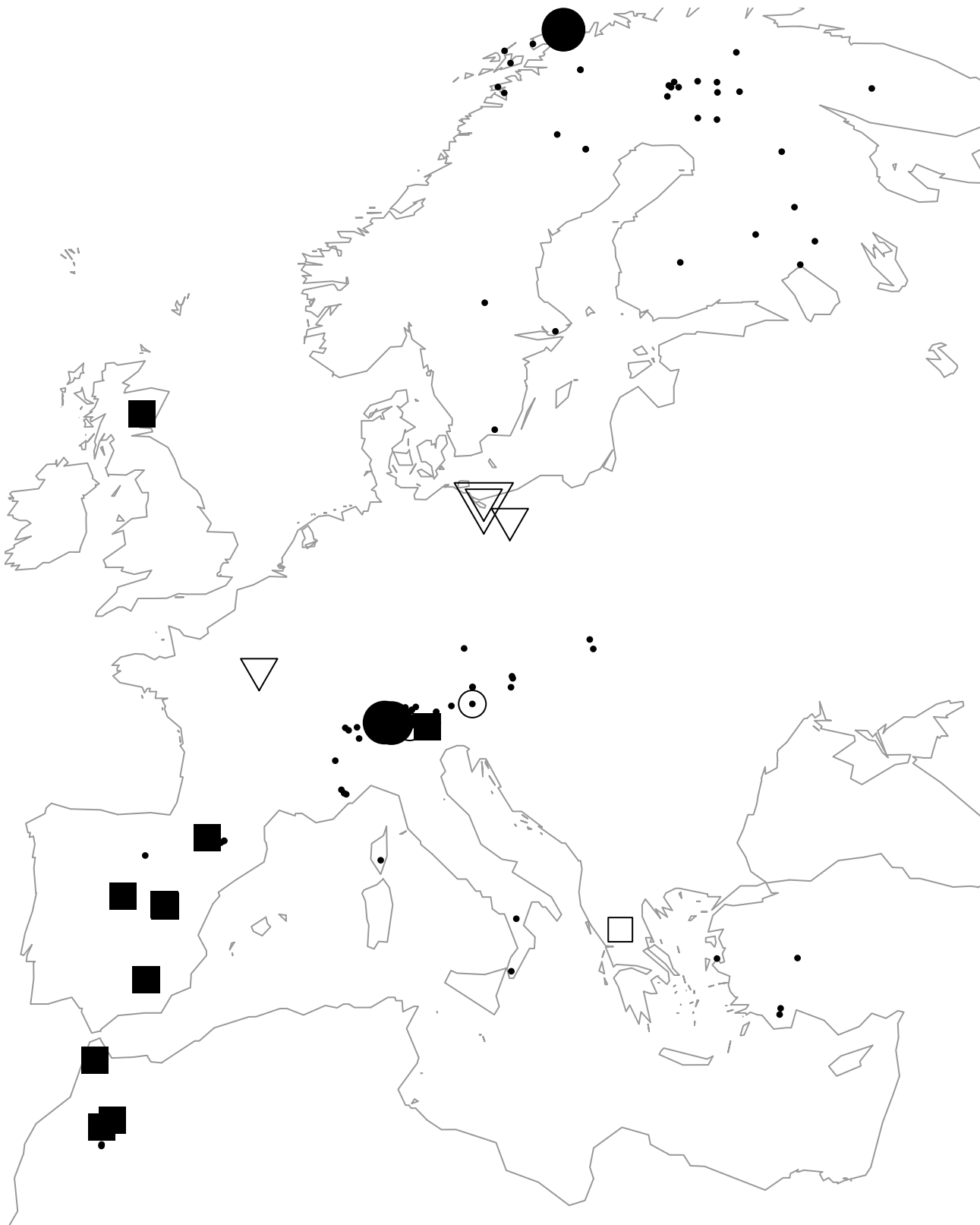
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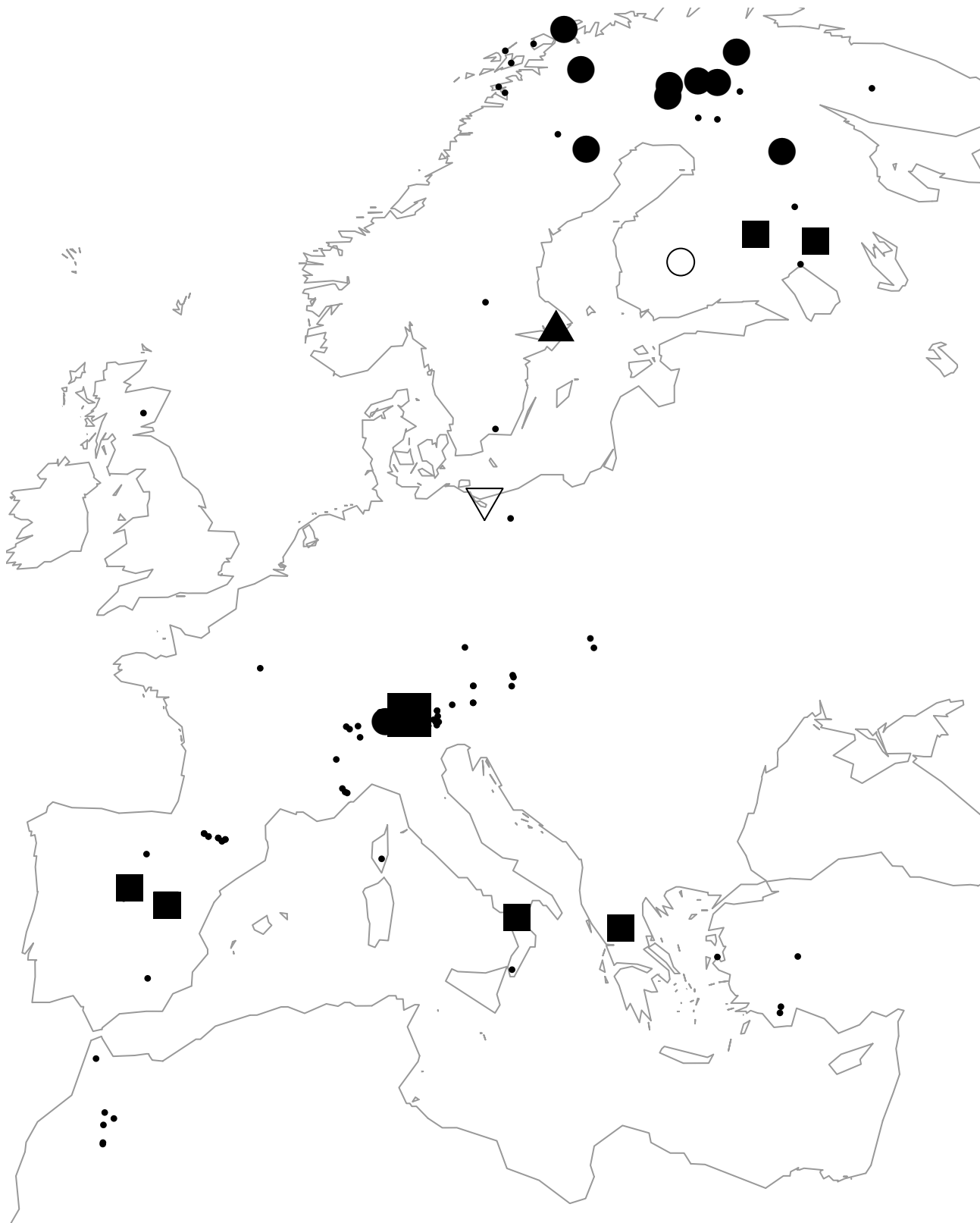
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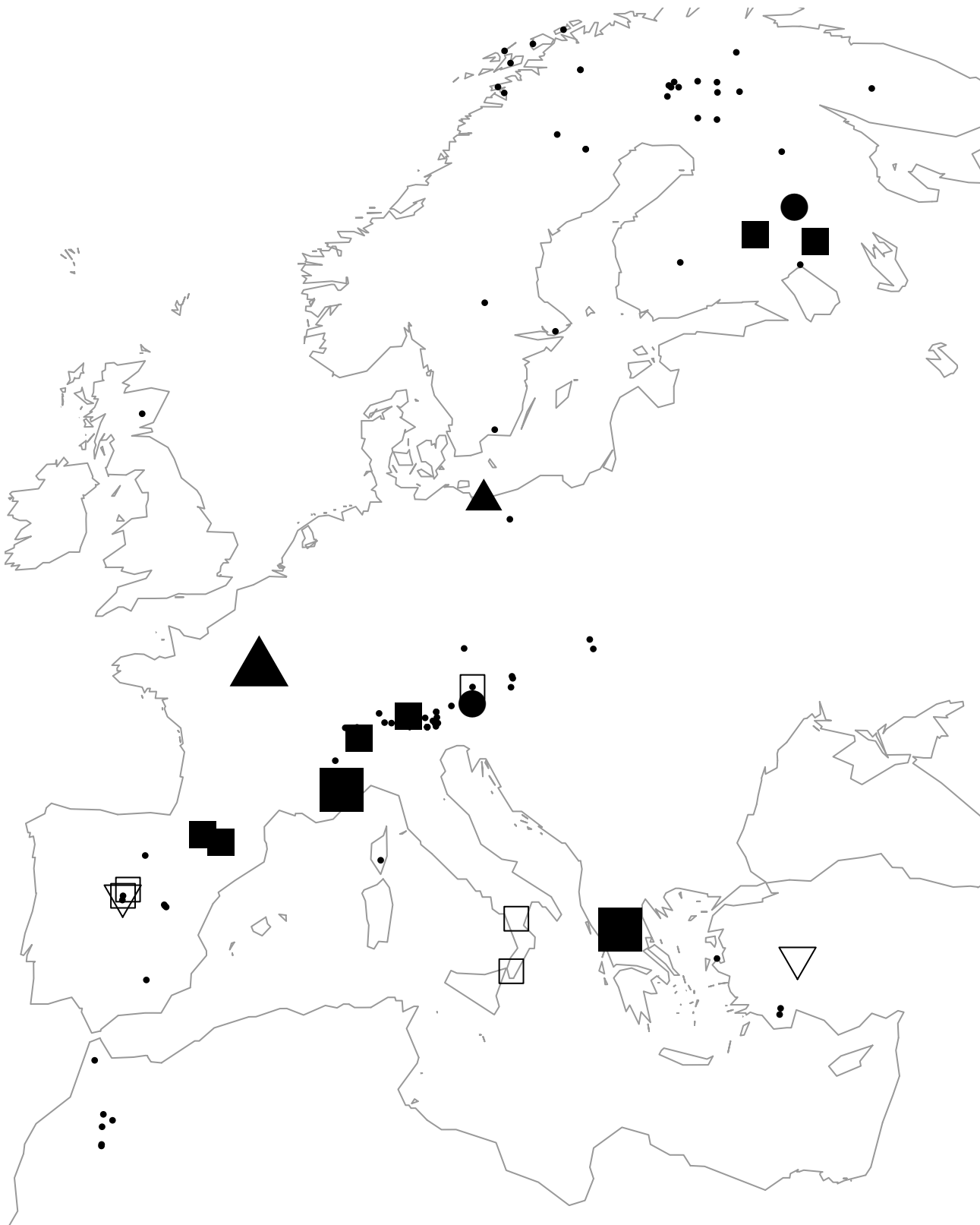
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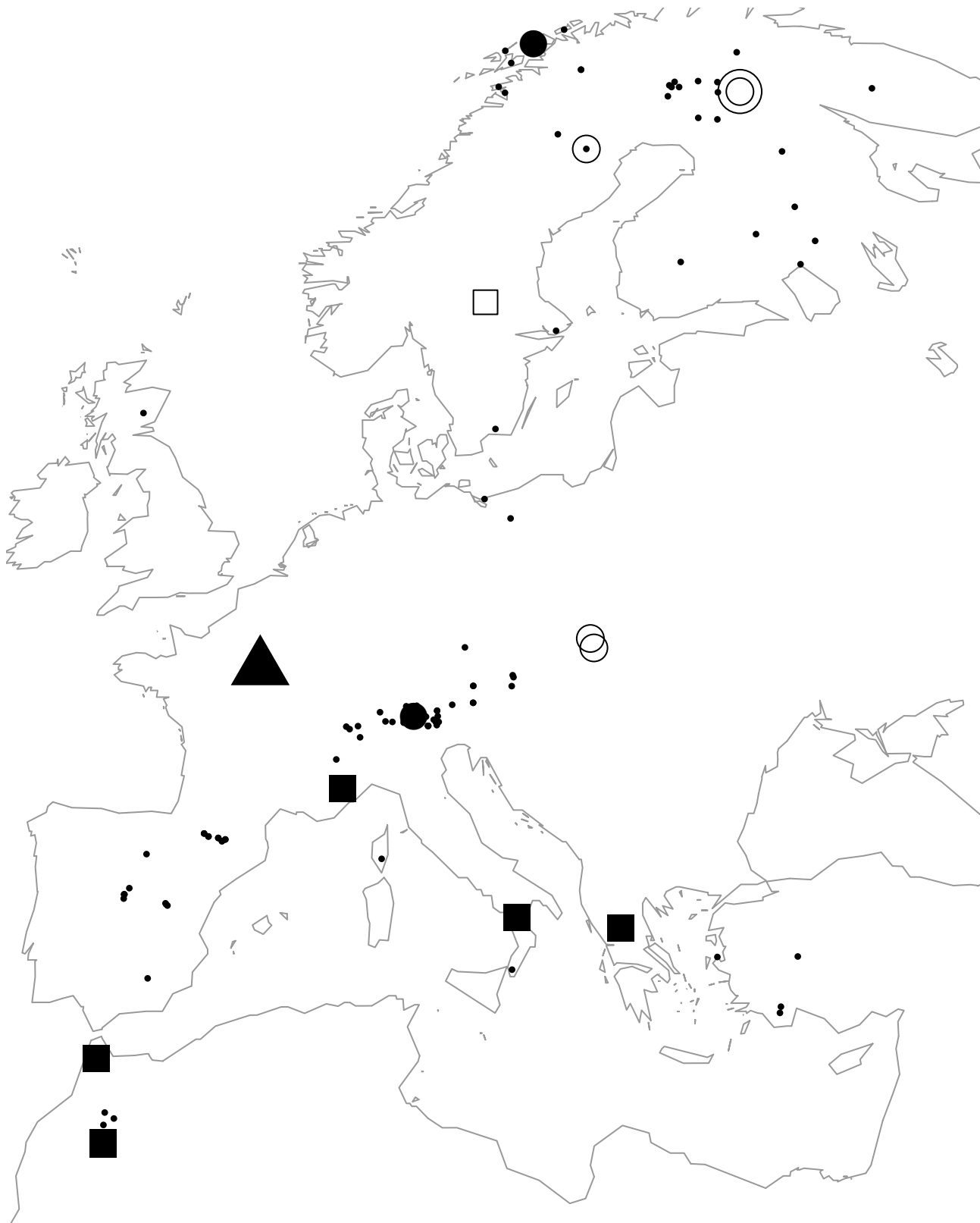
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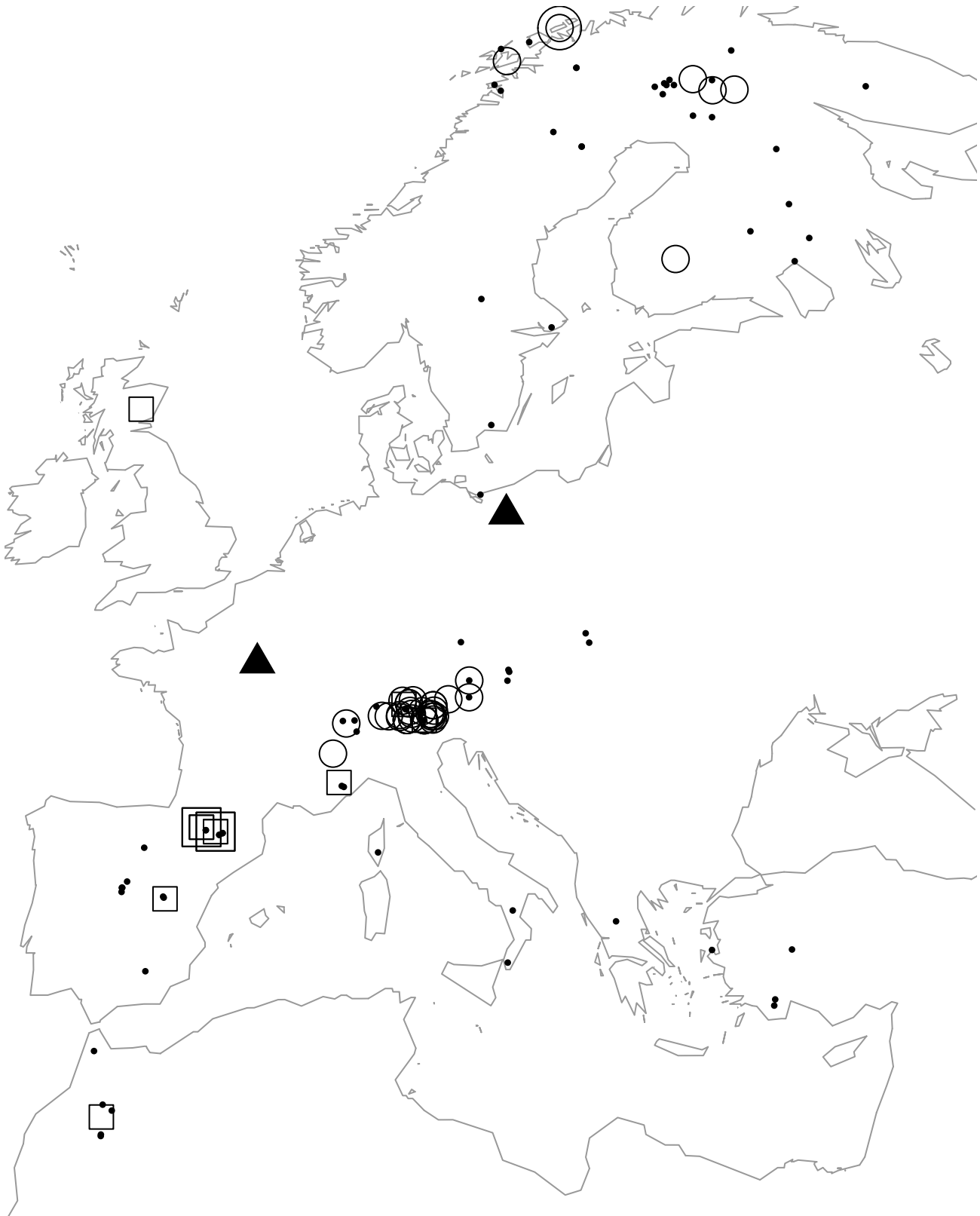
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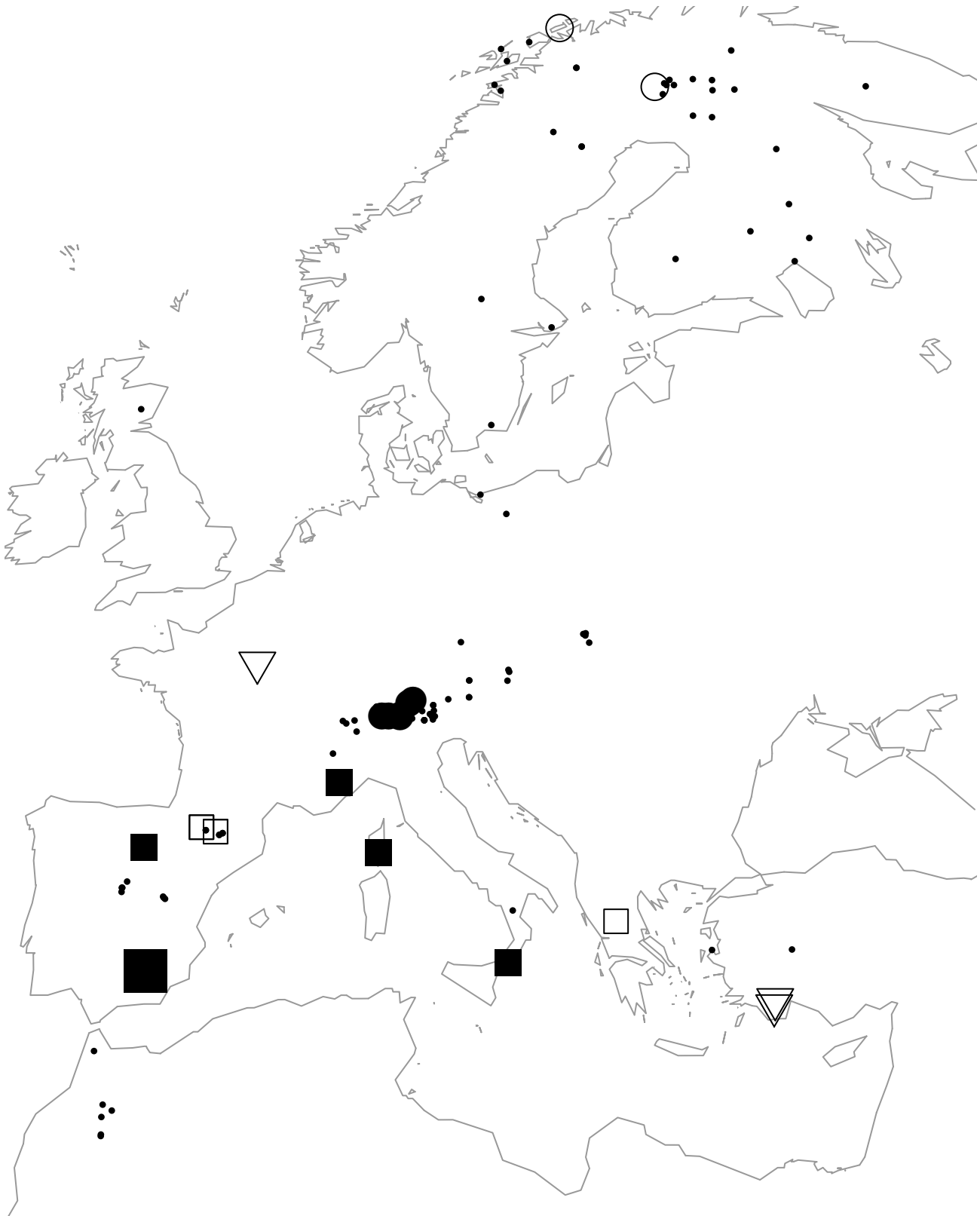
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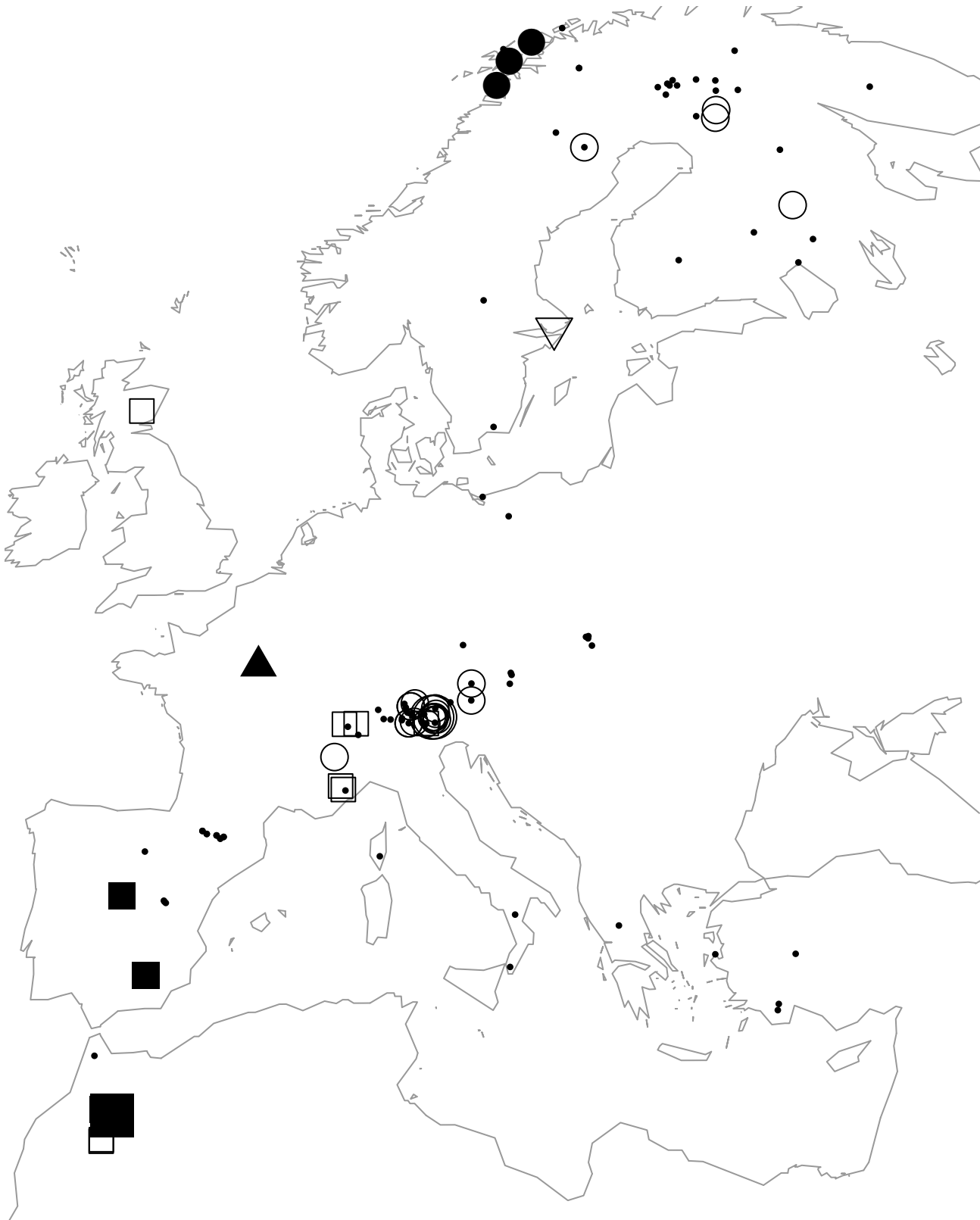
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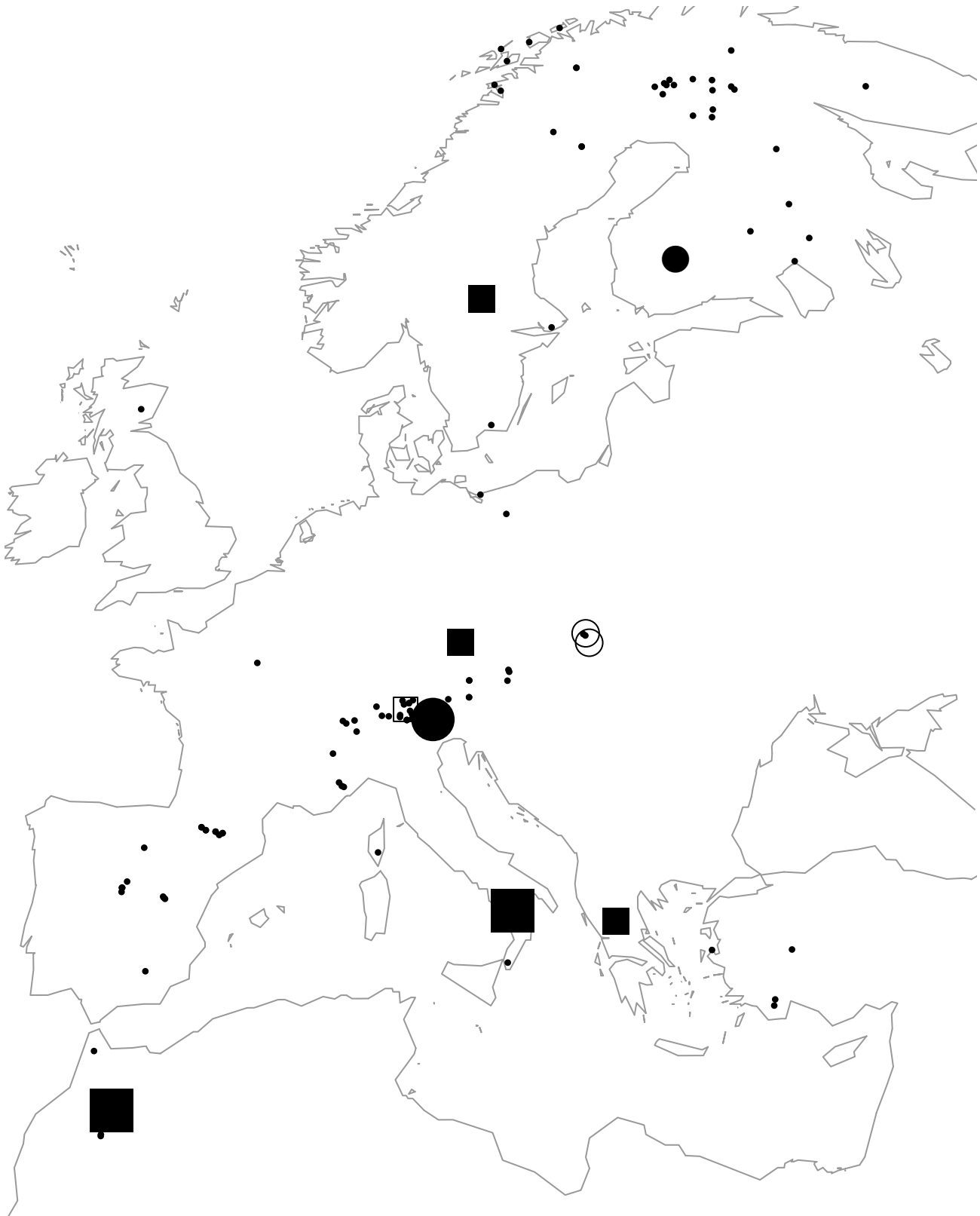
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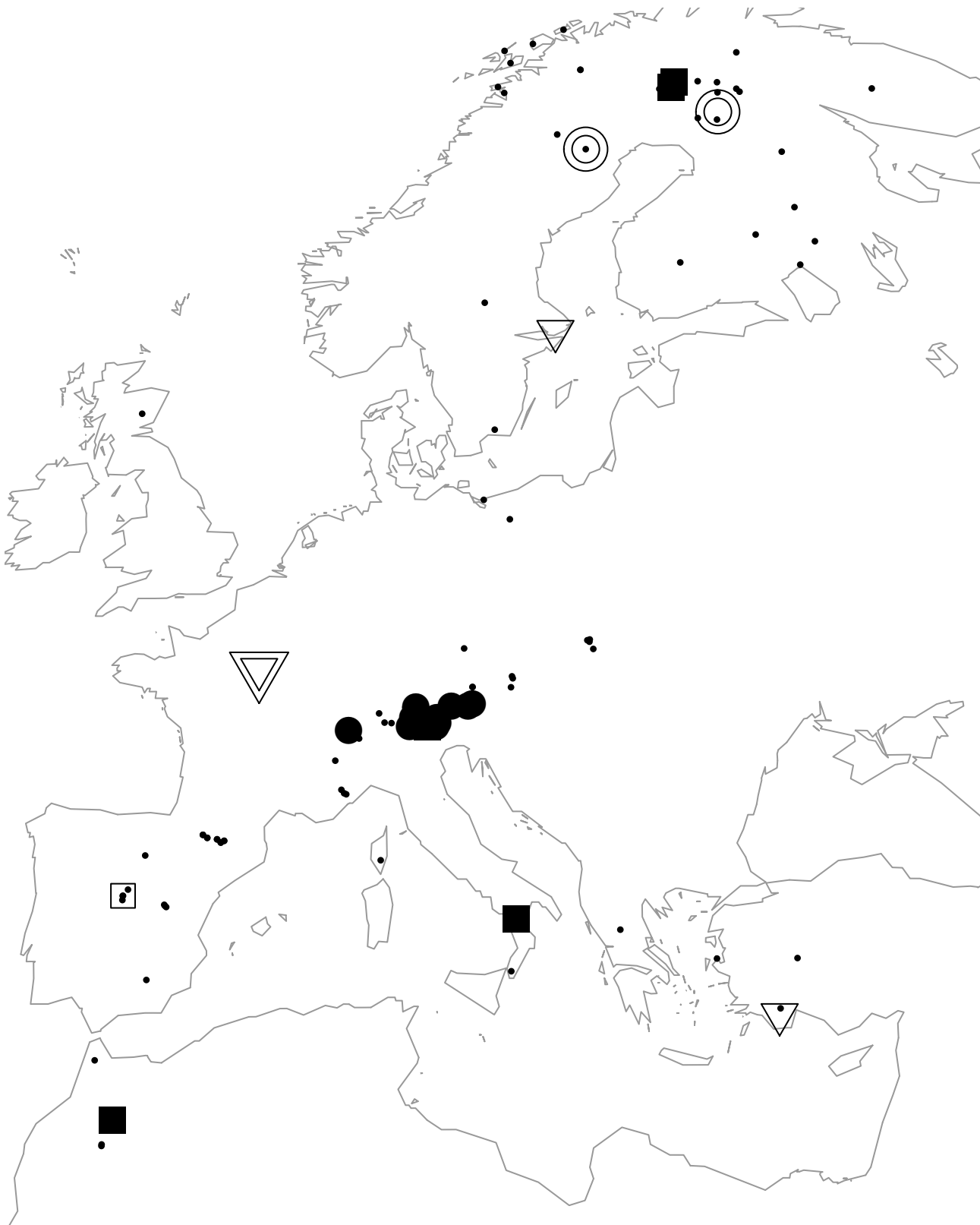
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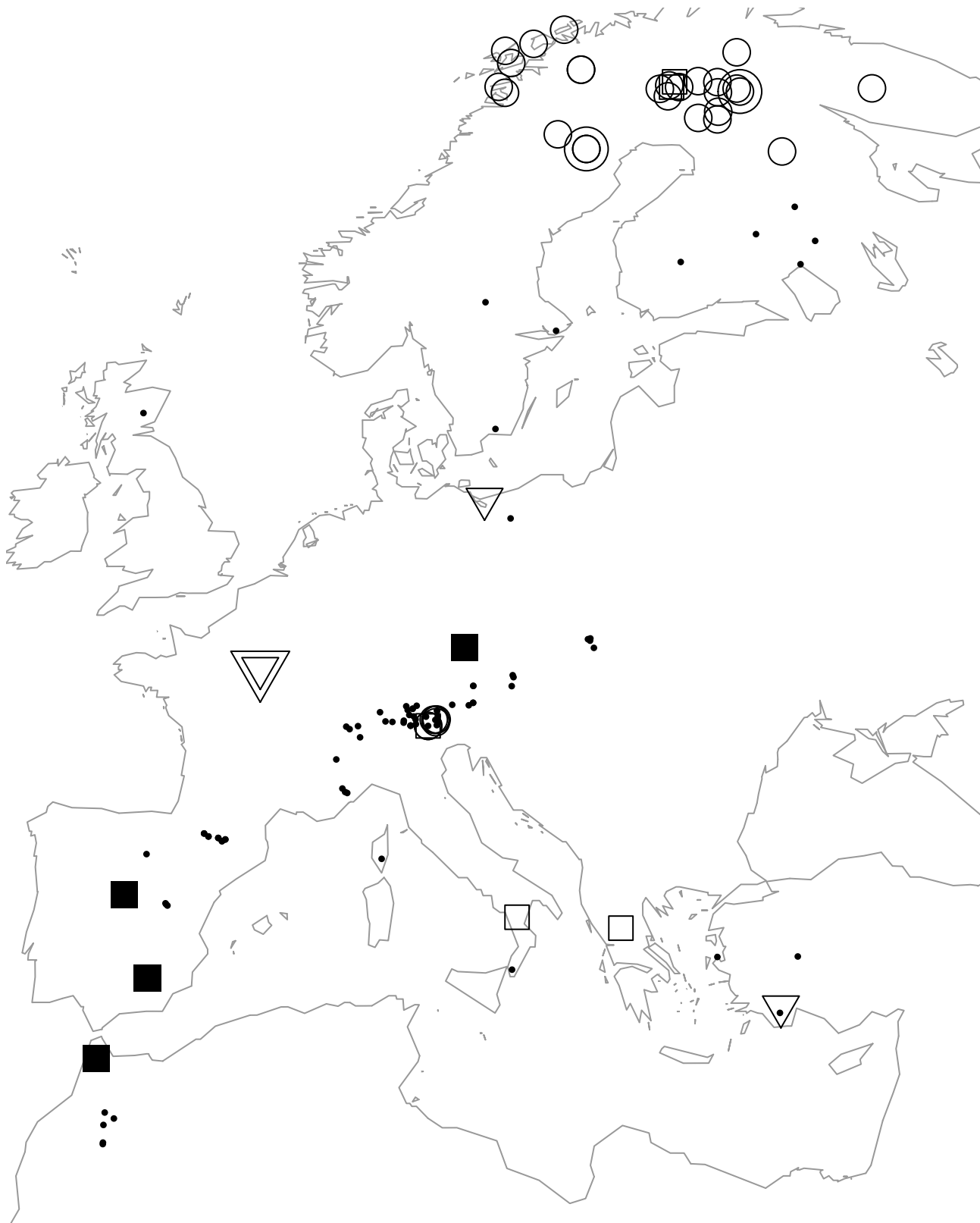
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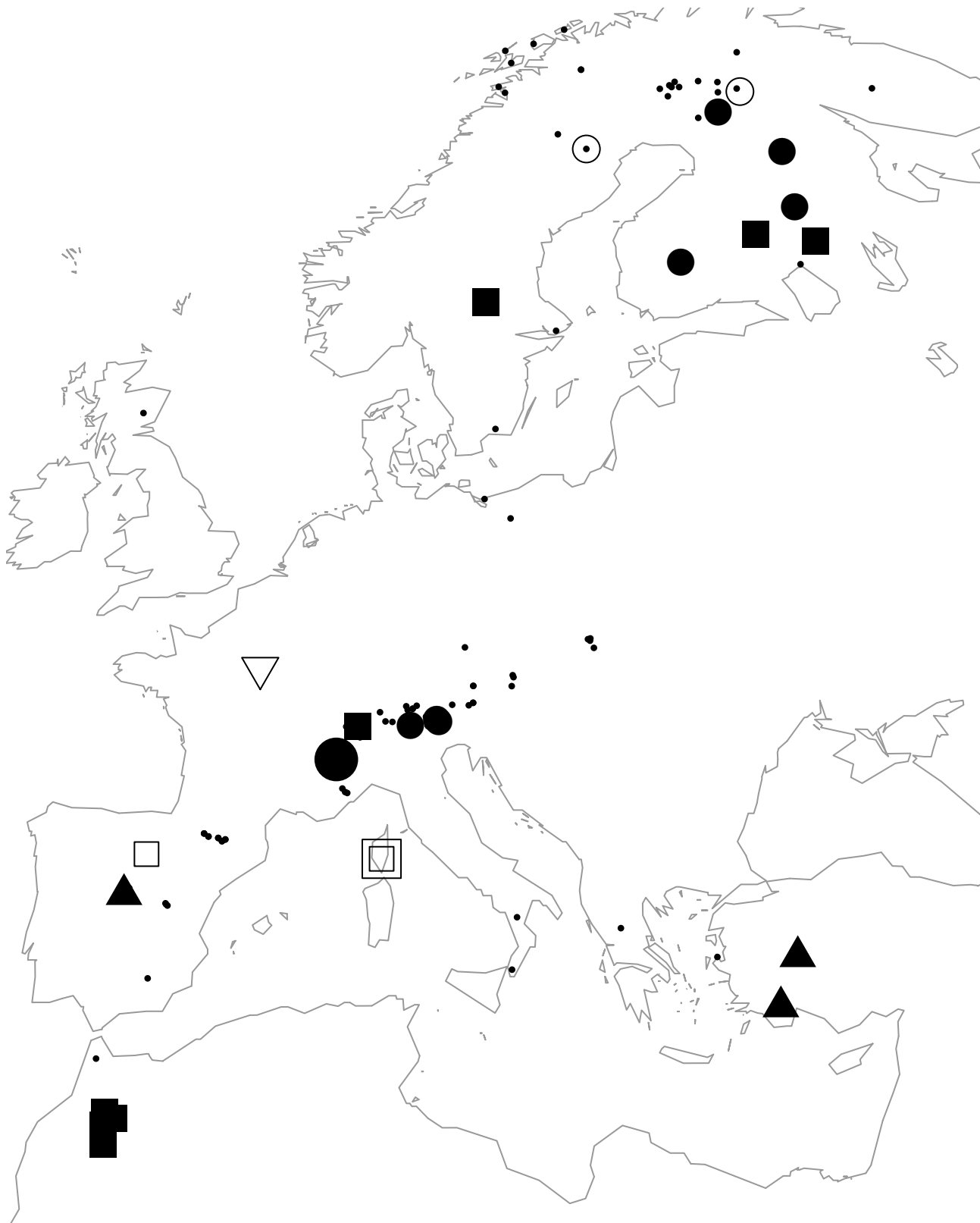
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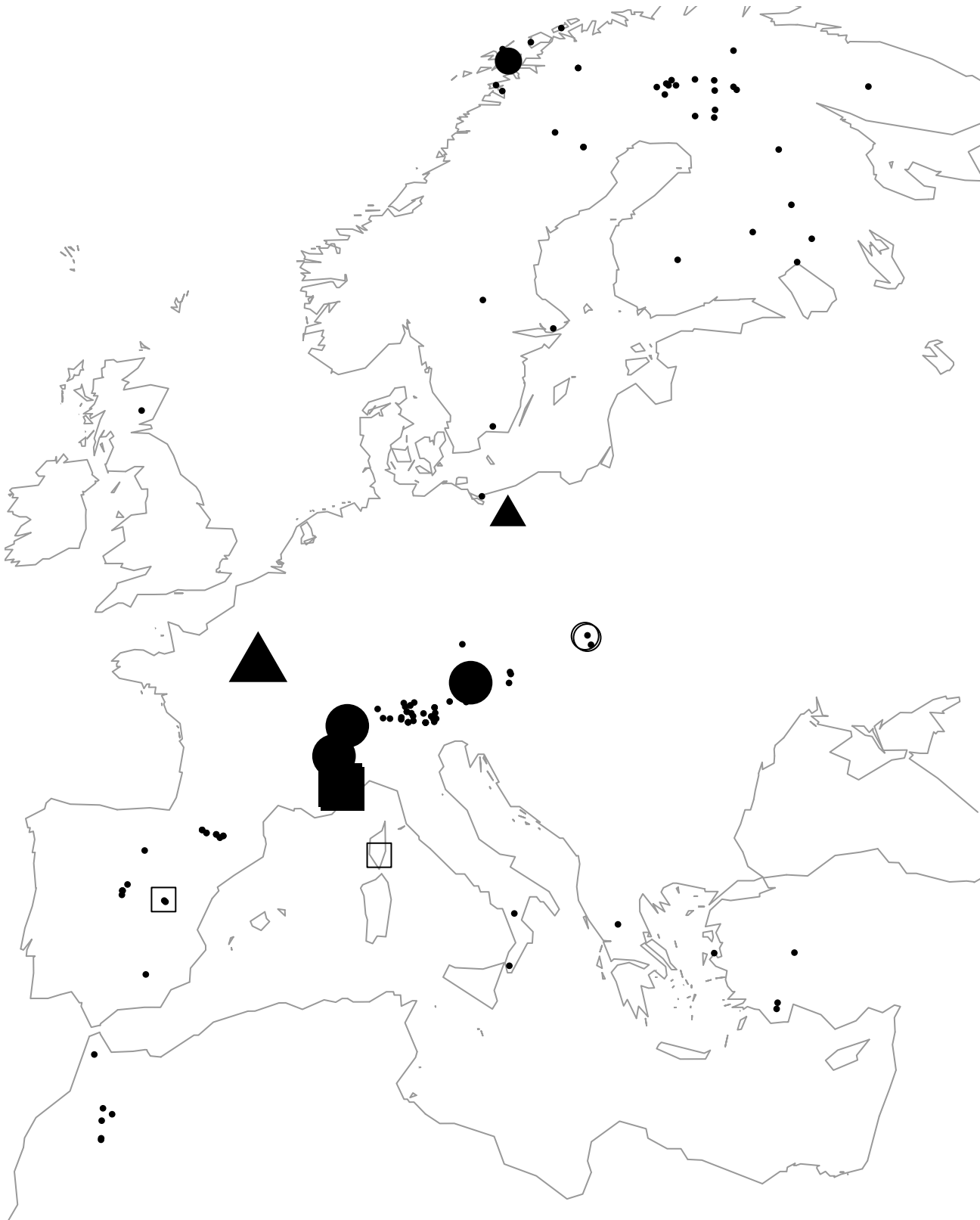
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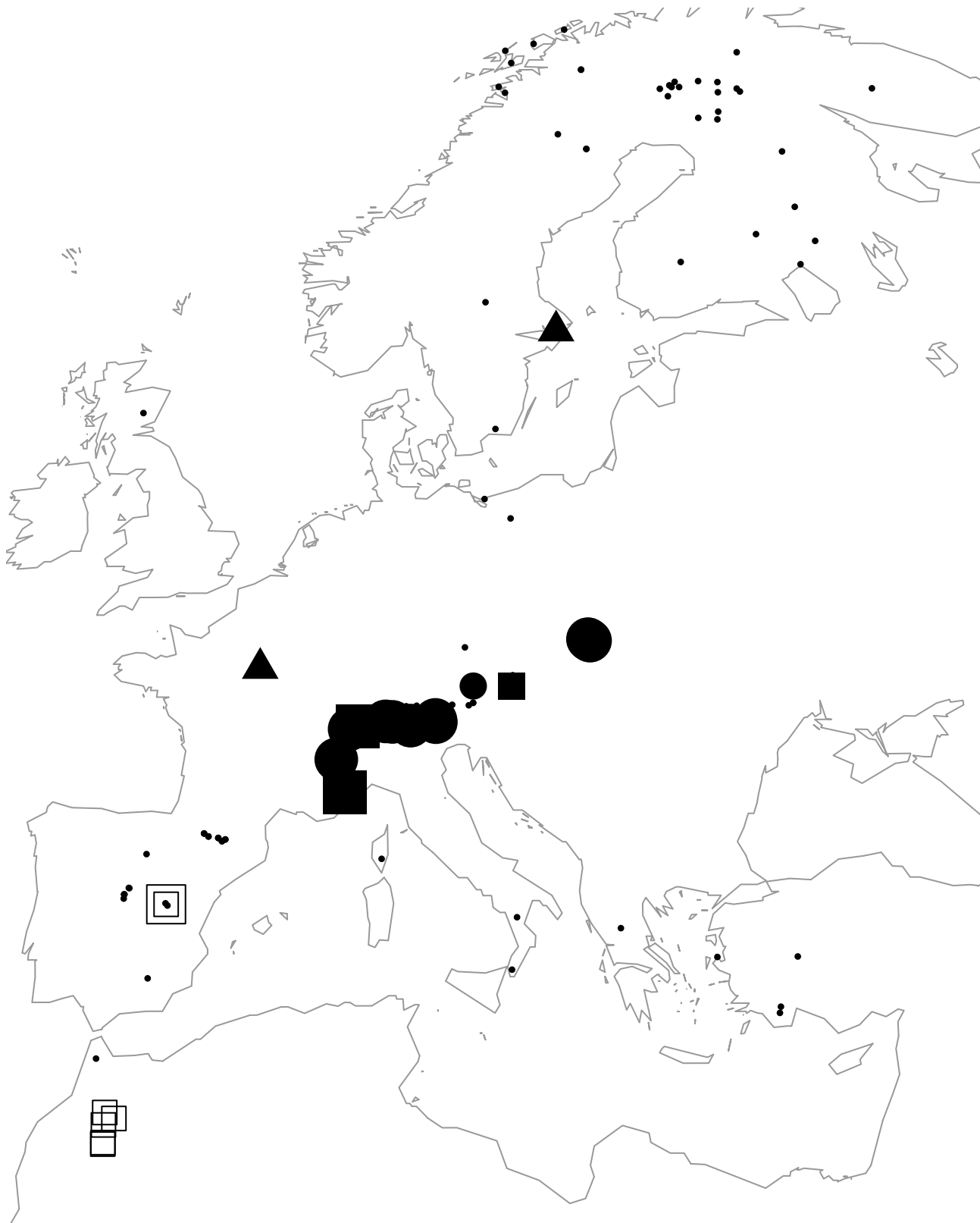
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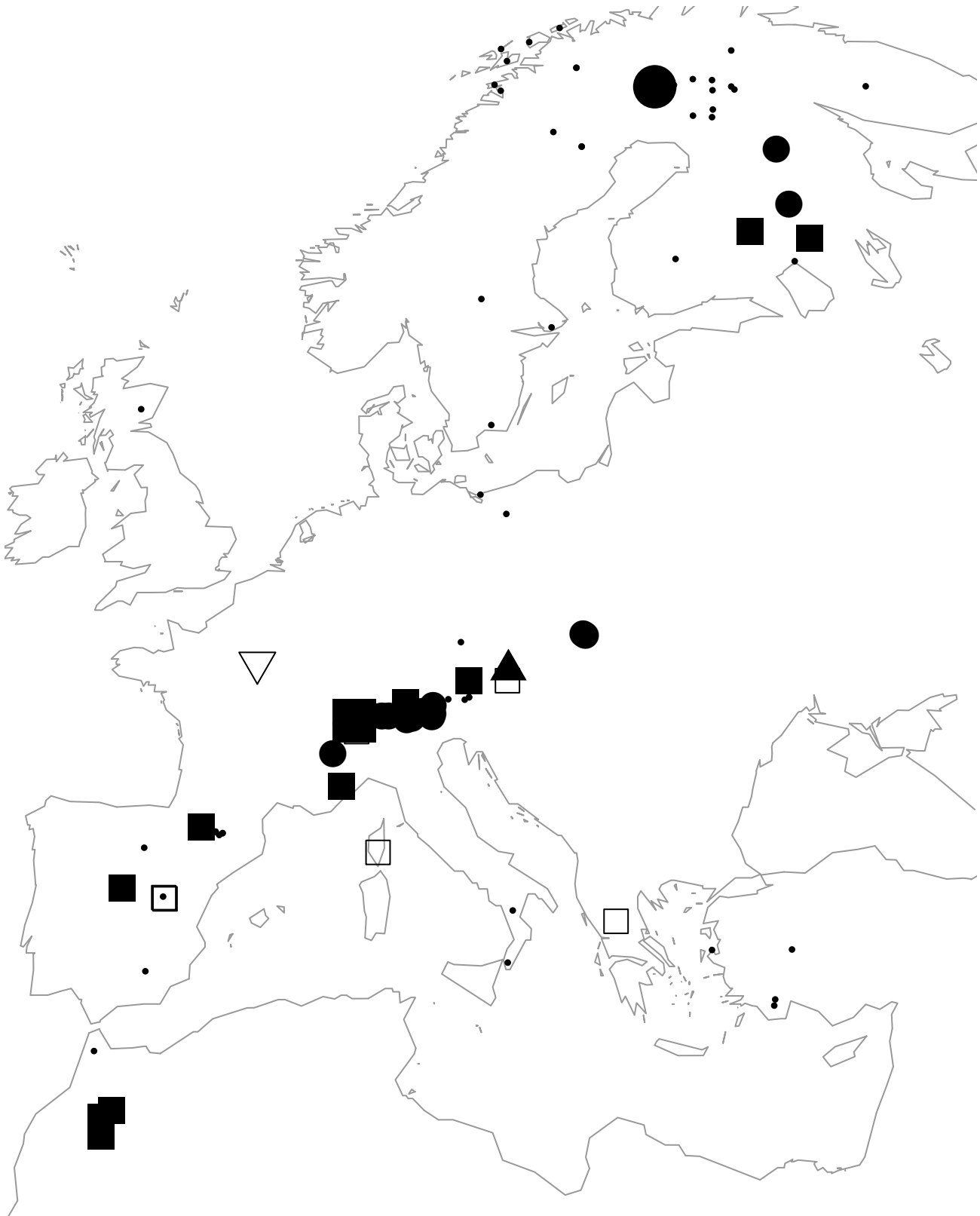
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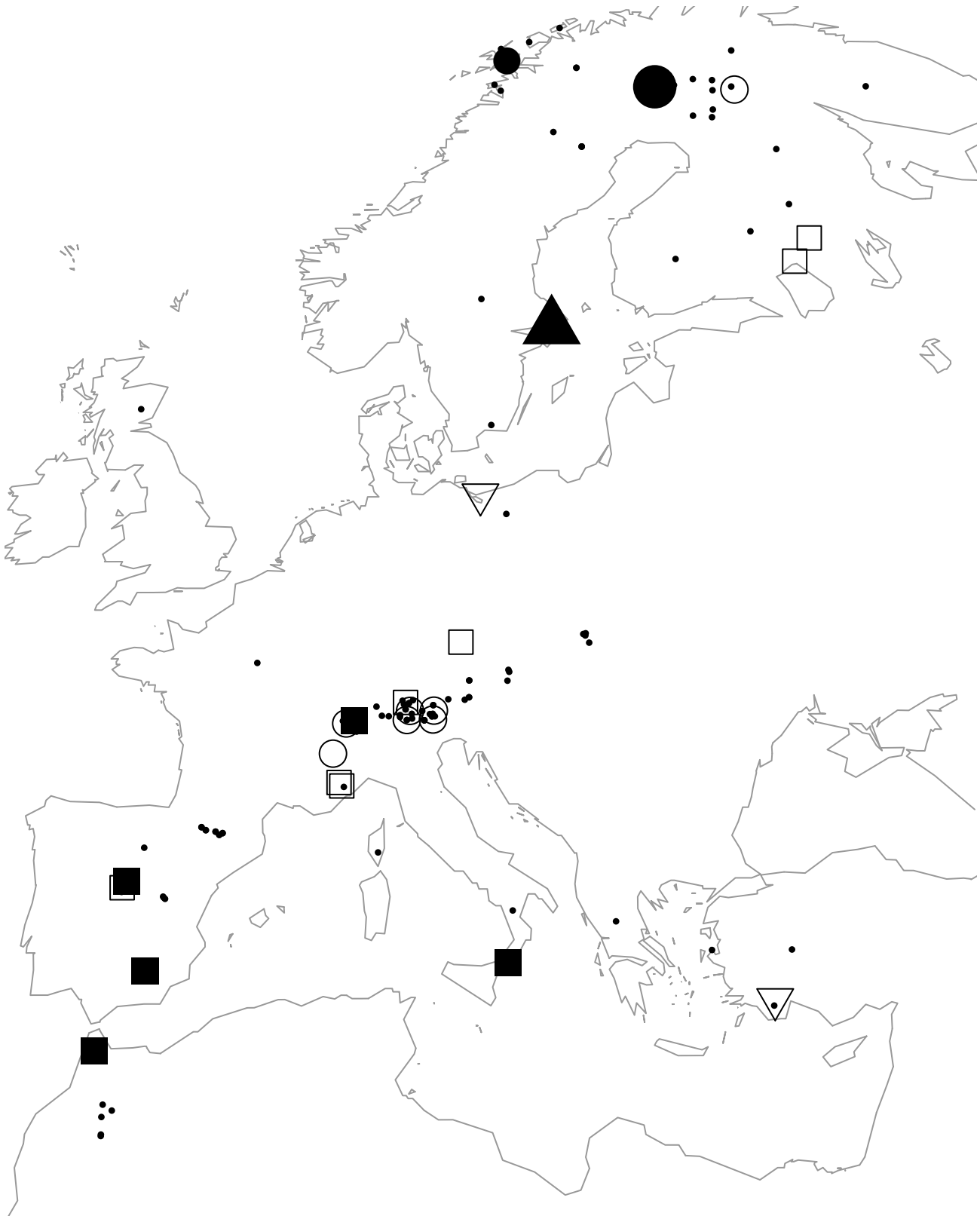
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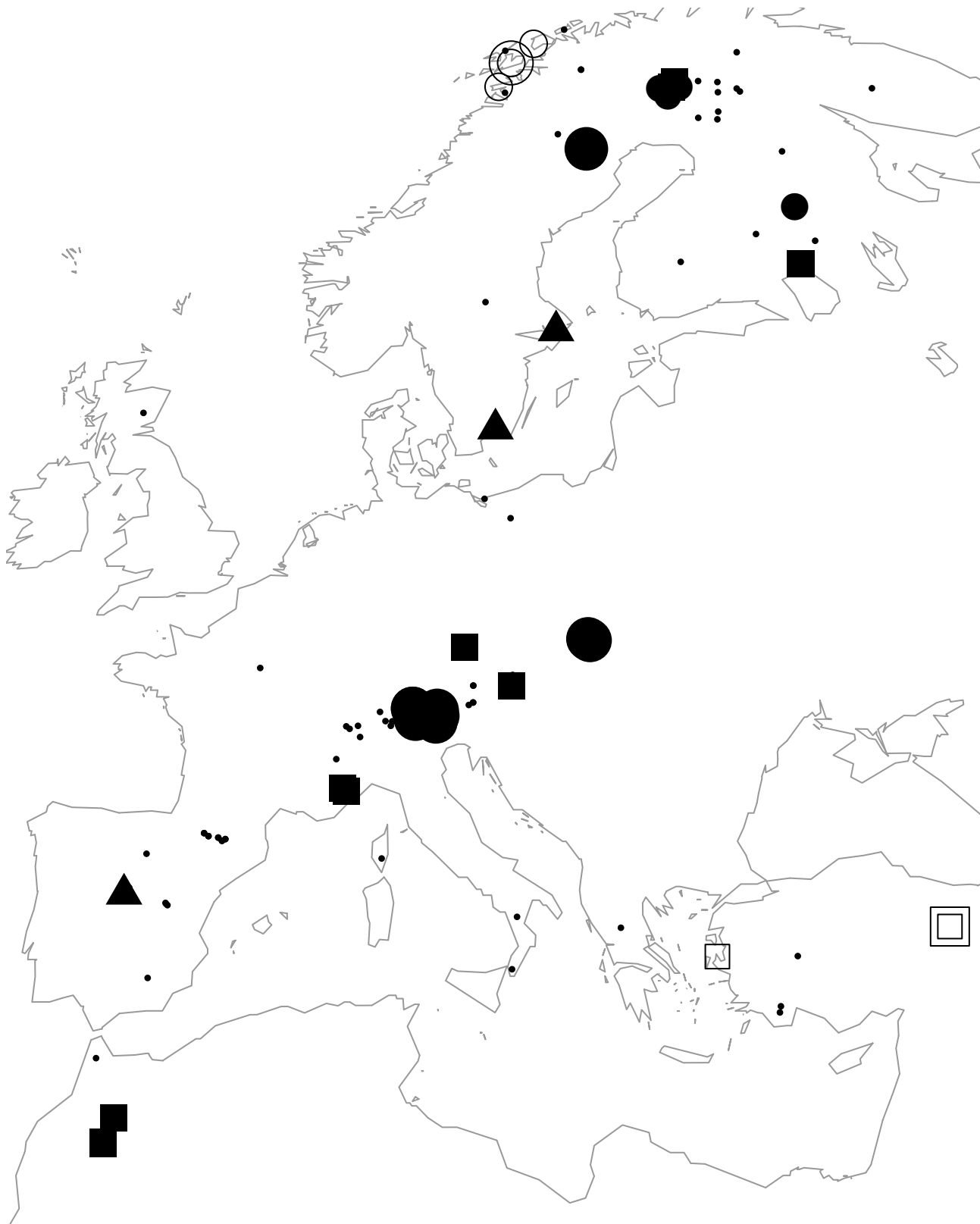
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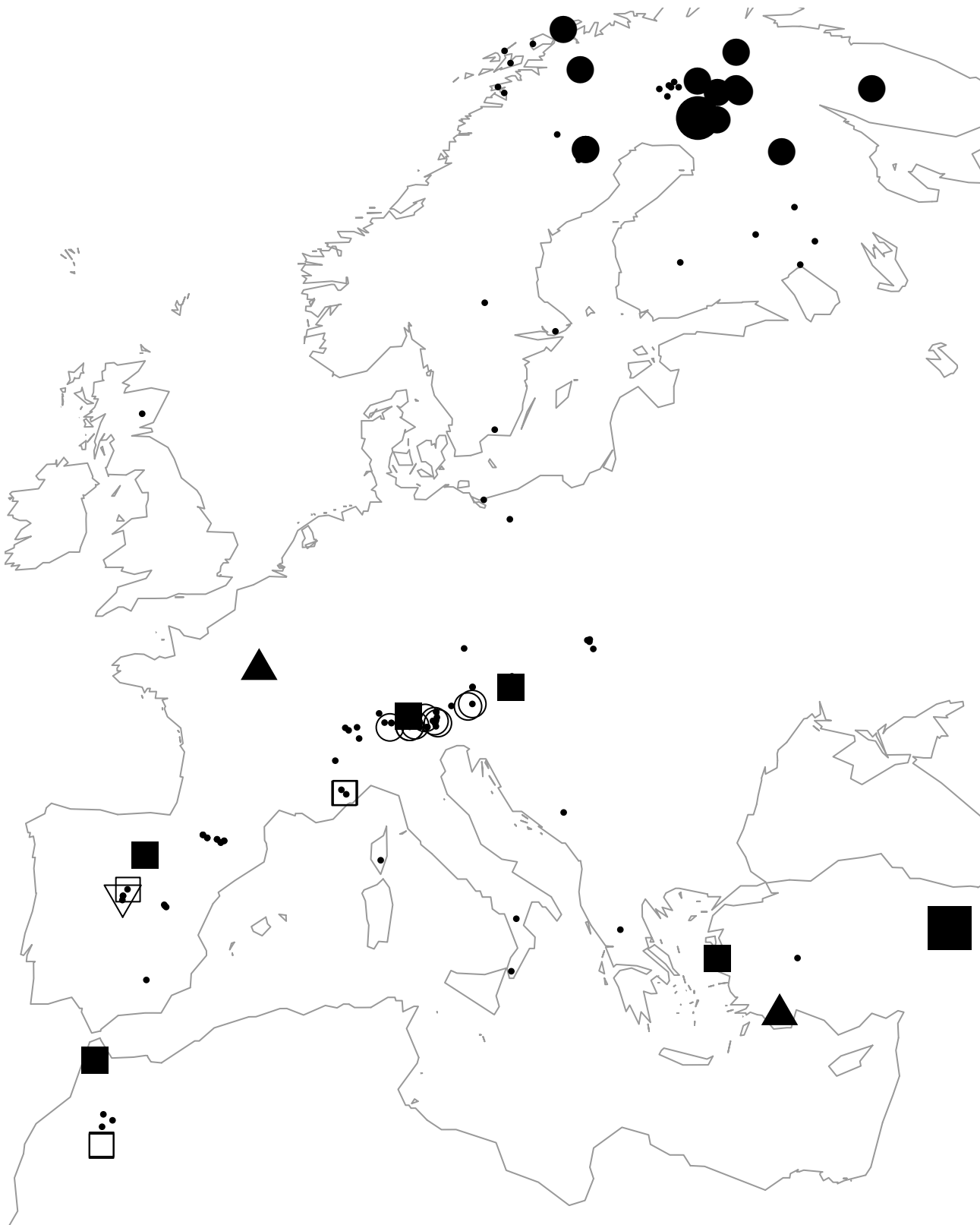
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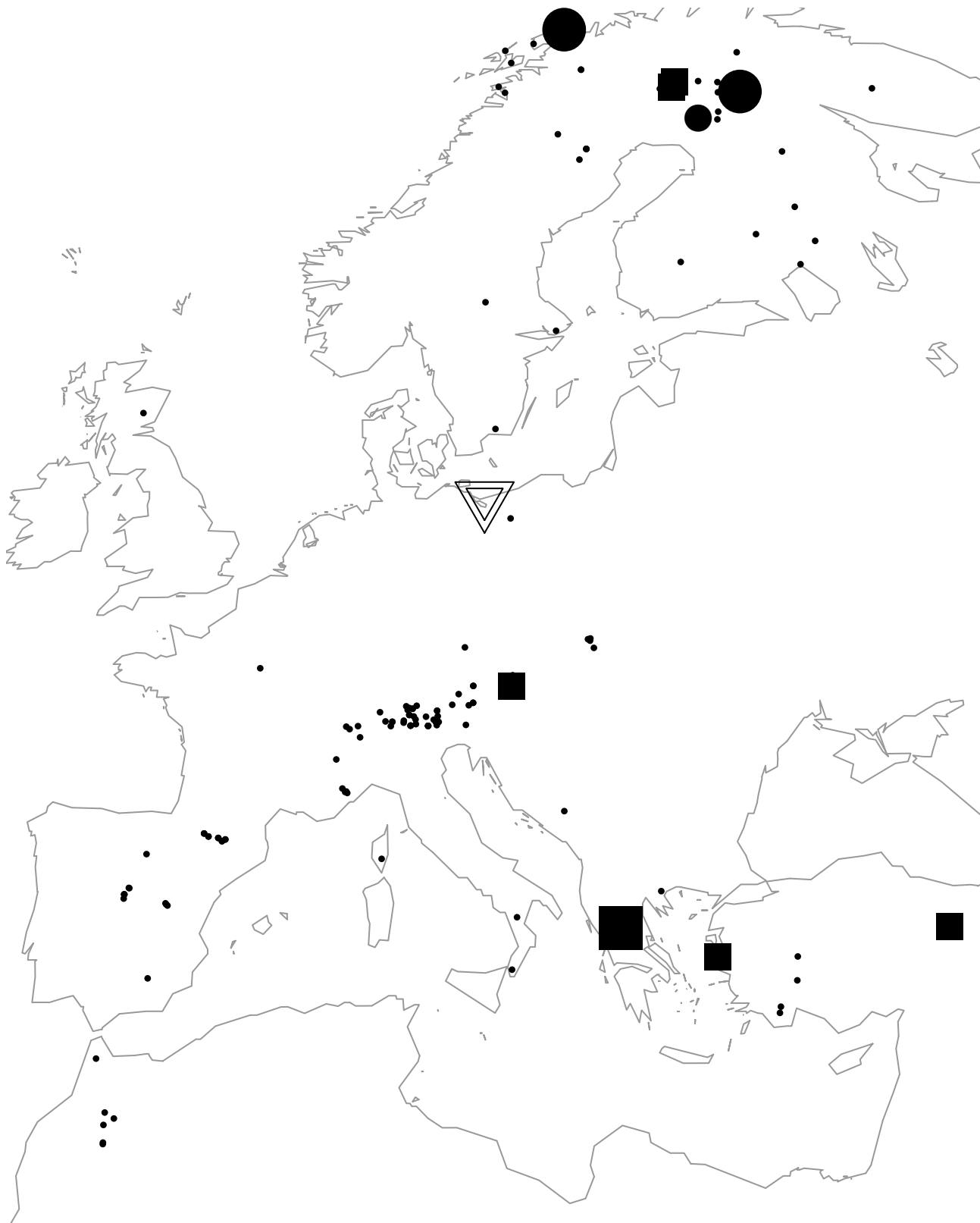
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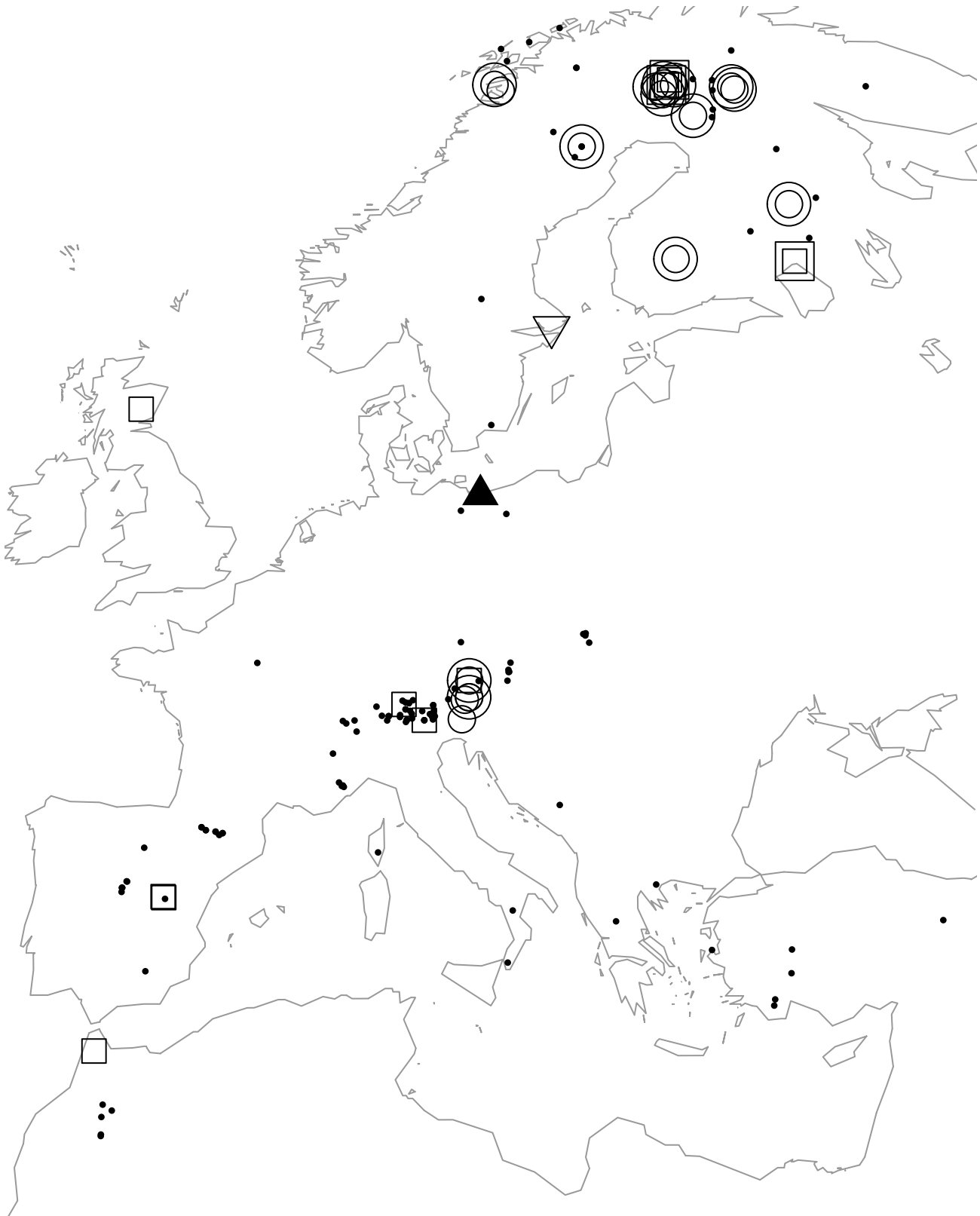
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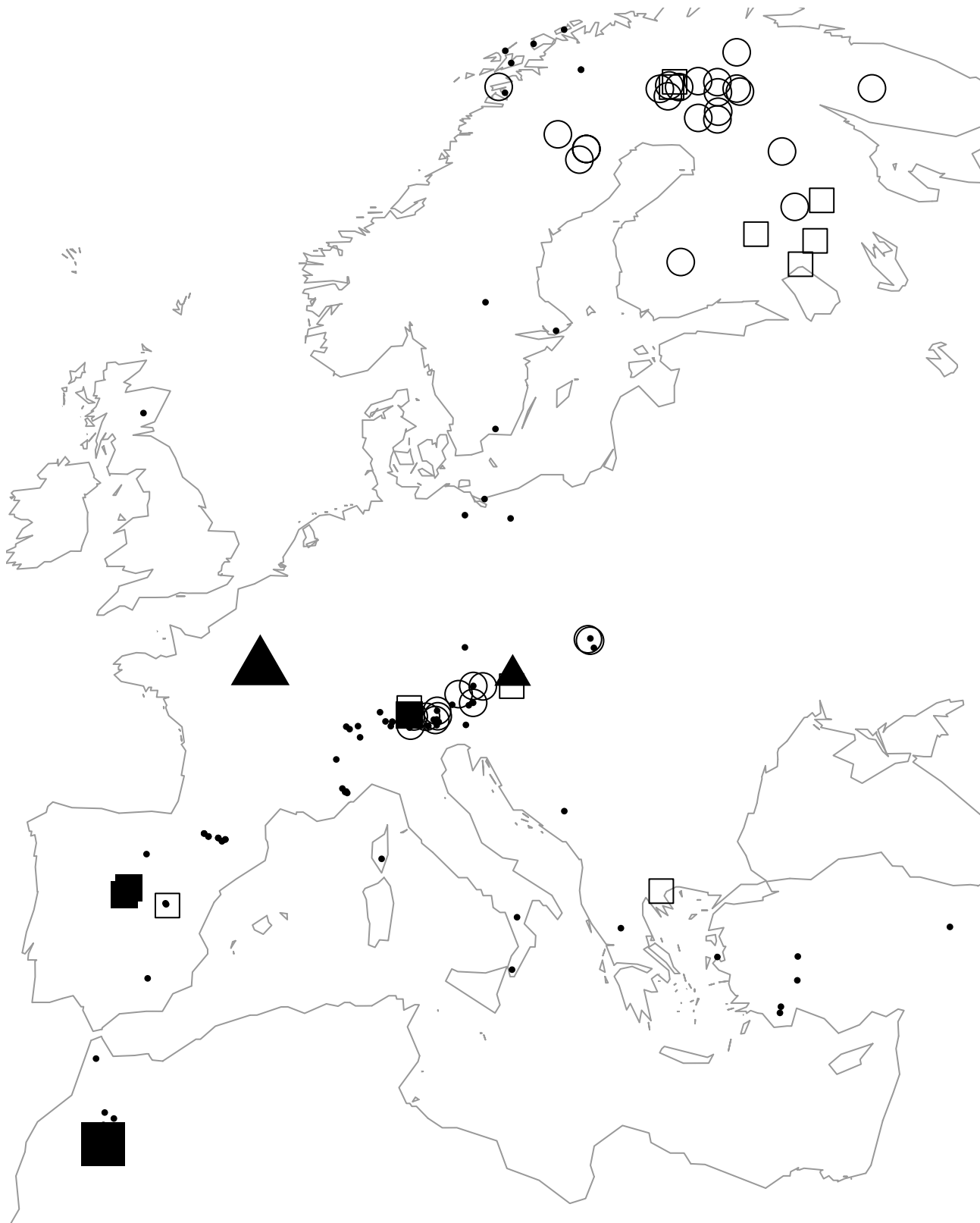
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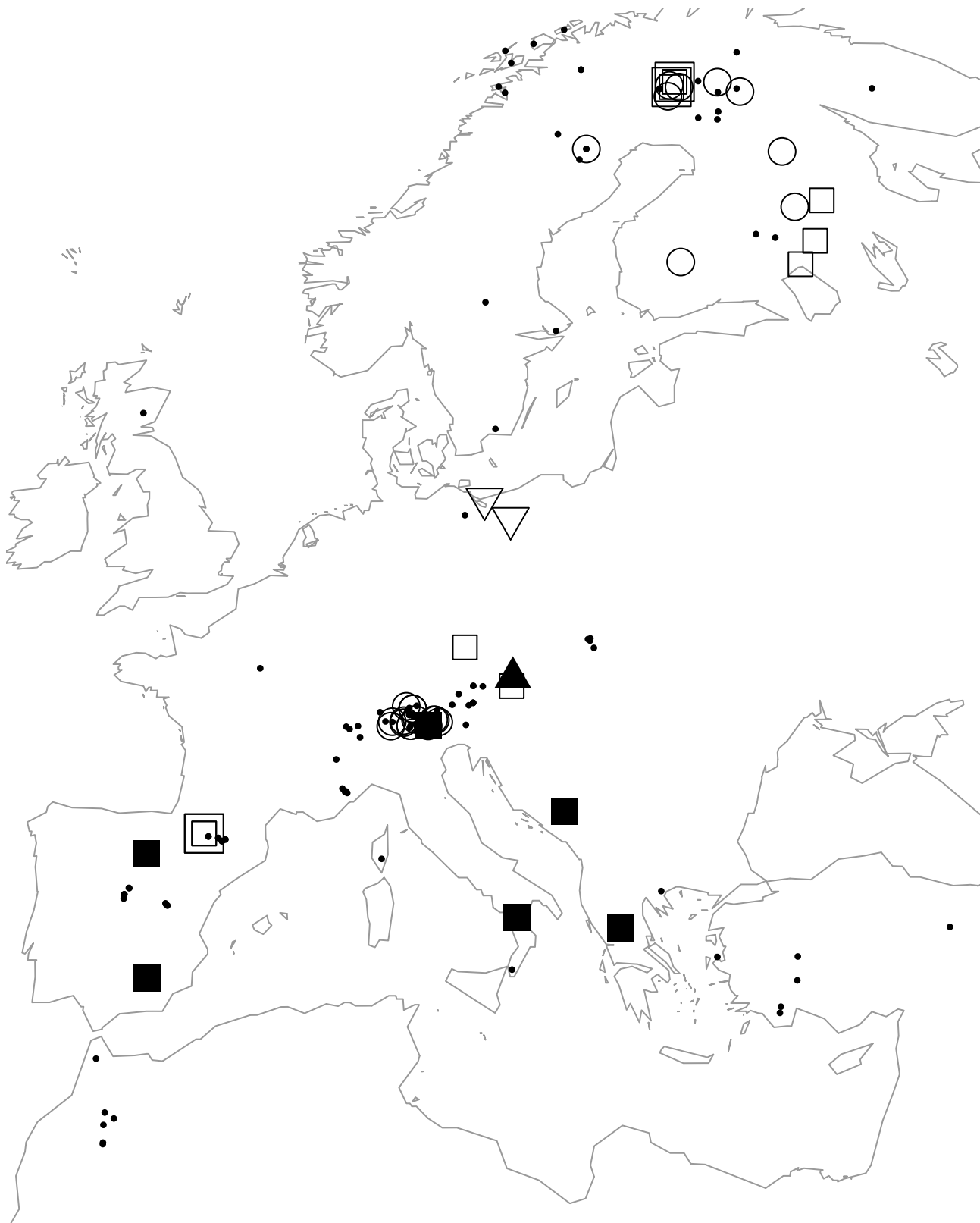
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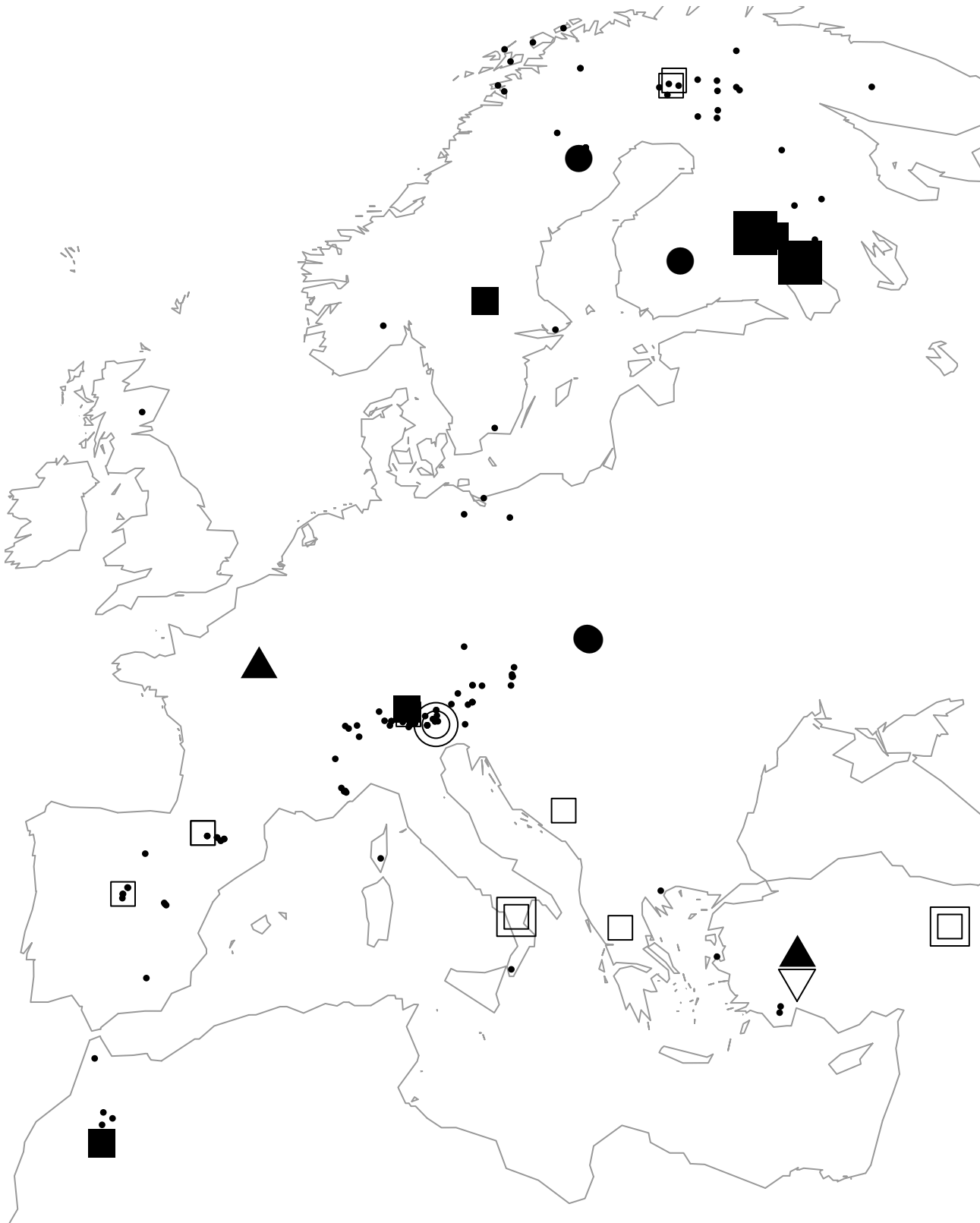
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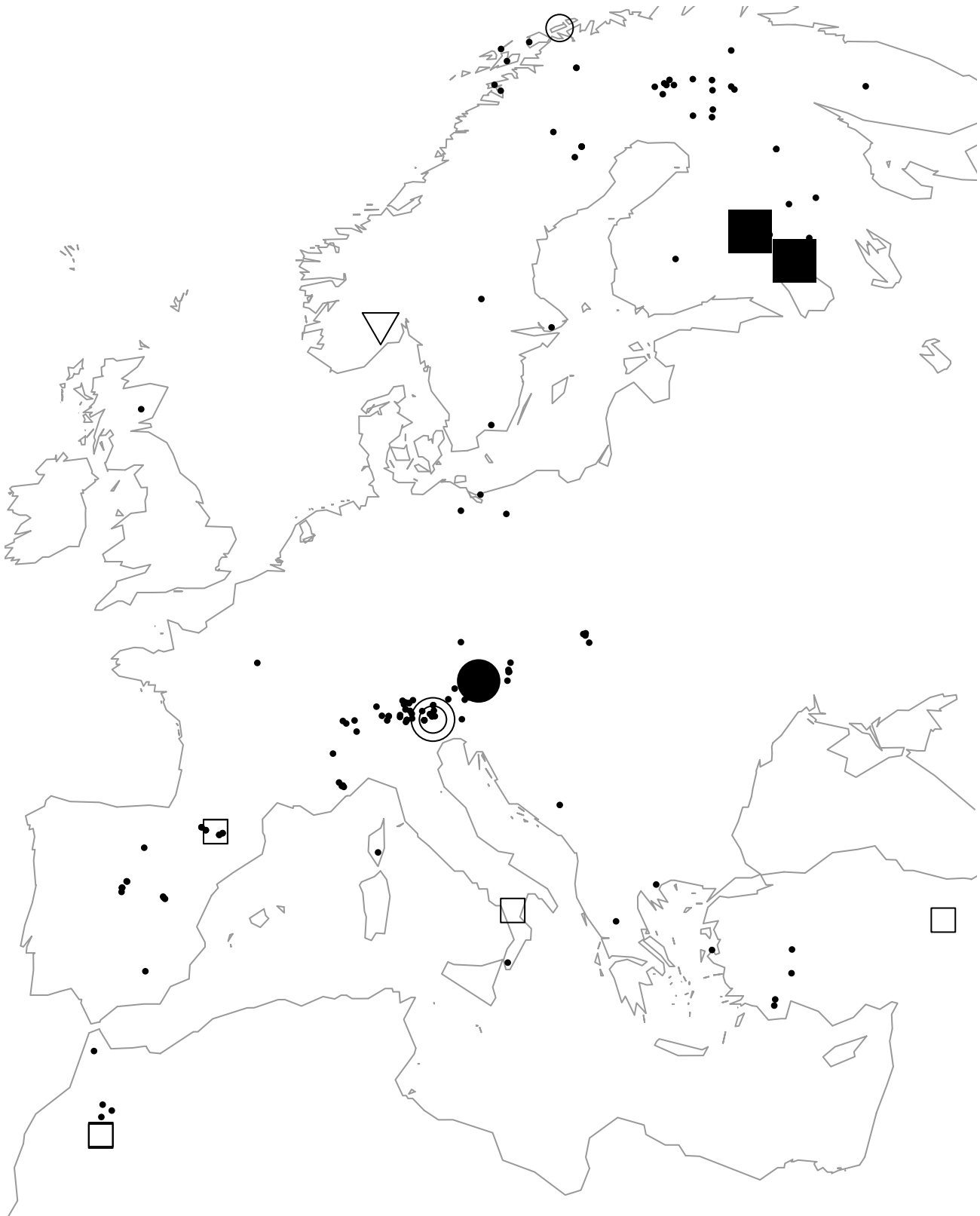
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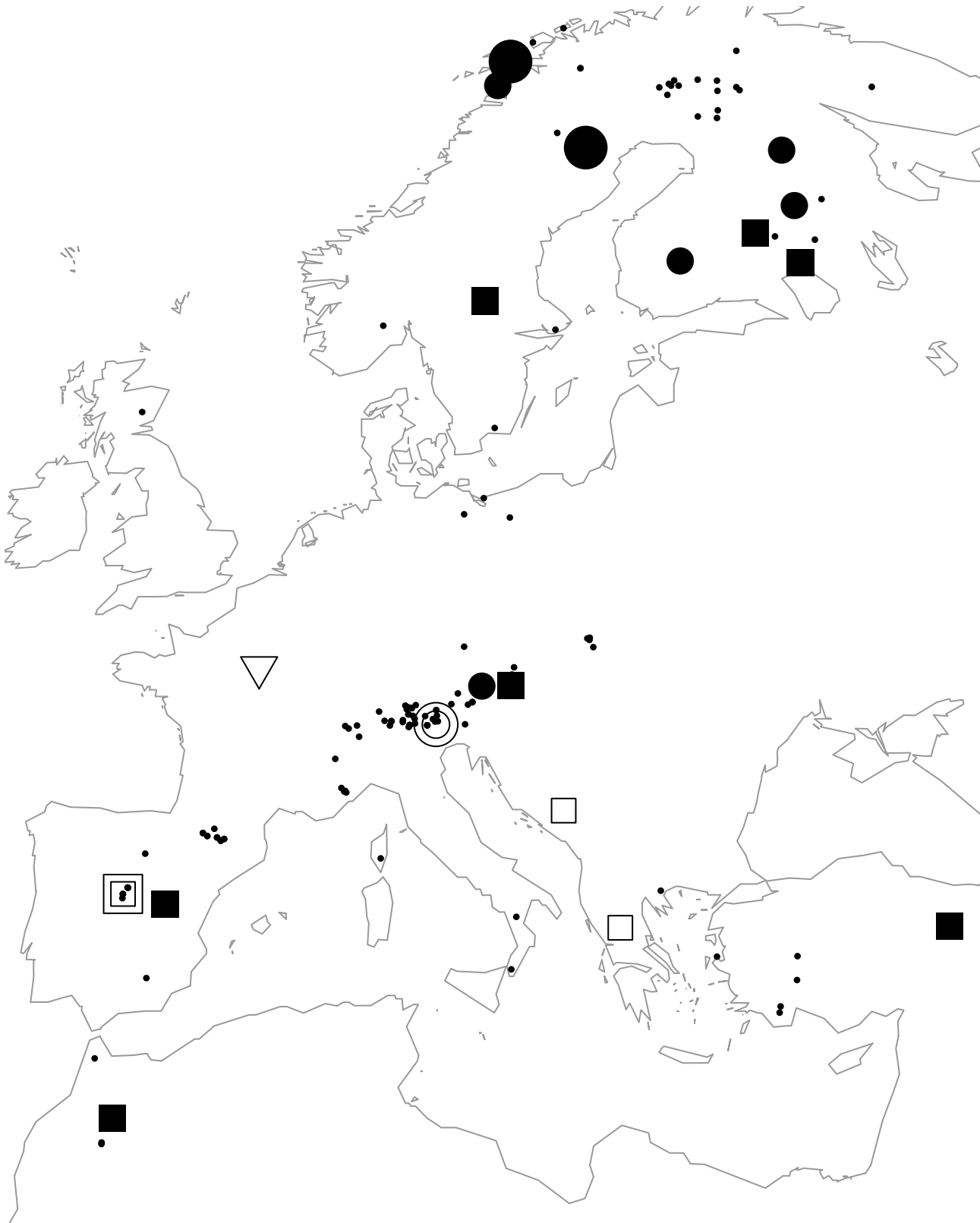
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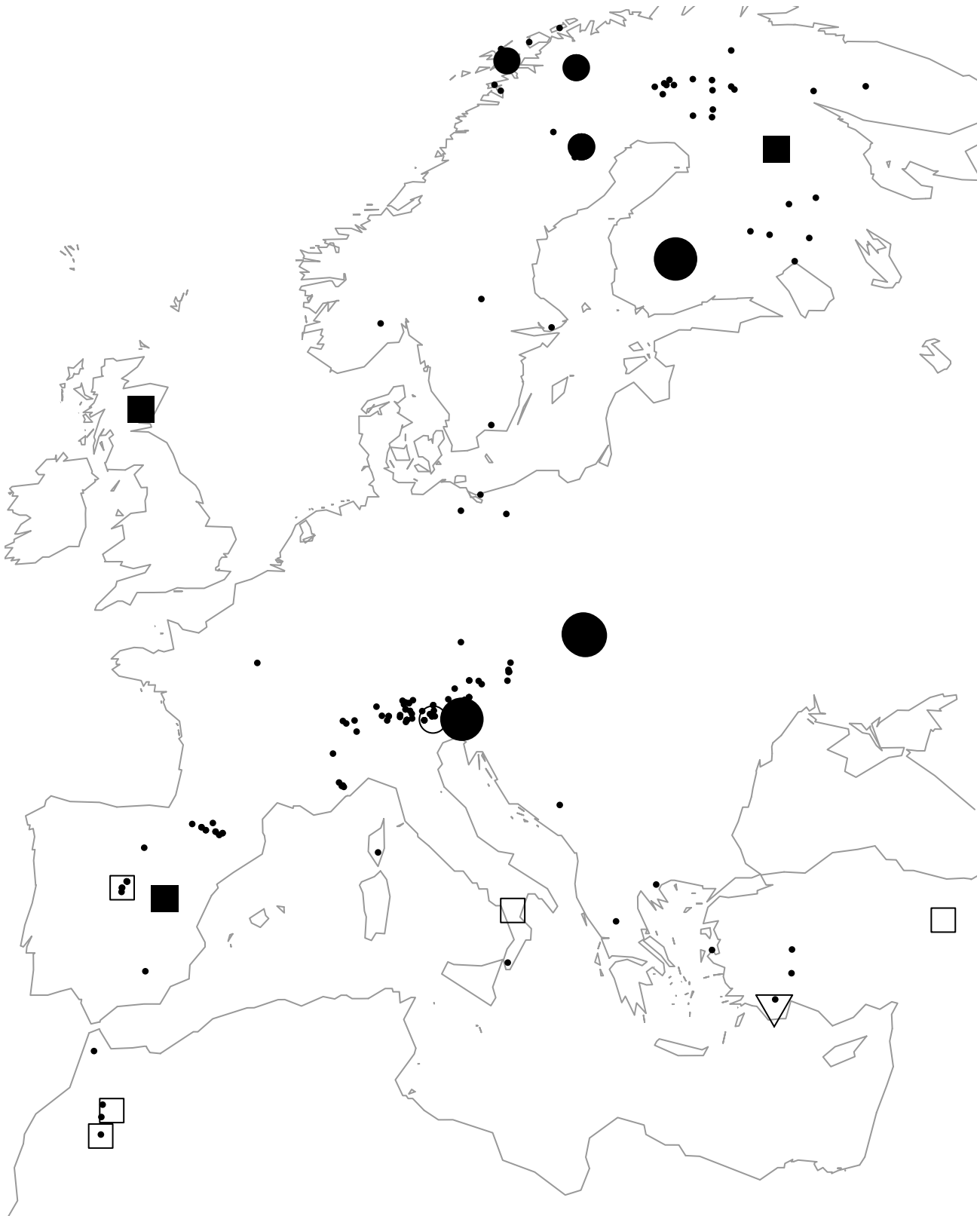
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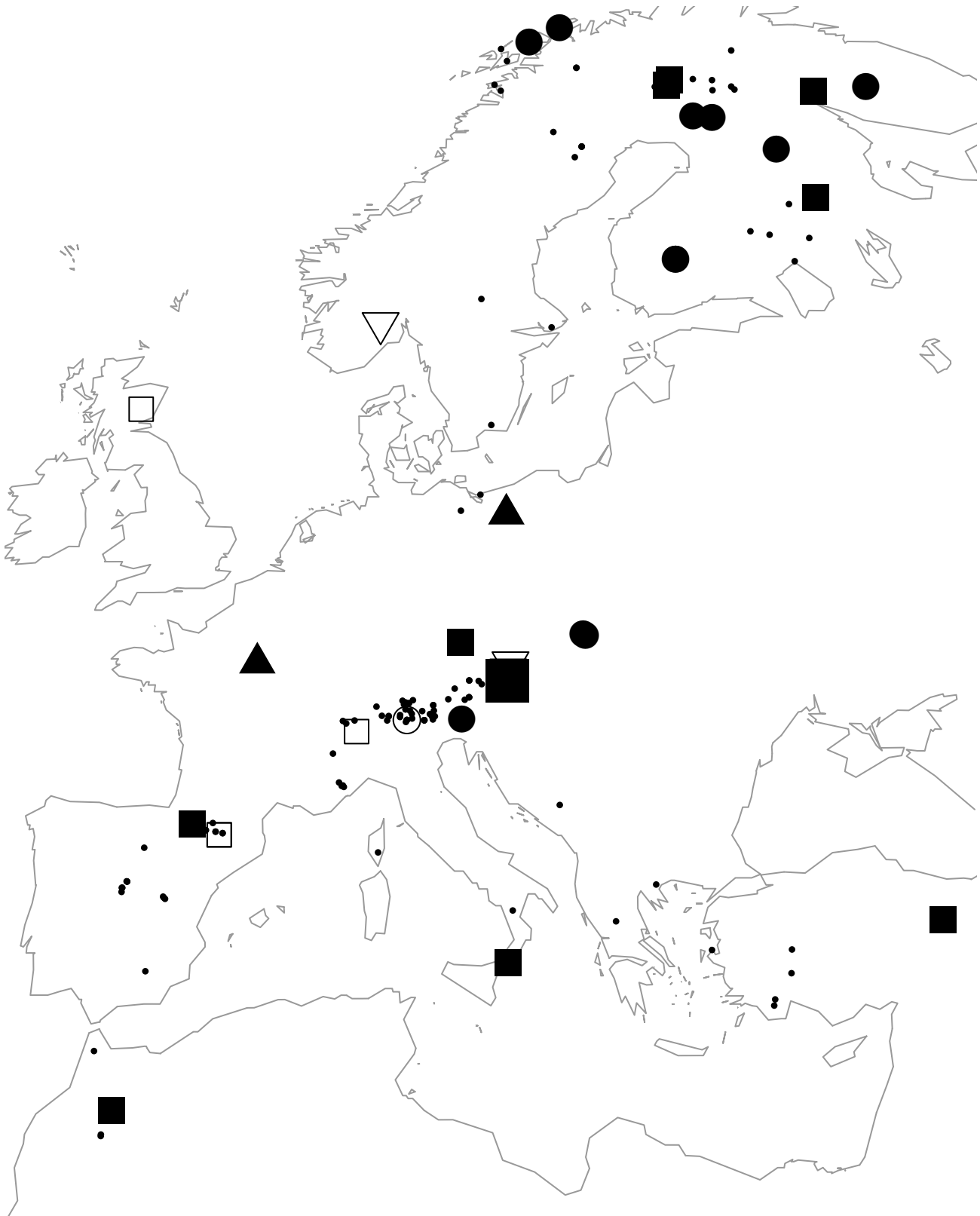
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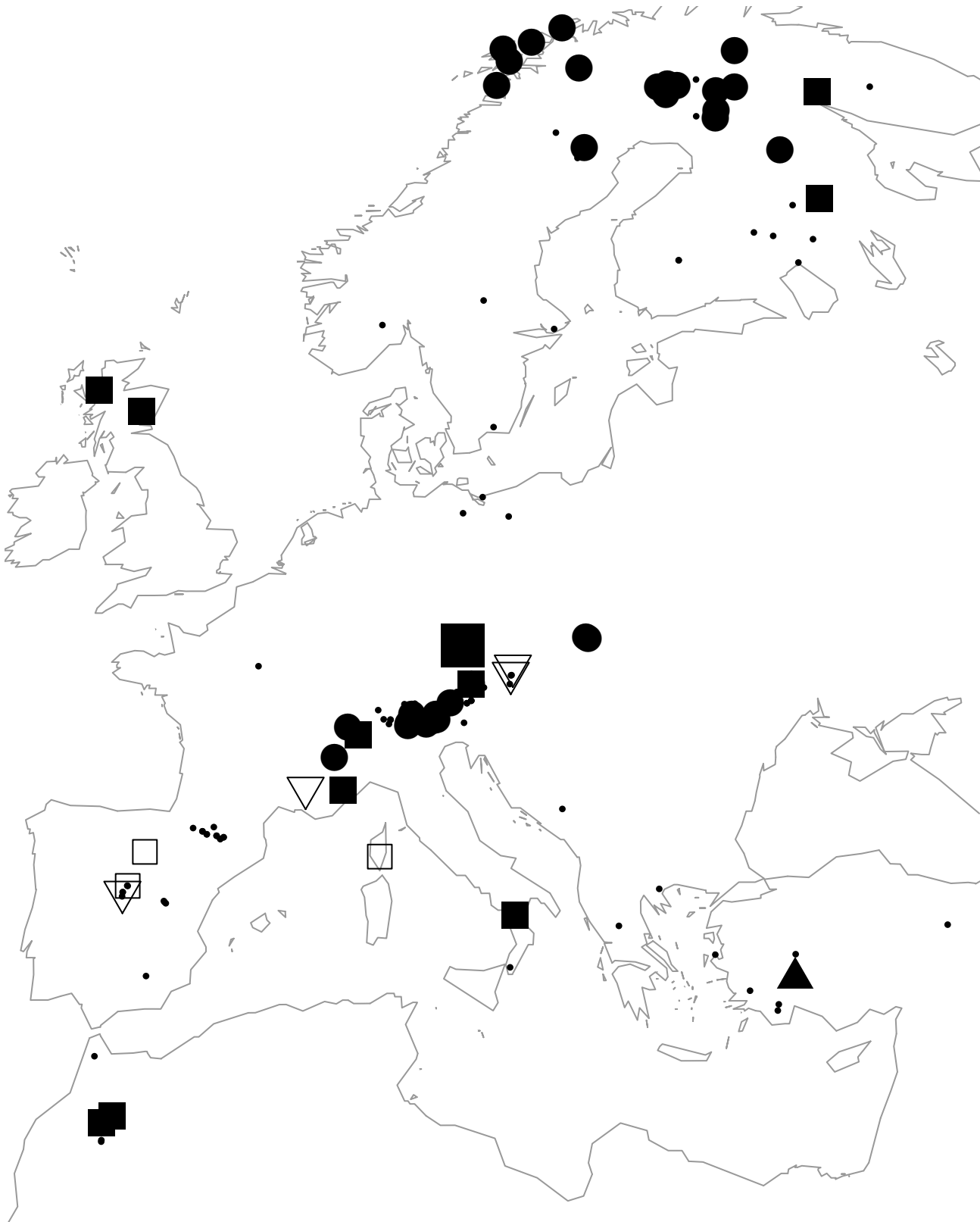
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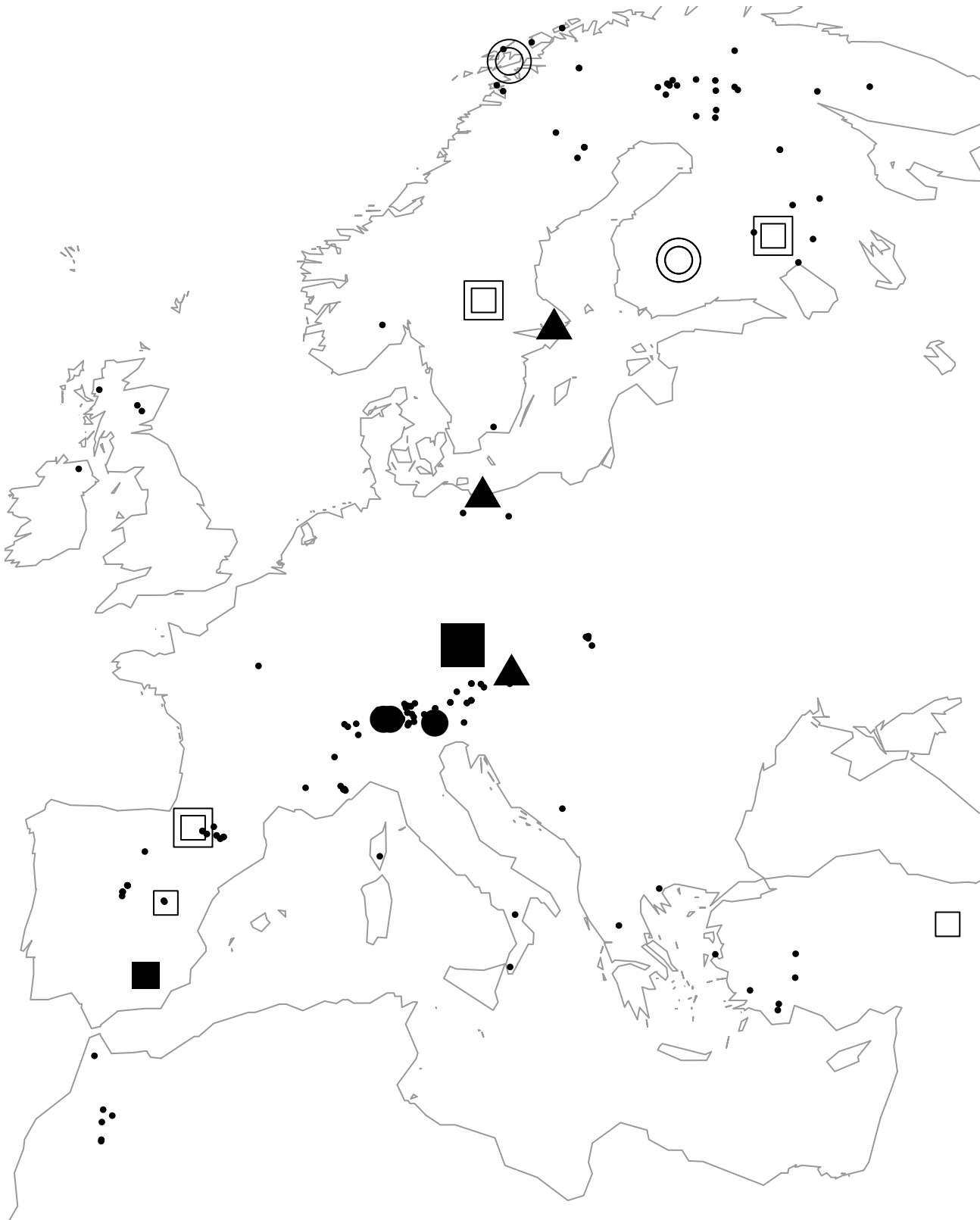
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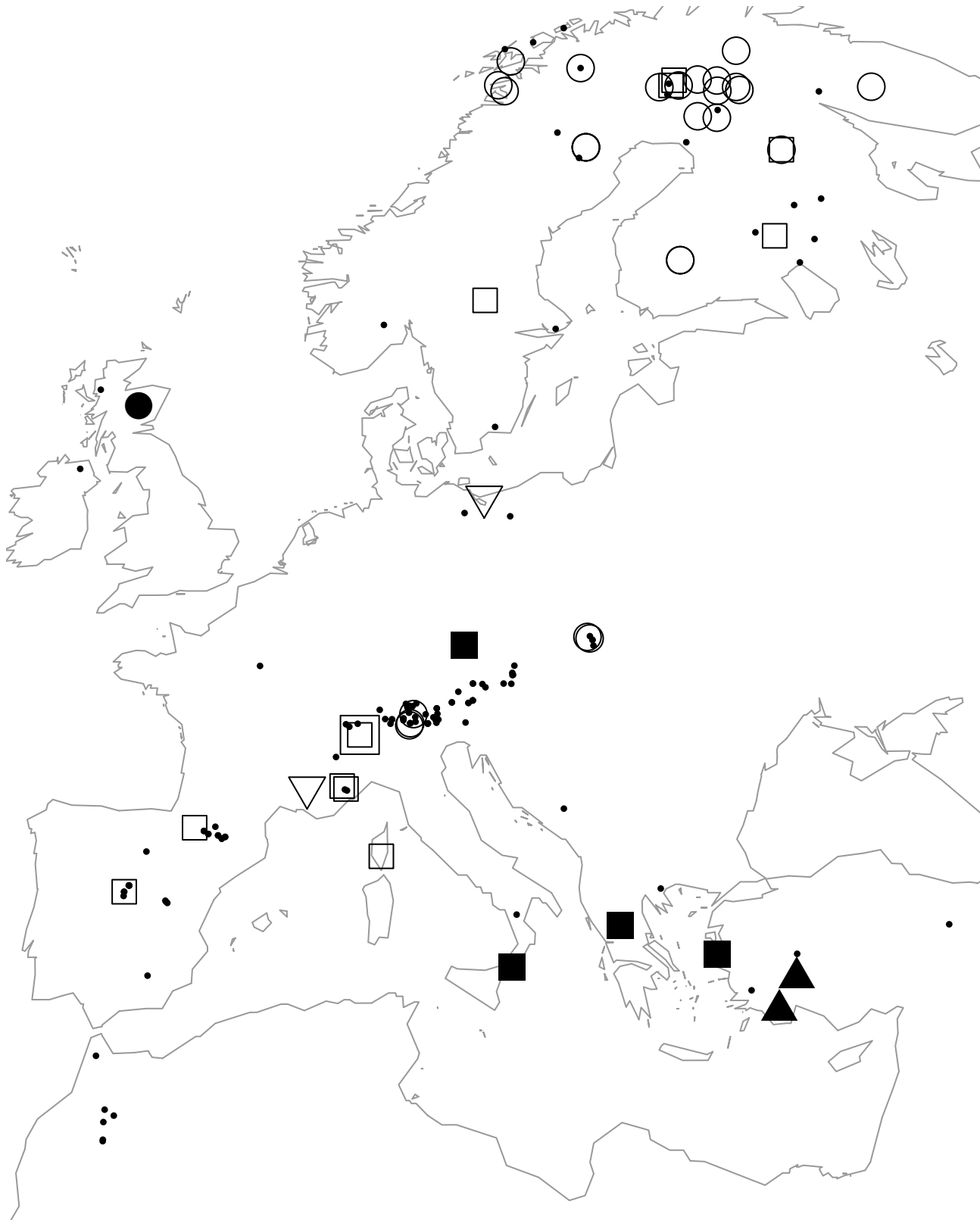
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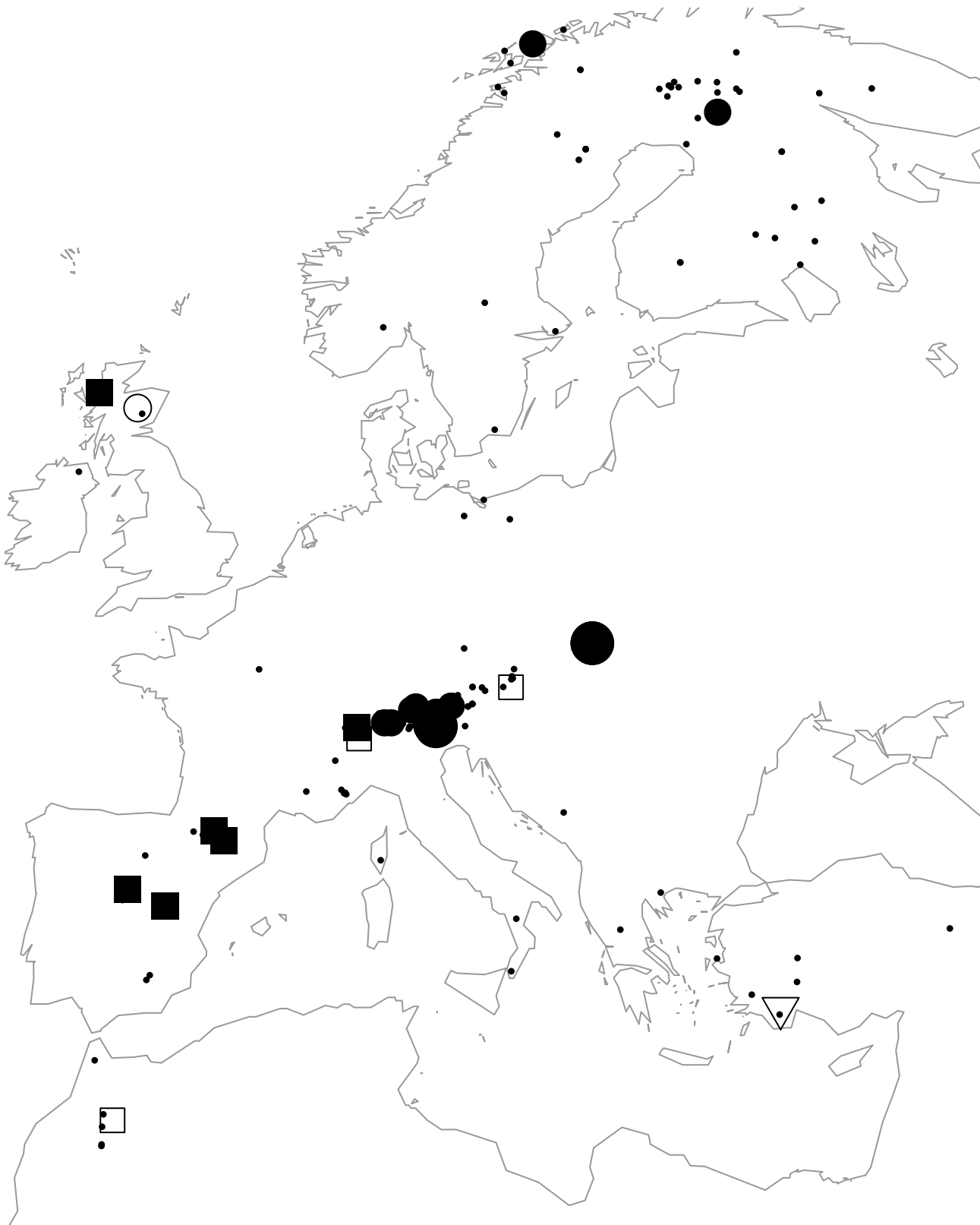
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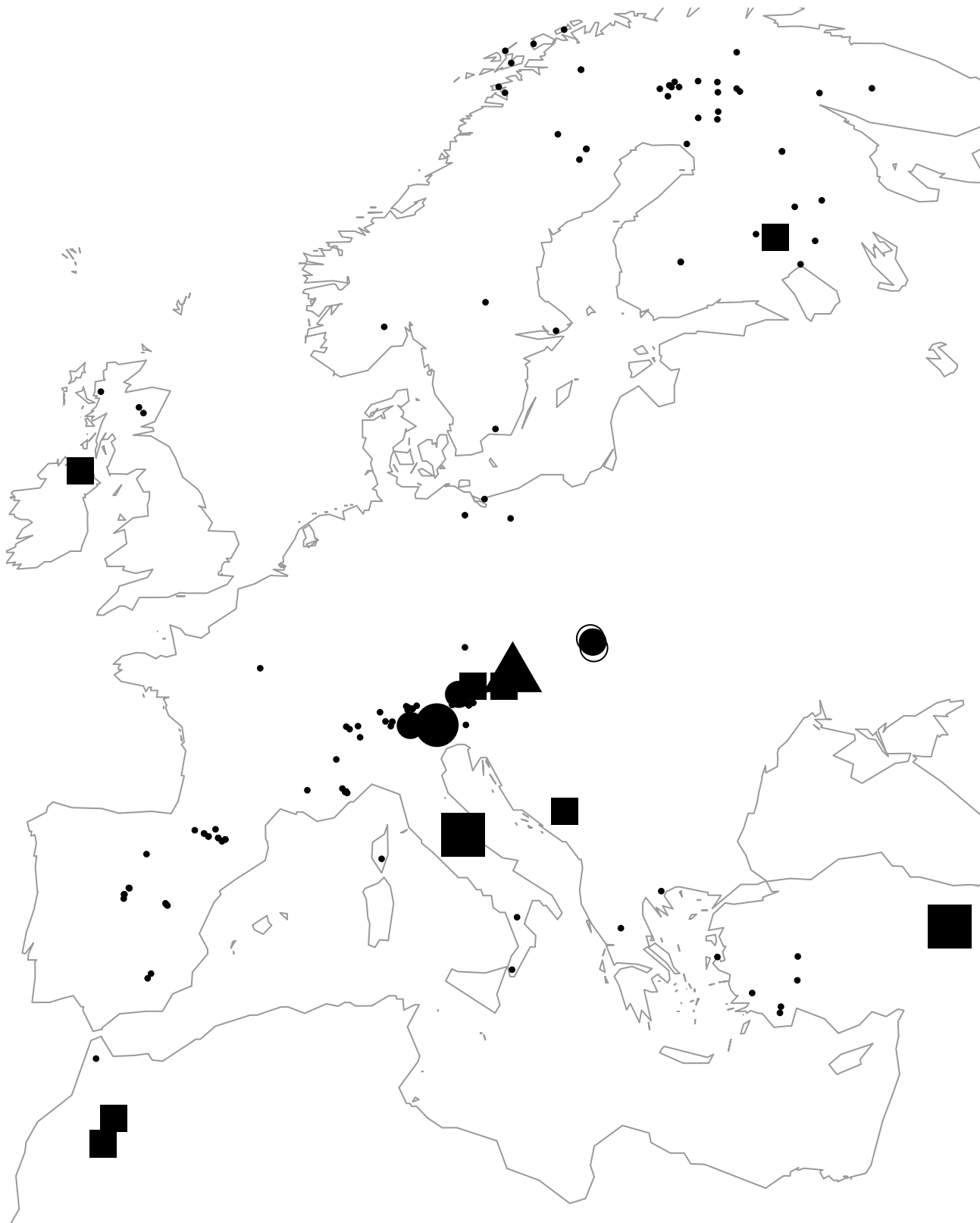
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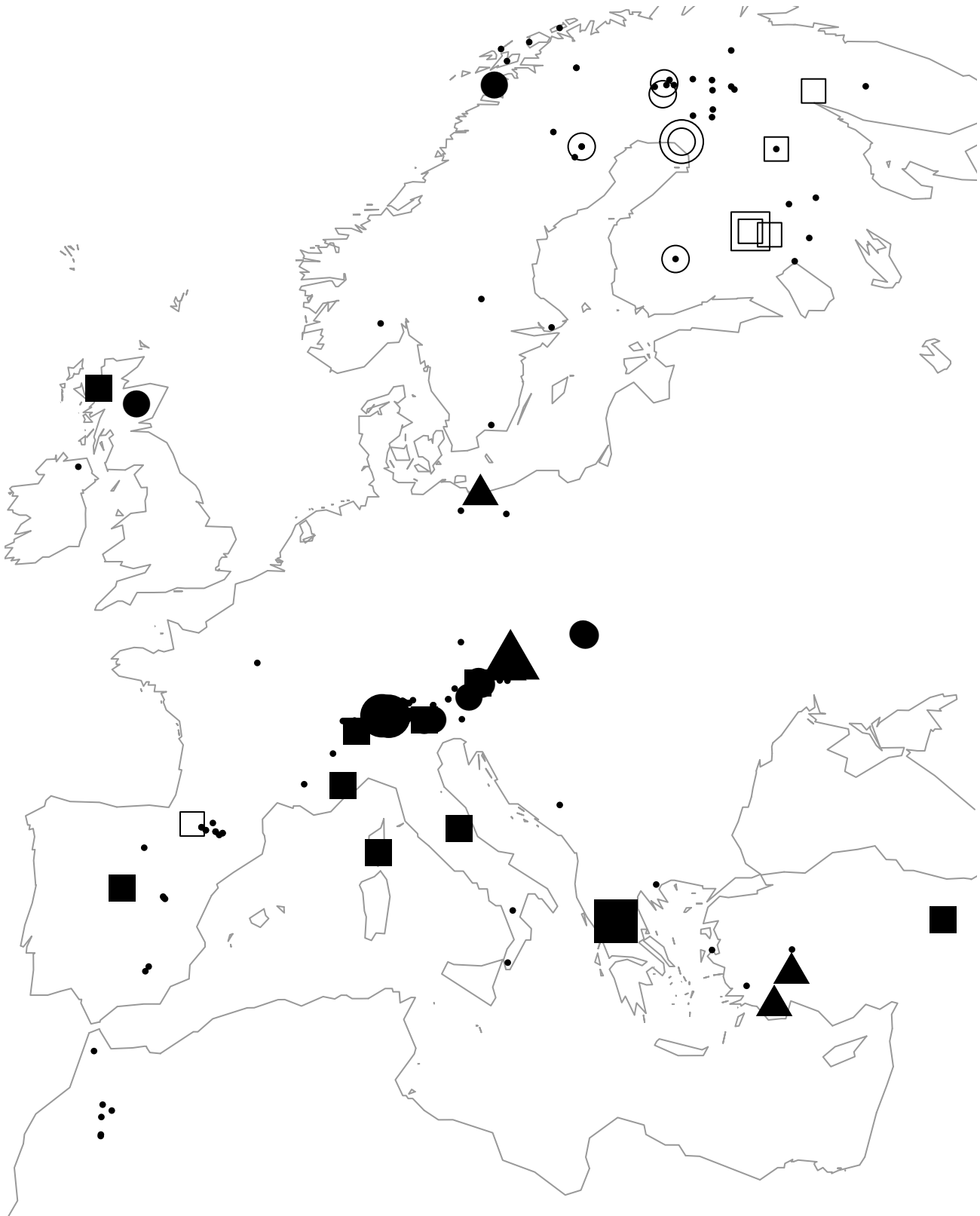
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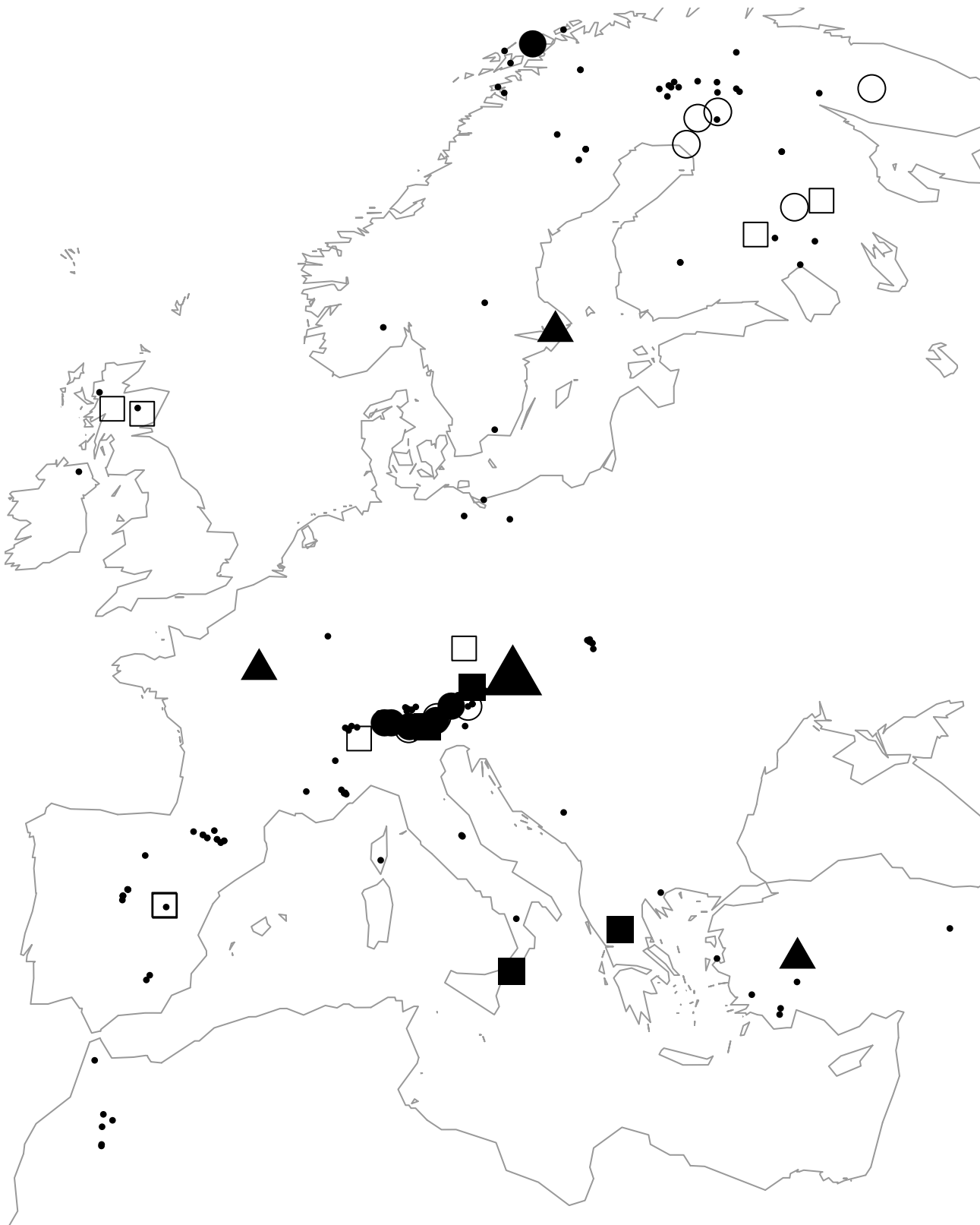
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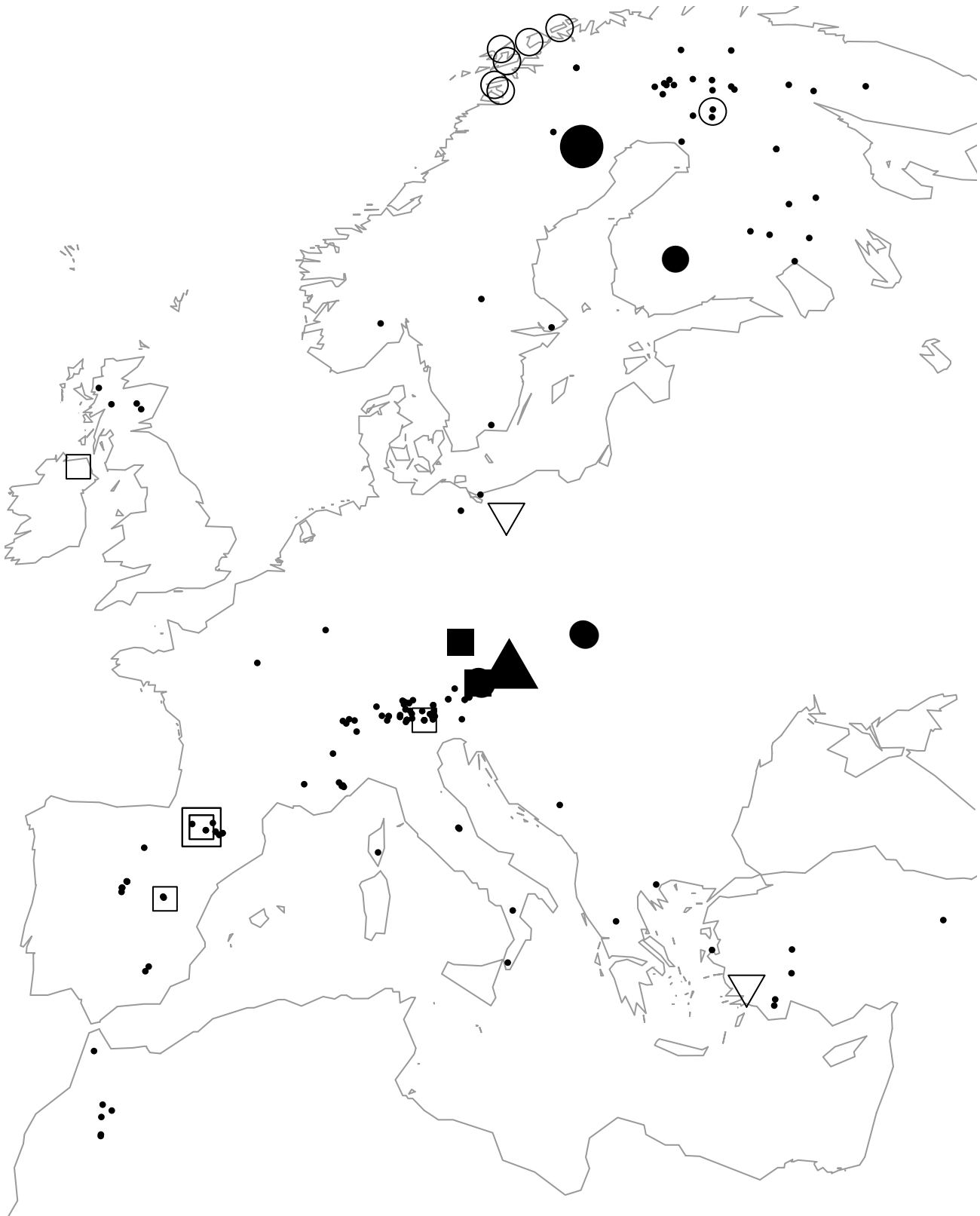
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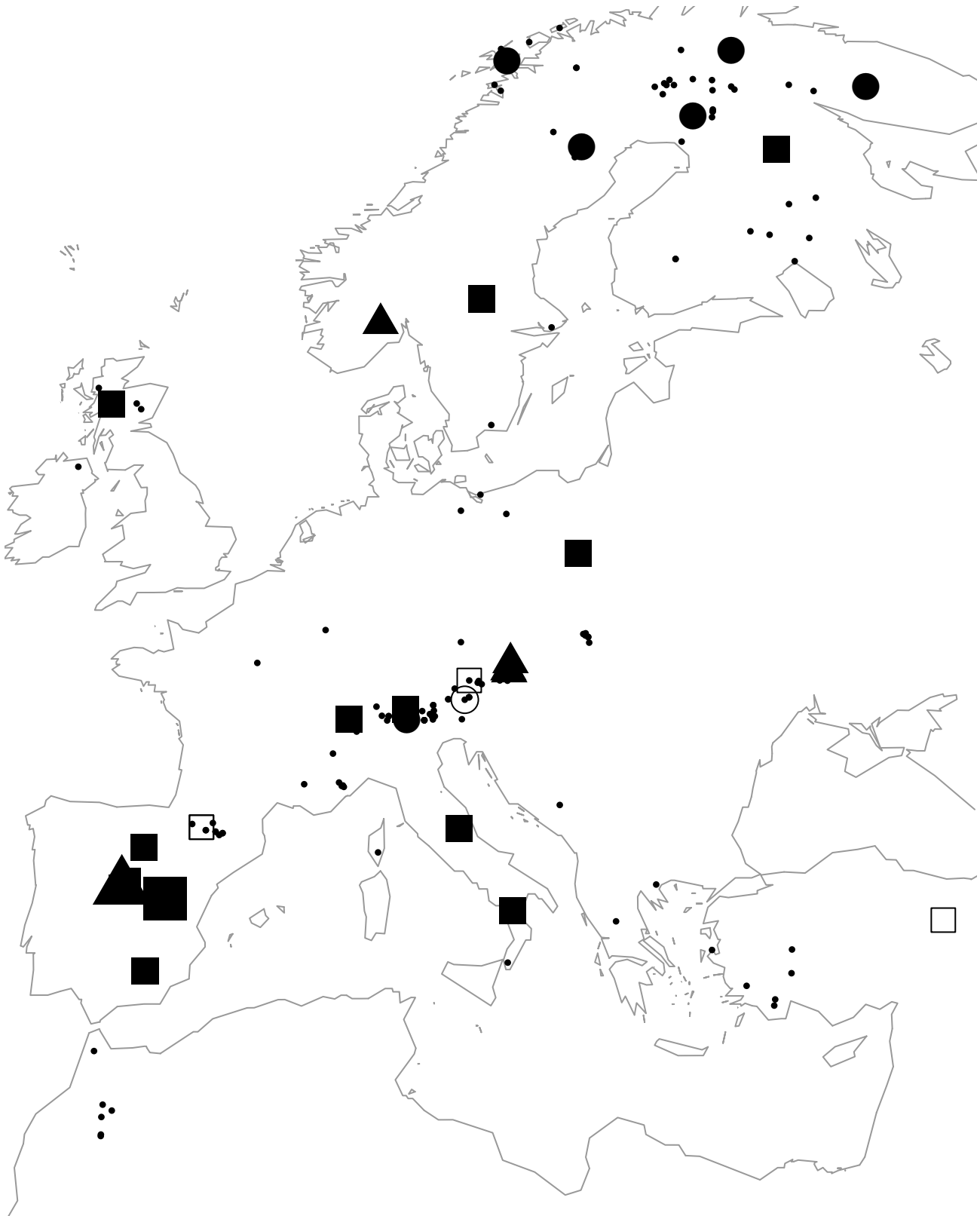
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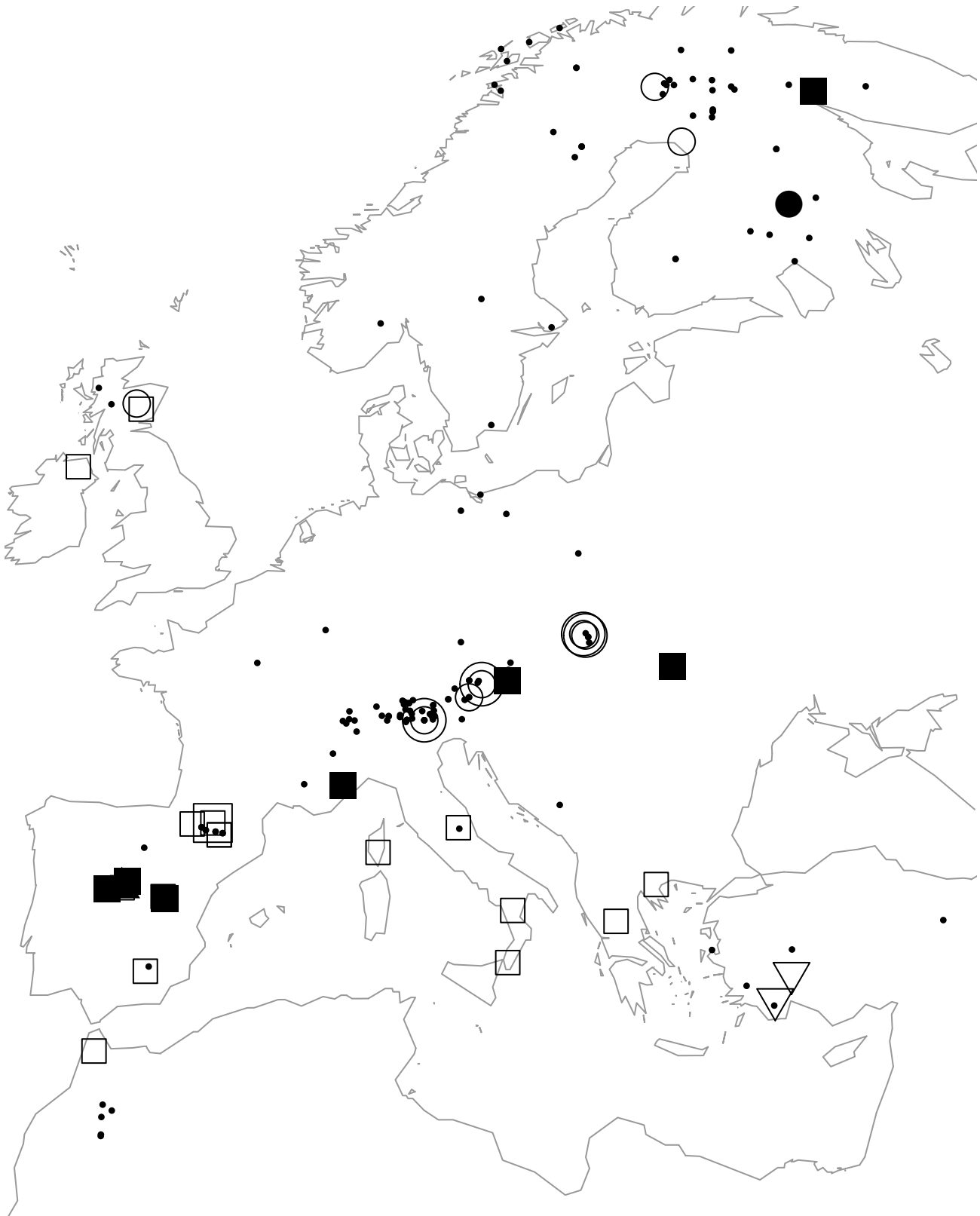
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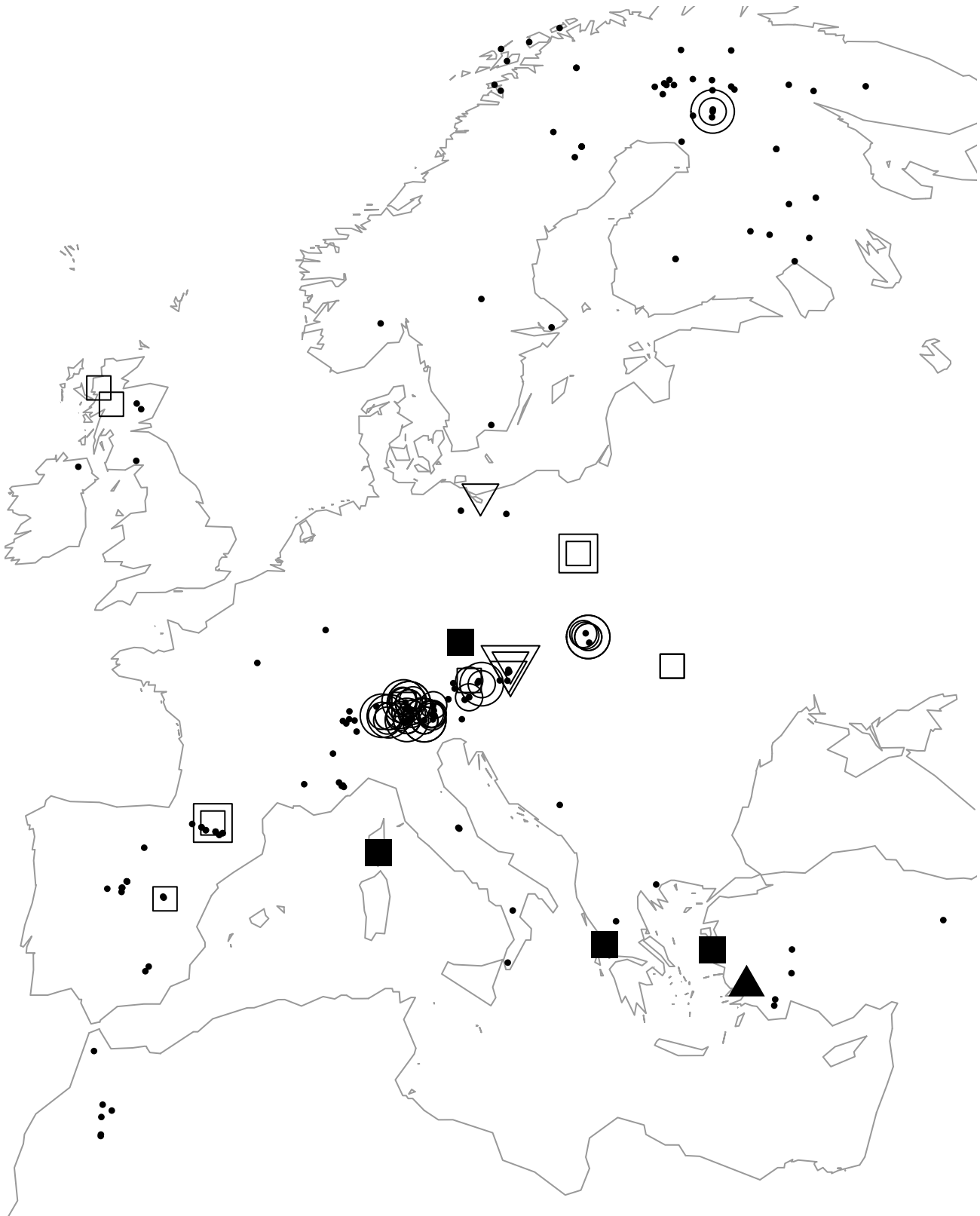
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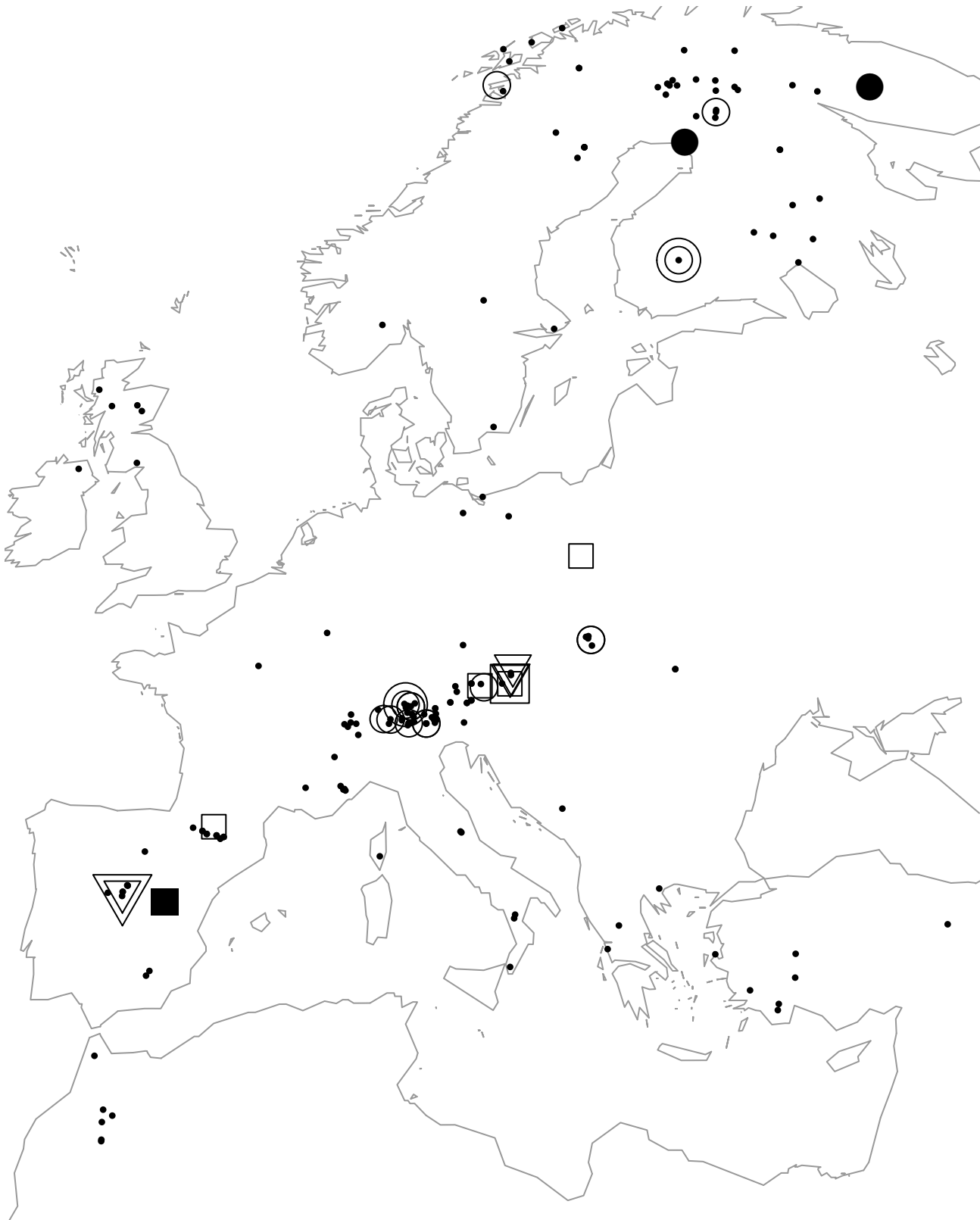
growth anomalies1716



growth anomalies1717



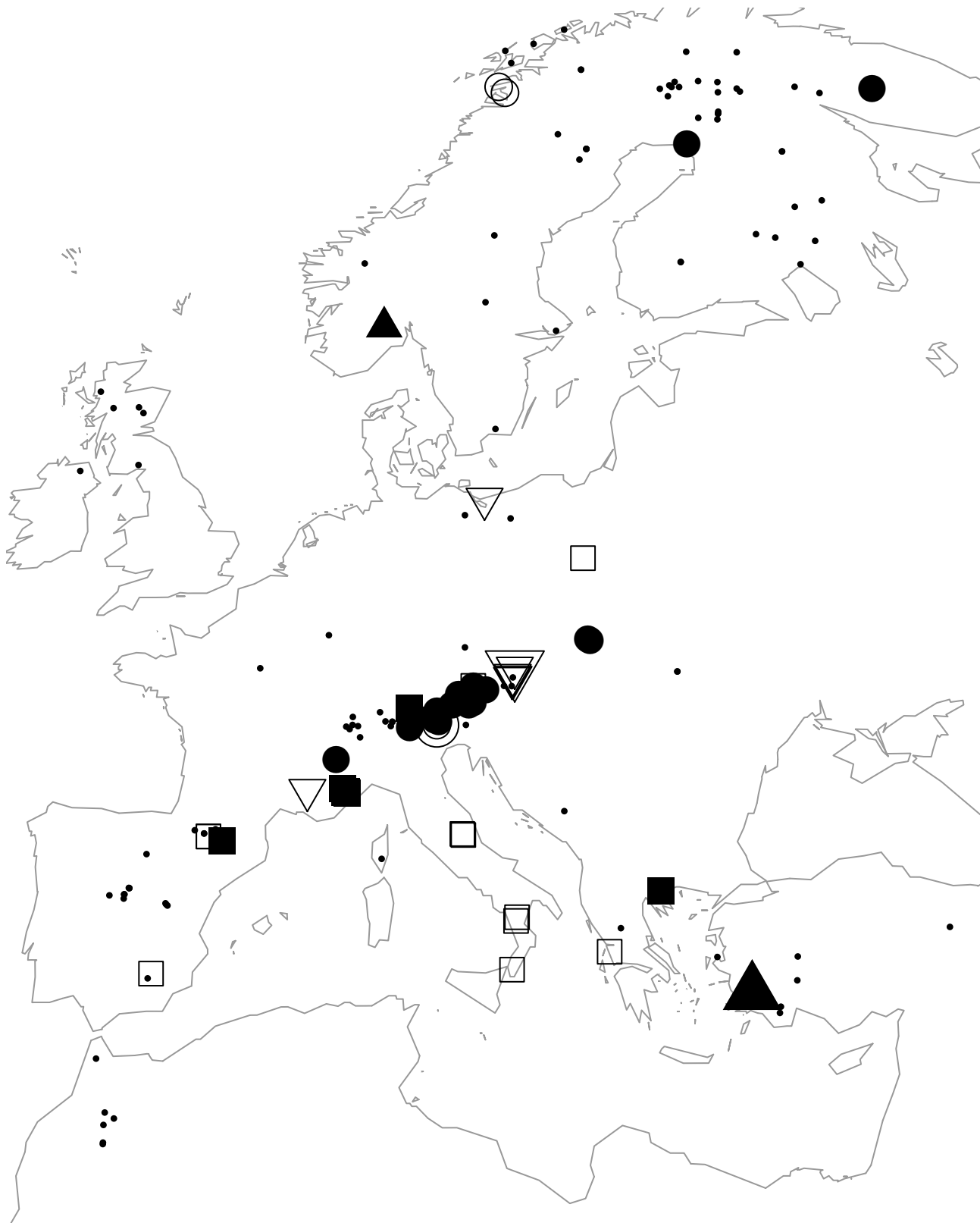
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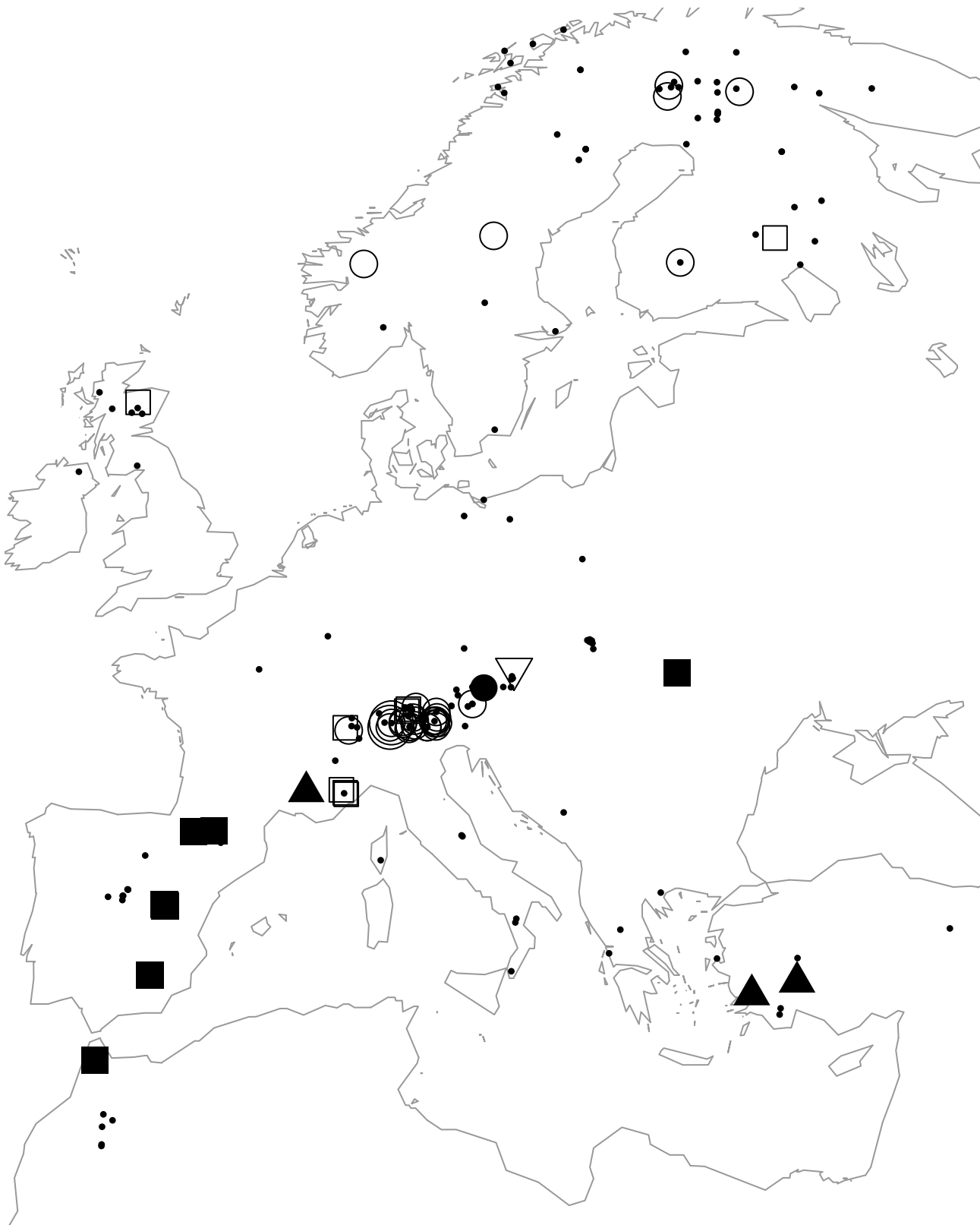
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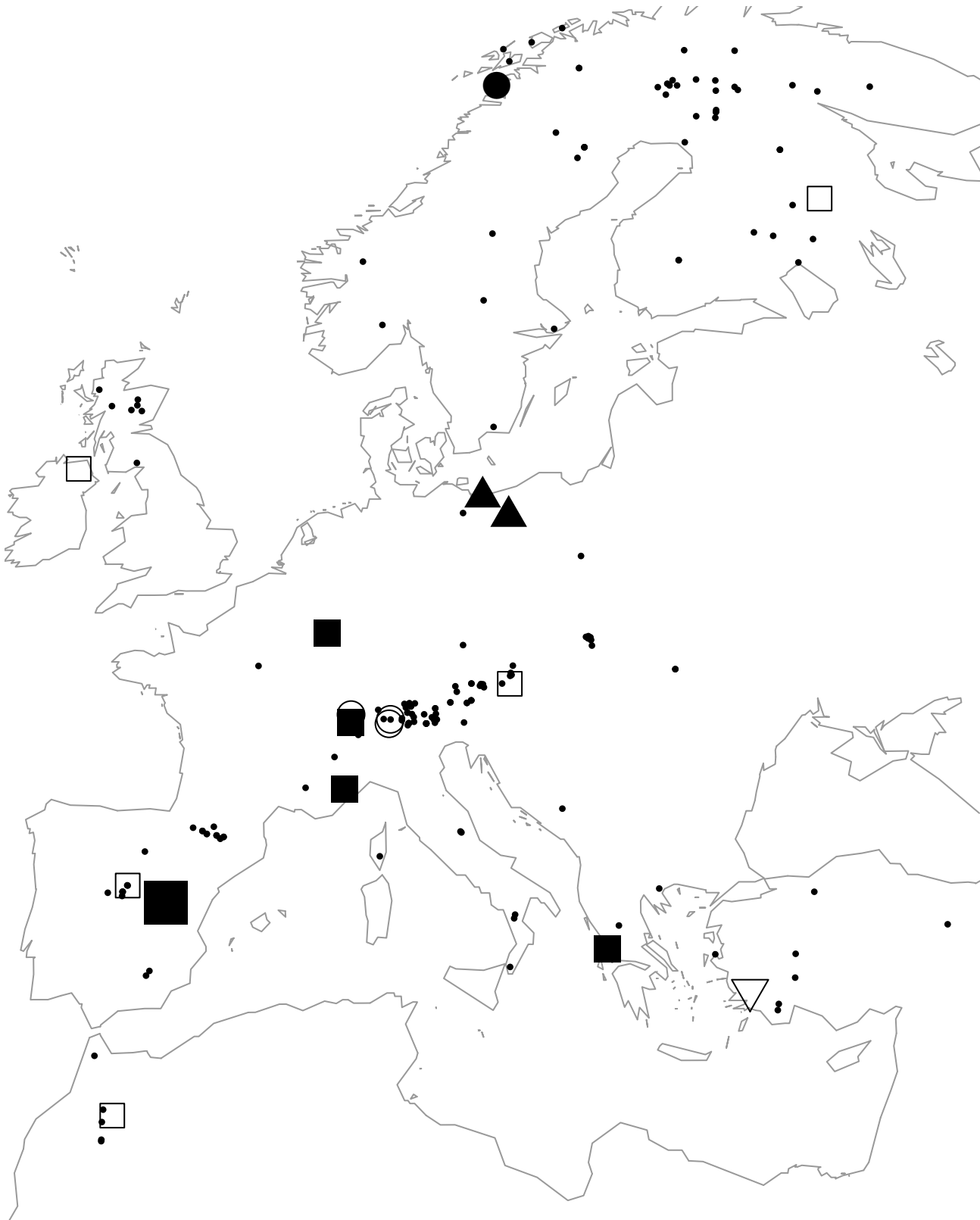
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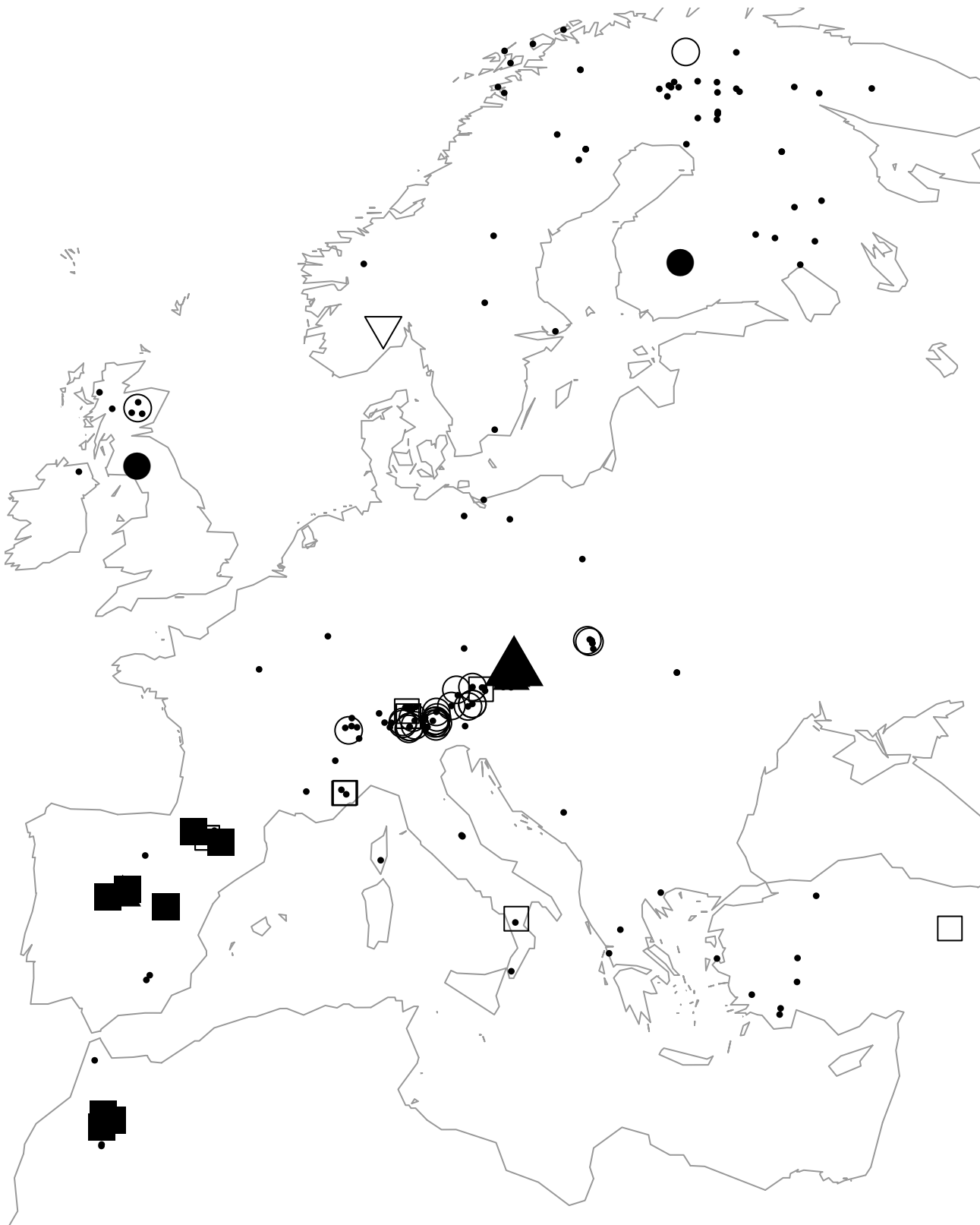
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growth anomalies1722



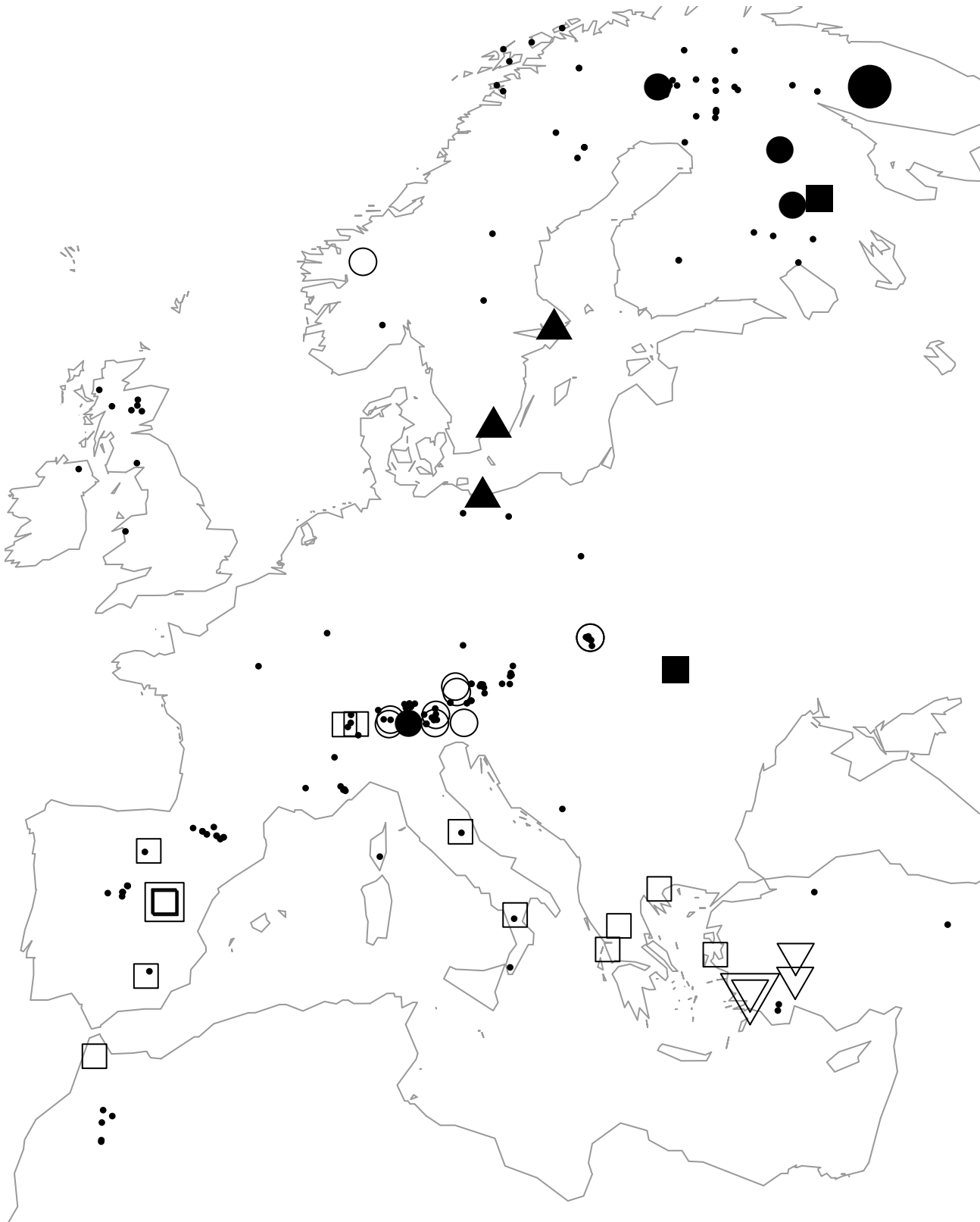
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growth anomalies1724



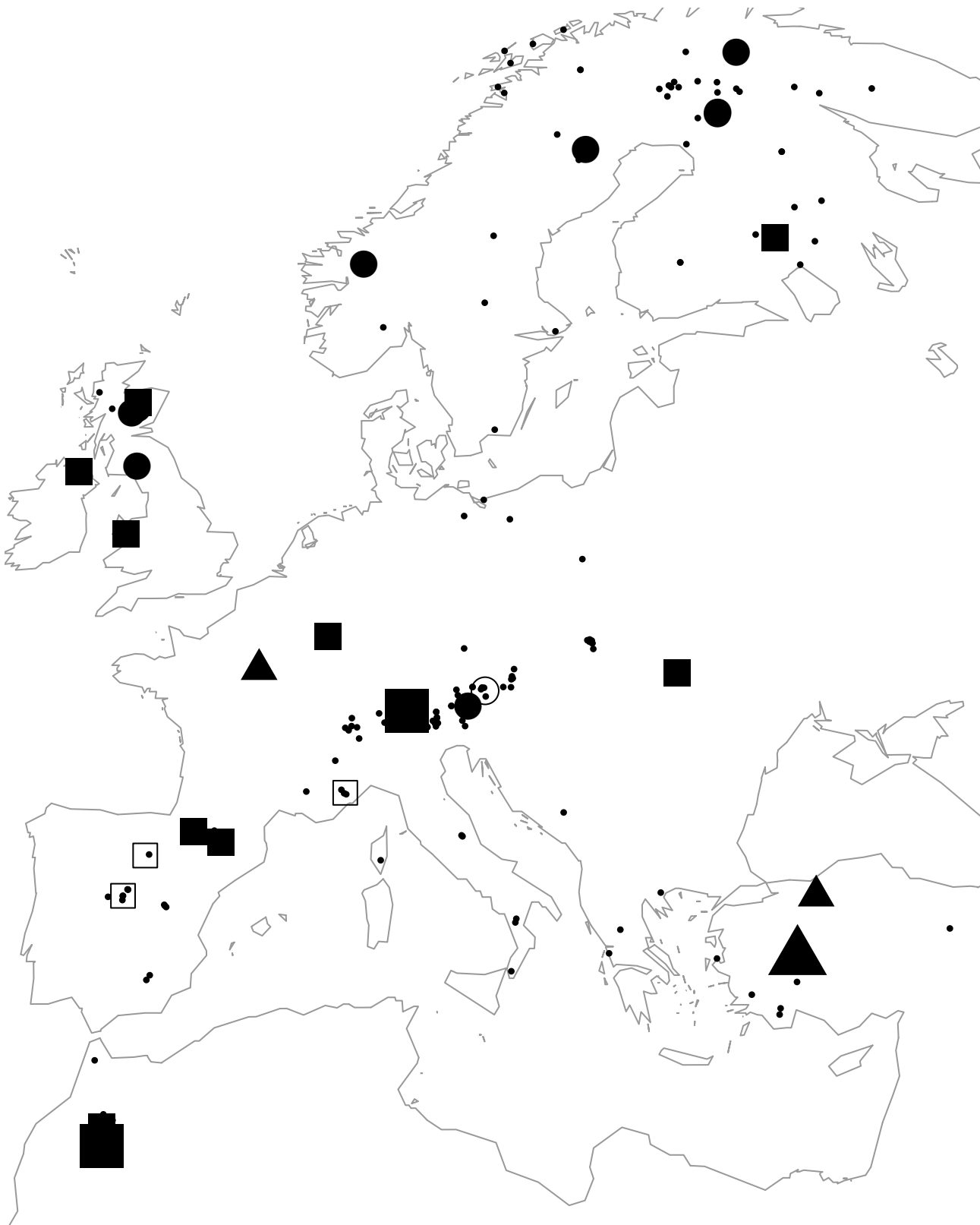
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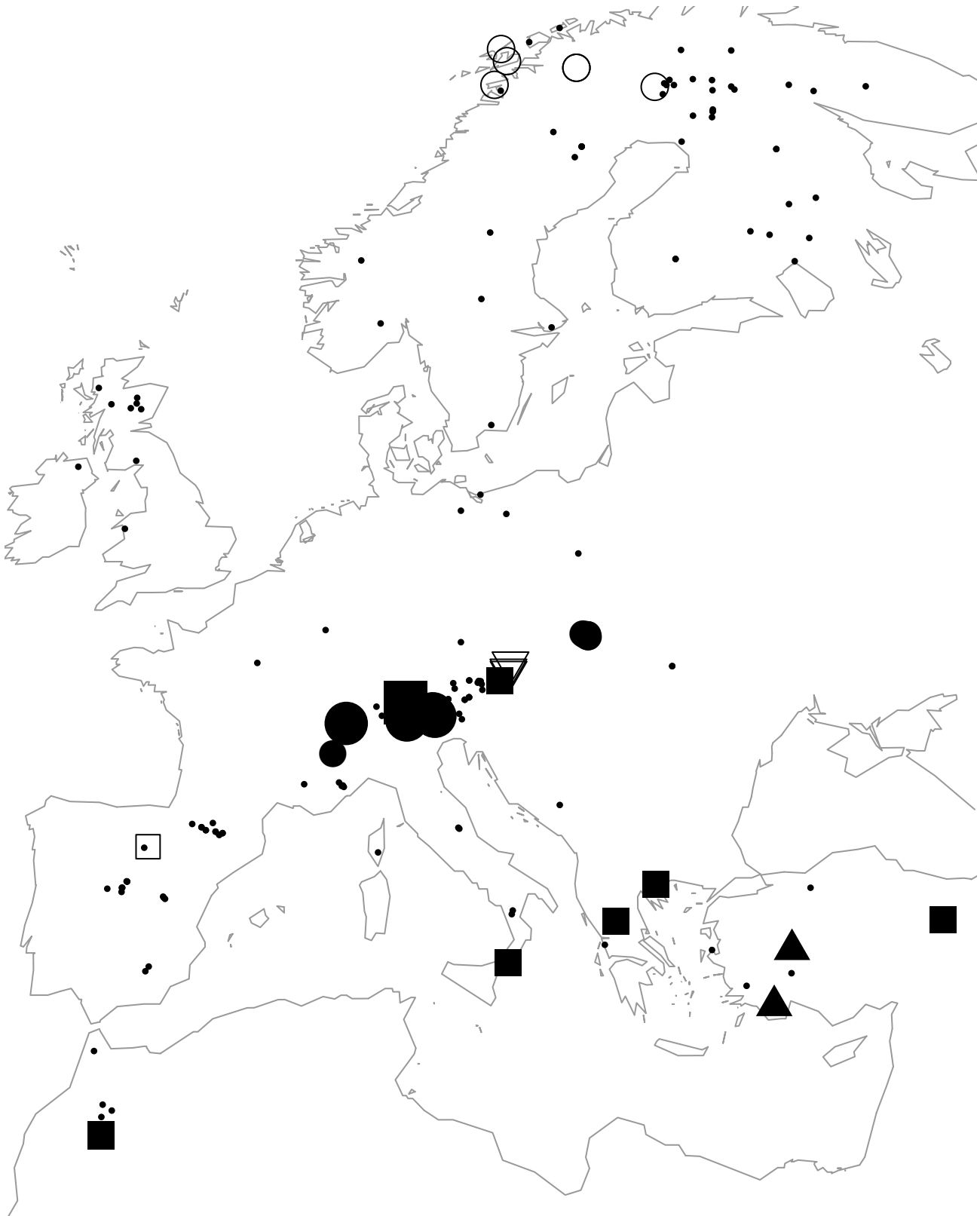
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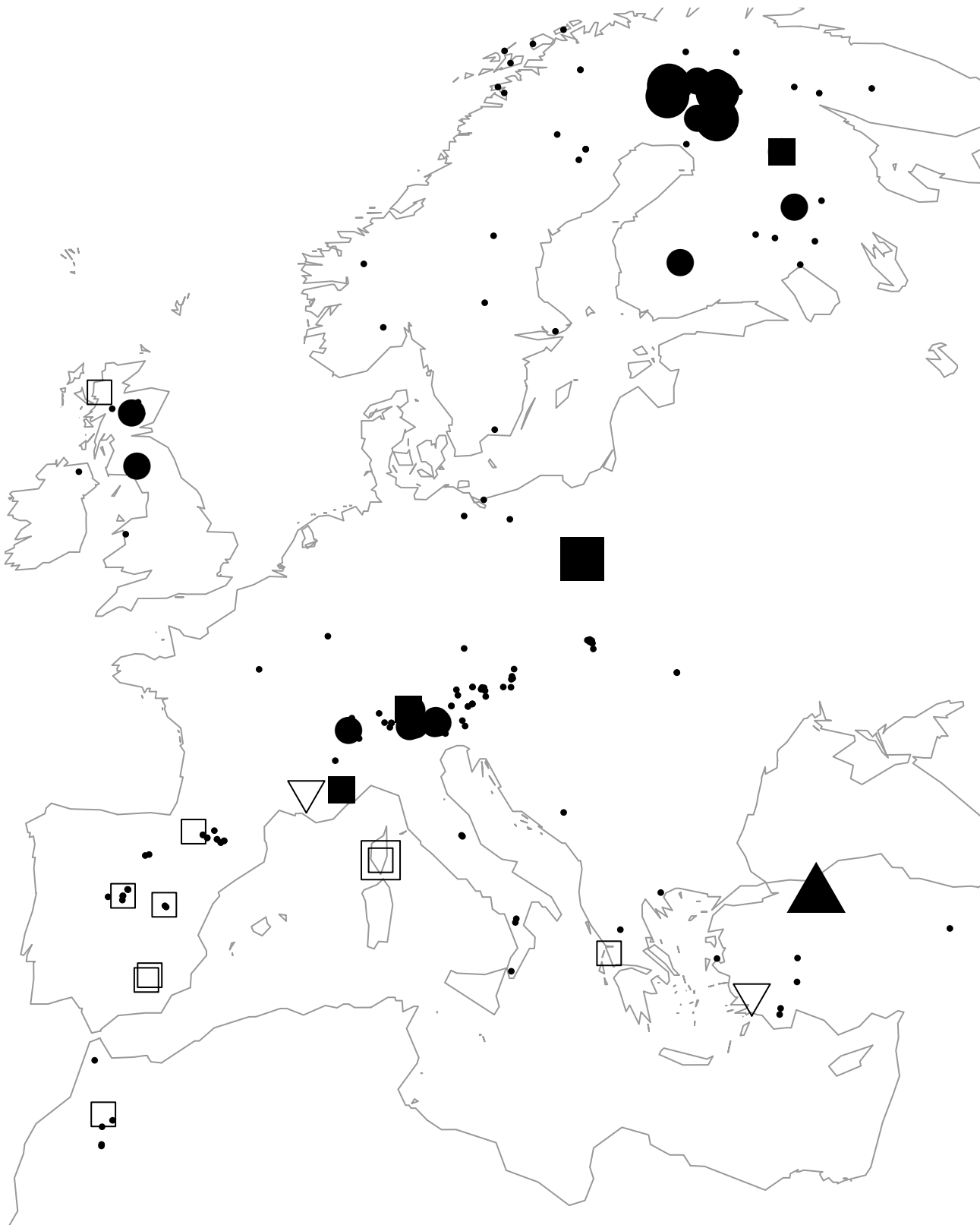
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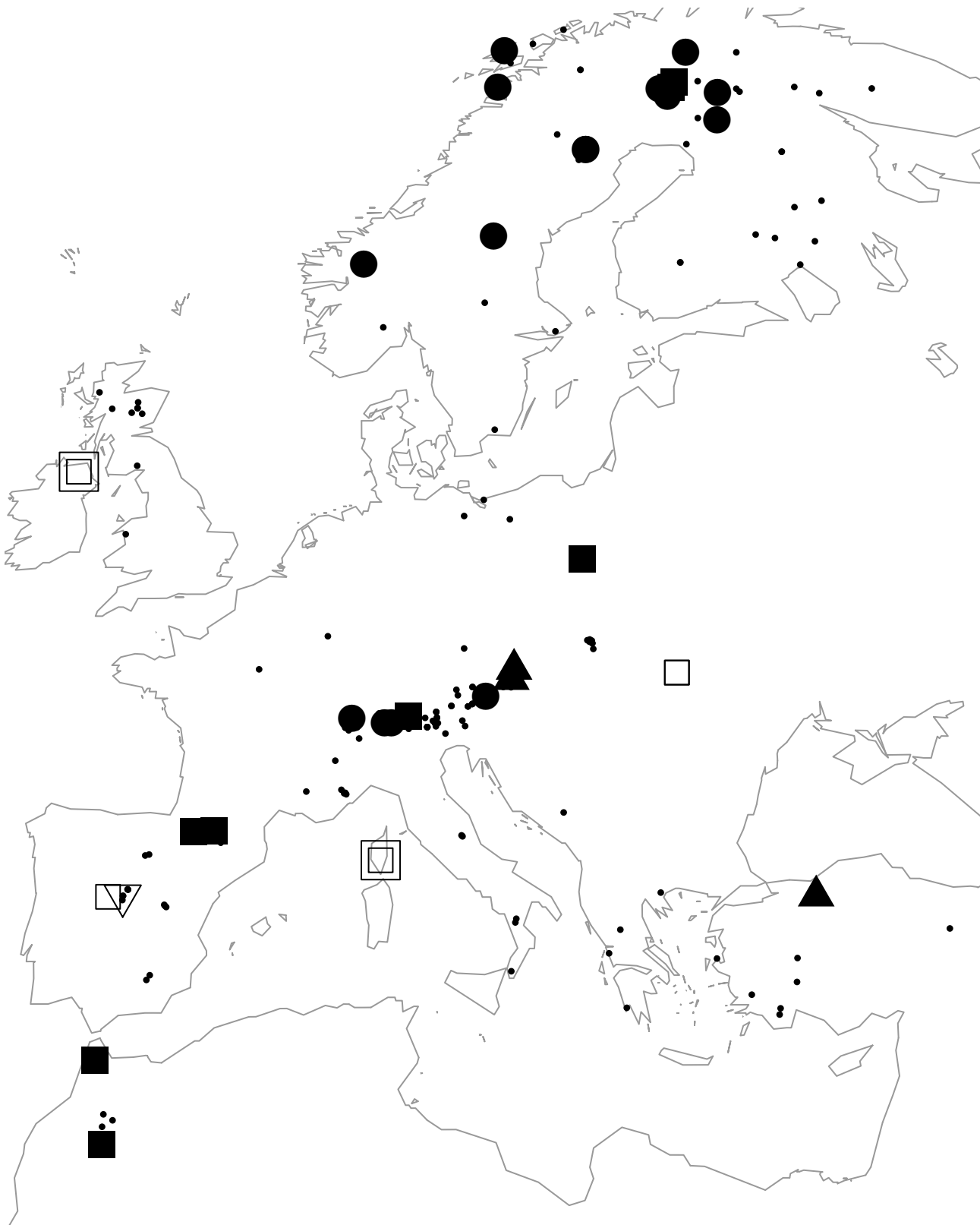
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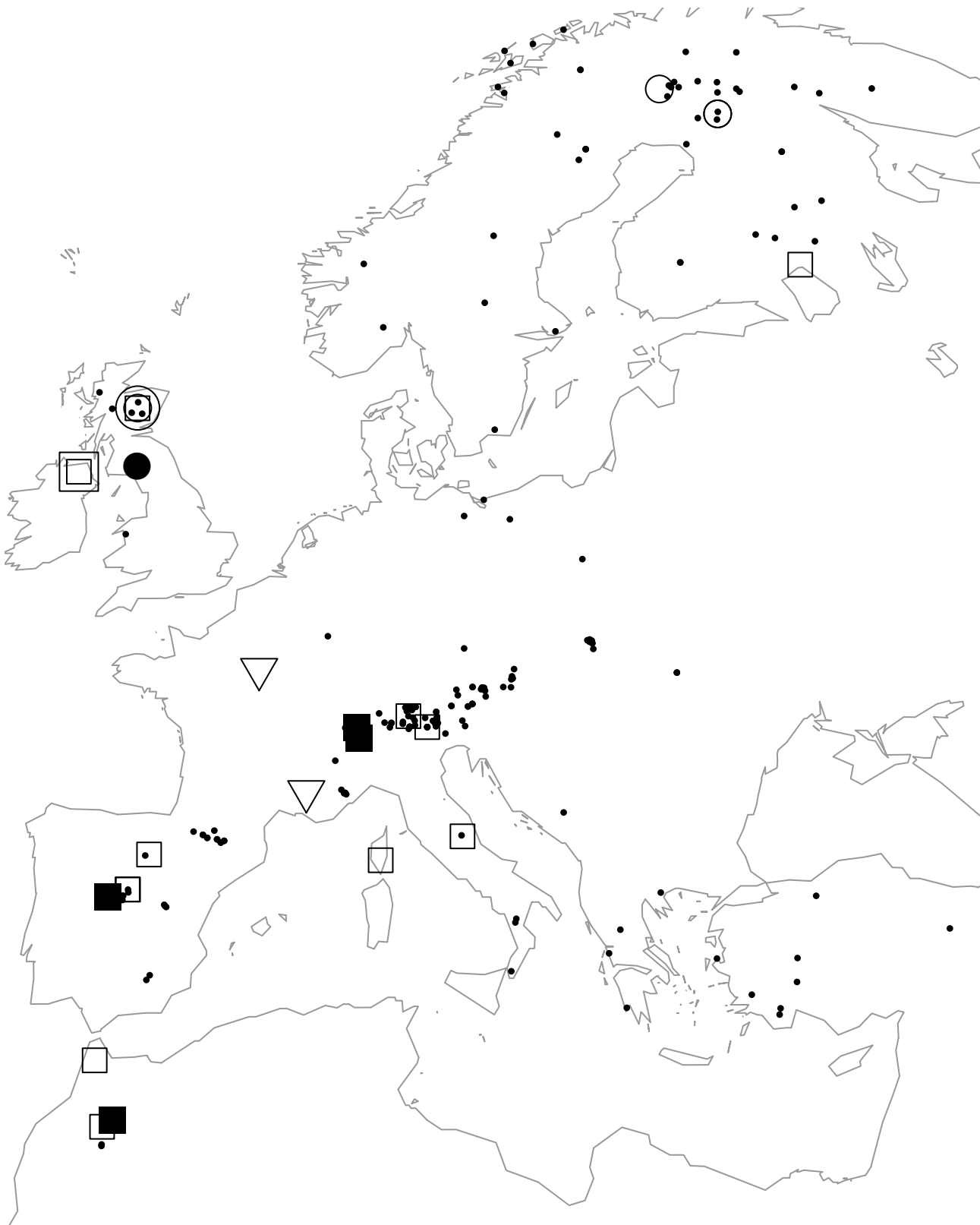
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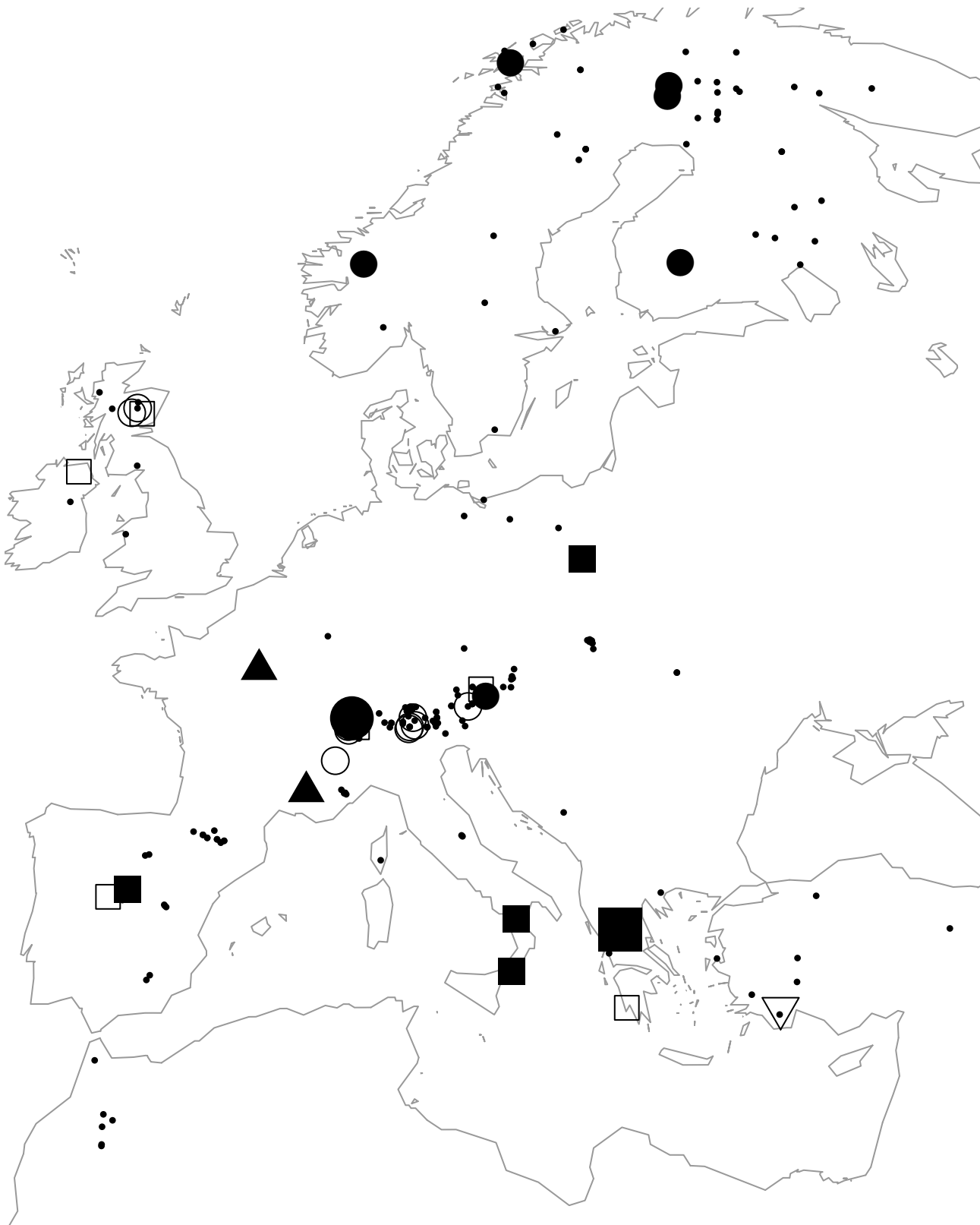
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growth anomalies1731



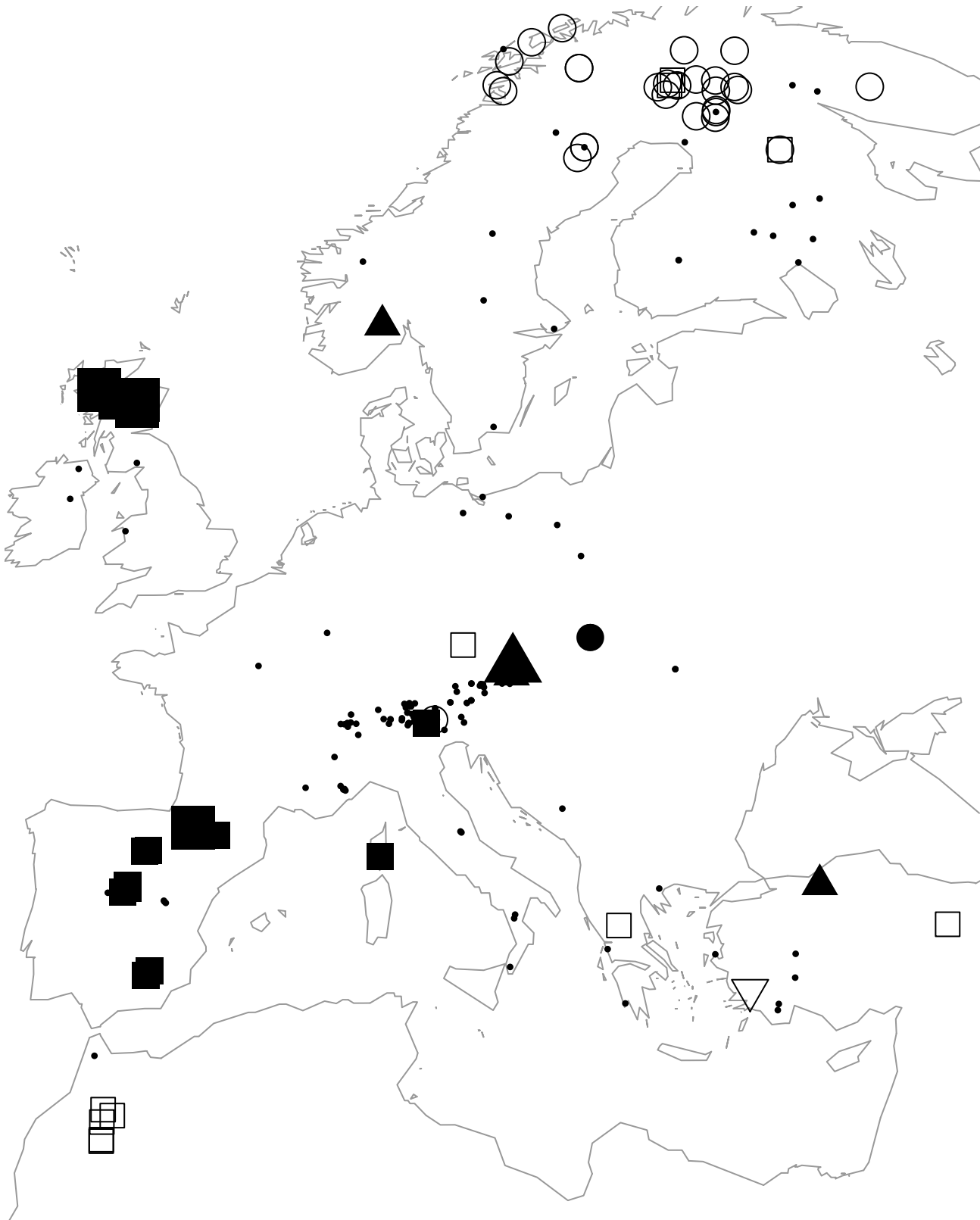
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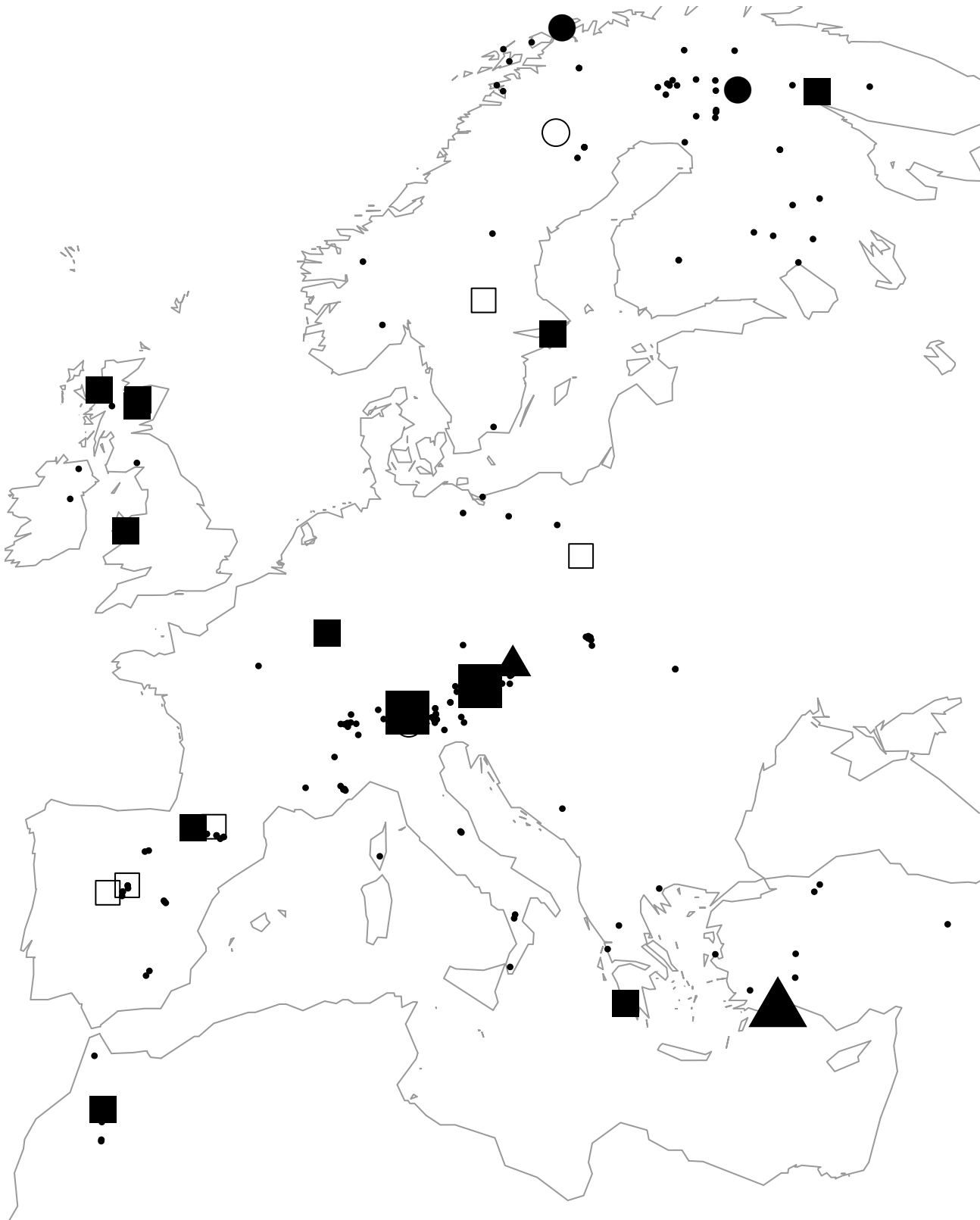
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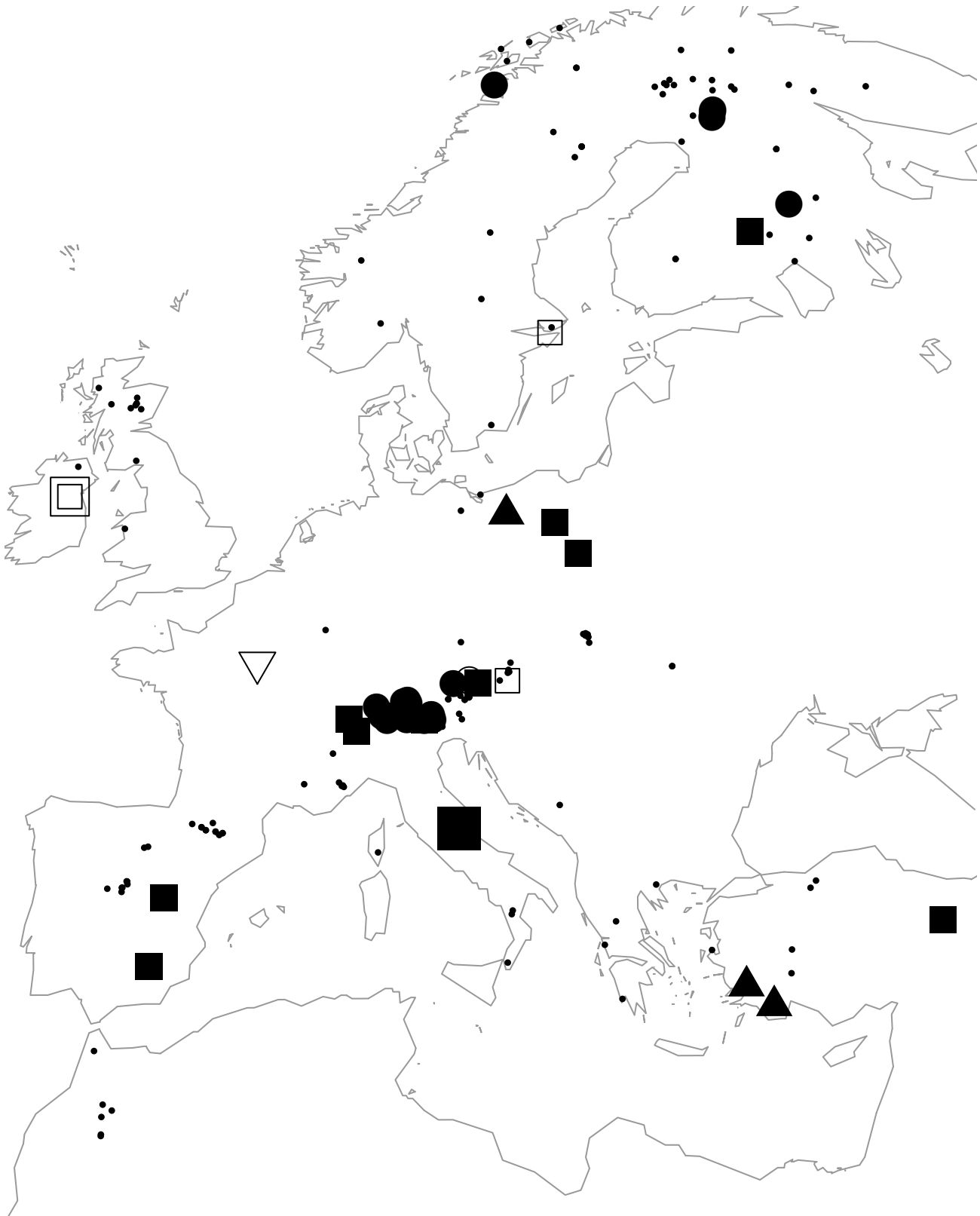
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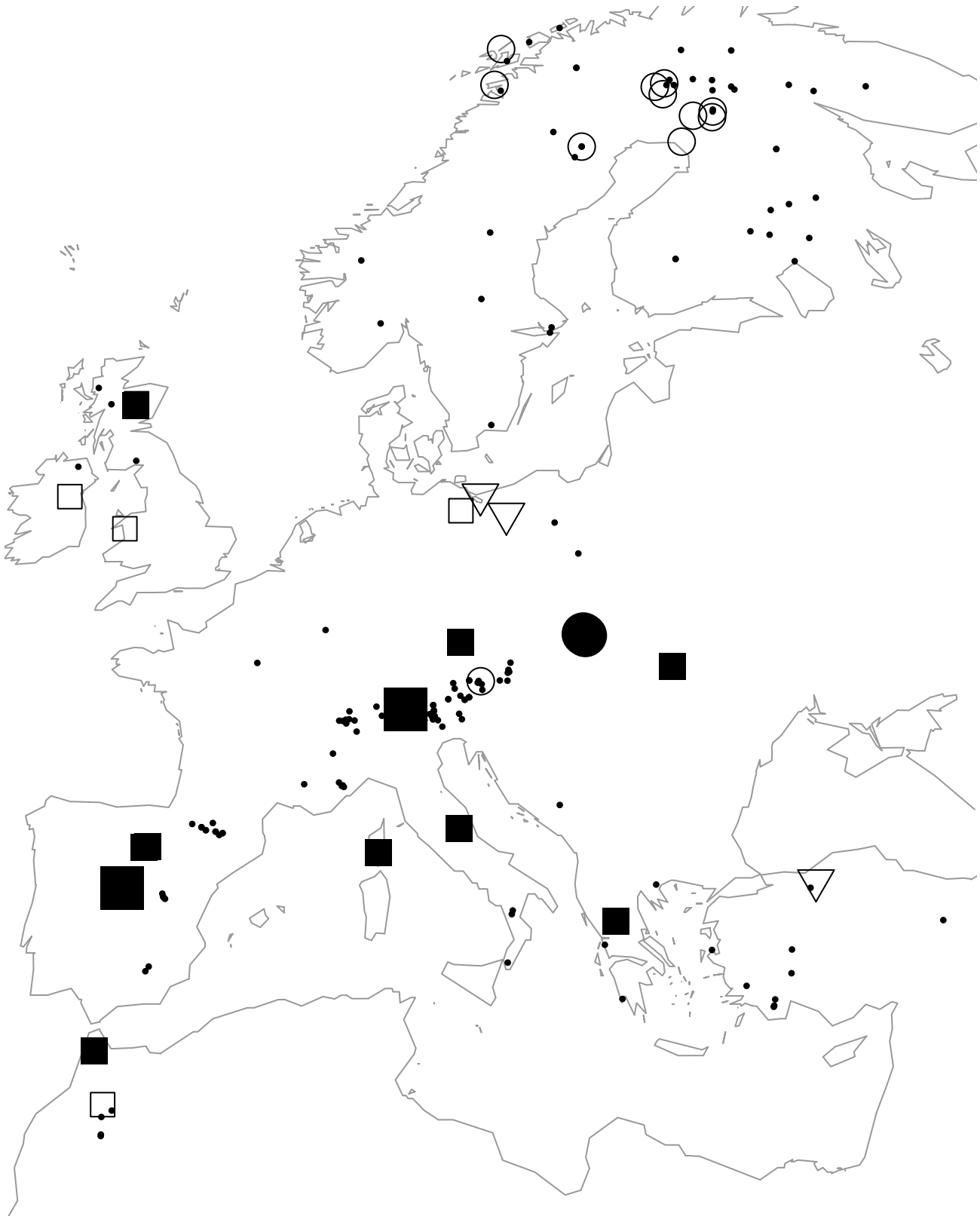
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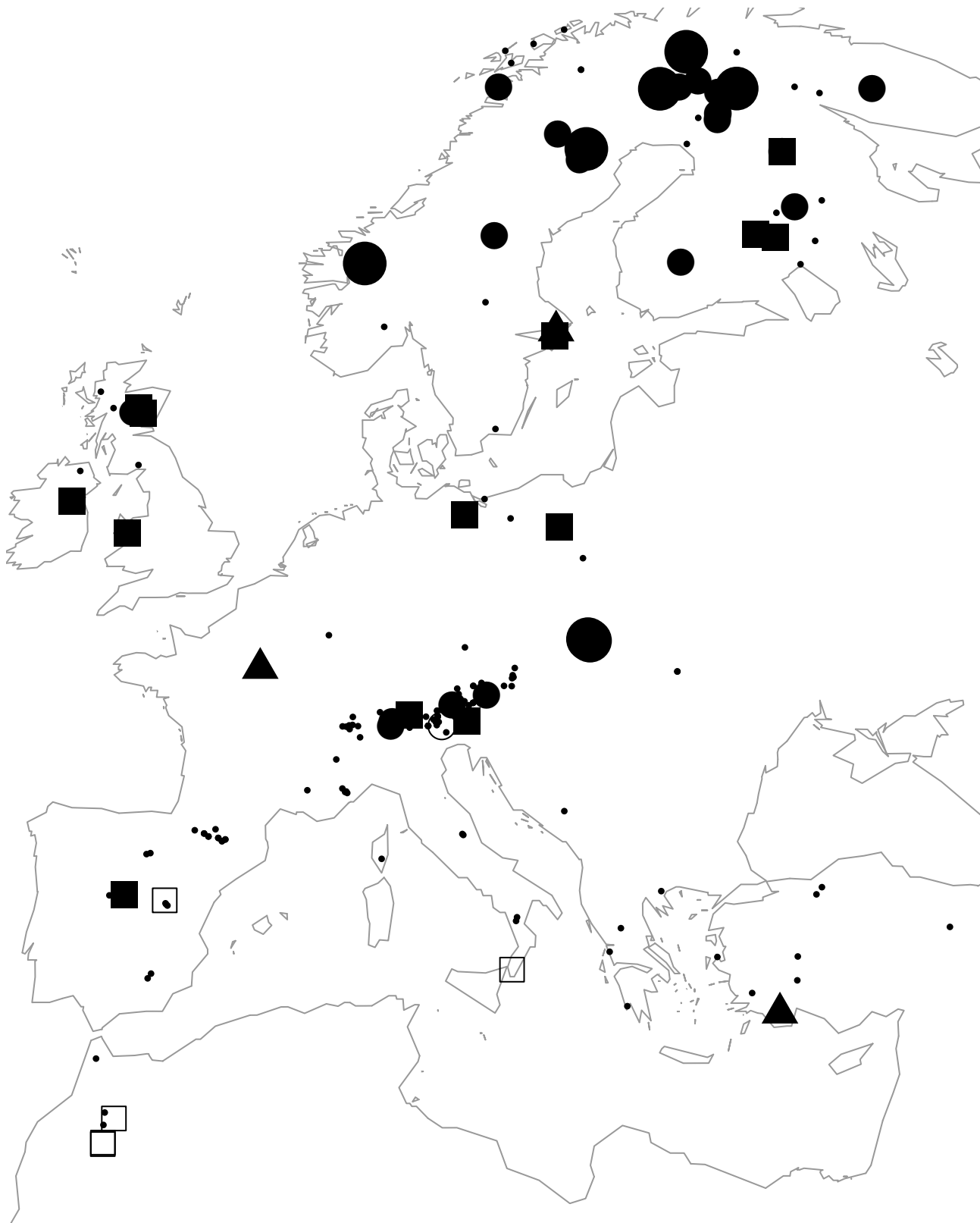
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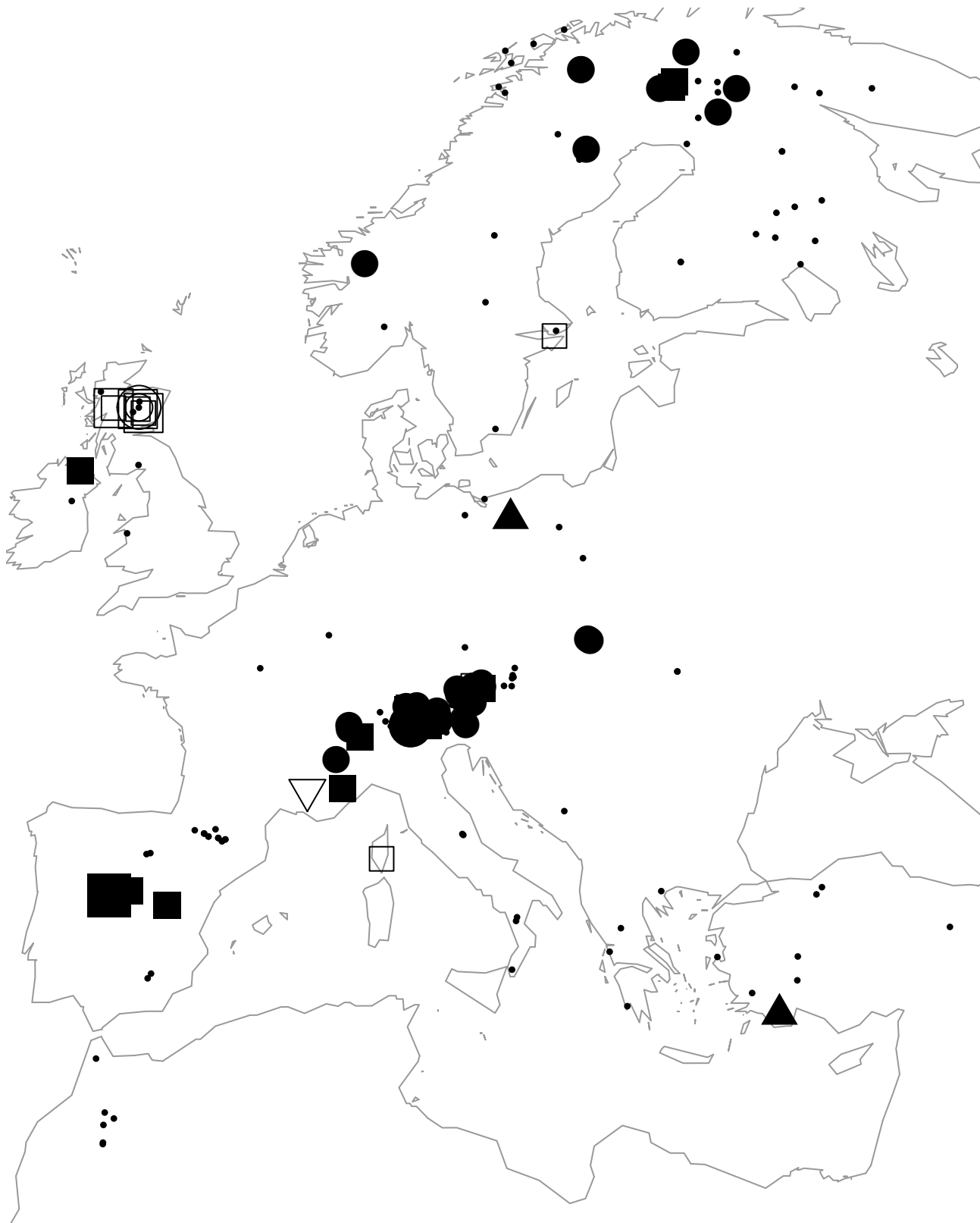
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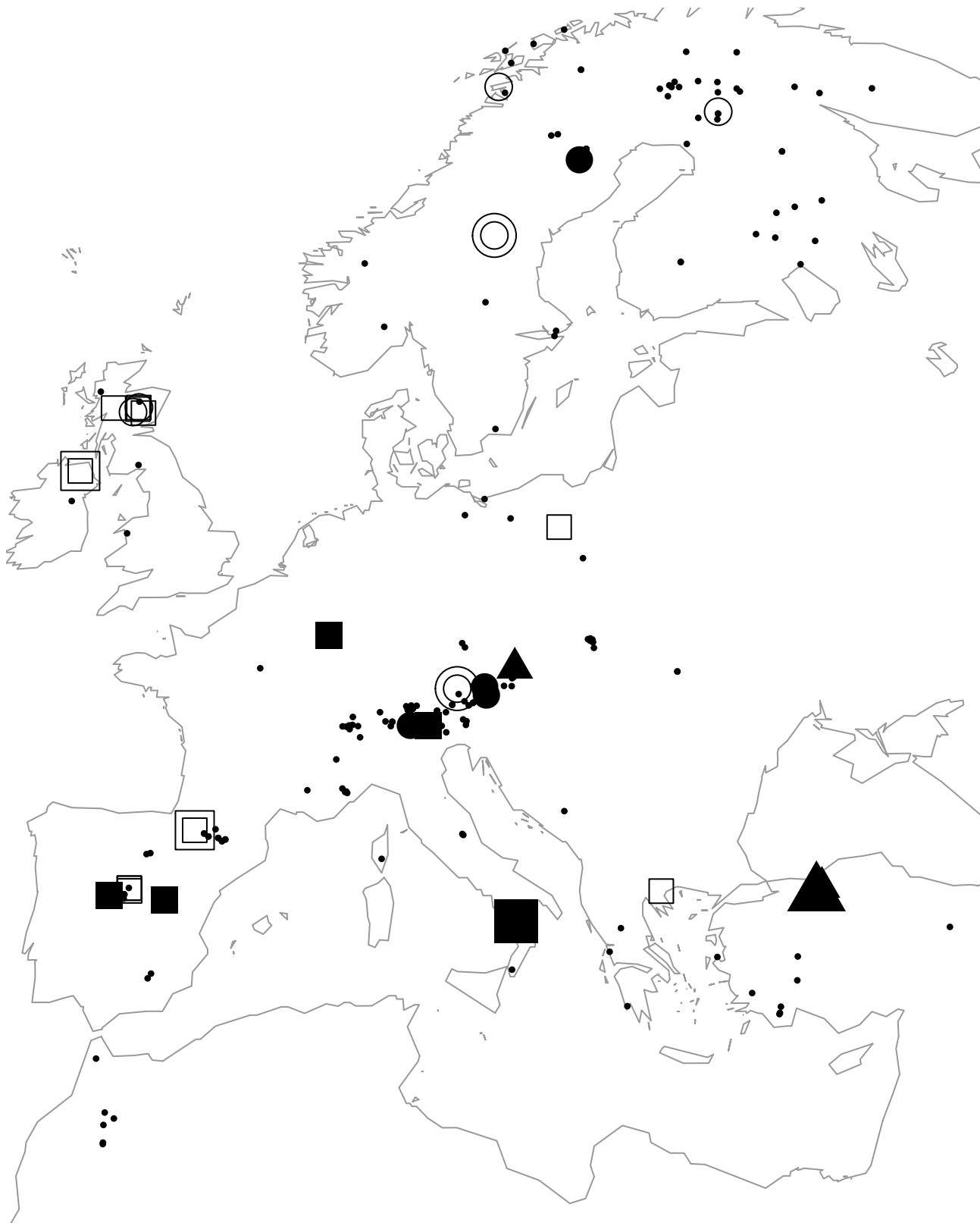
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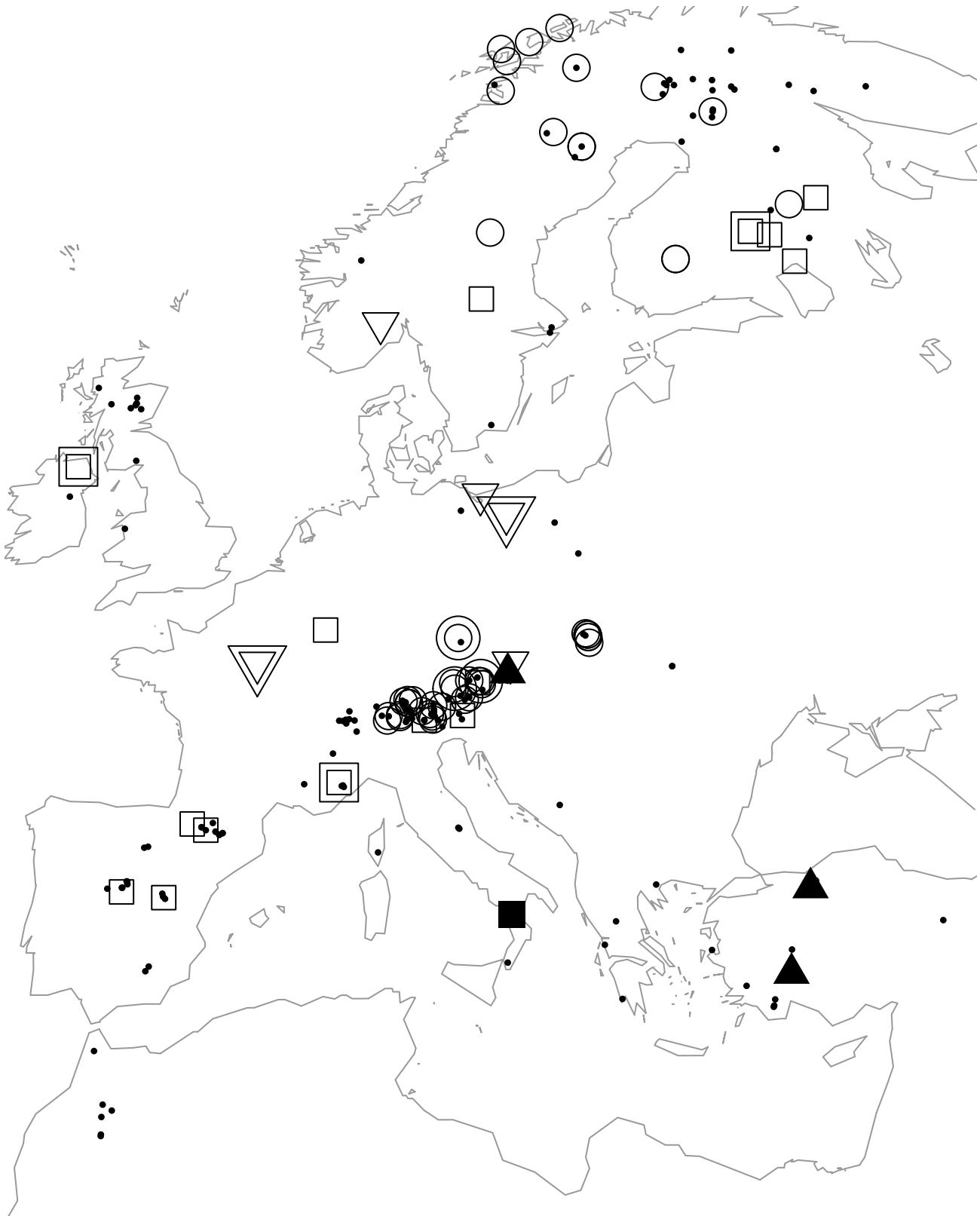
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growth anomalies1740



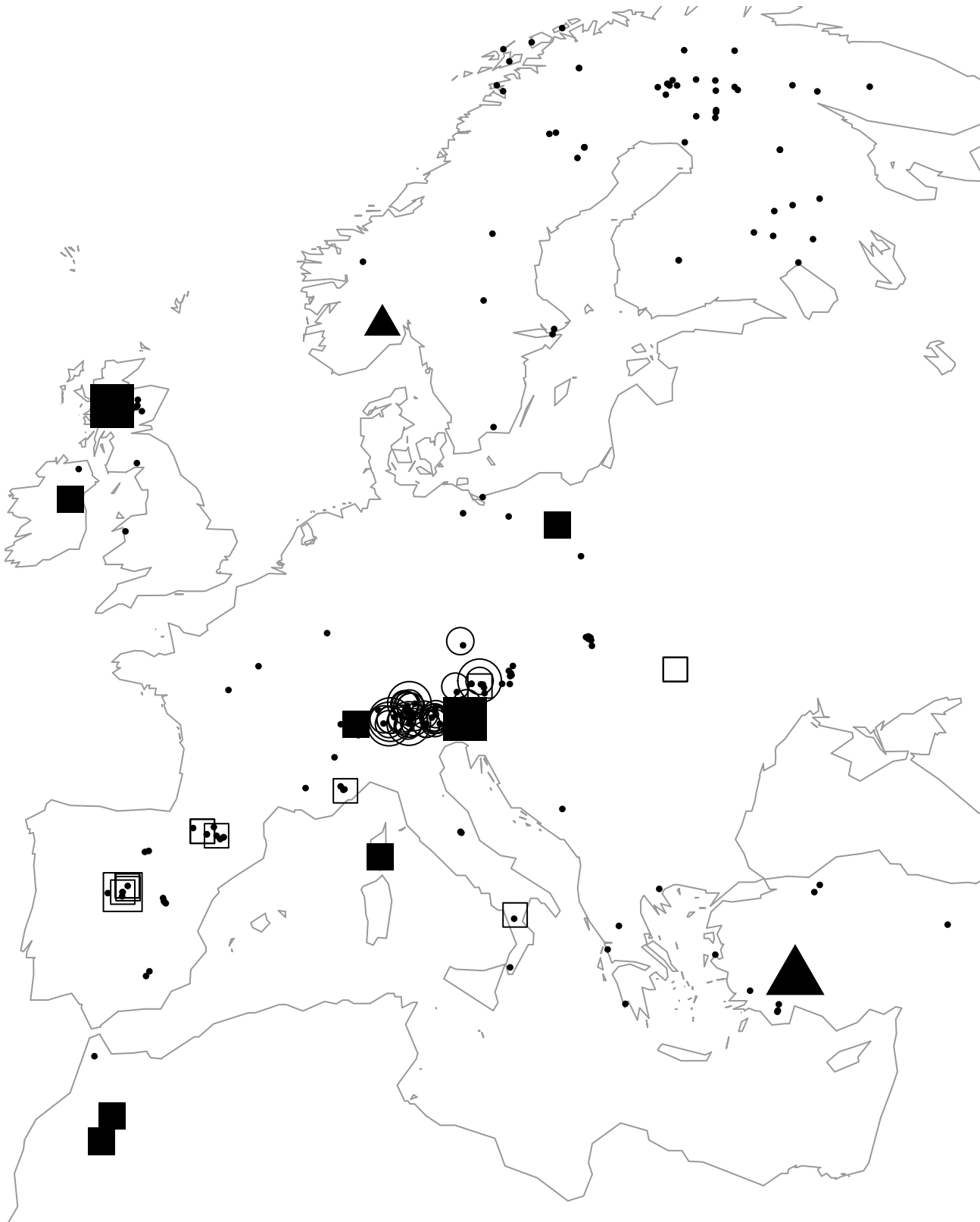
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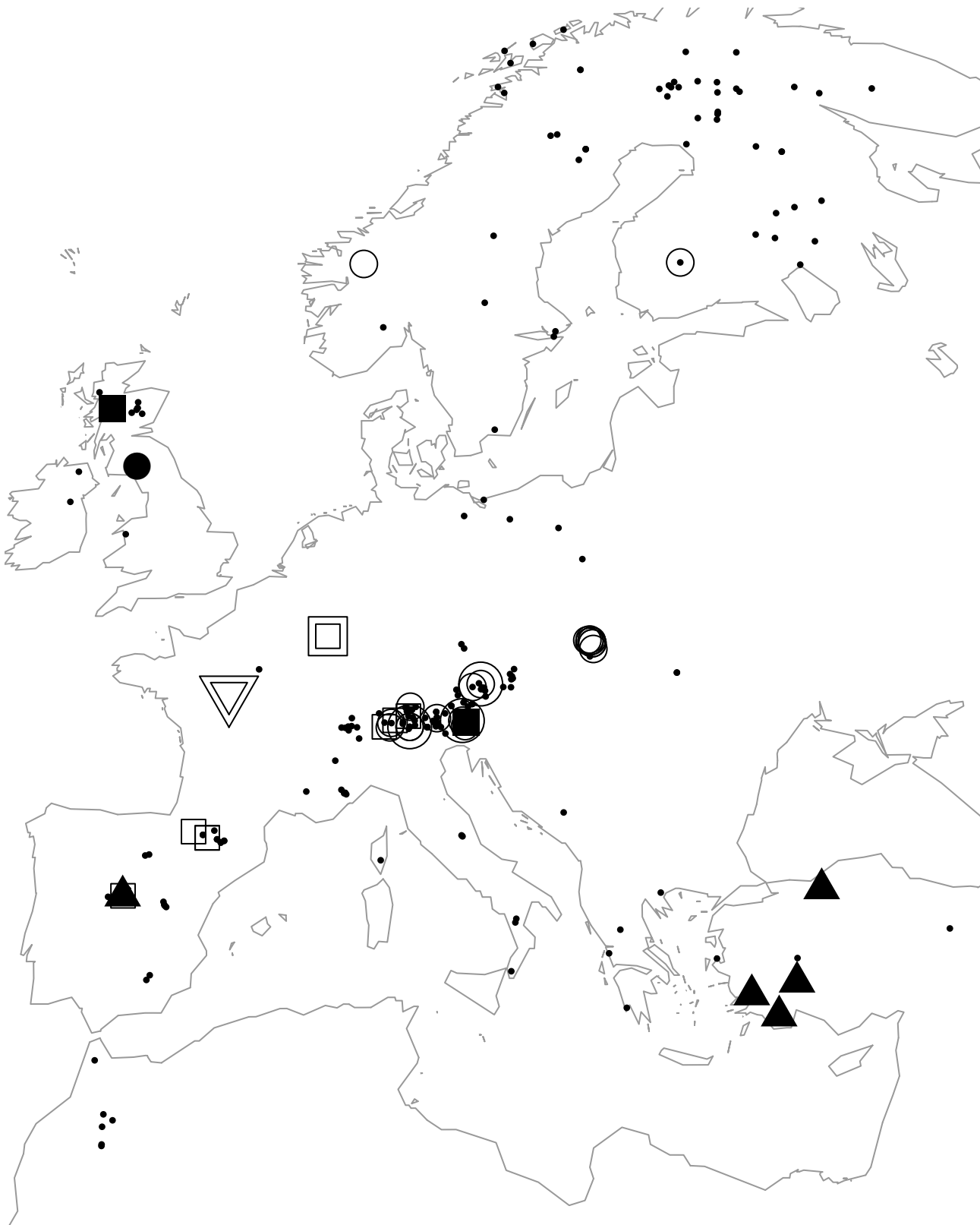
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growth anomalies1743



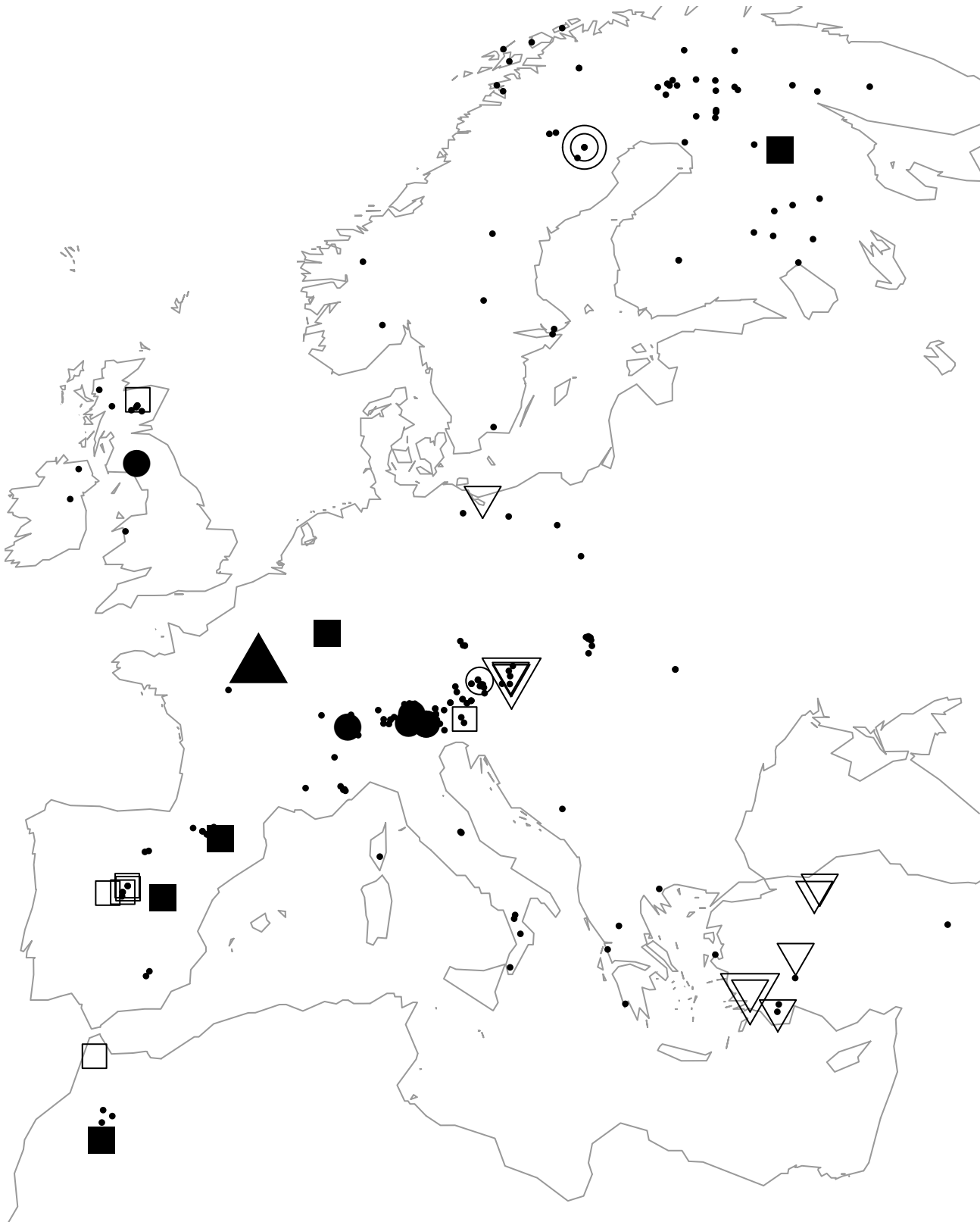
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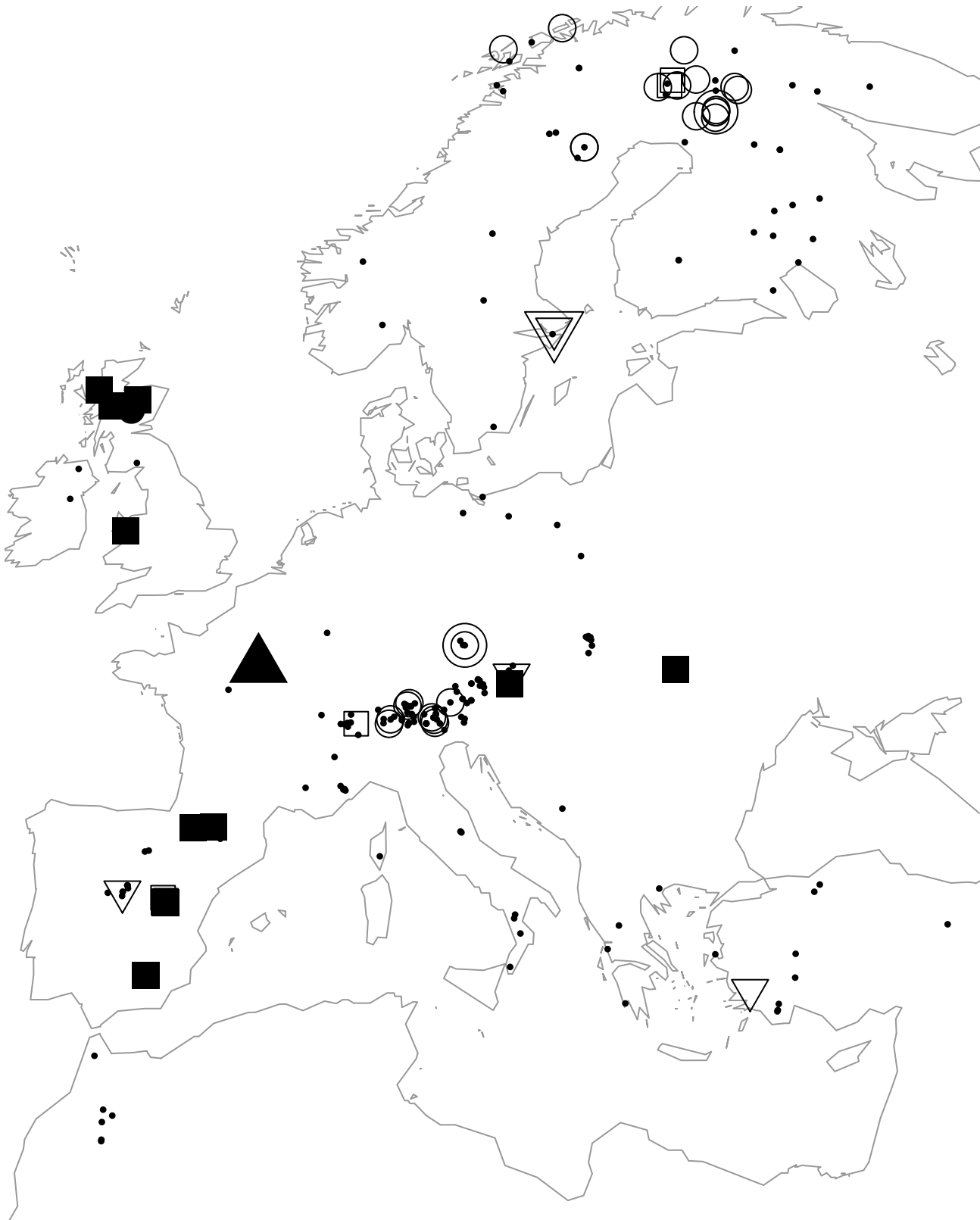
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growth anomalies1746



growth anomalies1747



growth anomalies1748



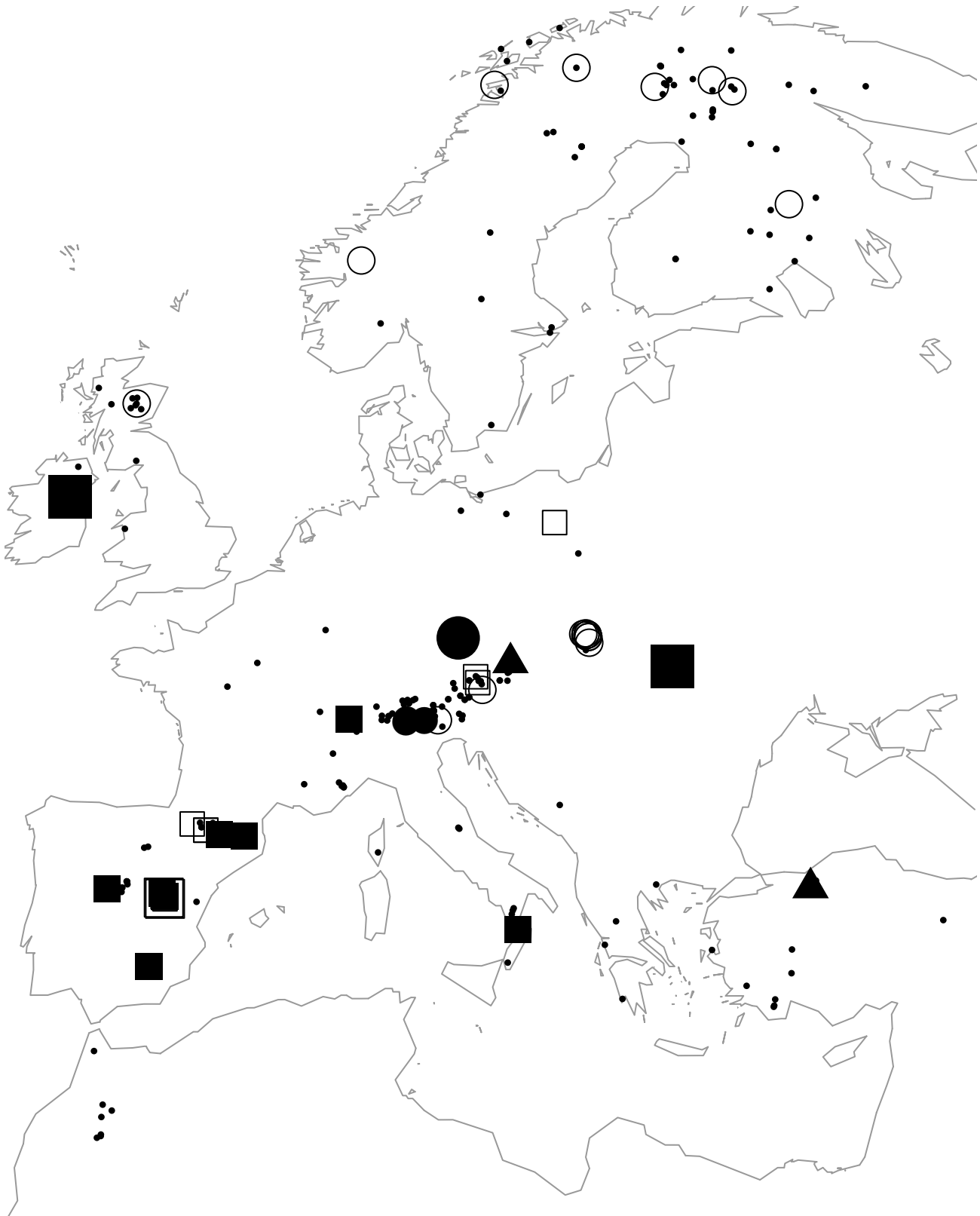
growth anomalies1749



growth anomalies1750



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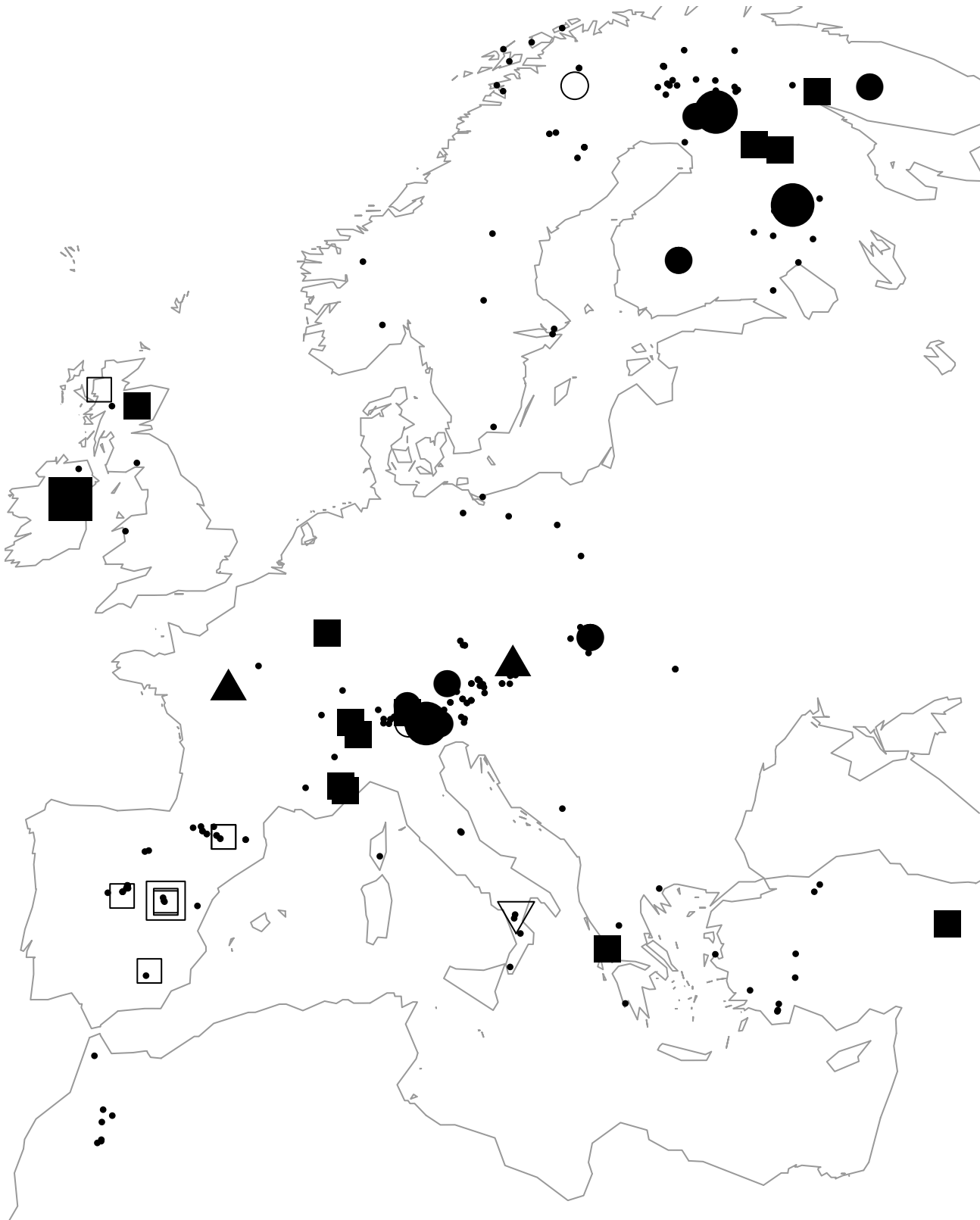
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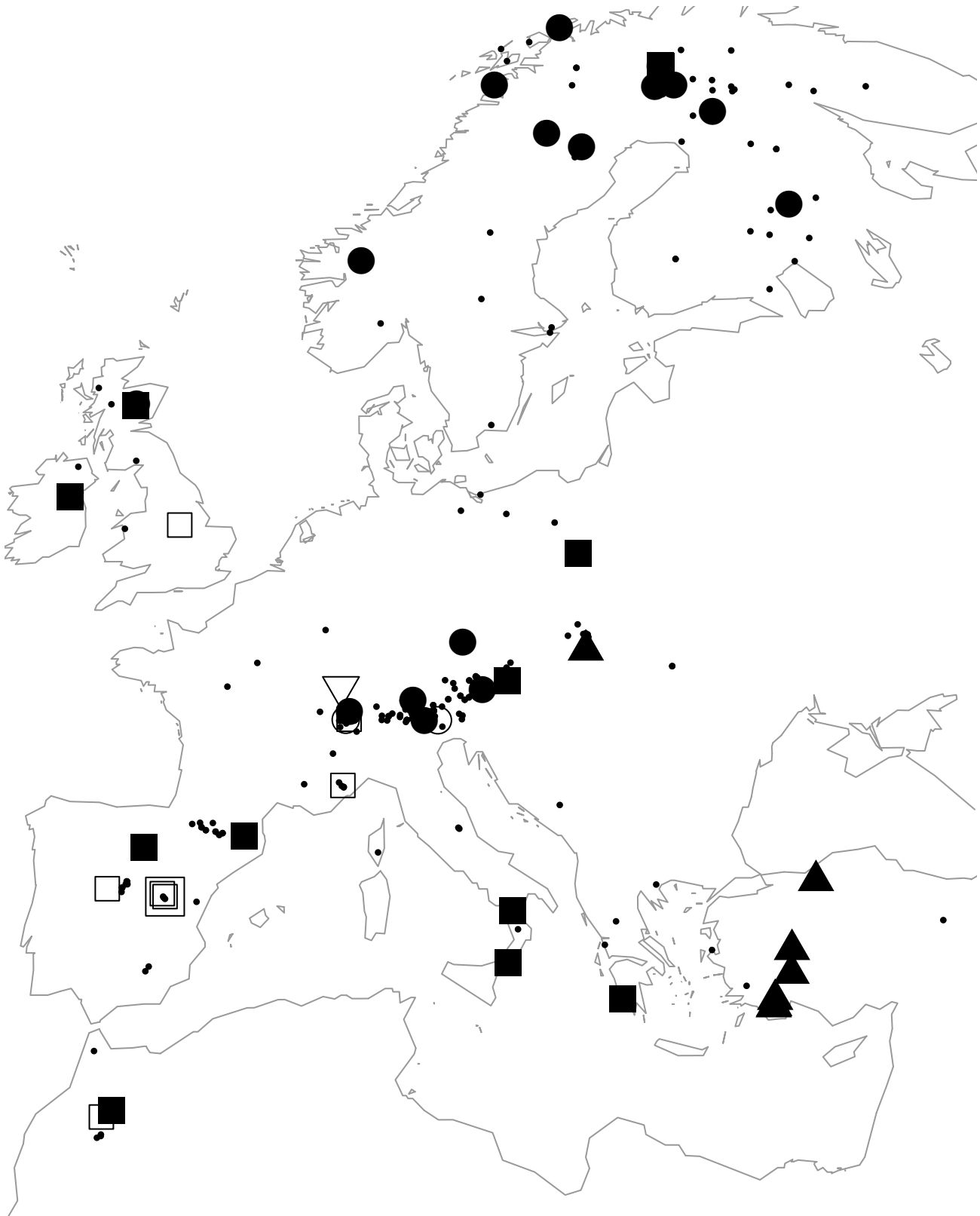
growth anomalies1753



growth anomalies1754



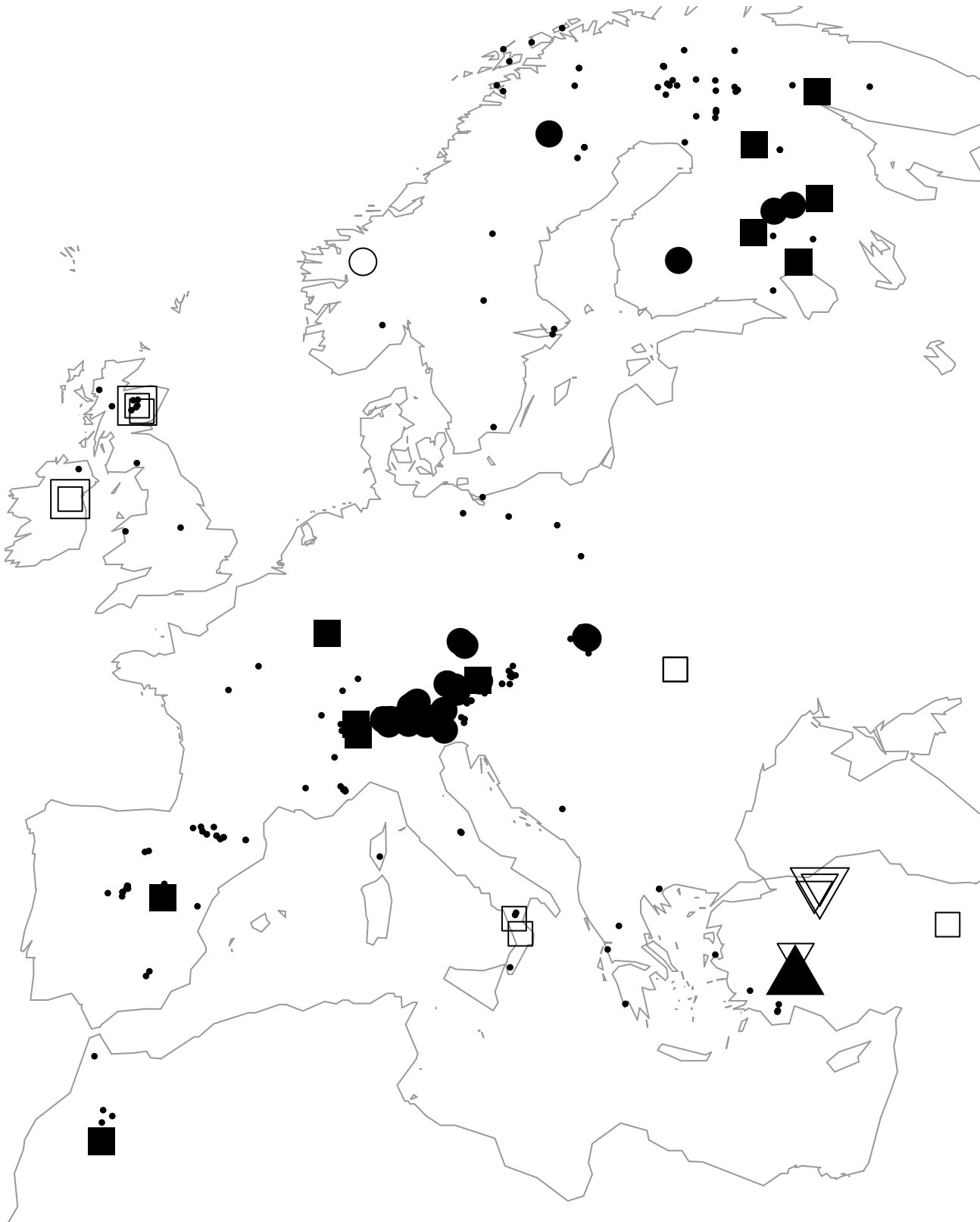
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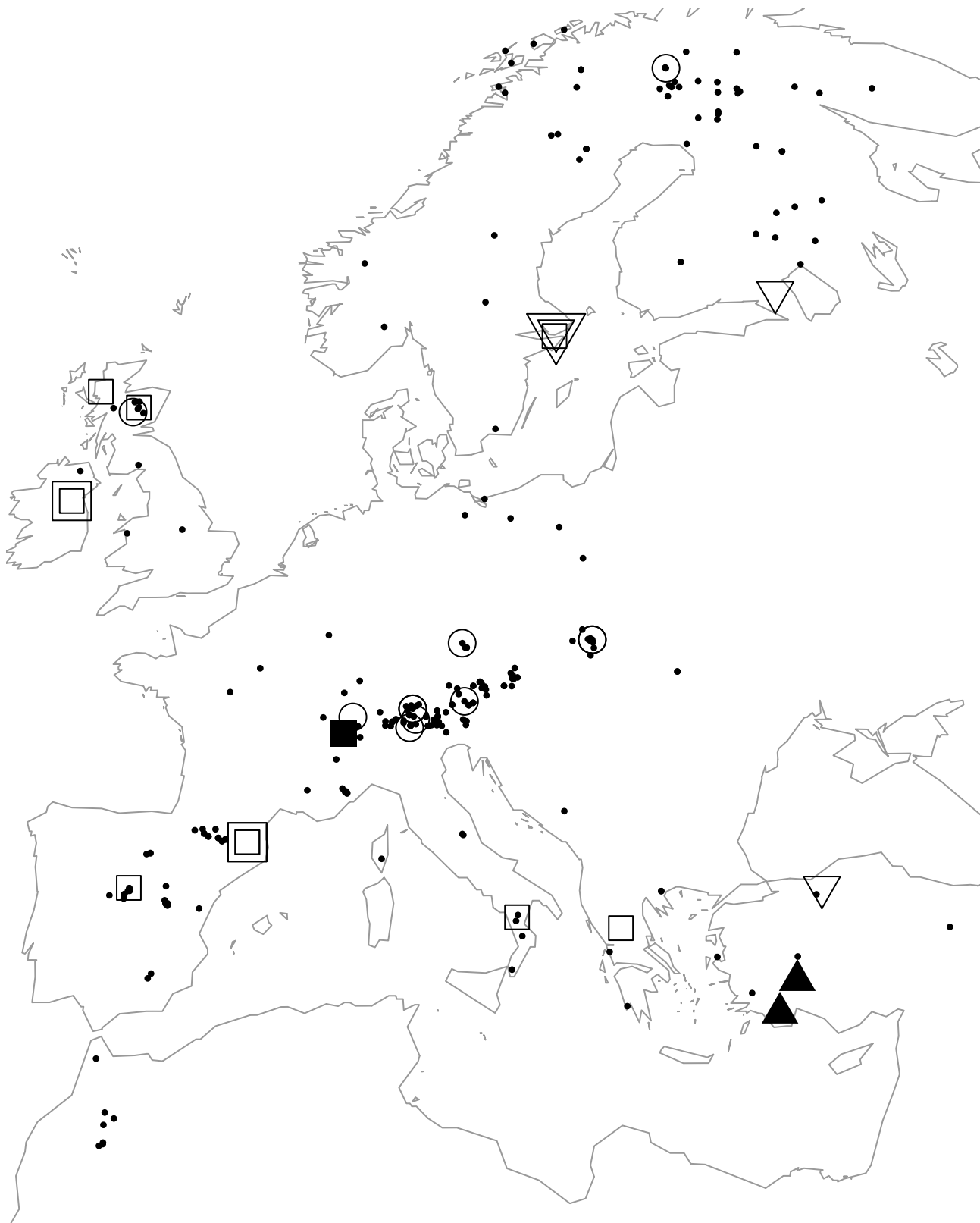
growth anomalies1756



growth anomalies1757



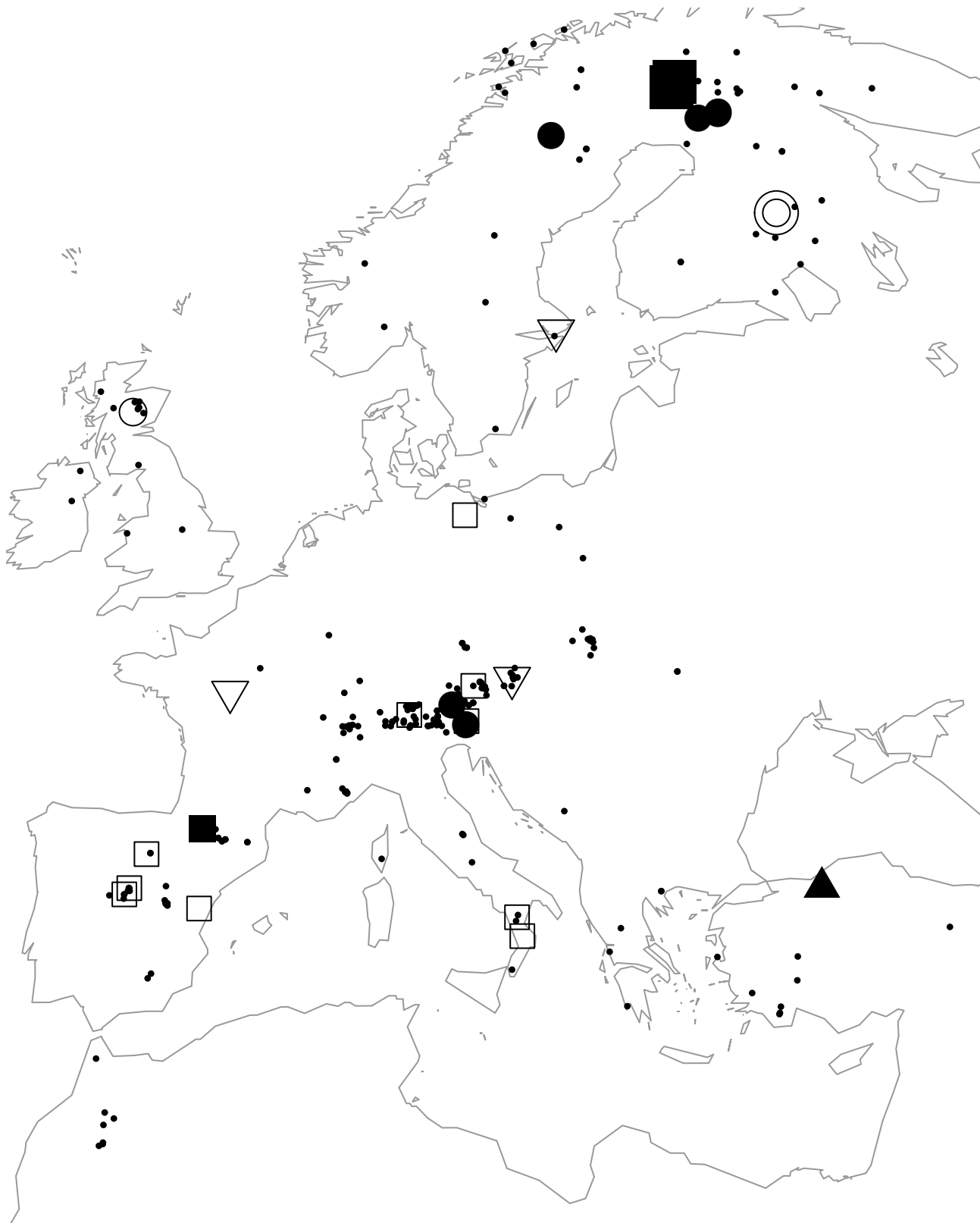
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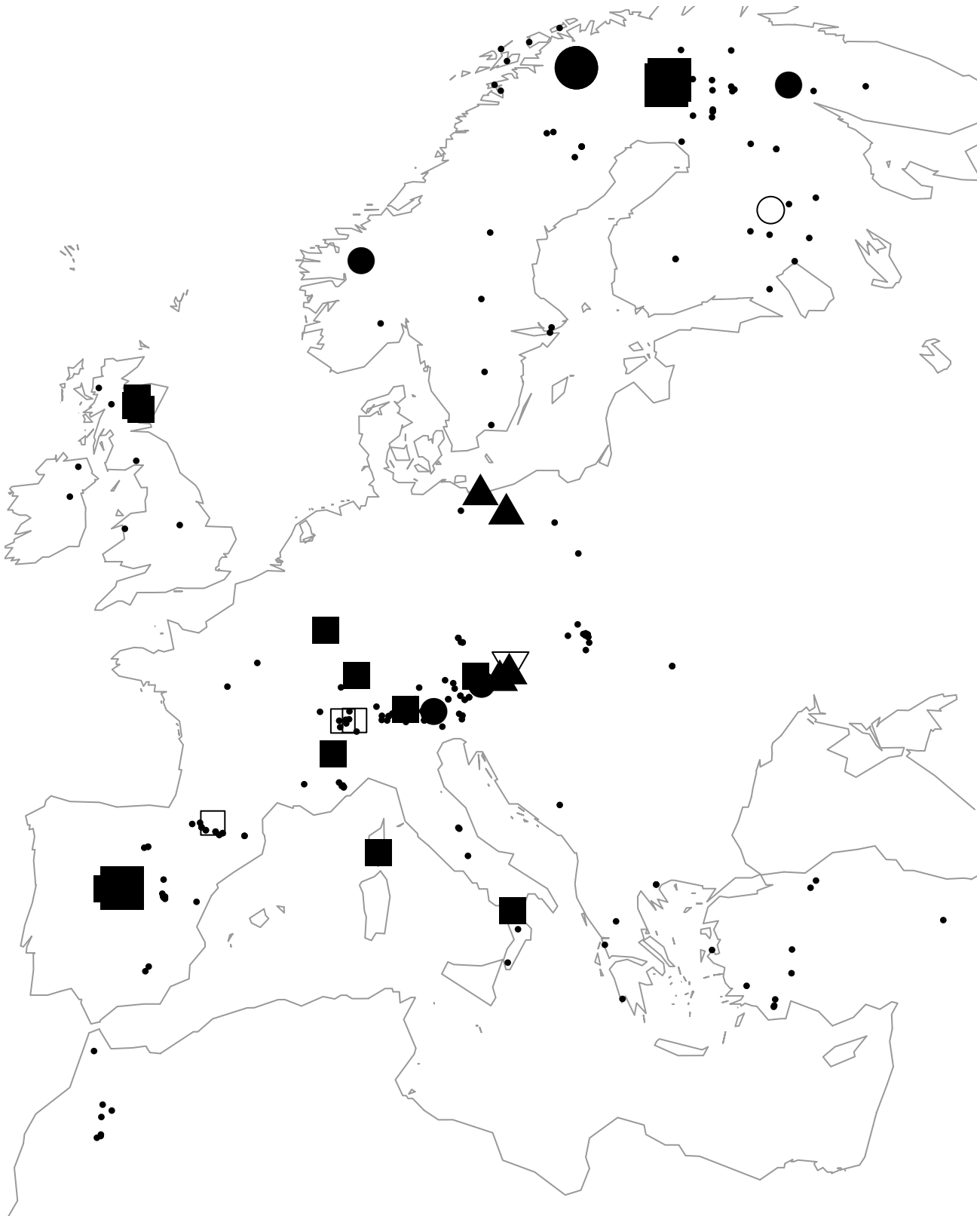
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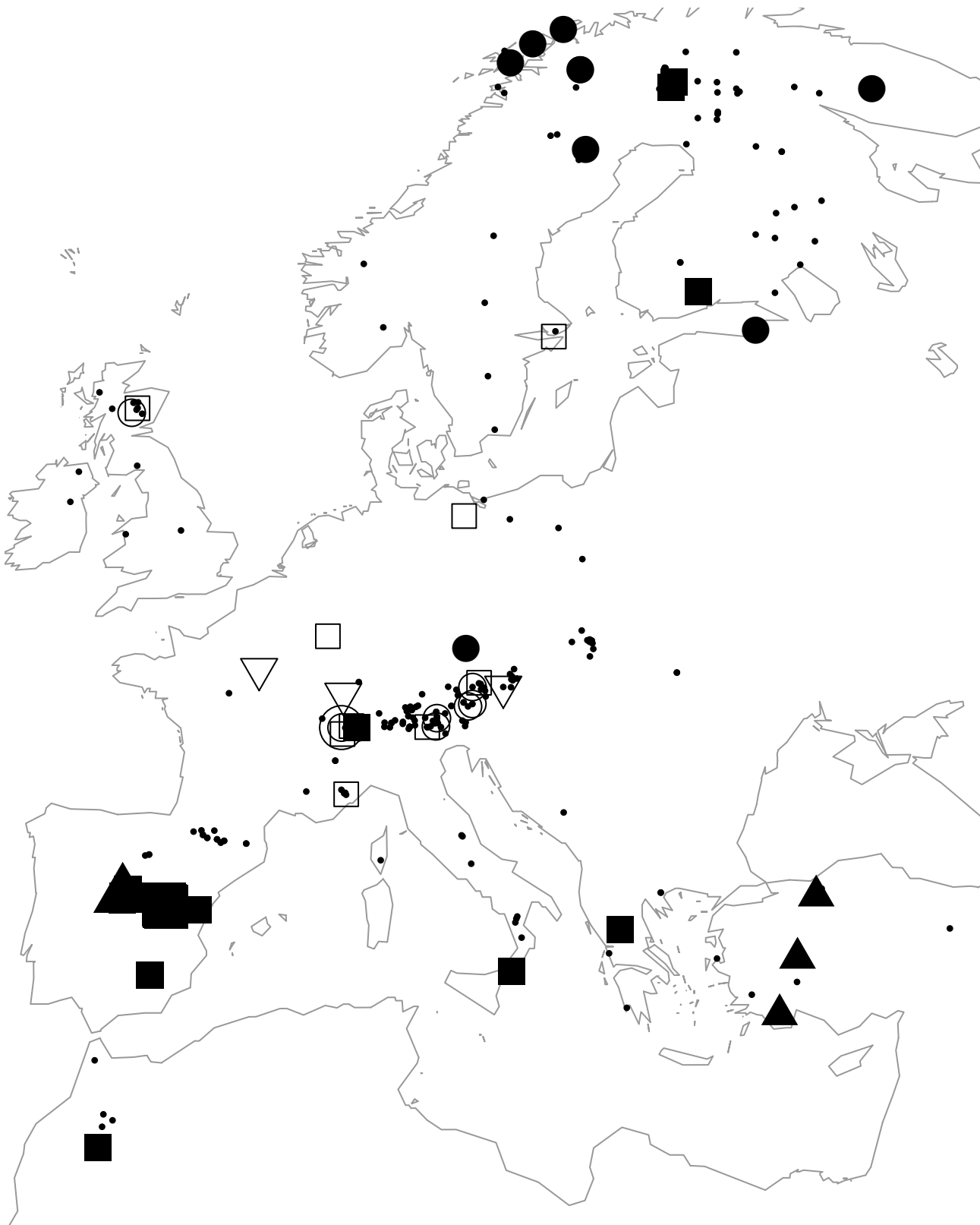
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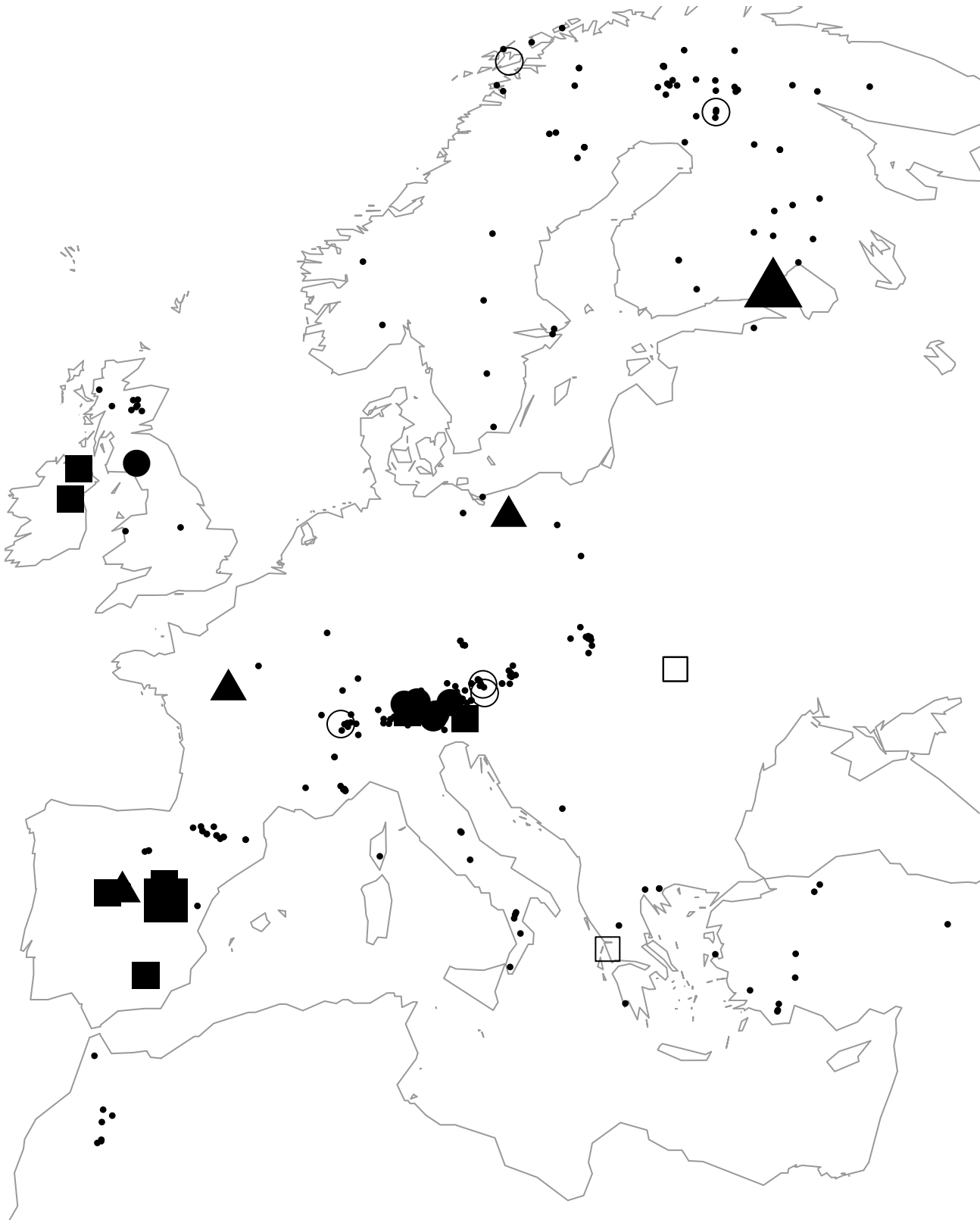
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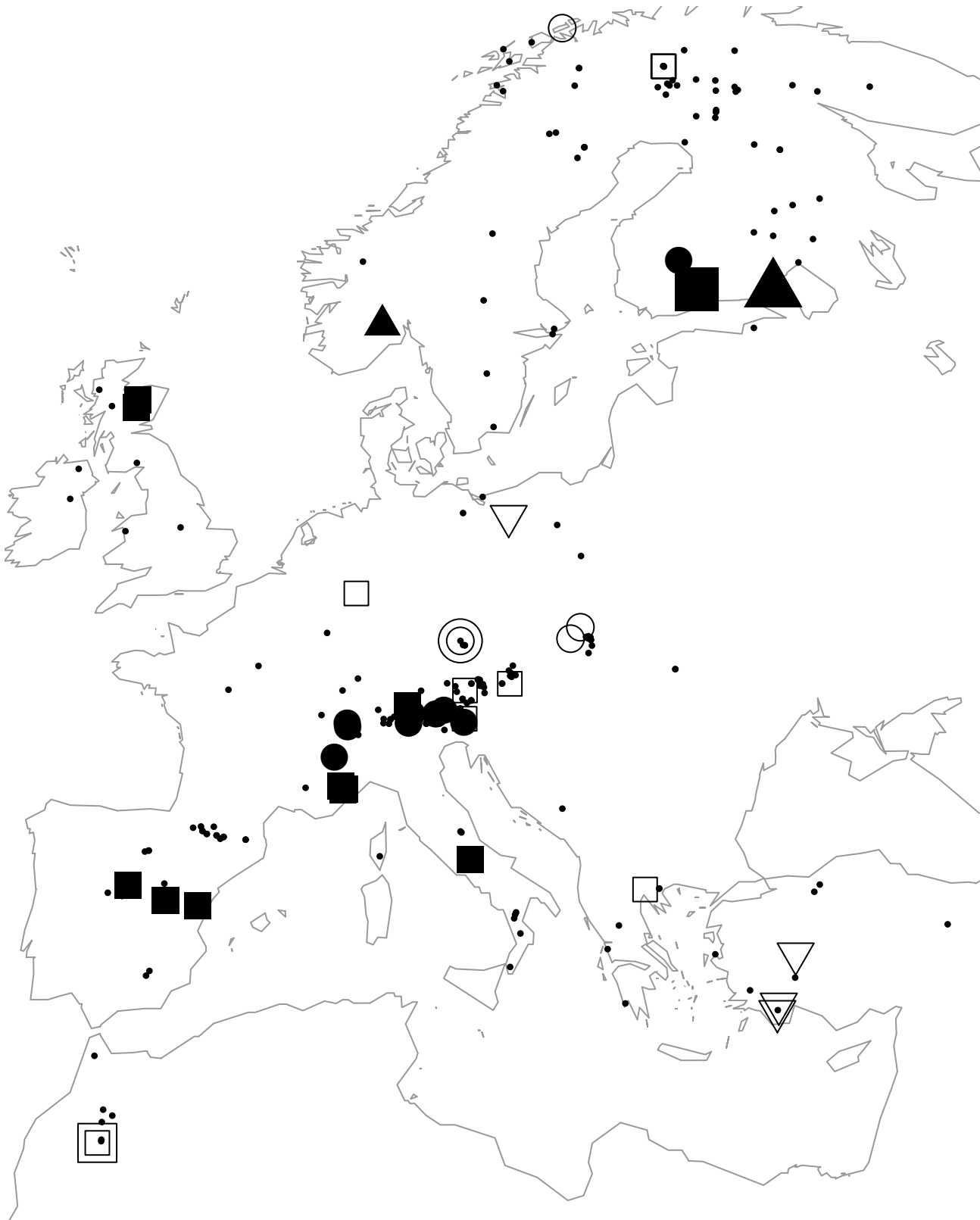
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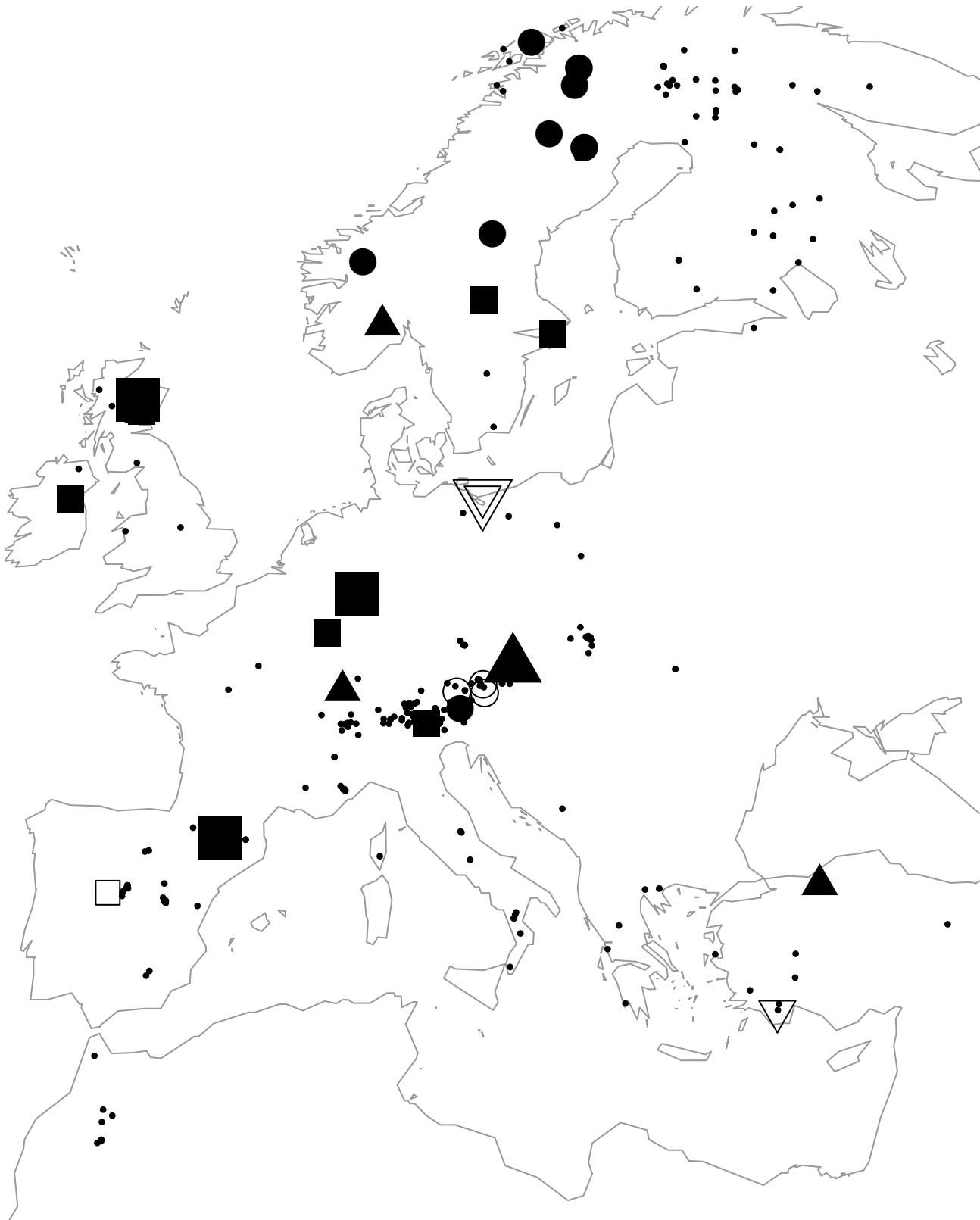
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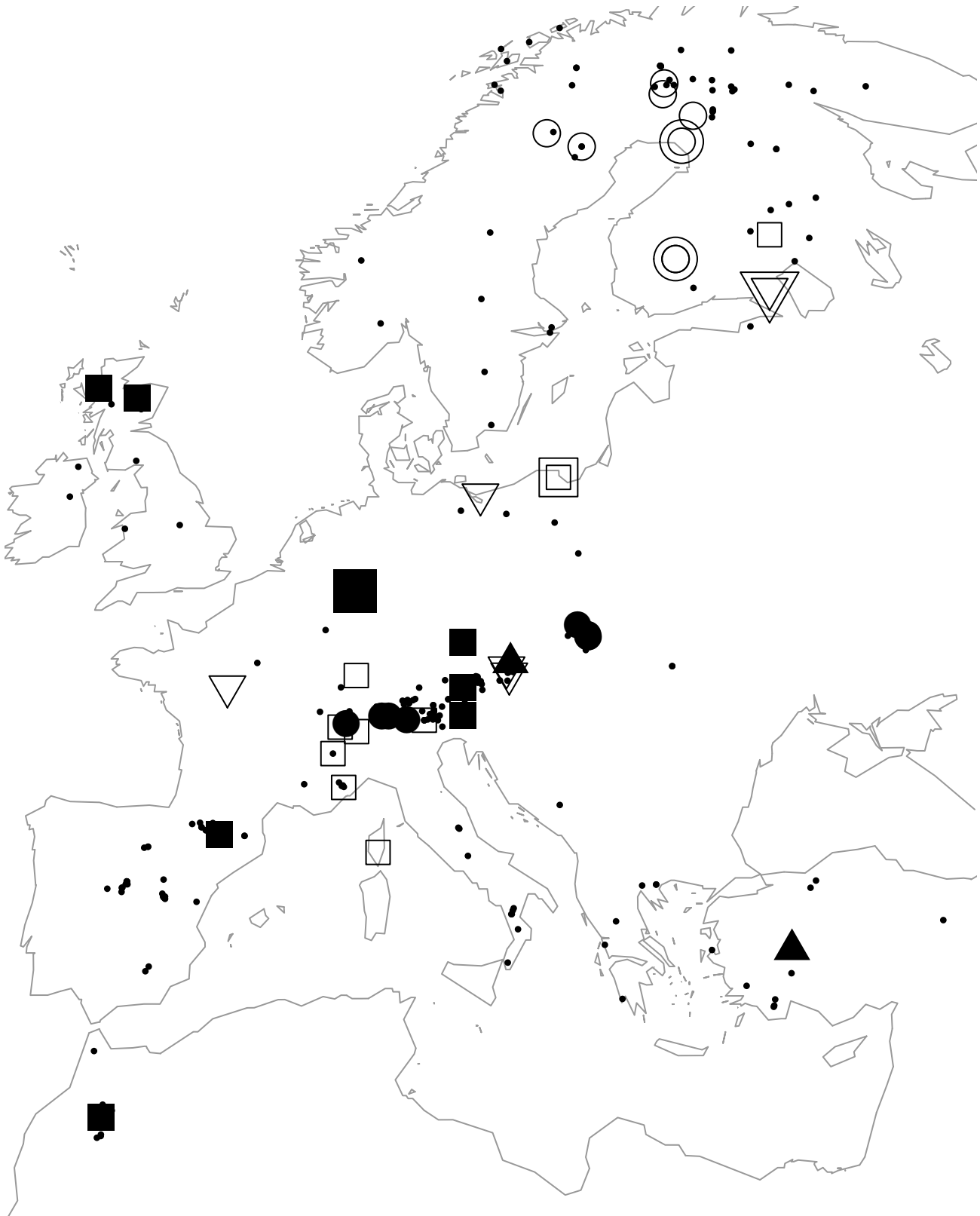
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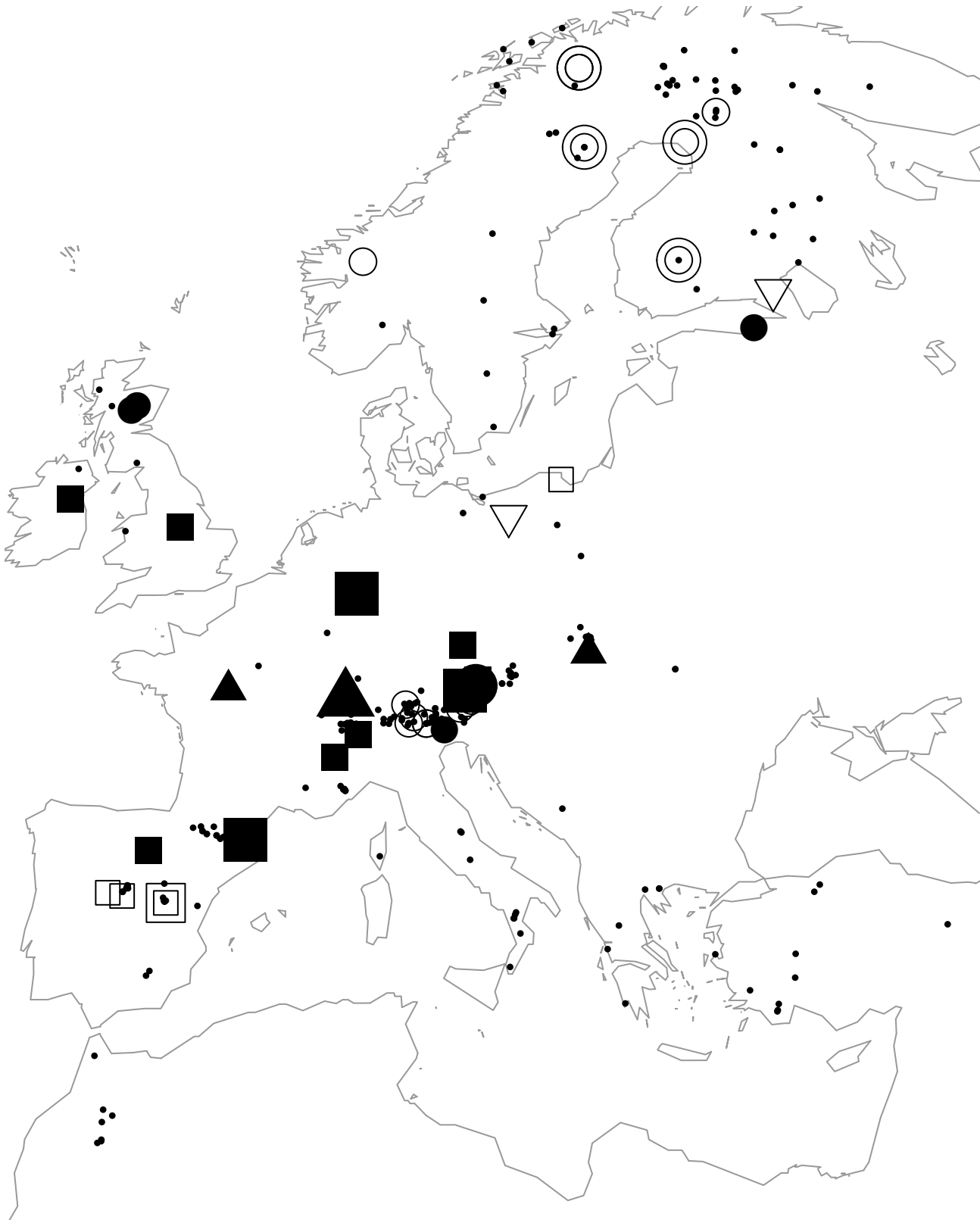
growth anomalies1766



growth anomalies1767



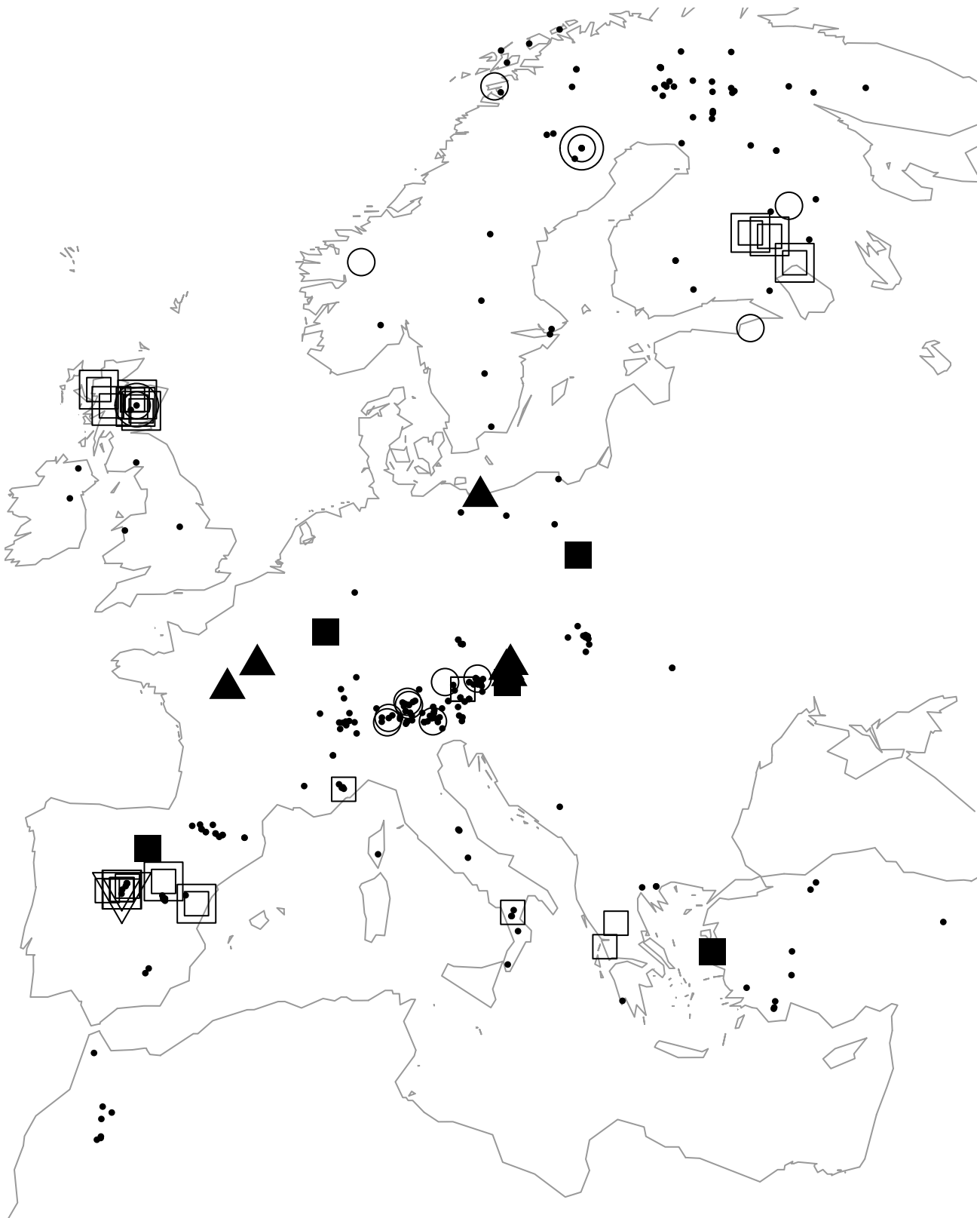
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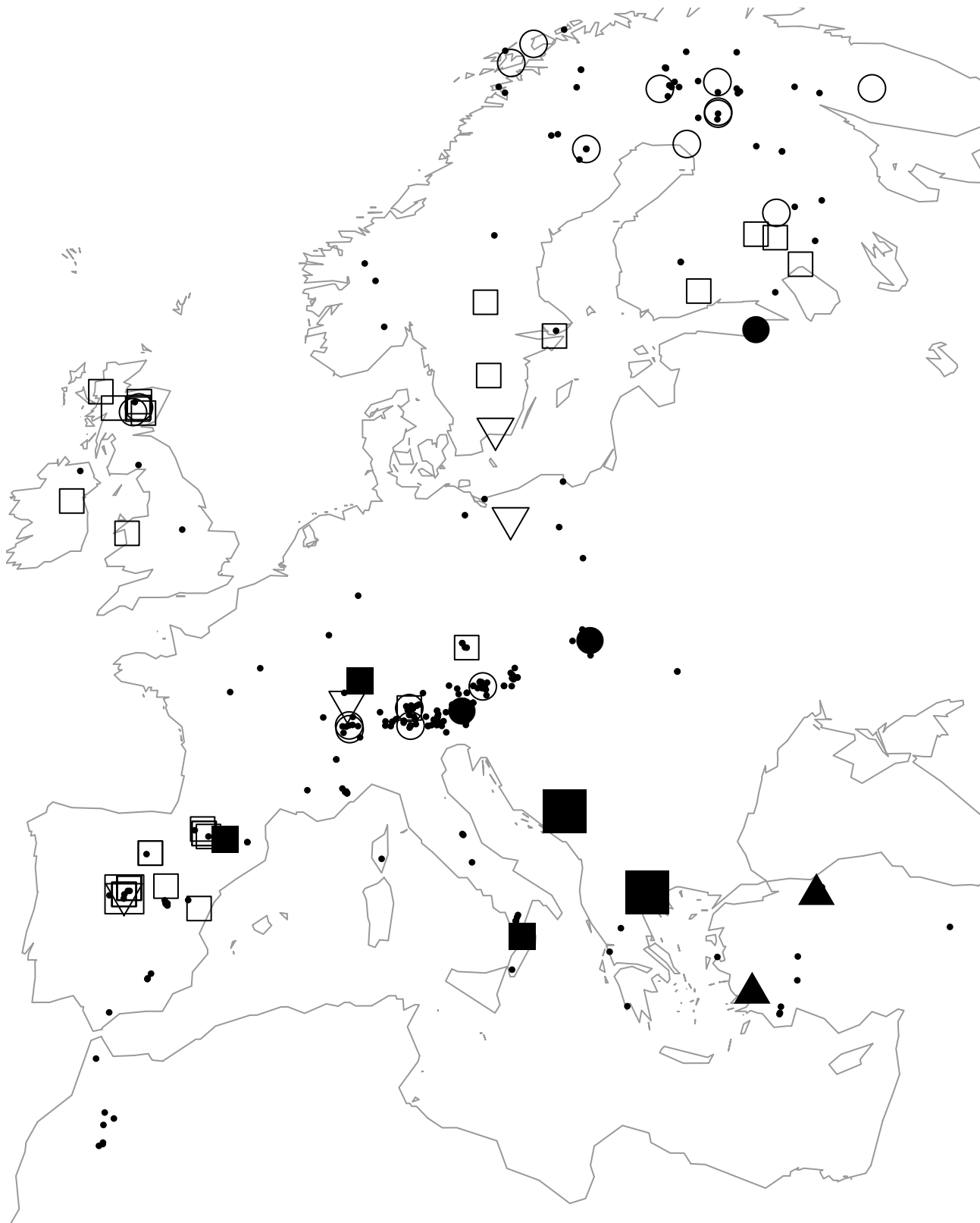
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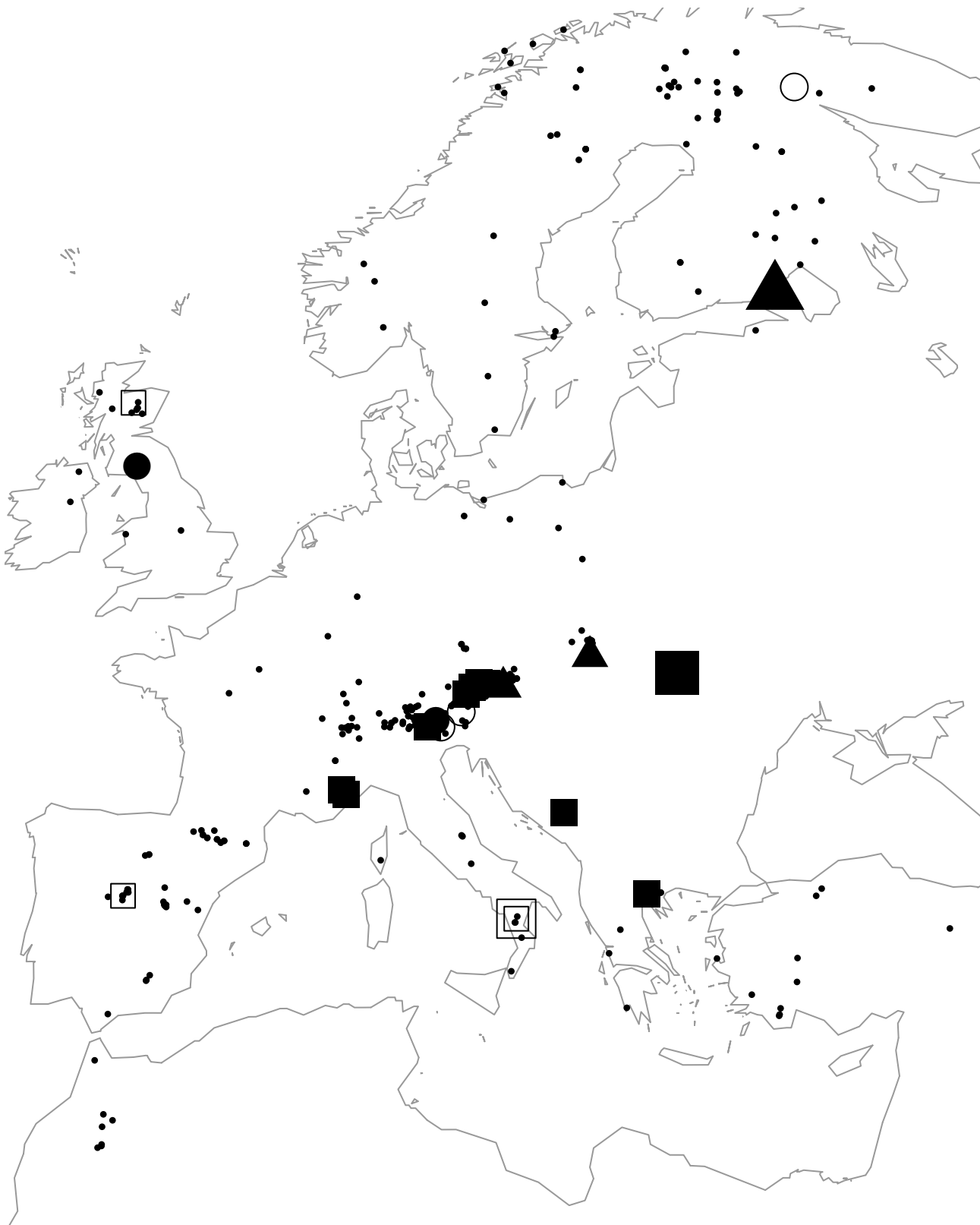
growth anomalies1770



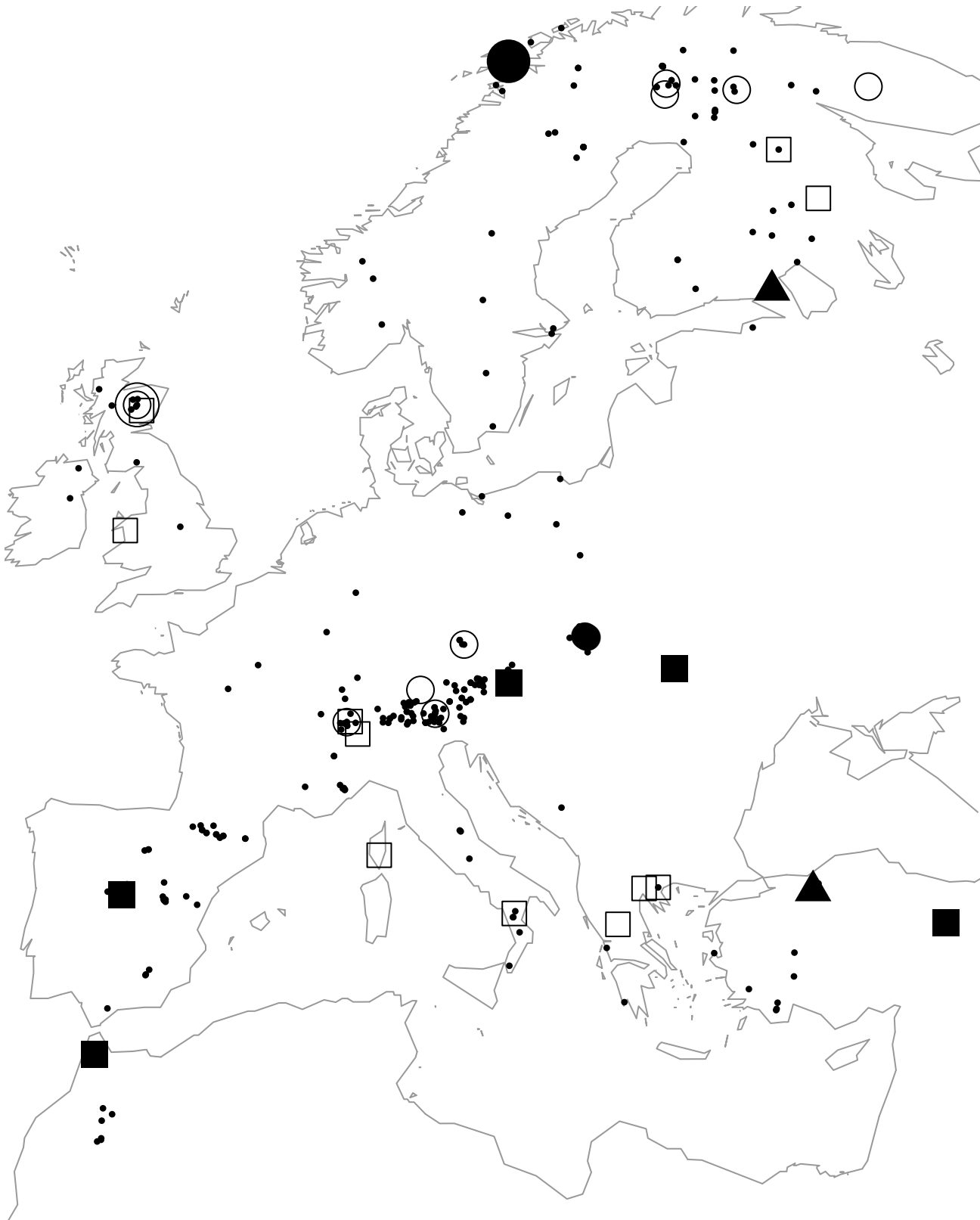
growth anomalies1771



growth anomalies1772



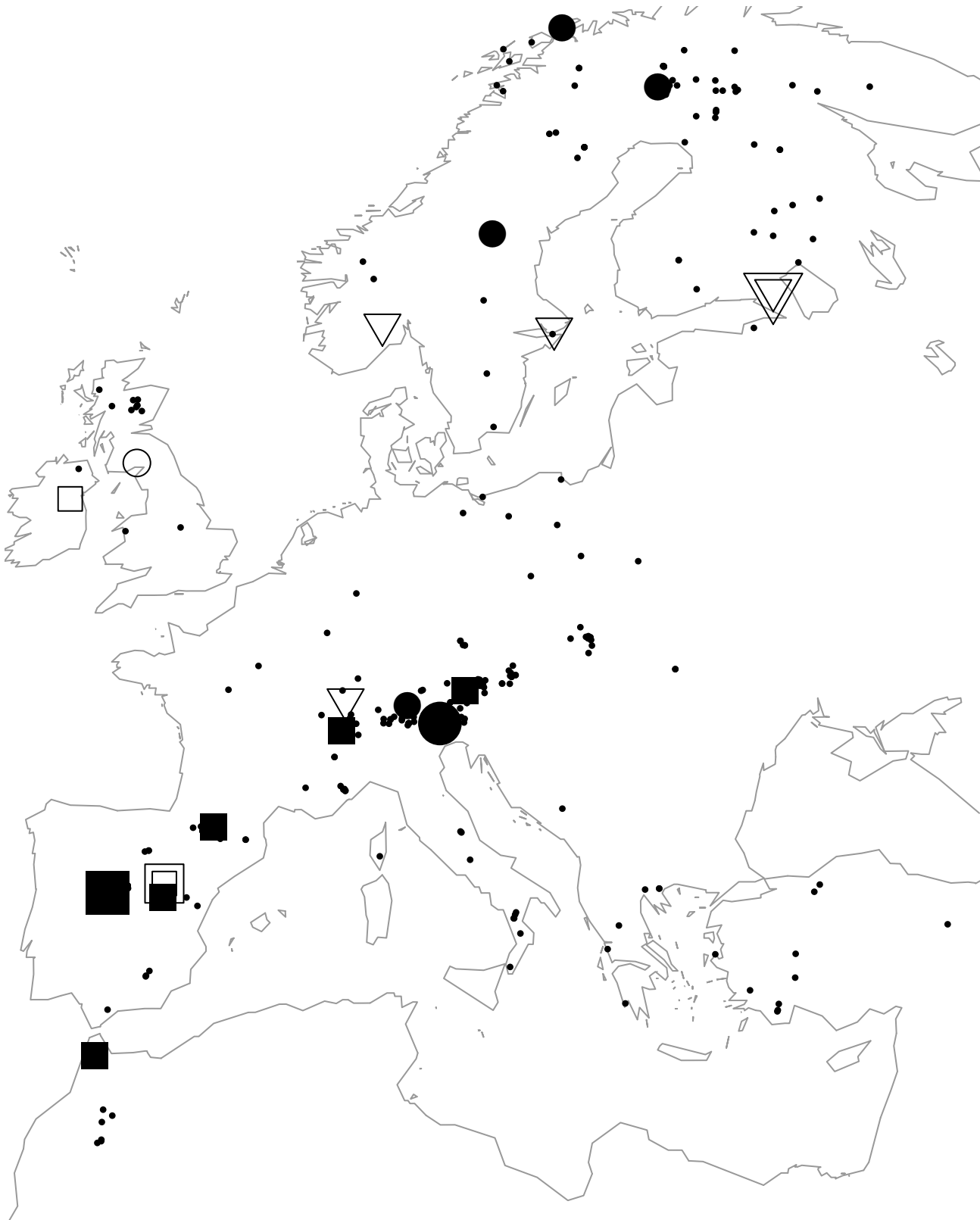
growth anomalies1773



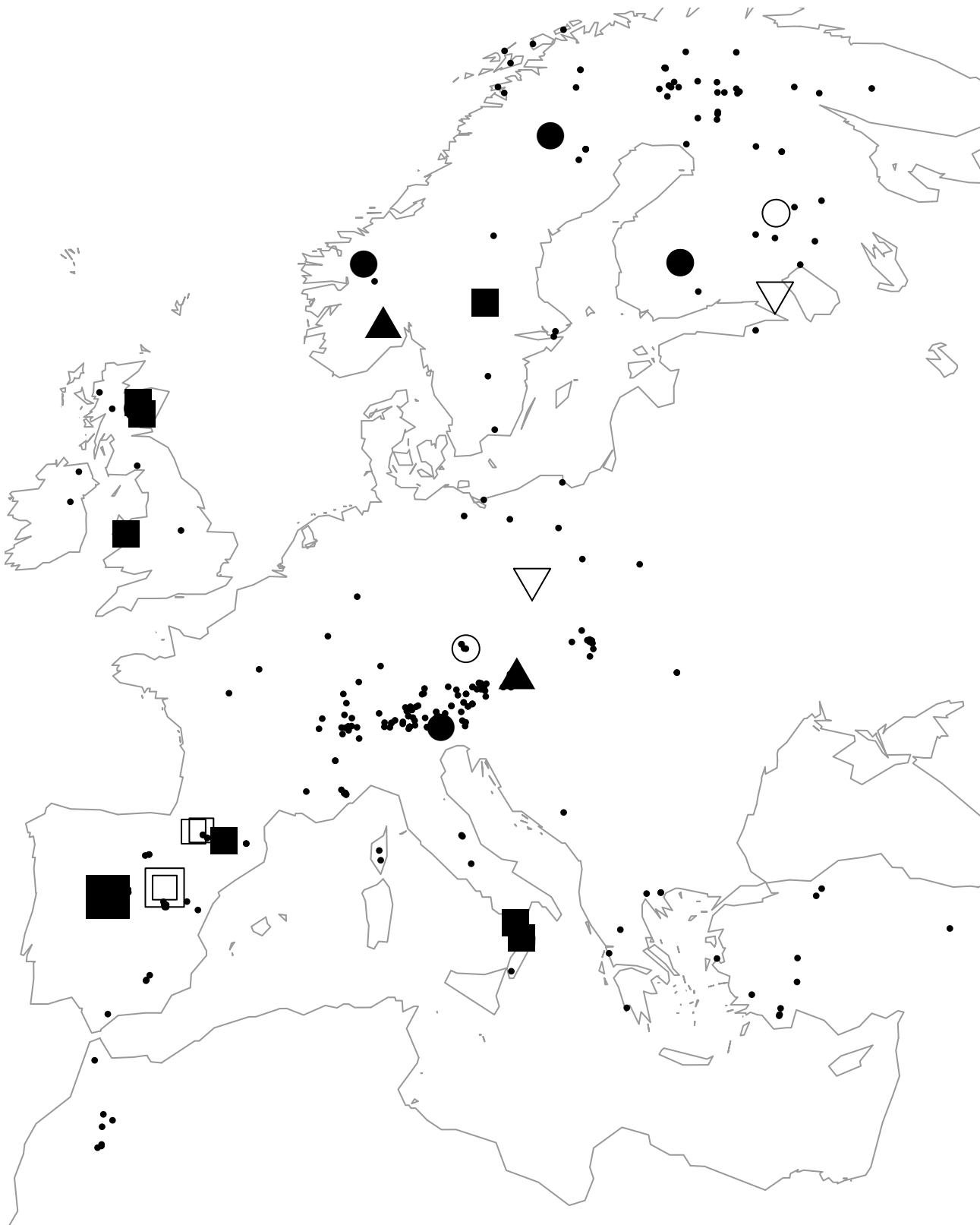
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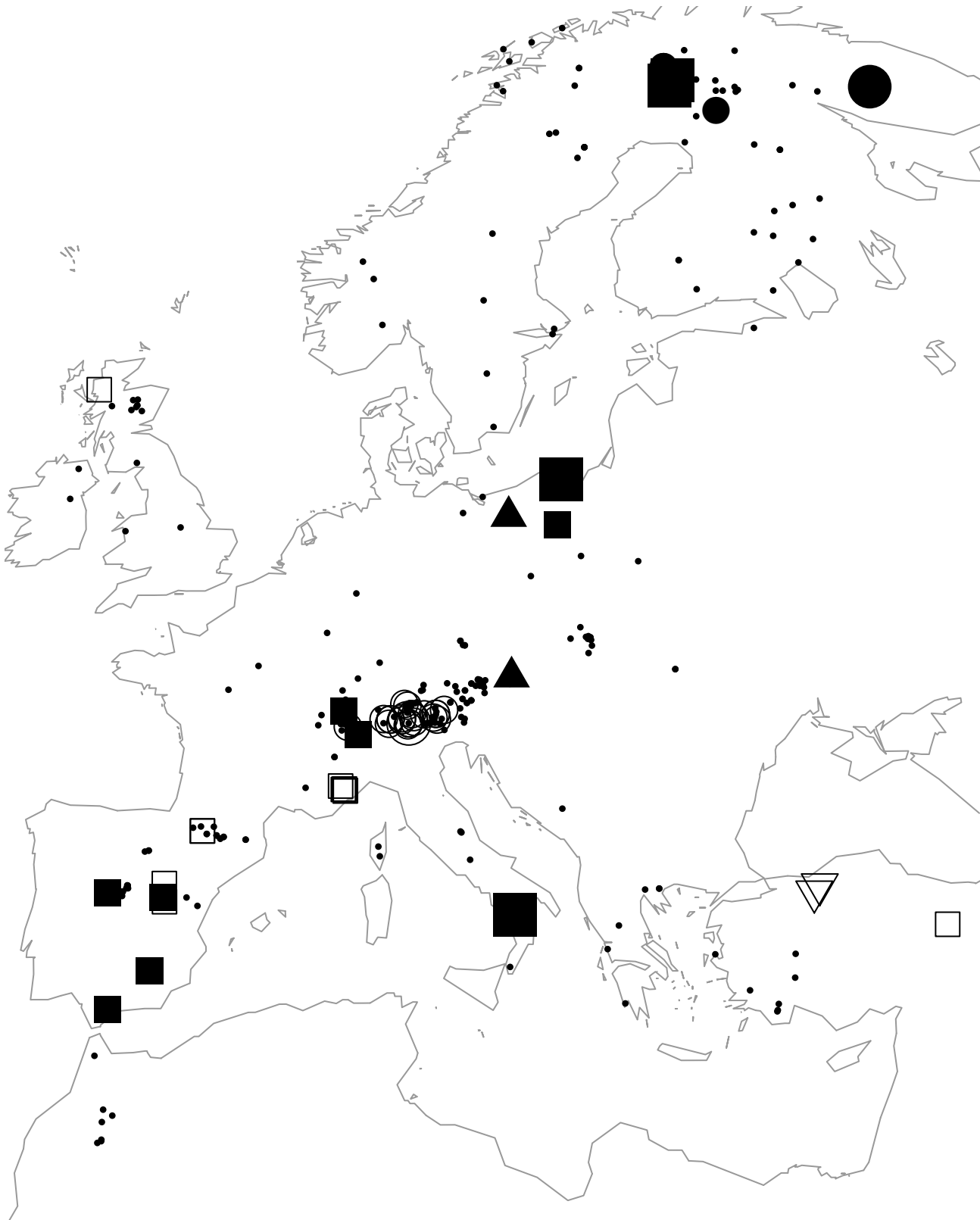
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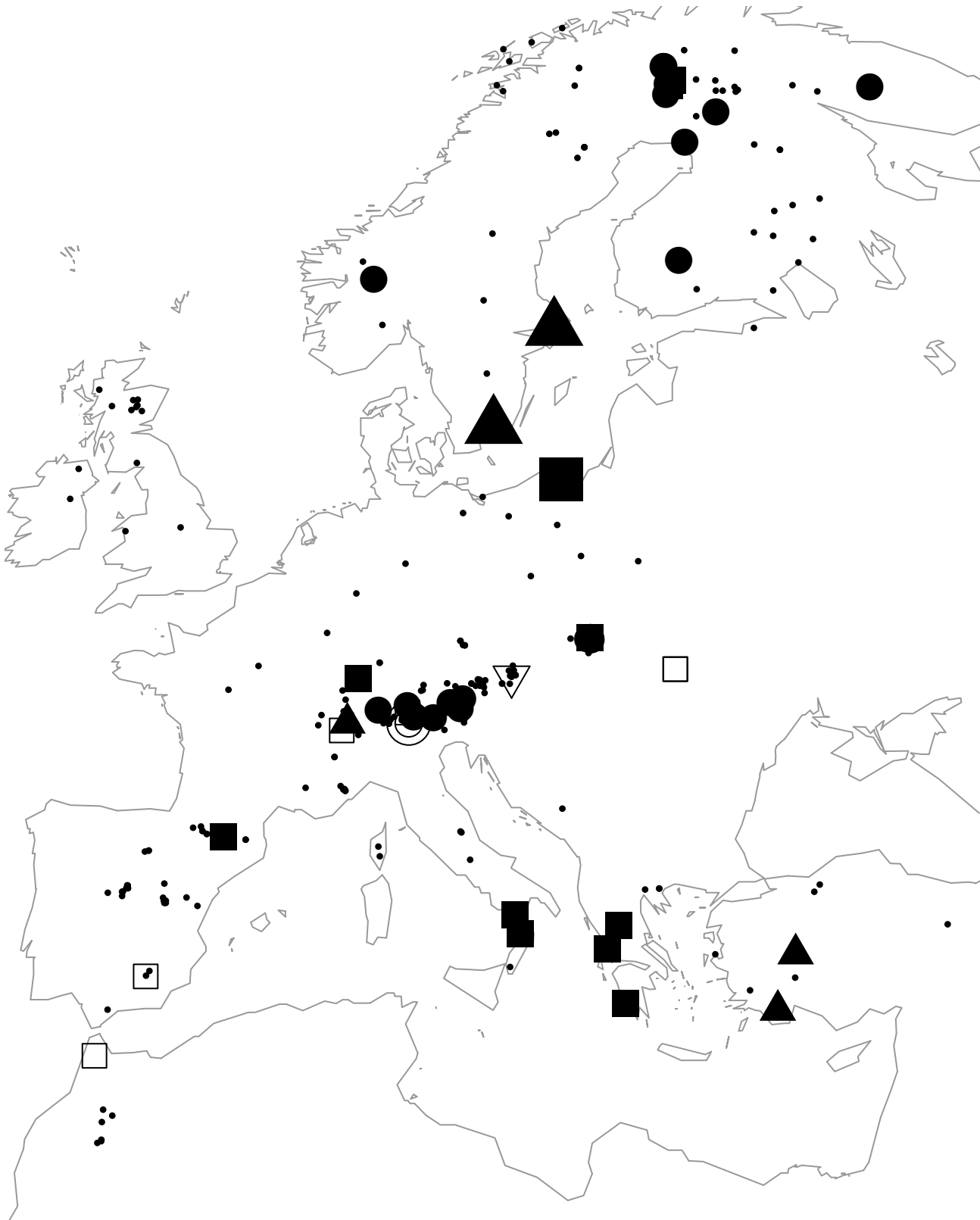
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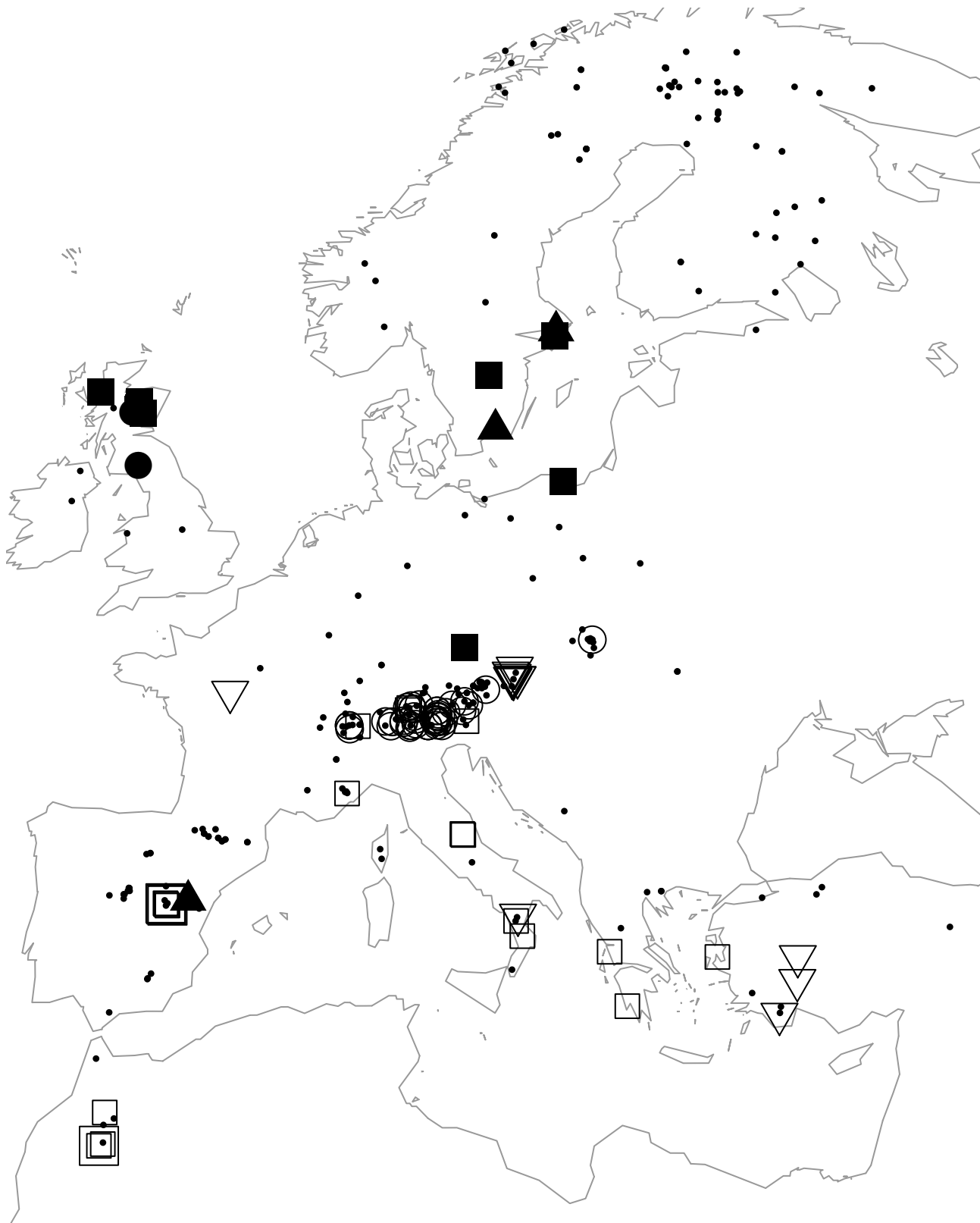
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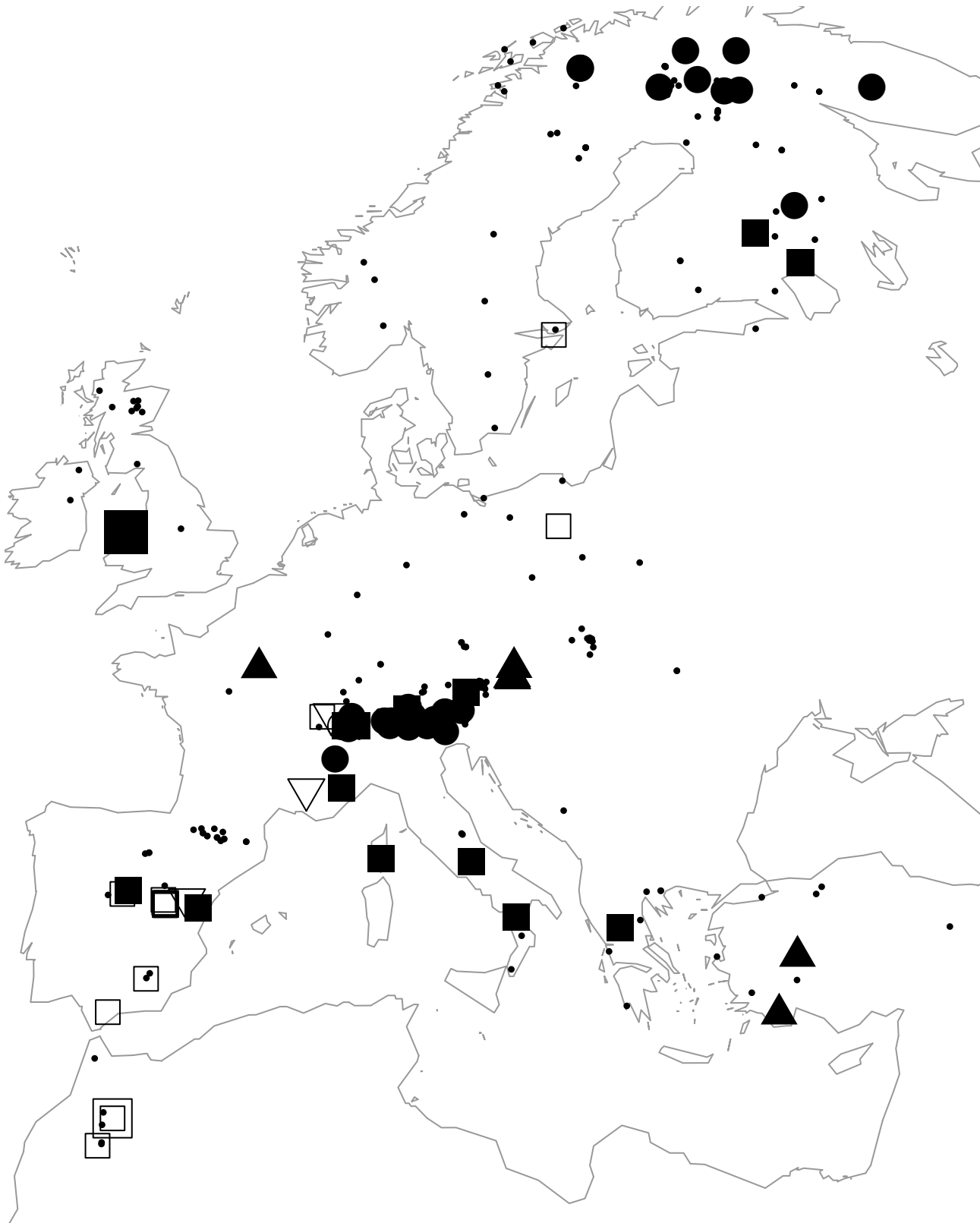
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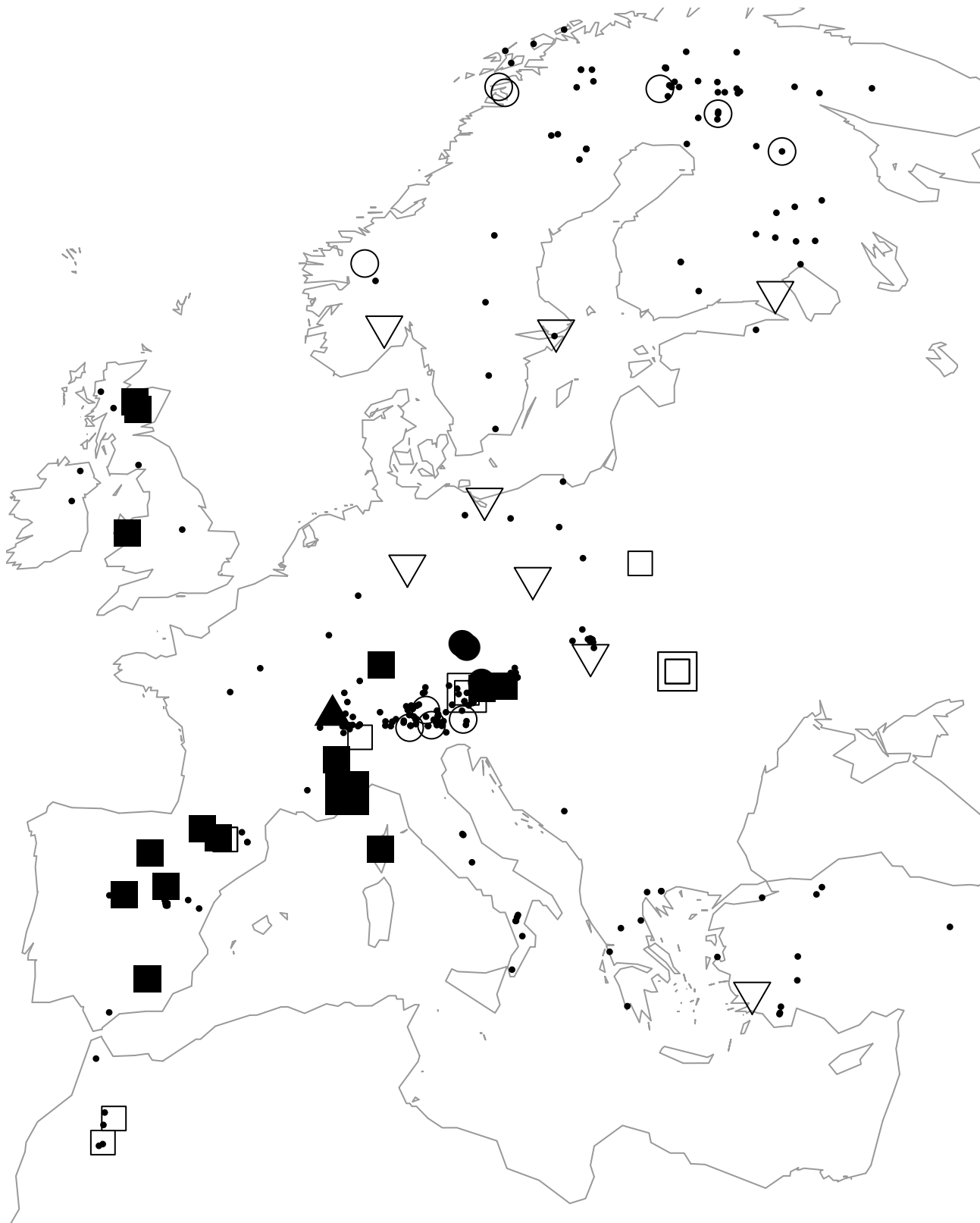
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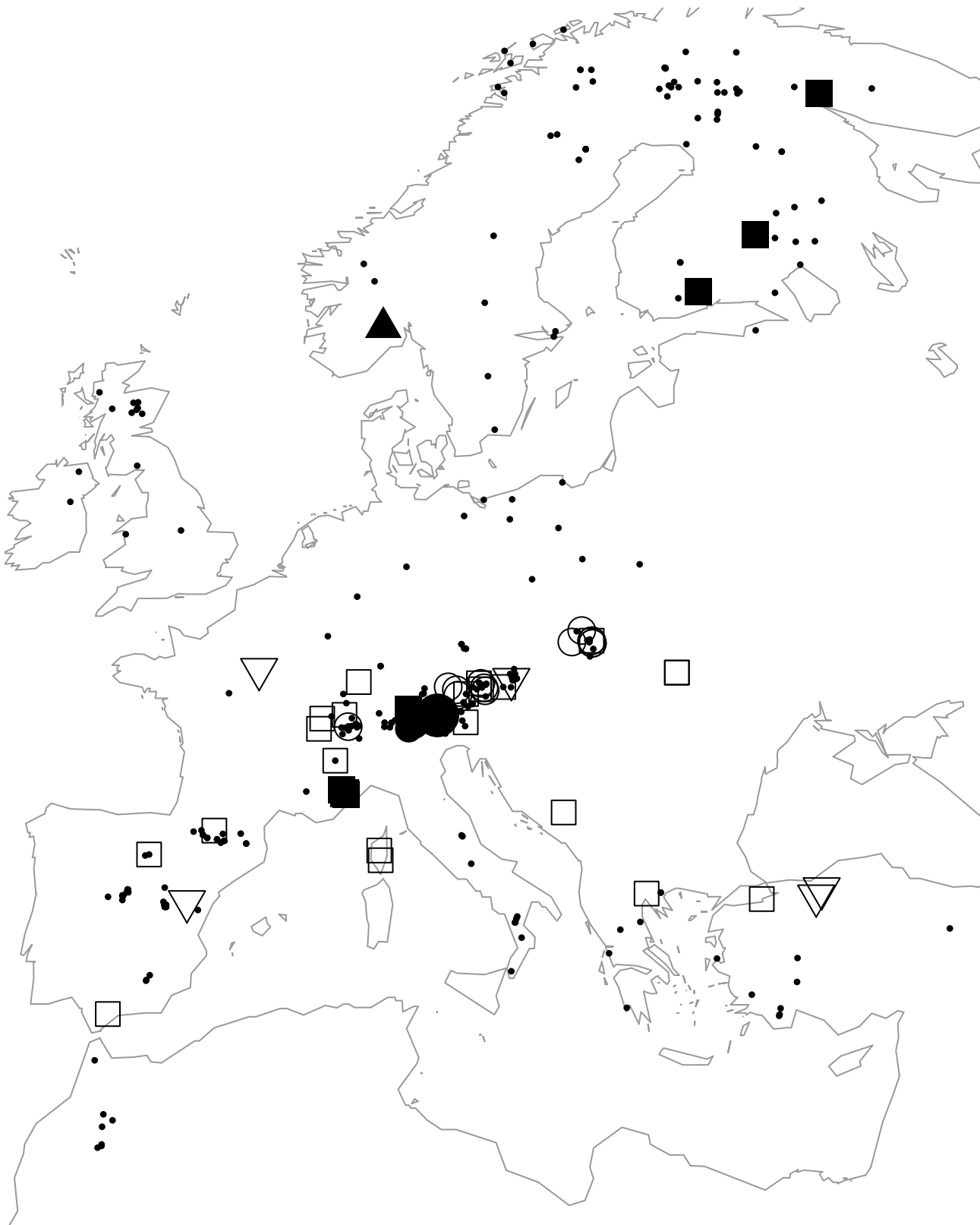
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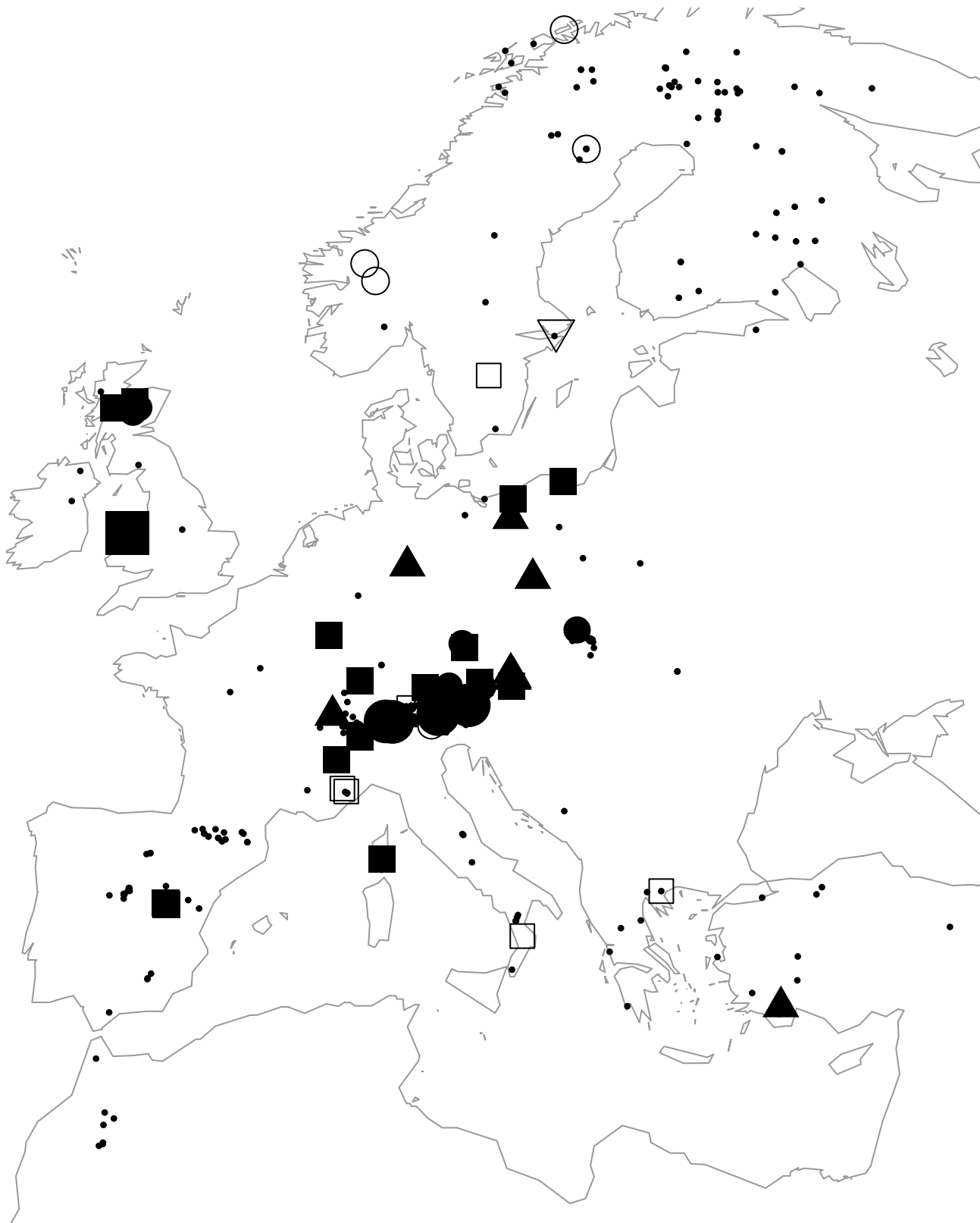
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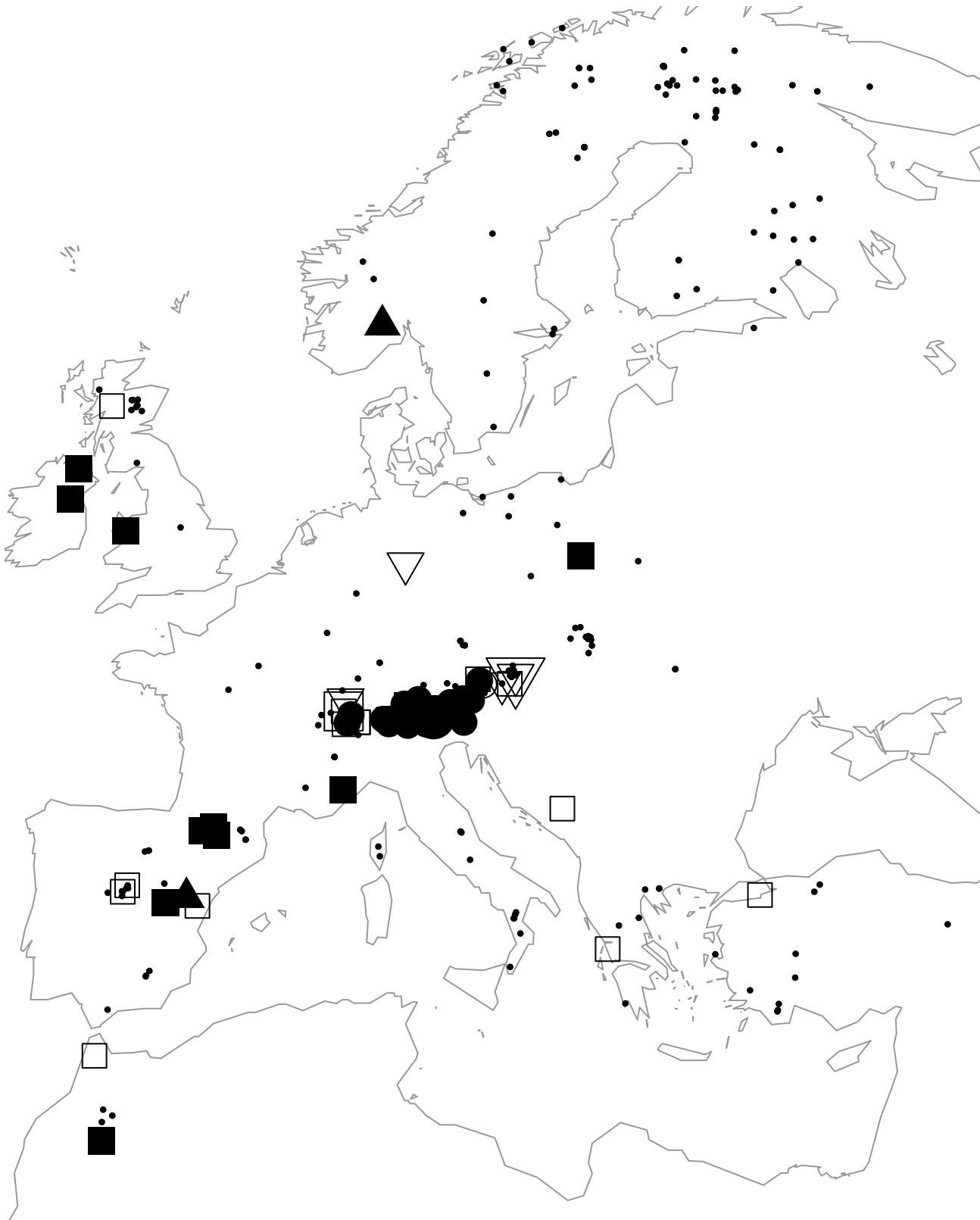
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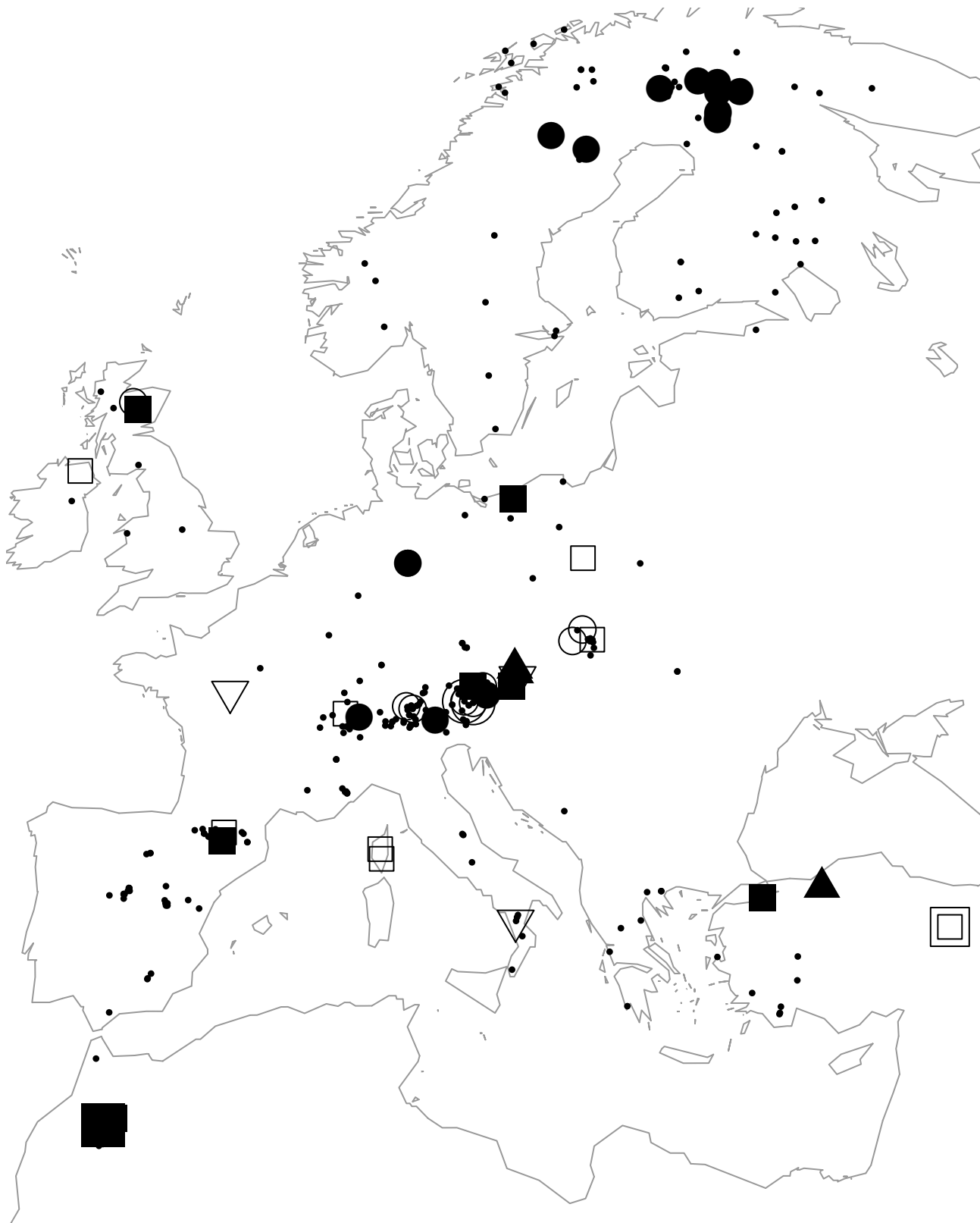
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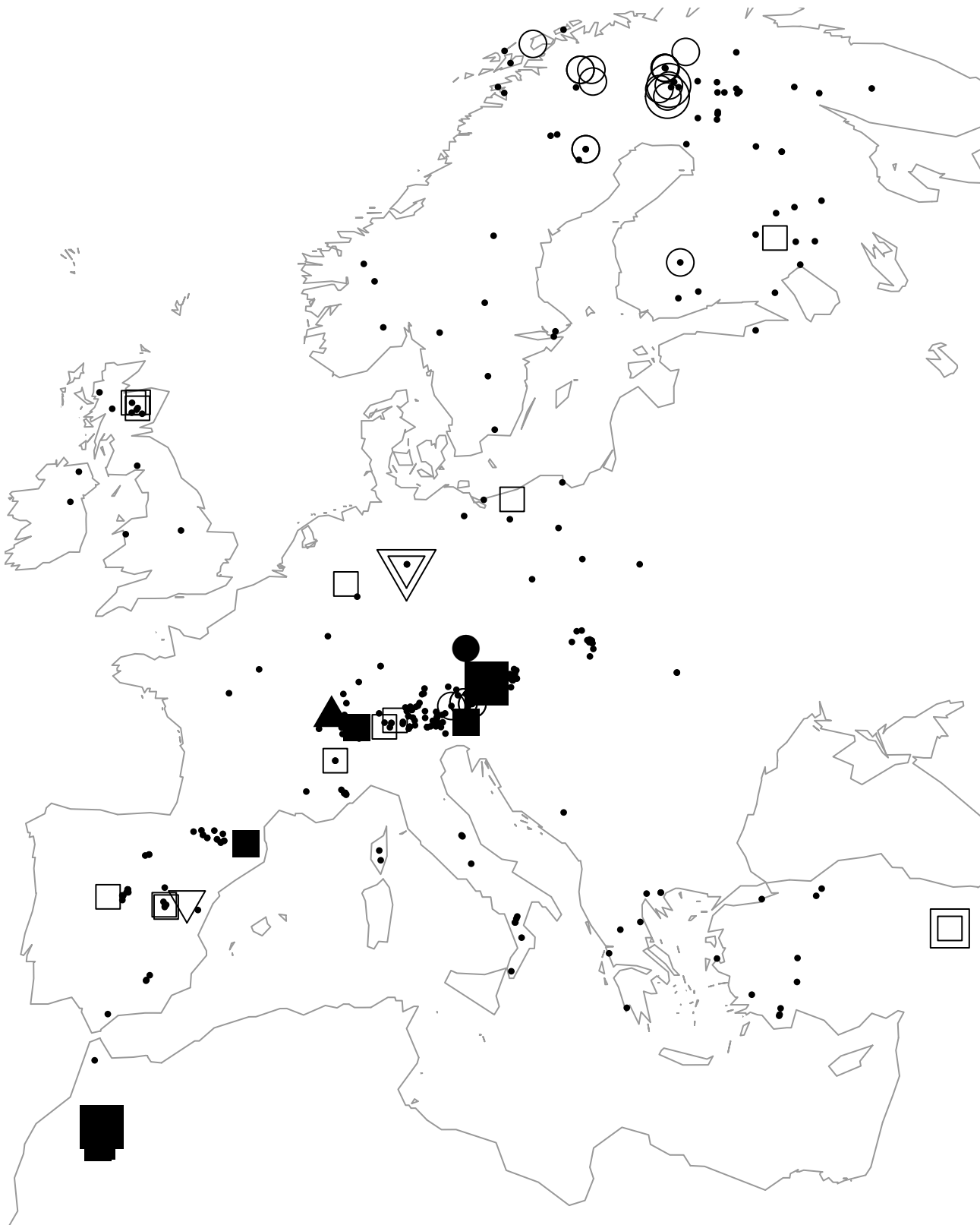
growth anomalies1784



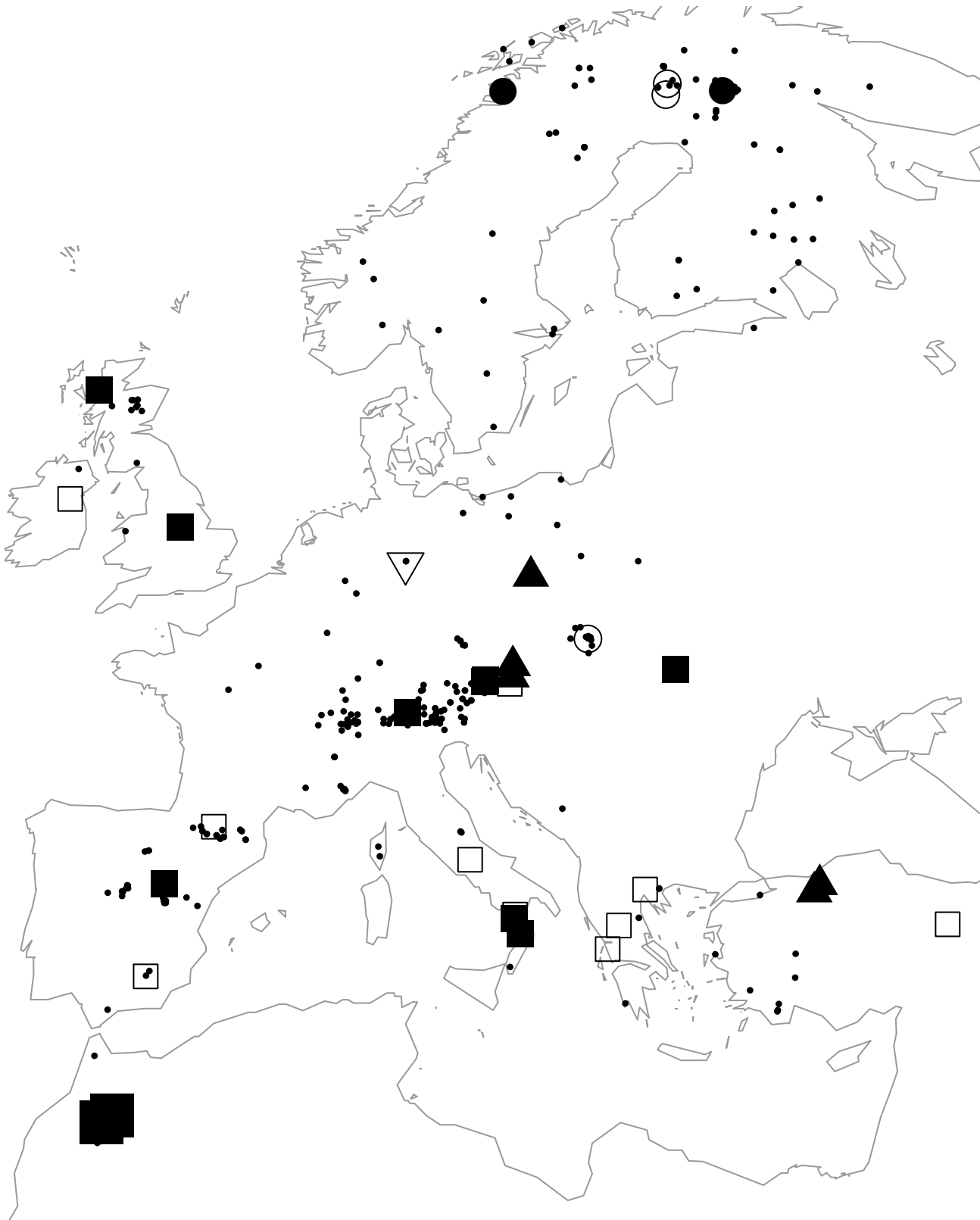
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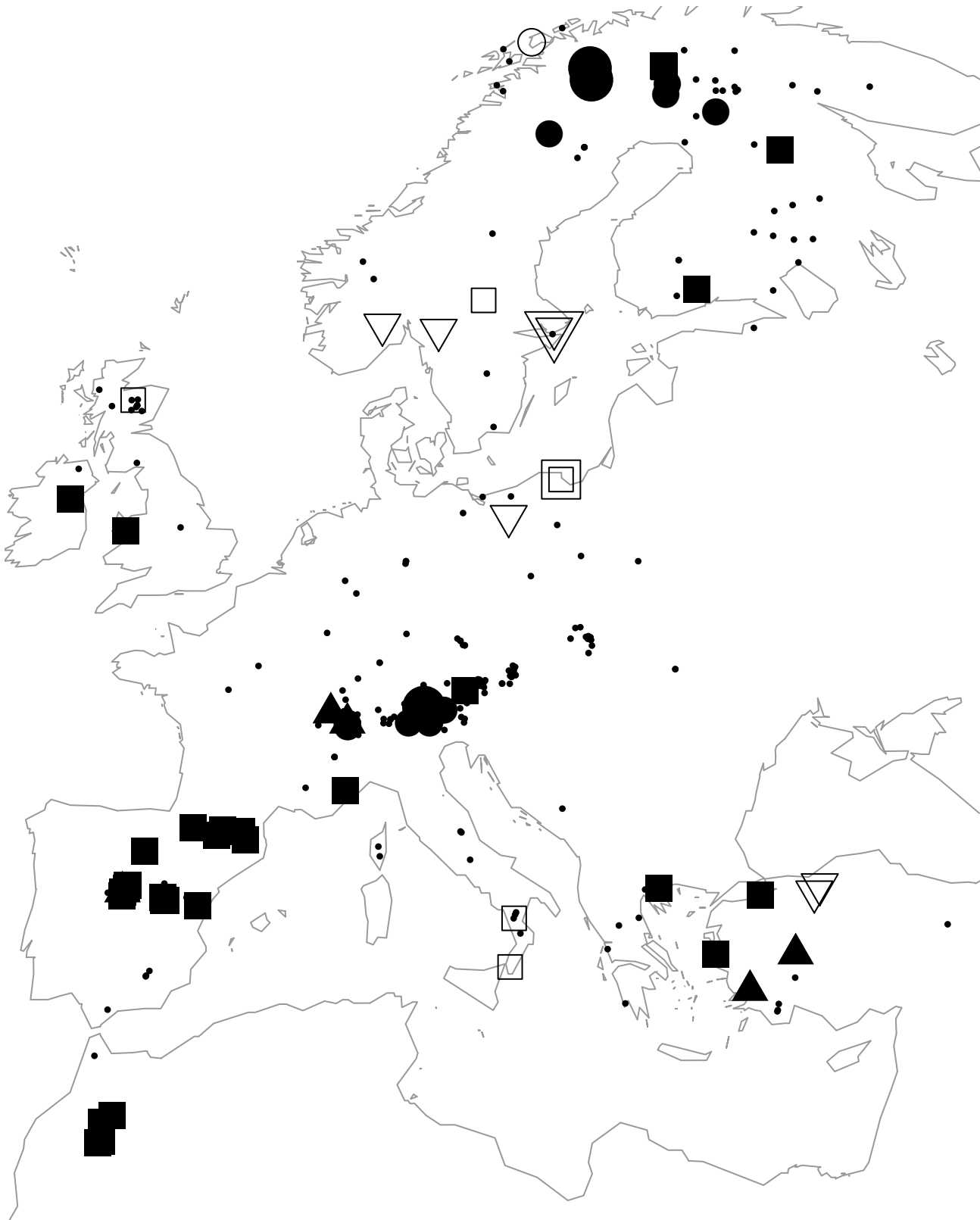
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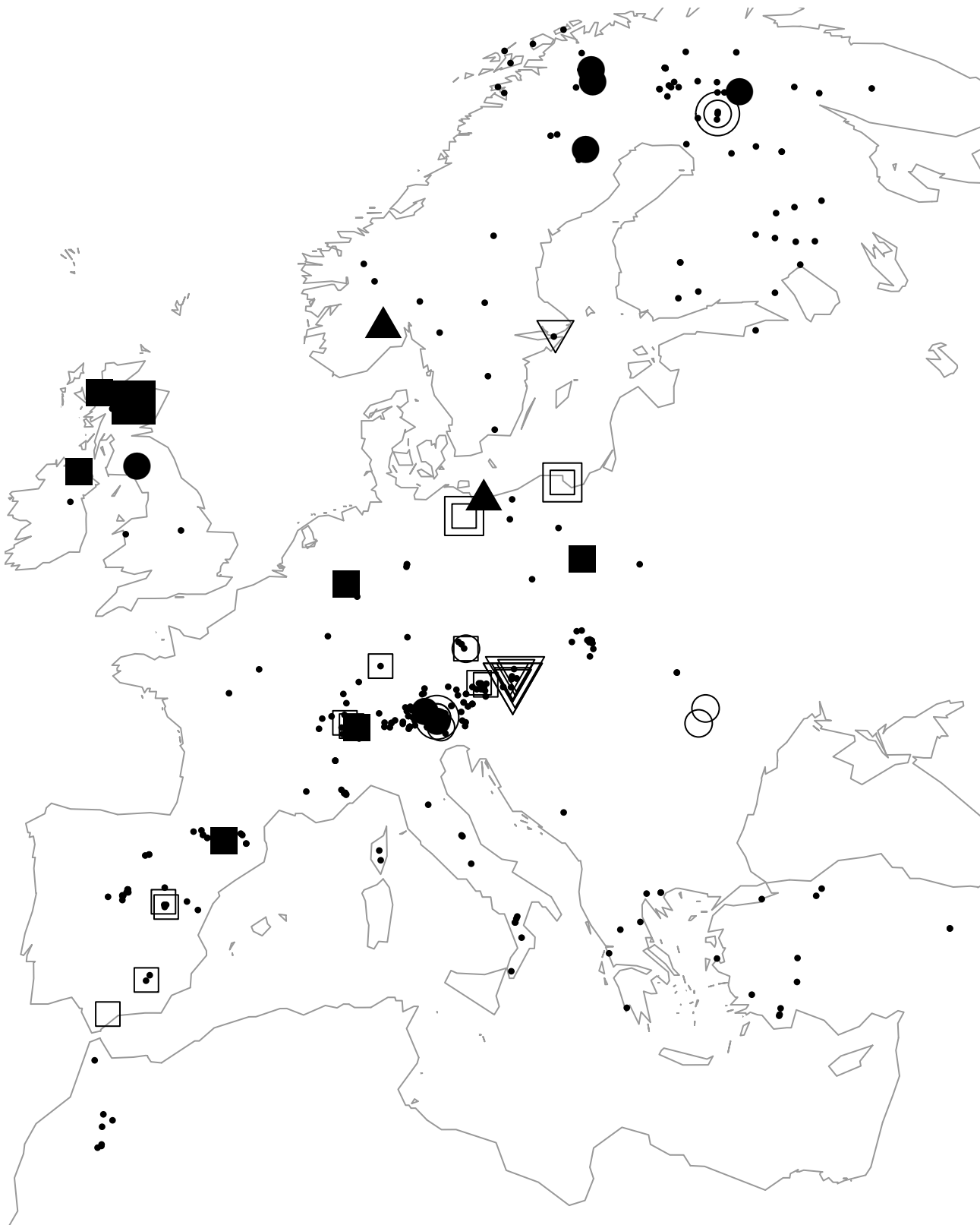
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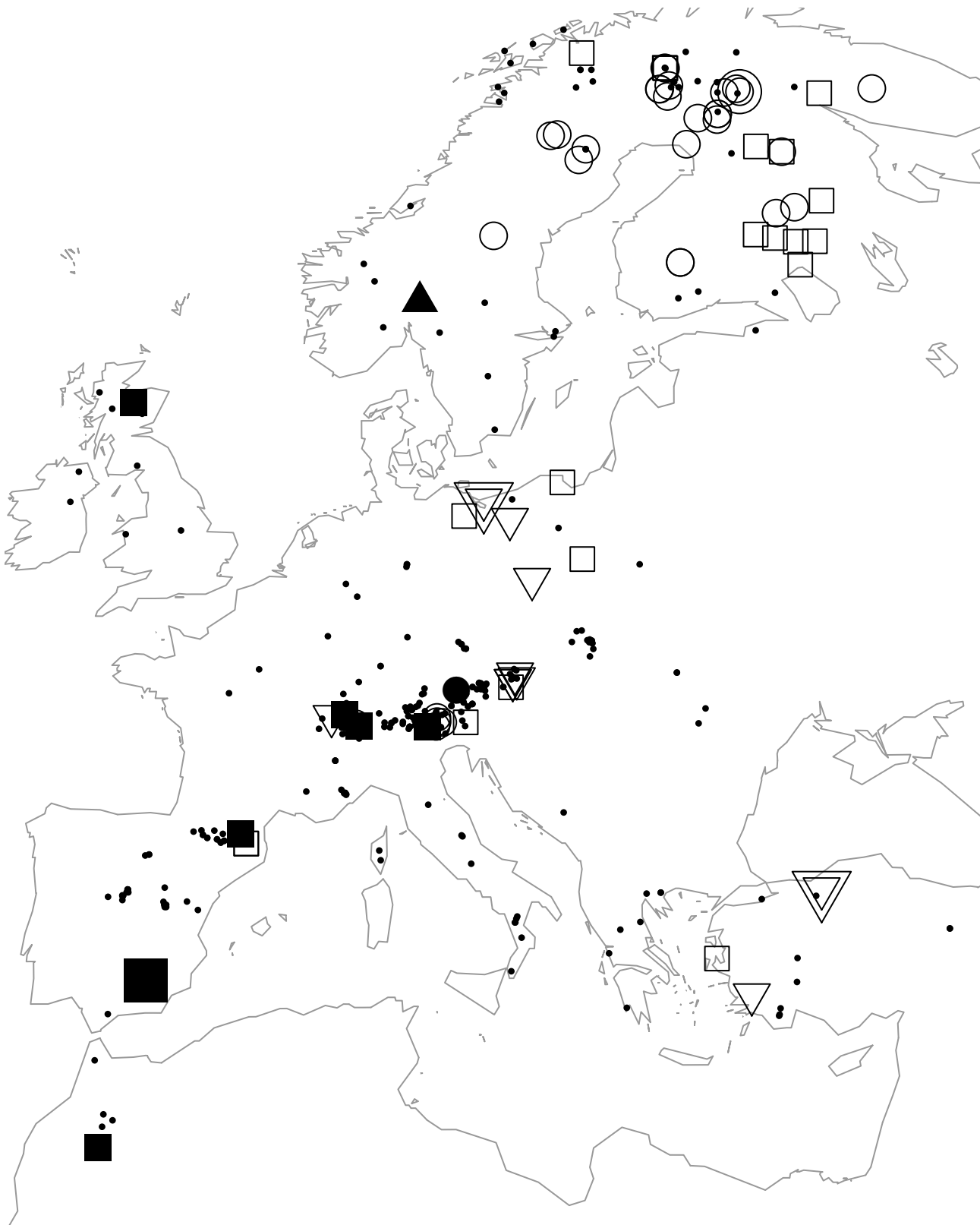
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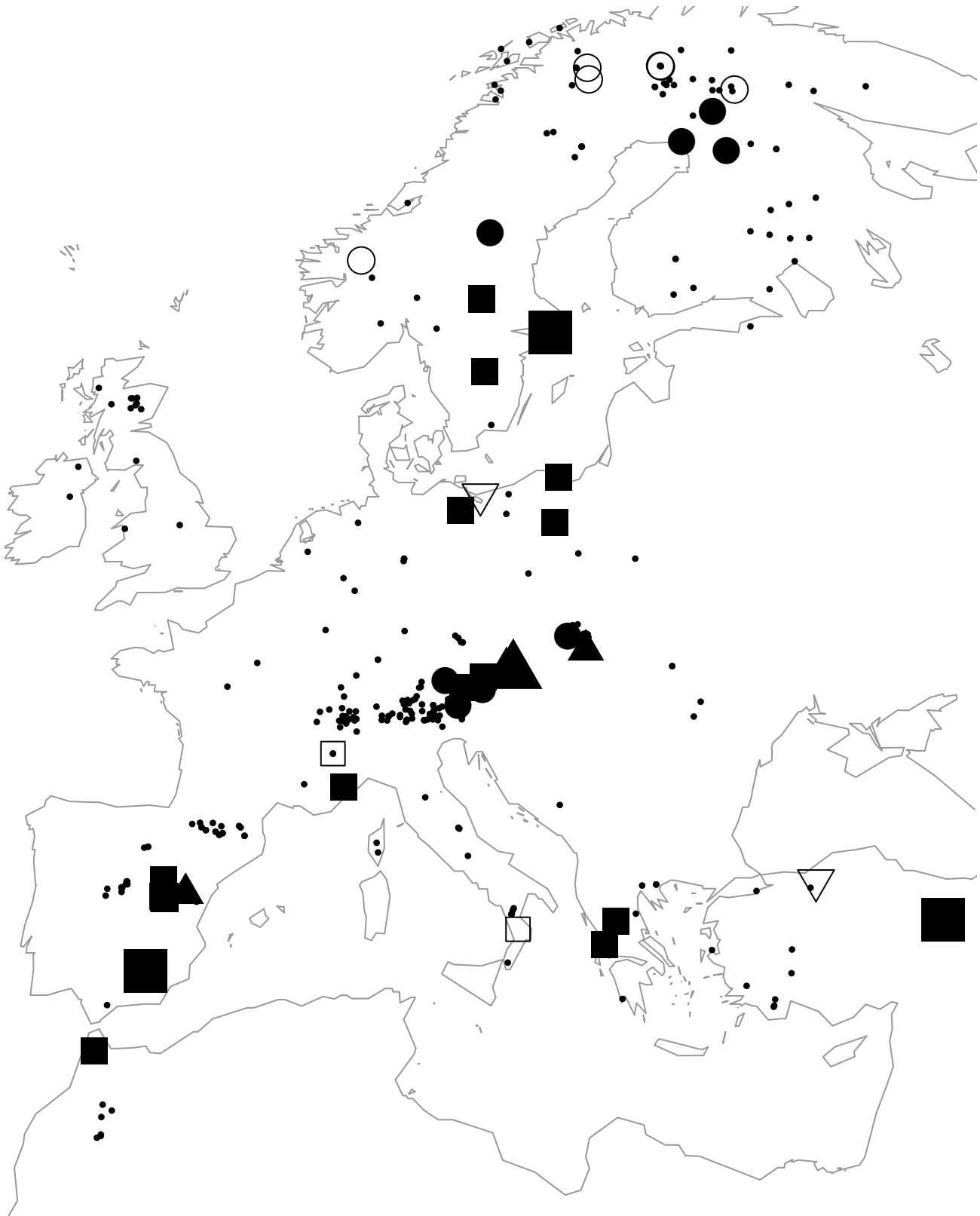
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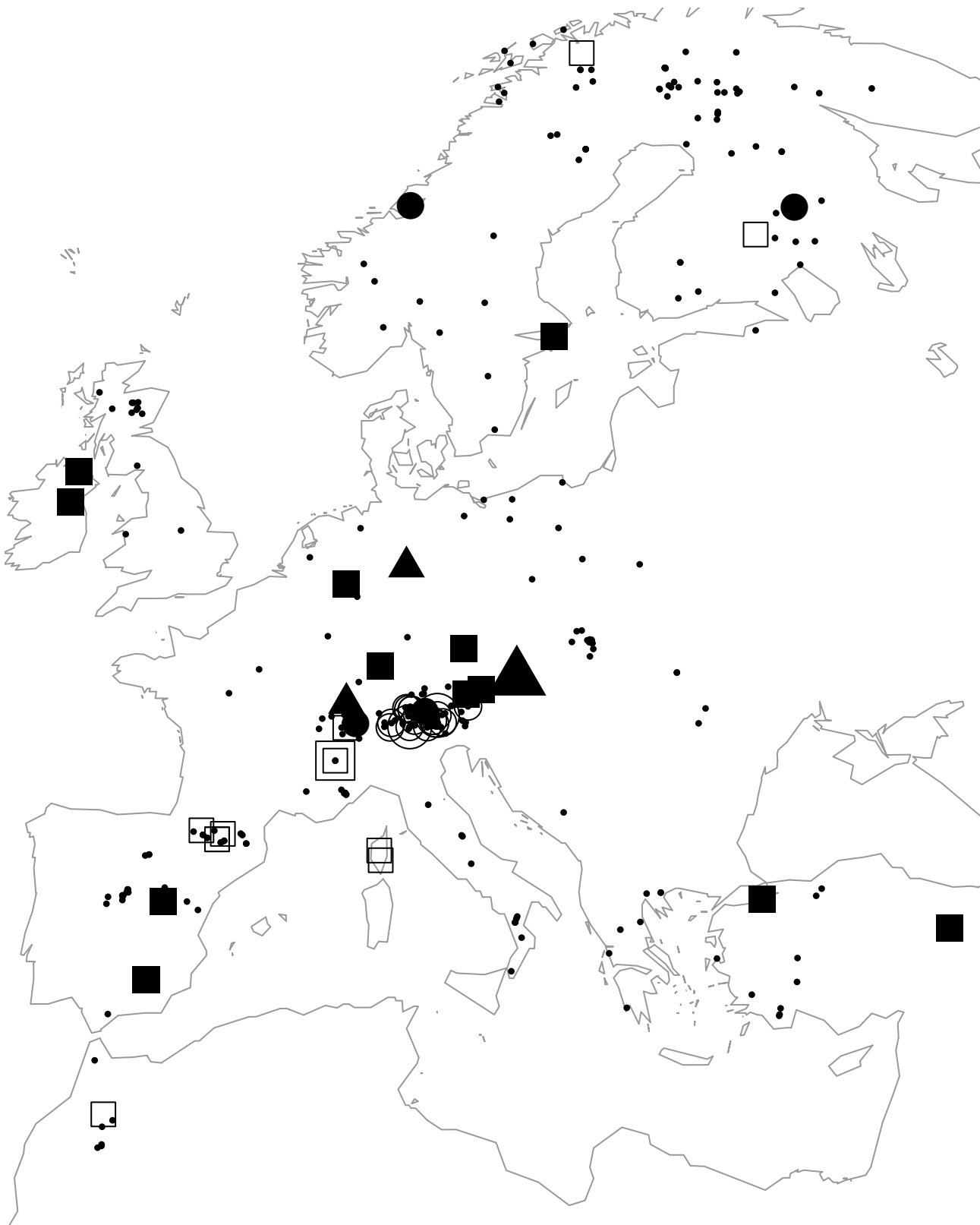
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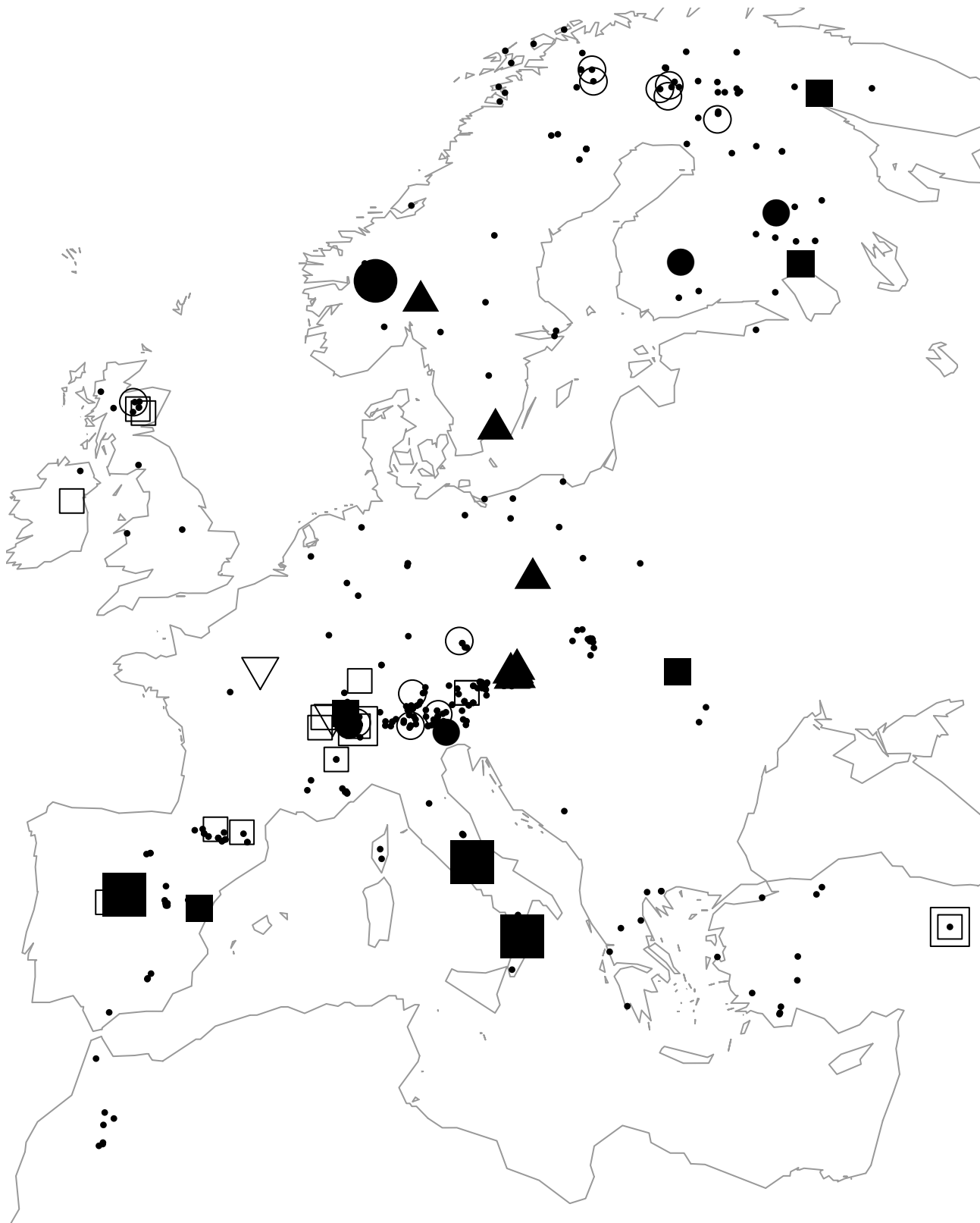
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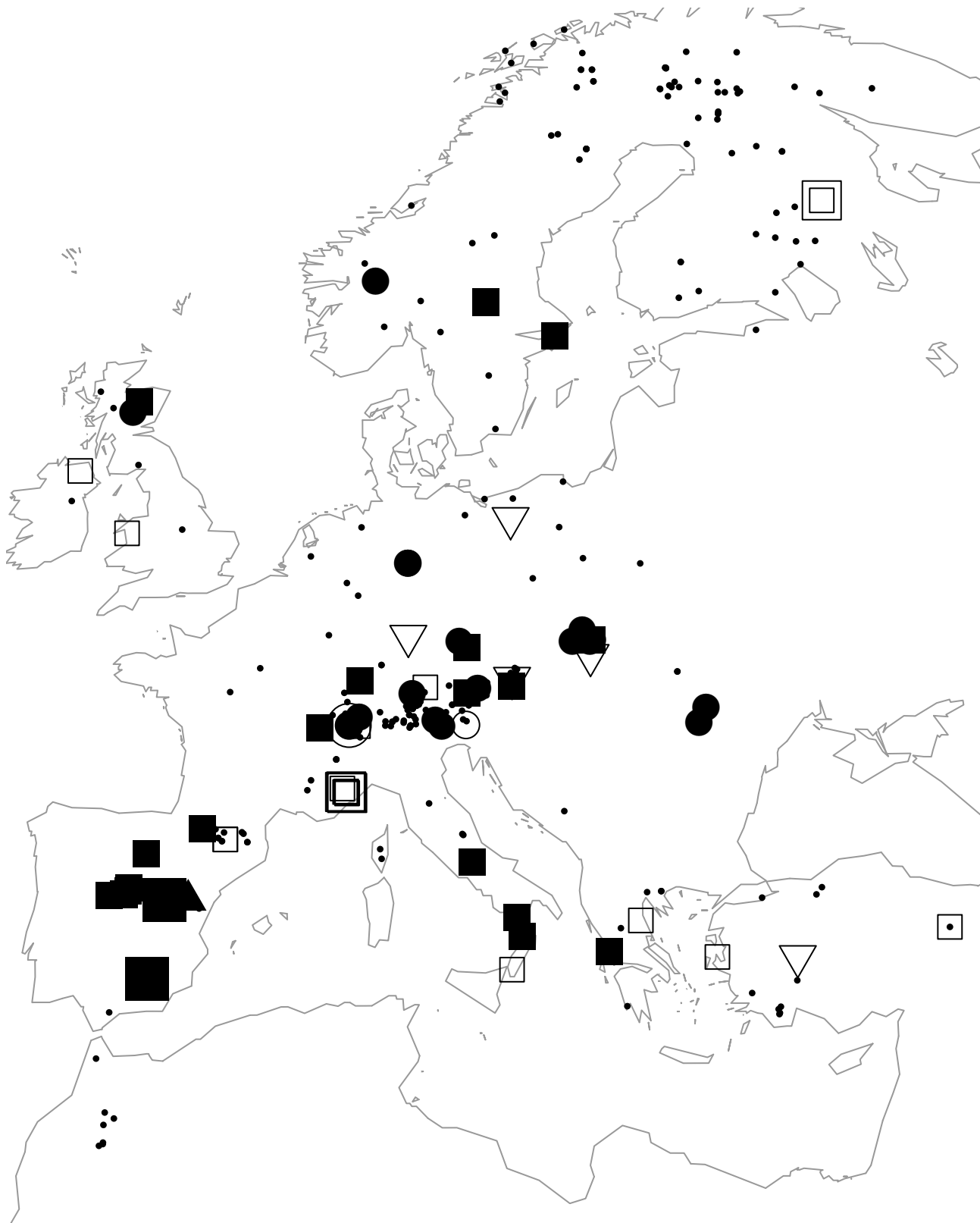
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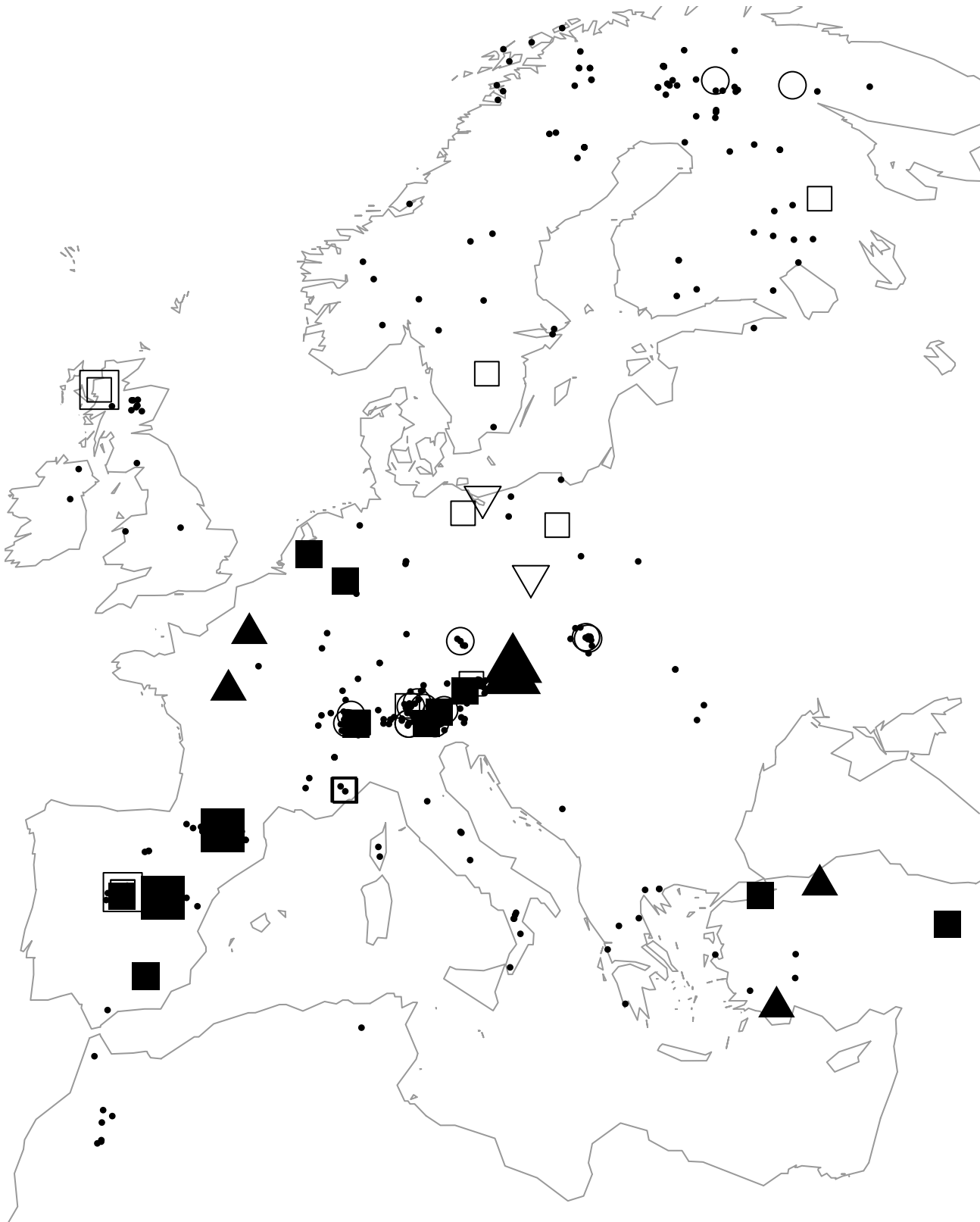
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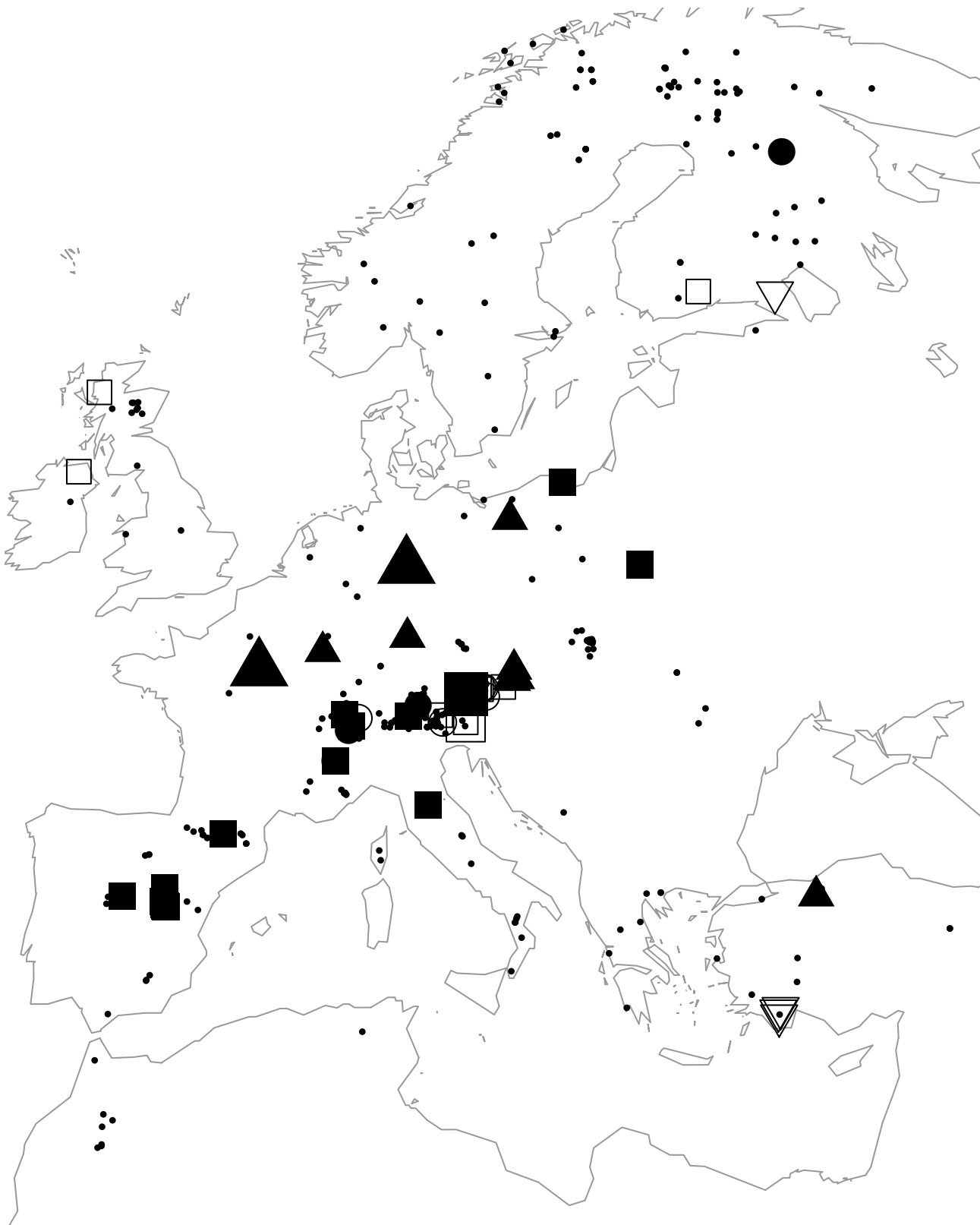
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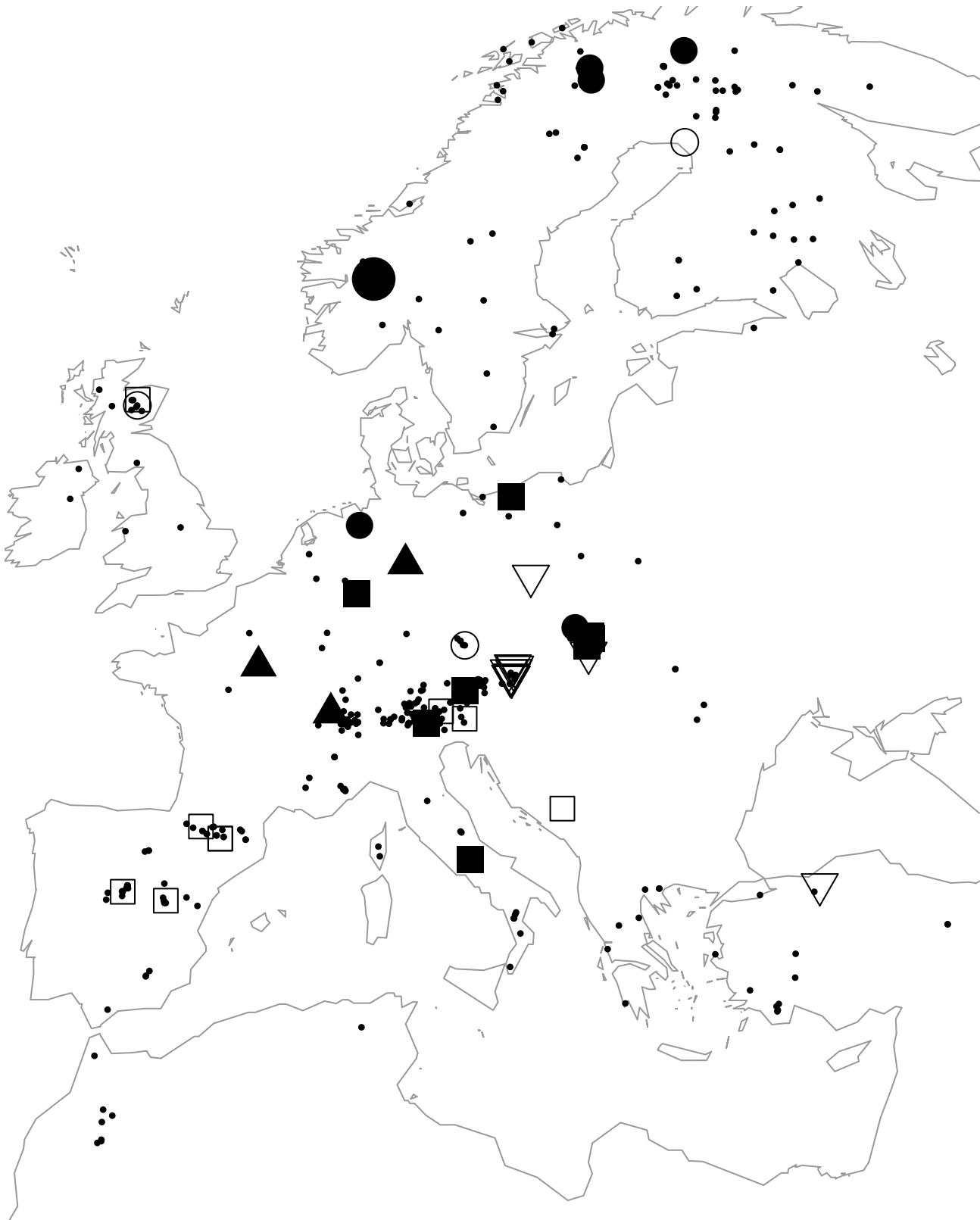
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growth anomalies1796



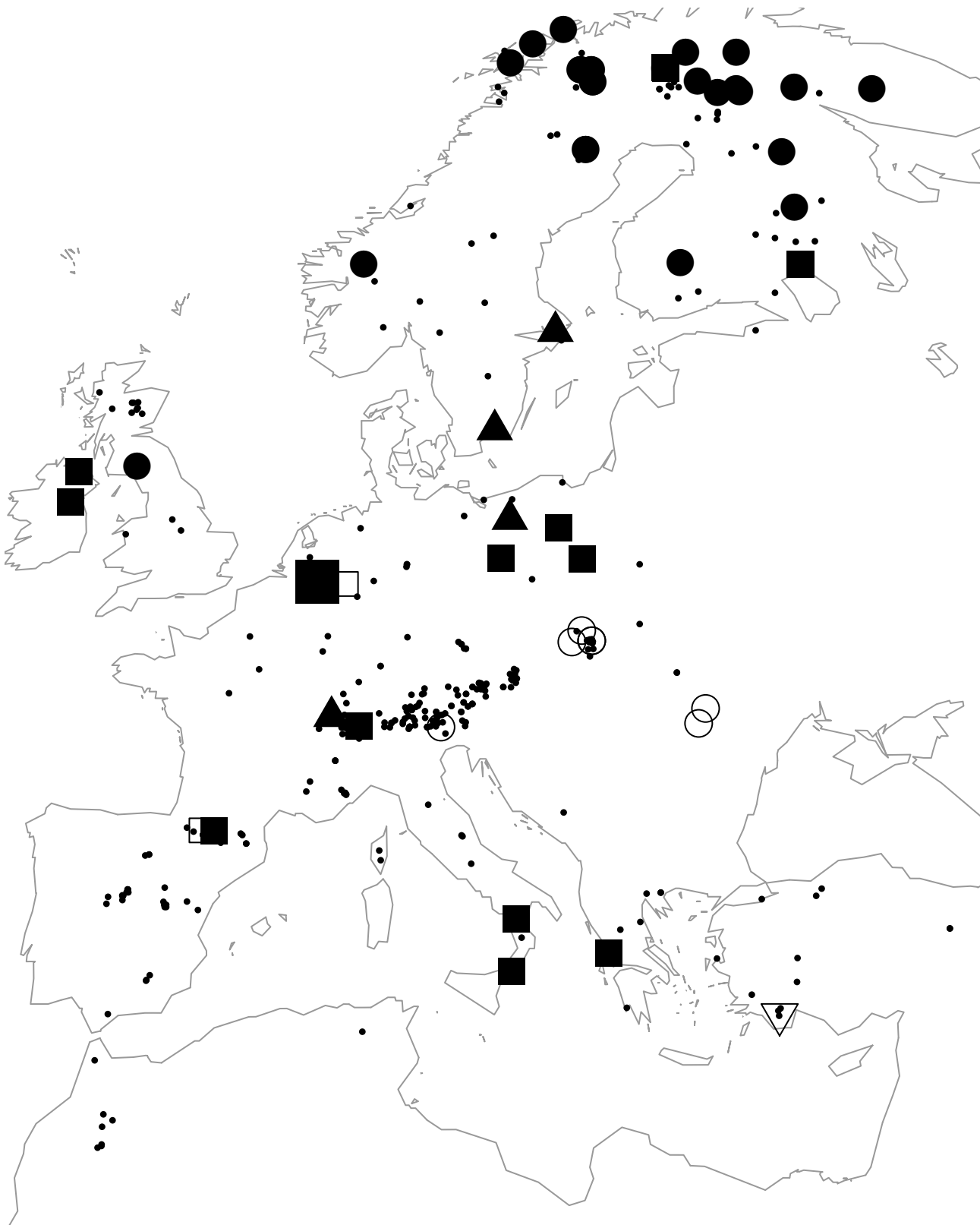
growth anomalies1797



growth anomalies1798



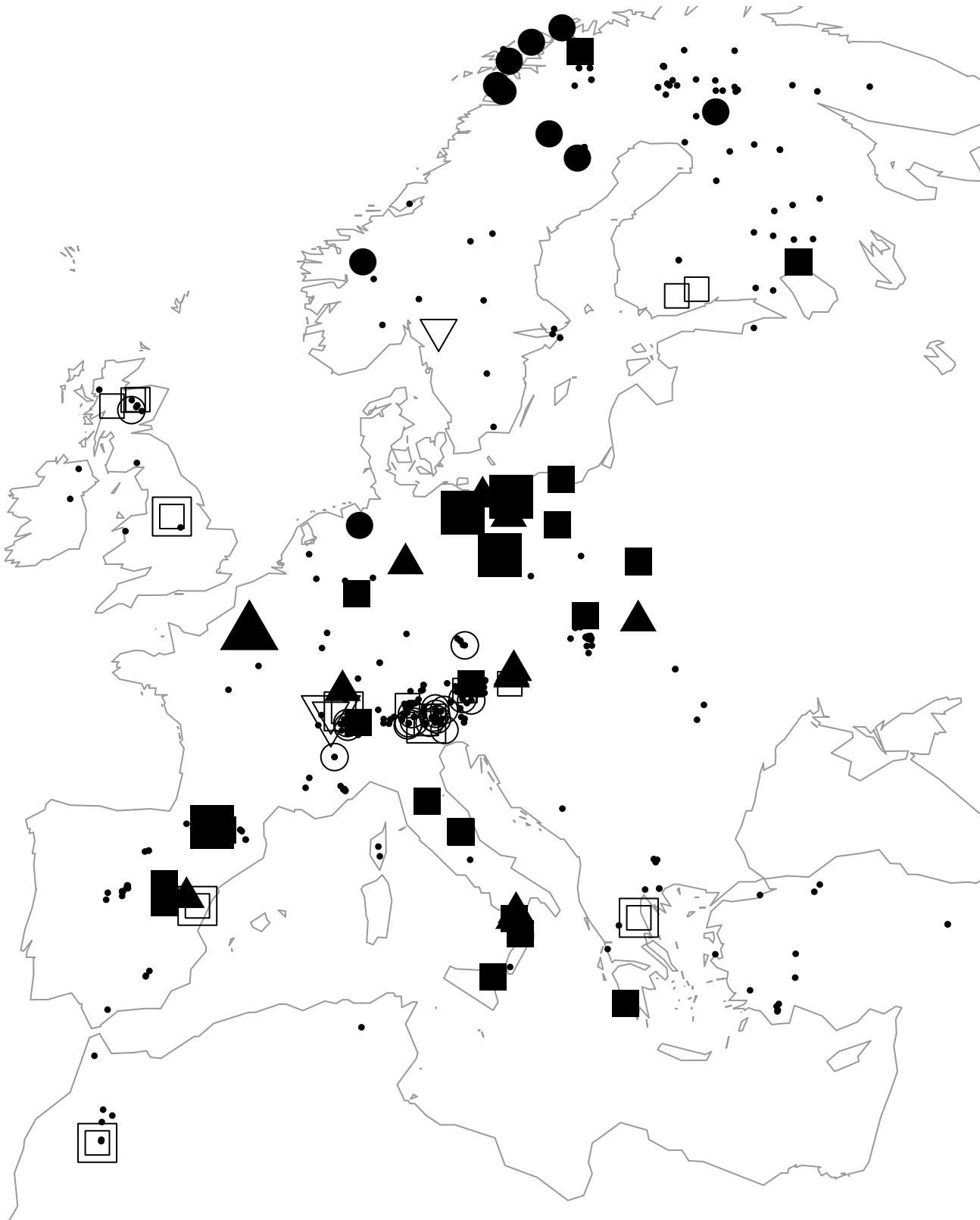
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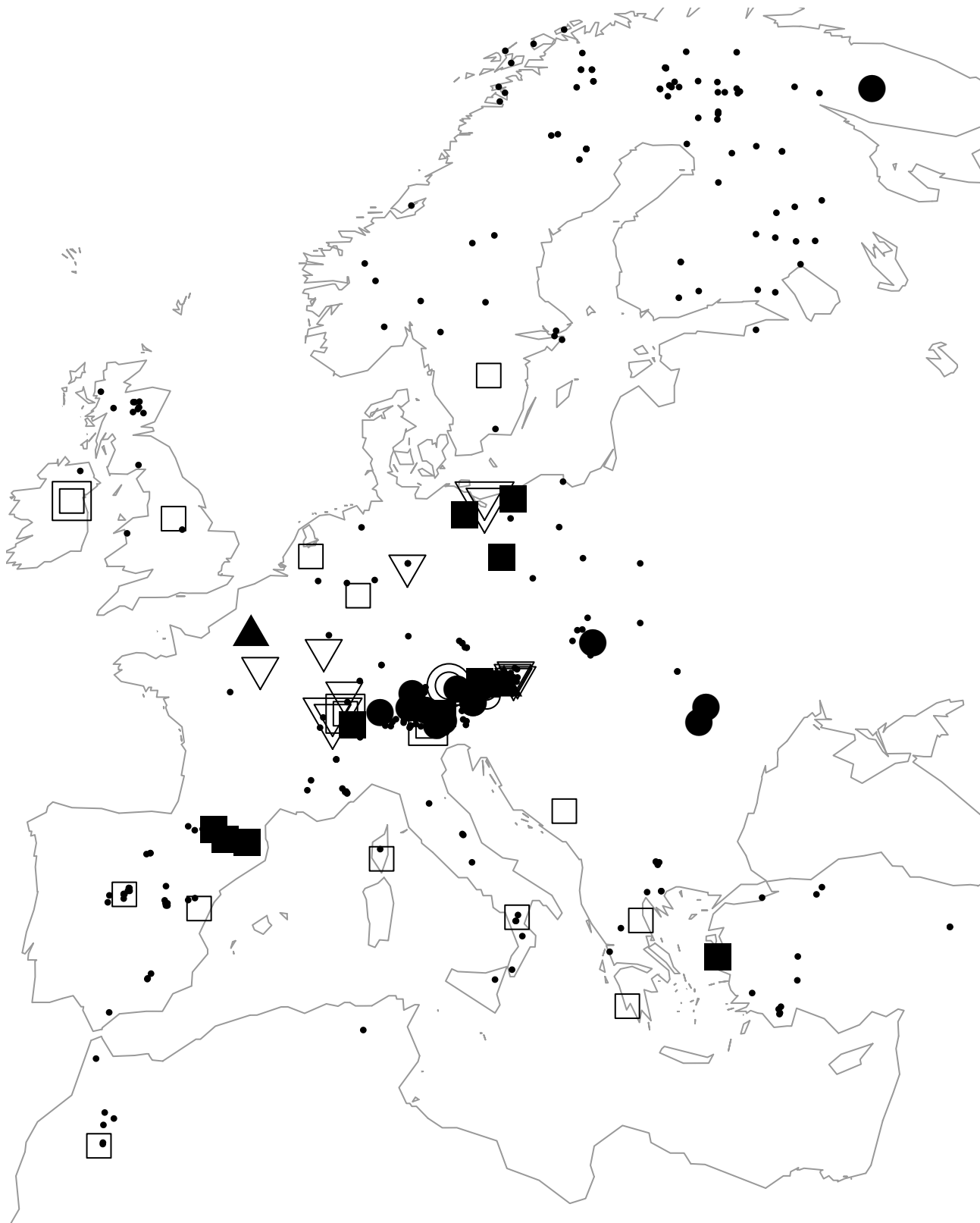
growth anomalies1800



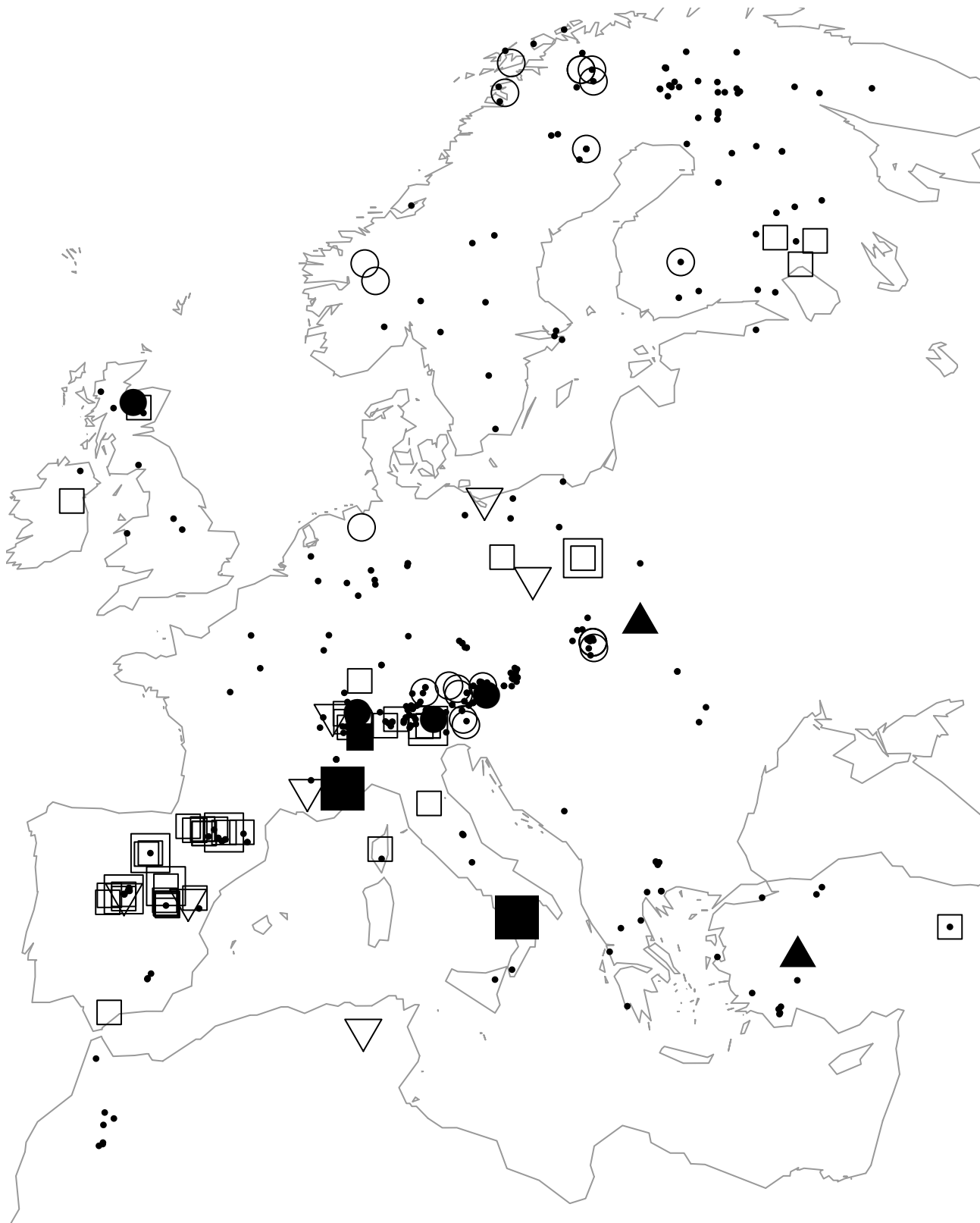
growth anomalies1801



growth anomalies1802



growth anomalies1803



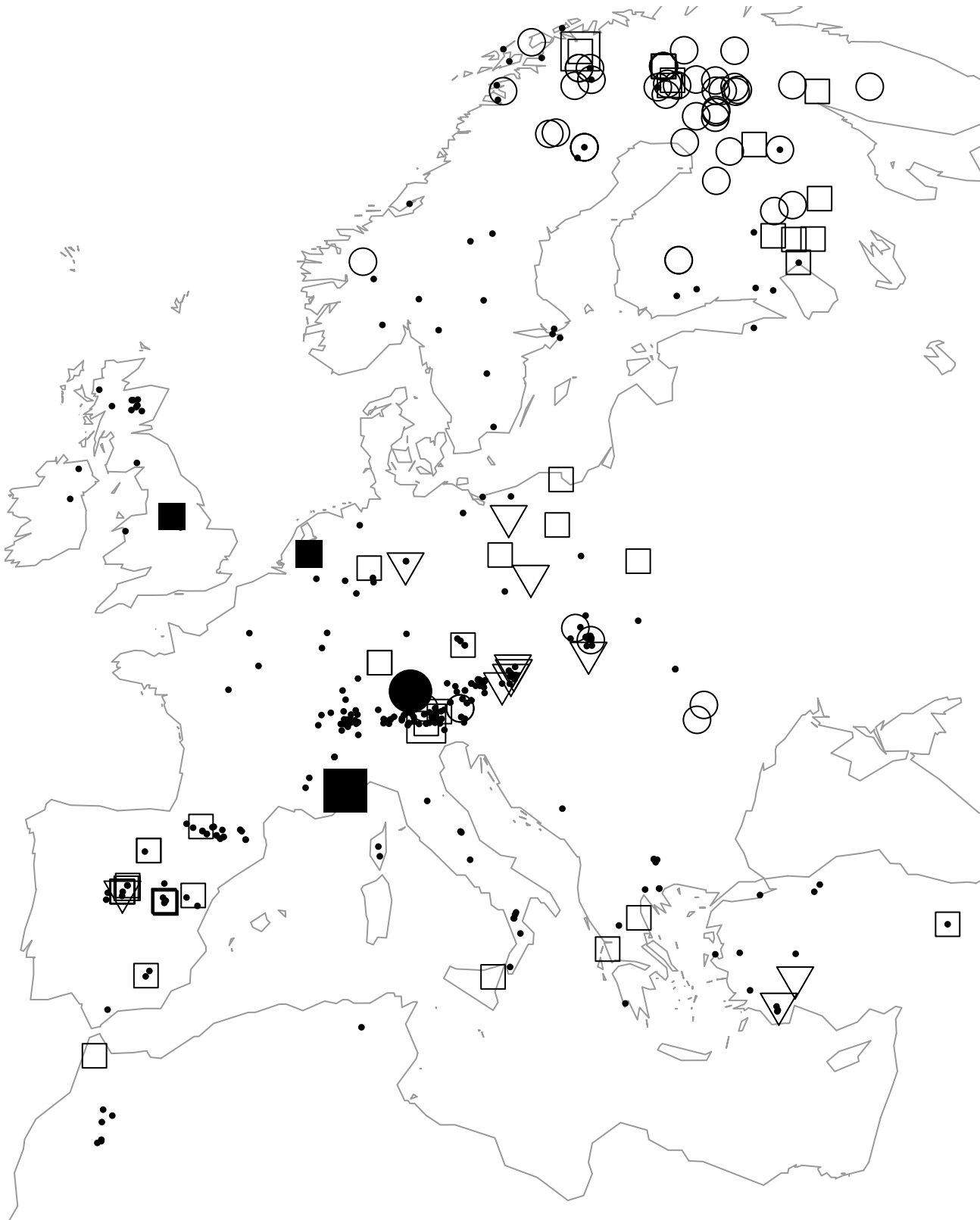
growth anomalies1804



growth anomalies1805



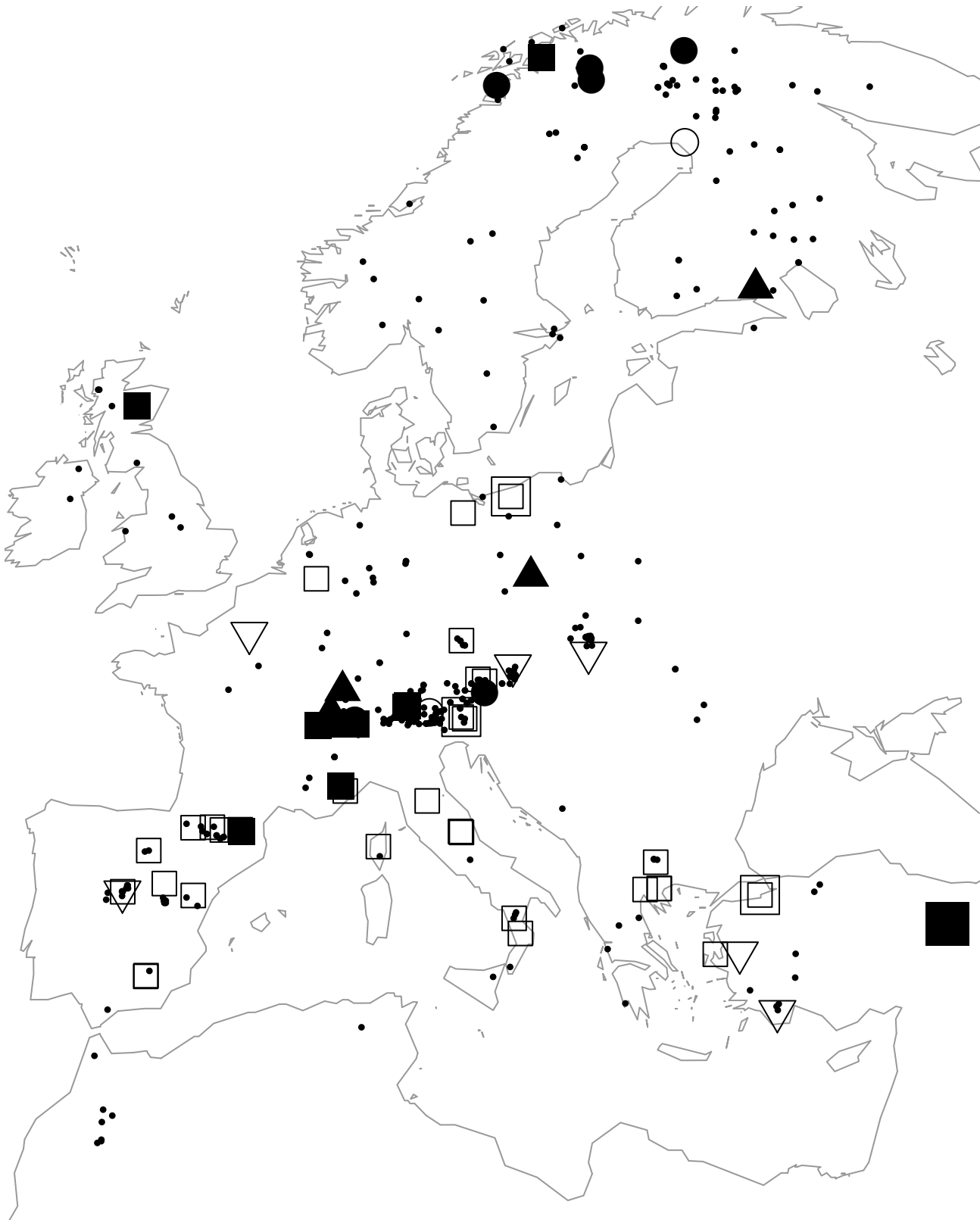
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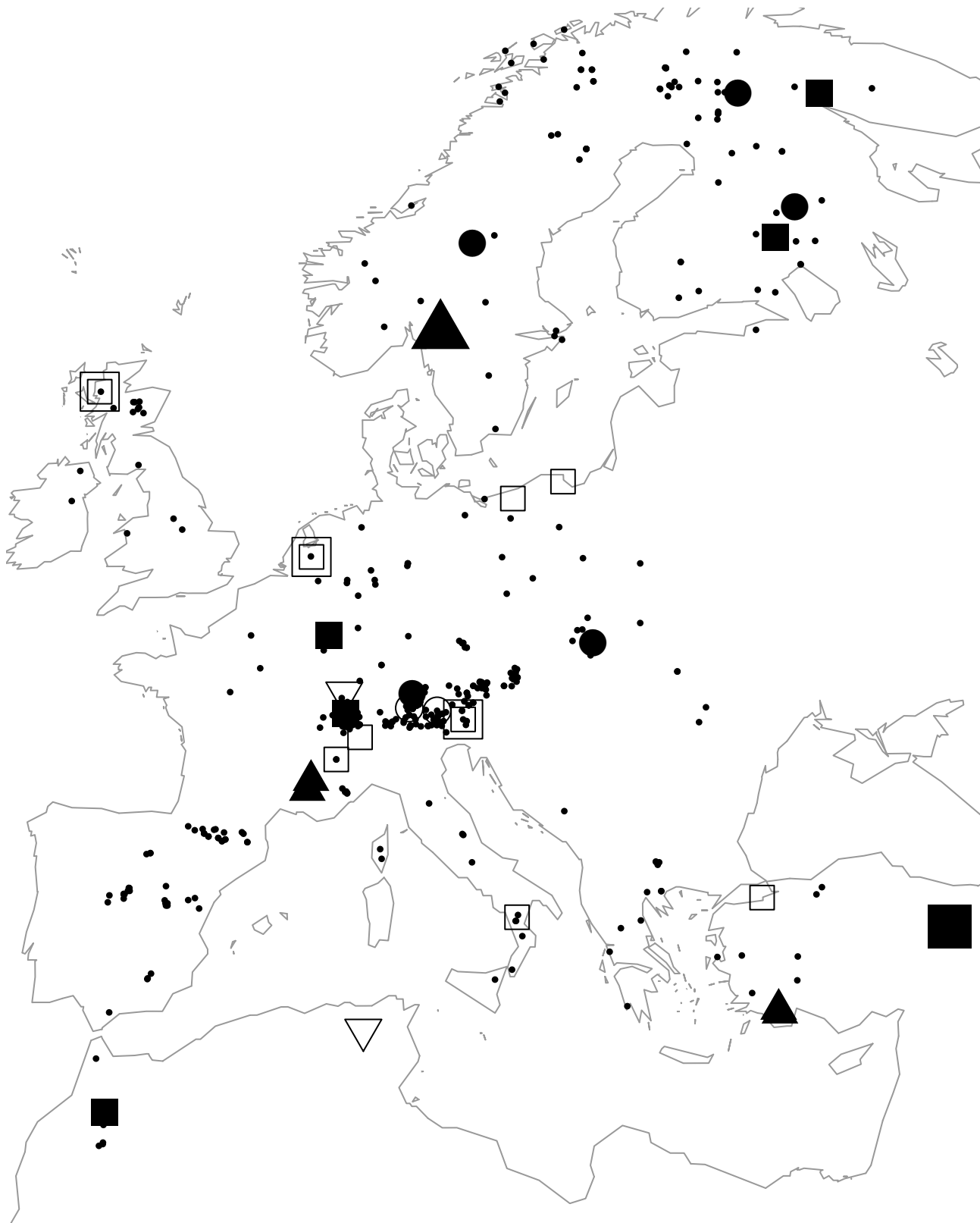
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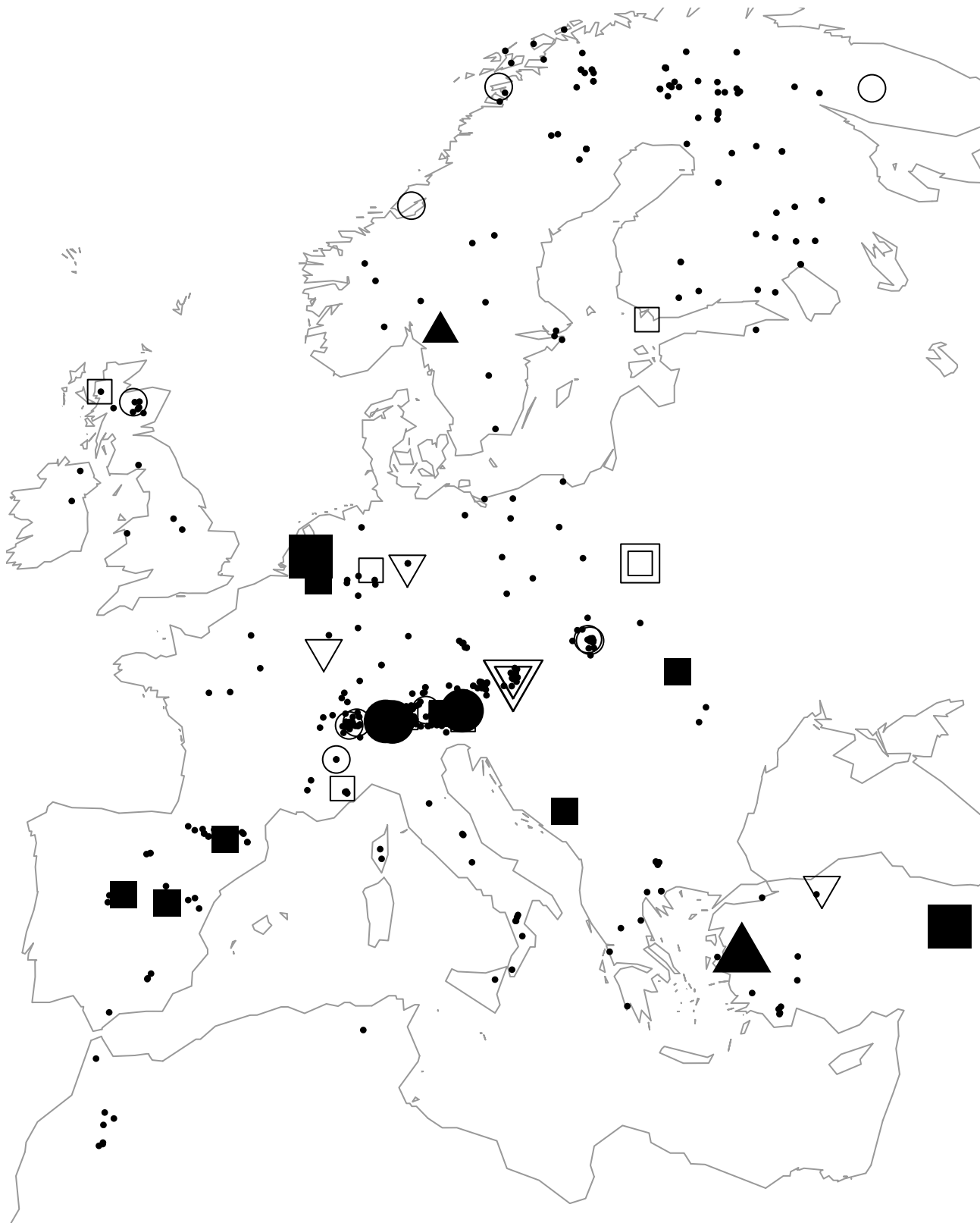
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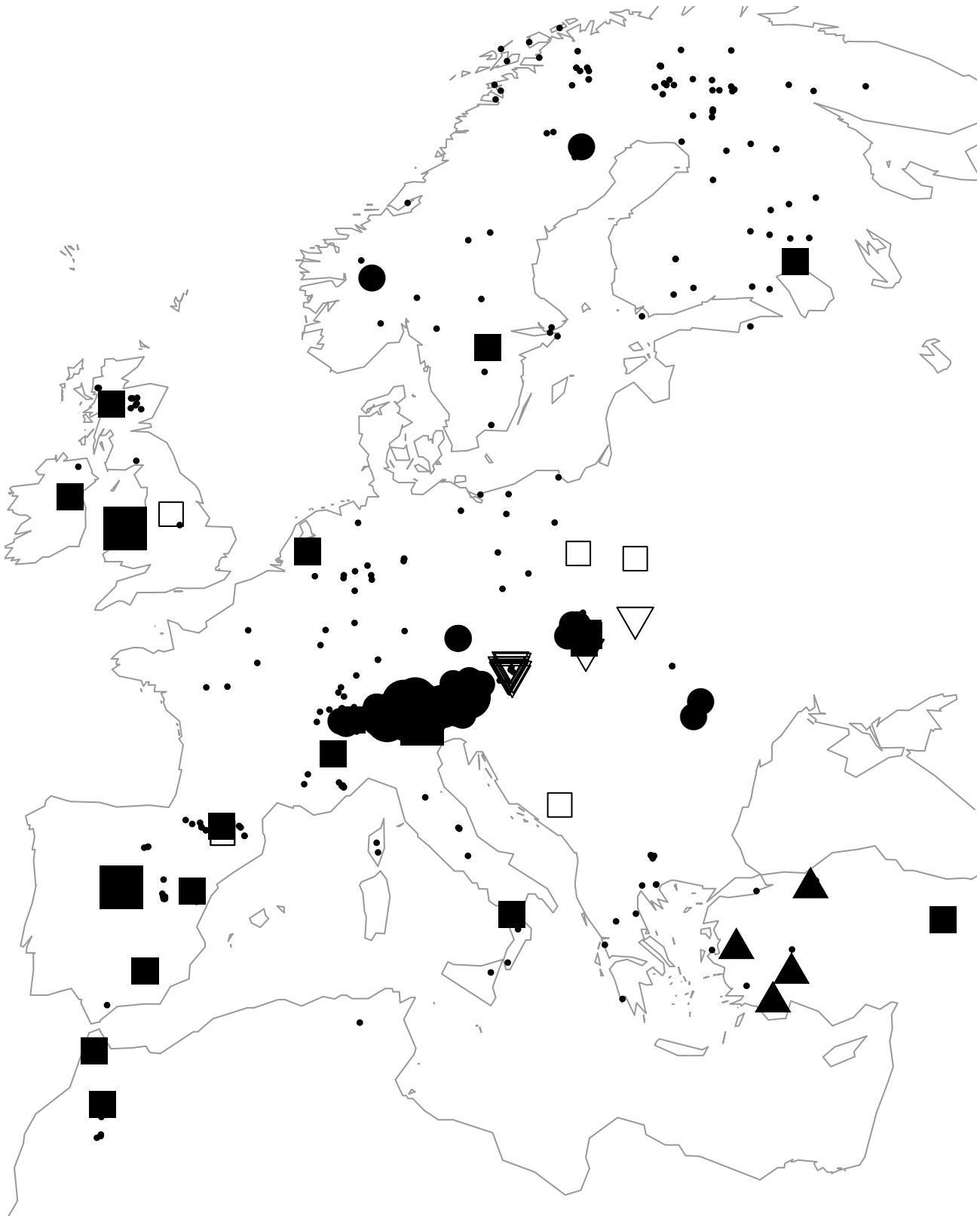
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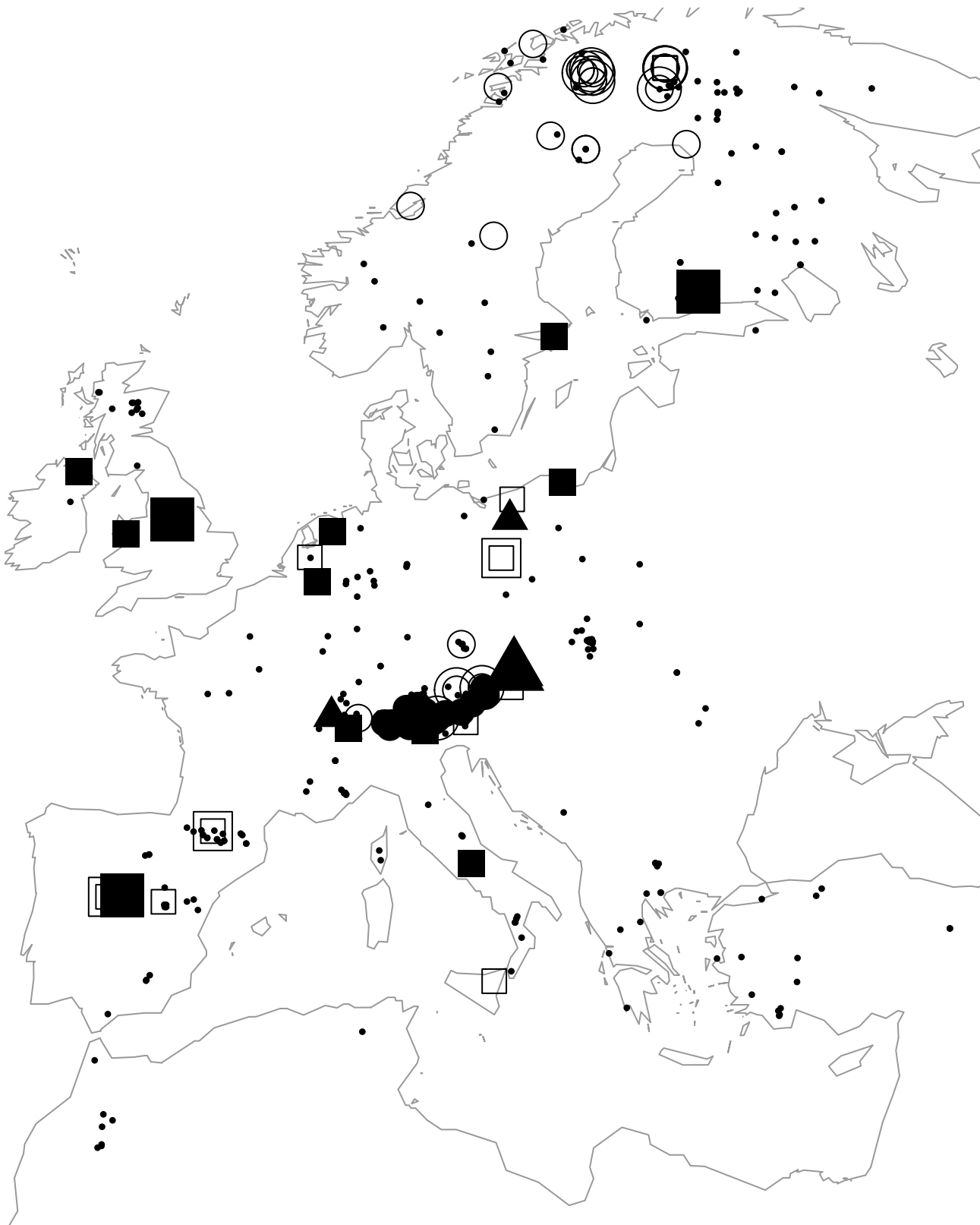
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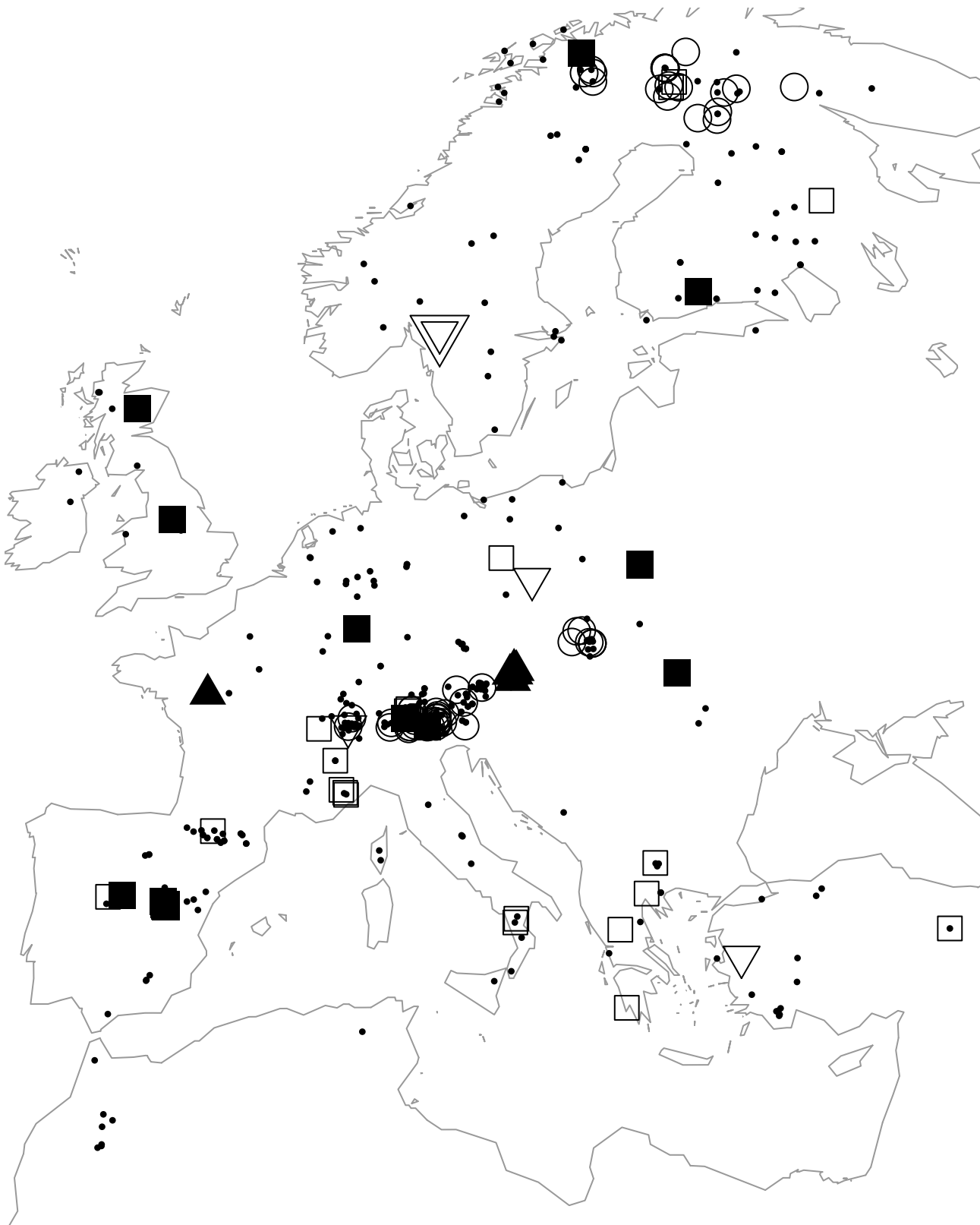
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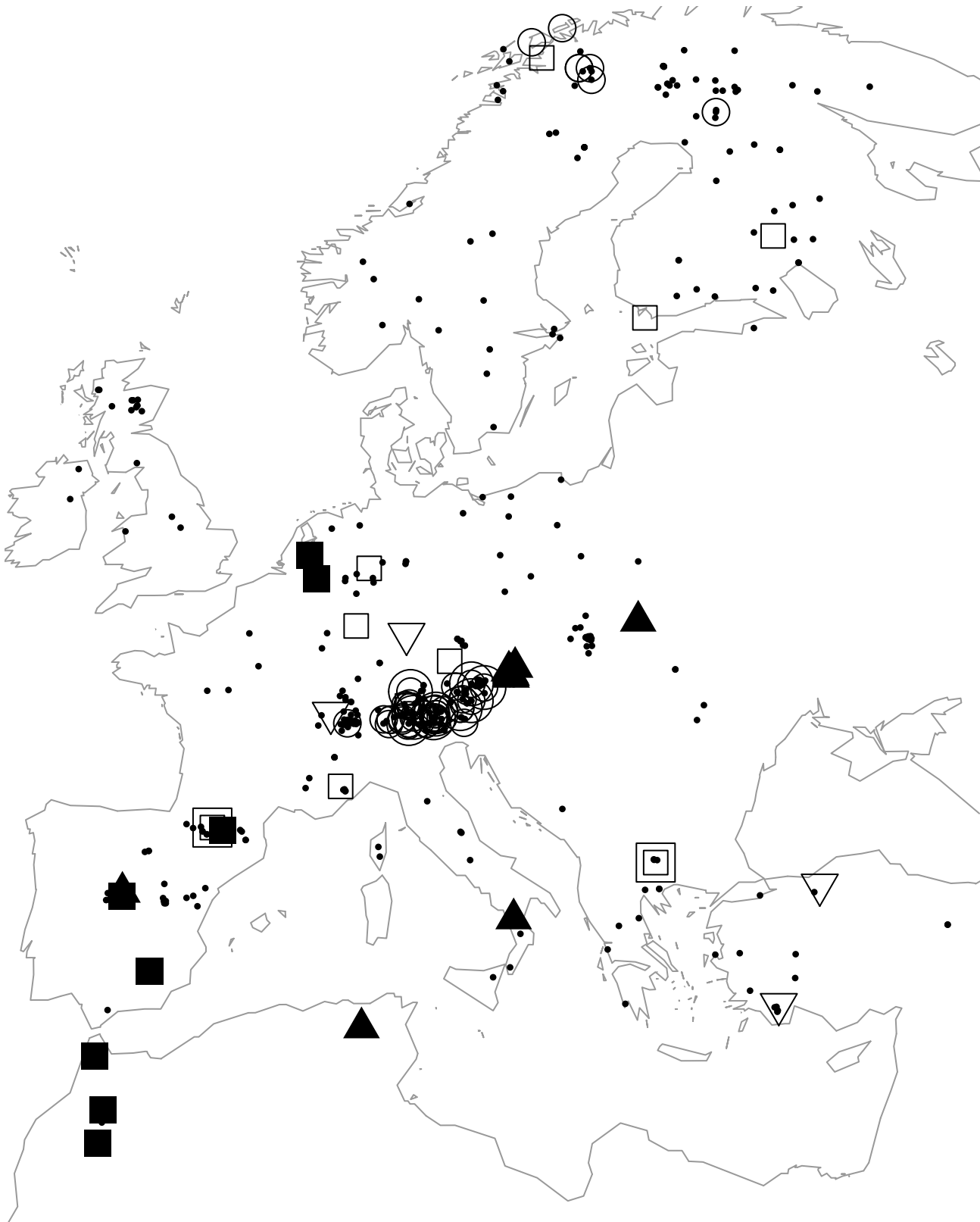
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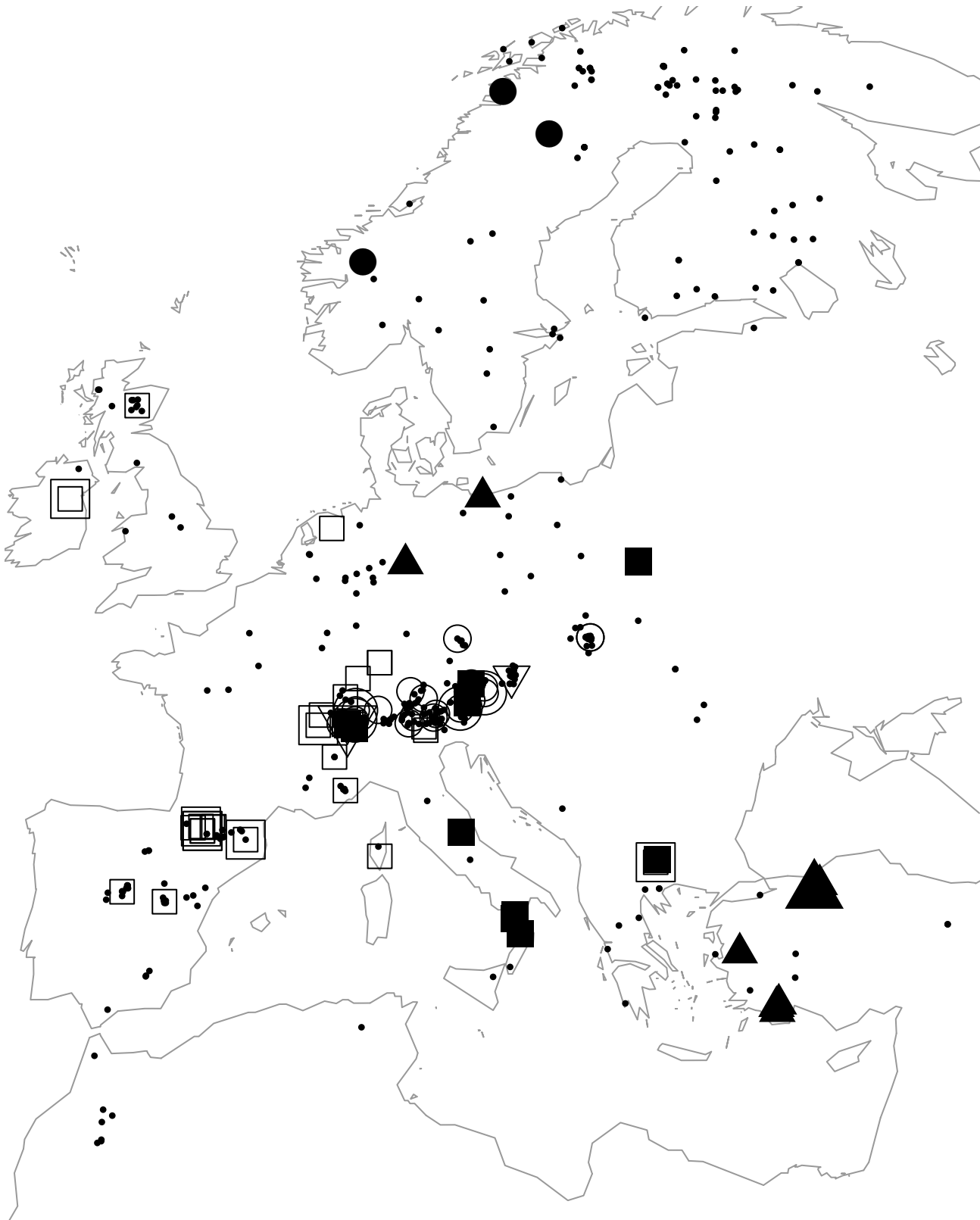
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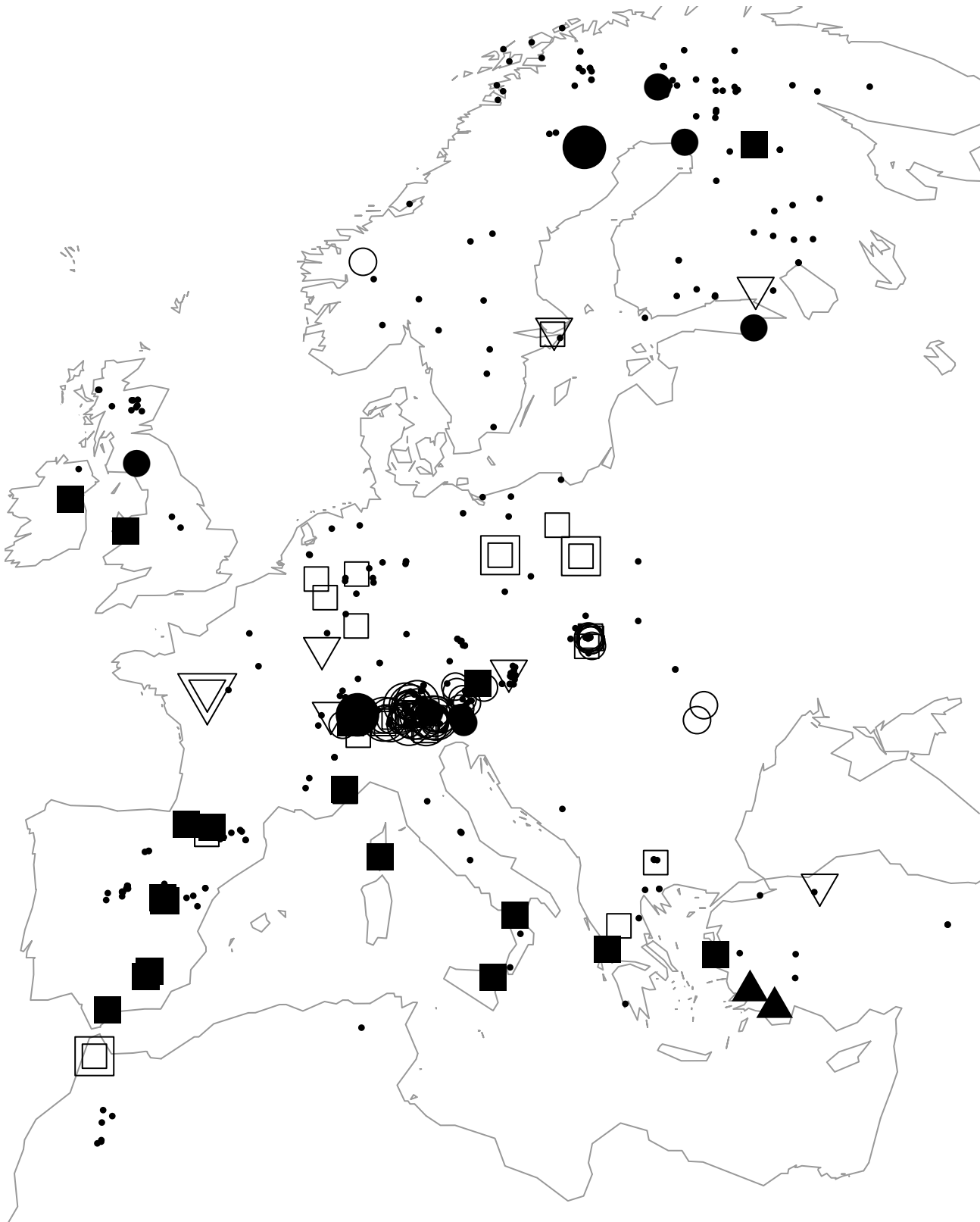
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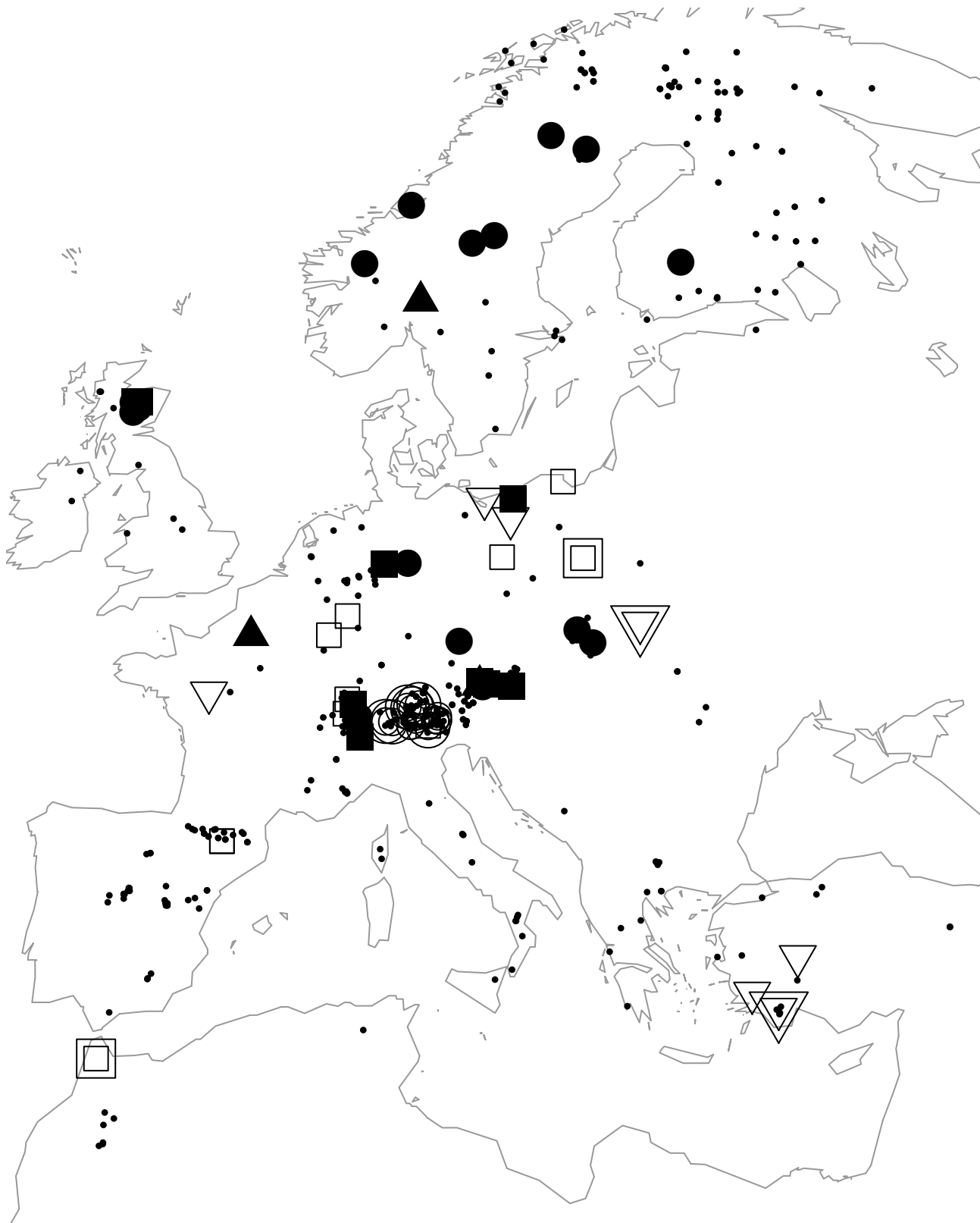
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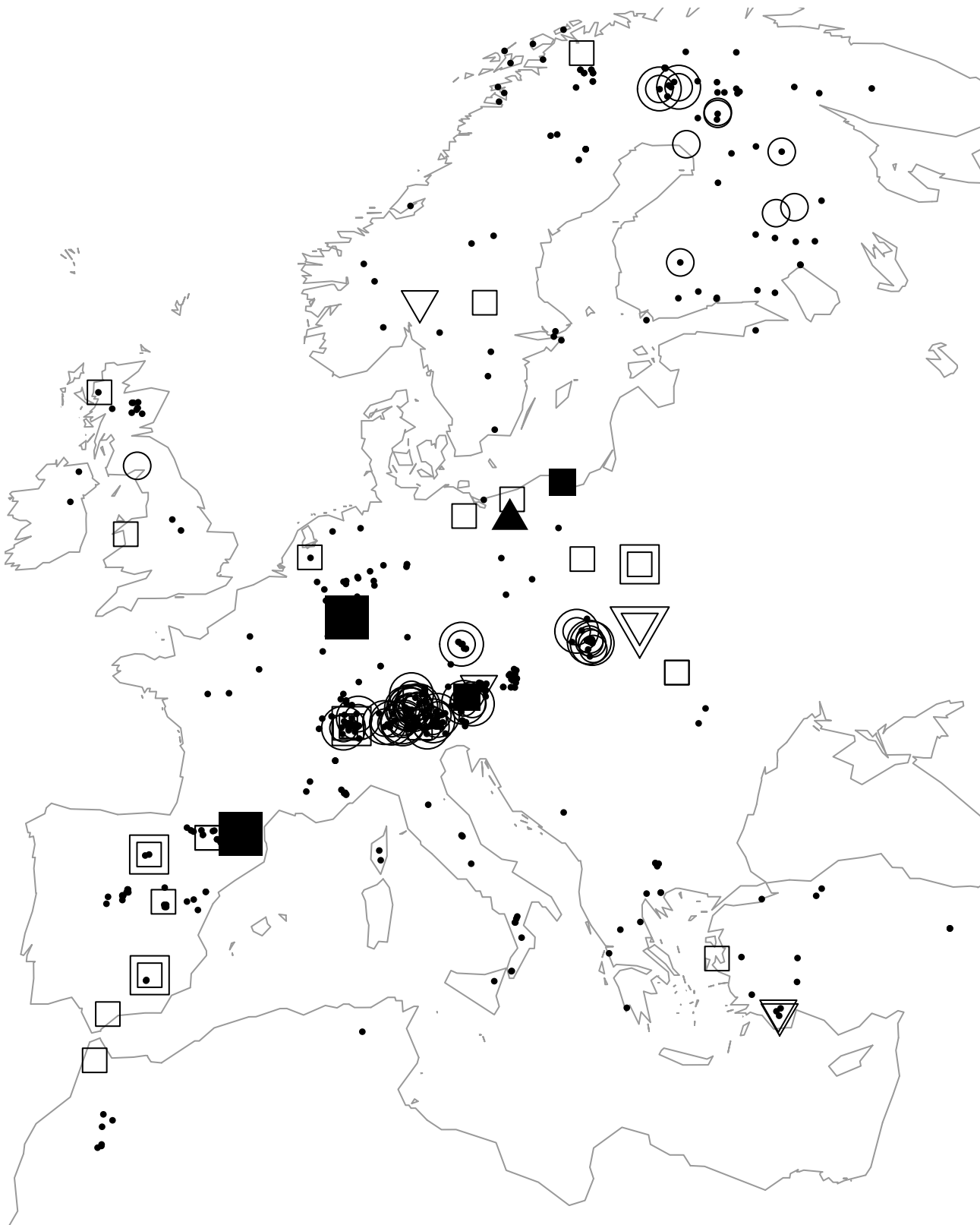
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growth anomalies1819



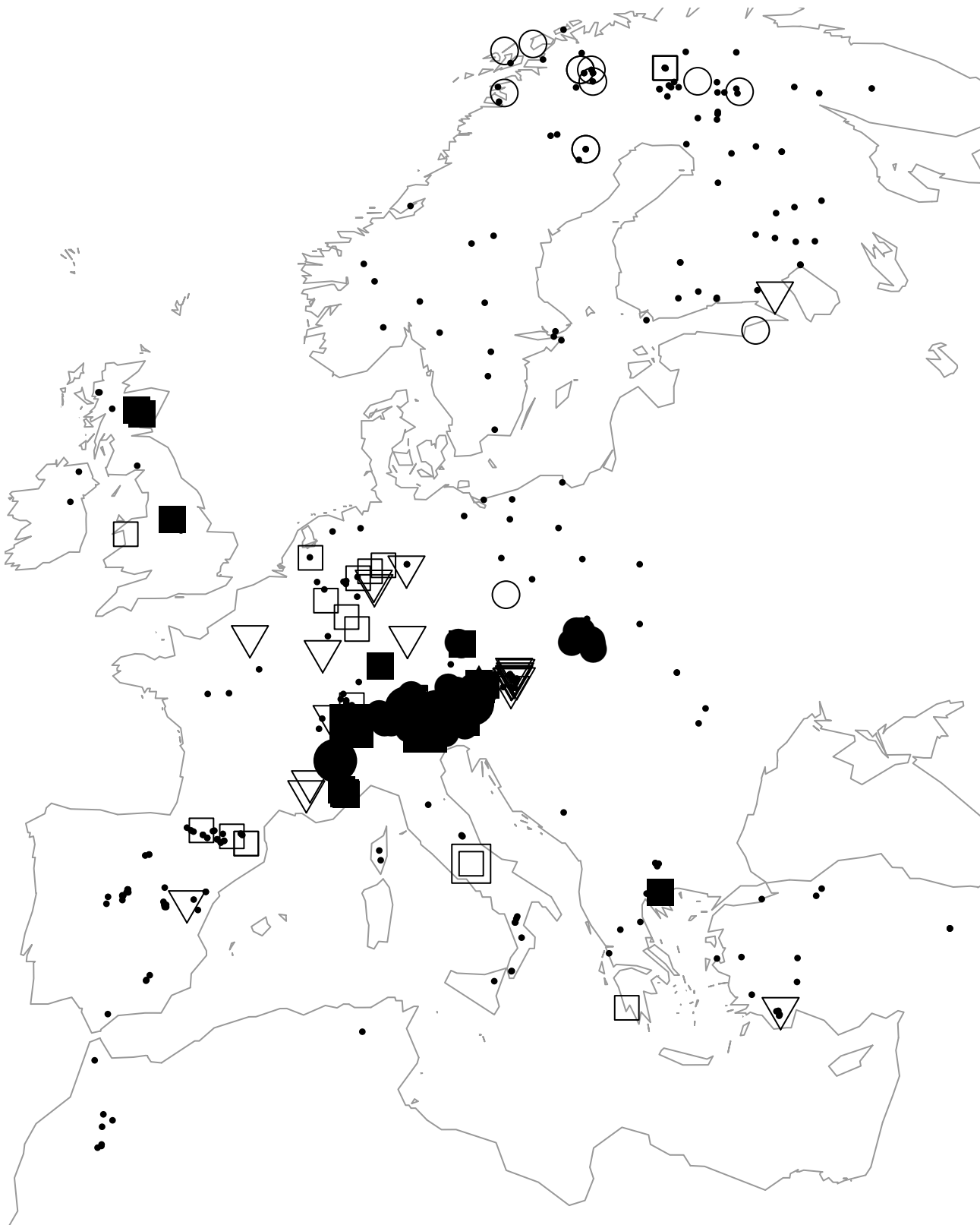
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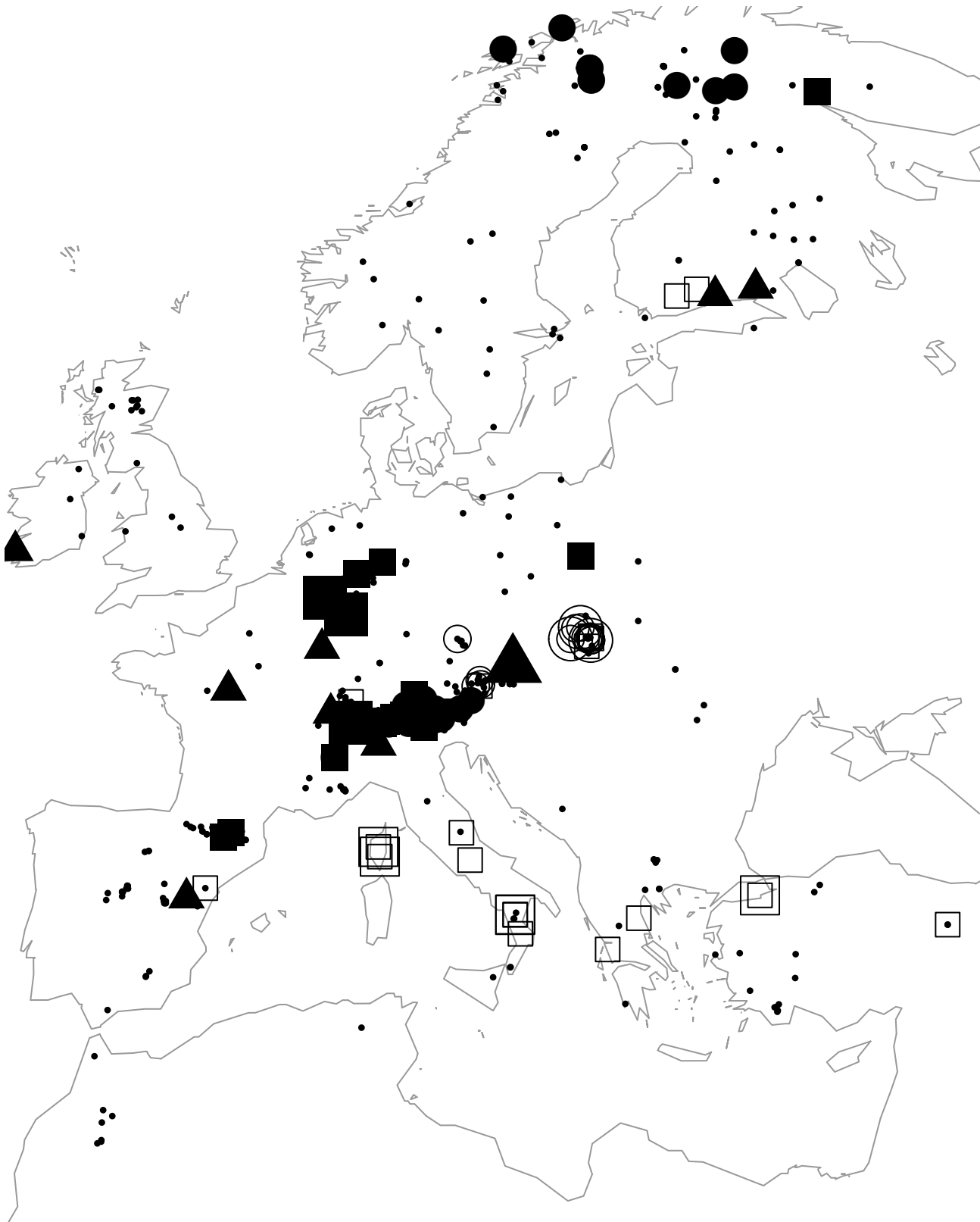
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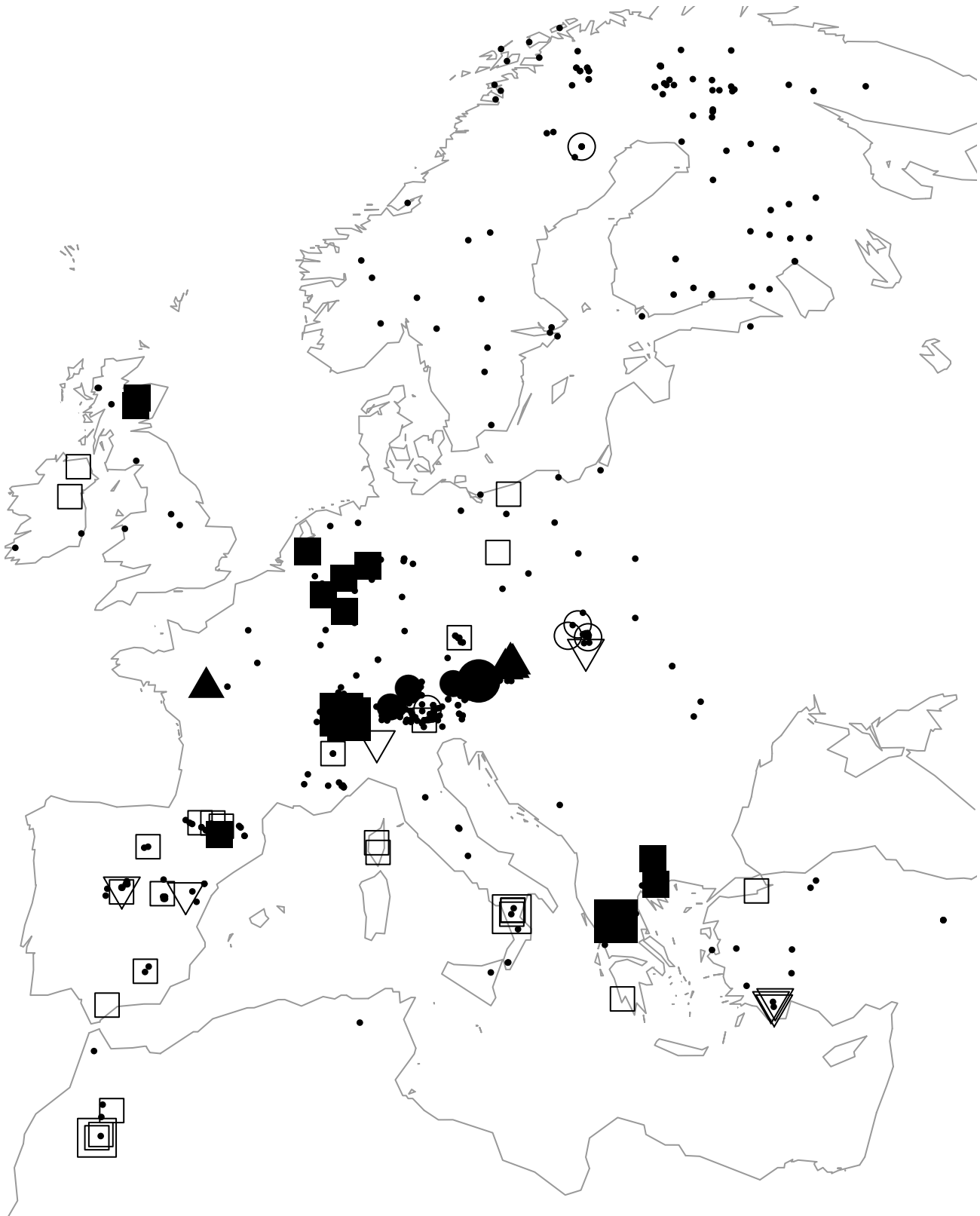
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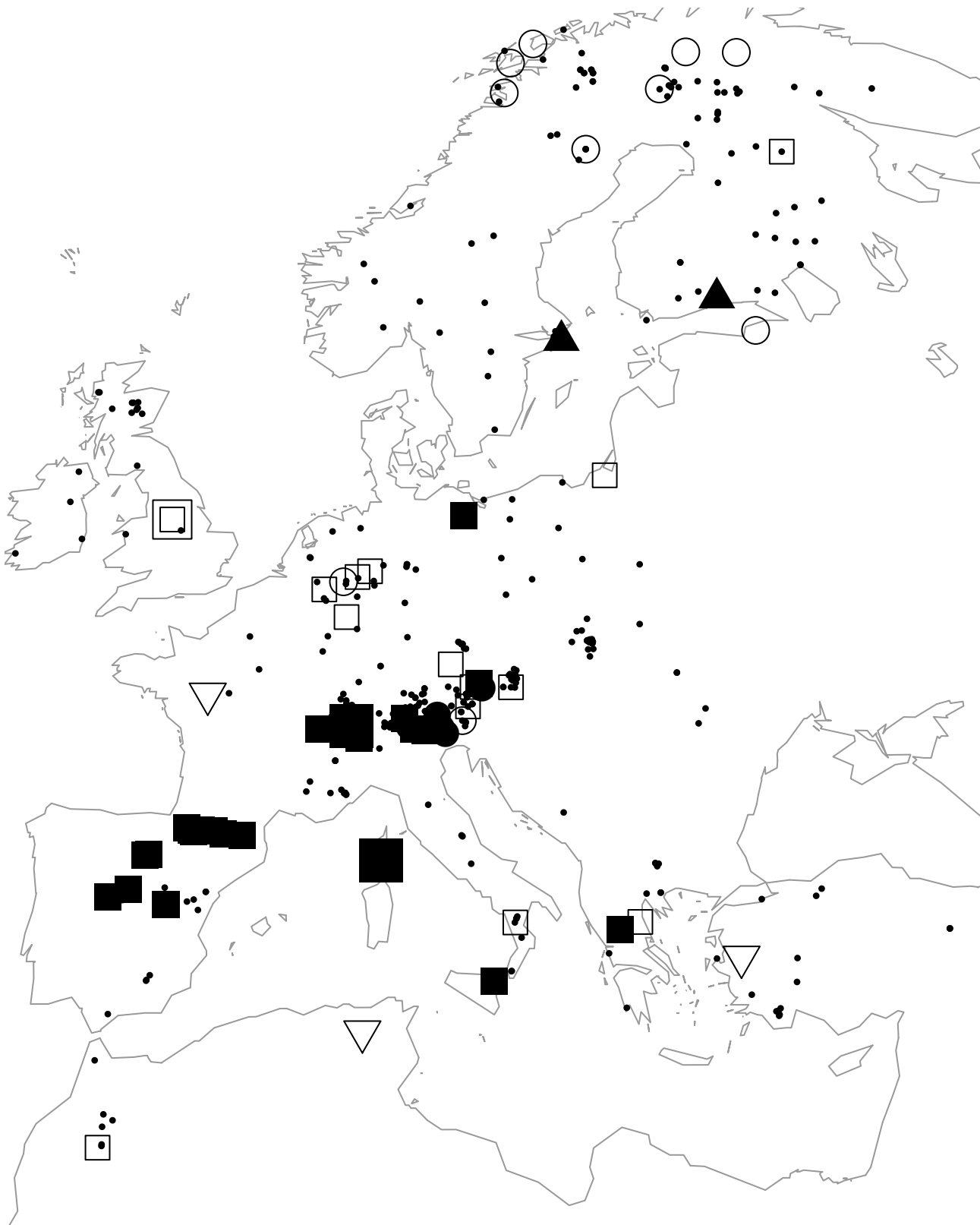
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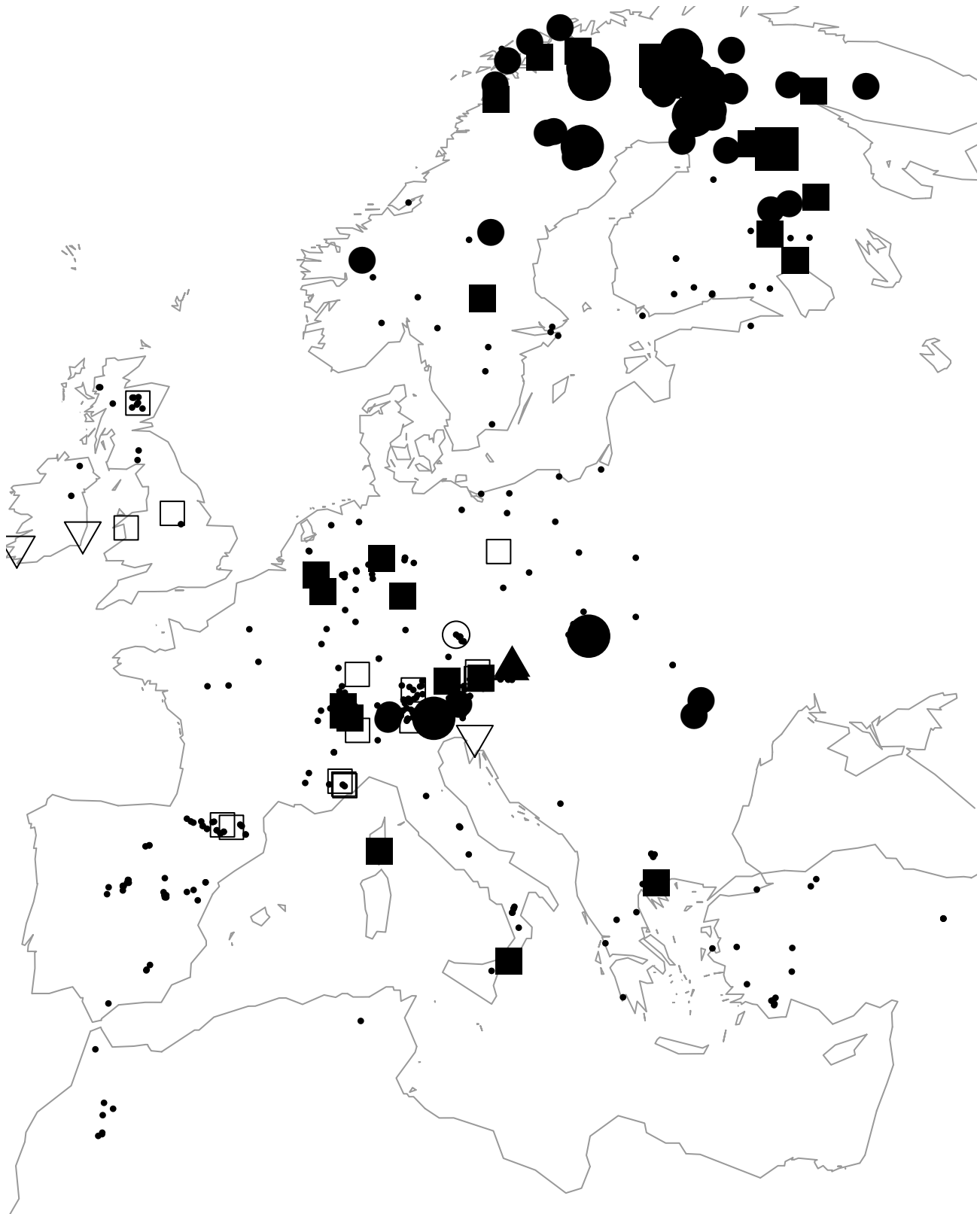
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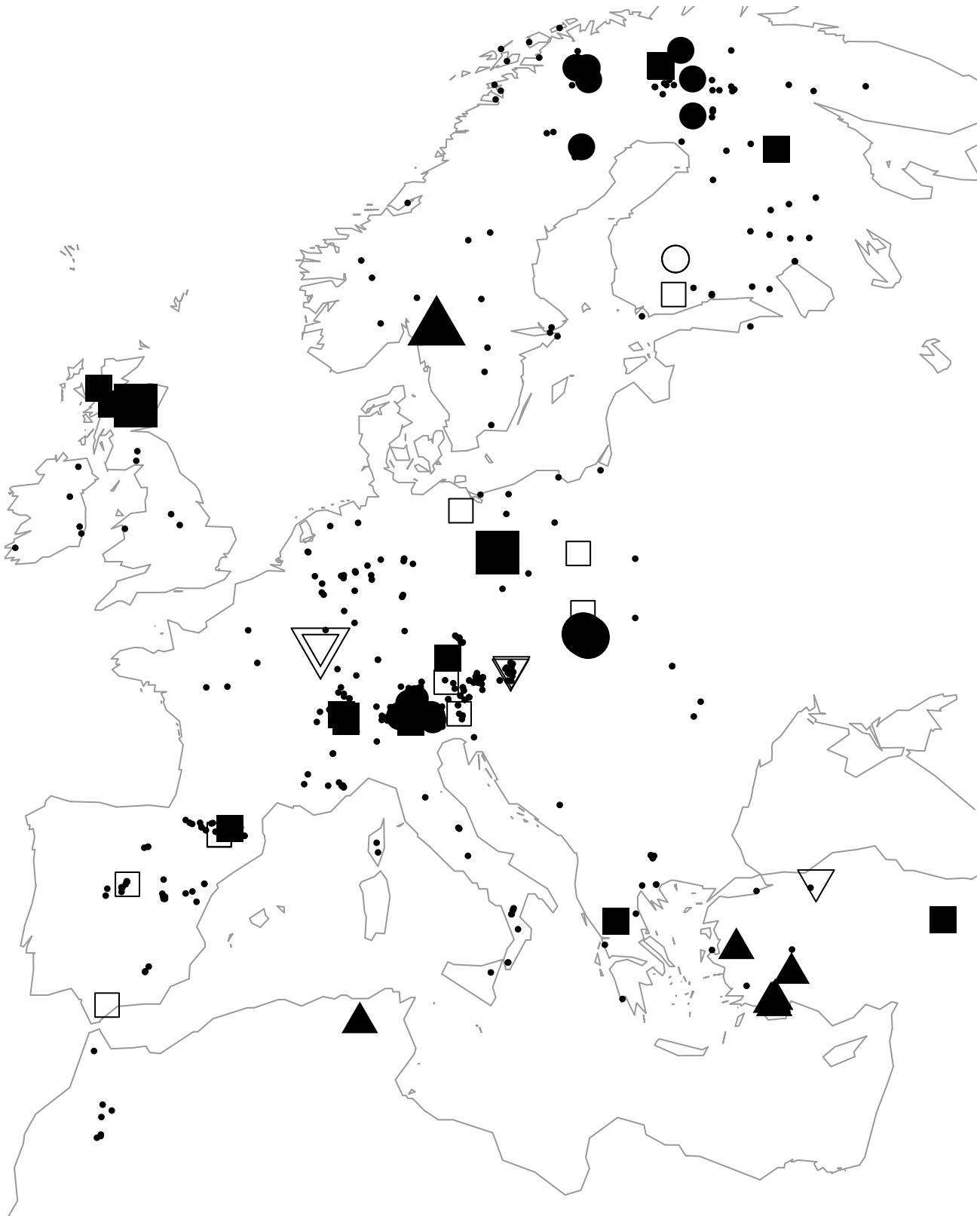
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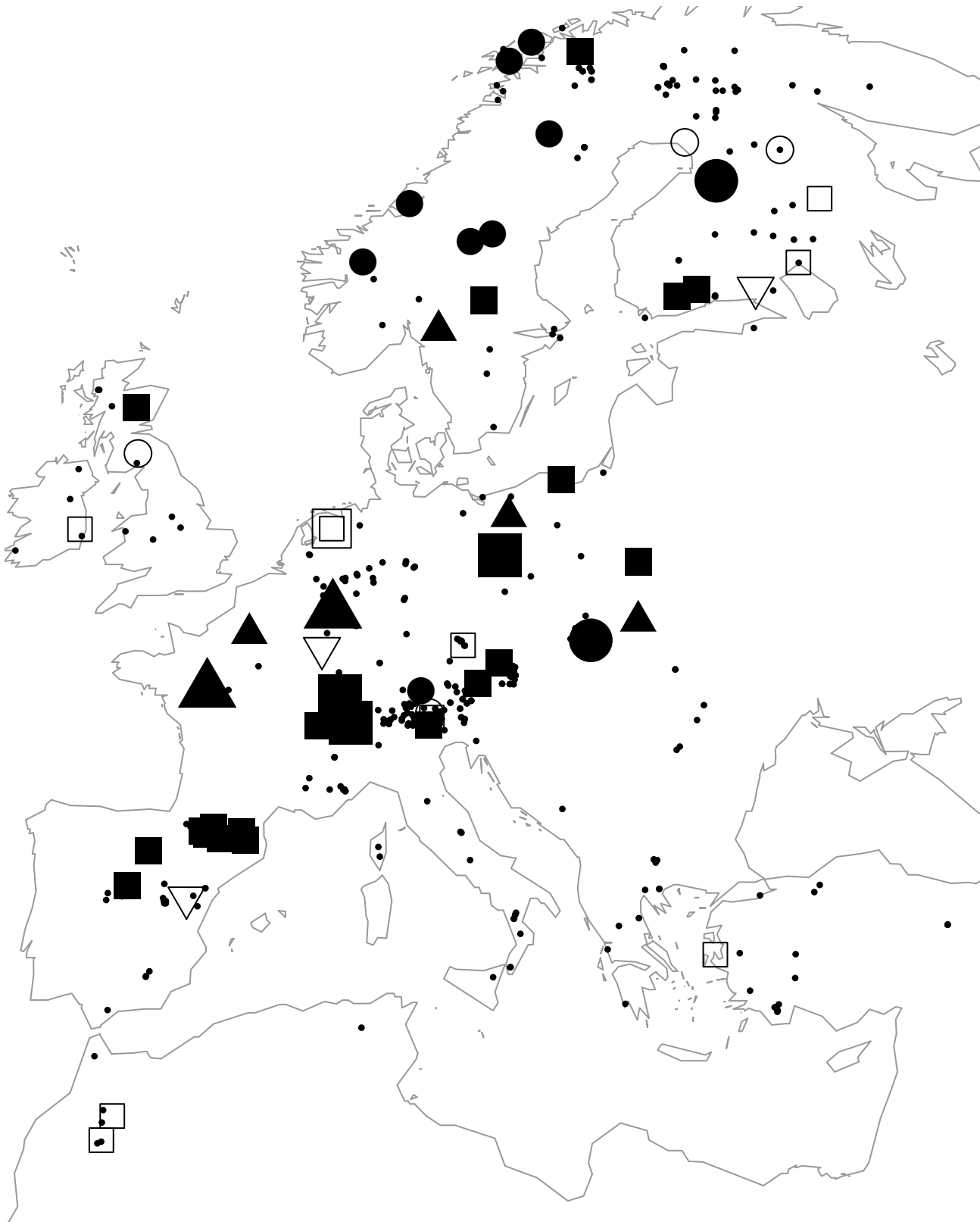
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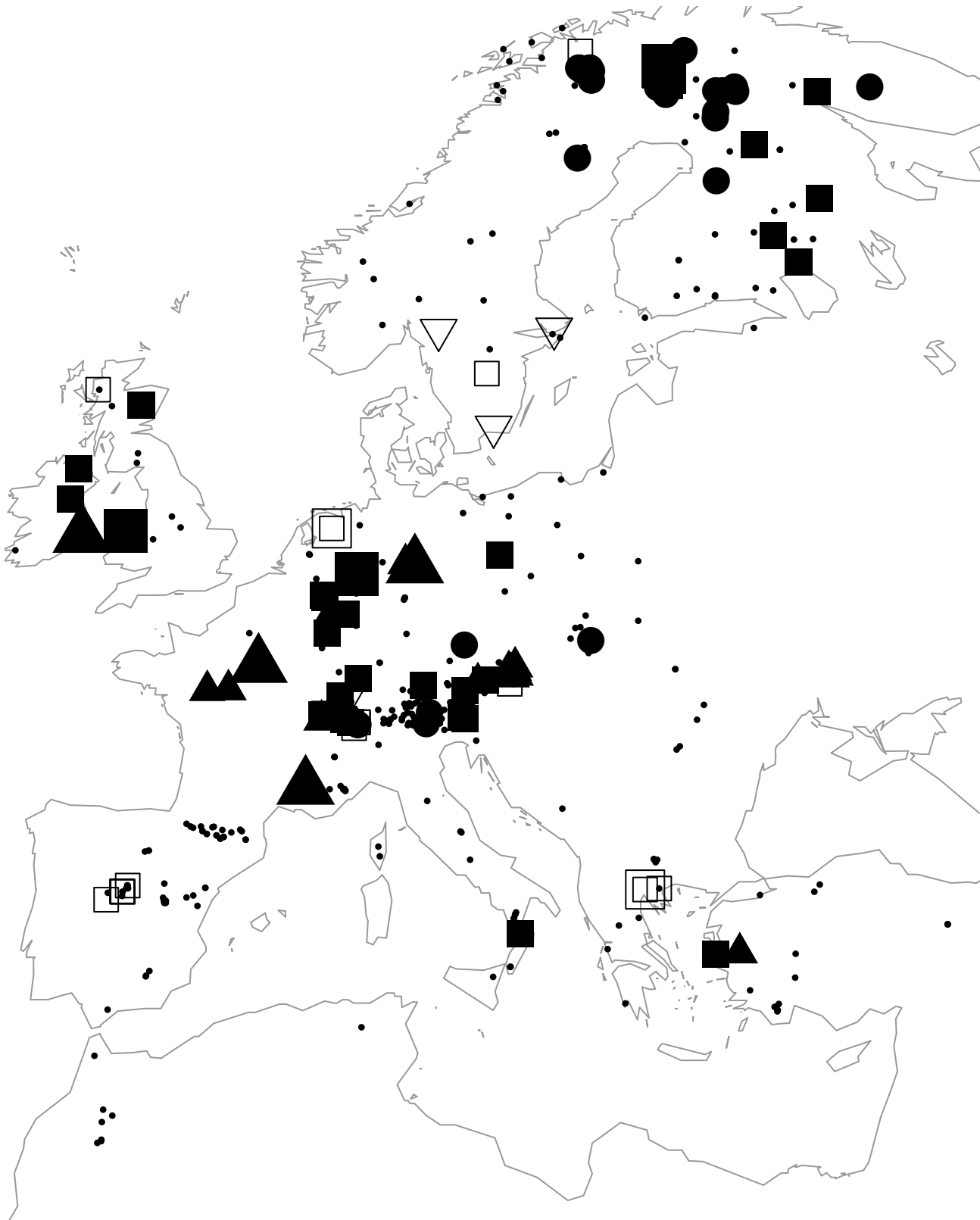
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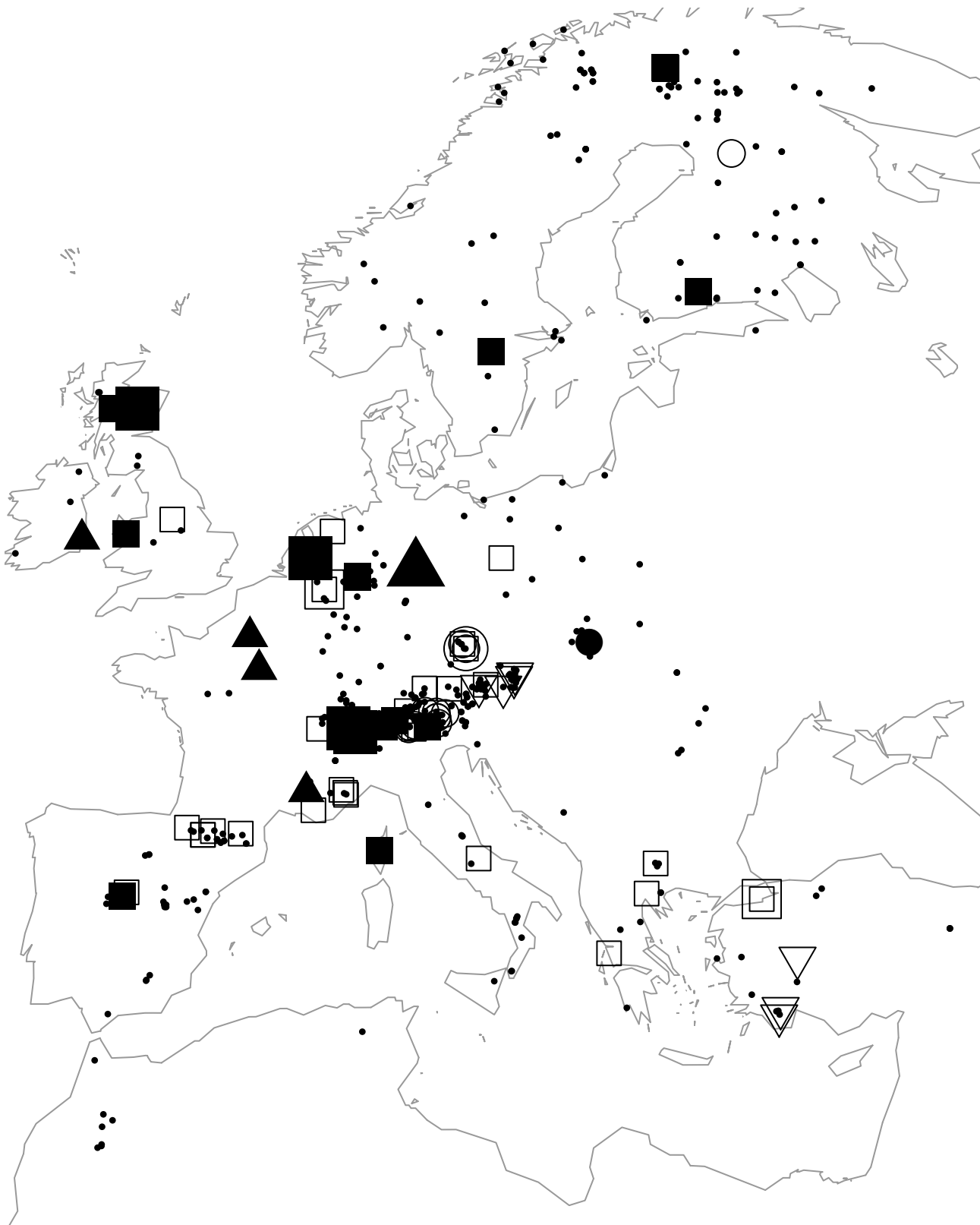
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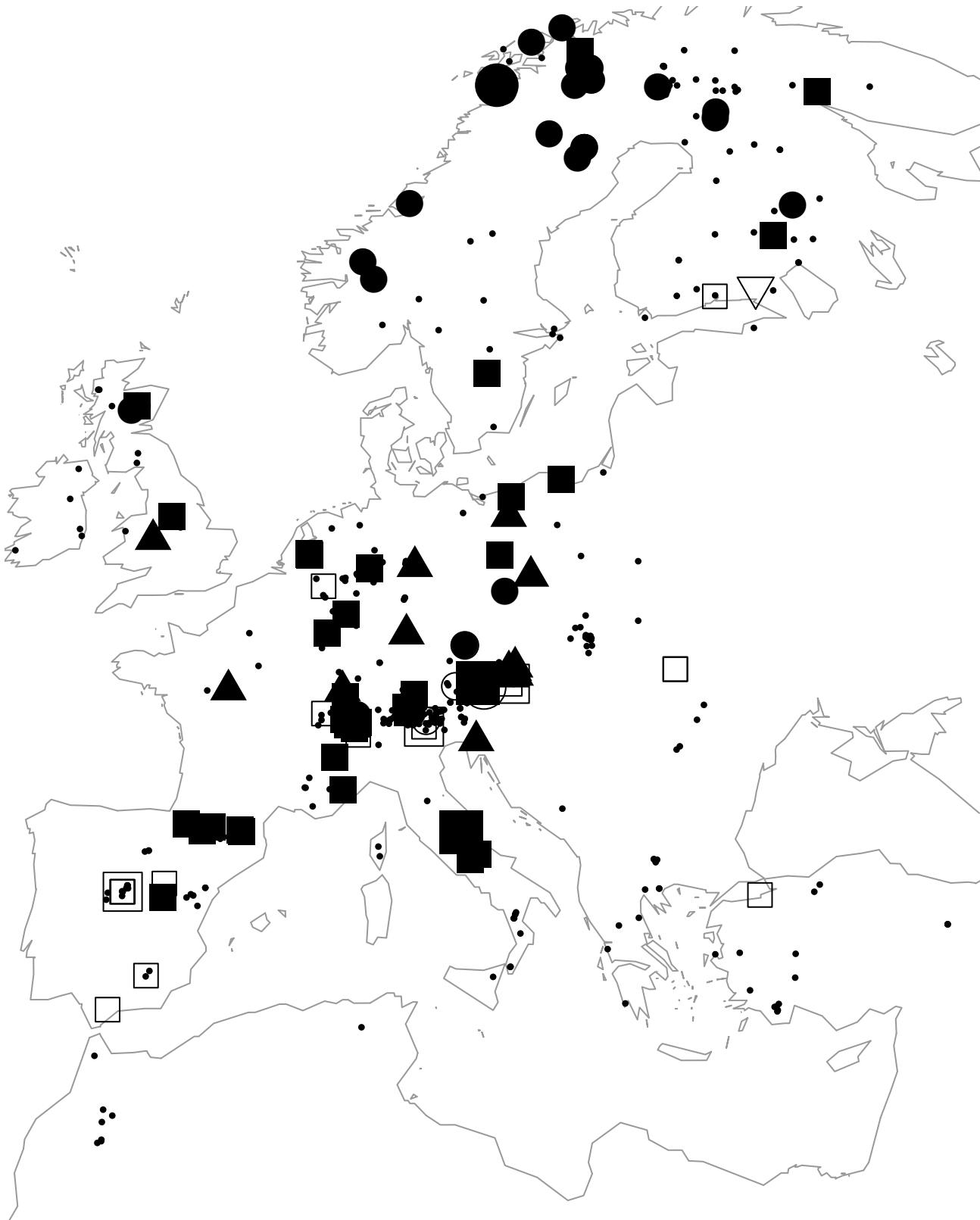
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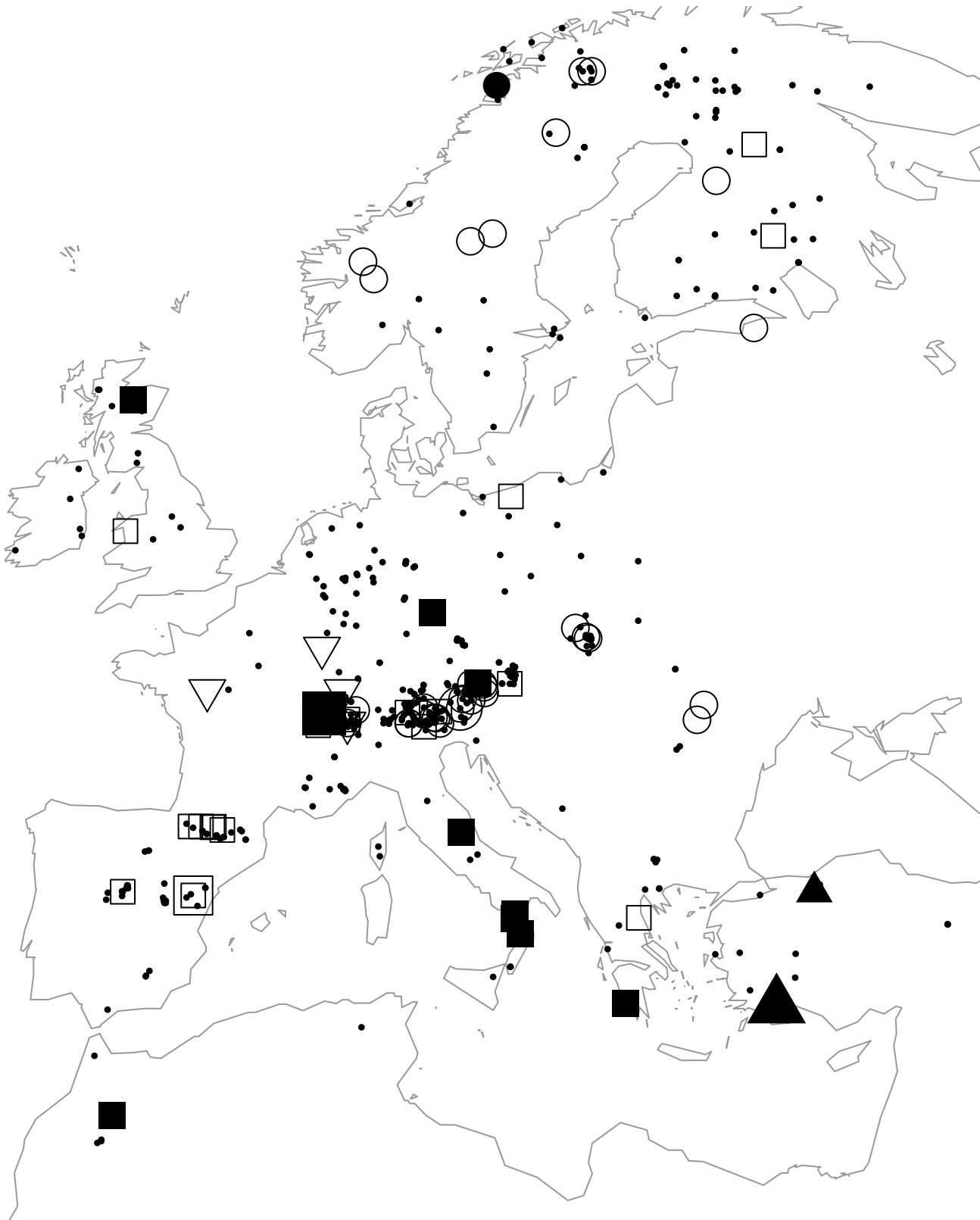
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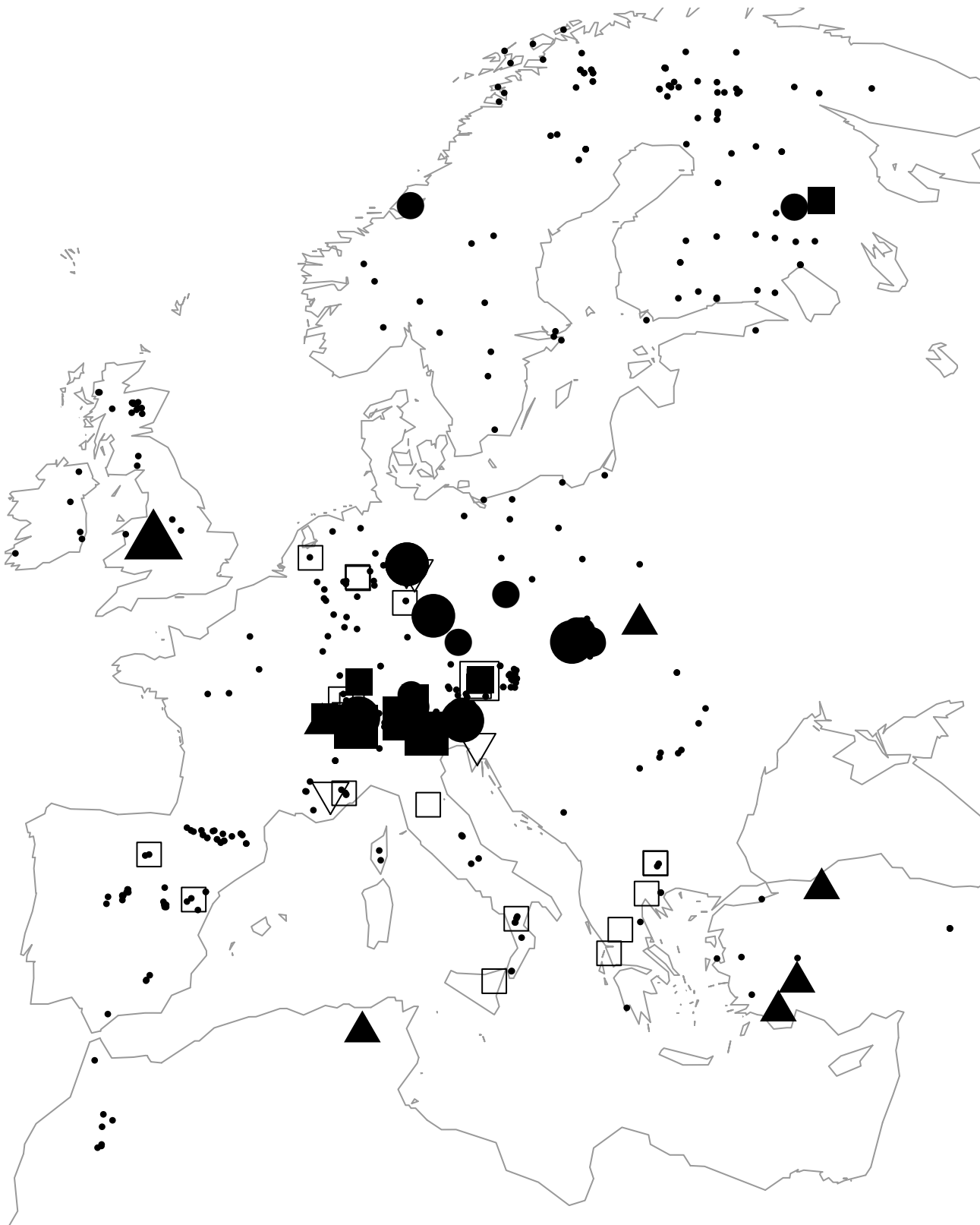
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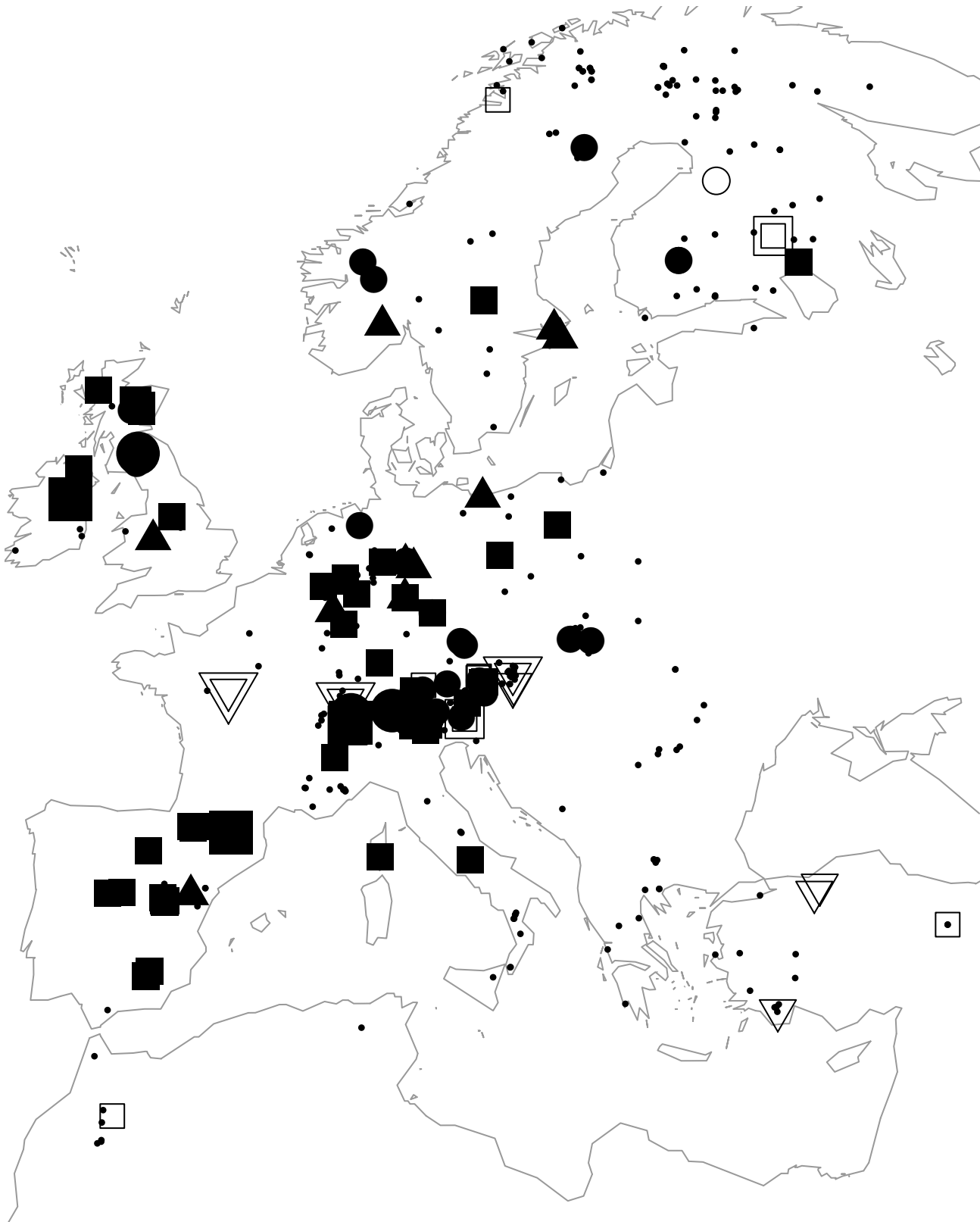
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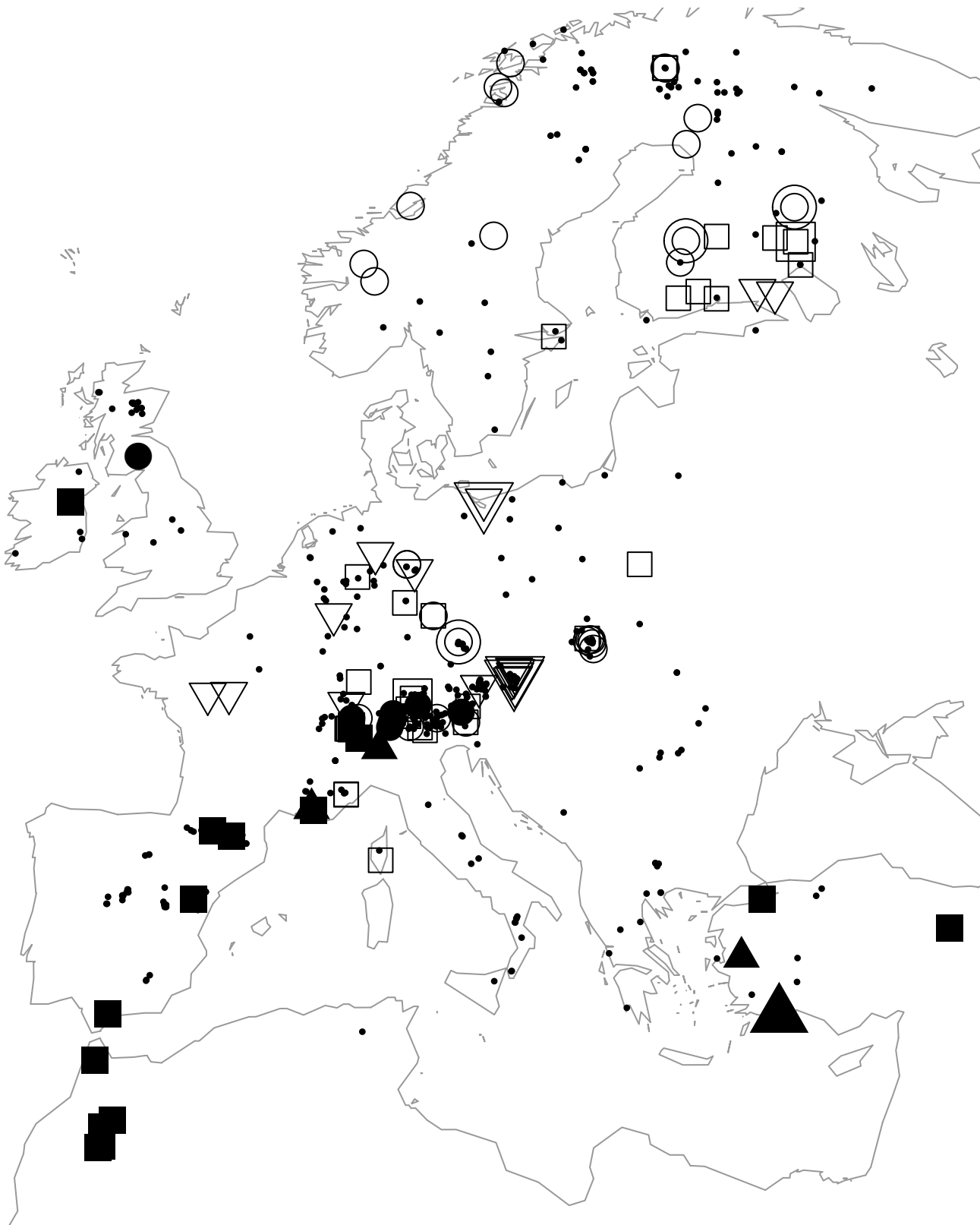
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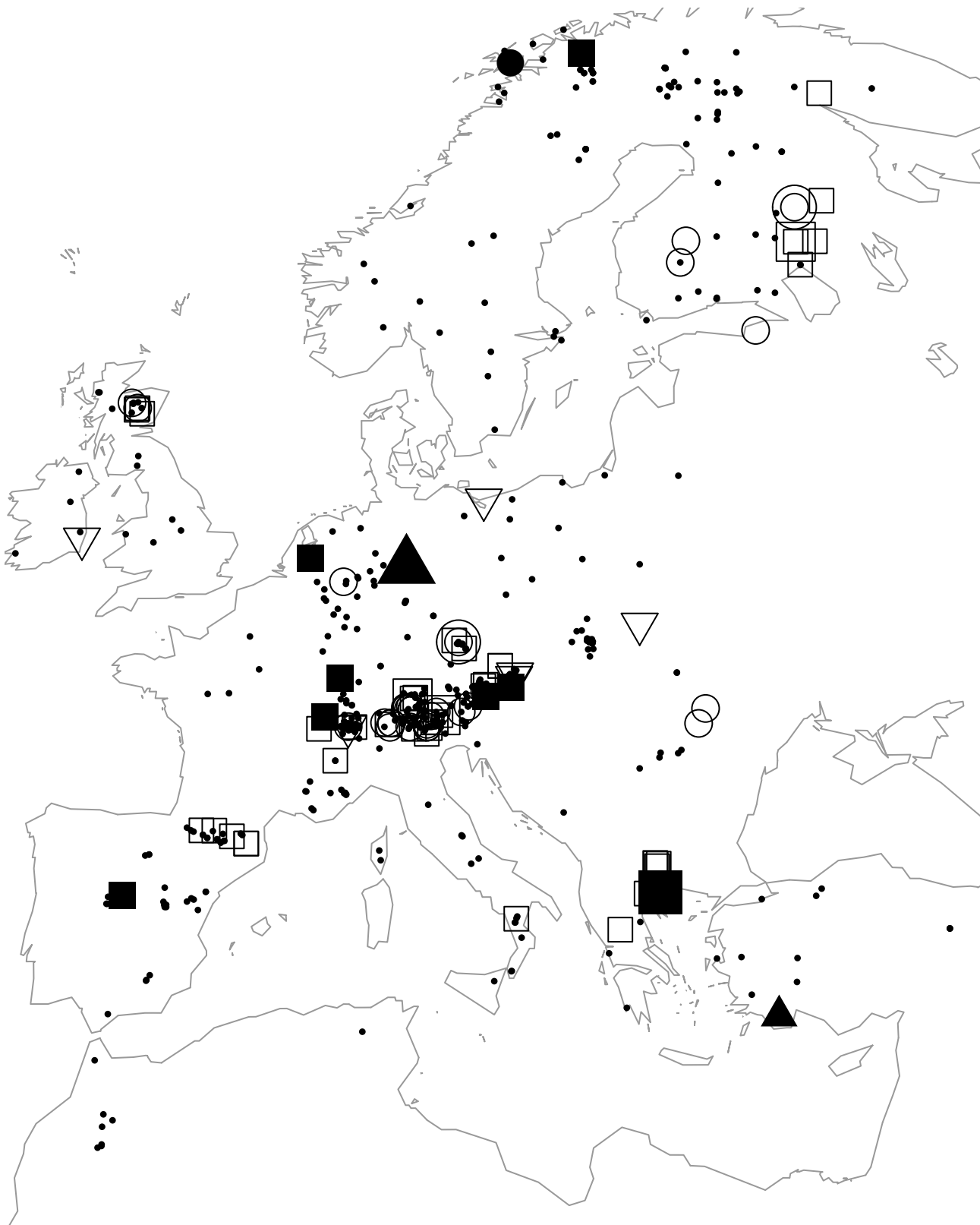
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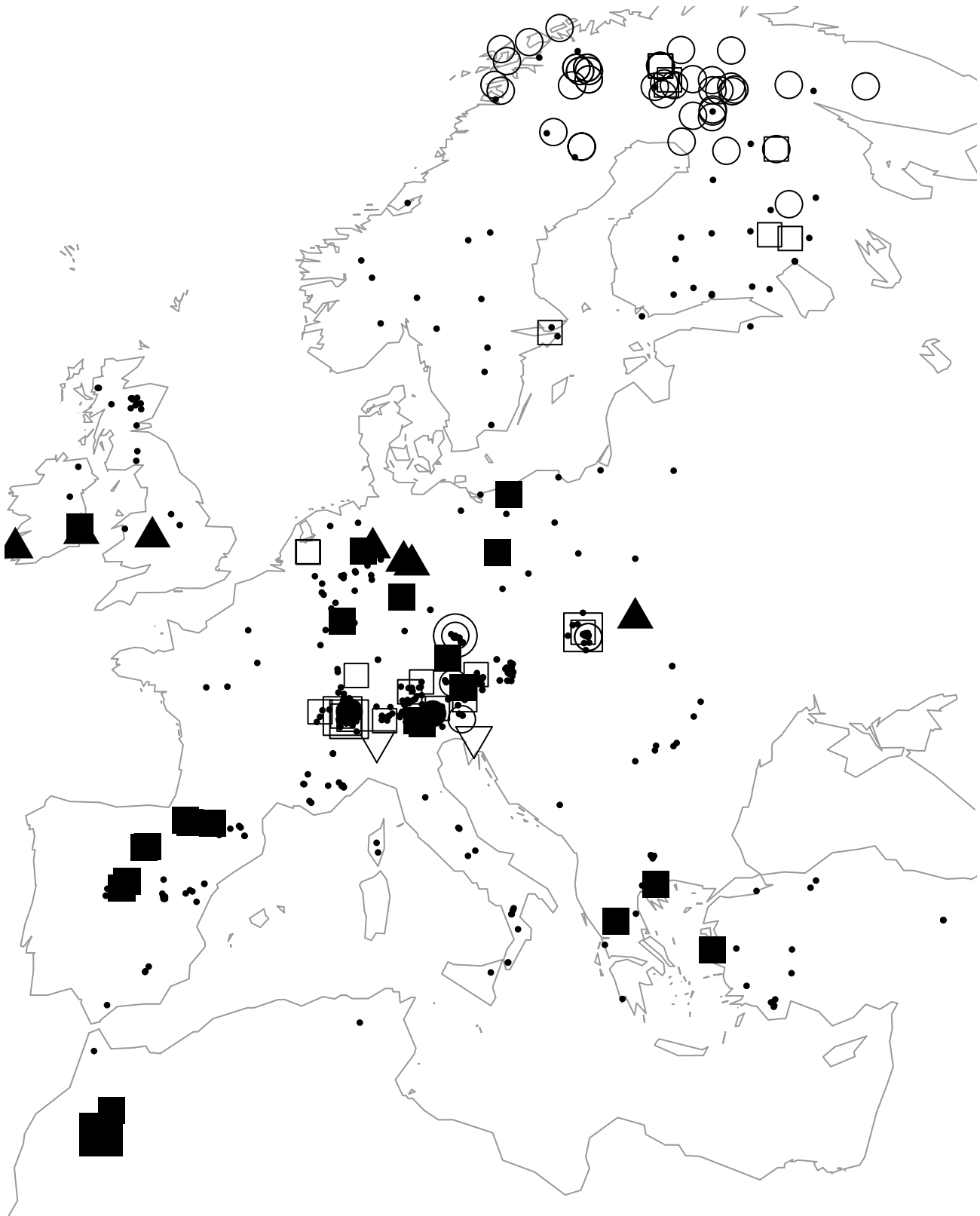
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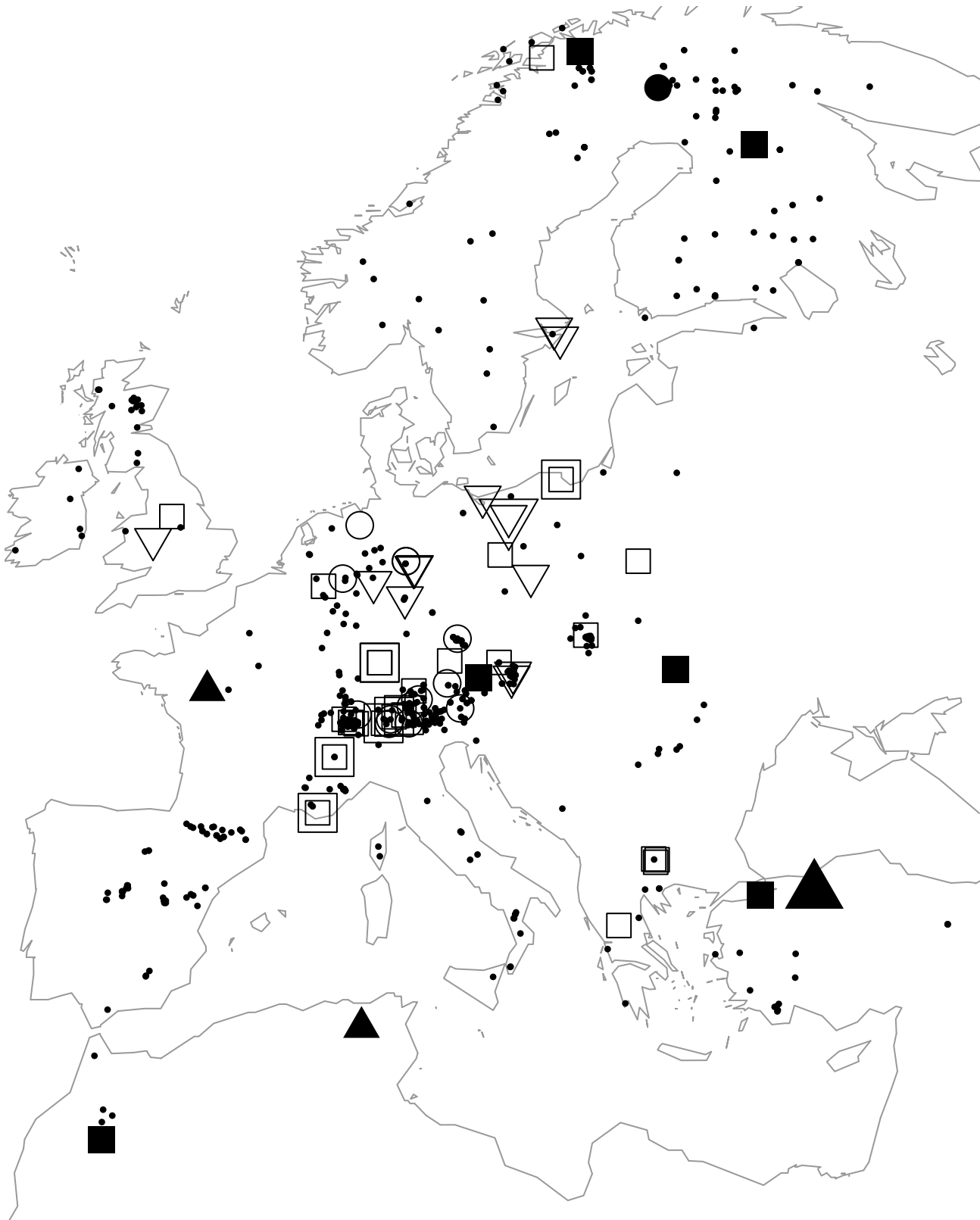
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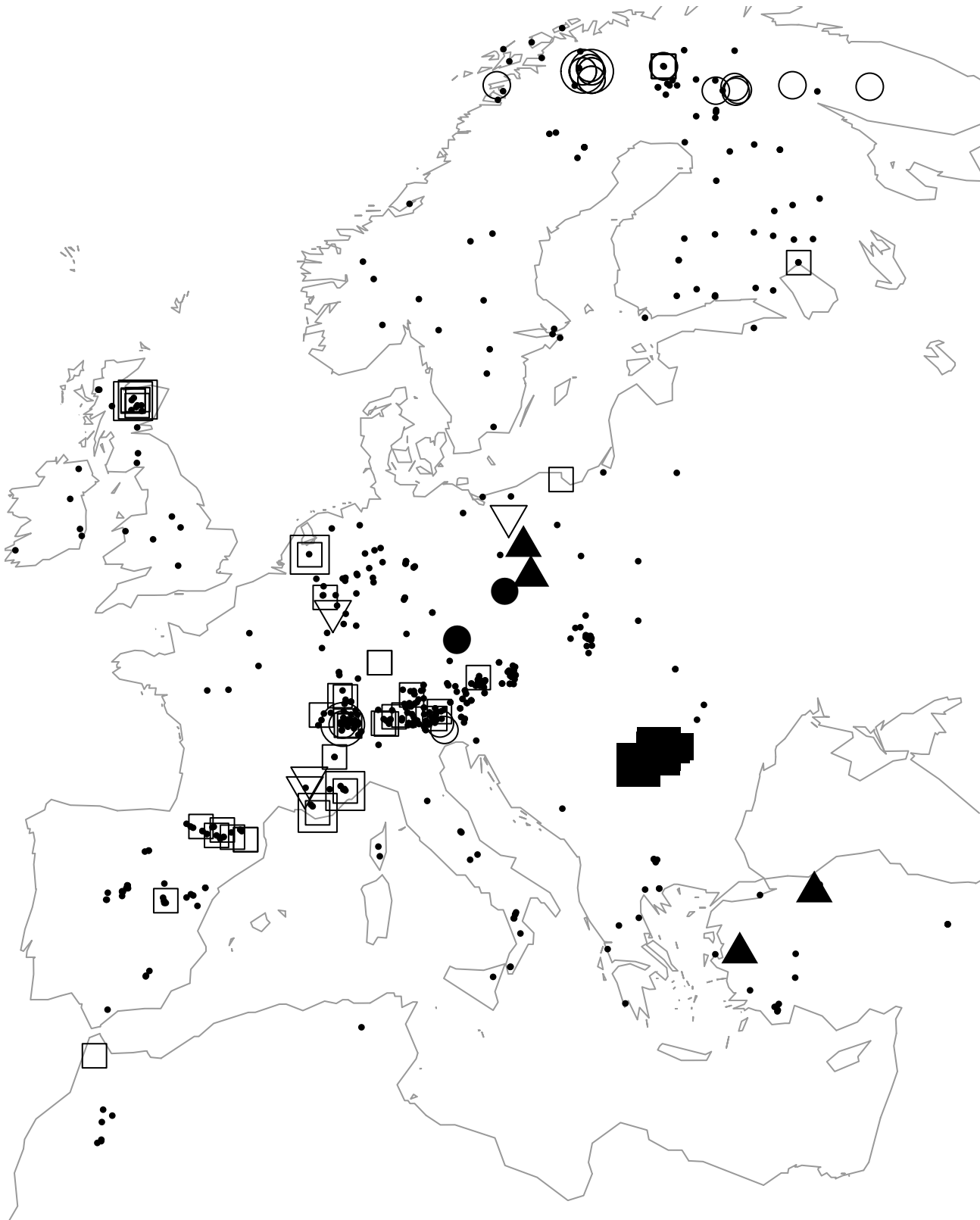
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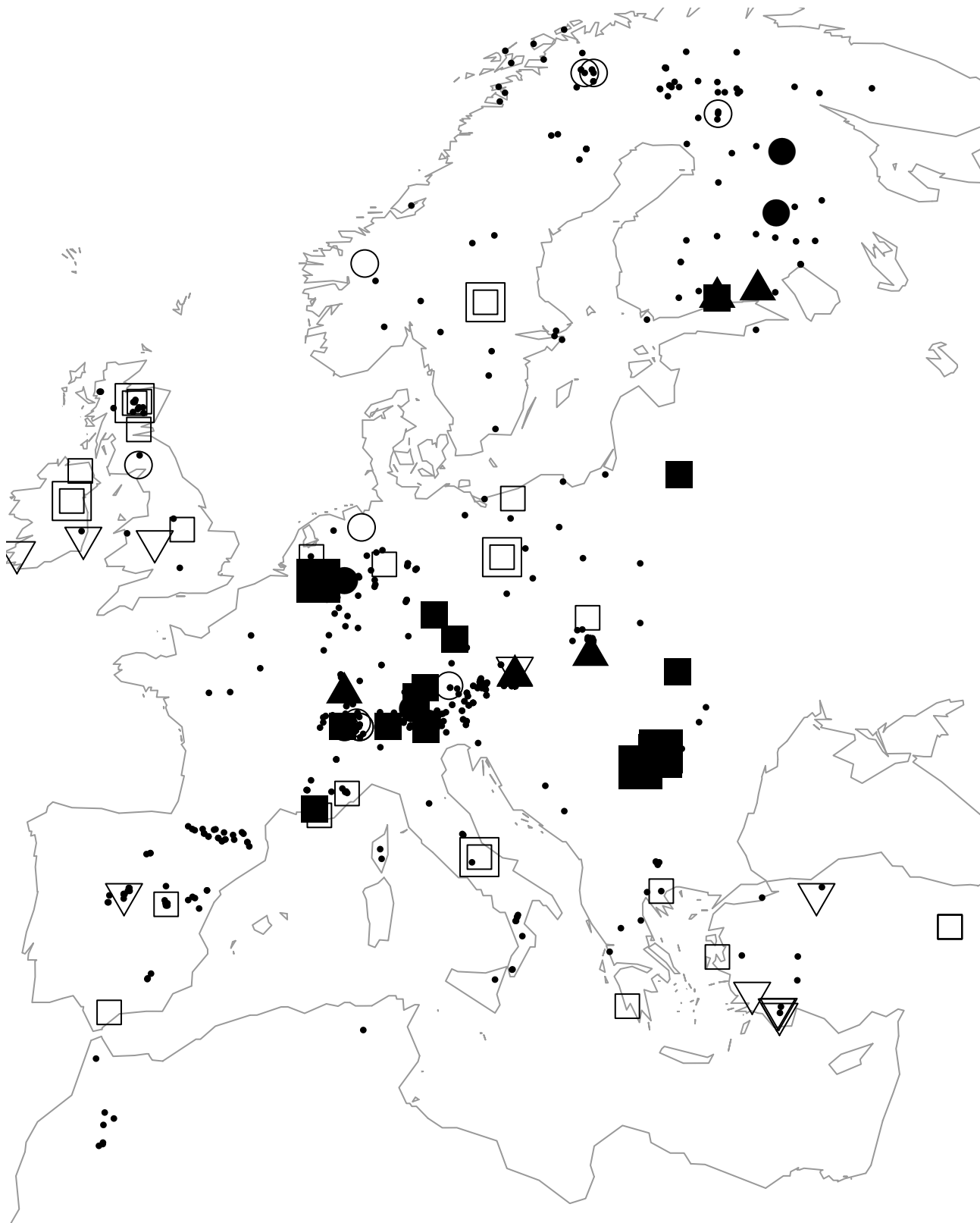
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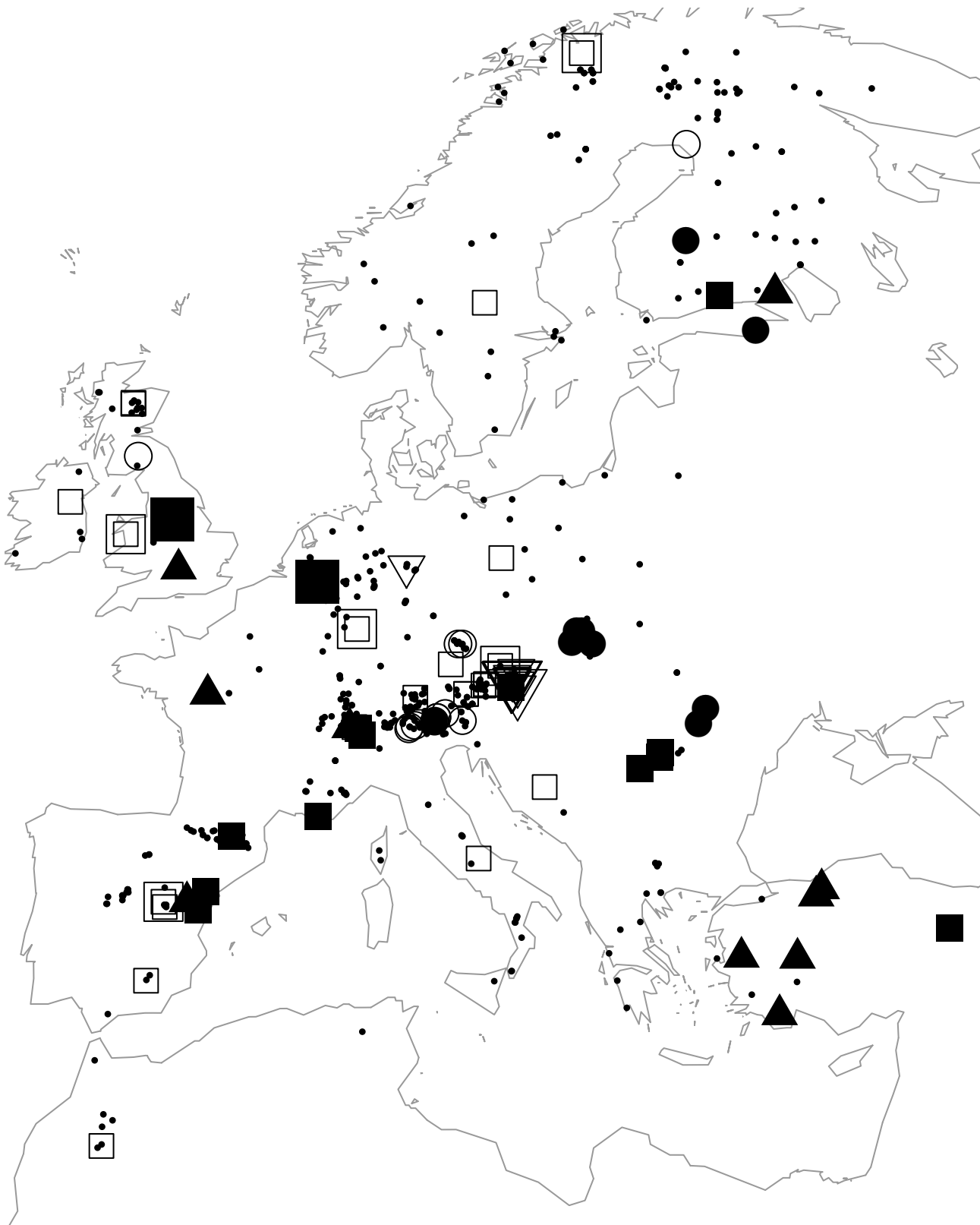
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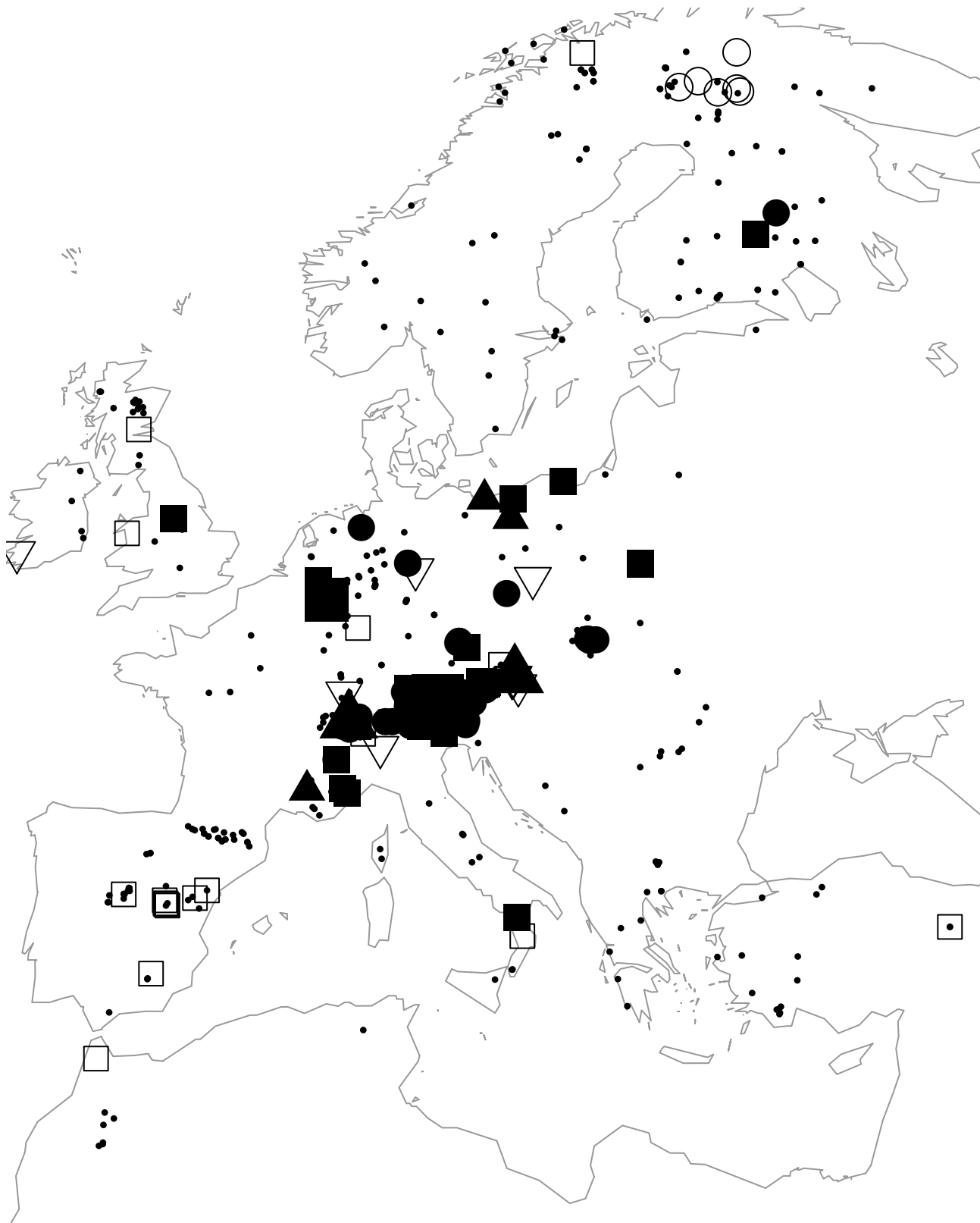
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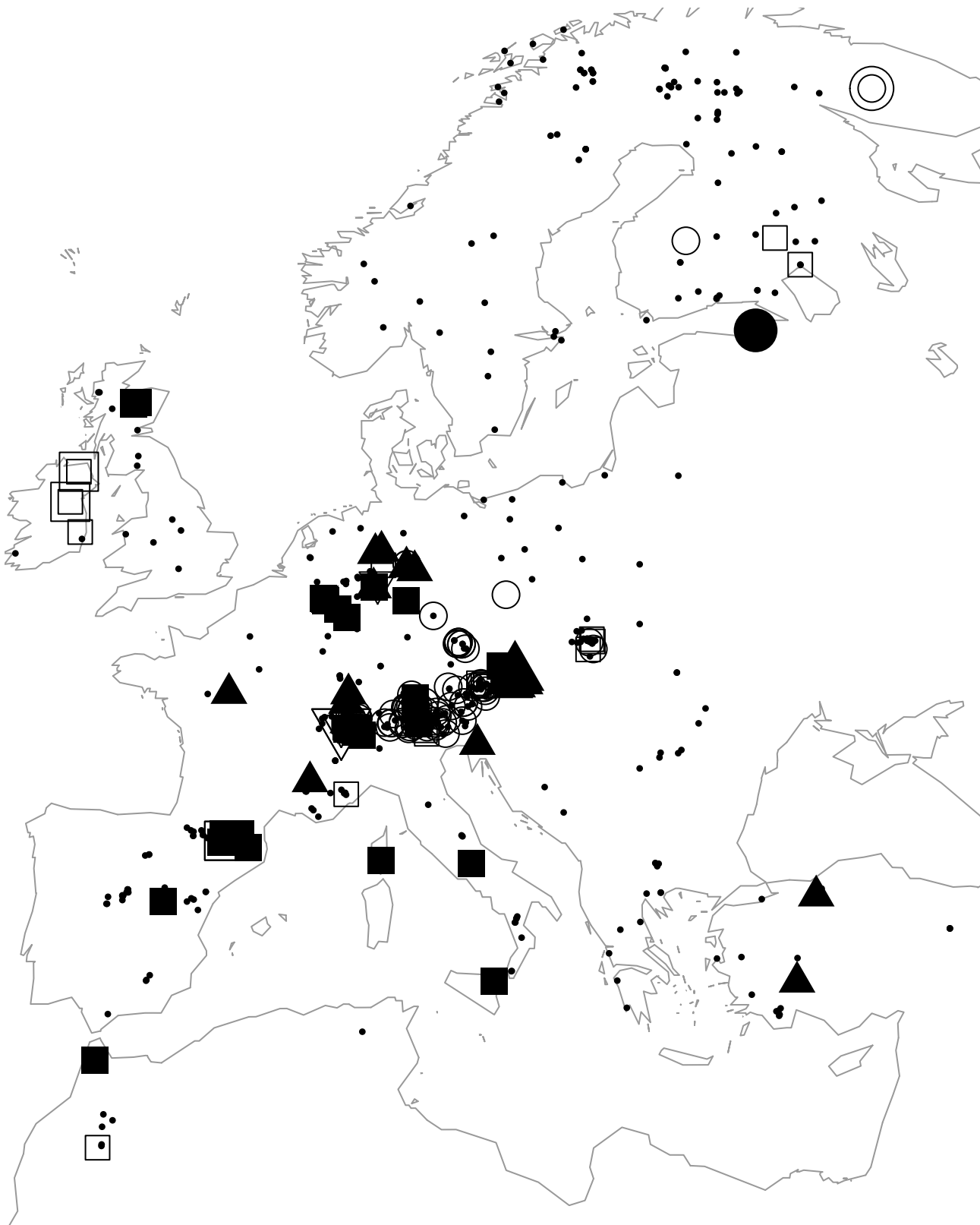
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growth anomalies1842



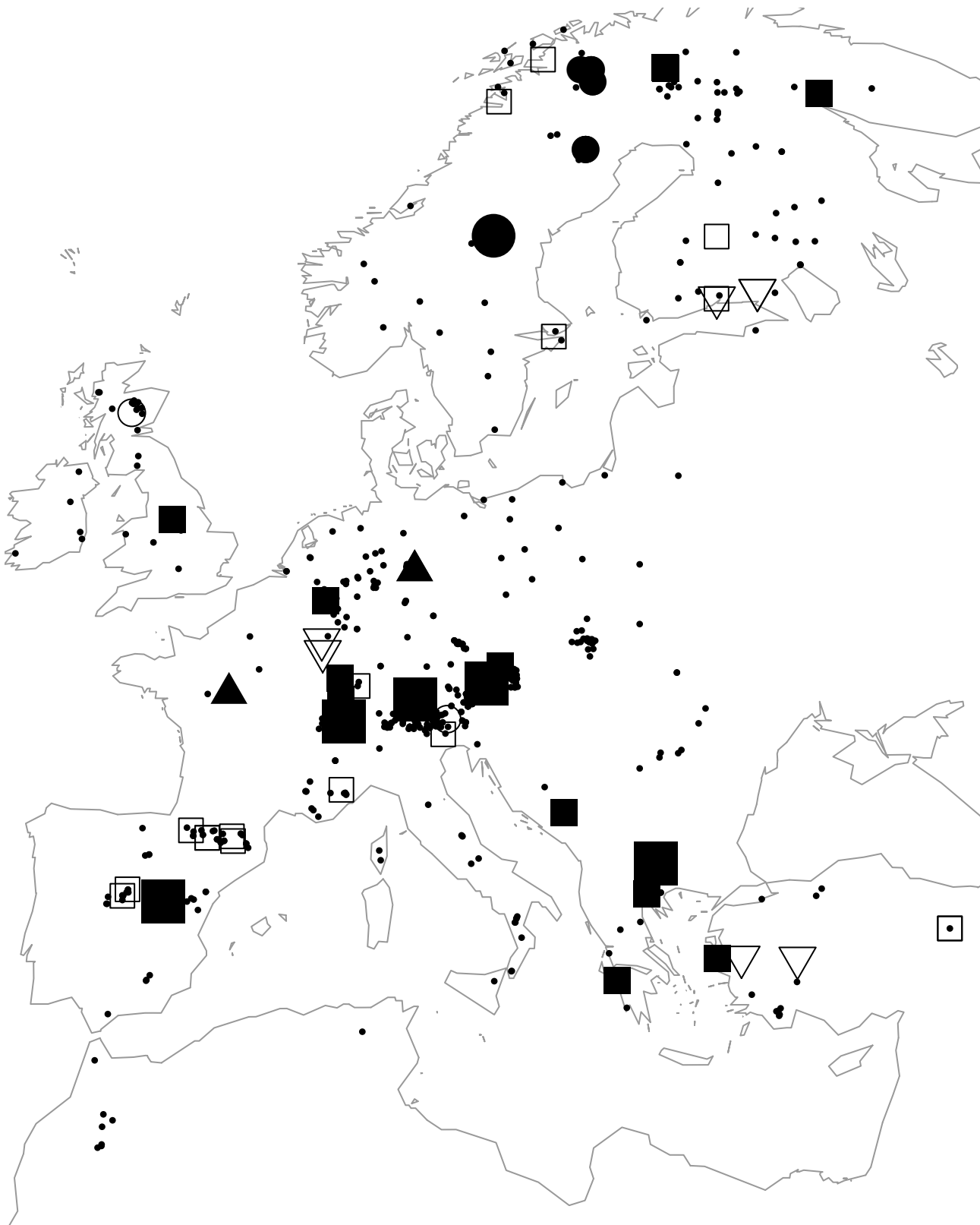
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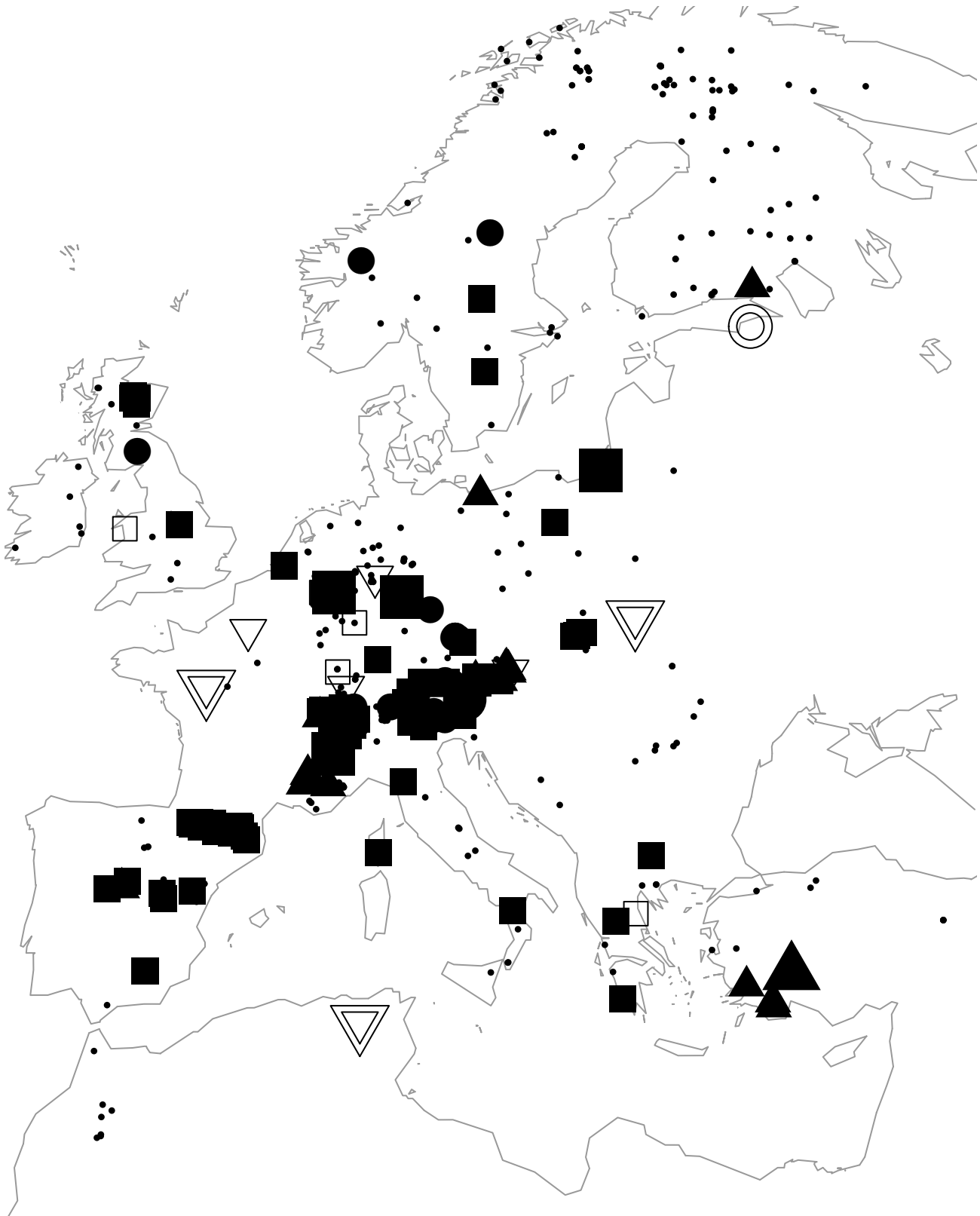
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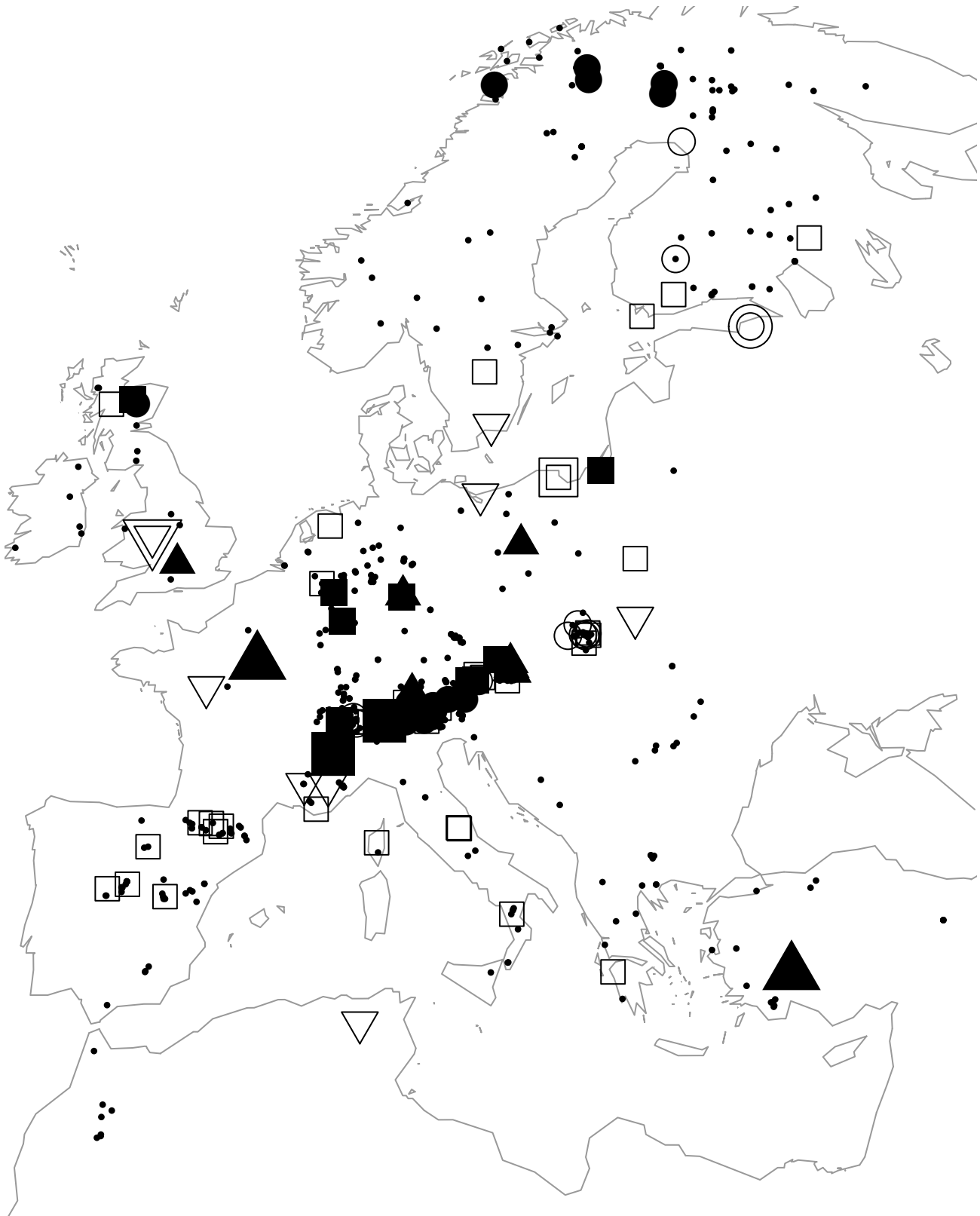
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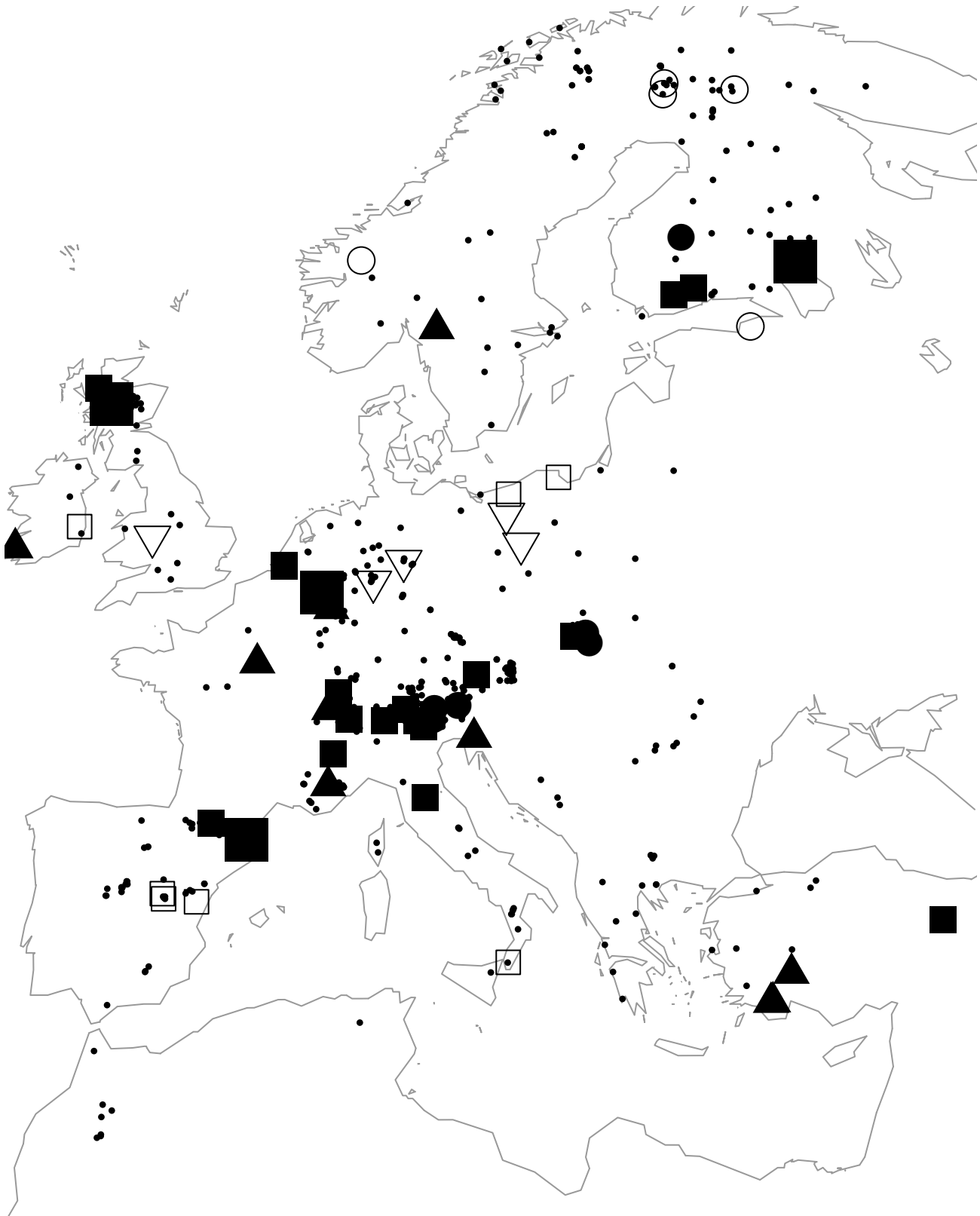
growth anomalies1846



growth anomalies1847



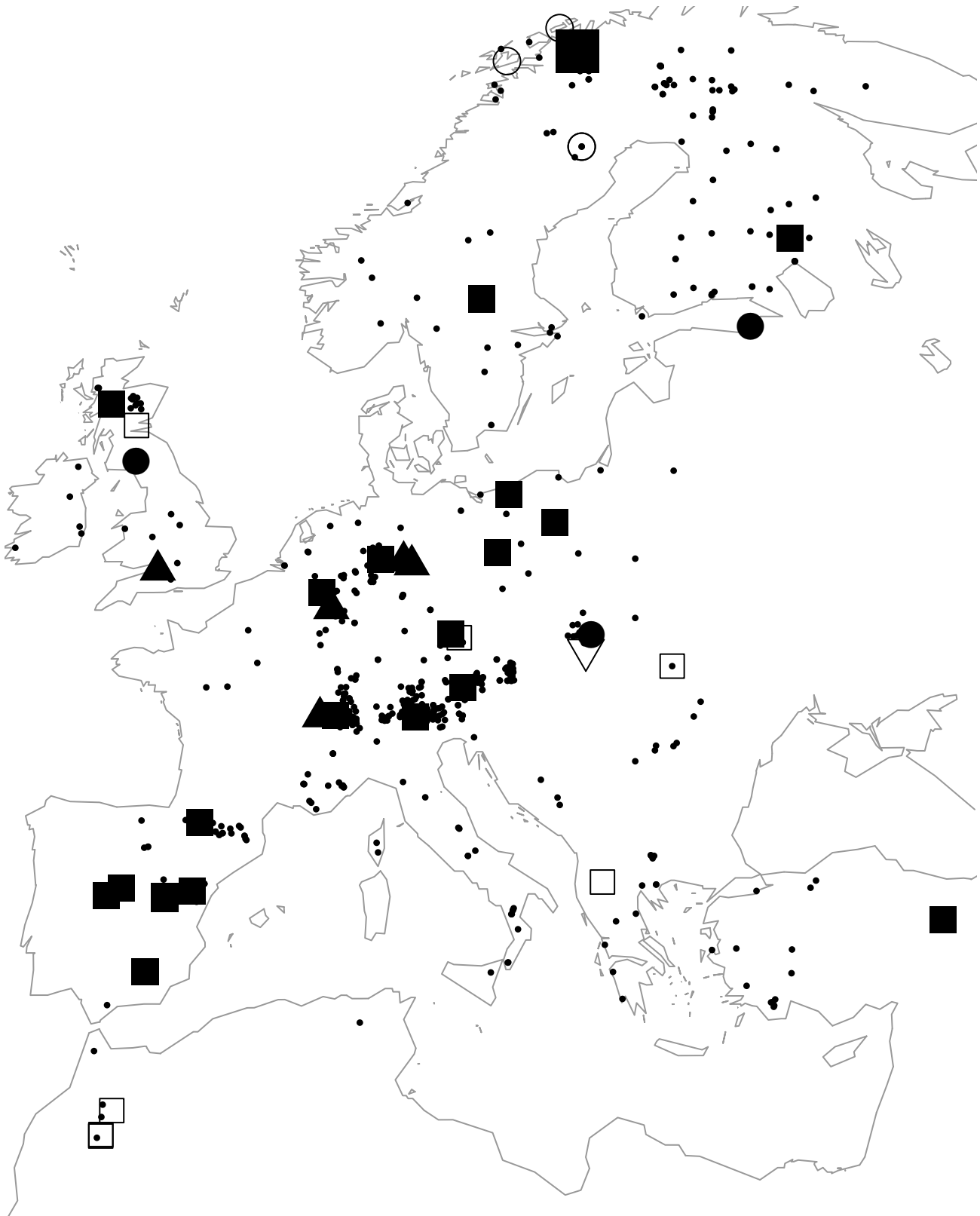
growth anomalies1848



growth anomalies1849



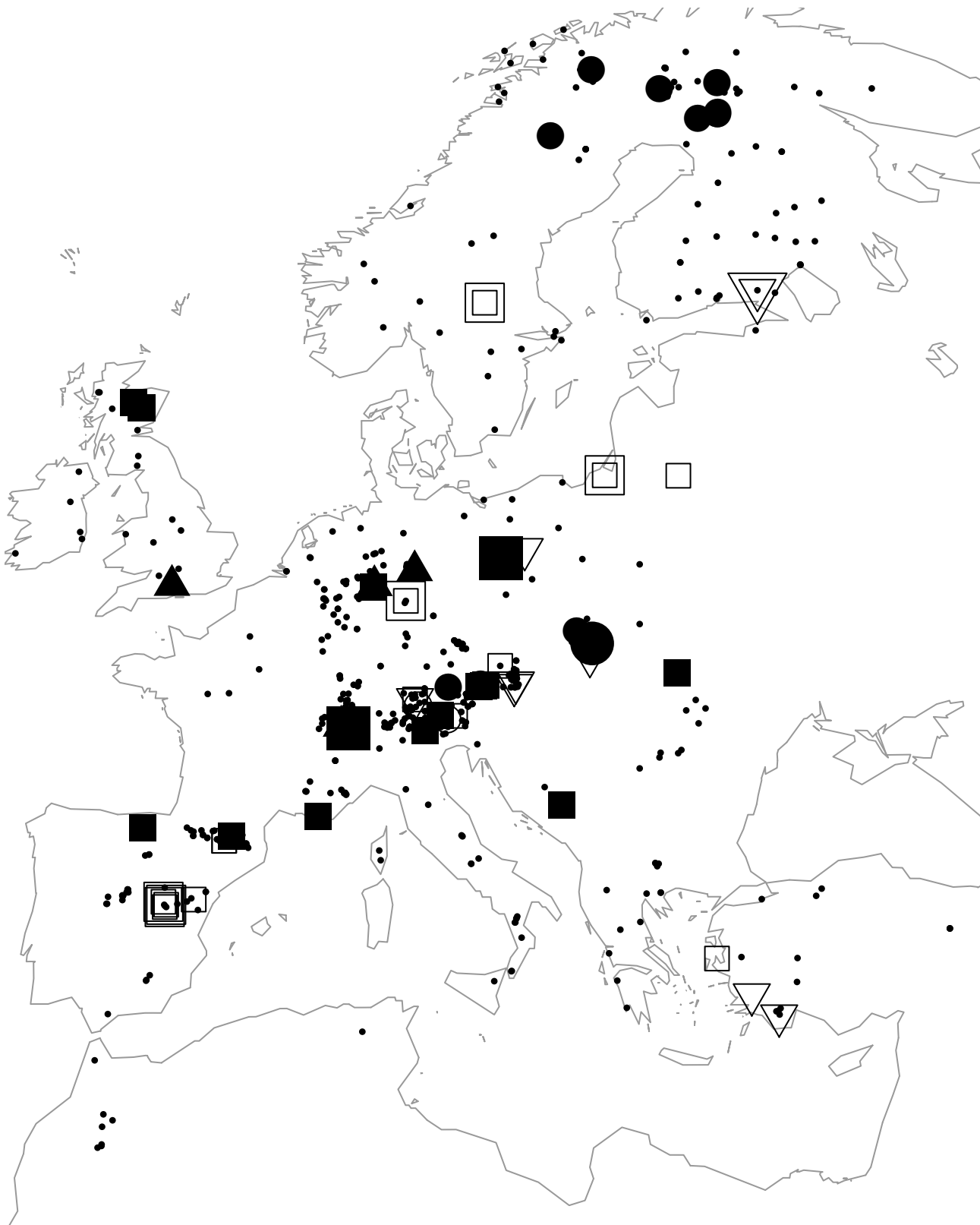
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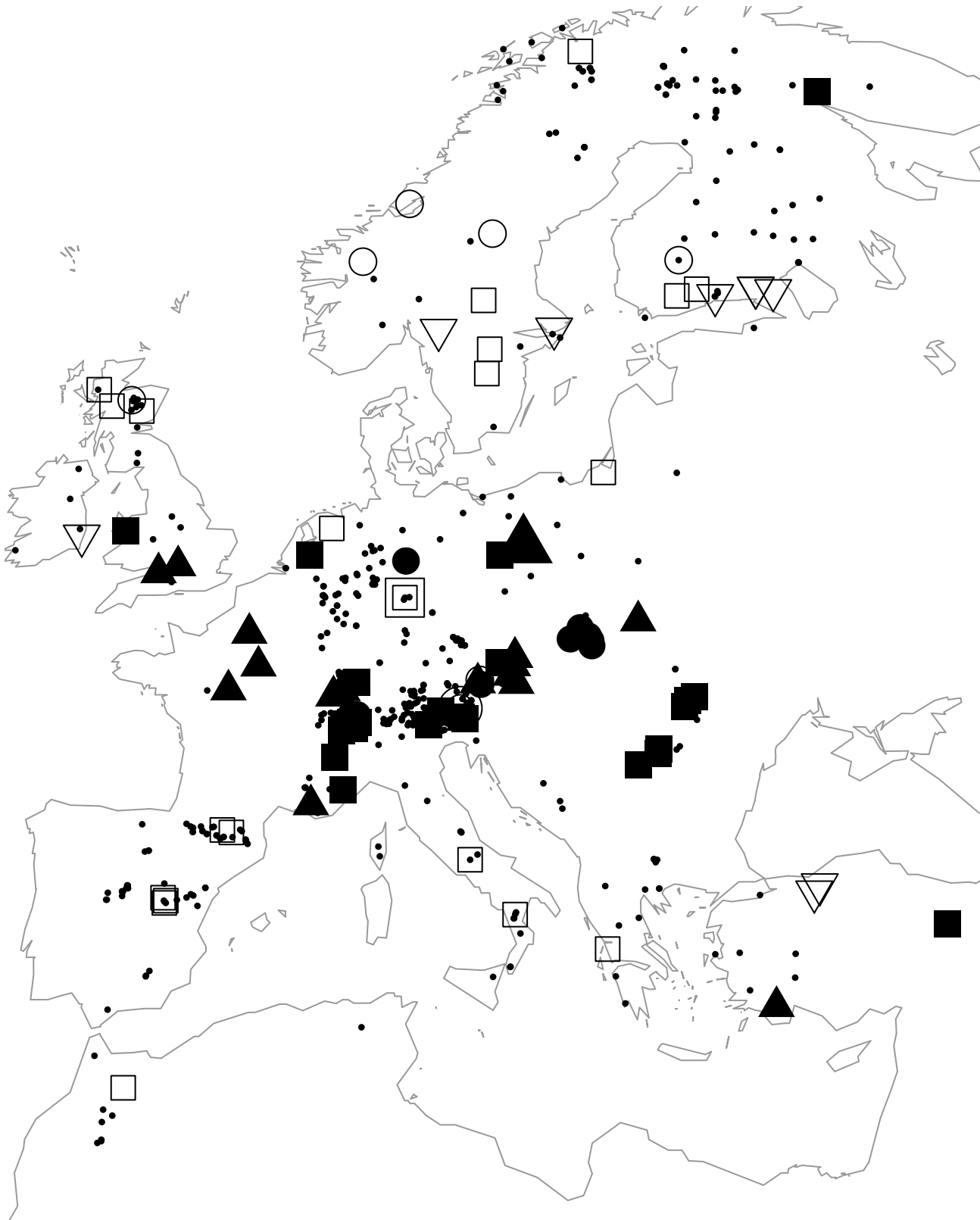
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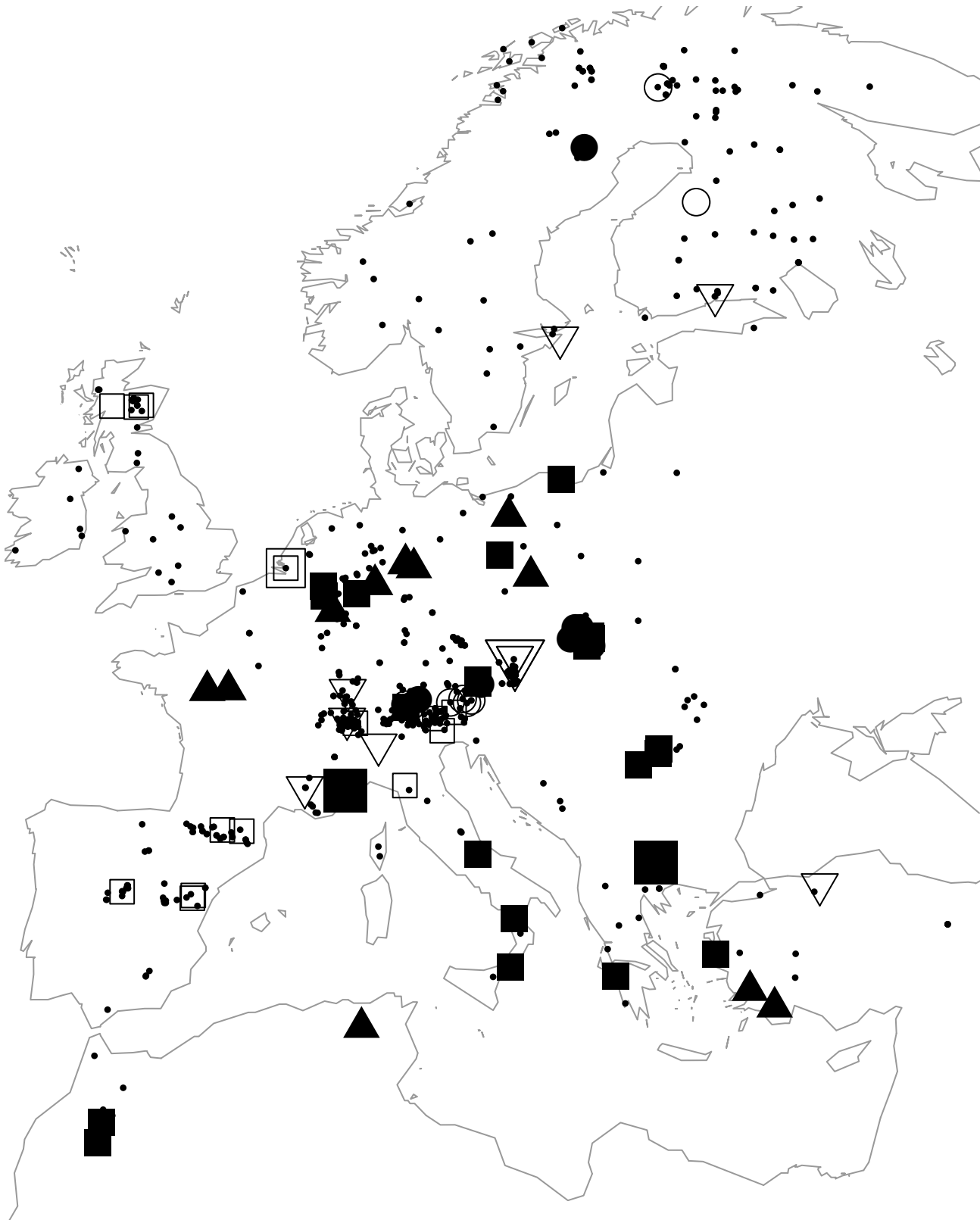
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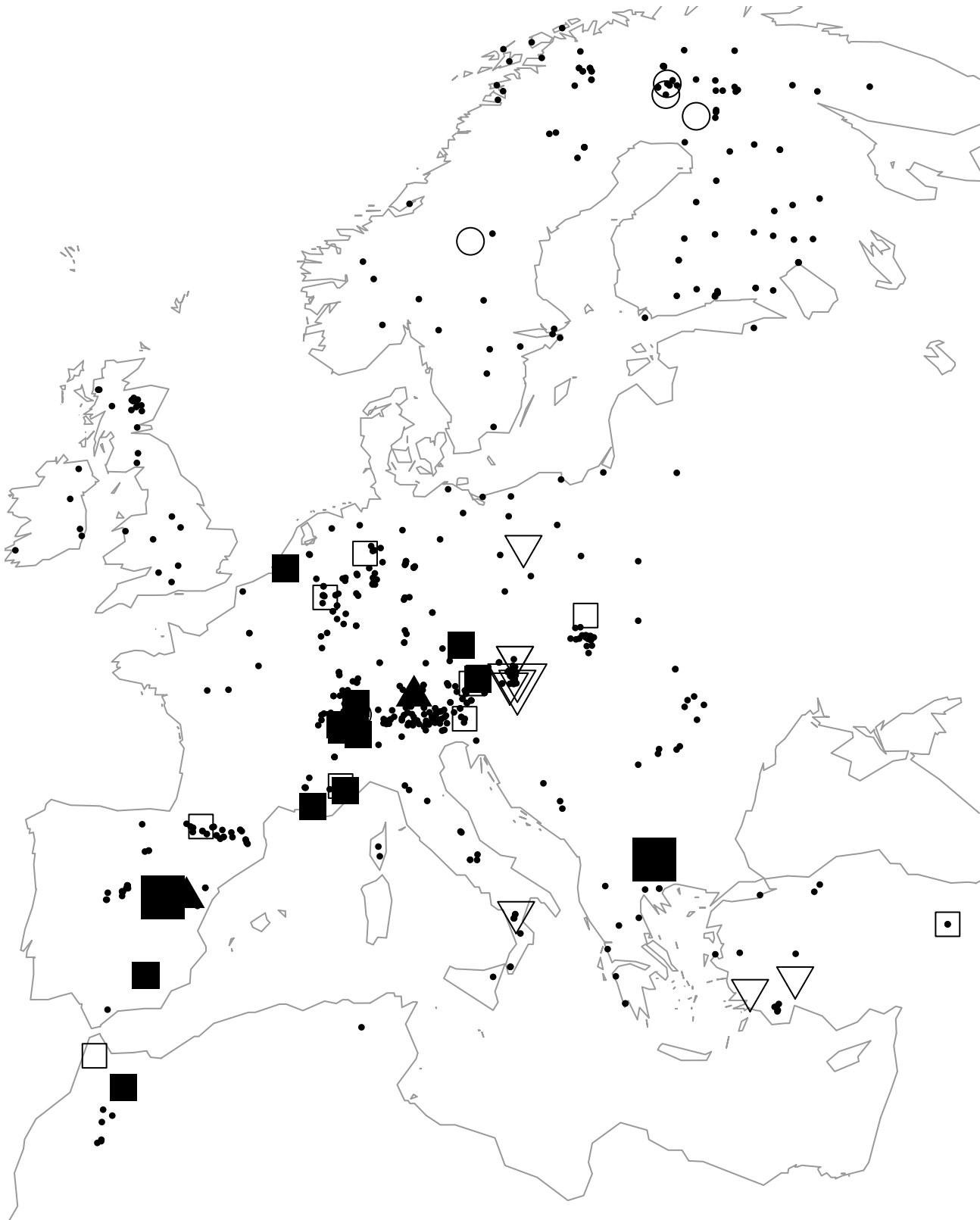
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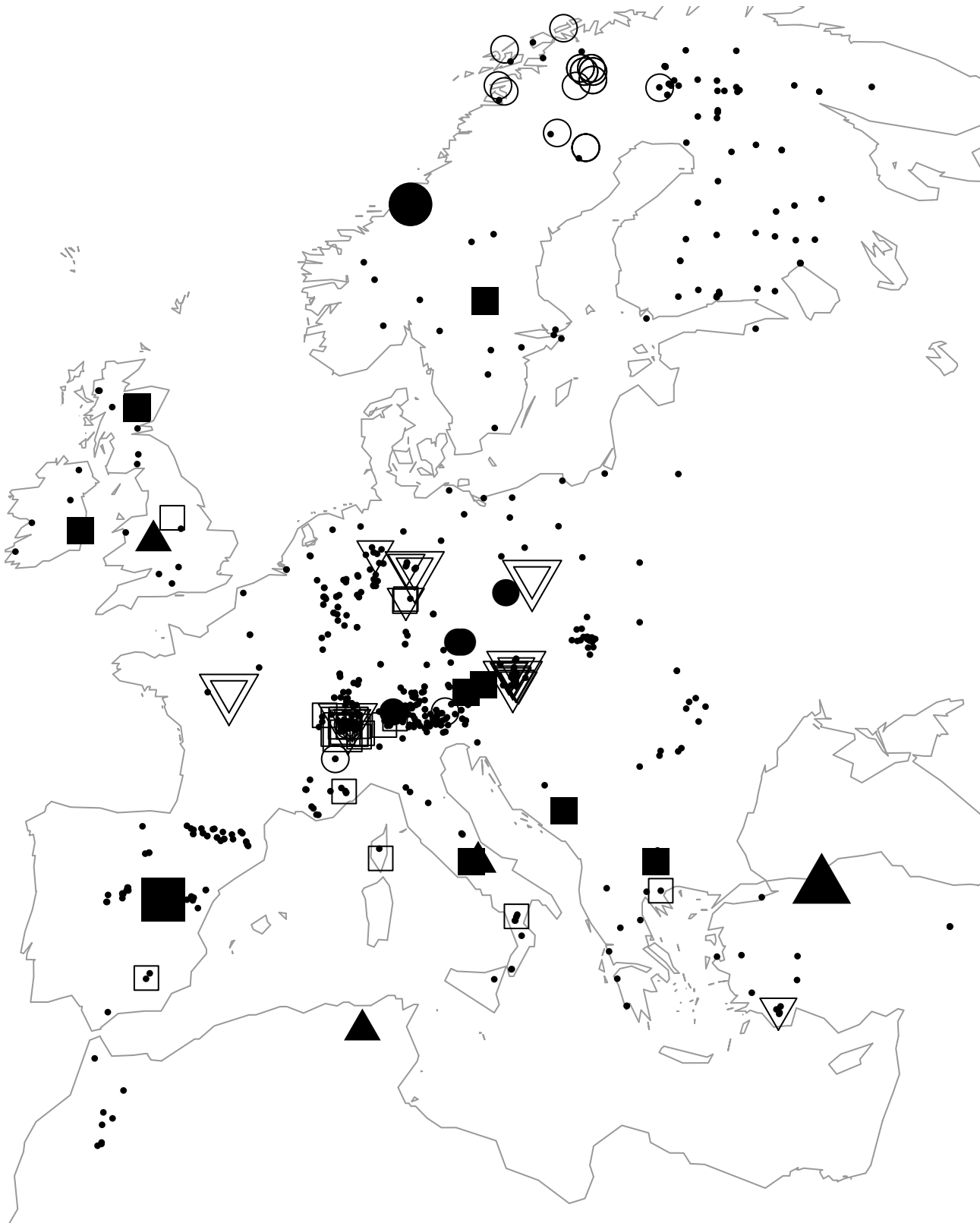
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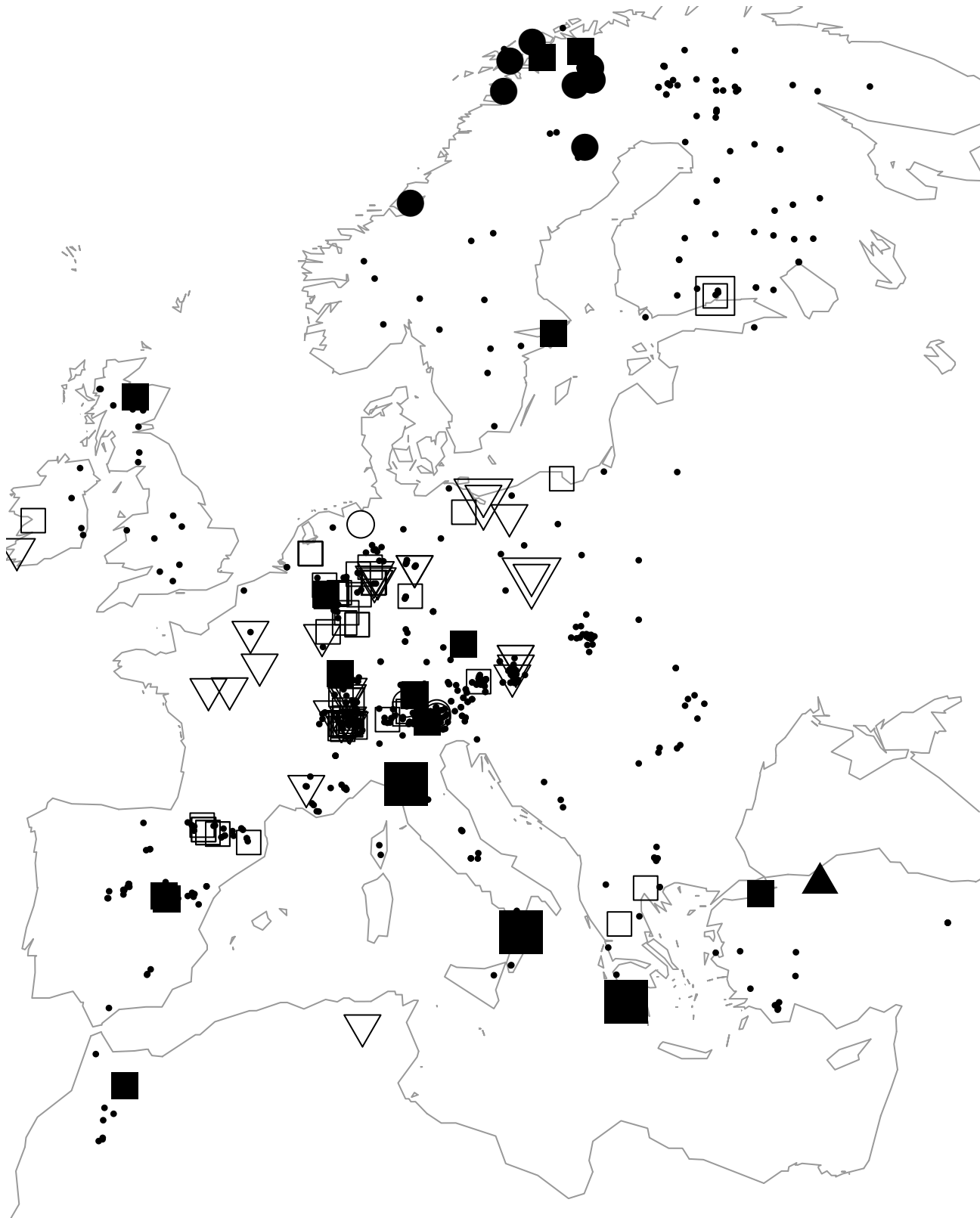
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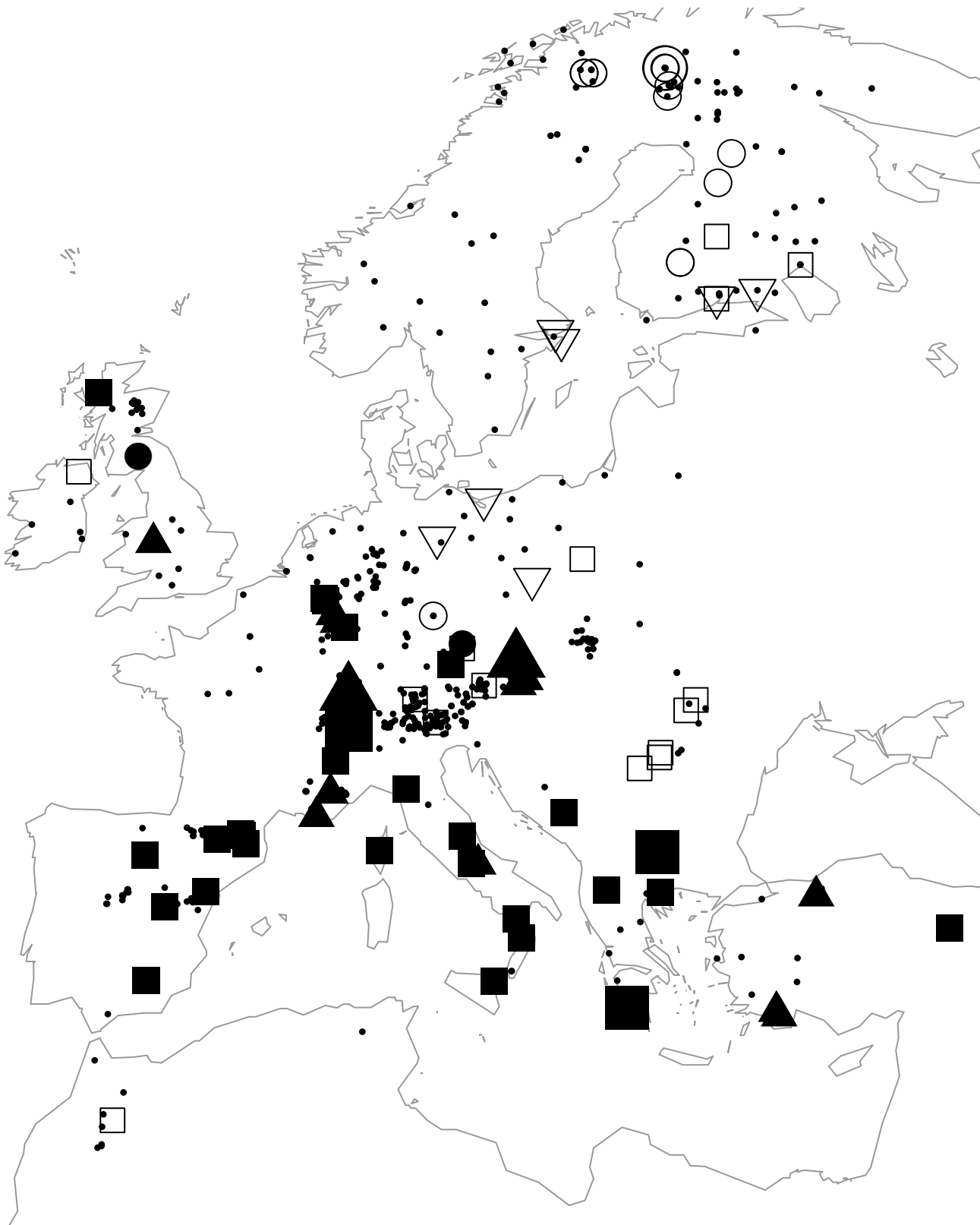
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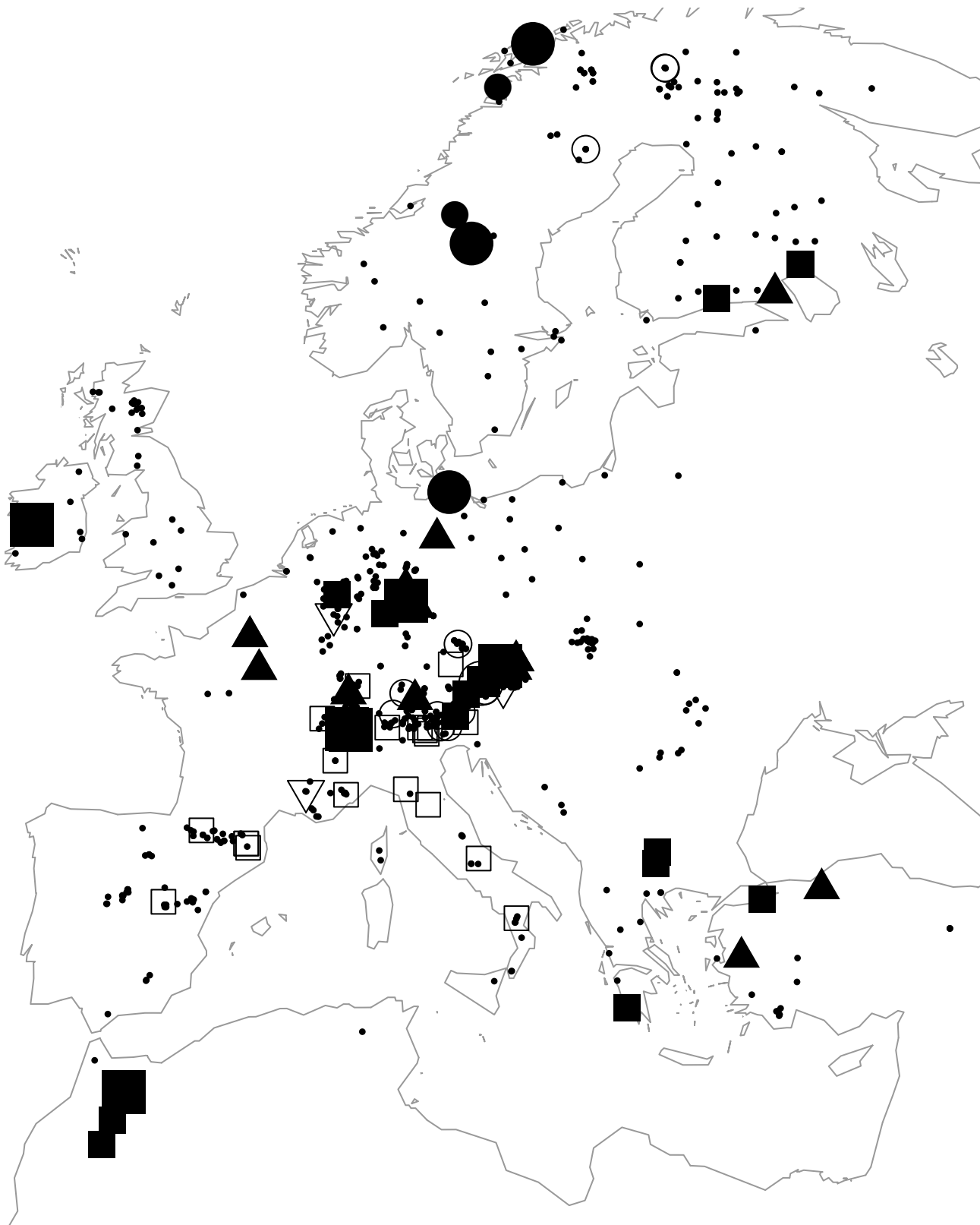
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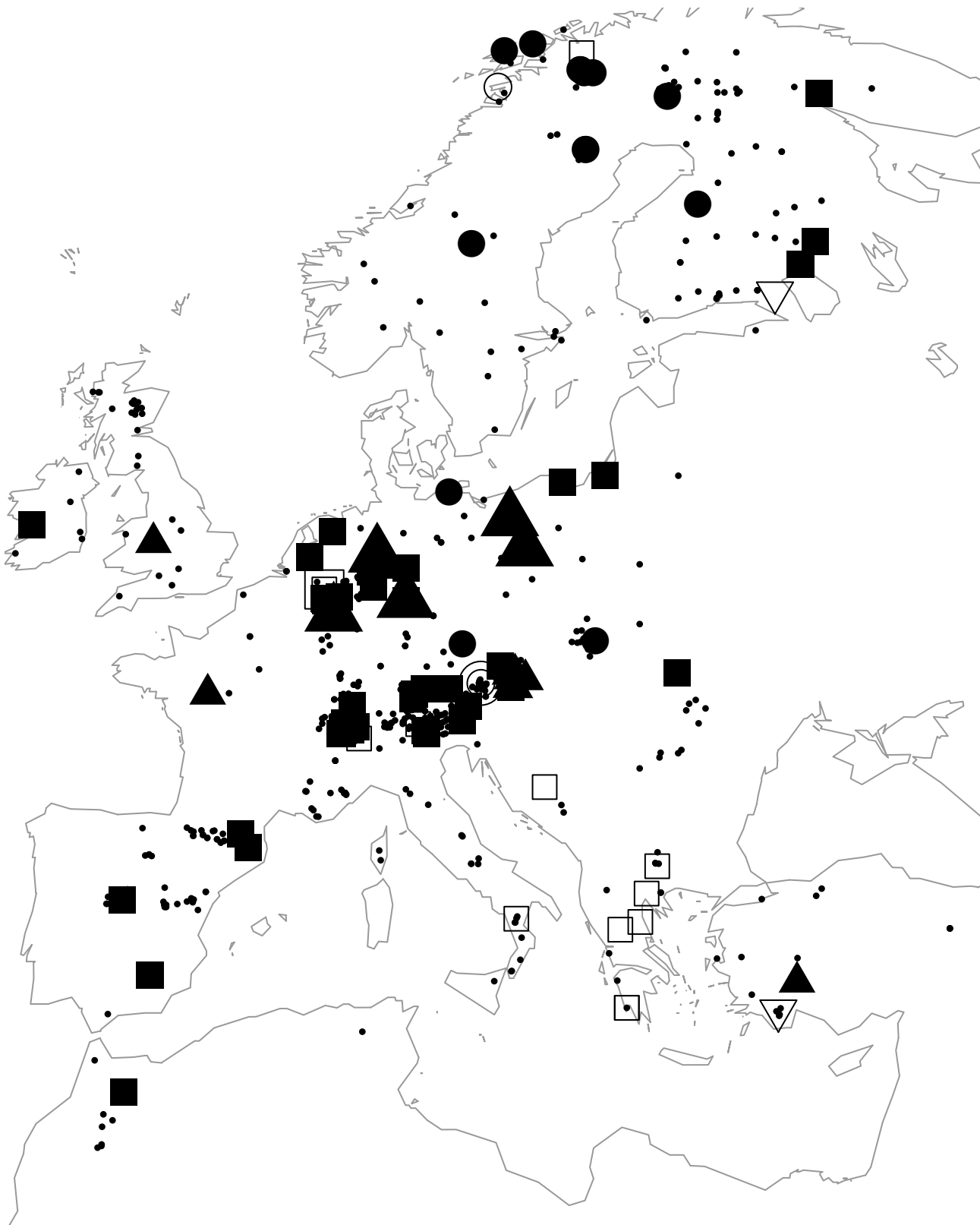
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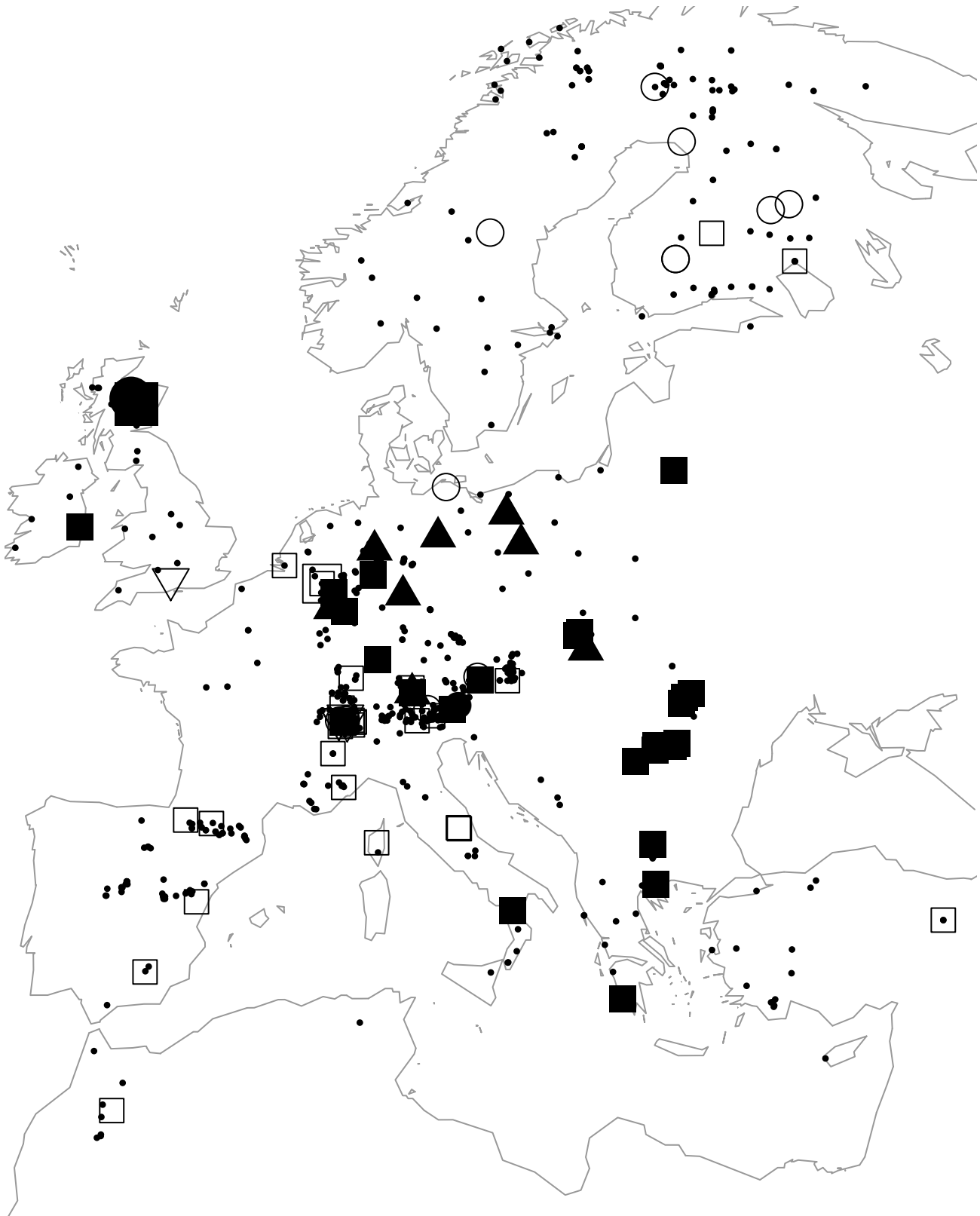
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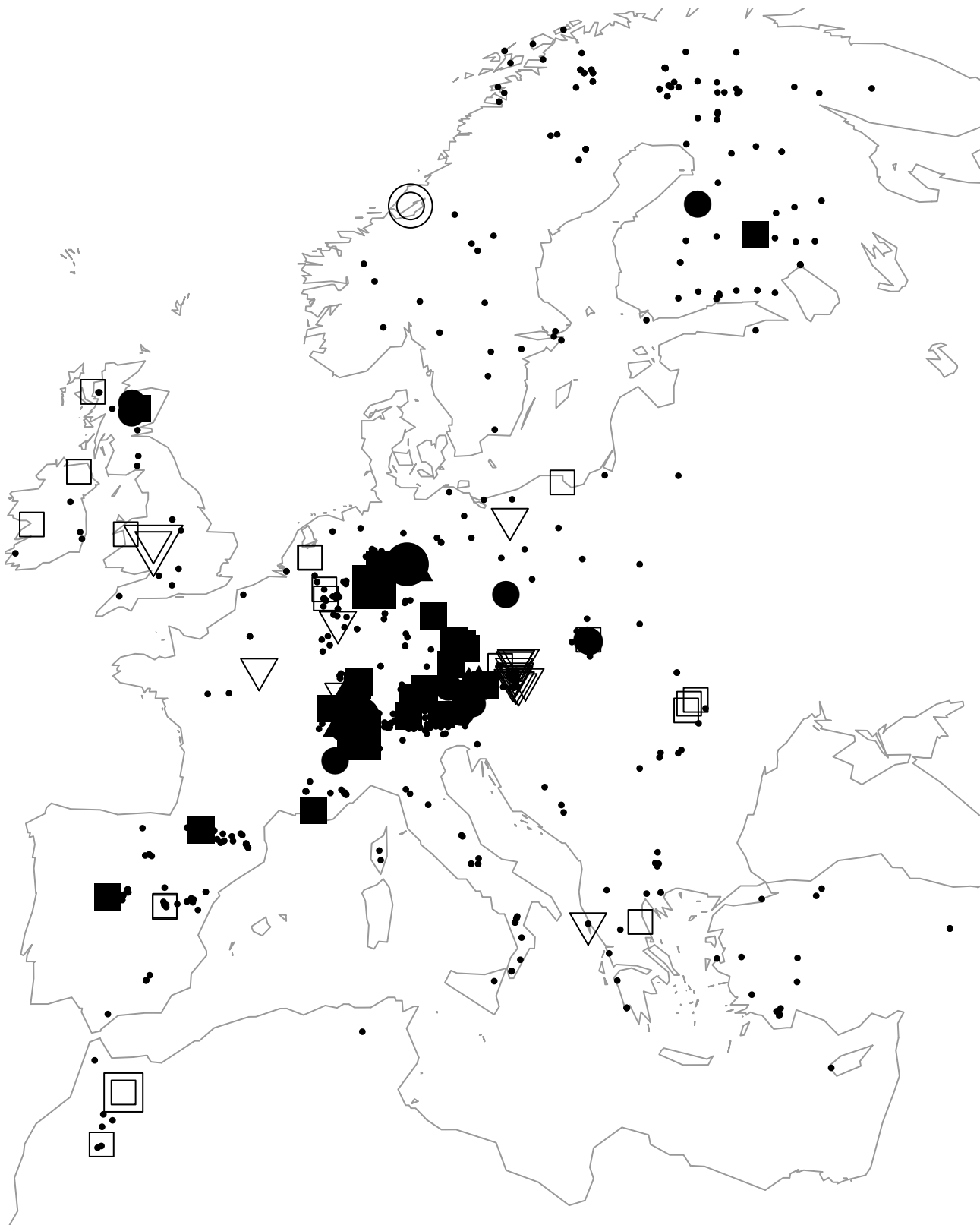
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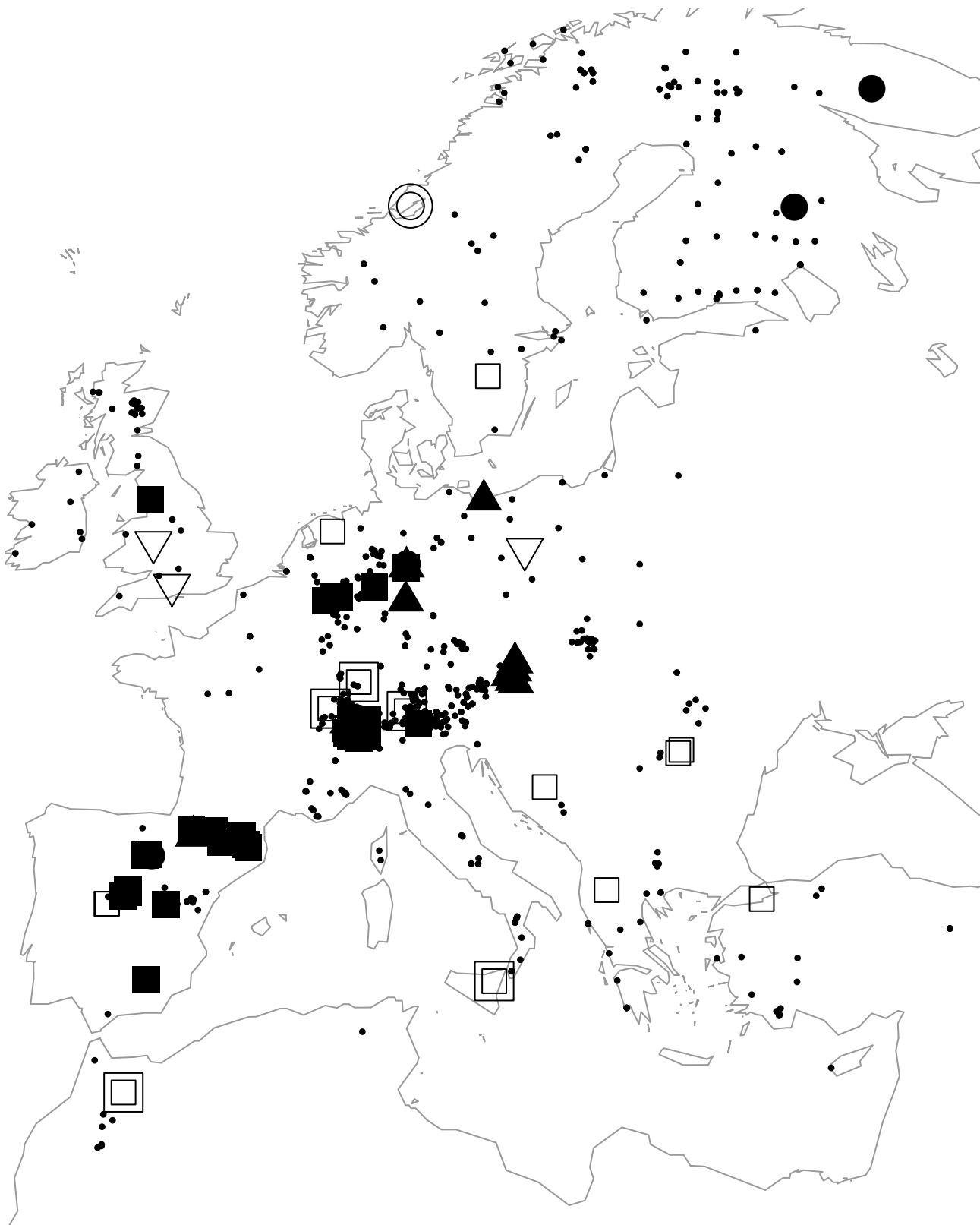
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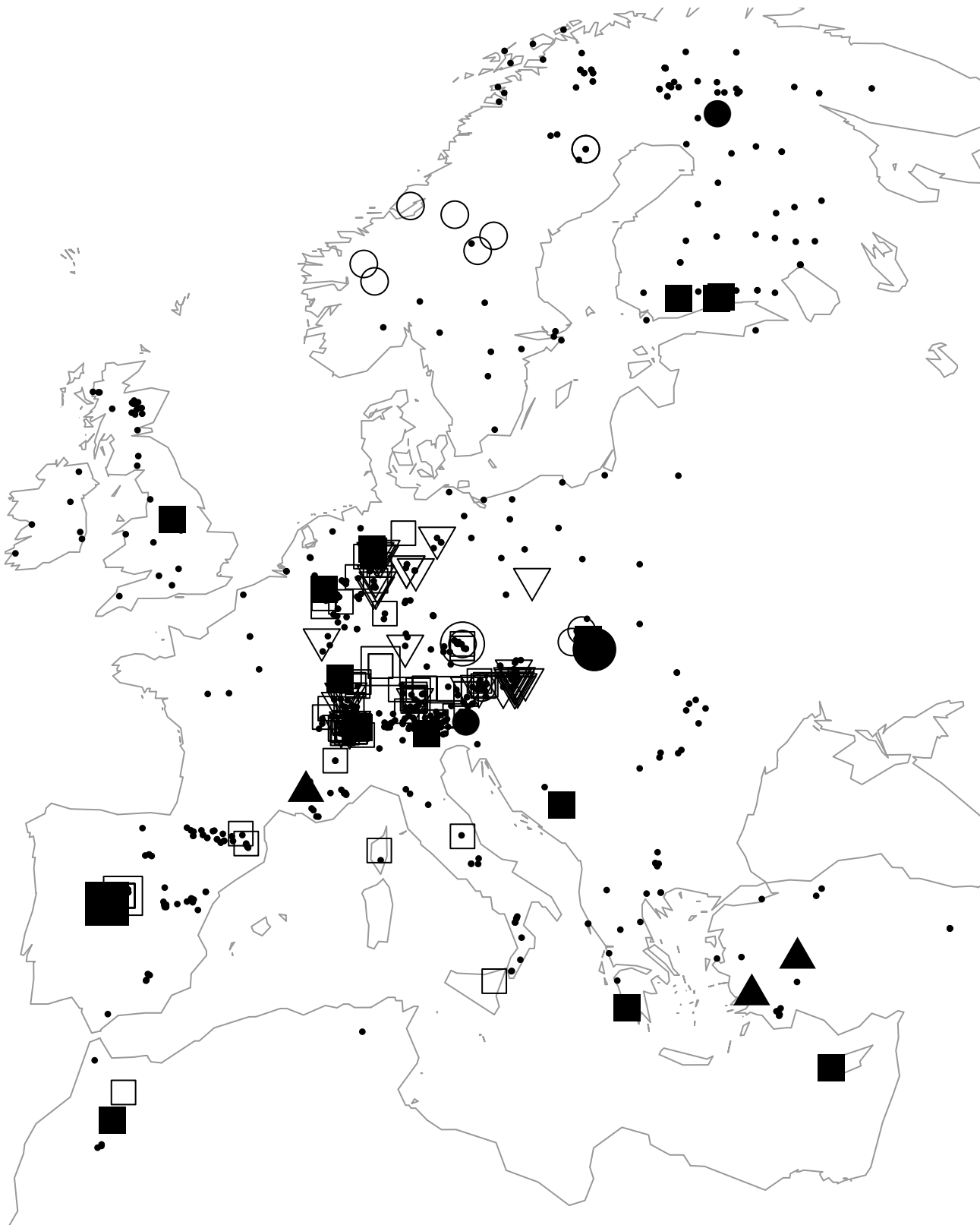
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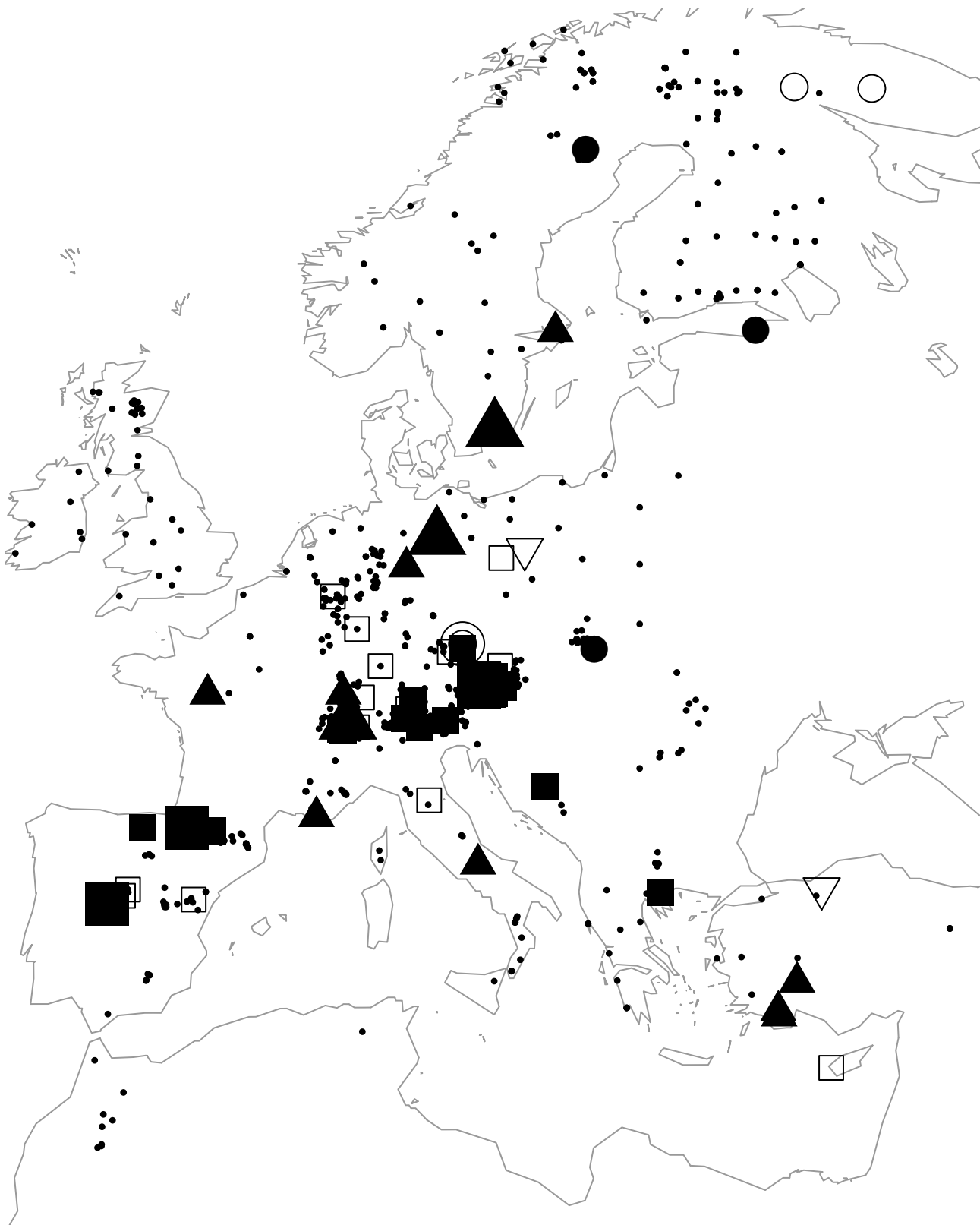
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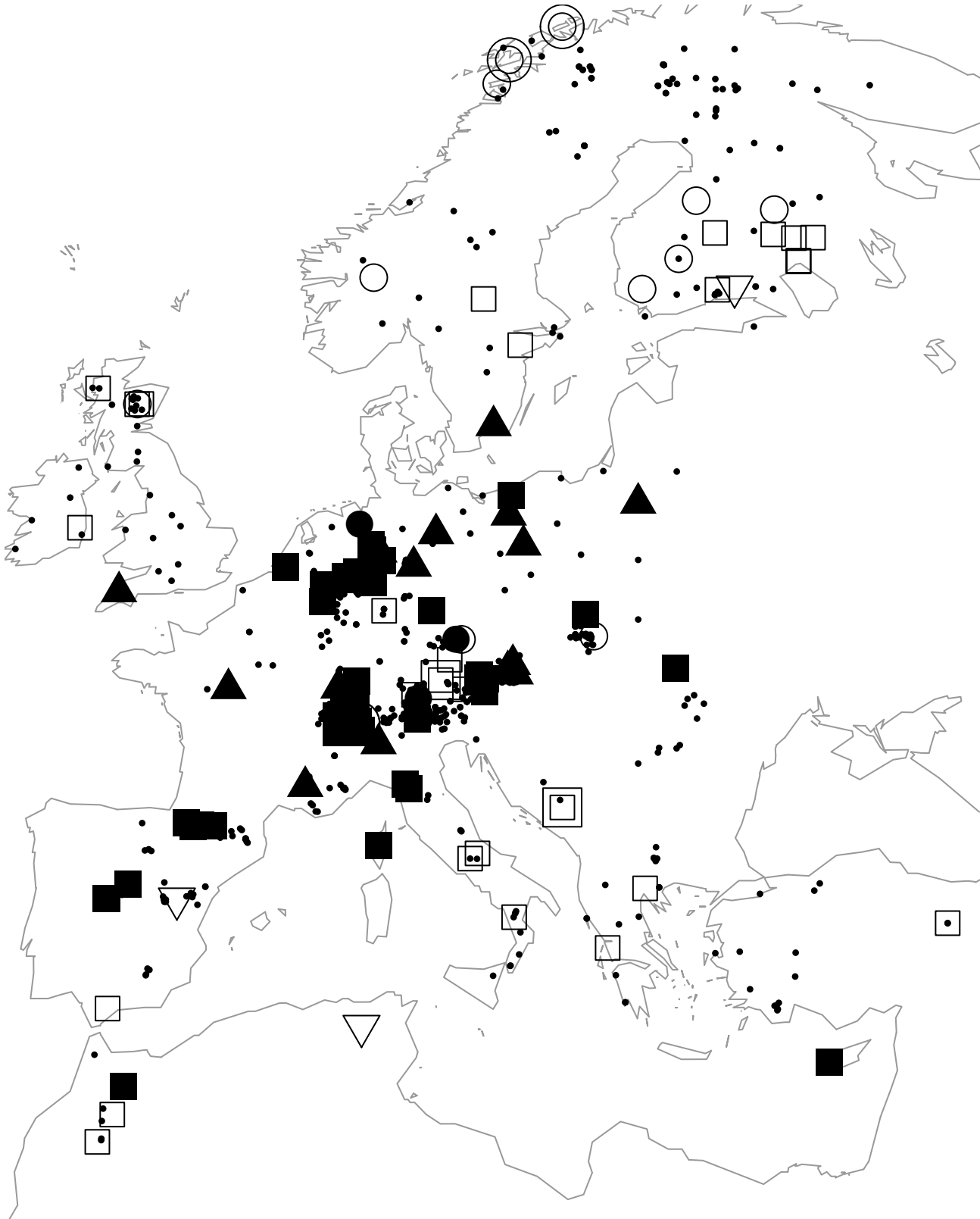
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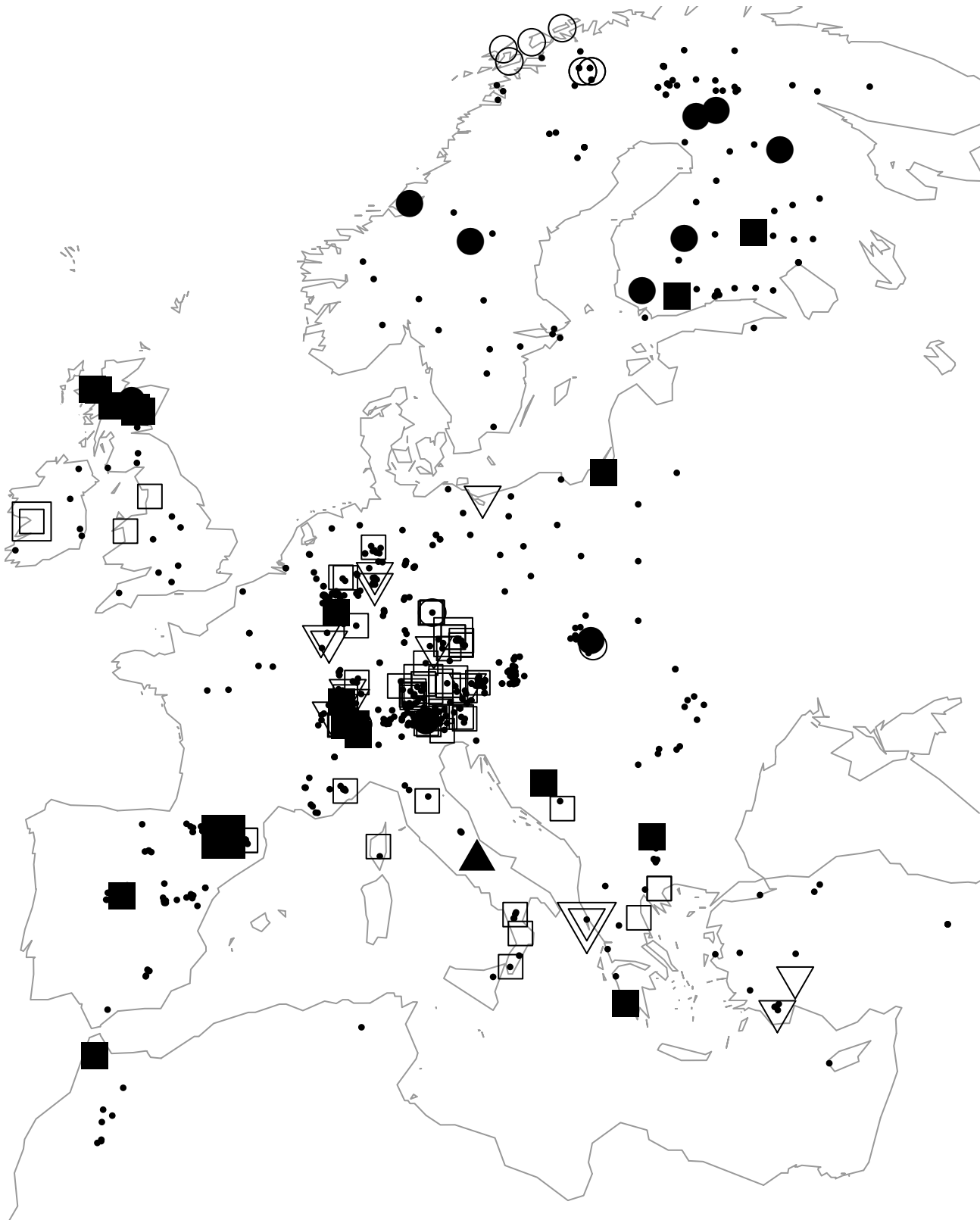
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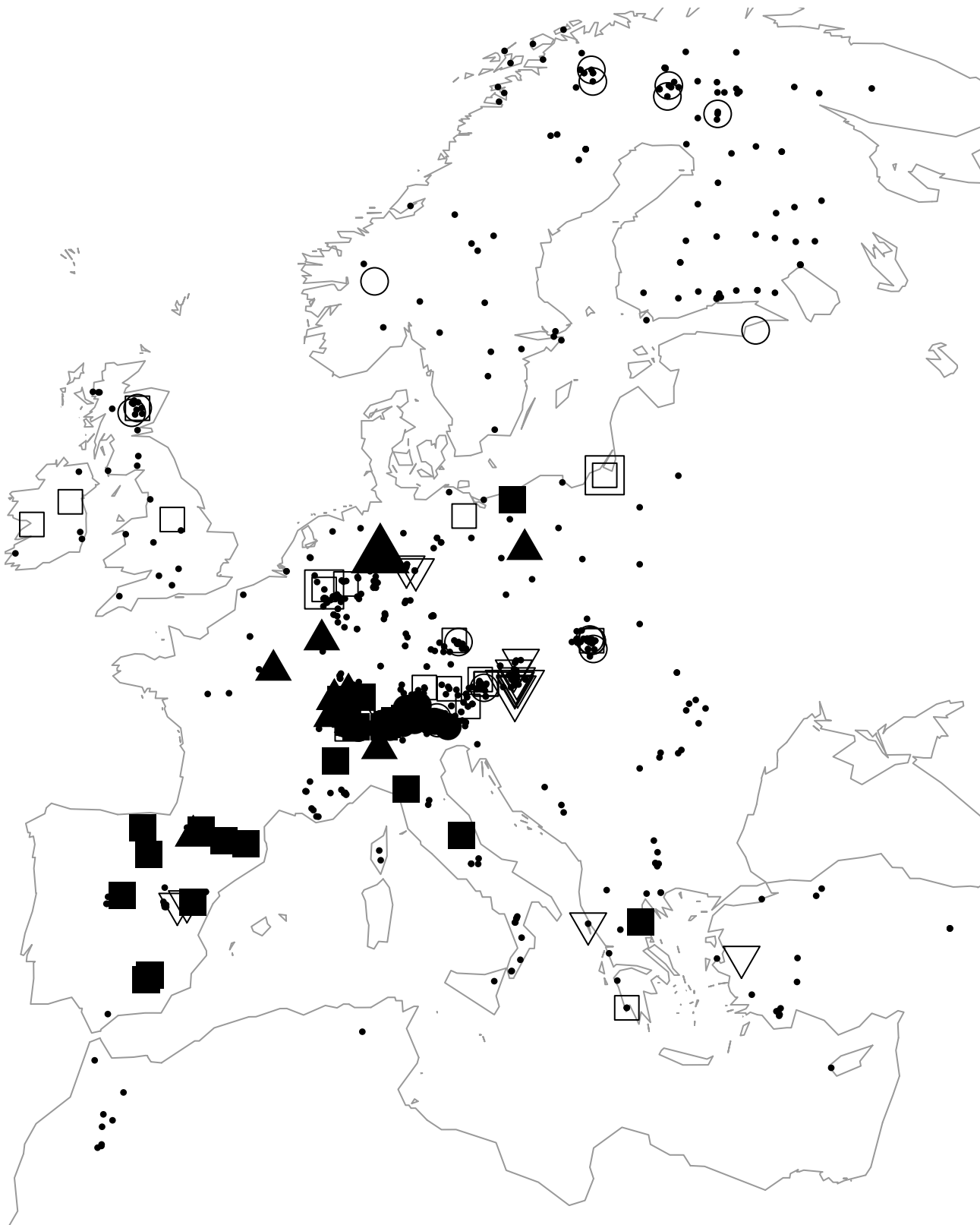
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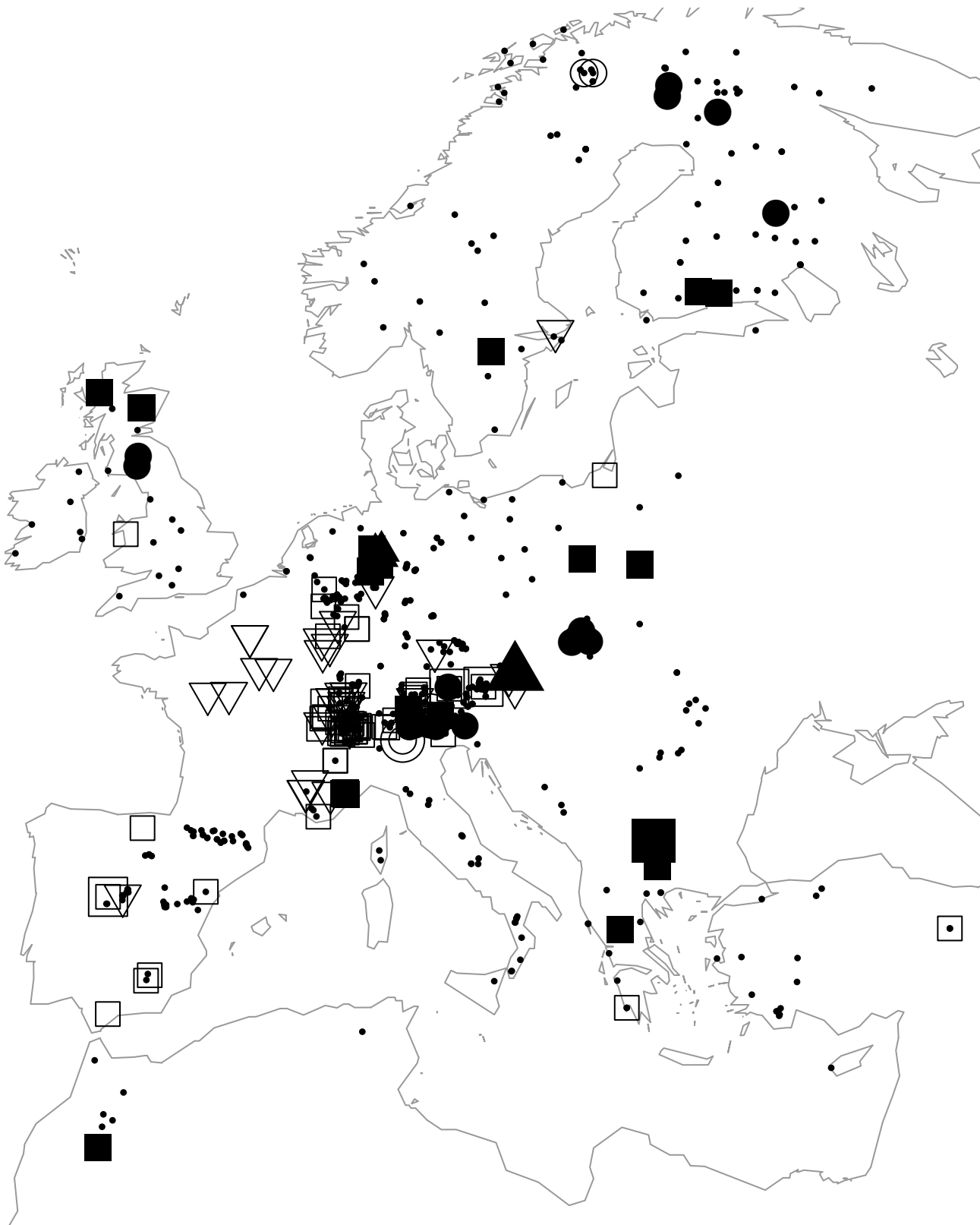
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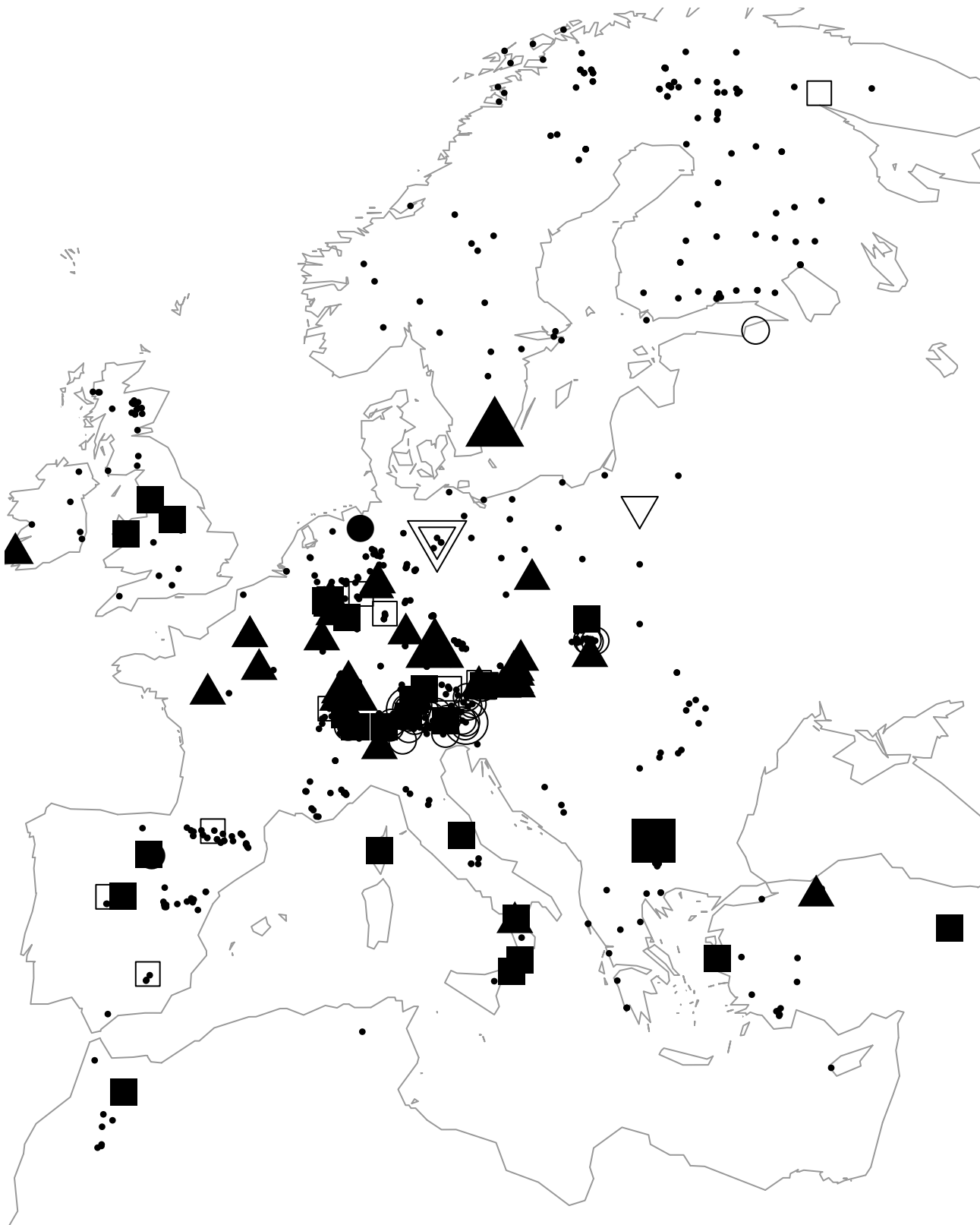
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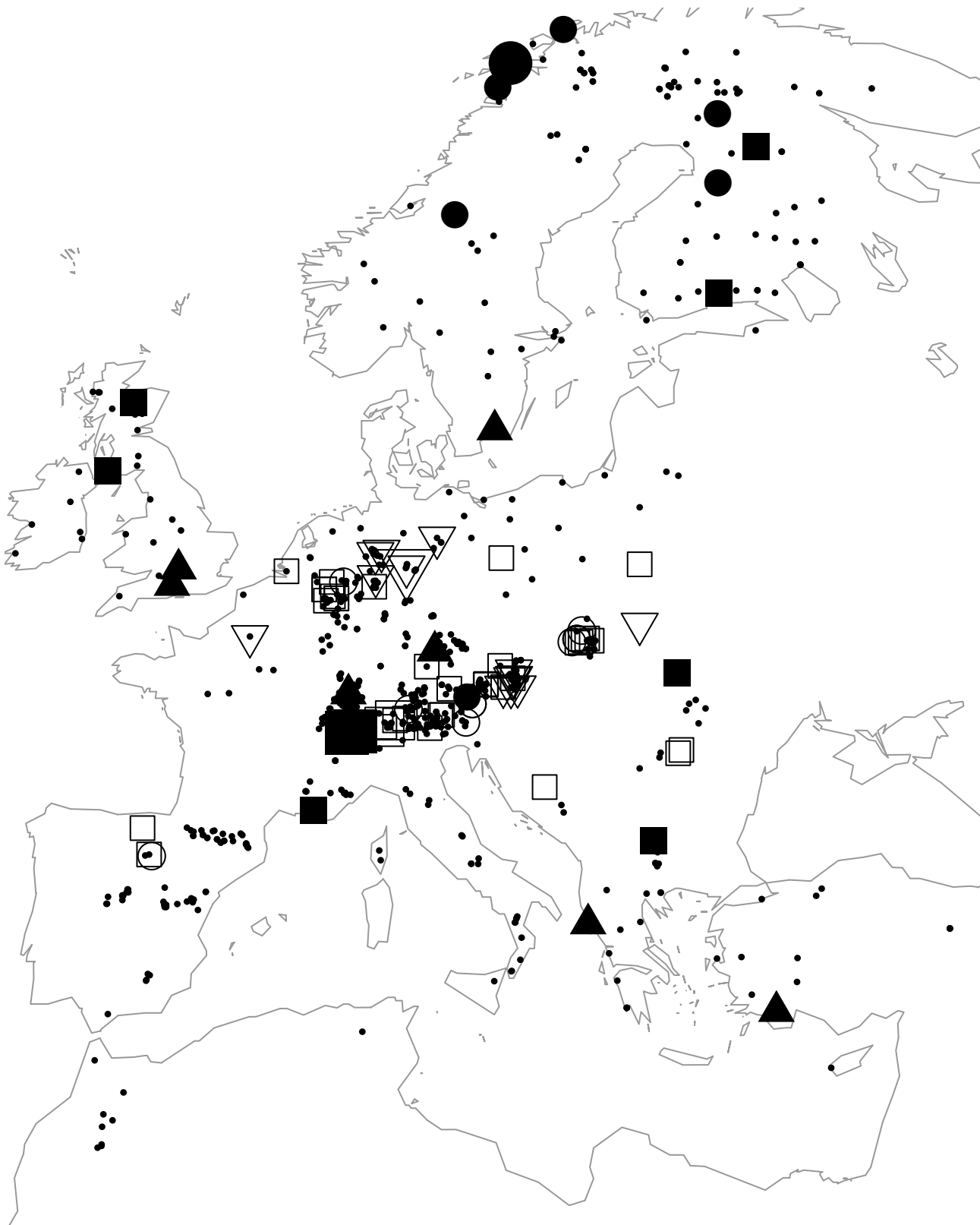
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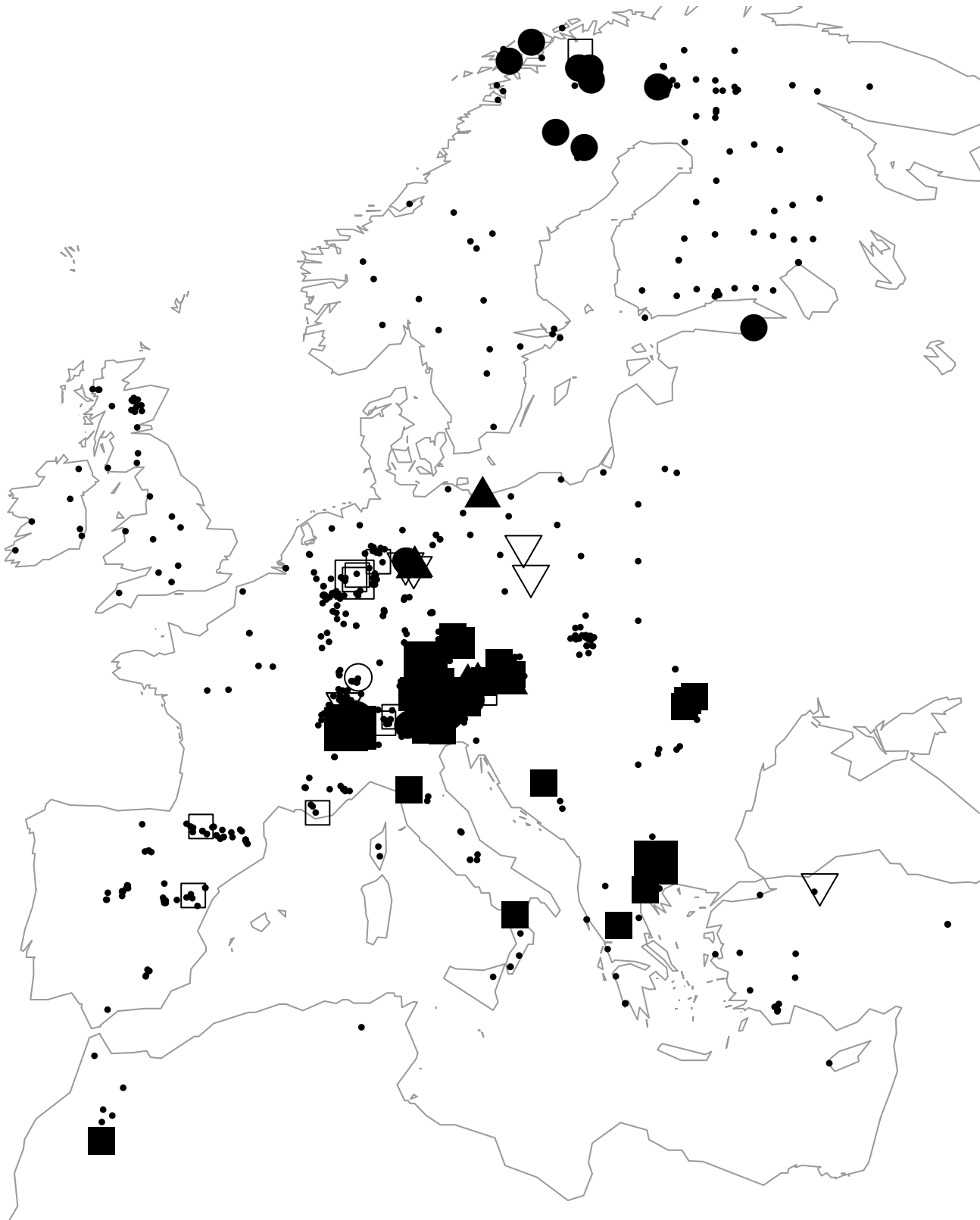
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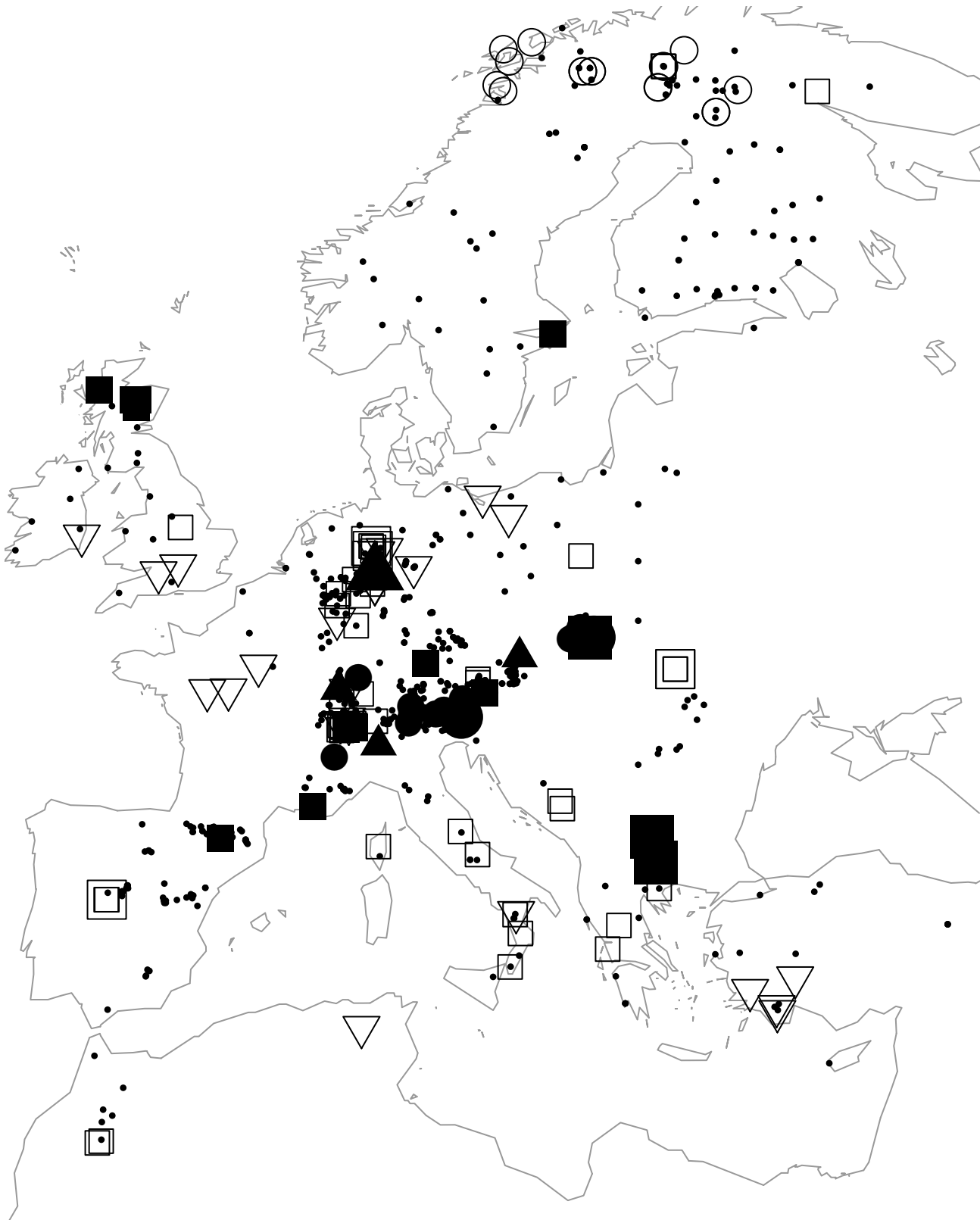
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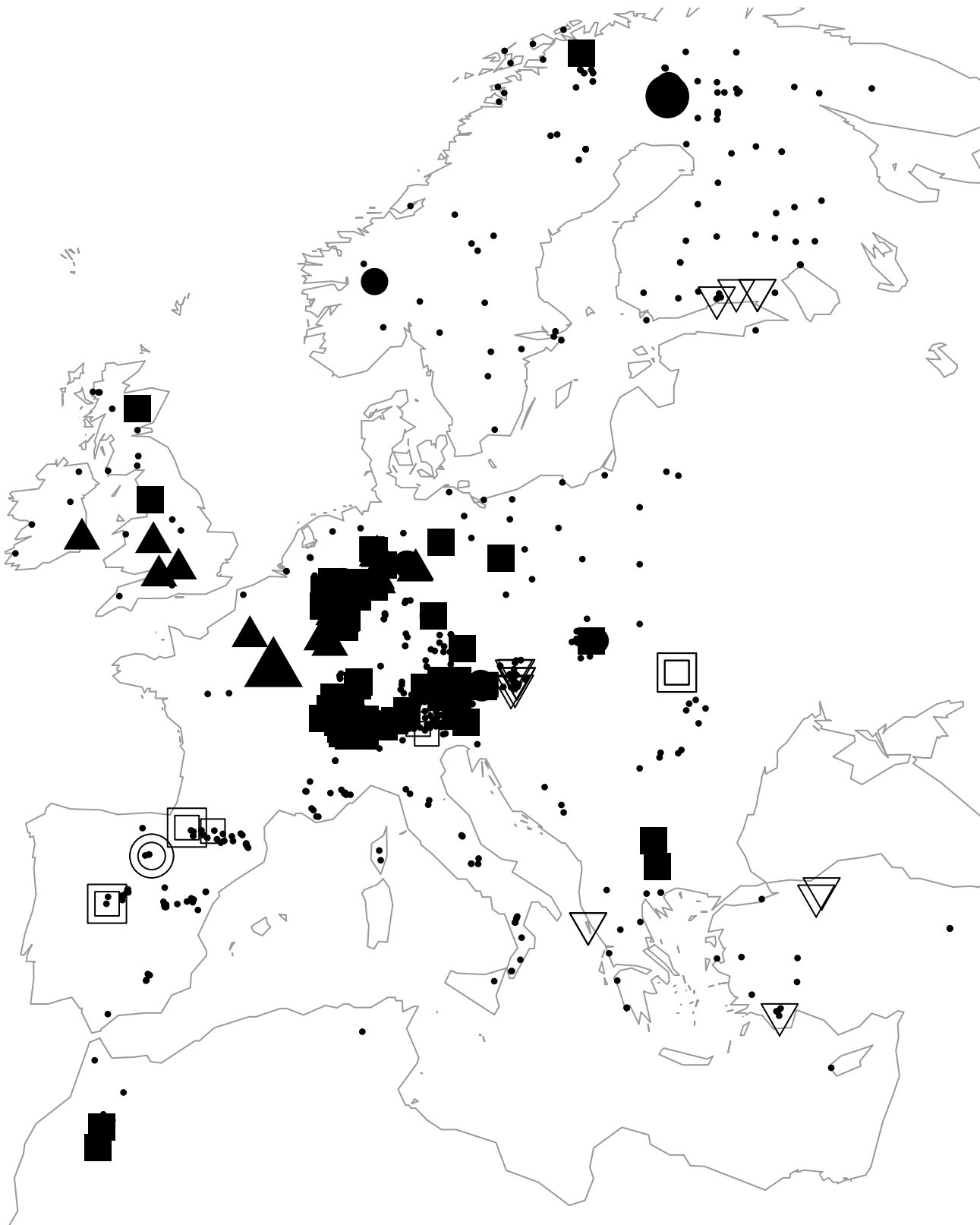
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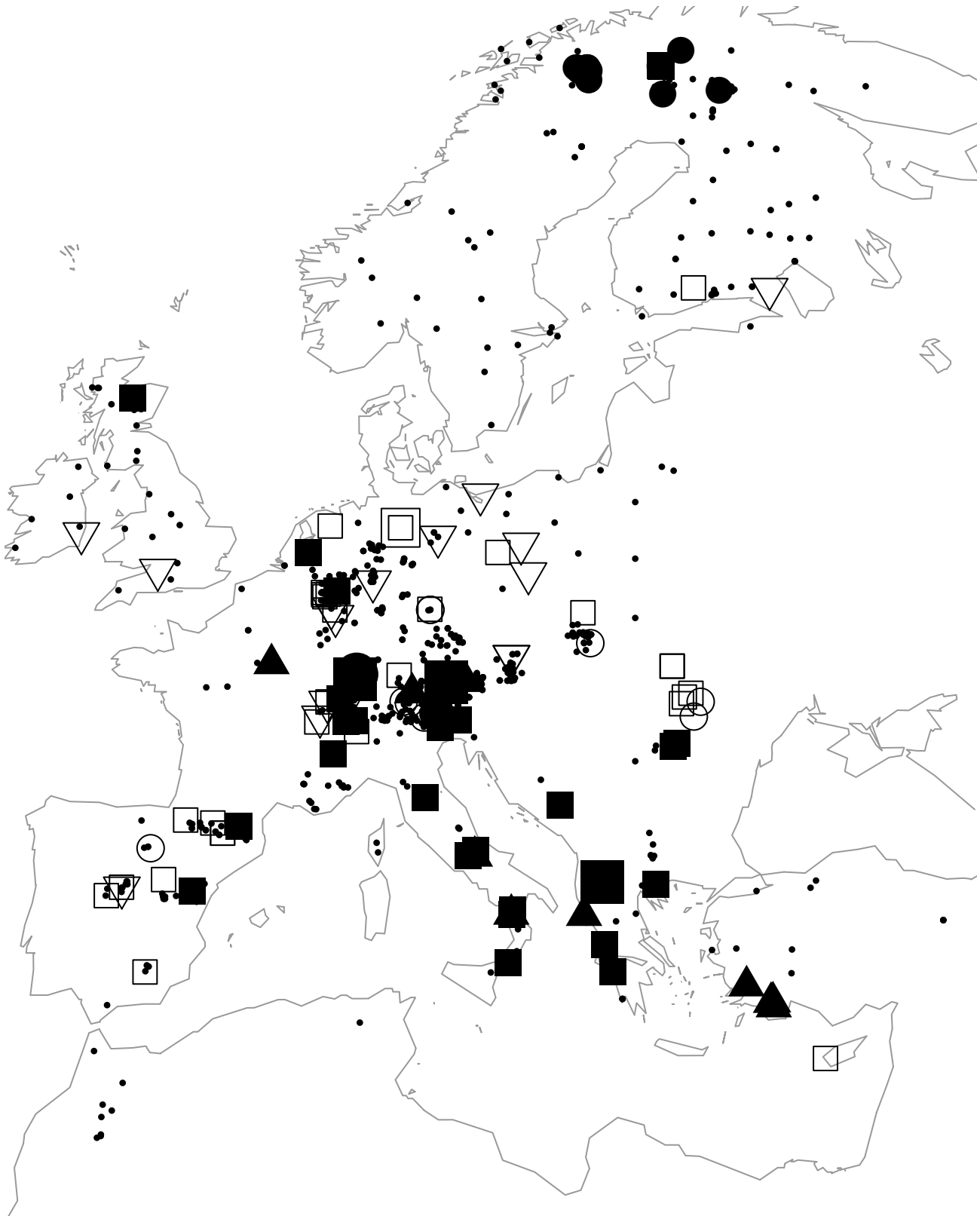
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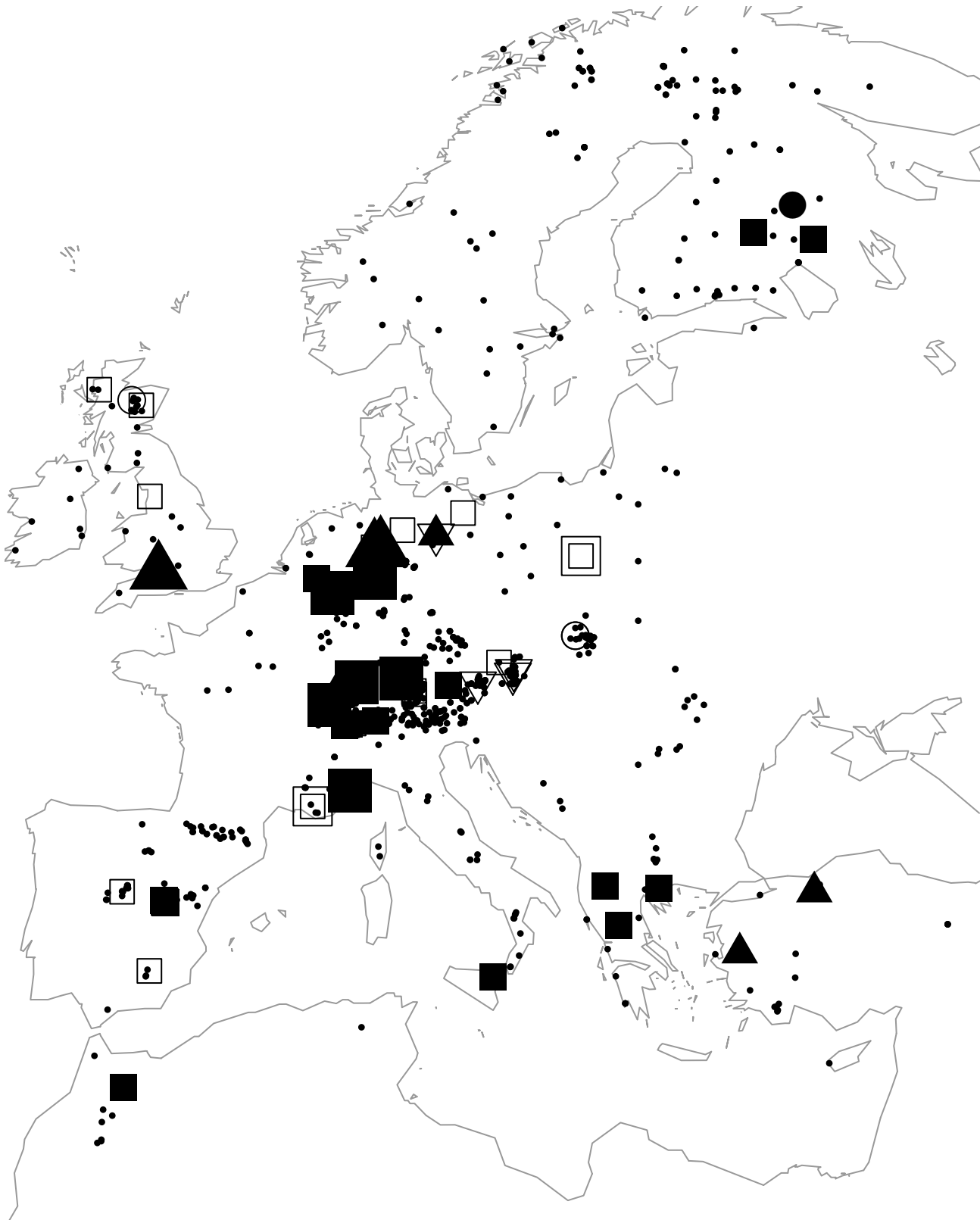
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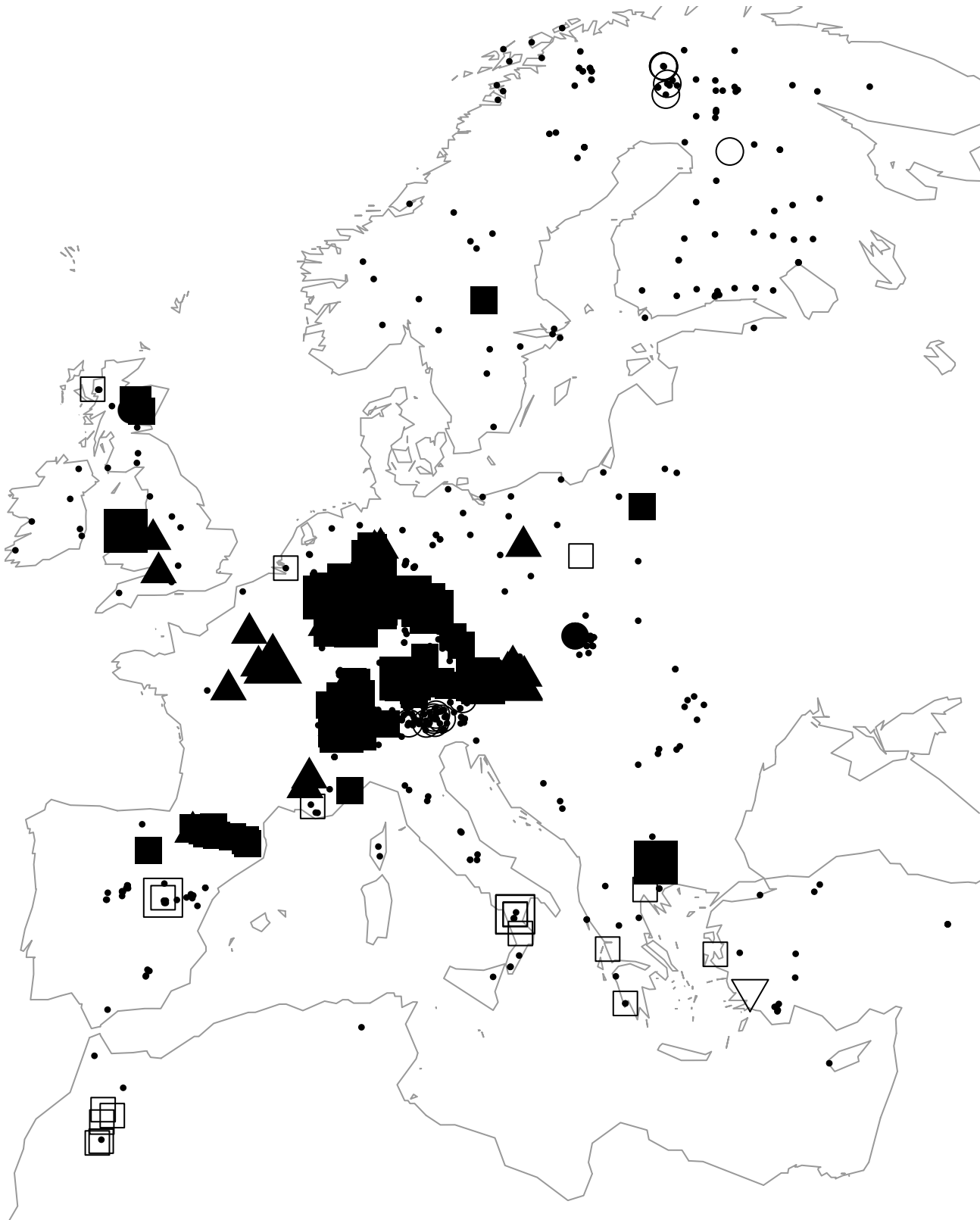
growth anomalies1876



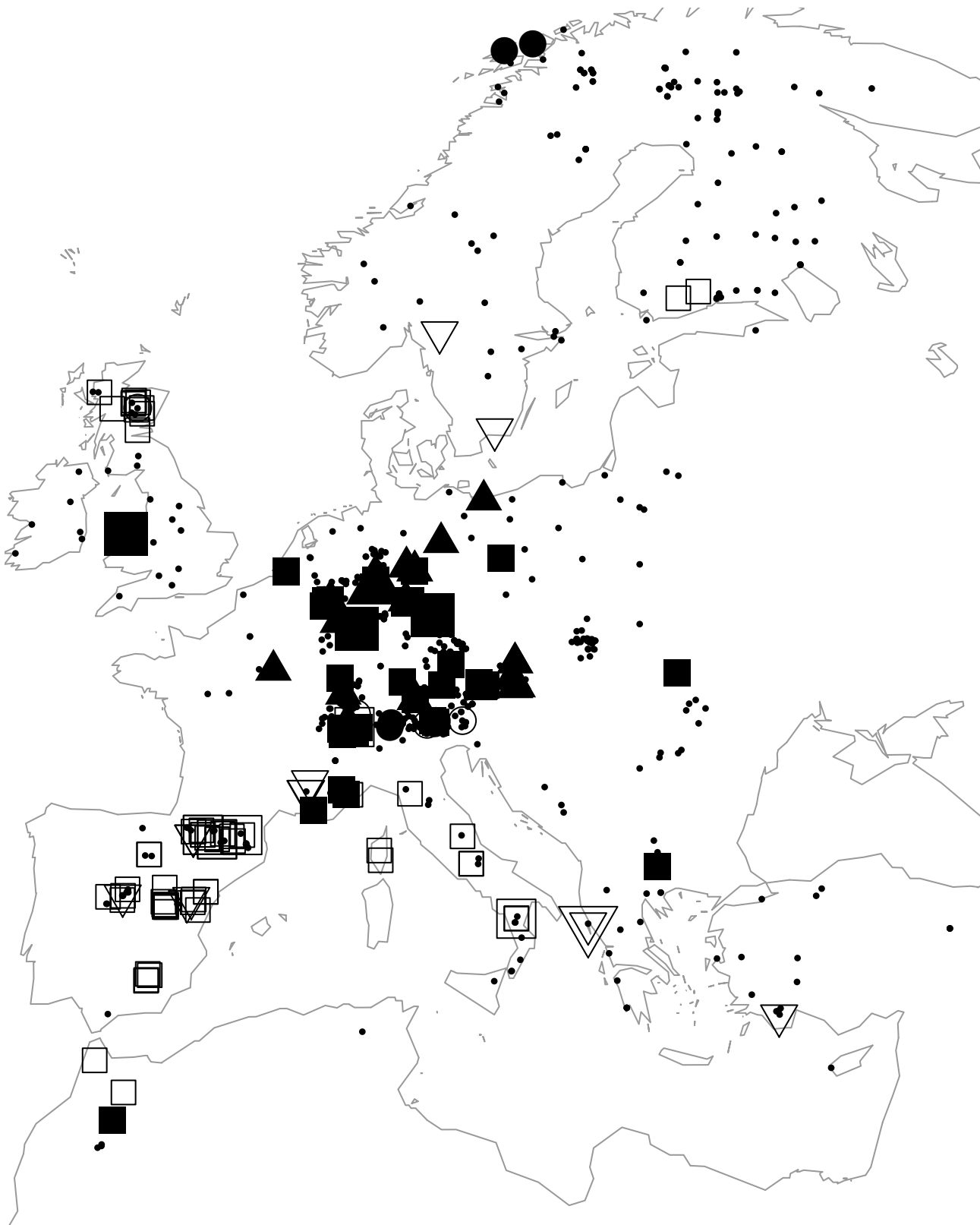
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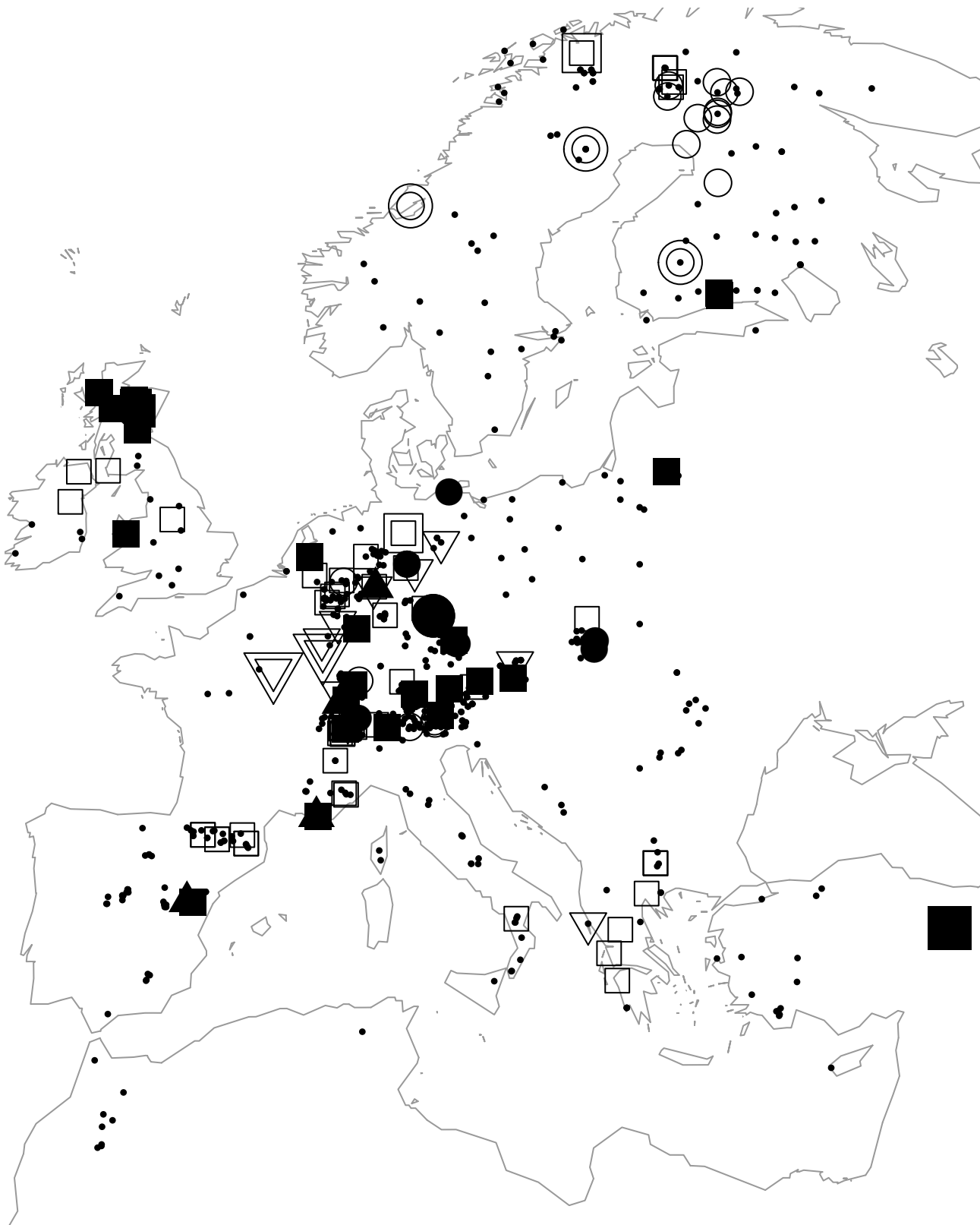
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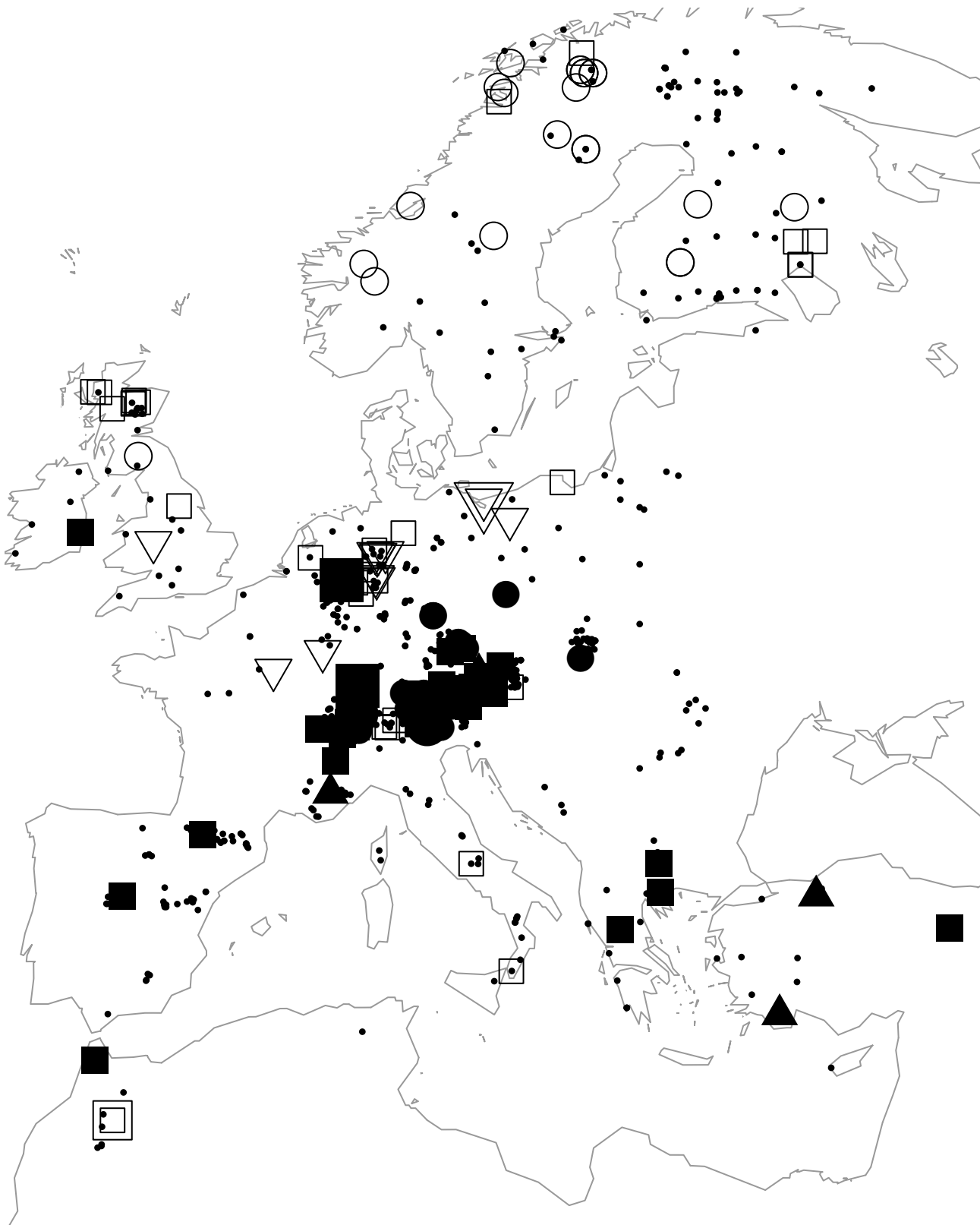
growth anomalies1879



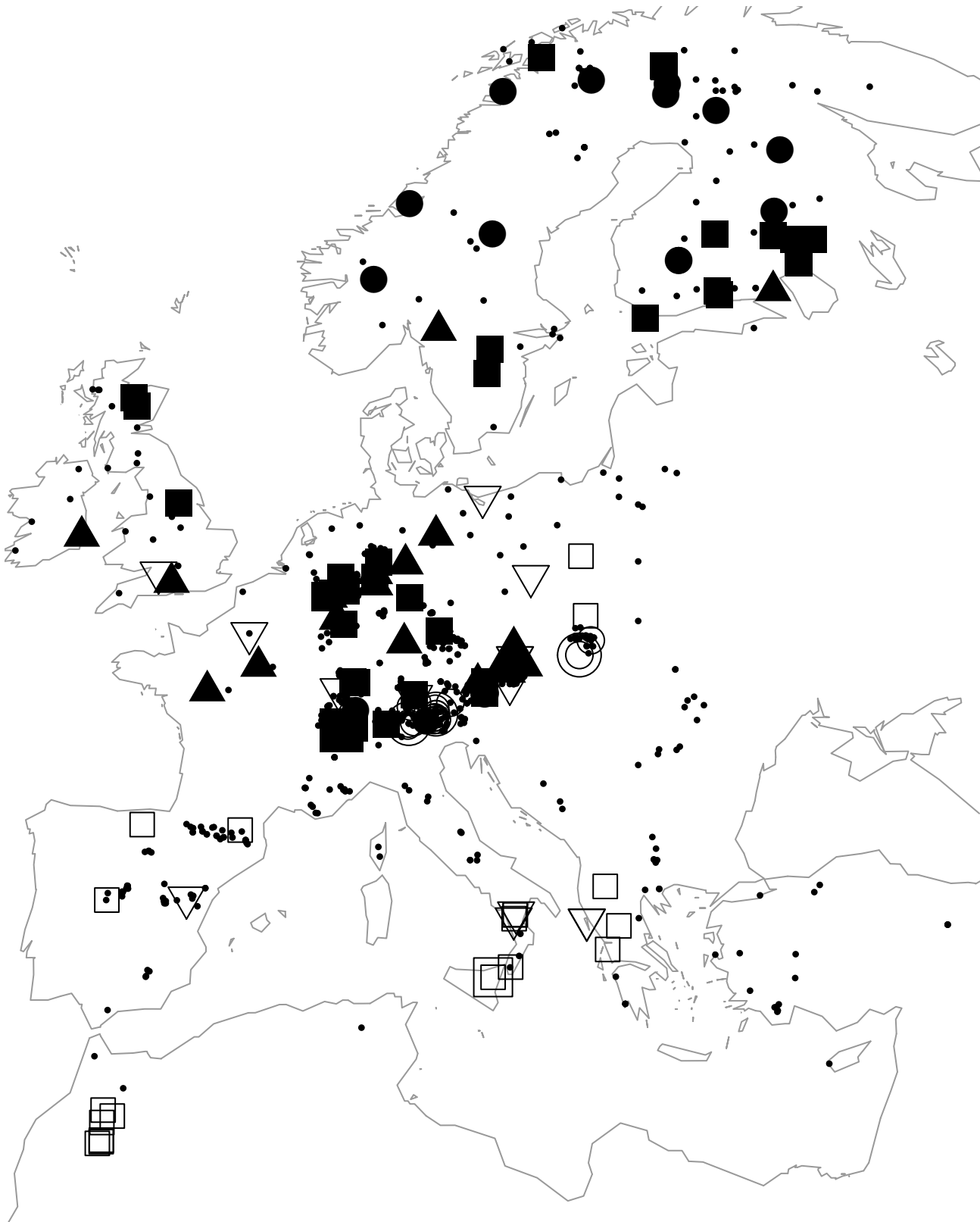
growth anomalies1880



growth anomalies1881



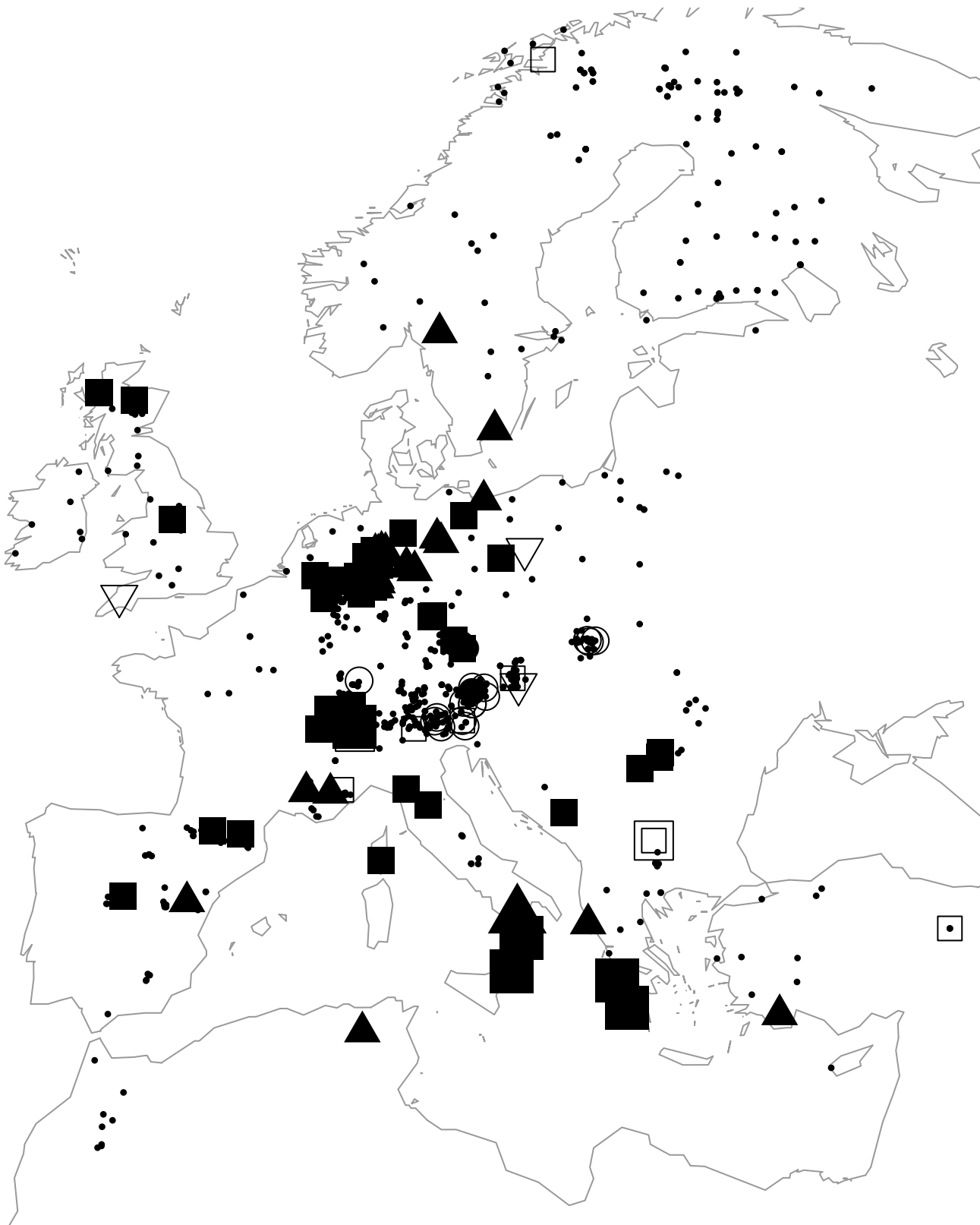
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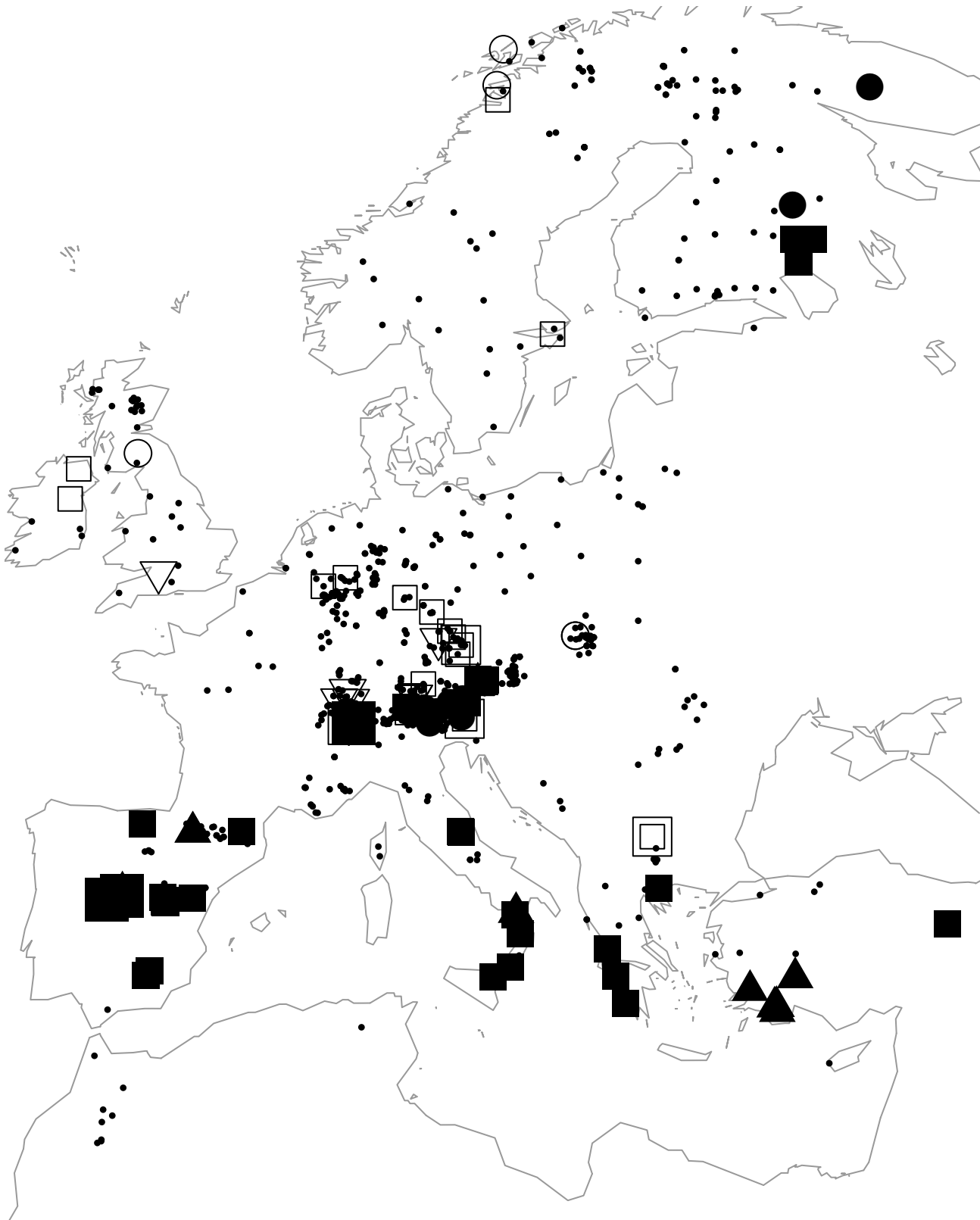
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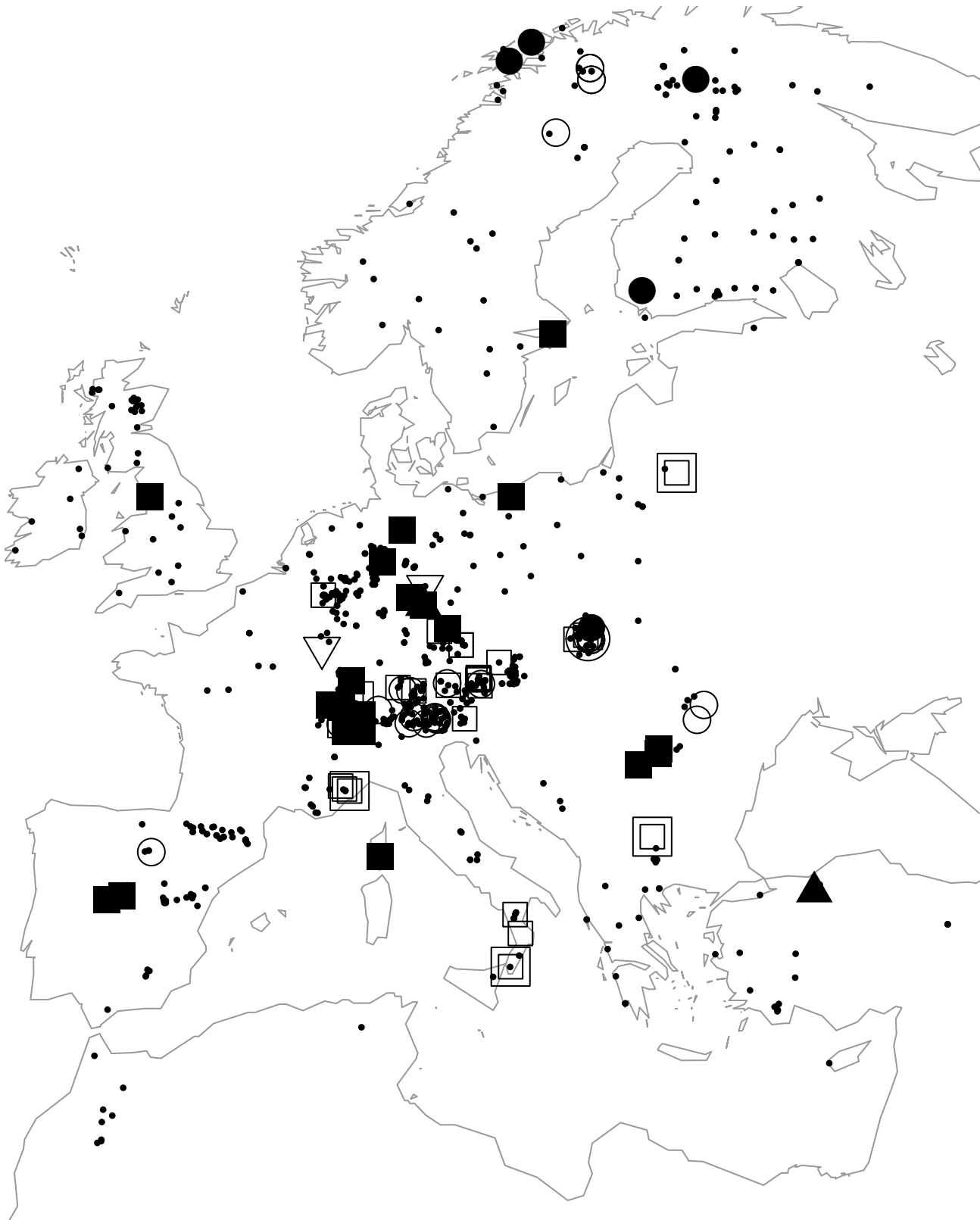
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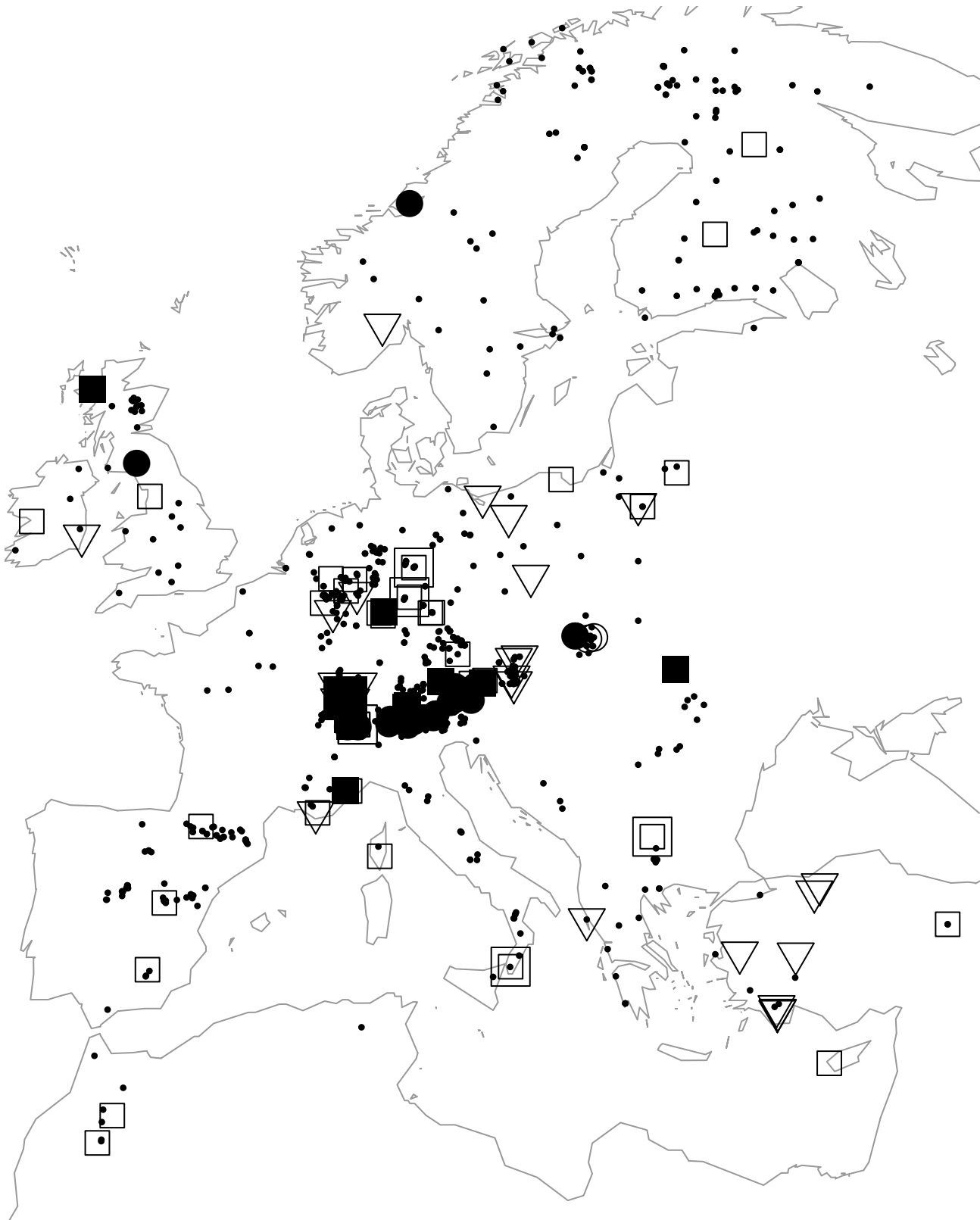
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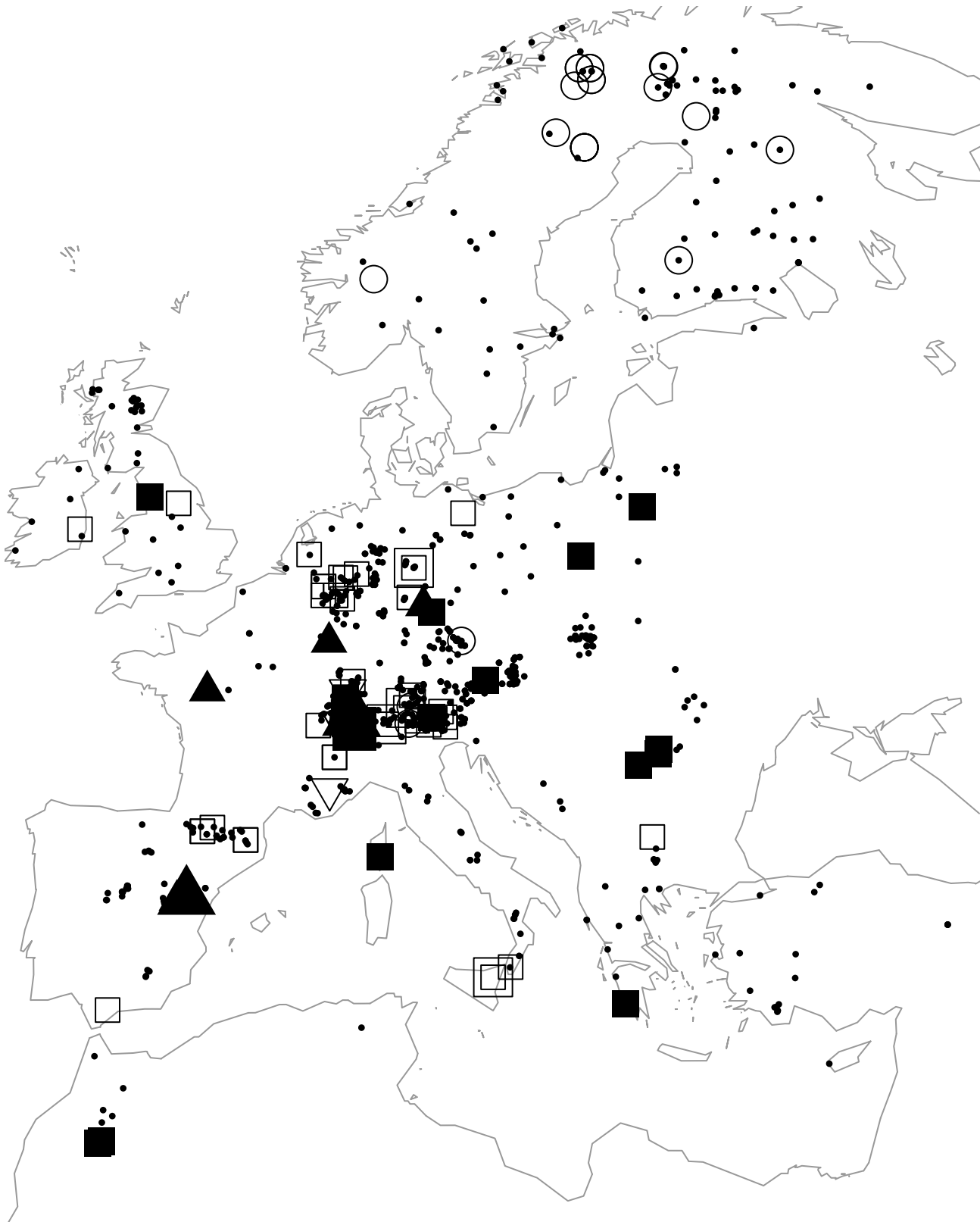
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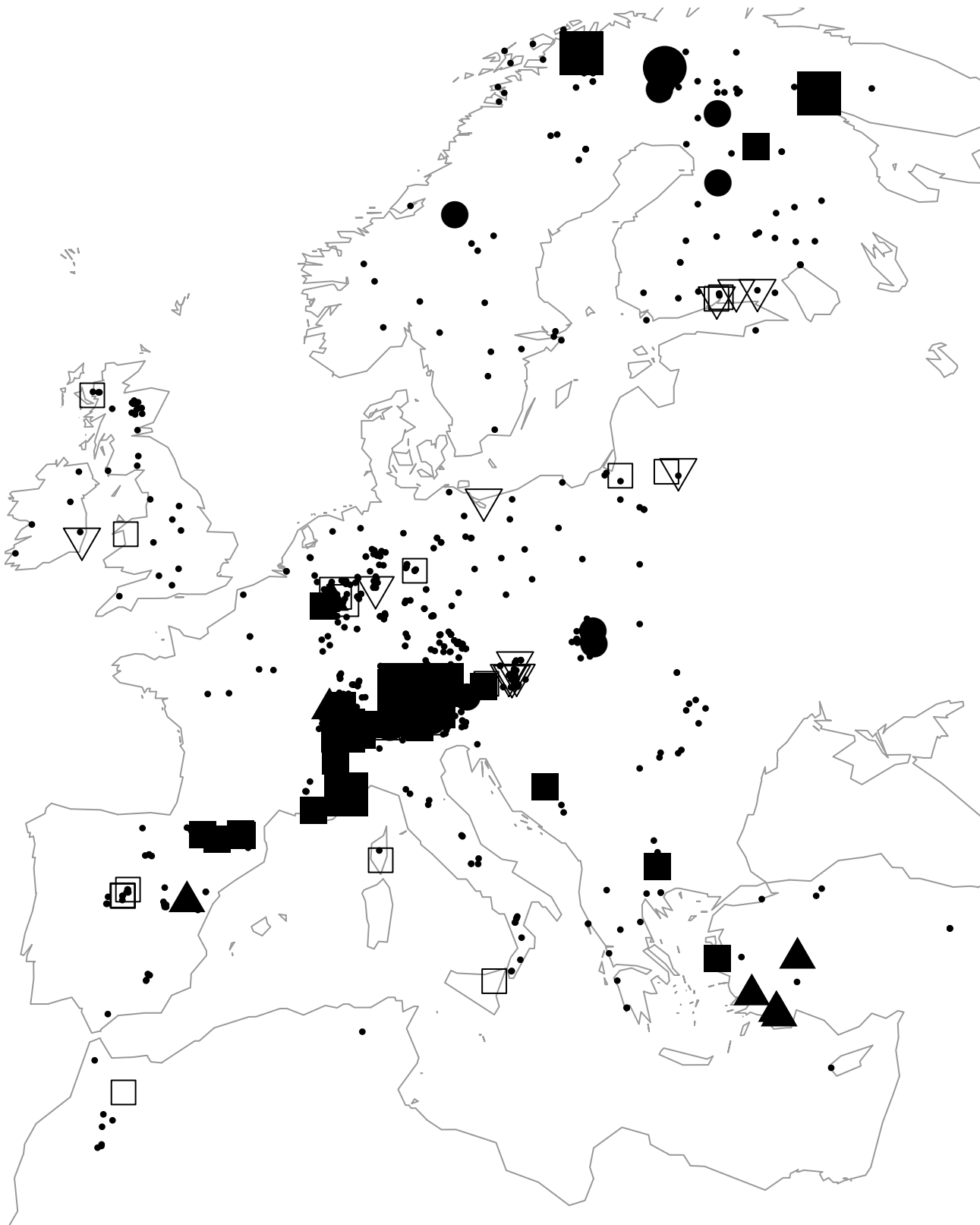
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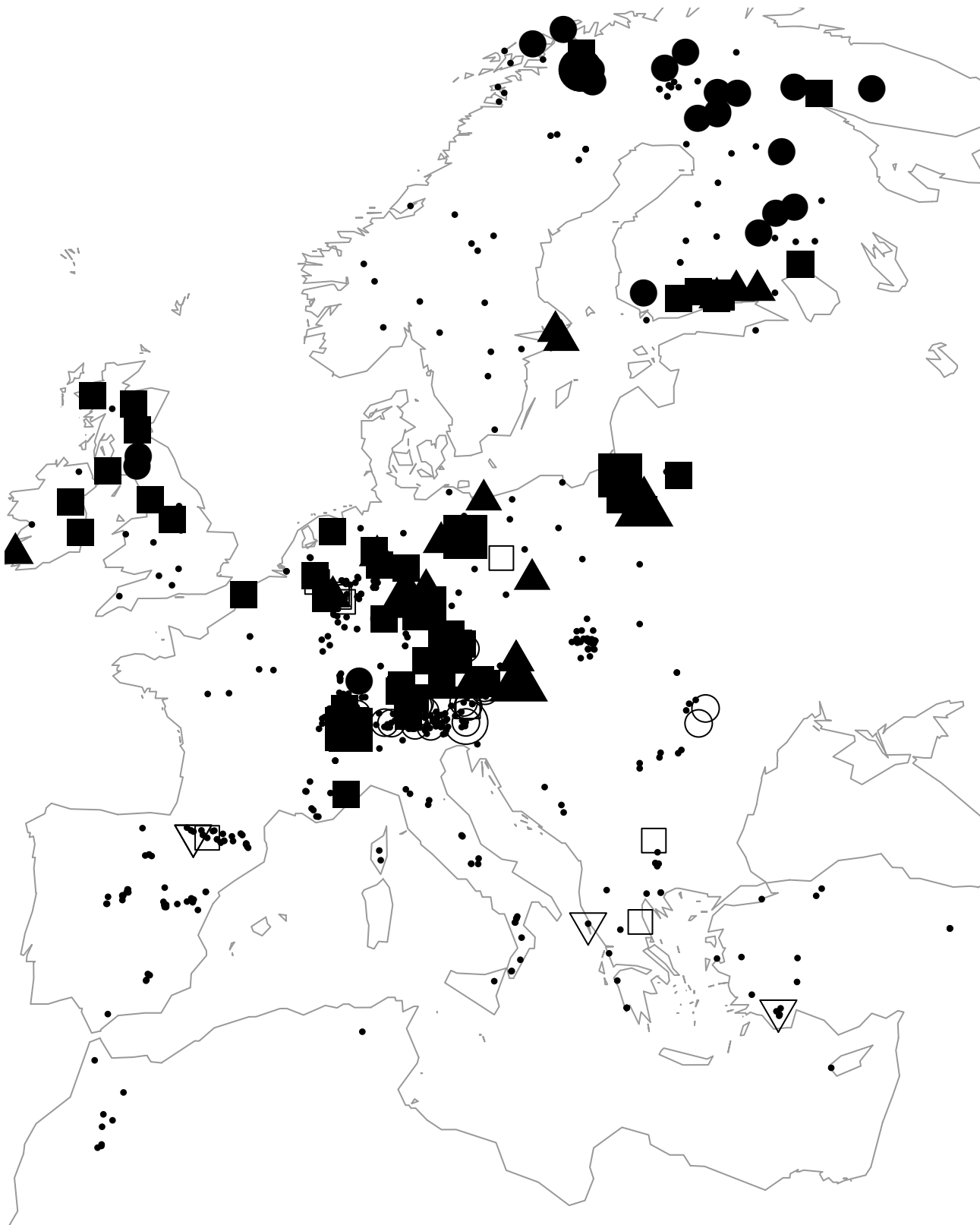
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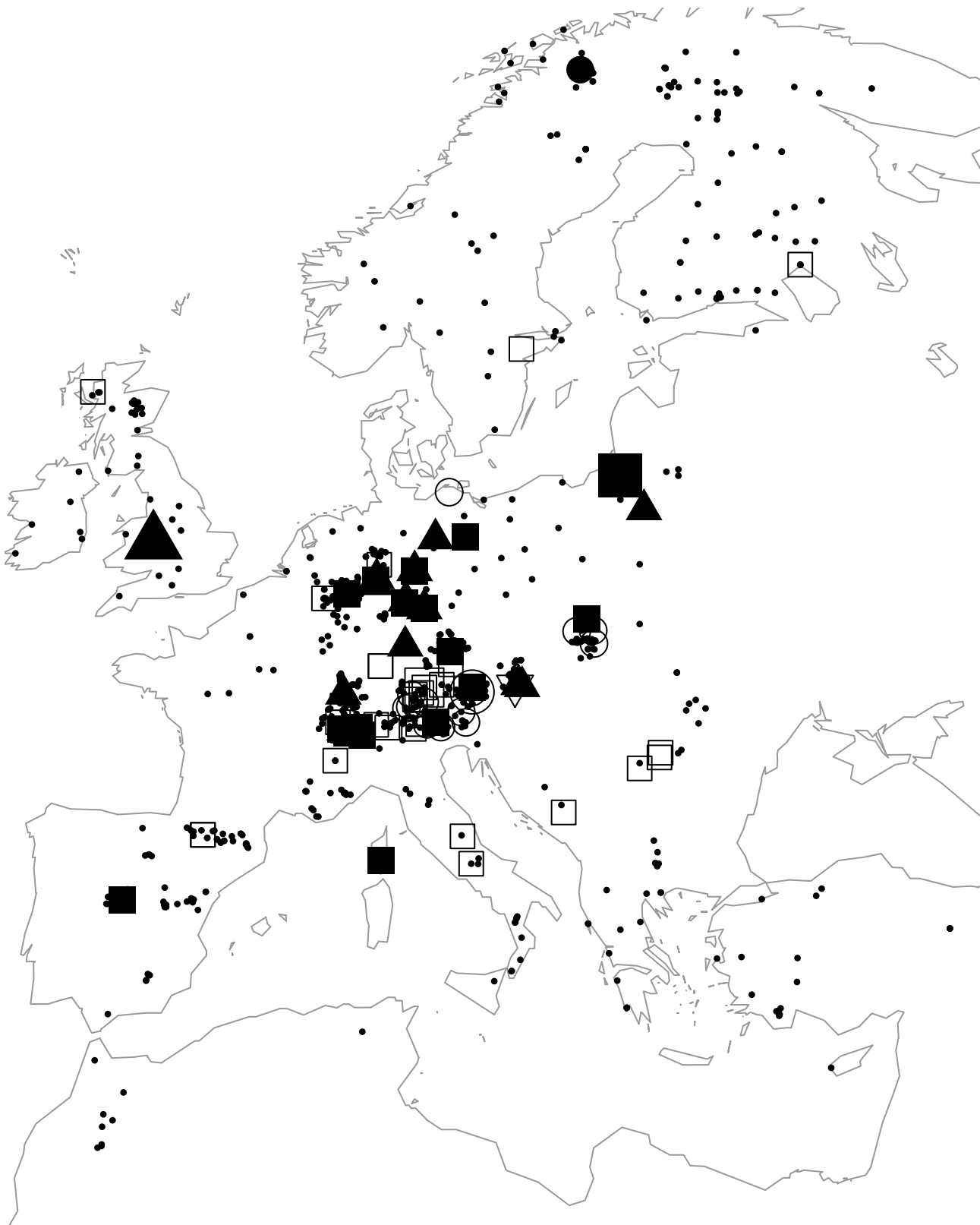
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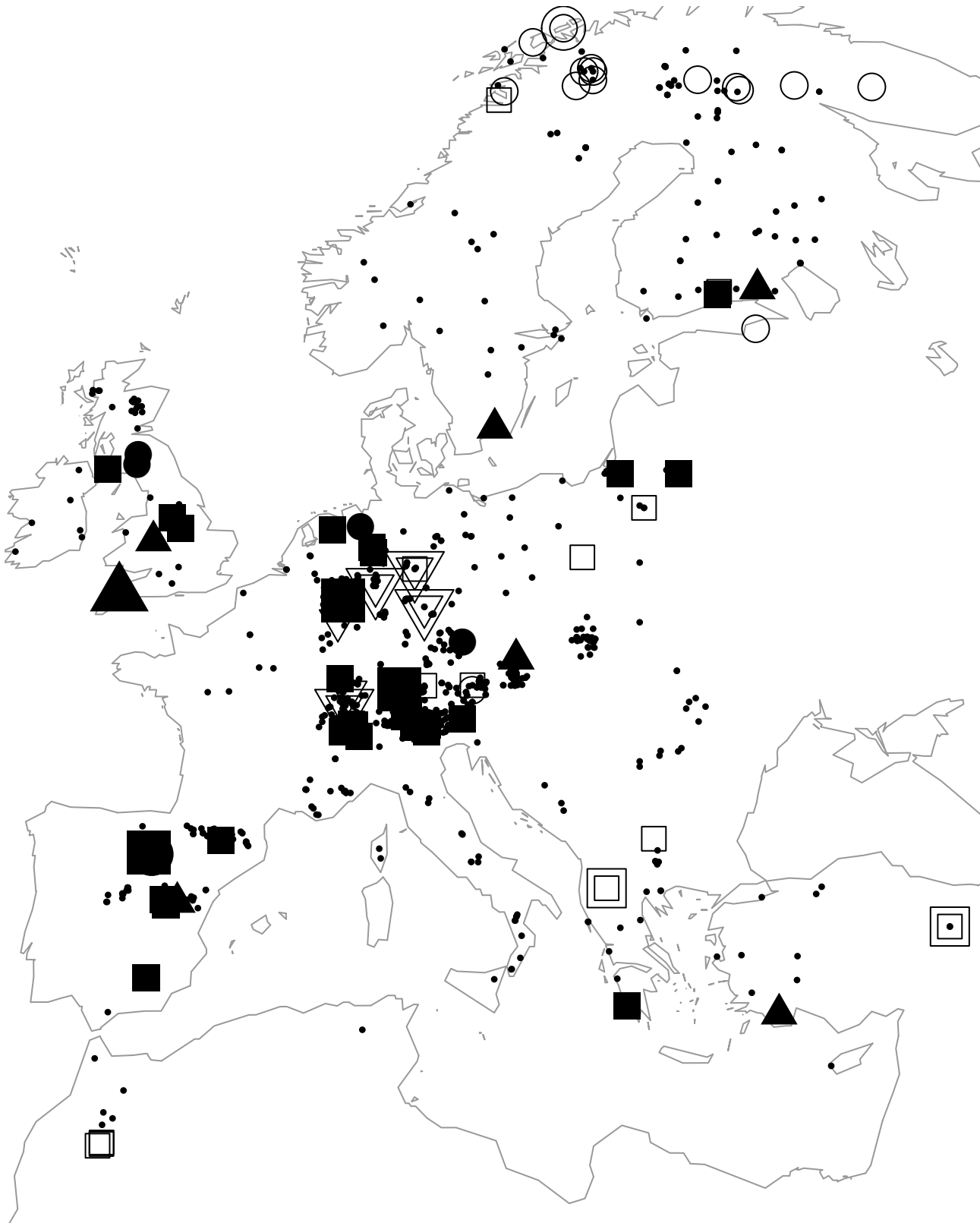
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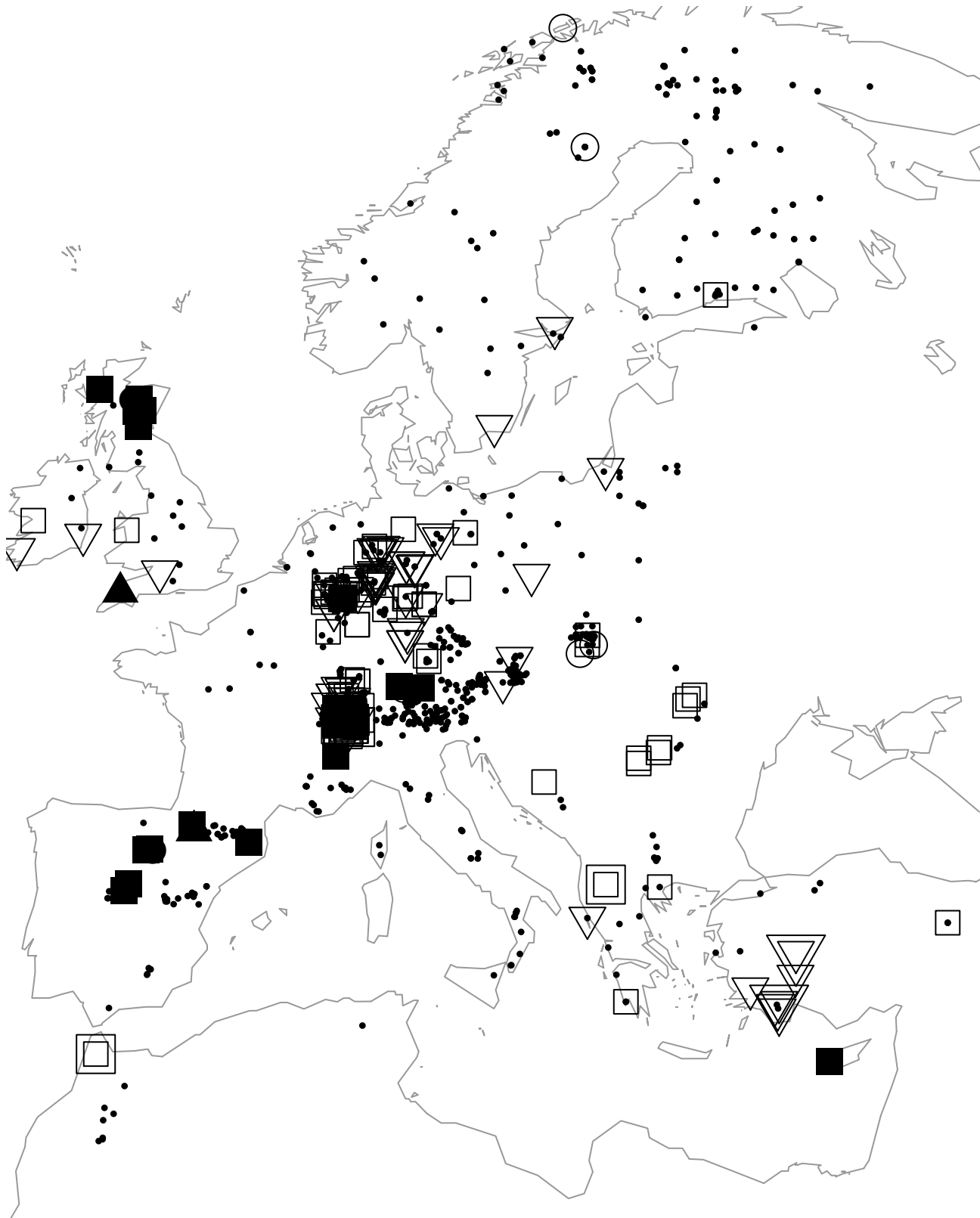
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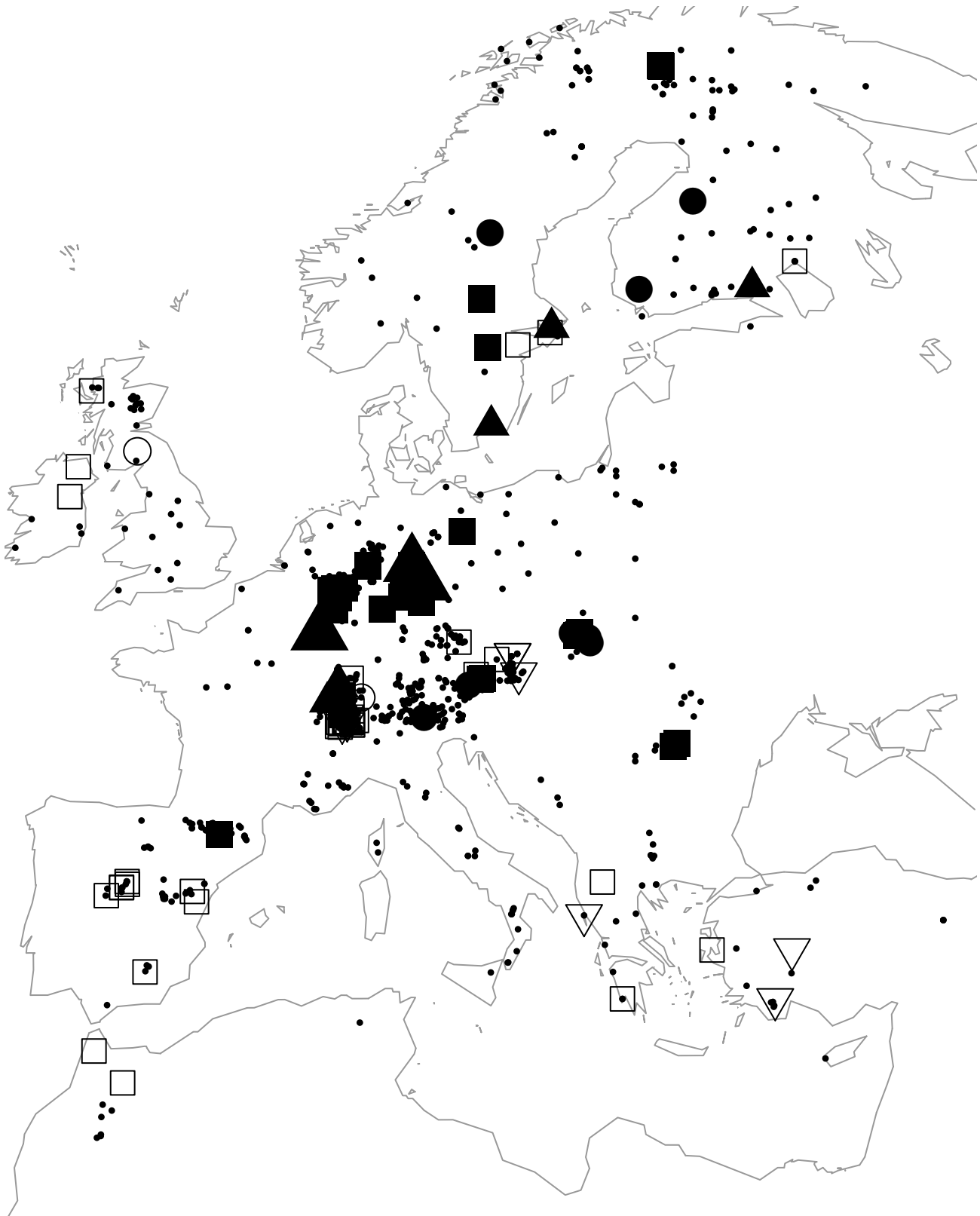
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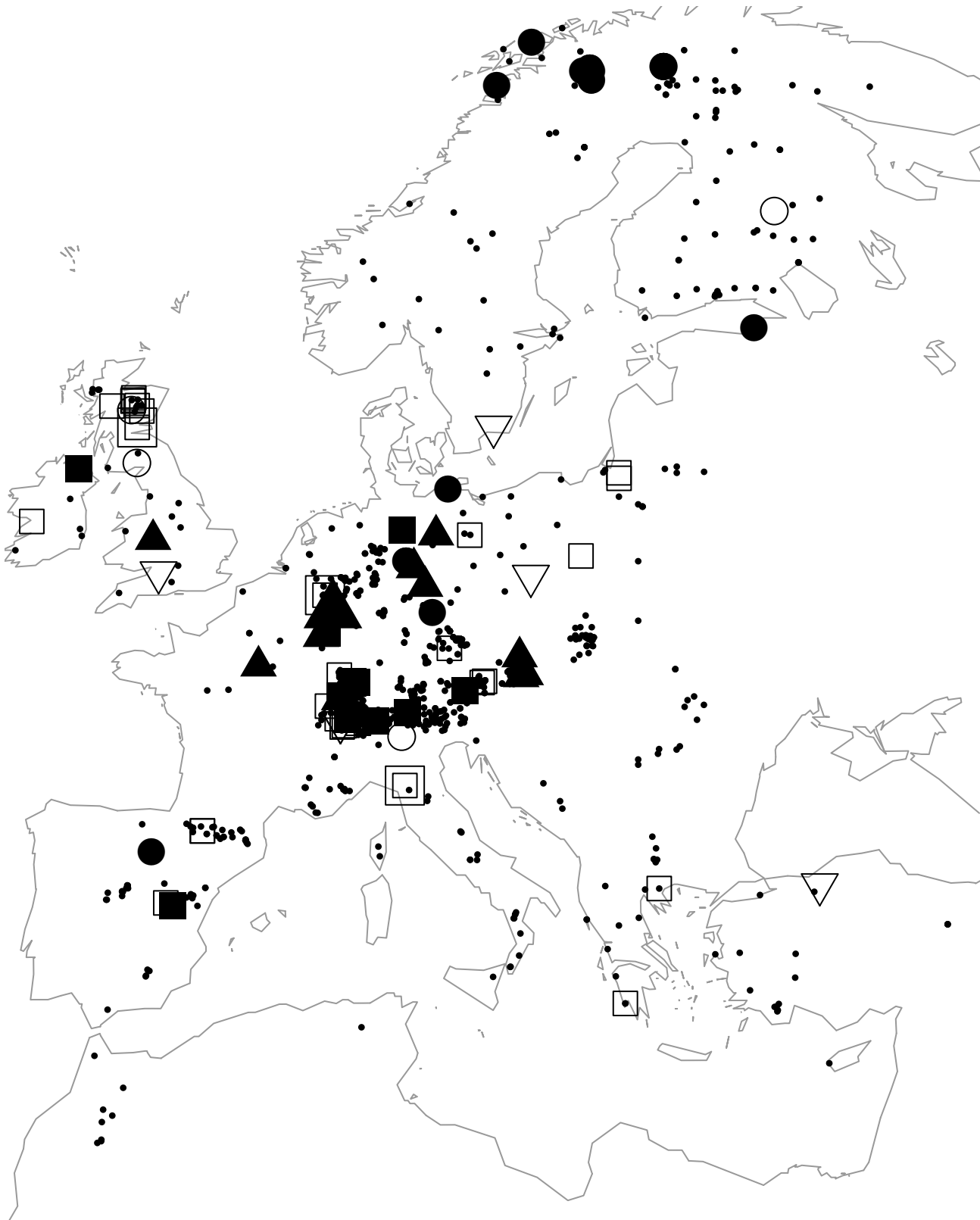
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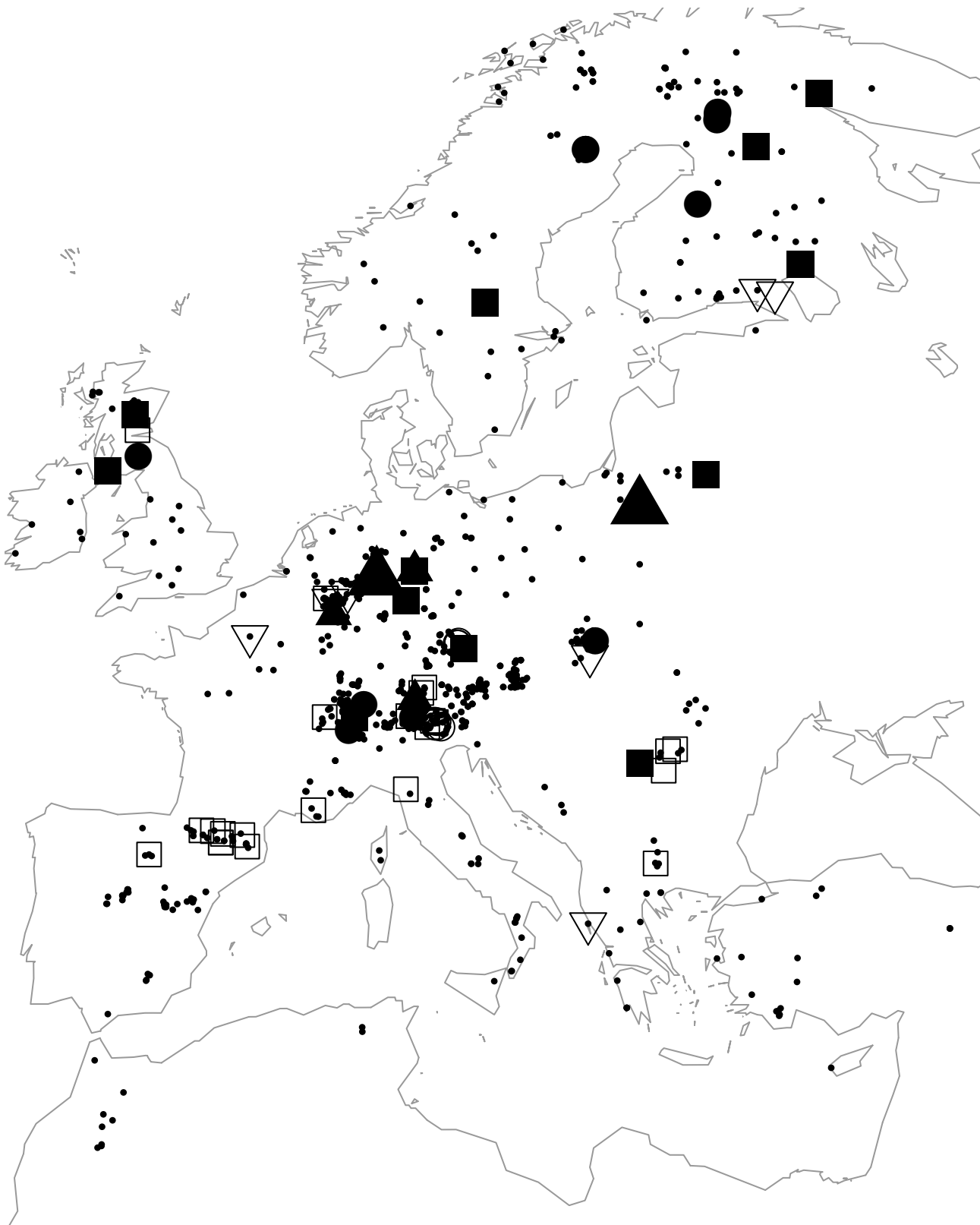
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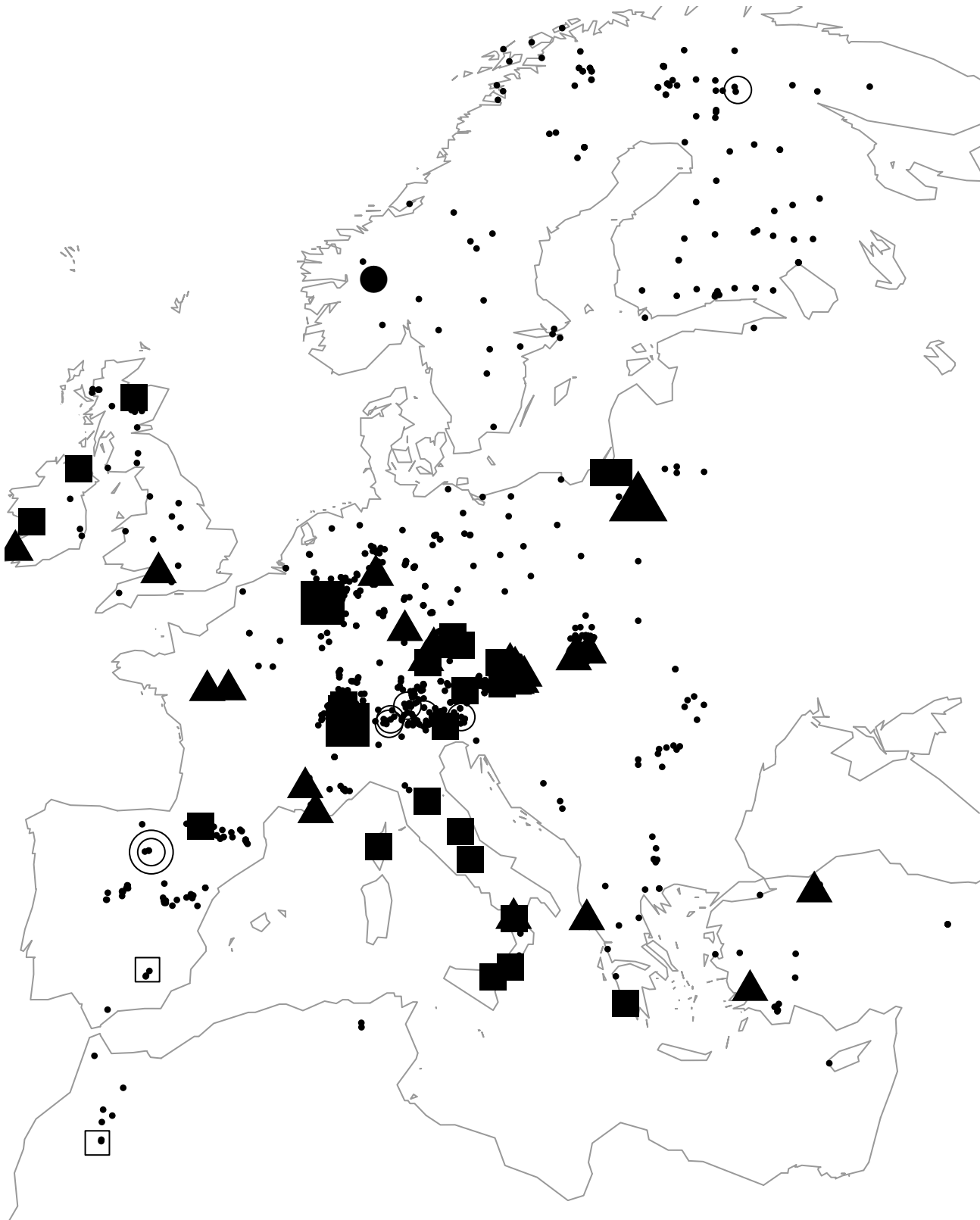
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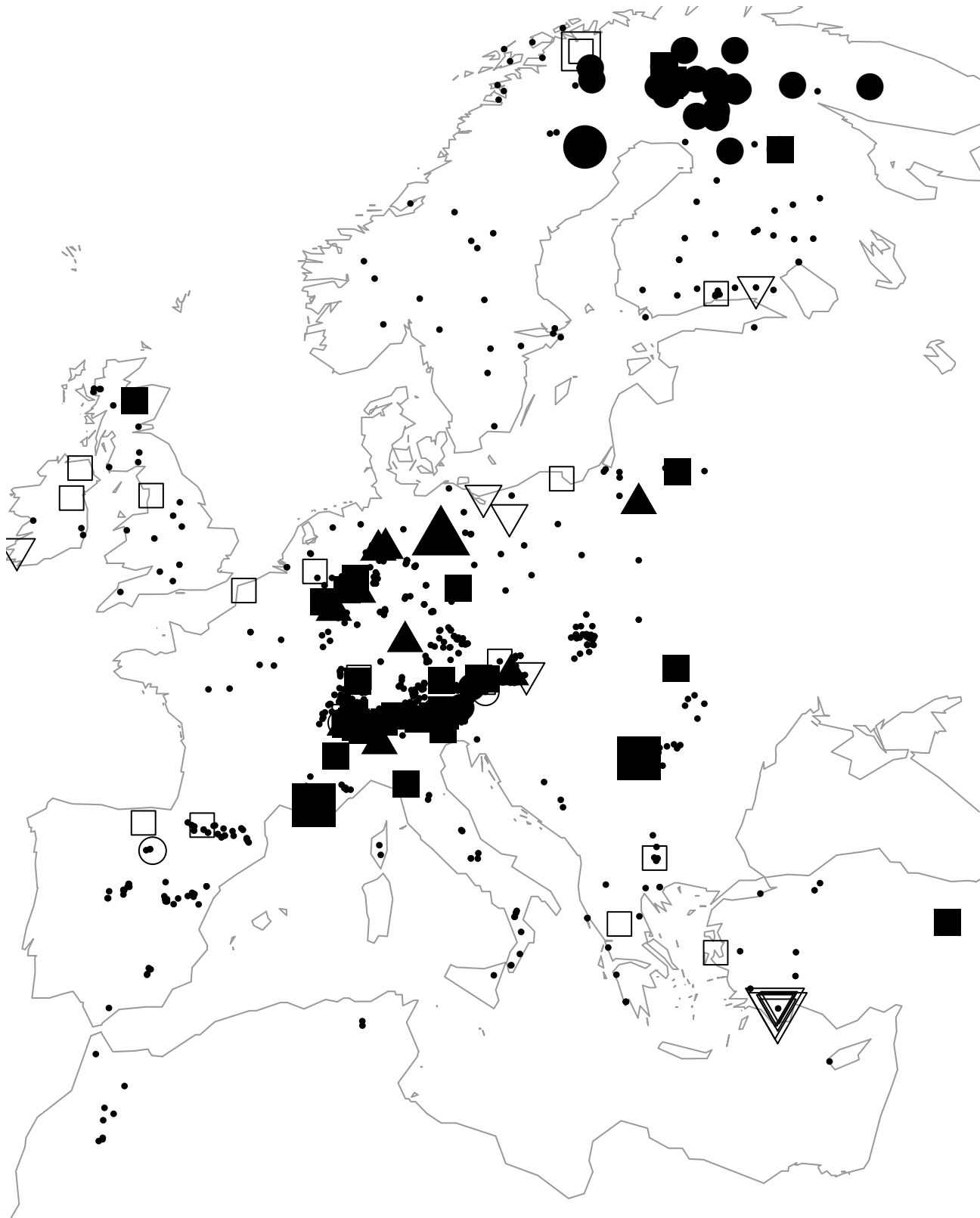
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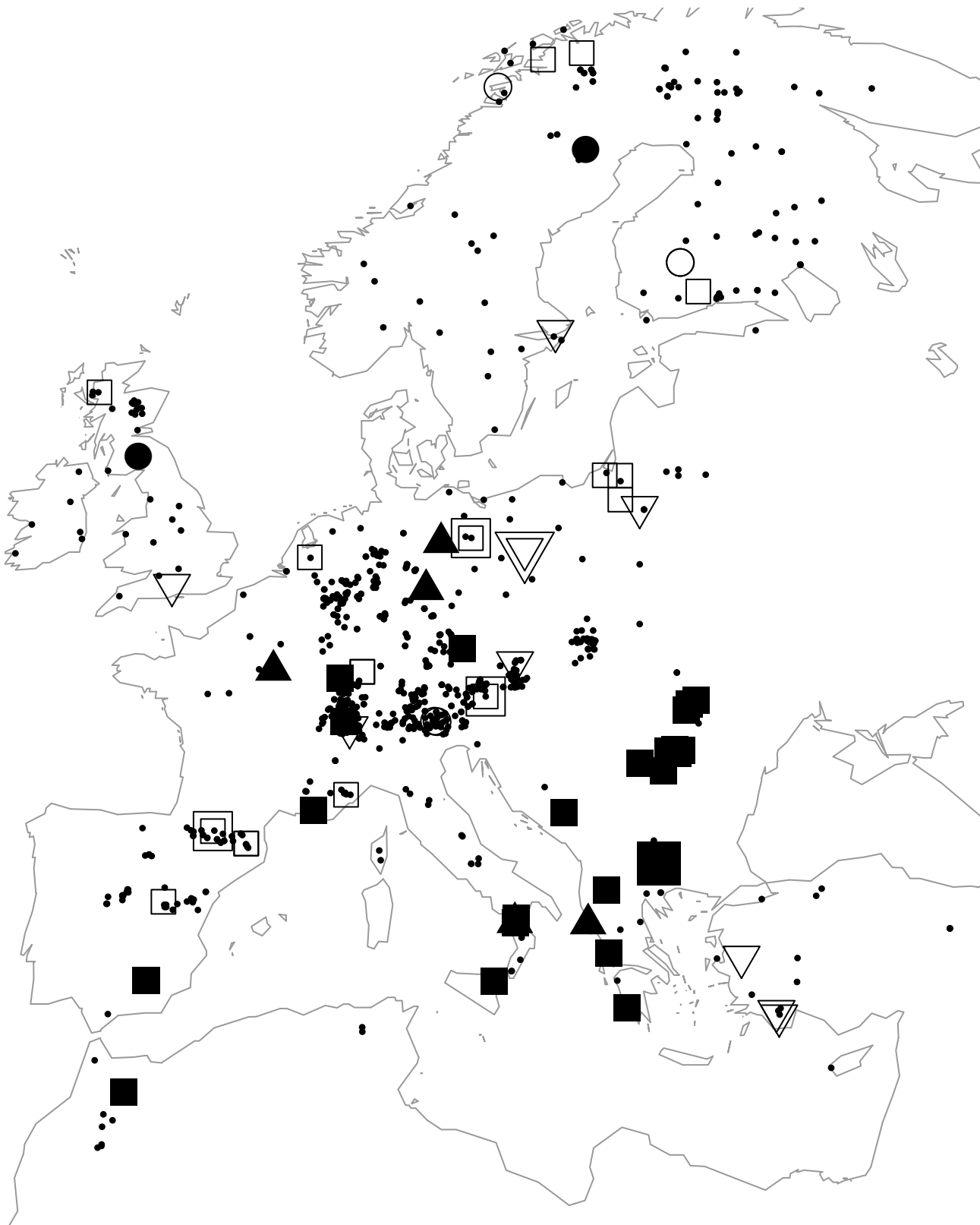
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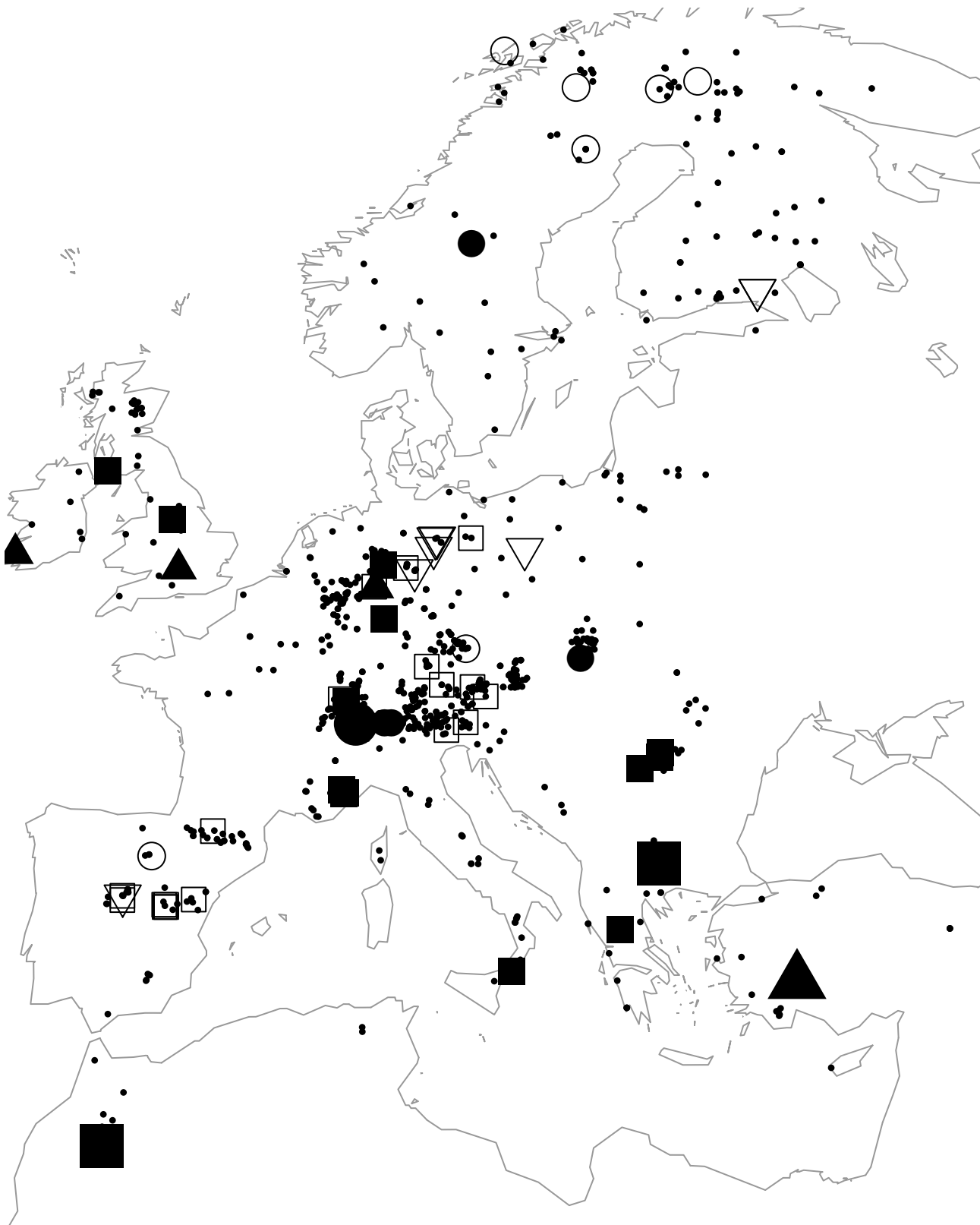
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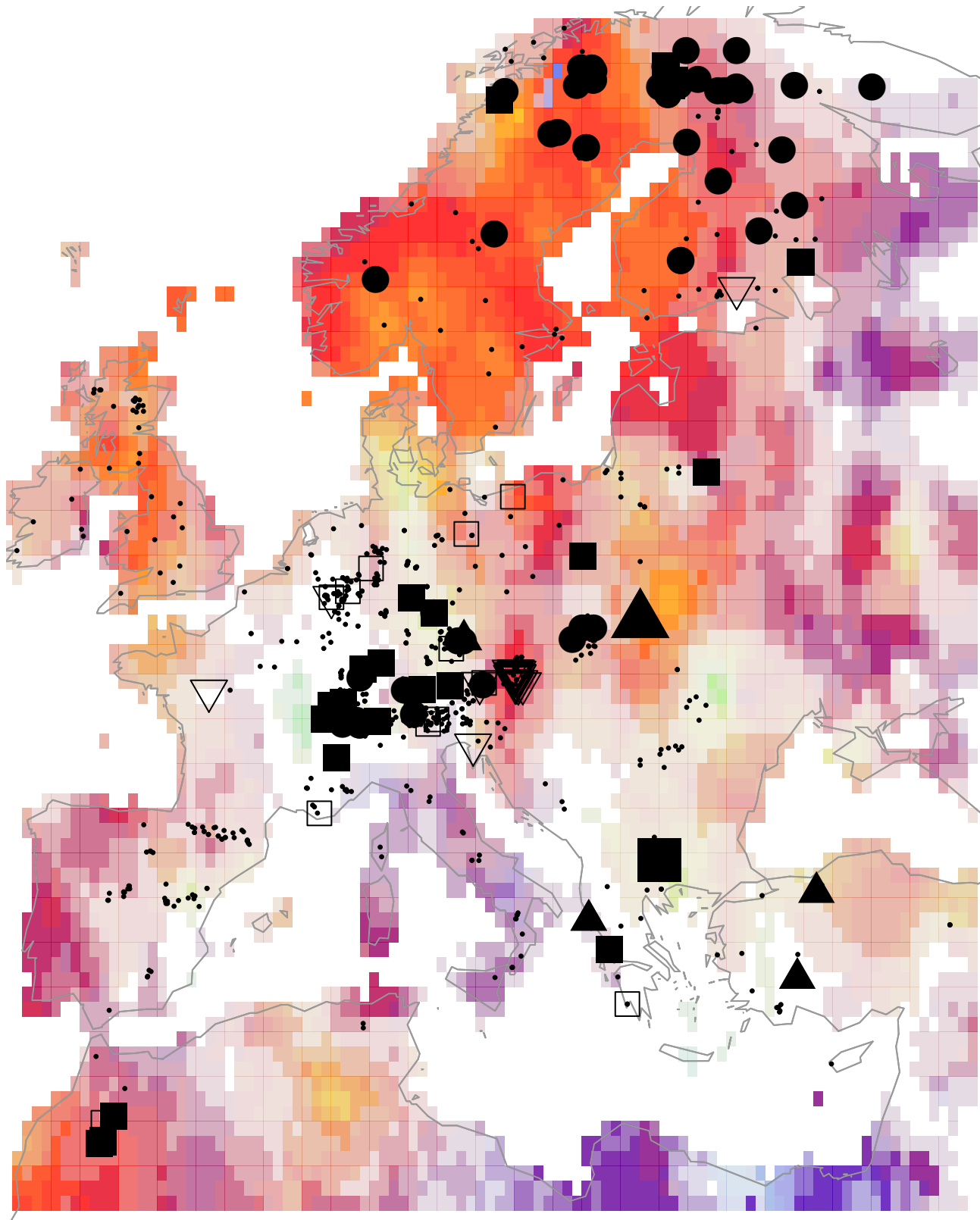
growth anomalies1899



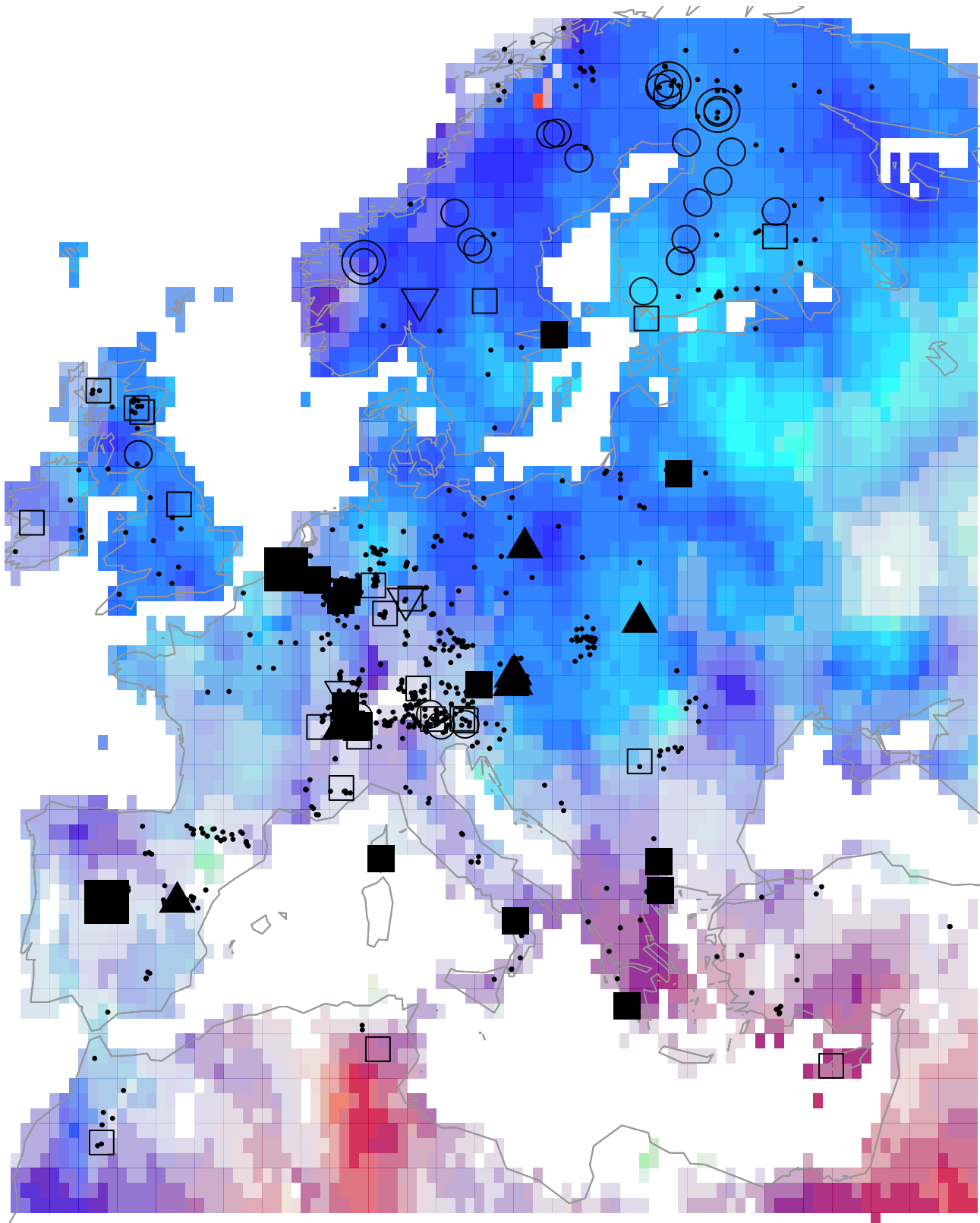
growth anomalies1900



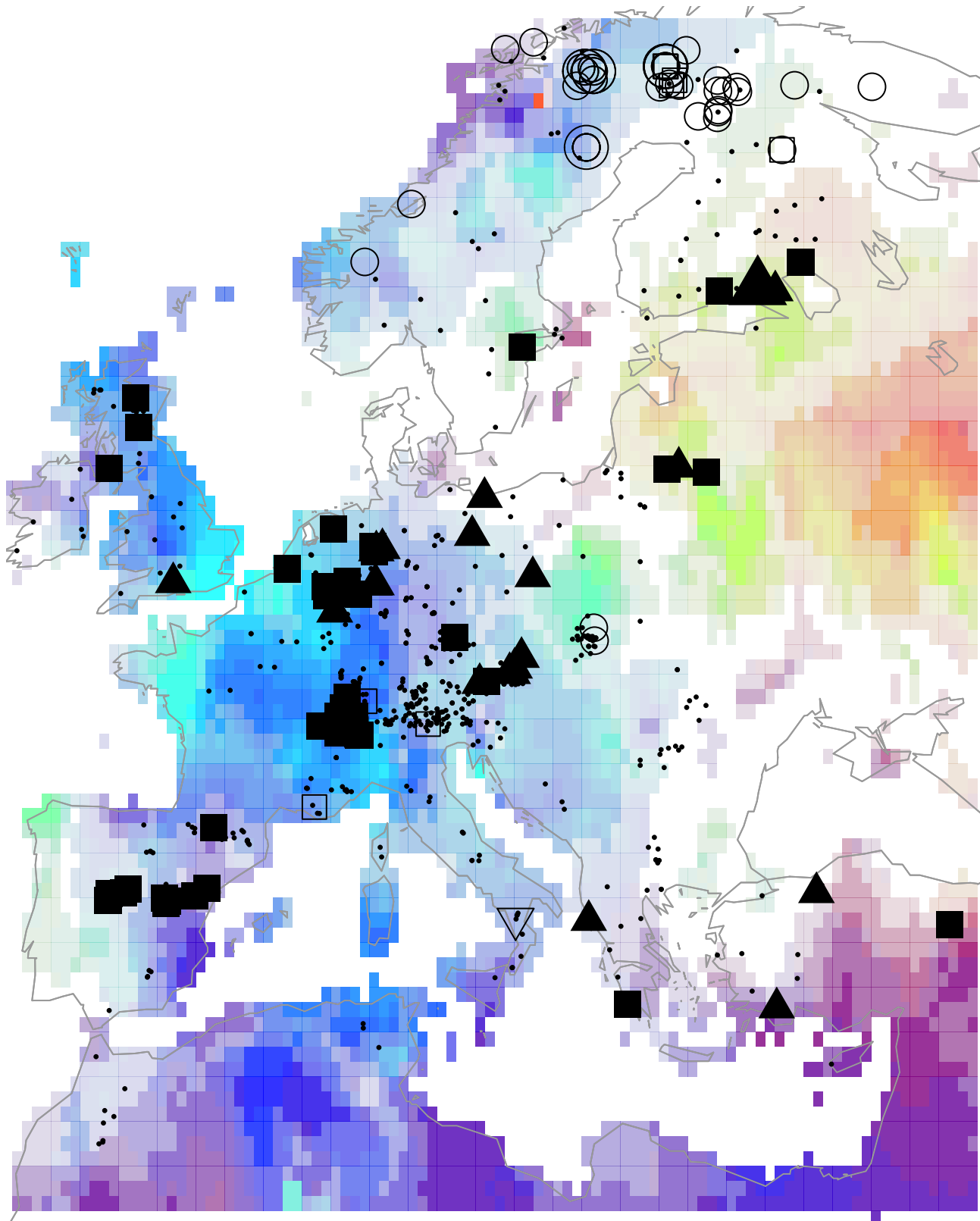
growth and climate anomalies 1901



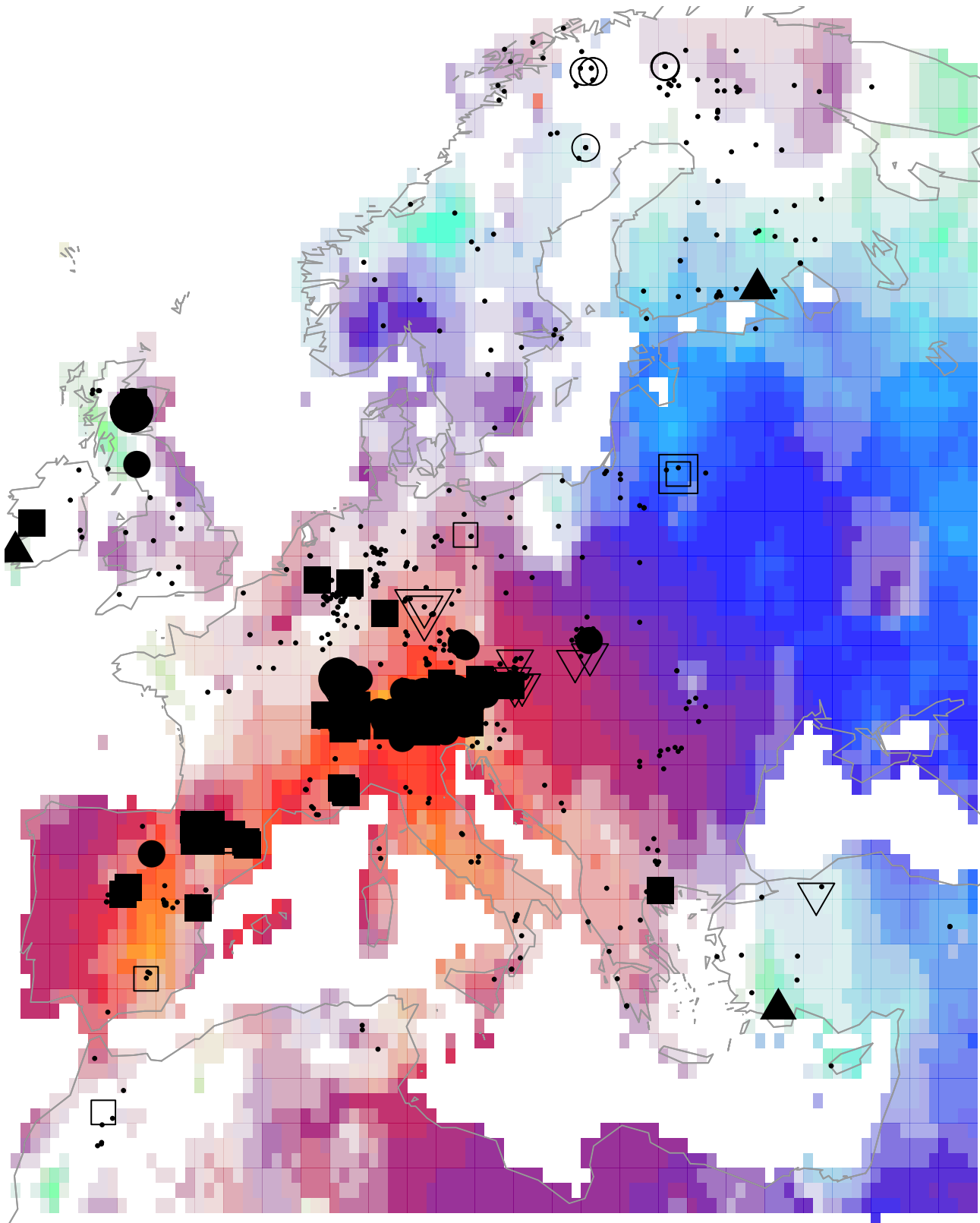
growth and climate anomalies 1902



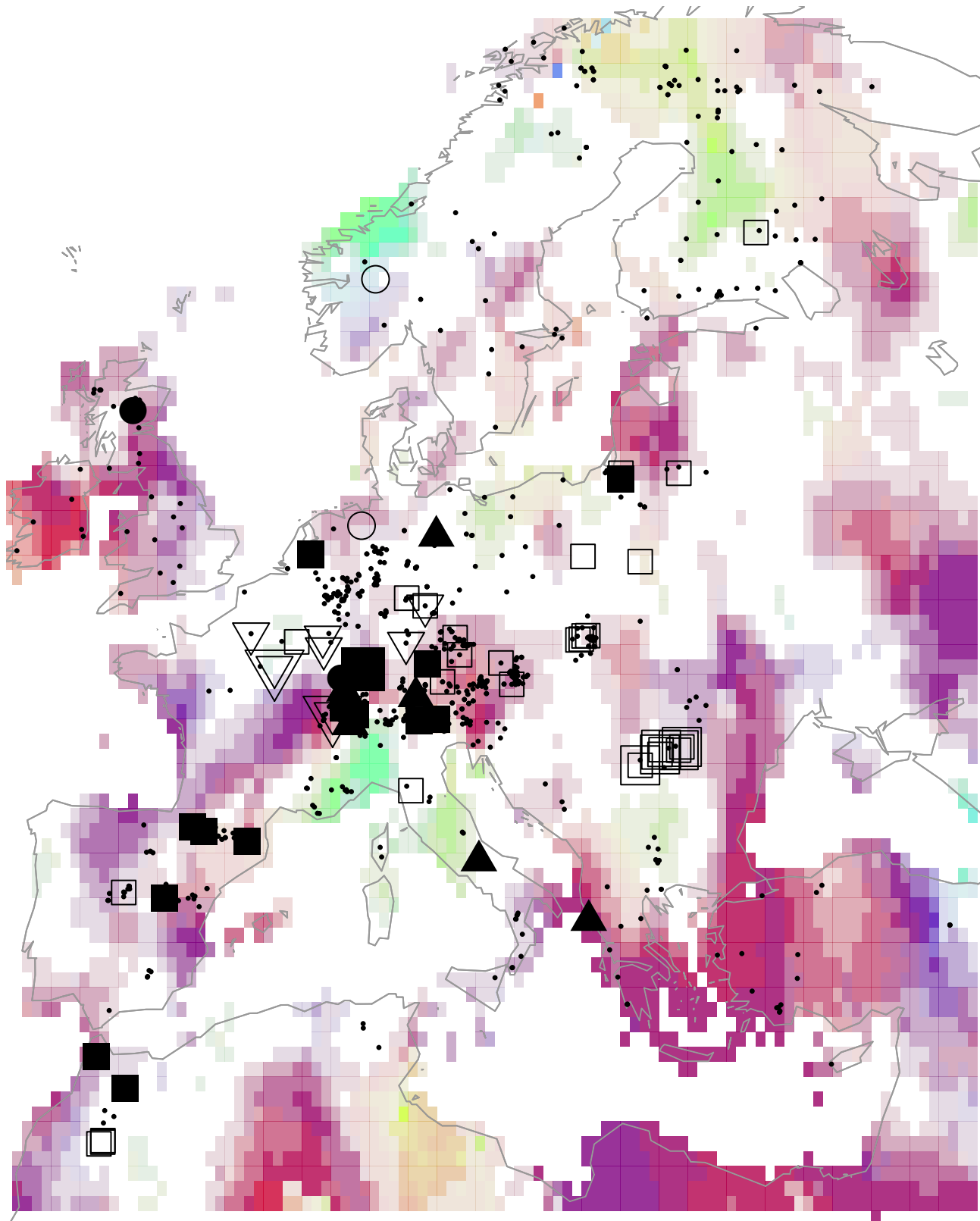
growth and climate anomalies 1903



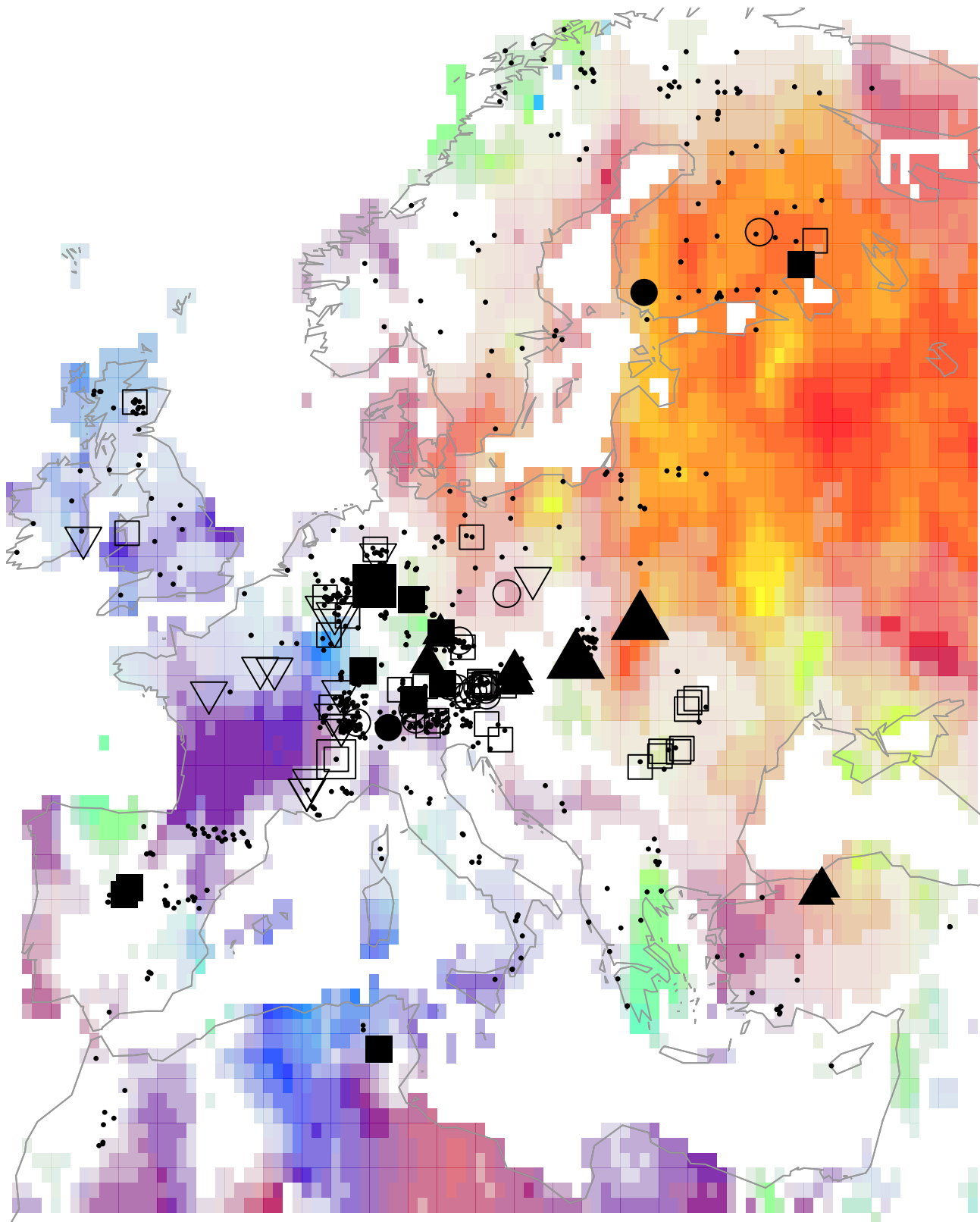
growth and climate anomalies 1904



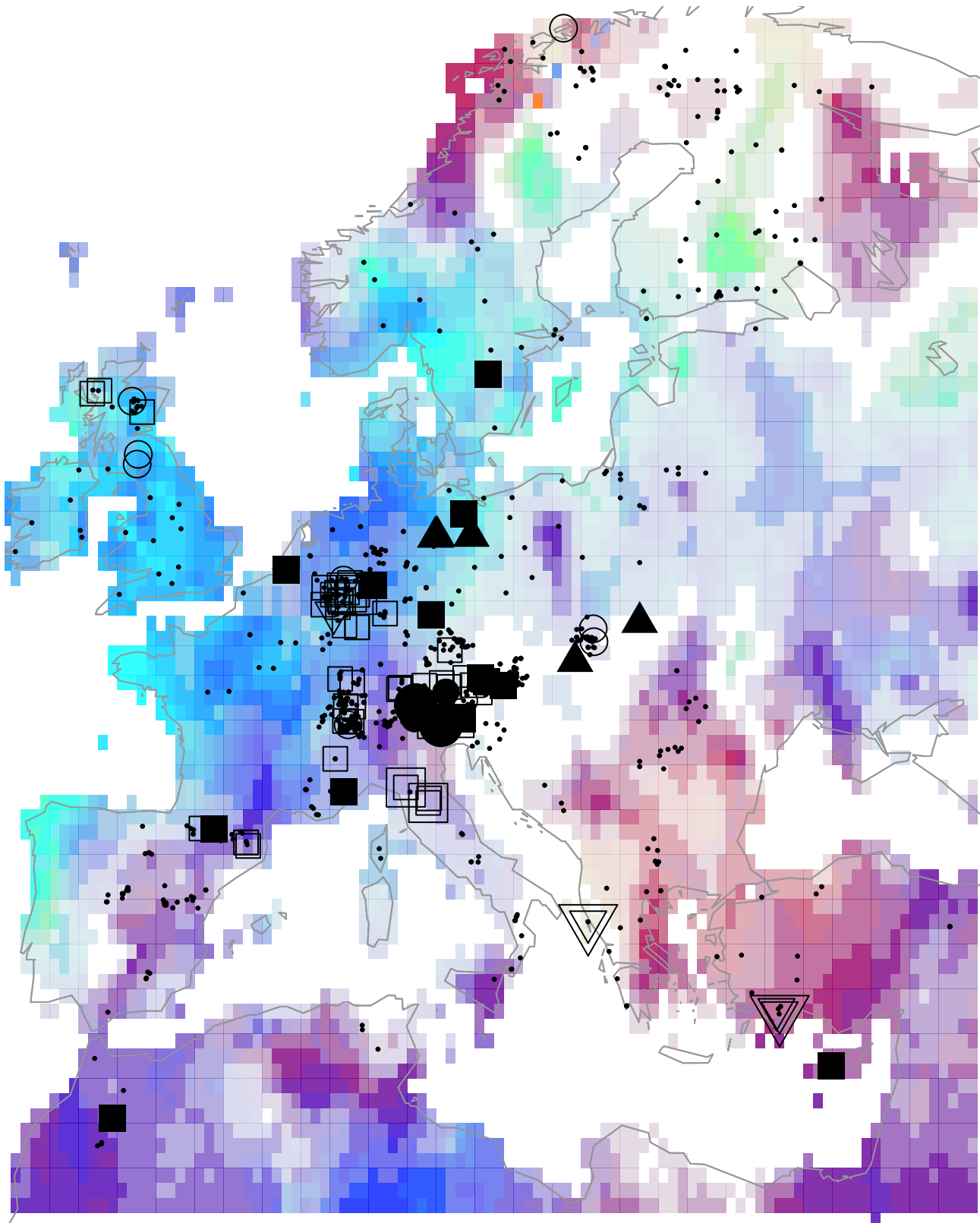
growth and climate anomalies 1905



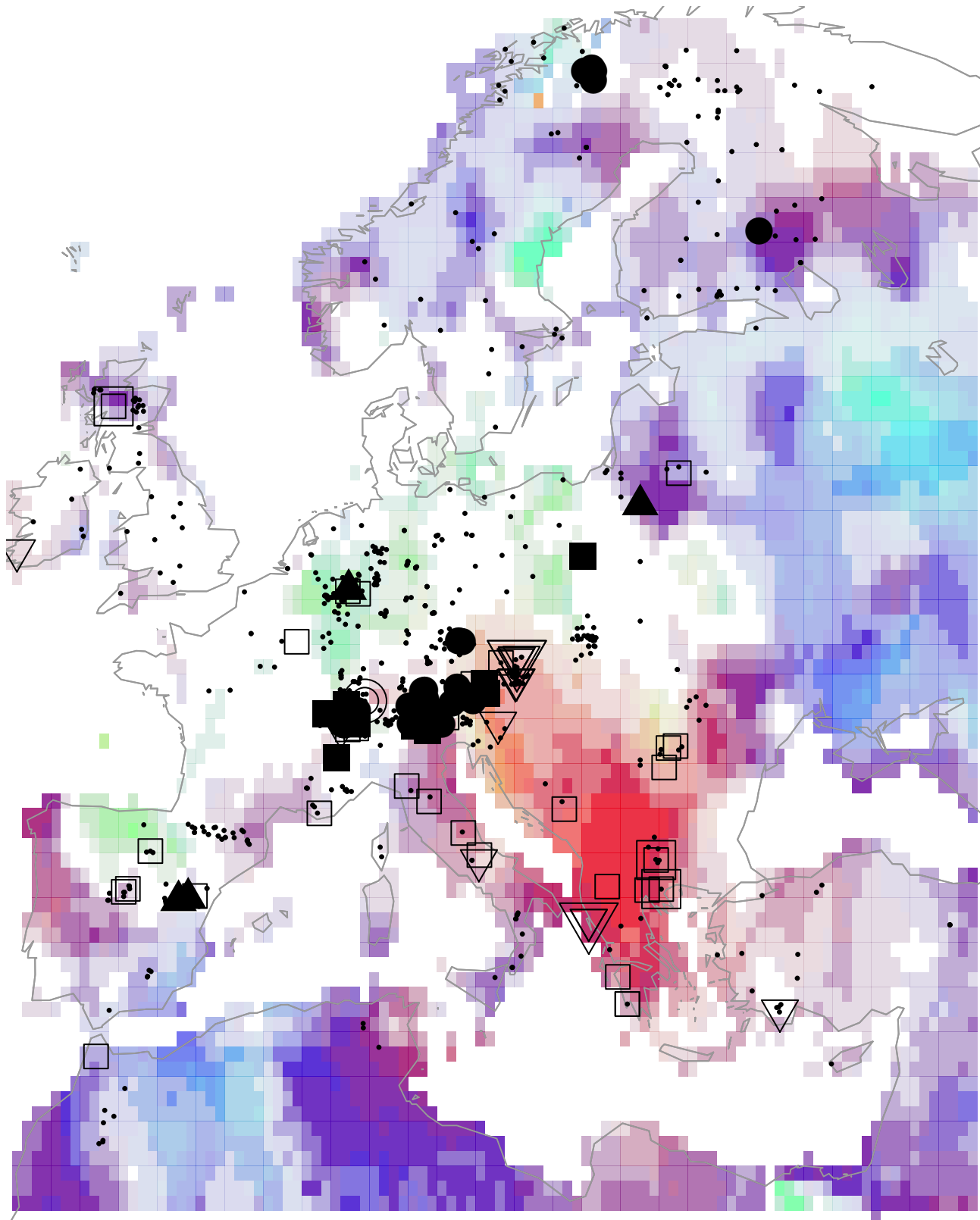
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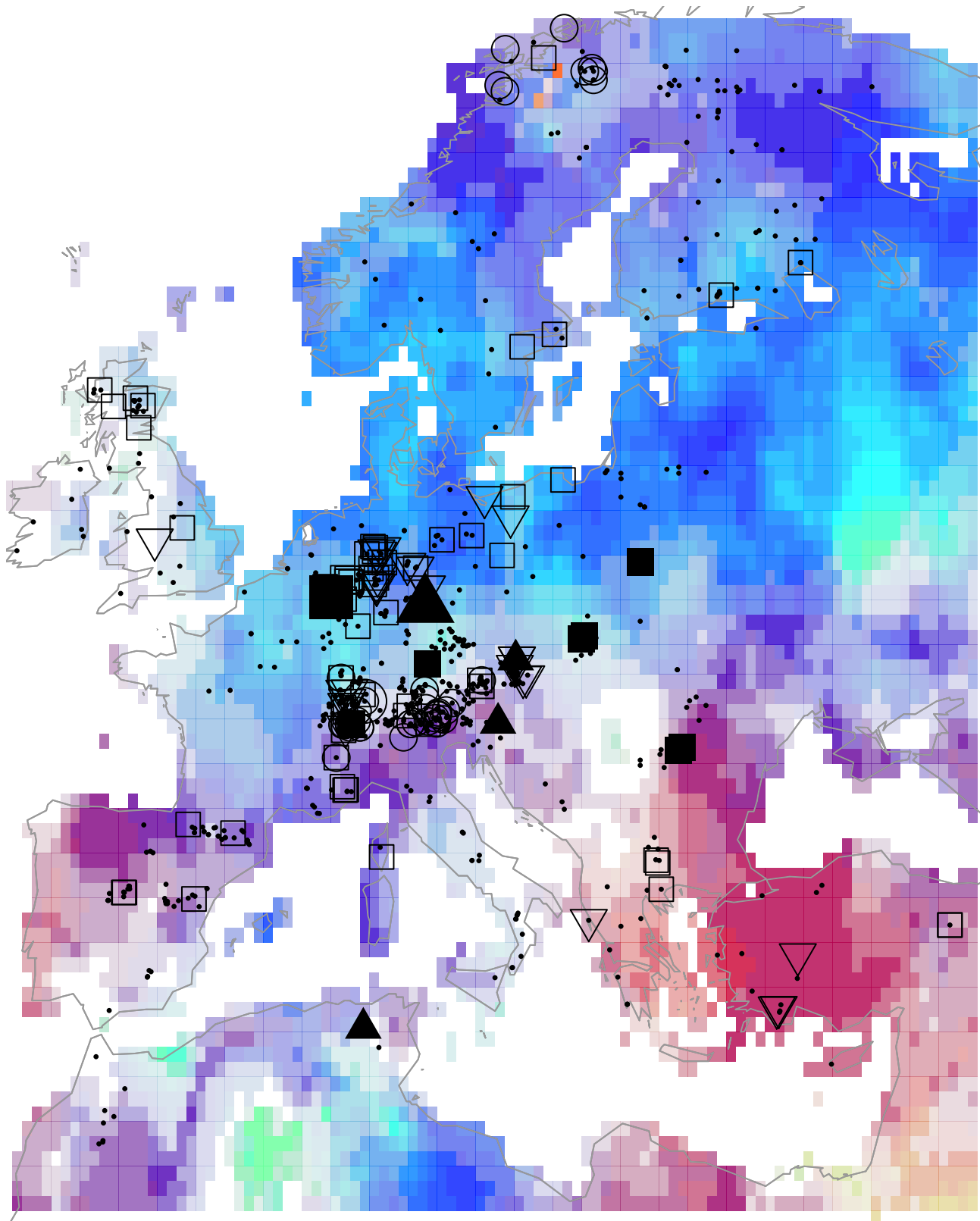
growth and climate anomalies 1907



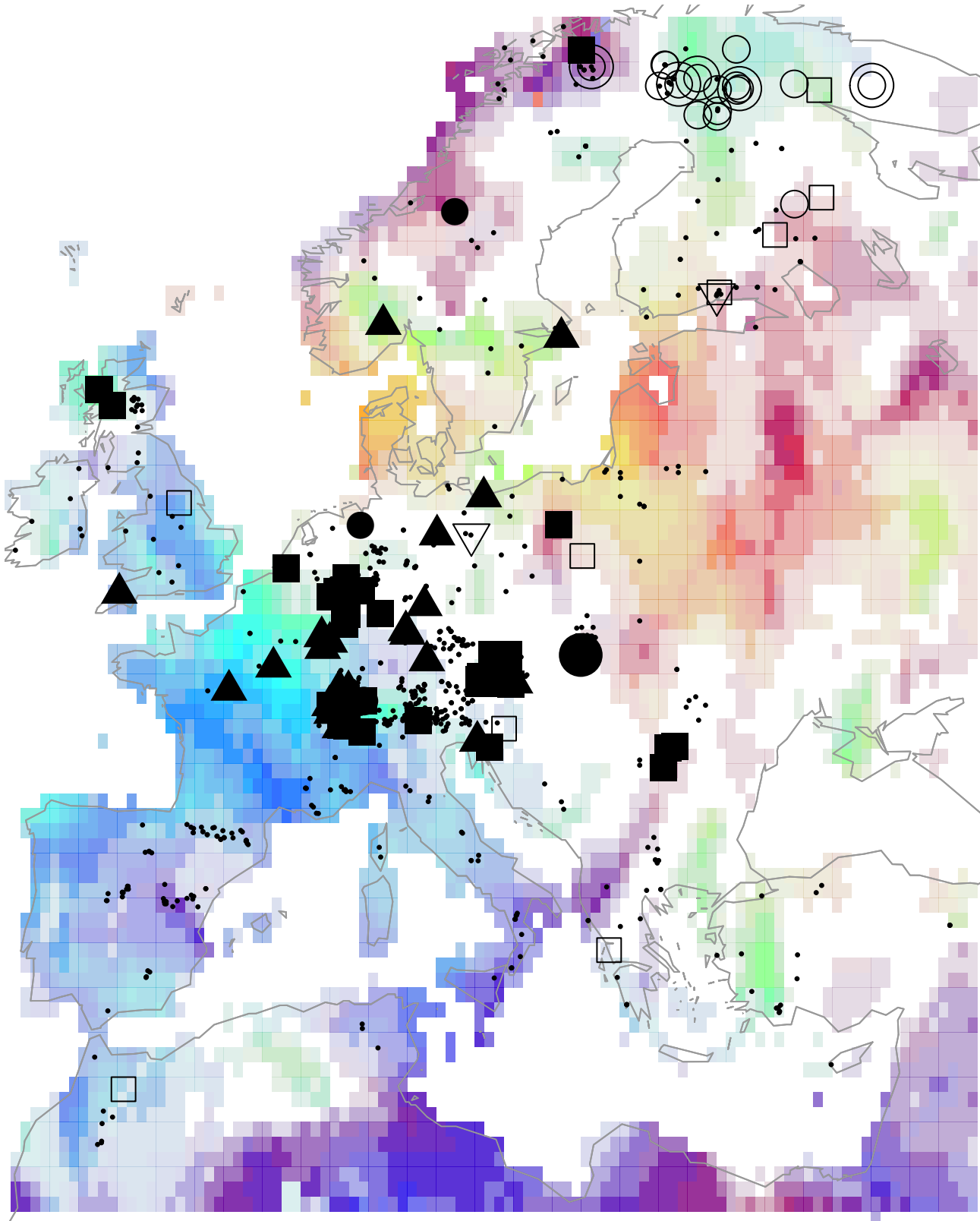
growth and climate anomalies 1908



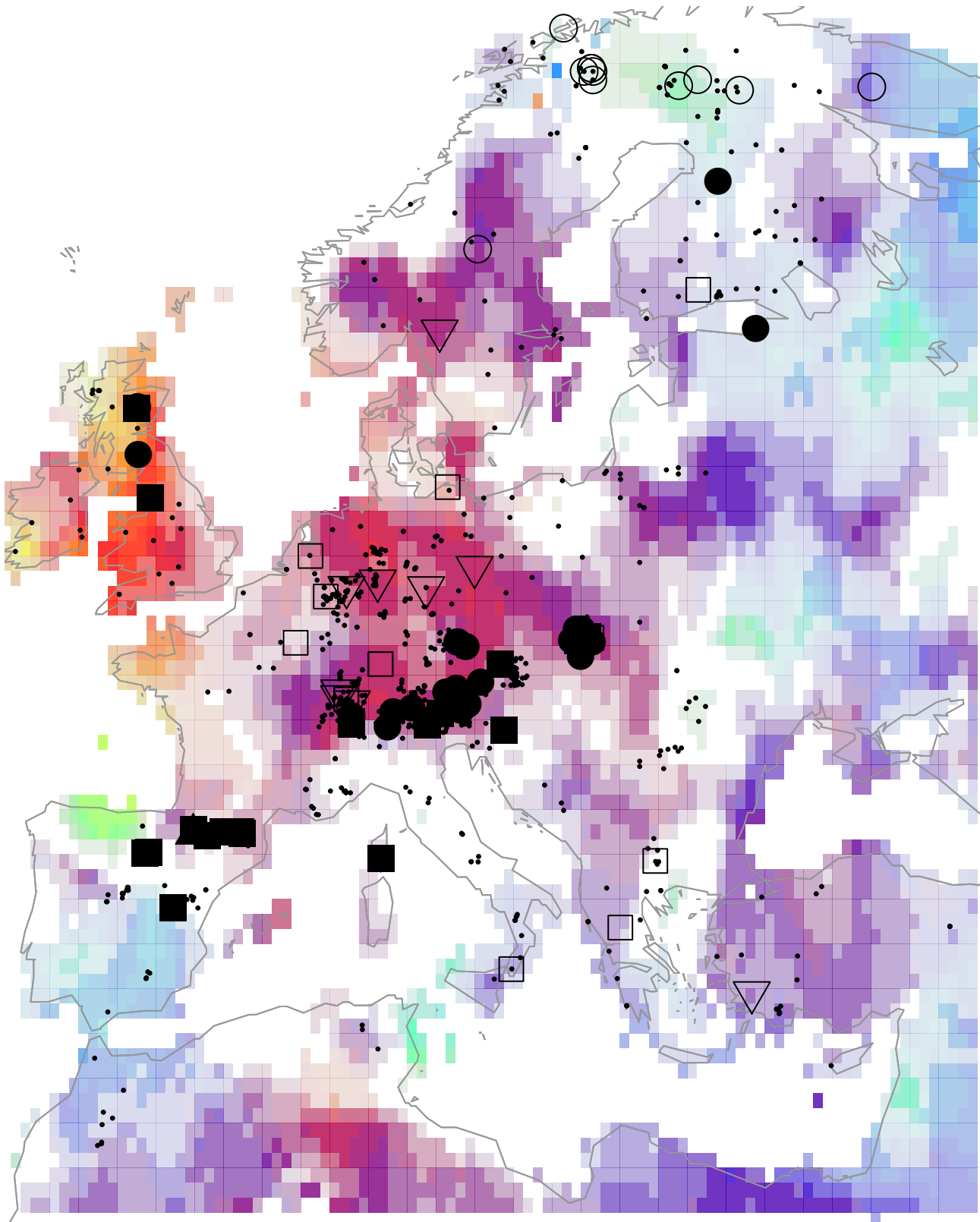
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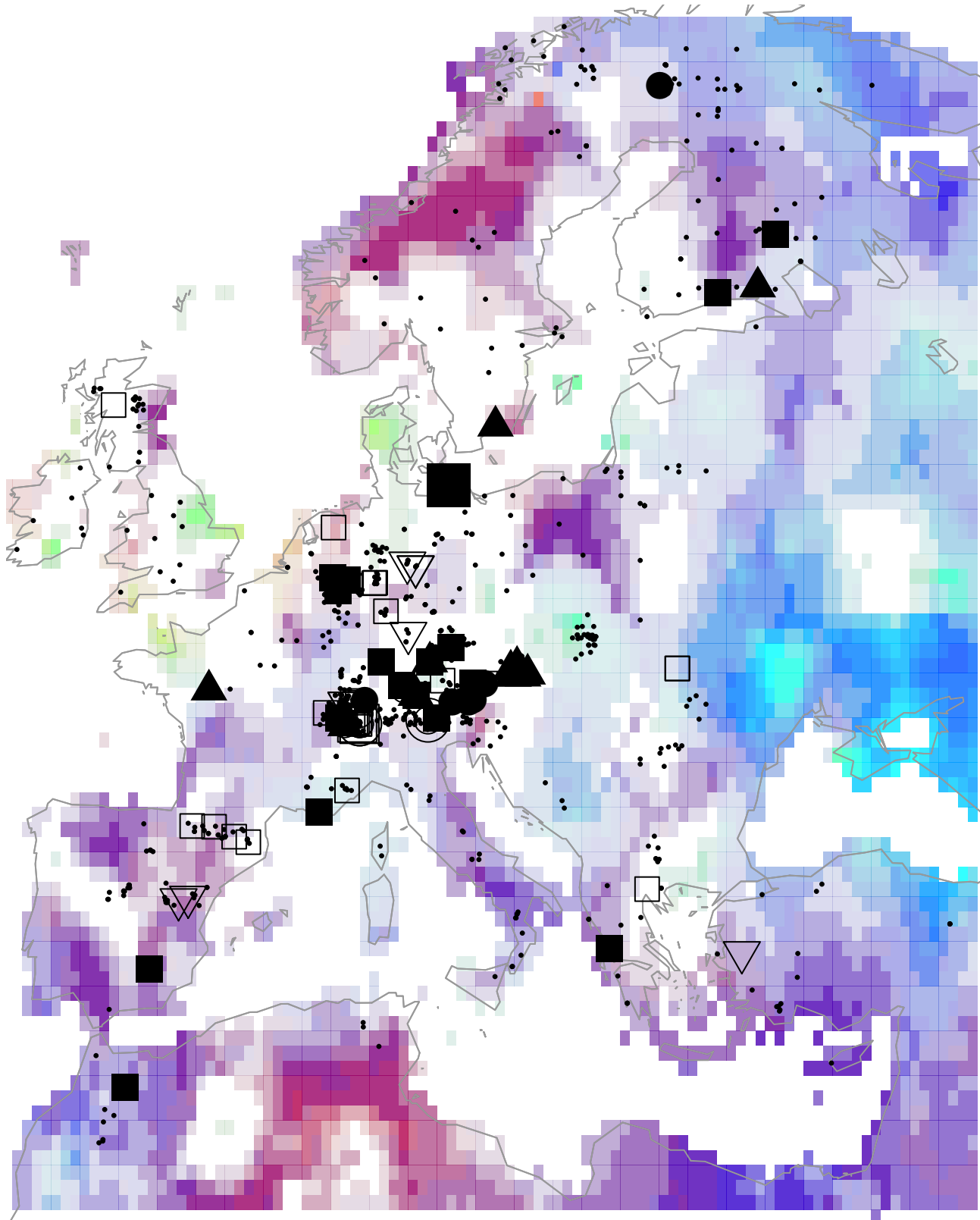
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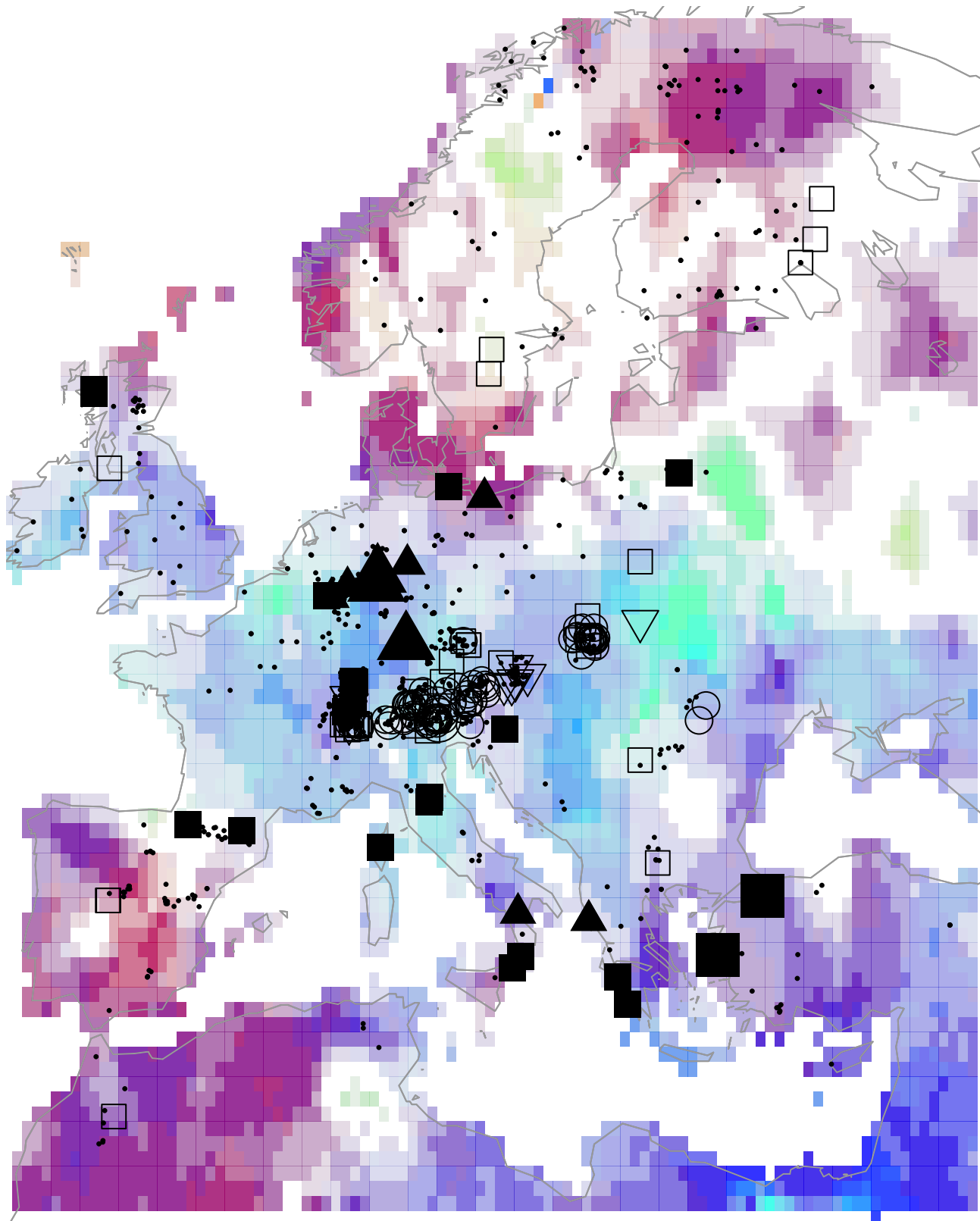
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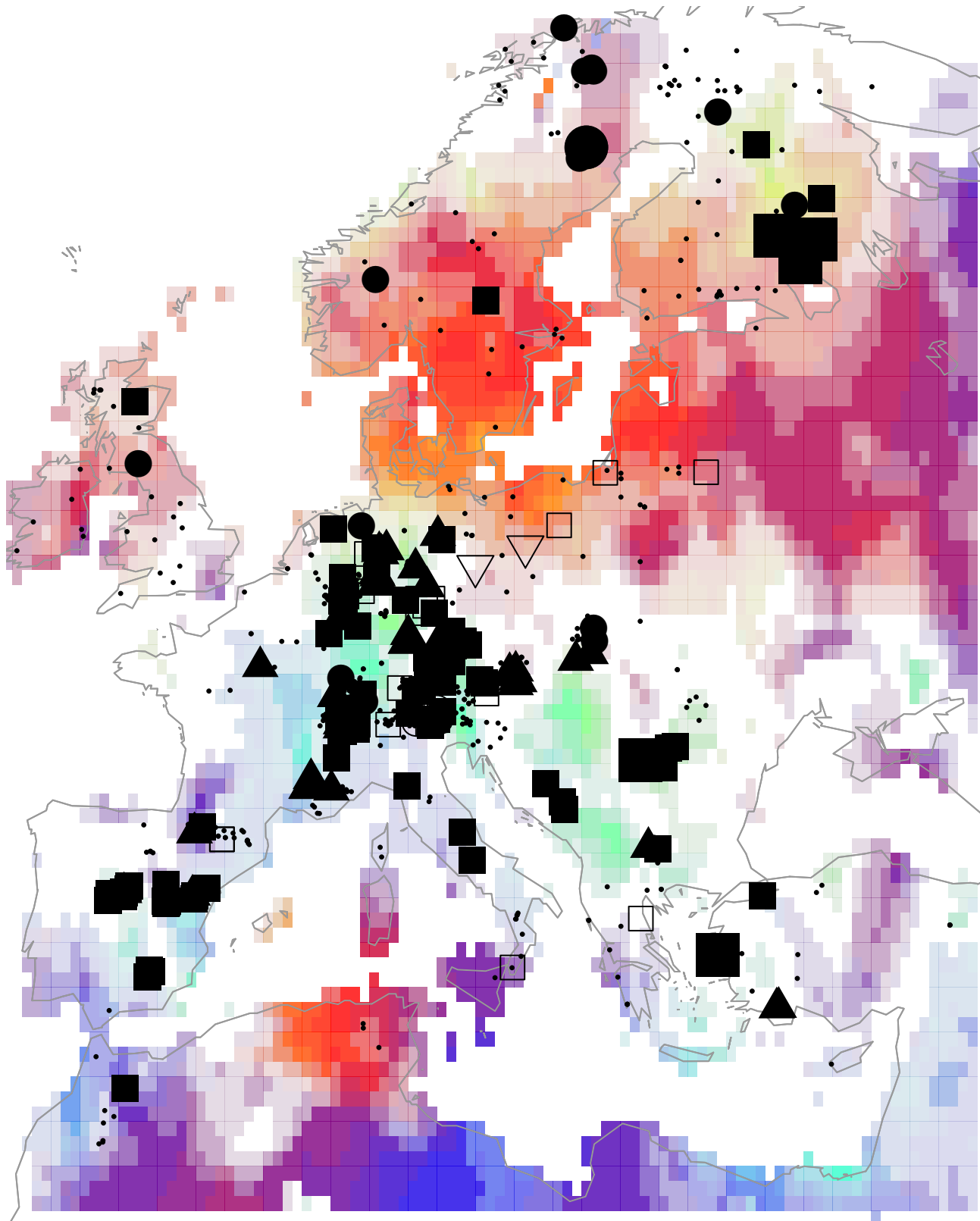
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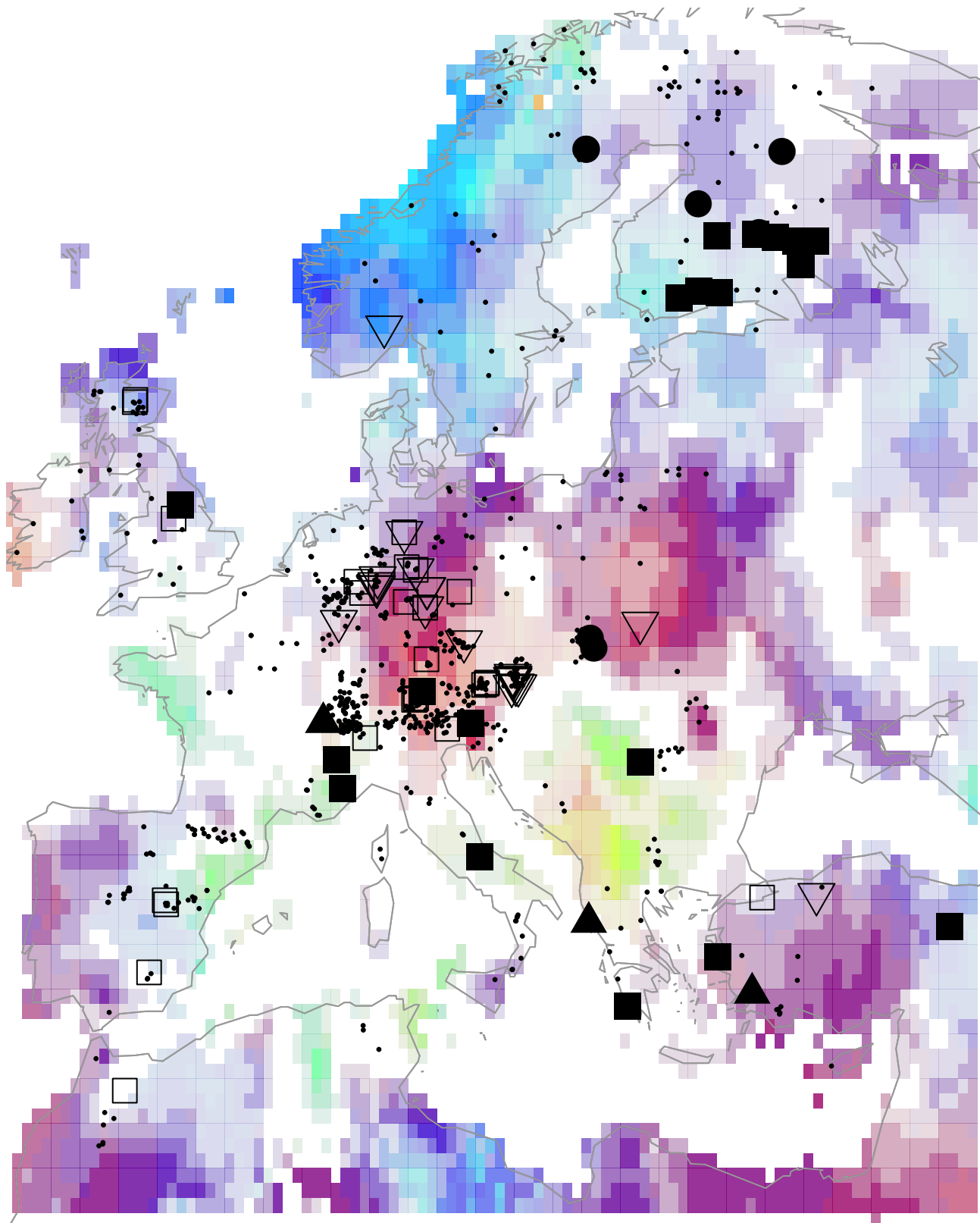
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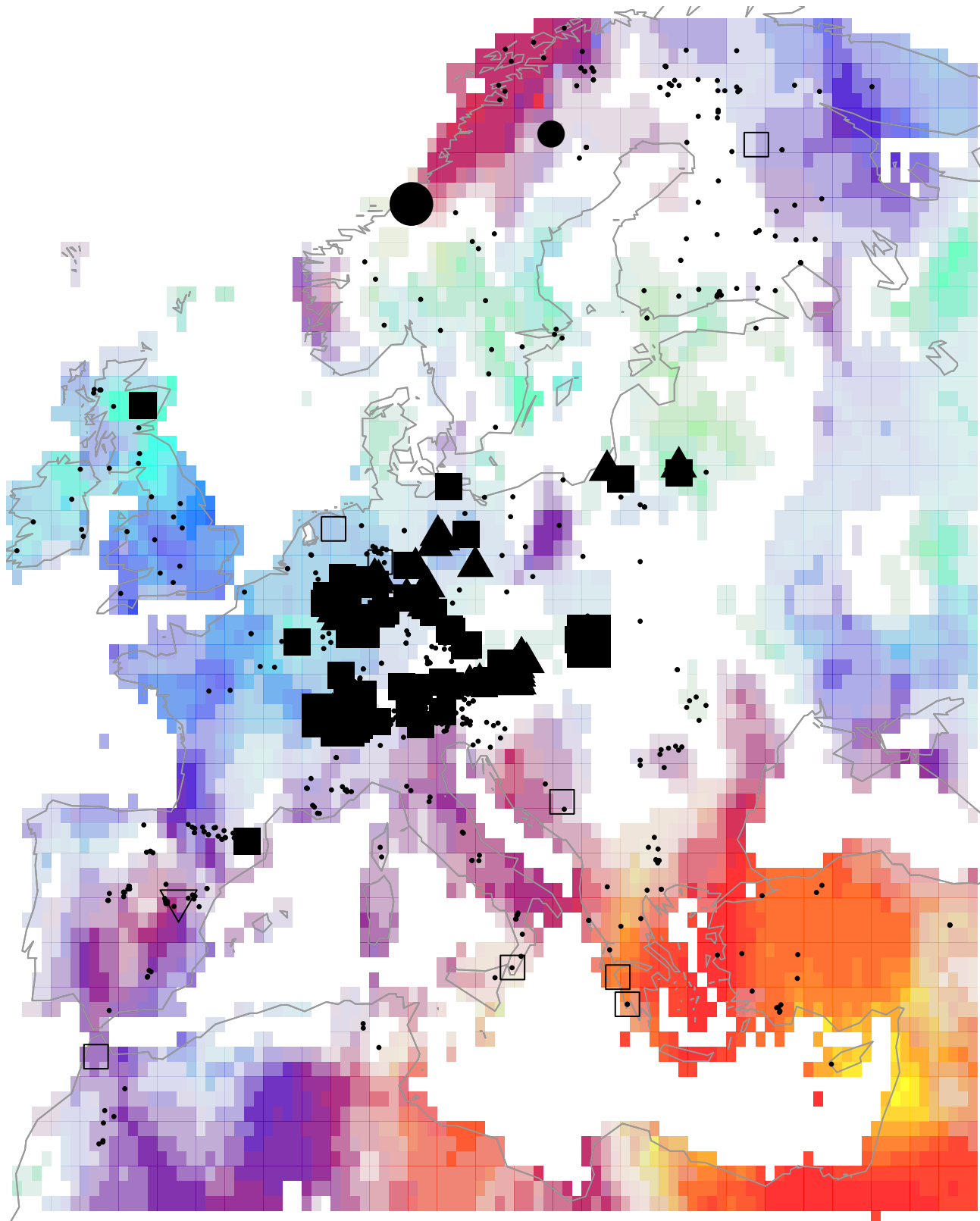
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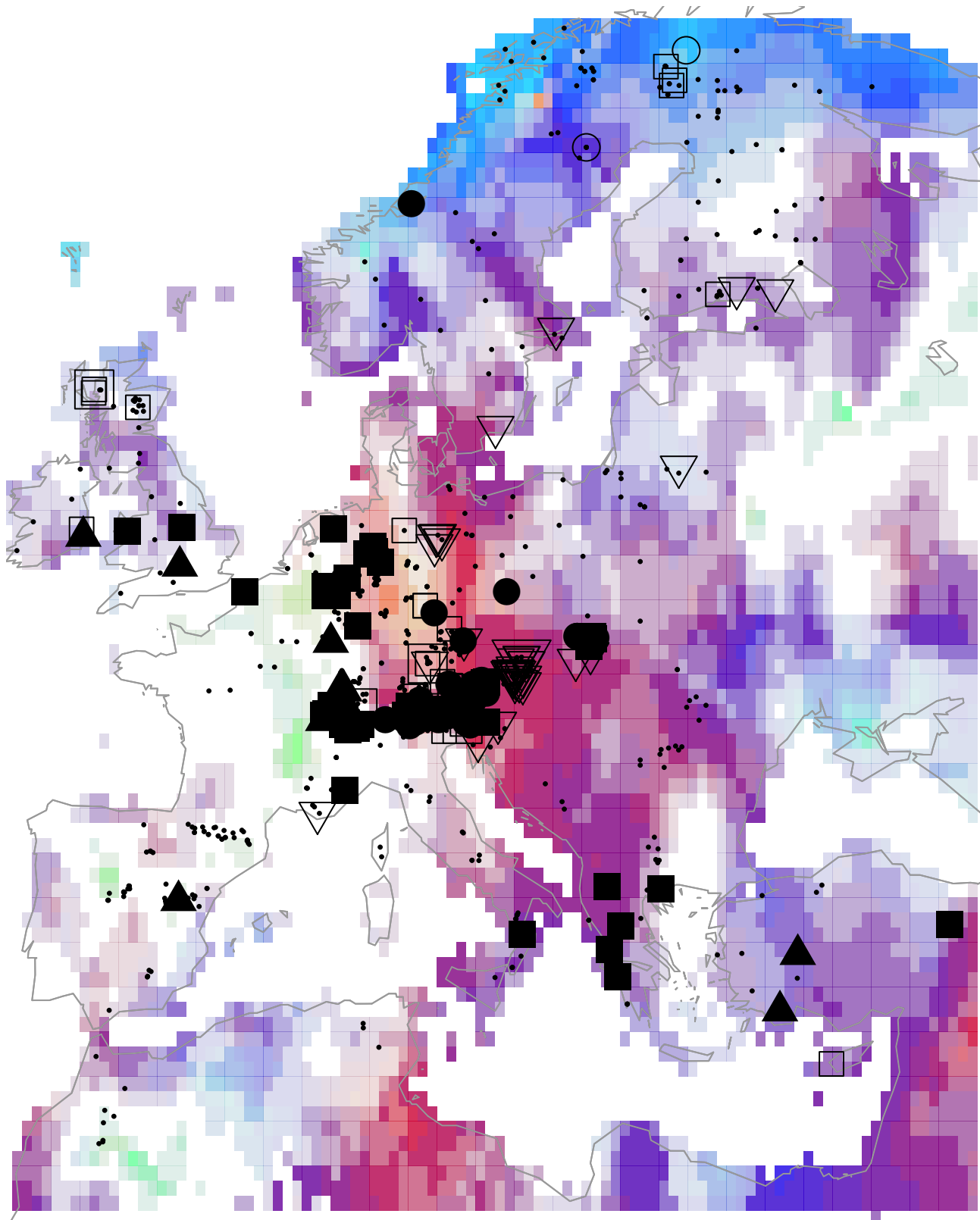
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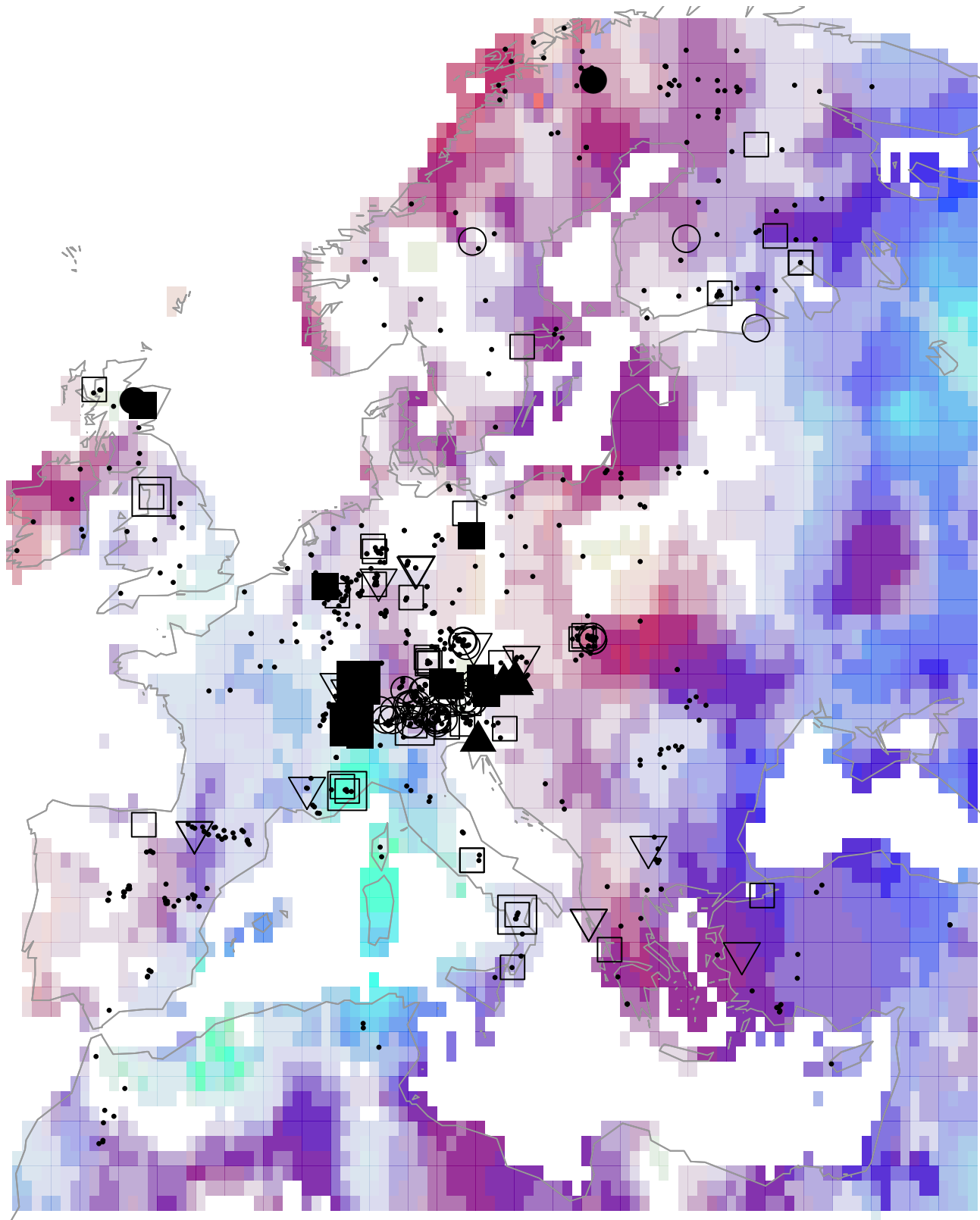
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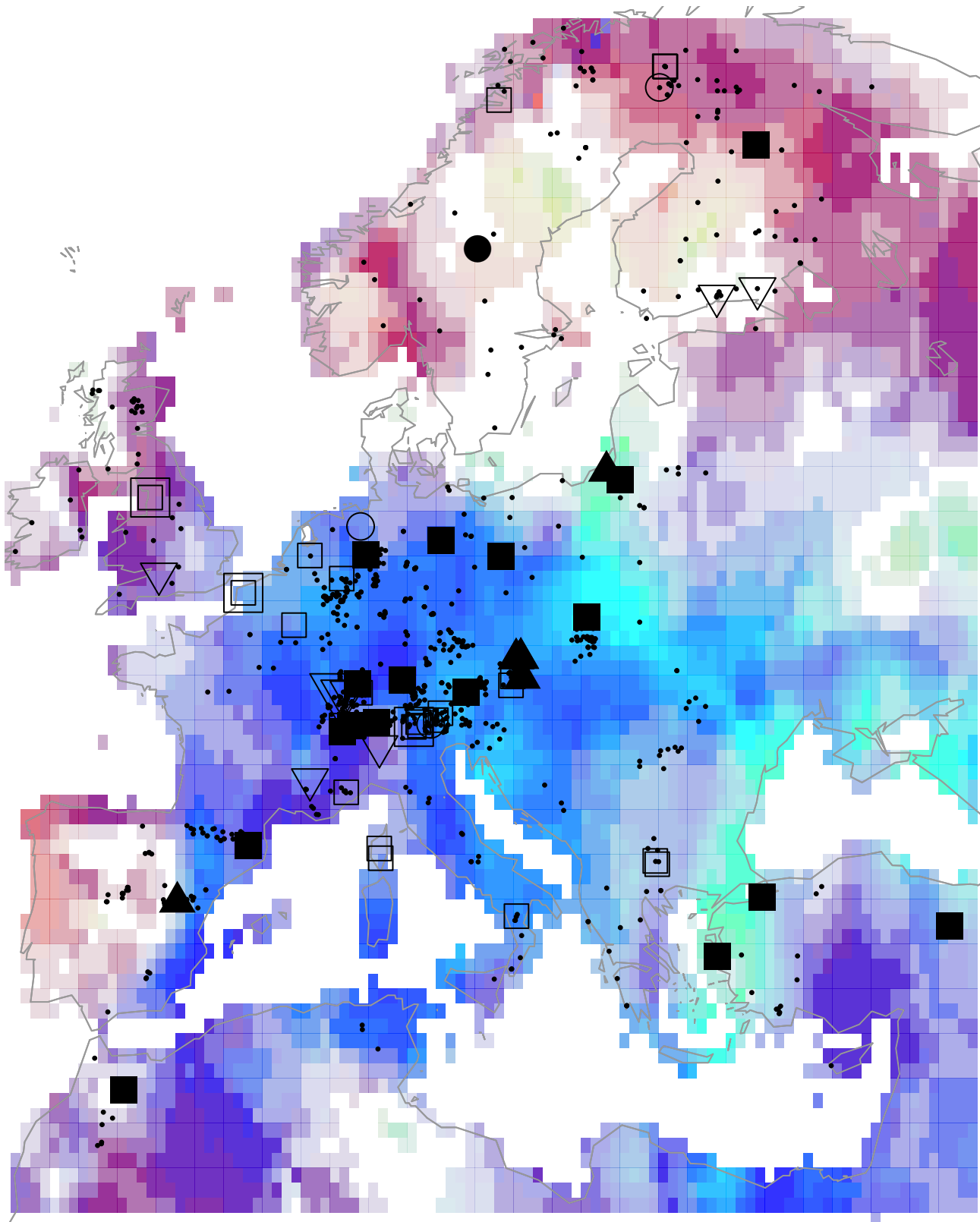
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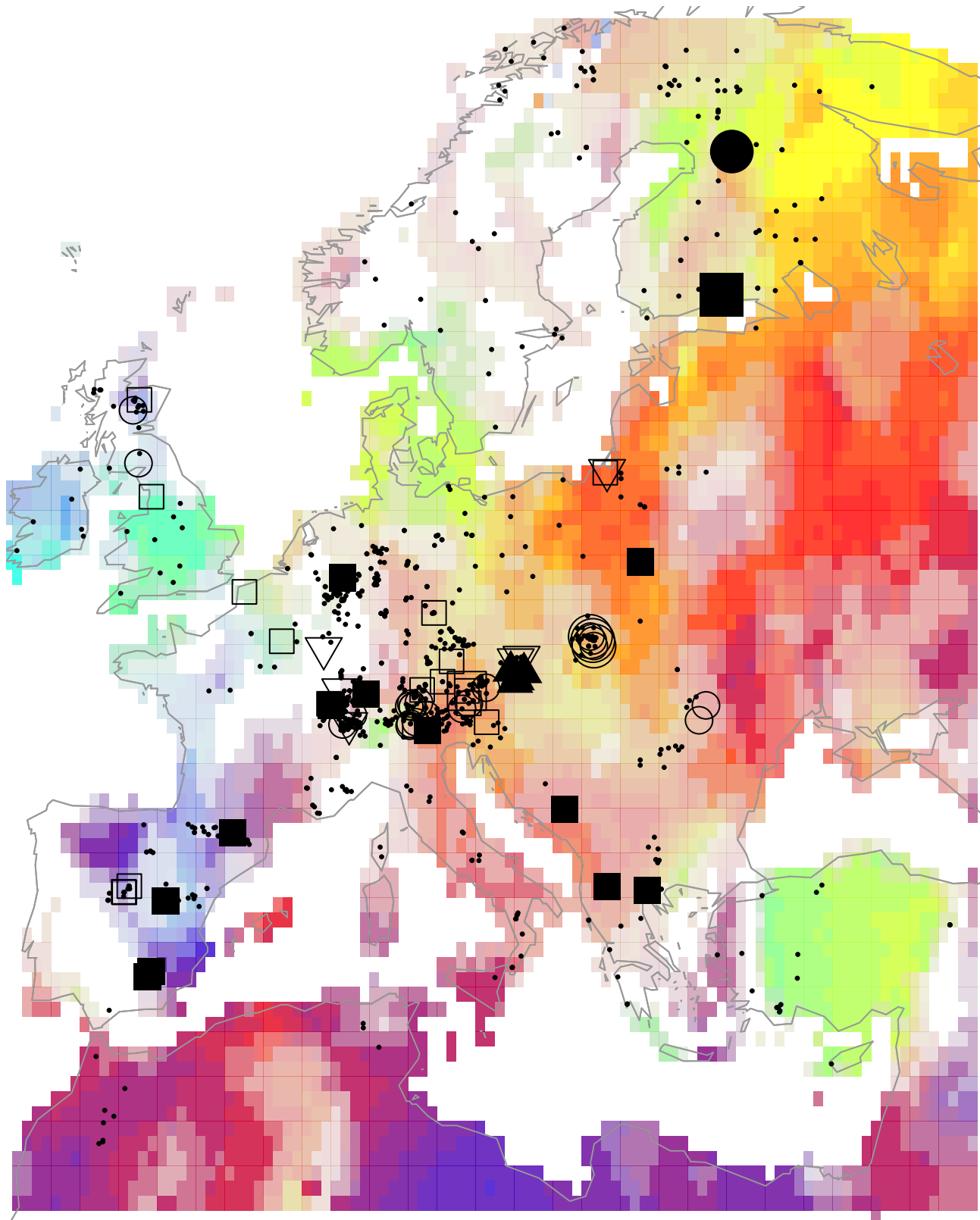
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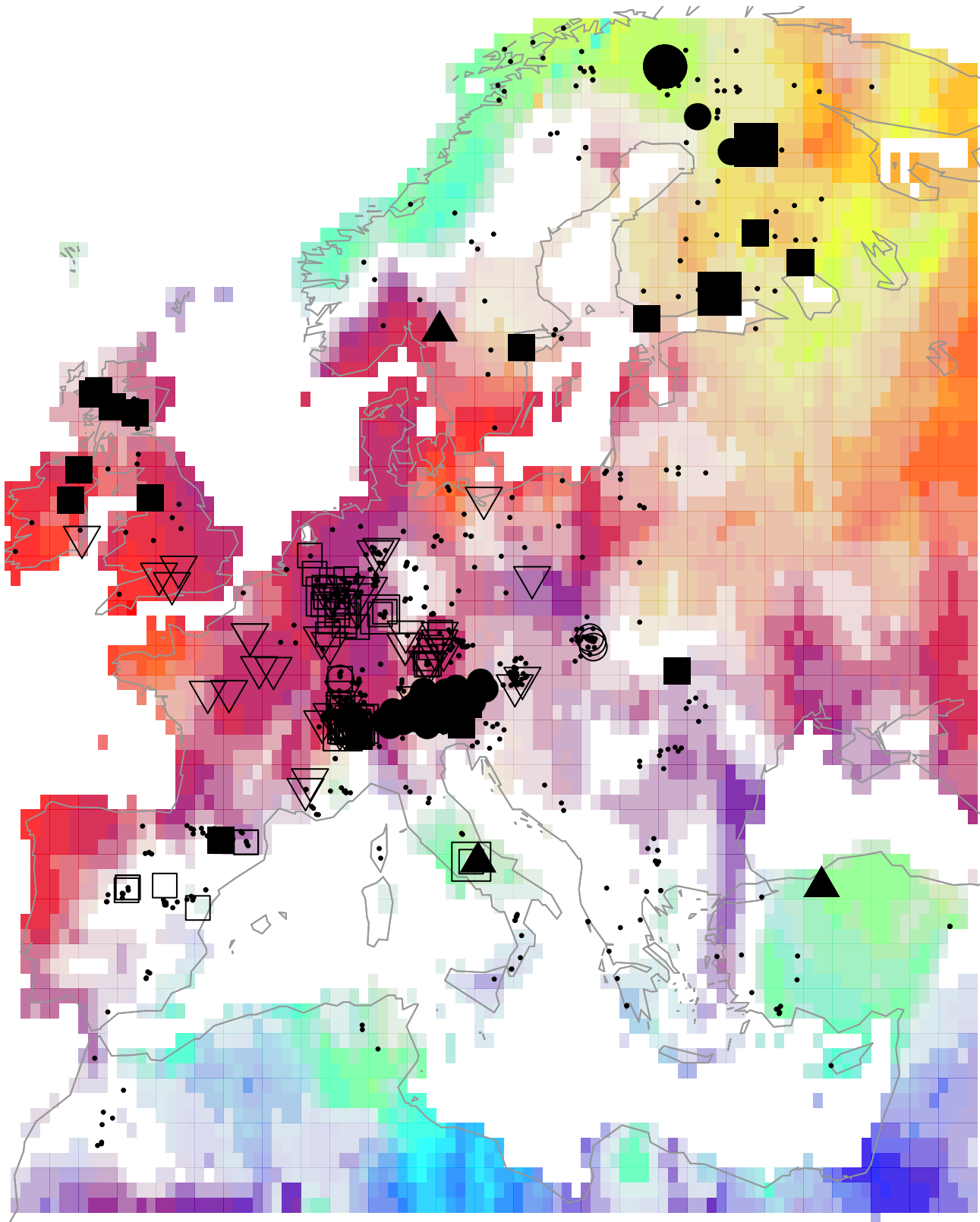
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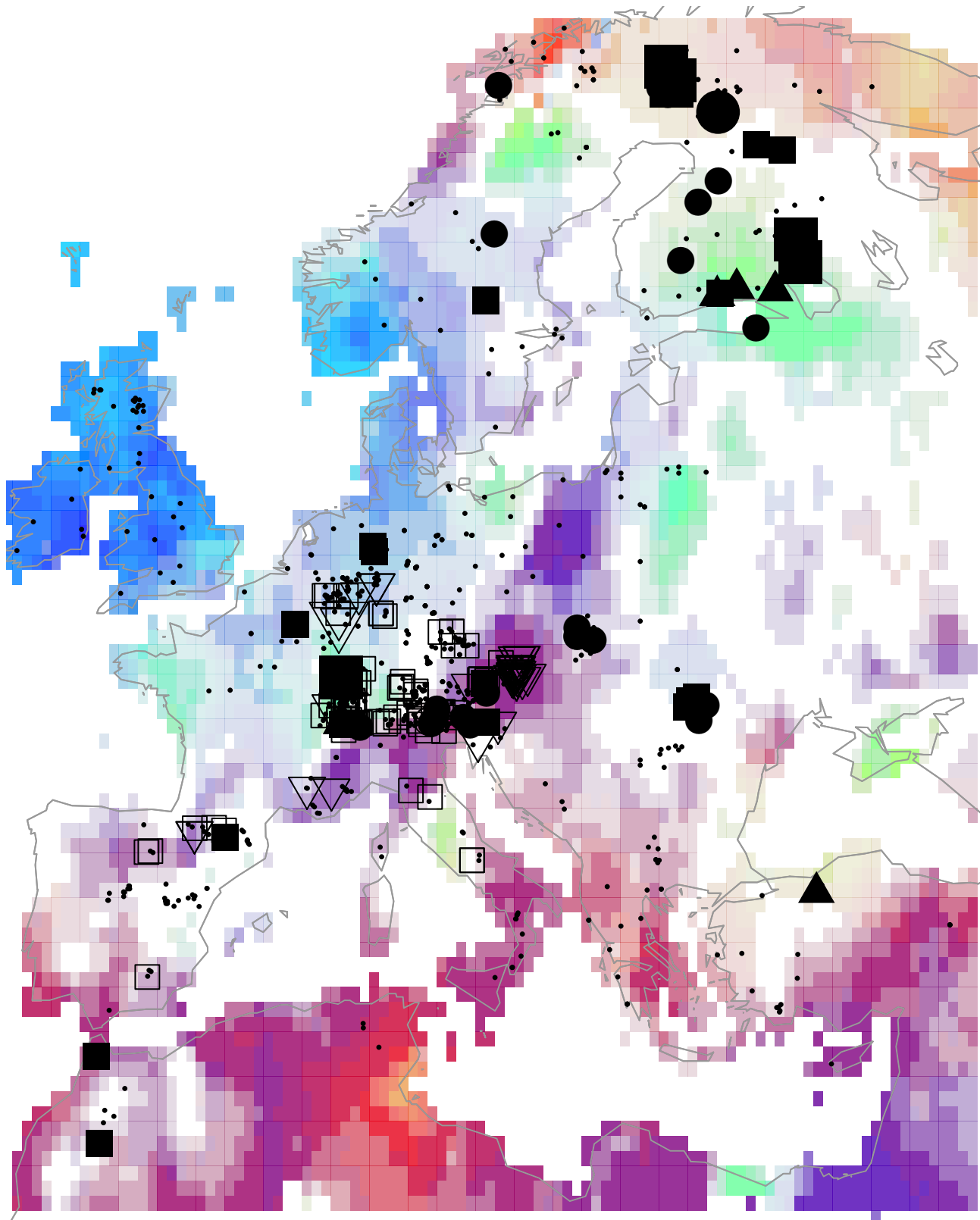
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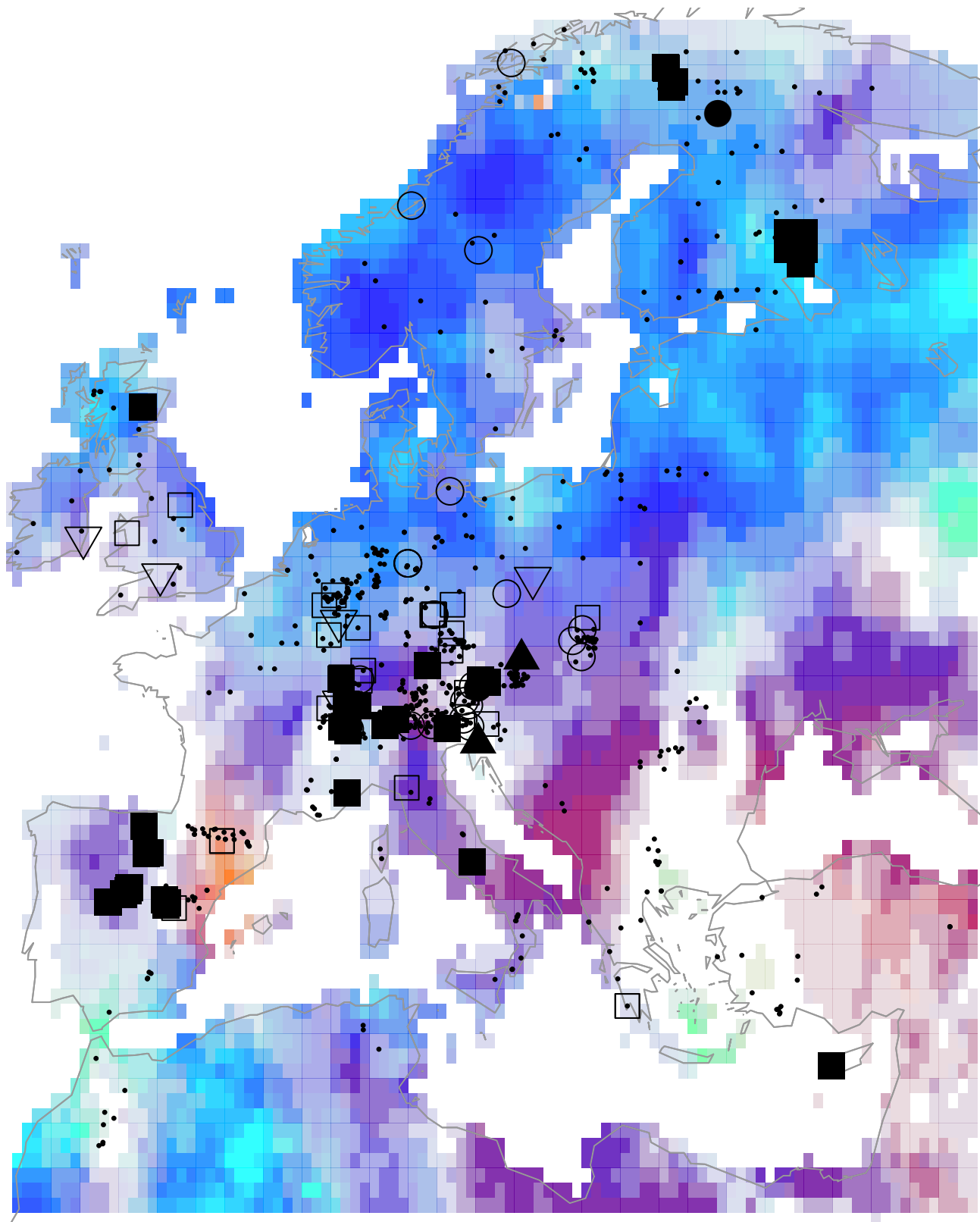
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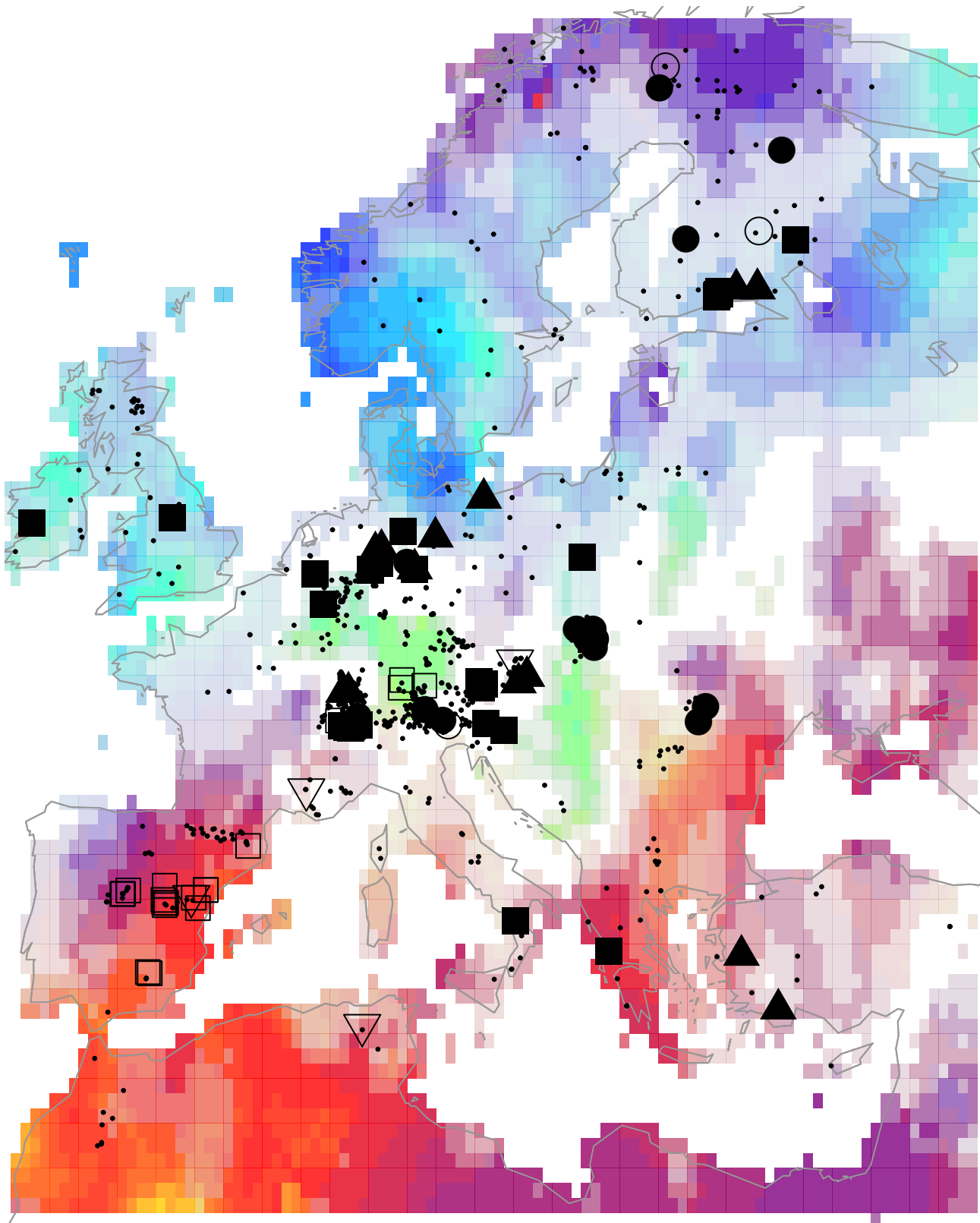
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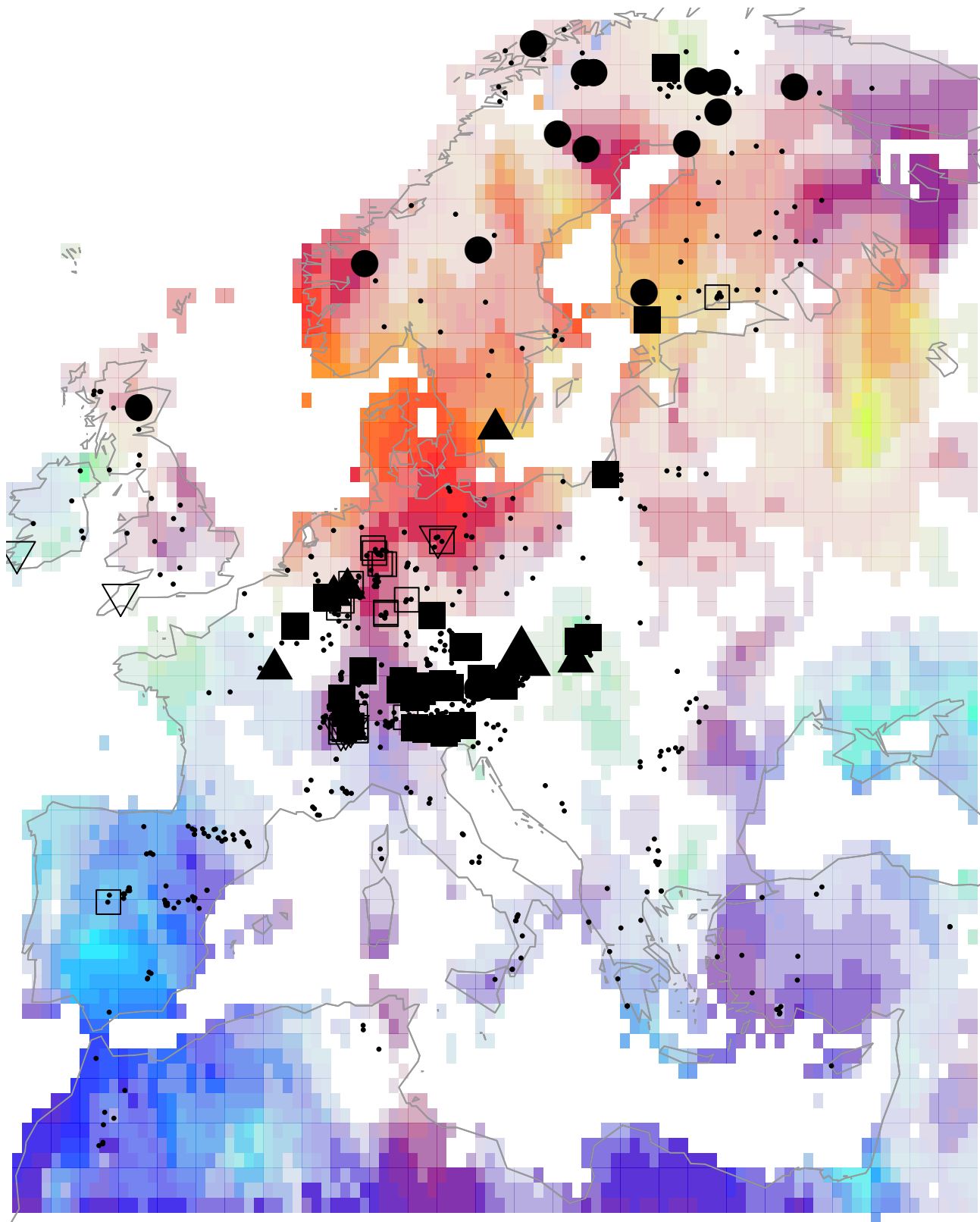
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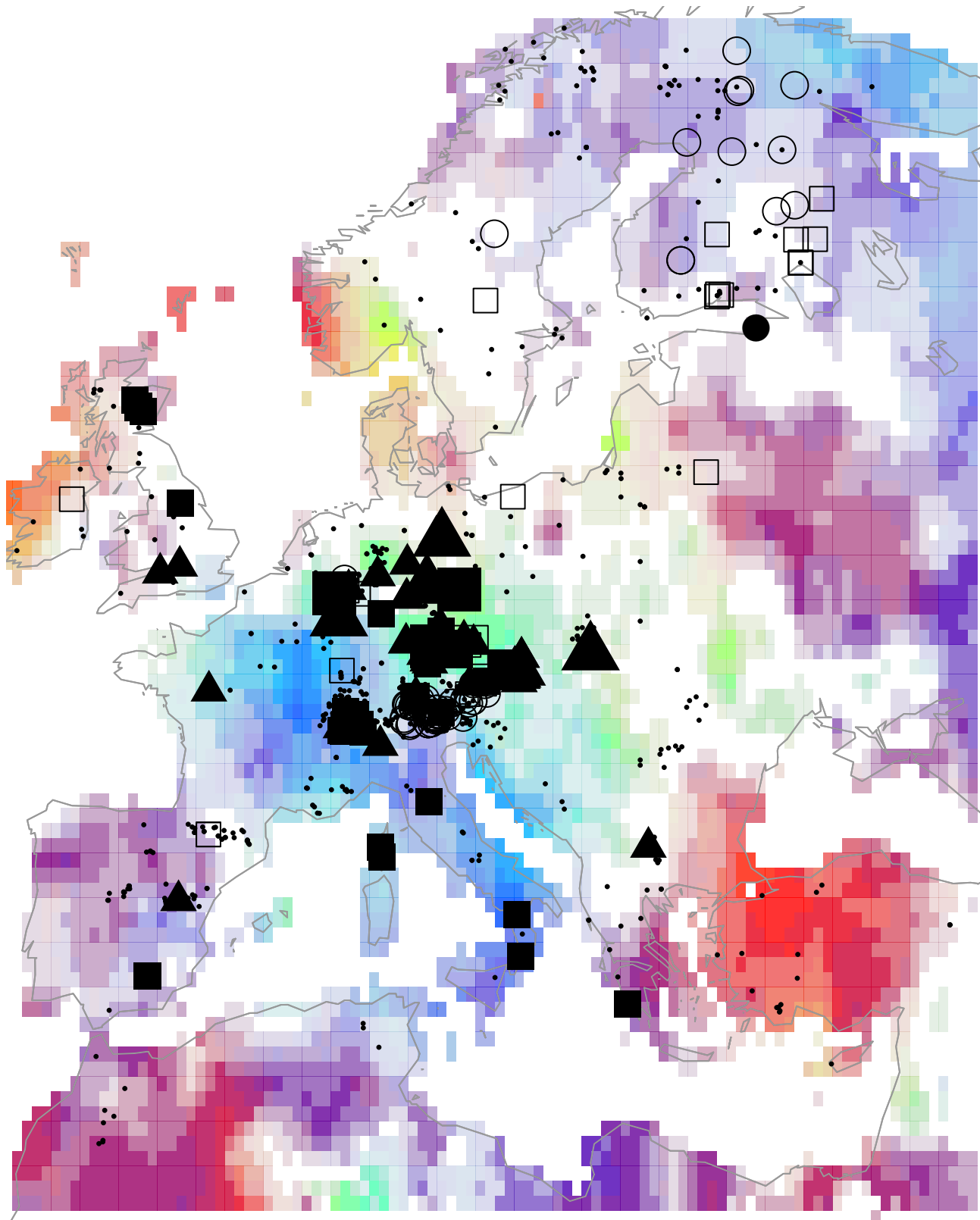
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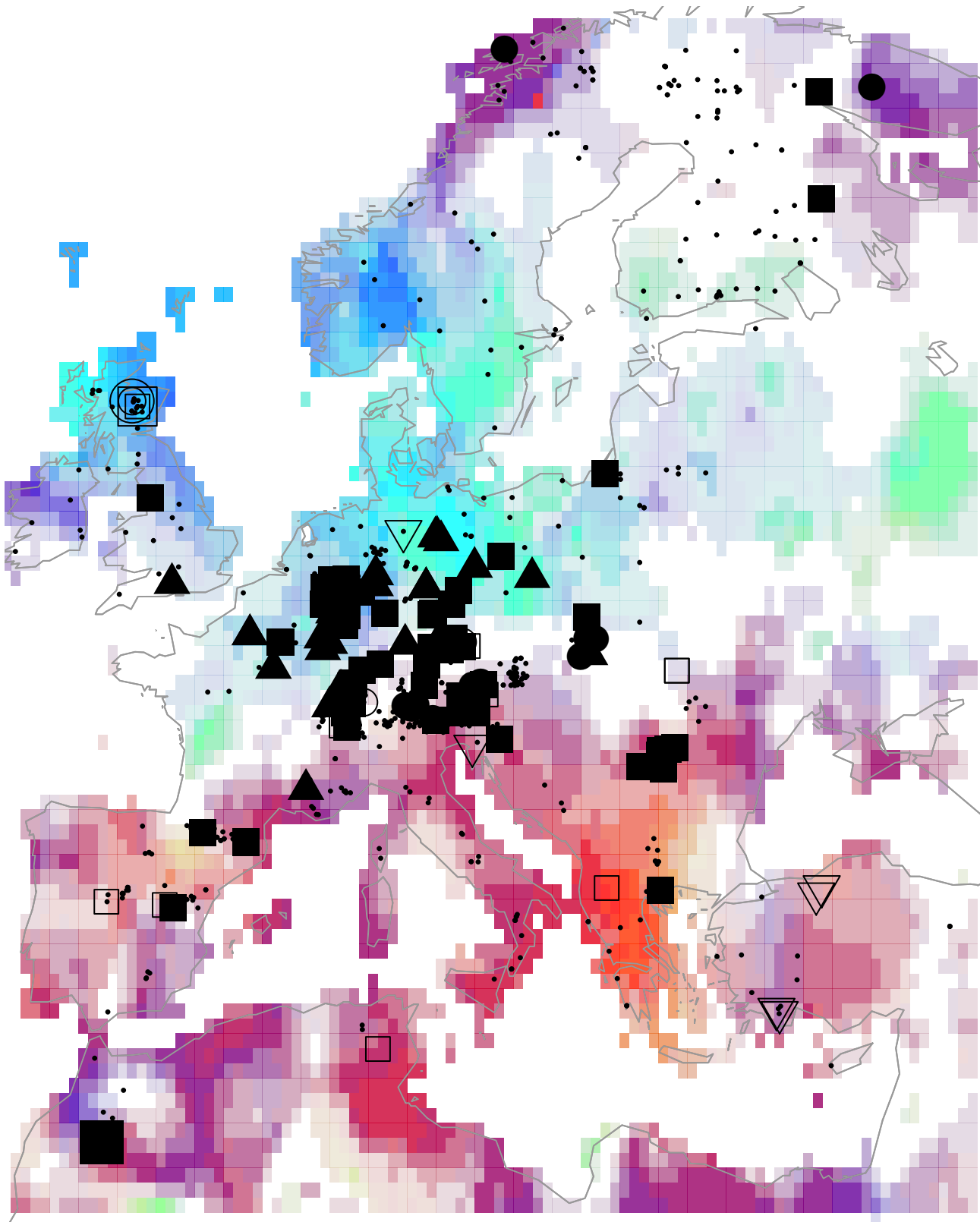
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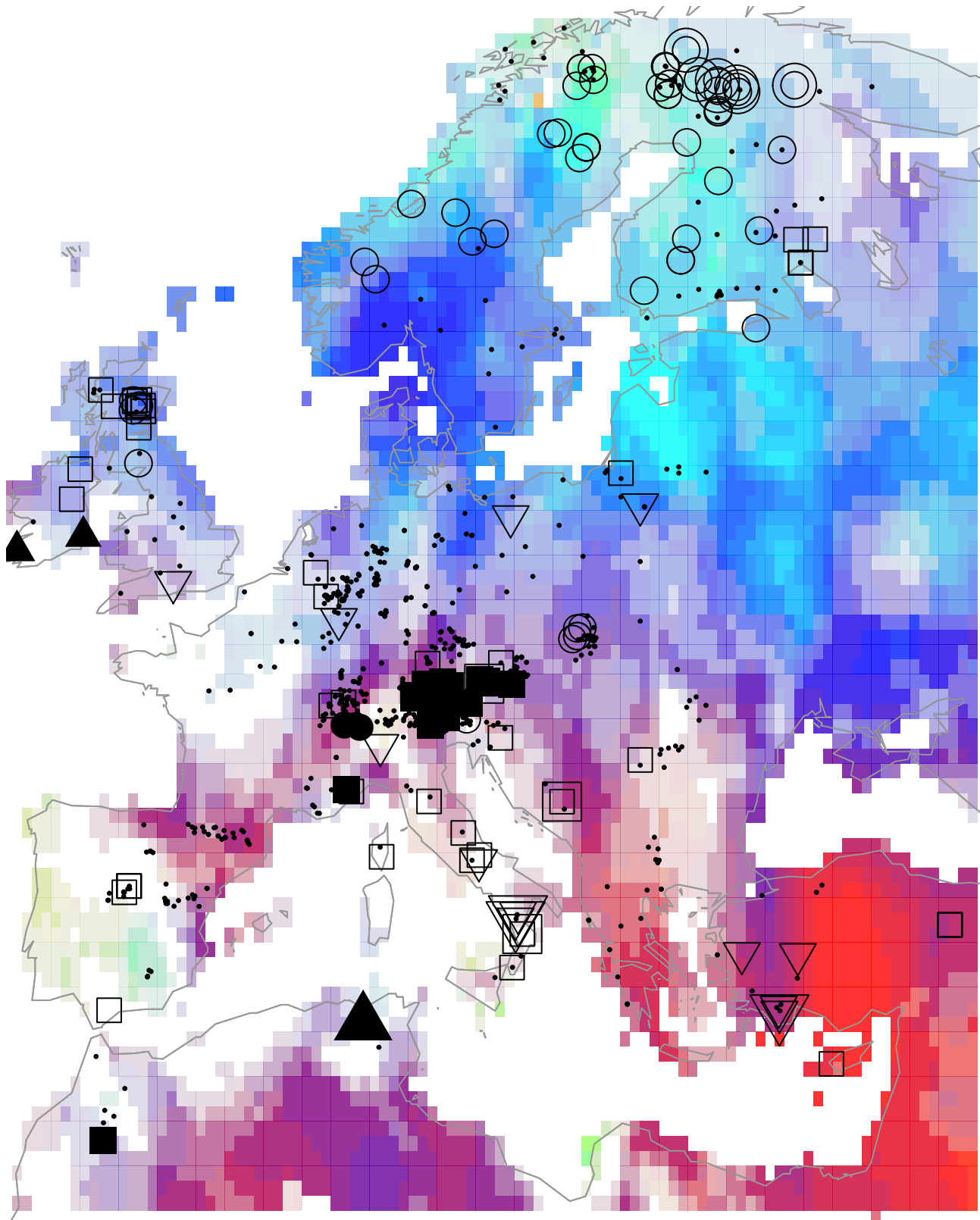
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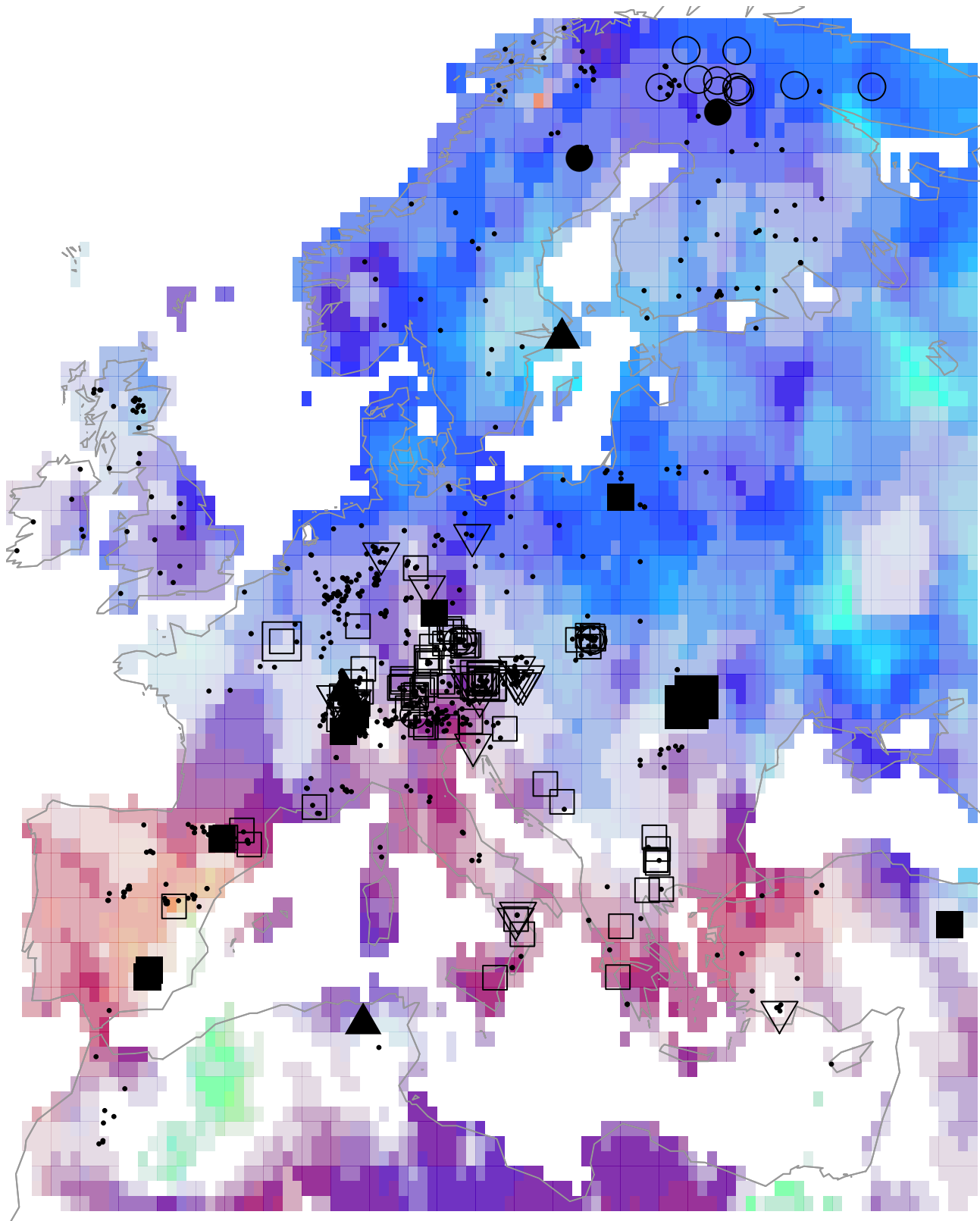
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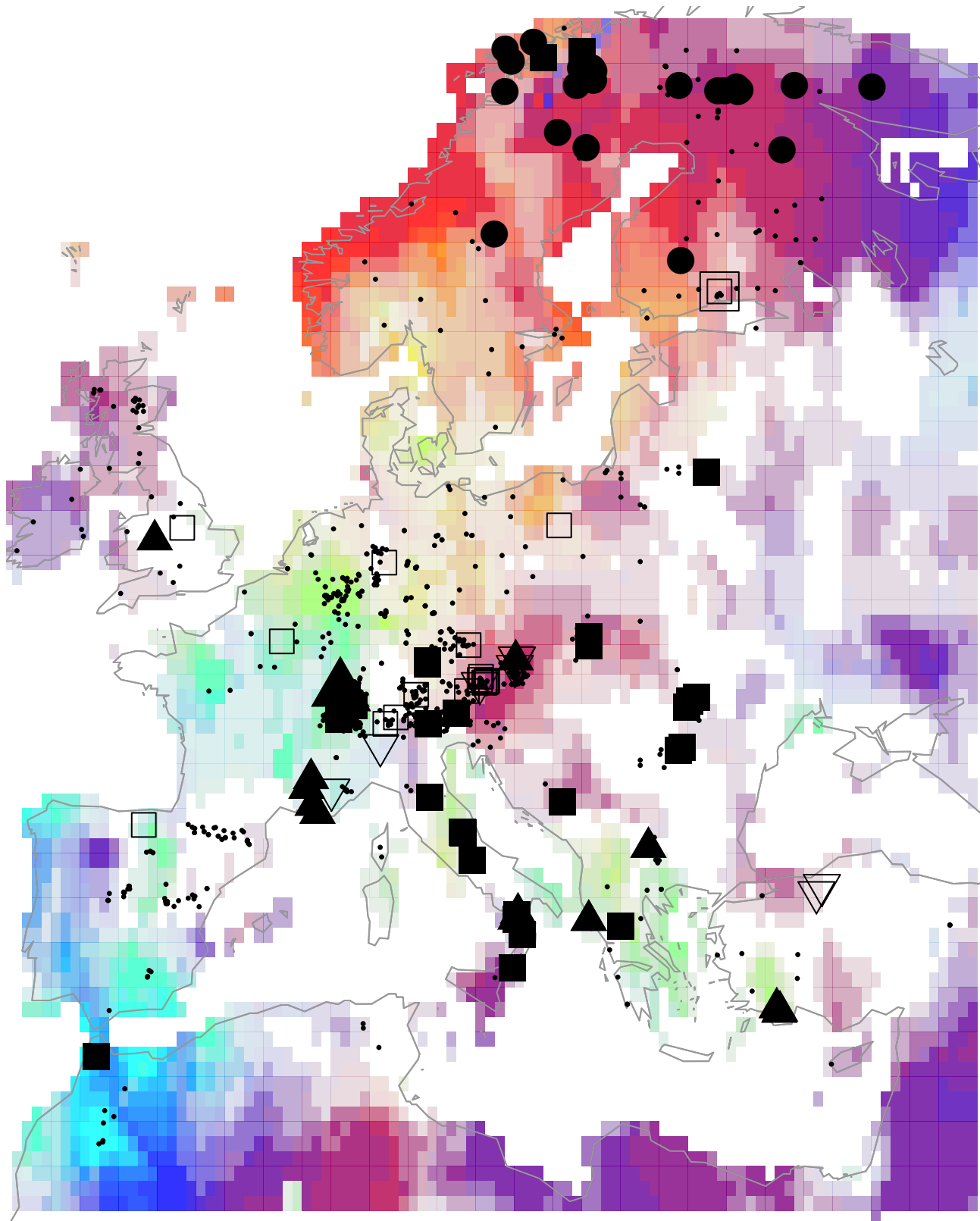
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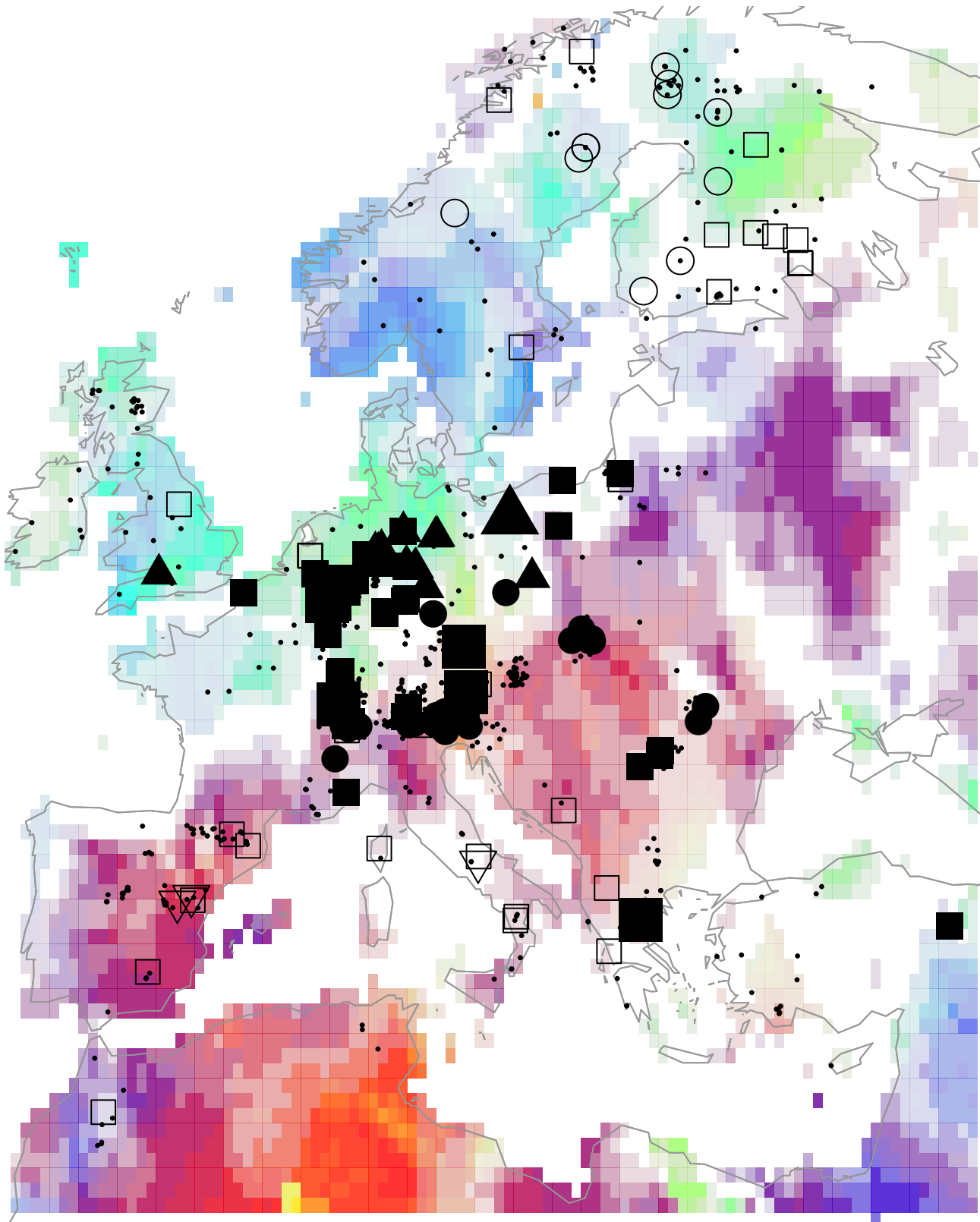
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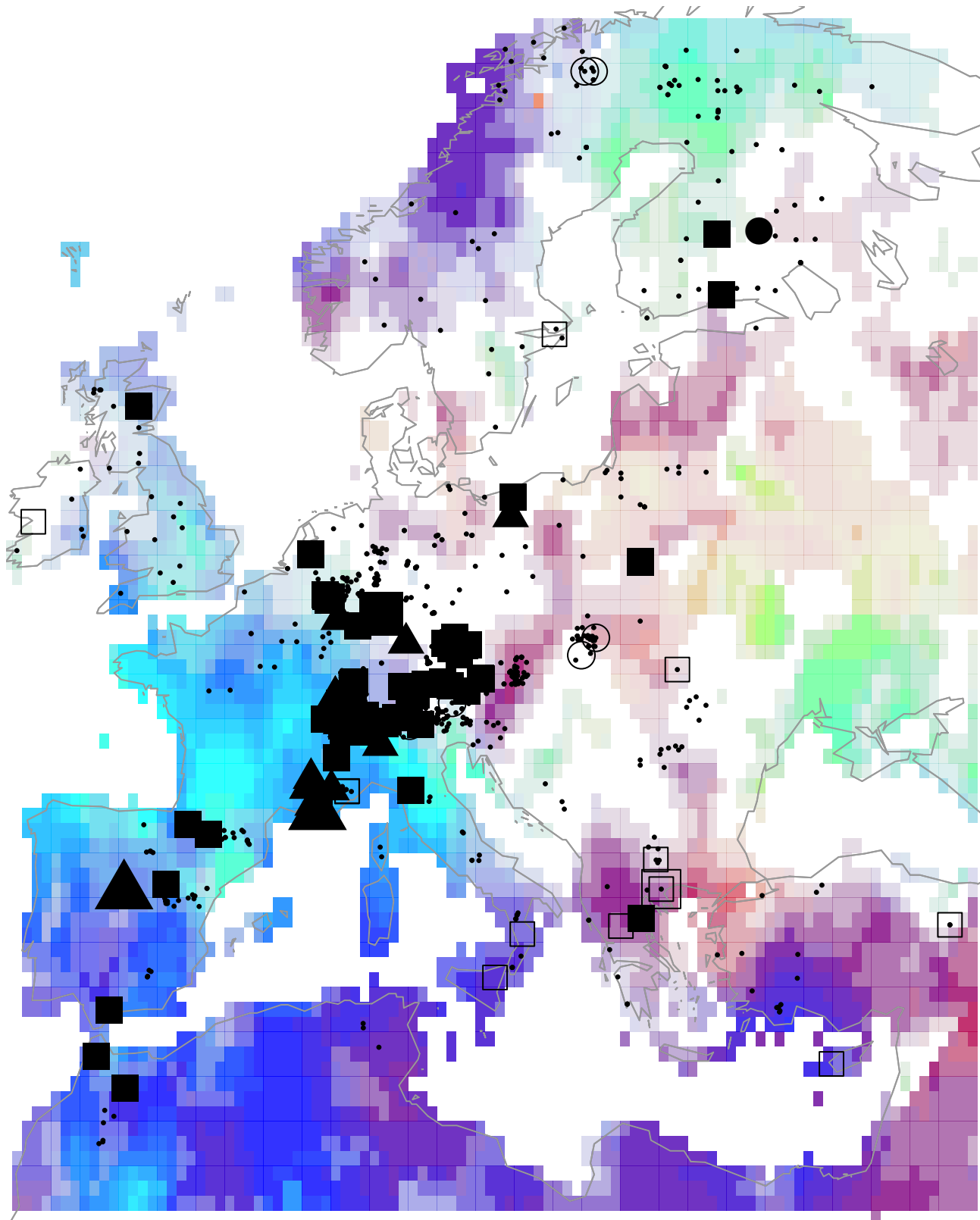
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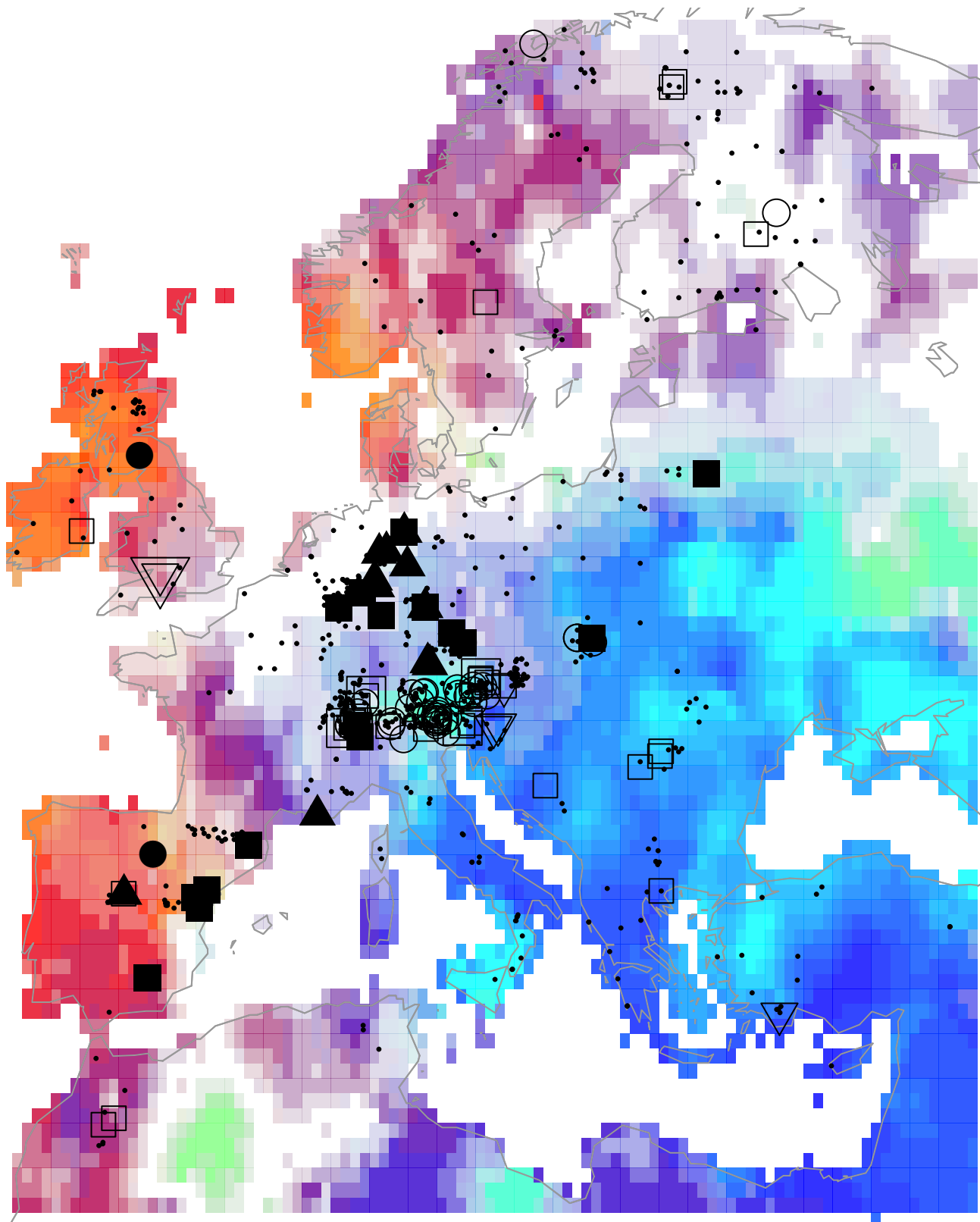
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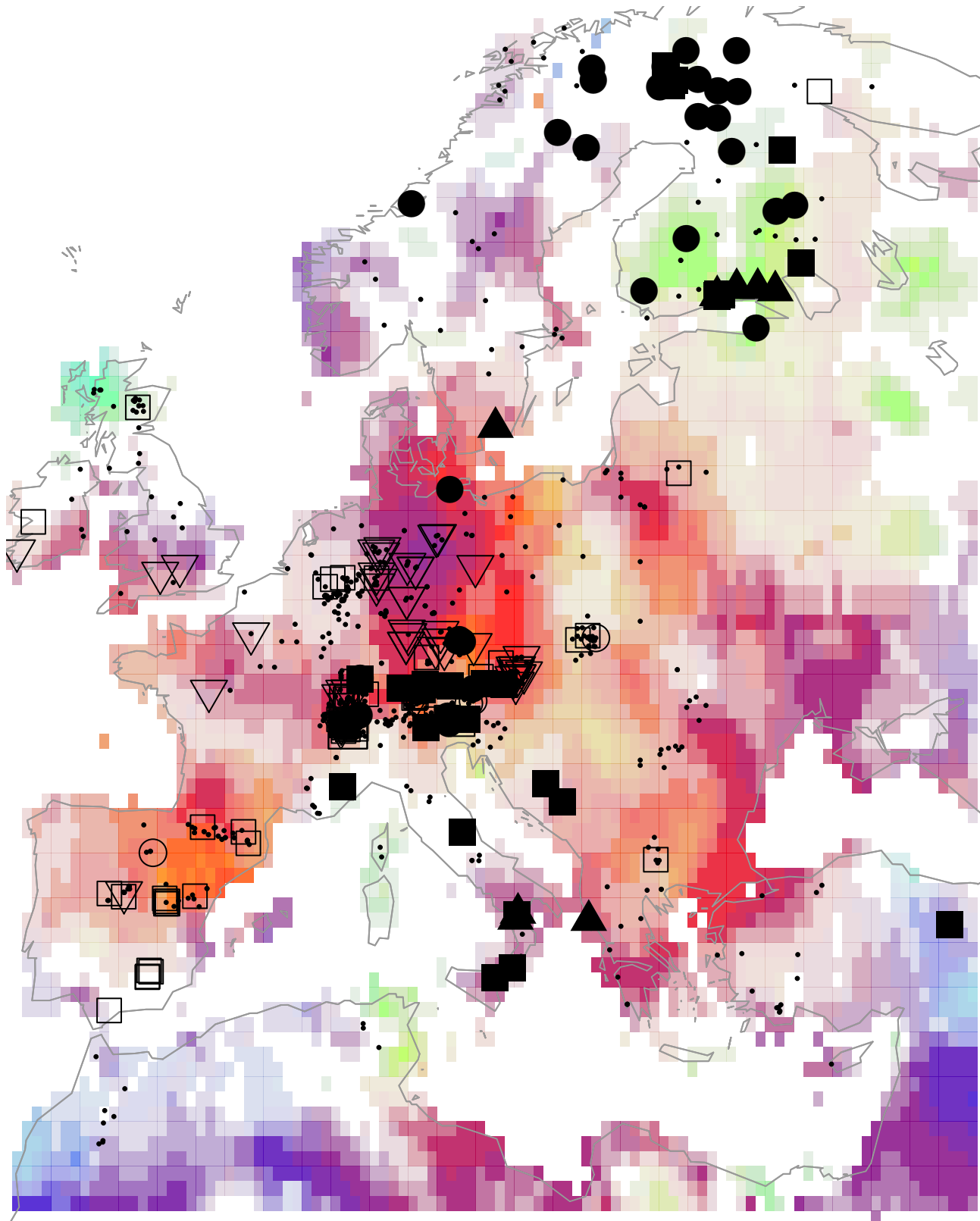
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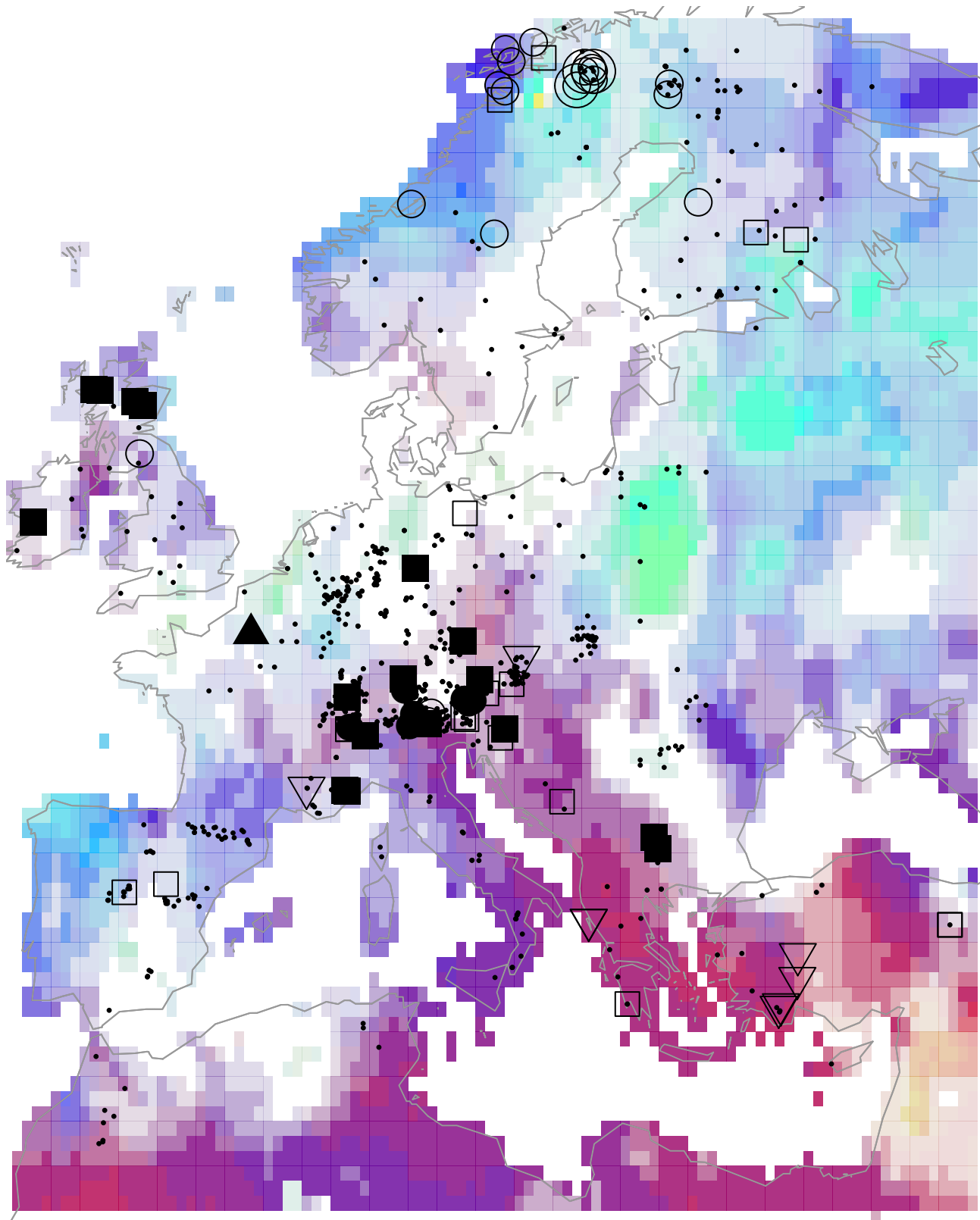
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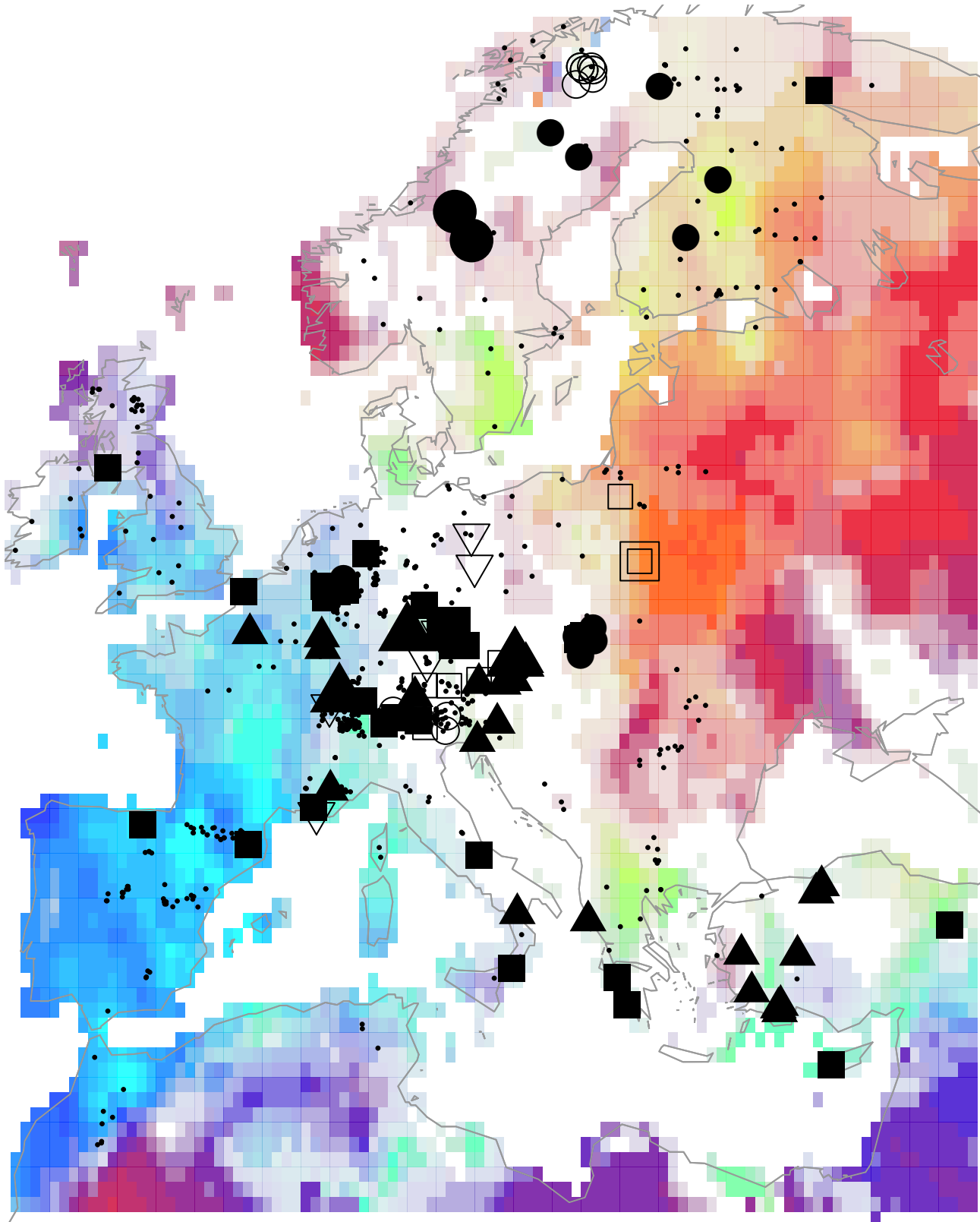
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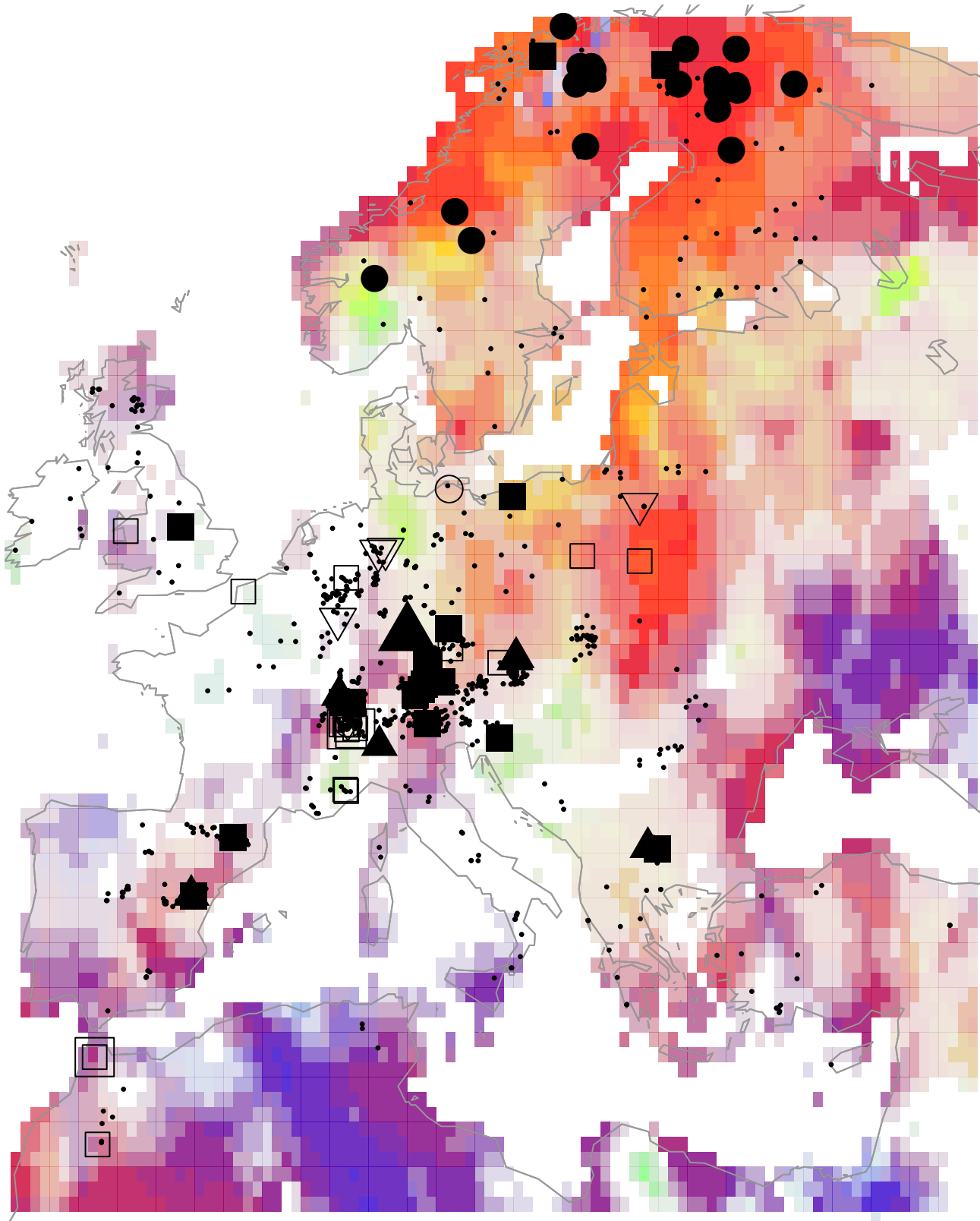
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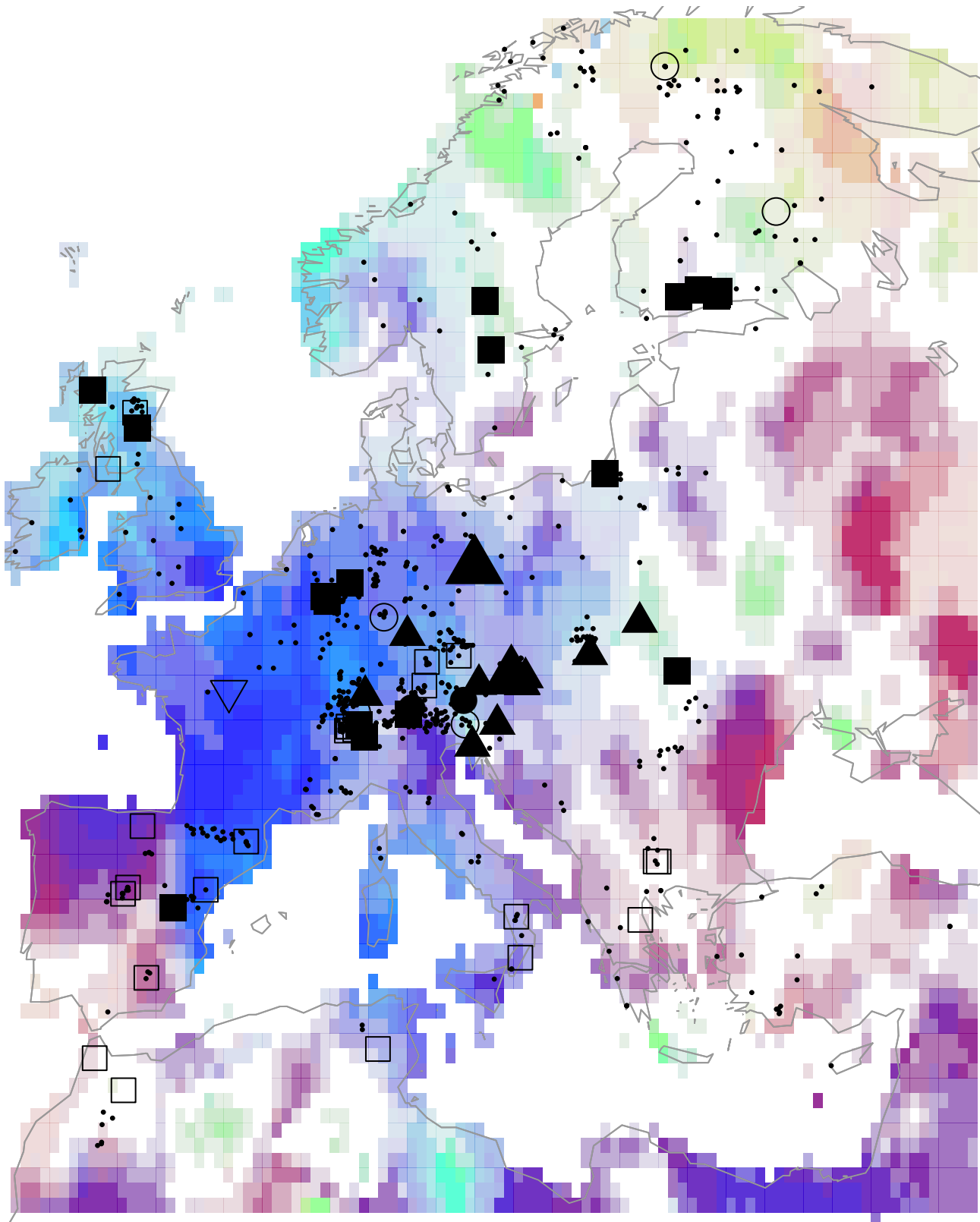
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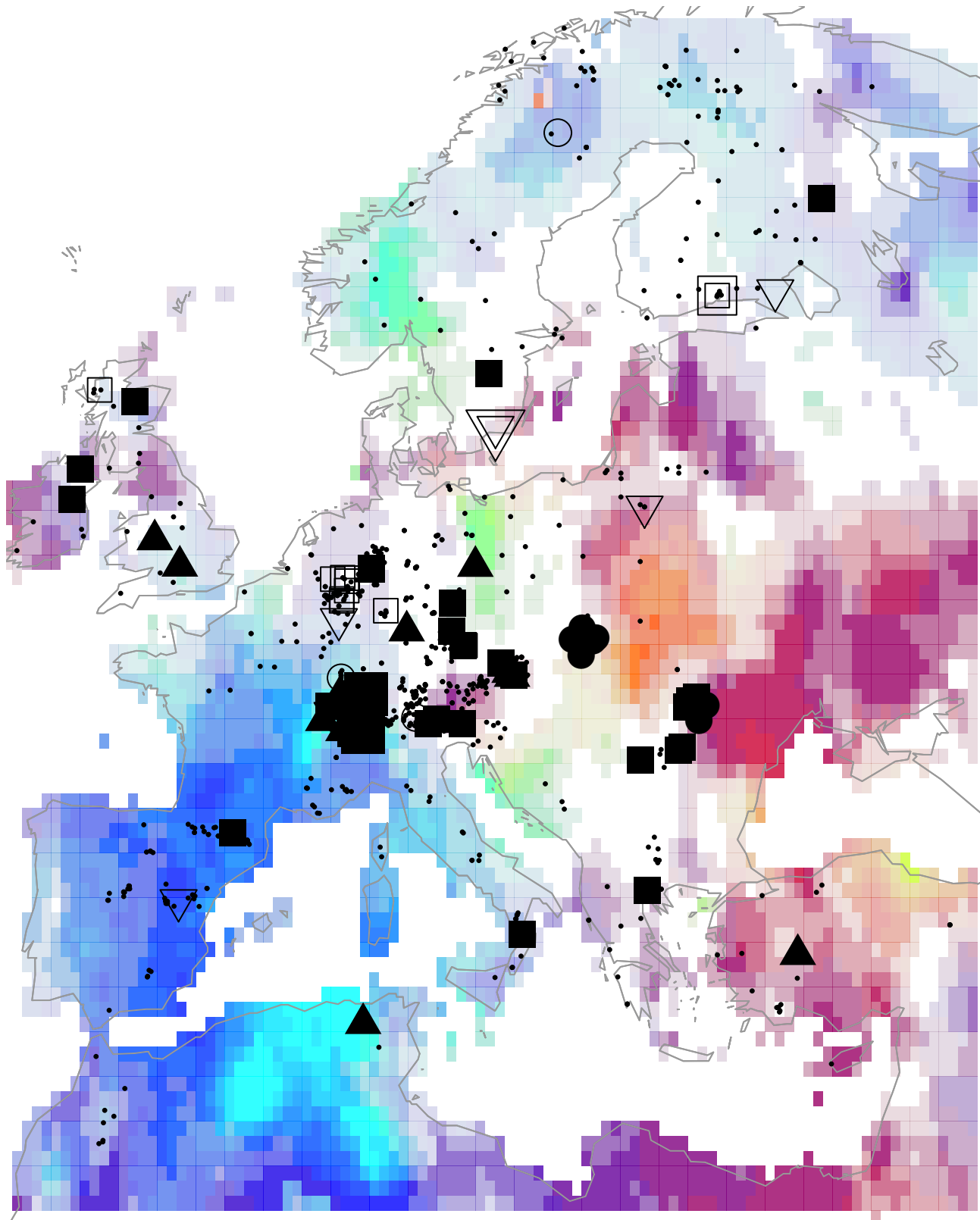
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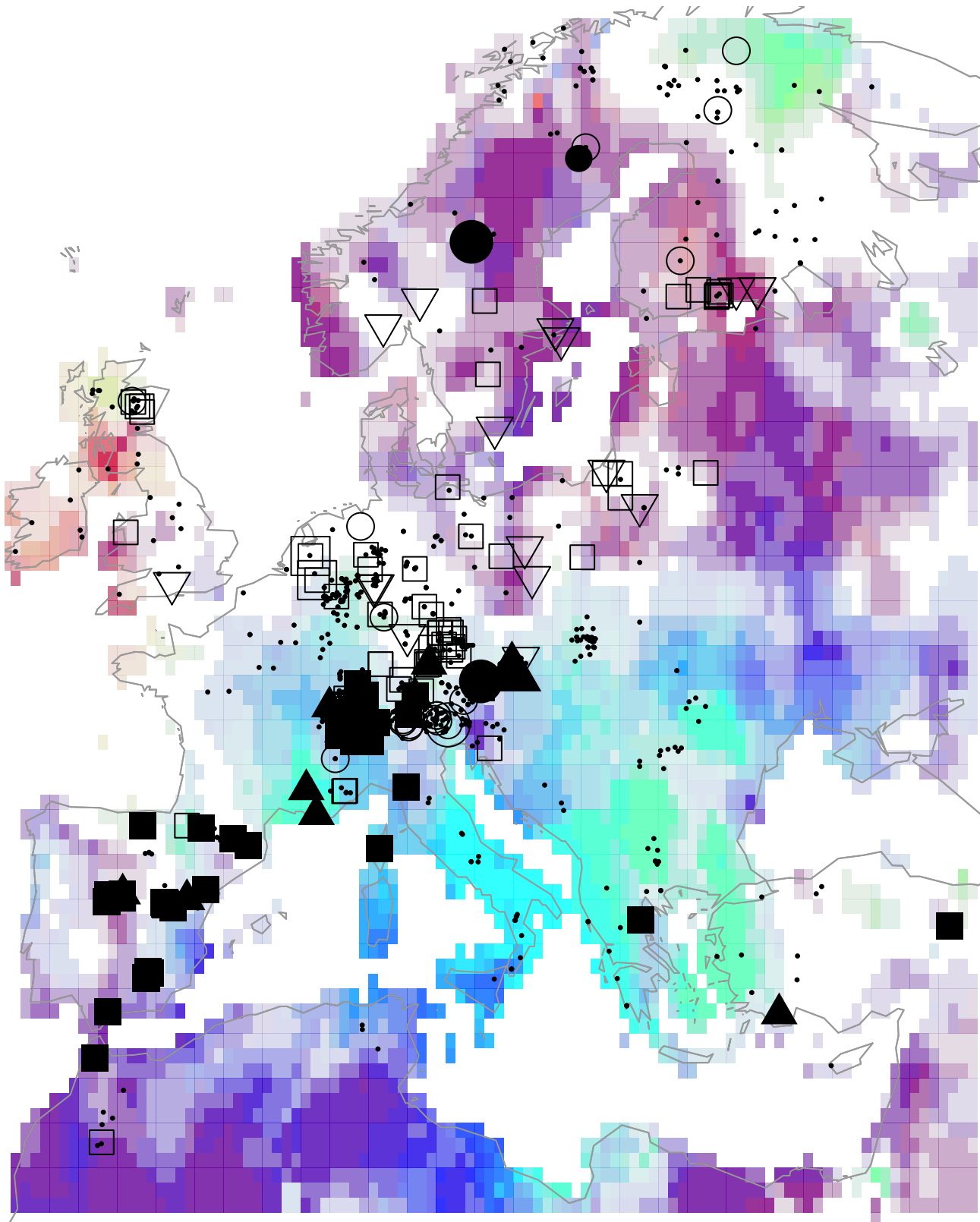
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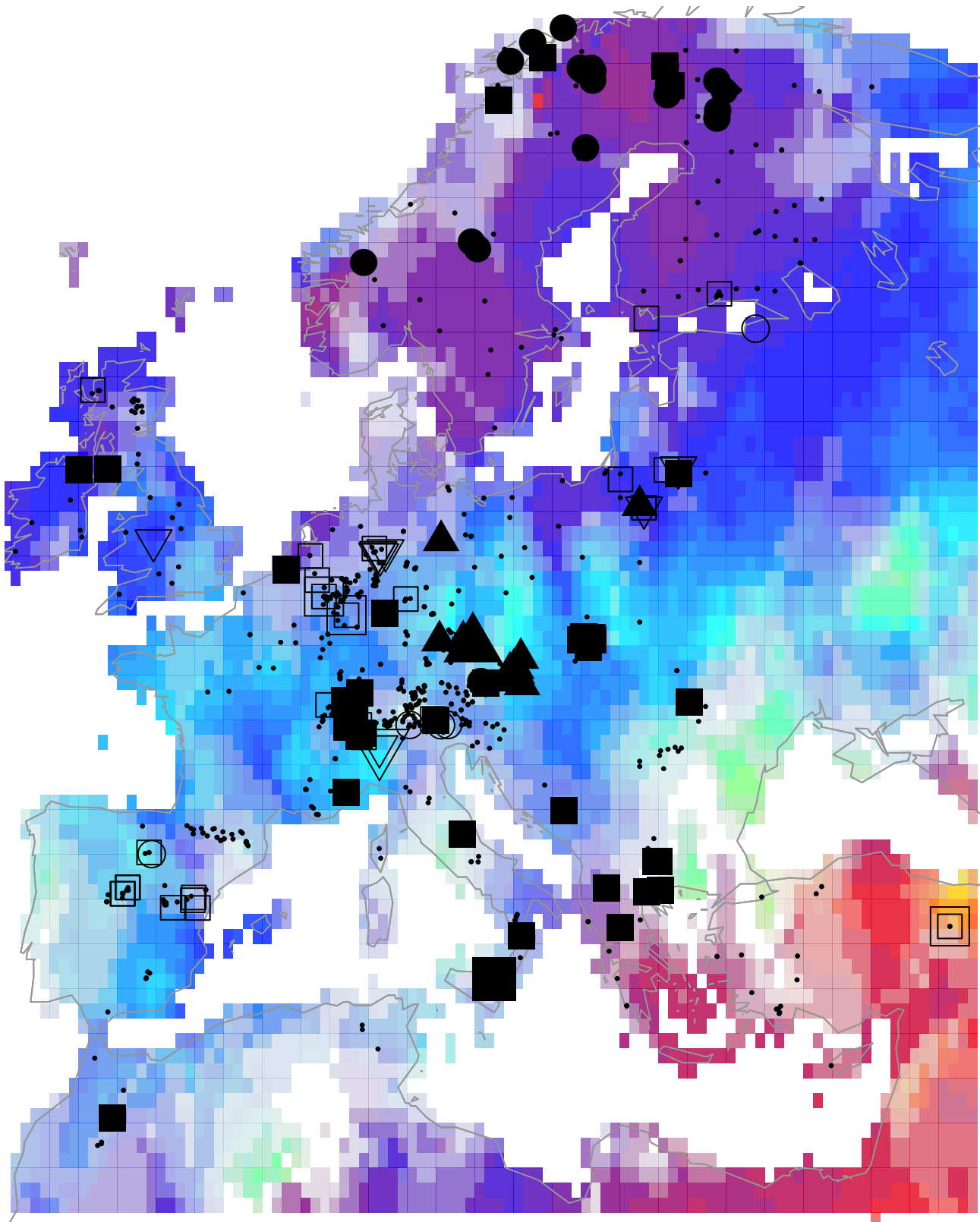
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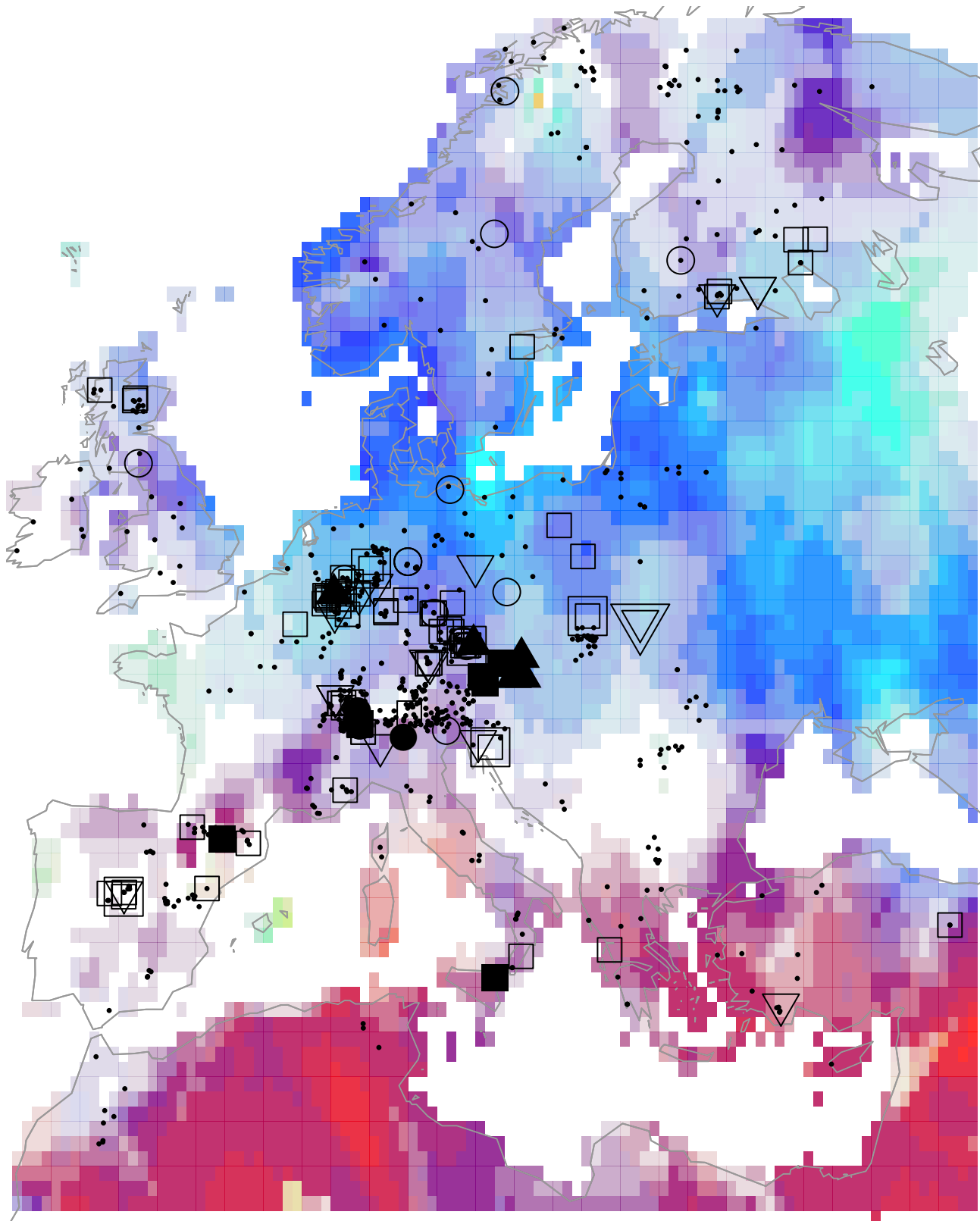
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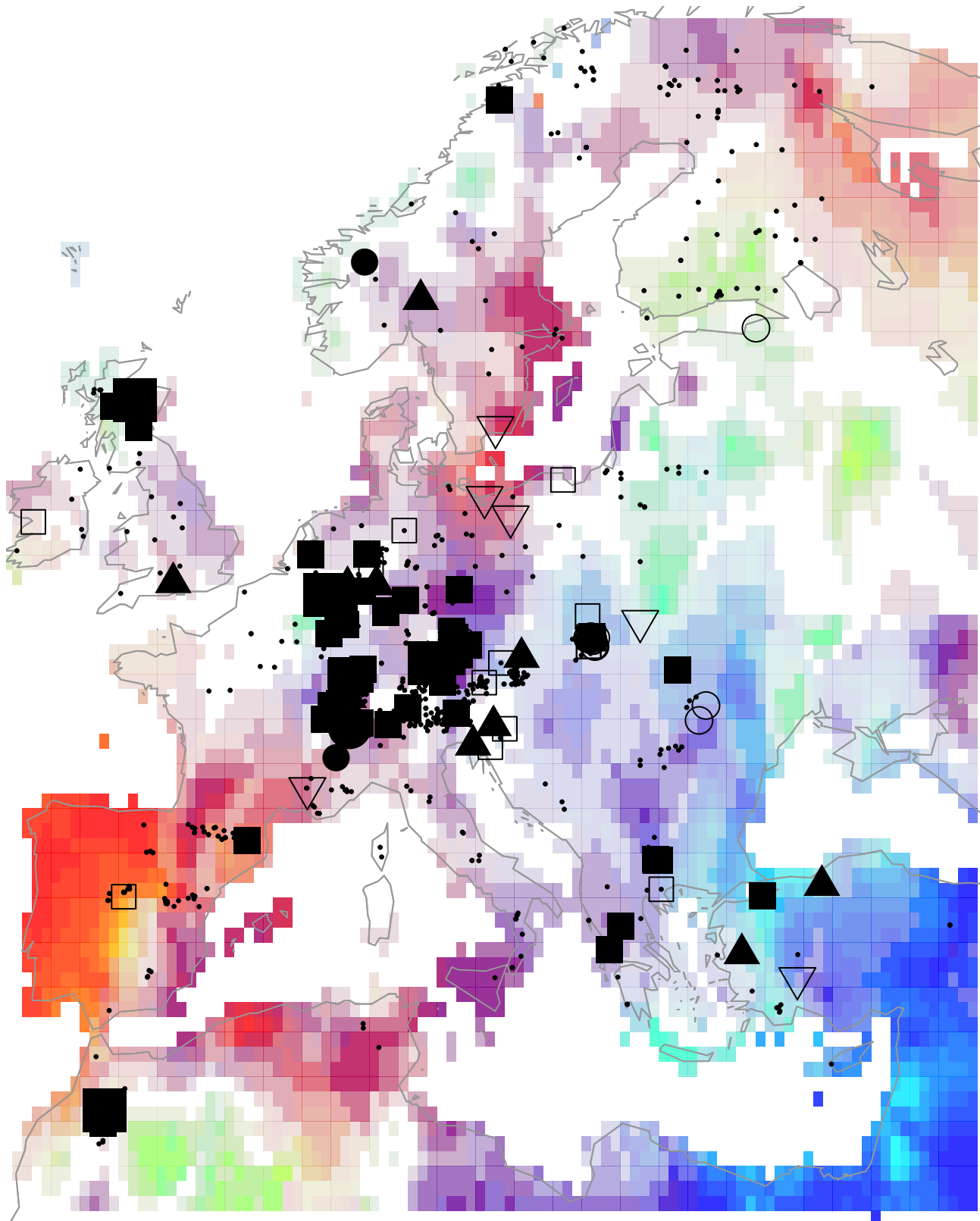
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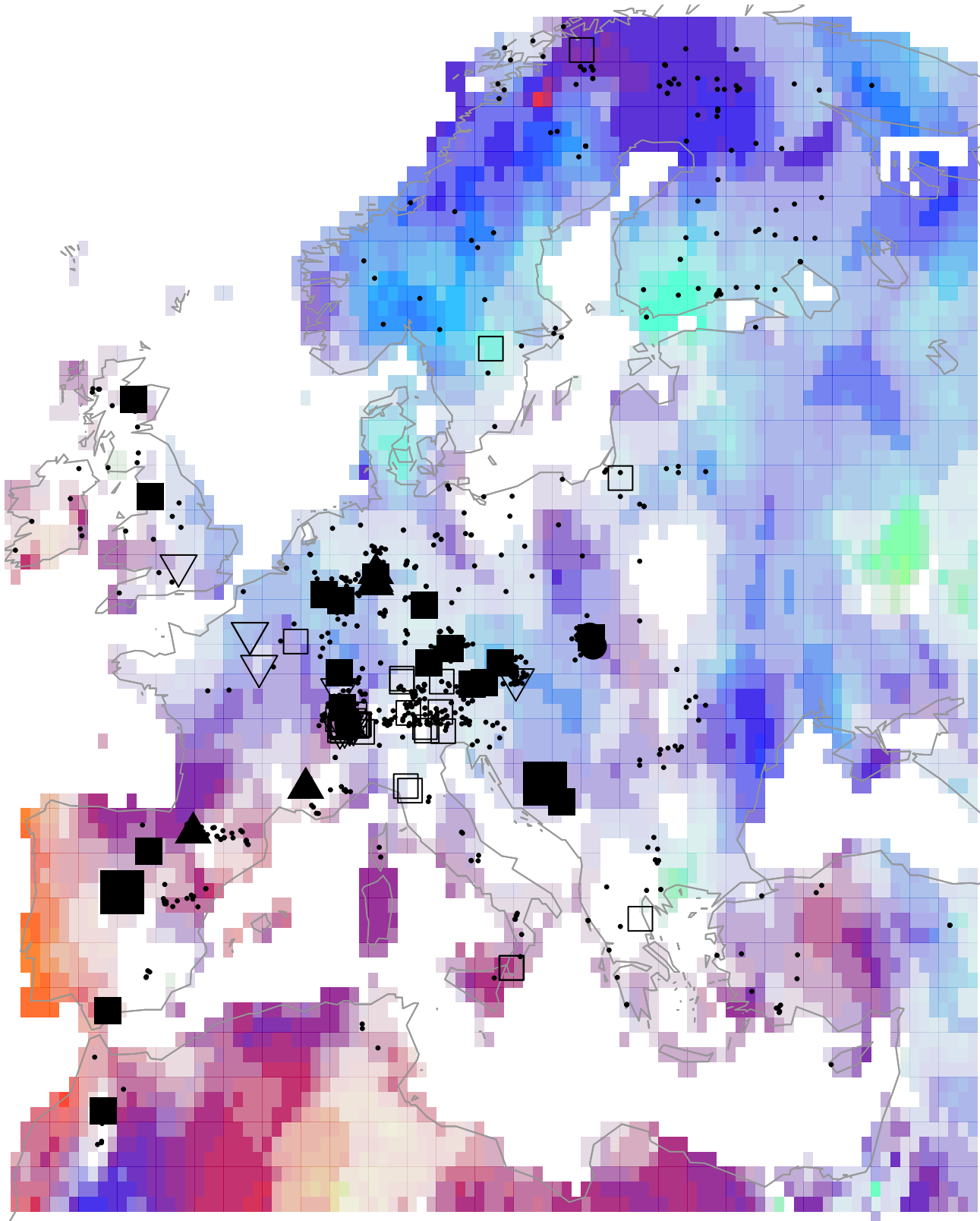
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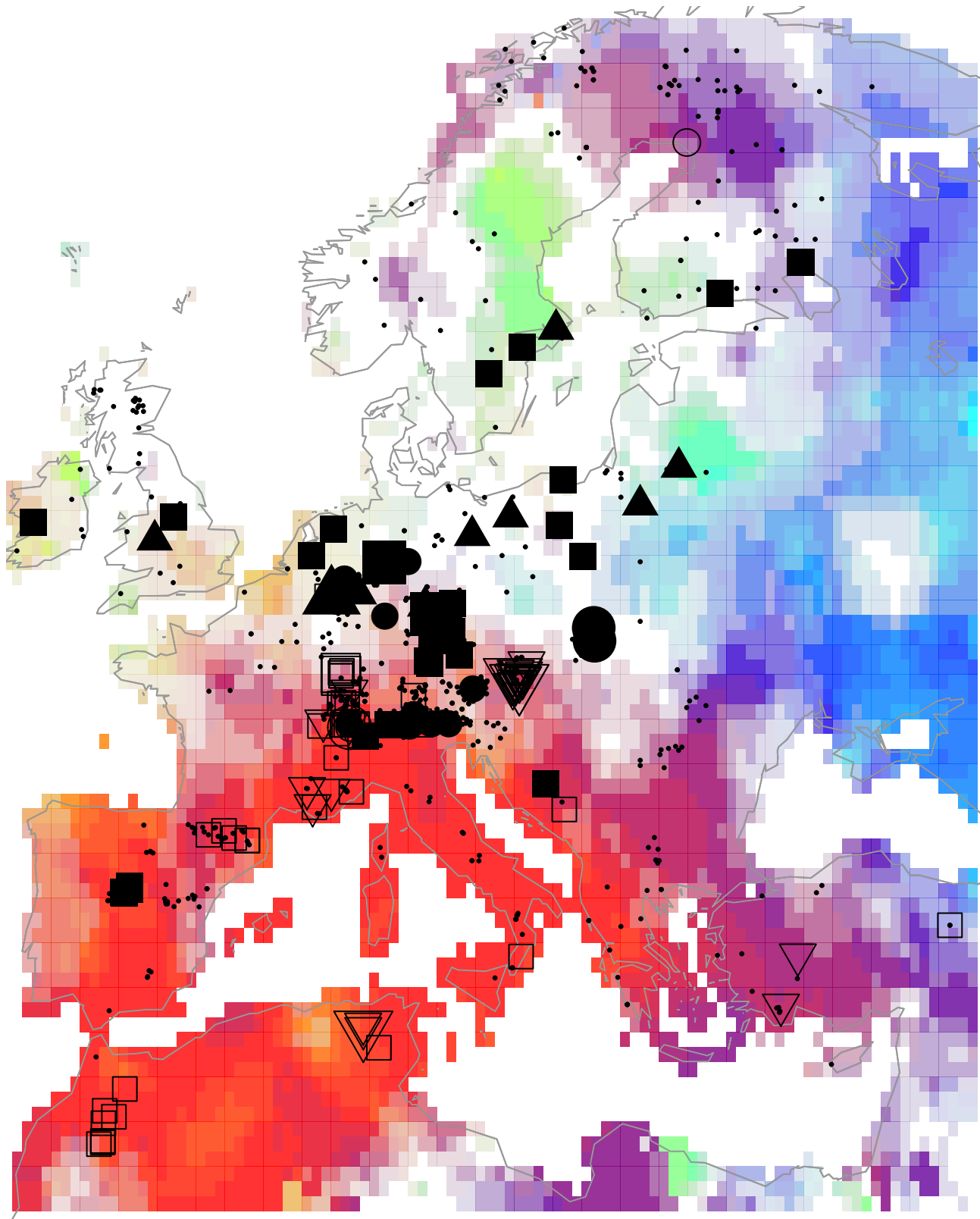
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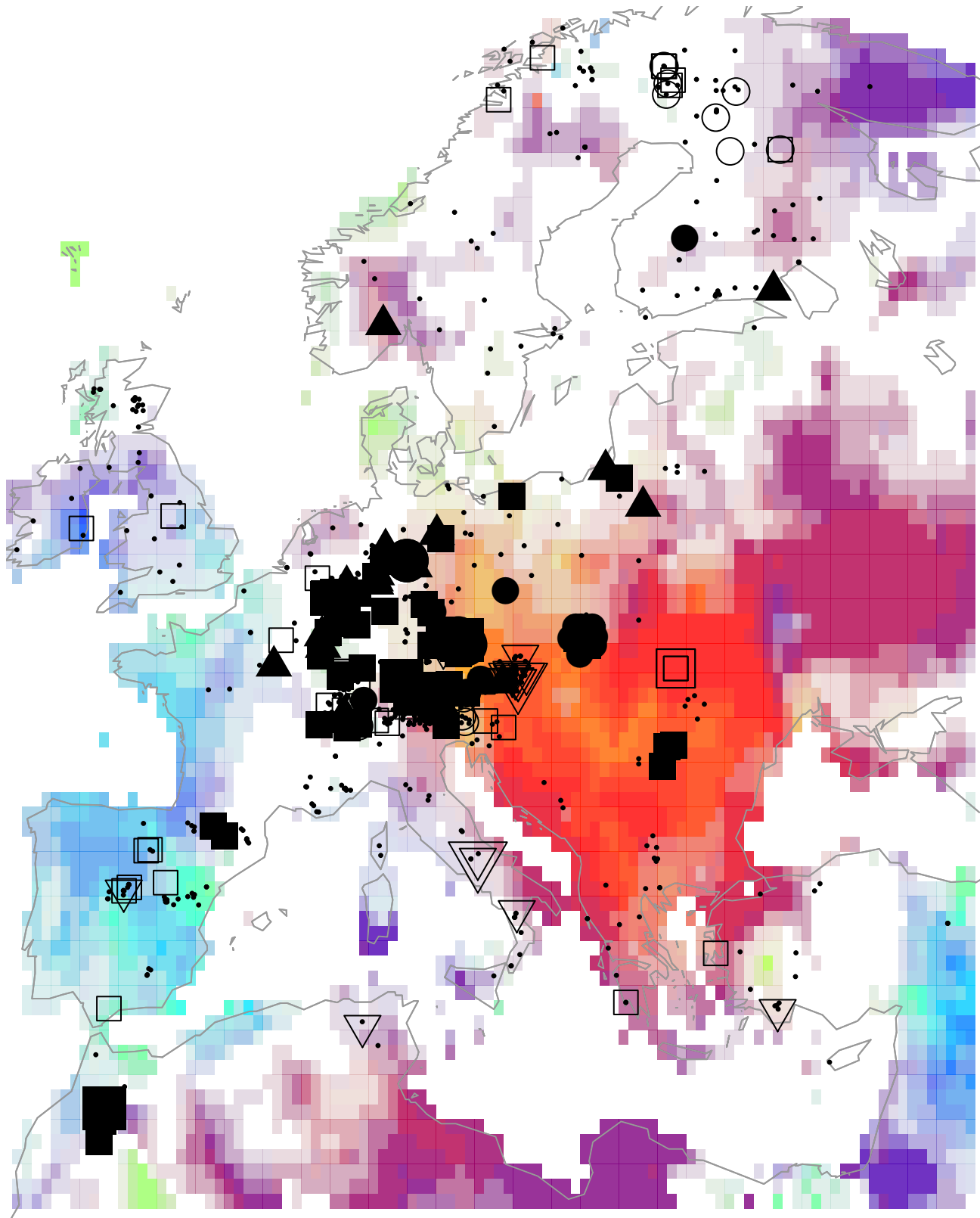
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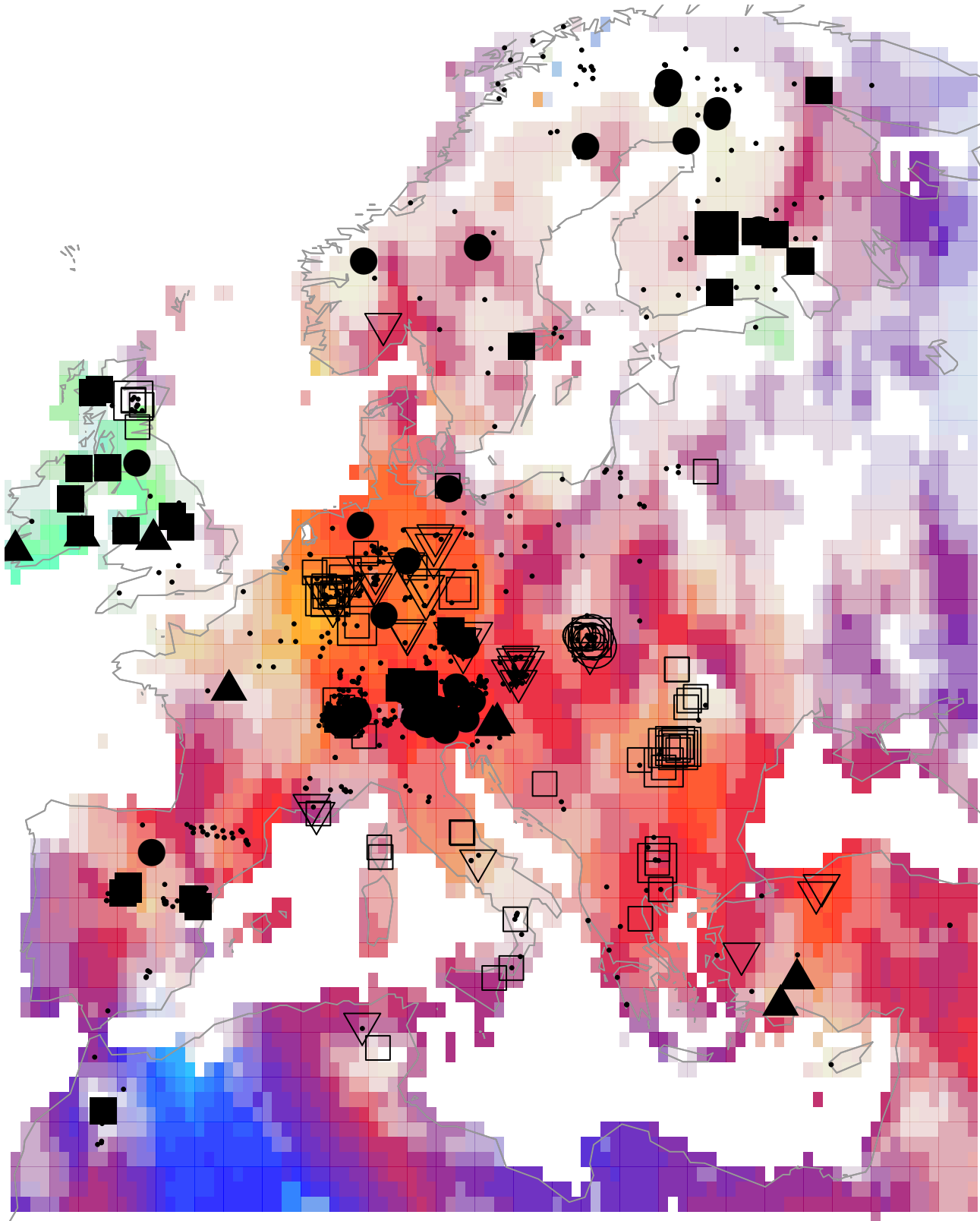
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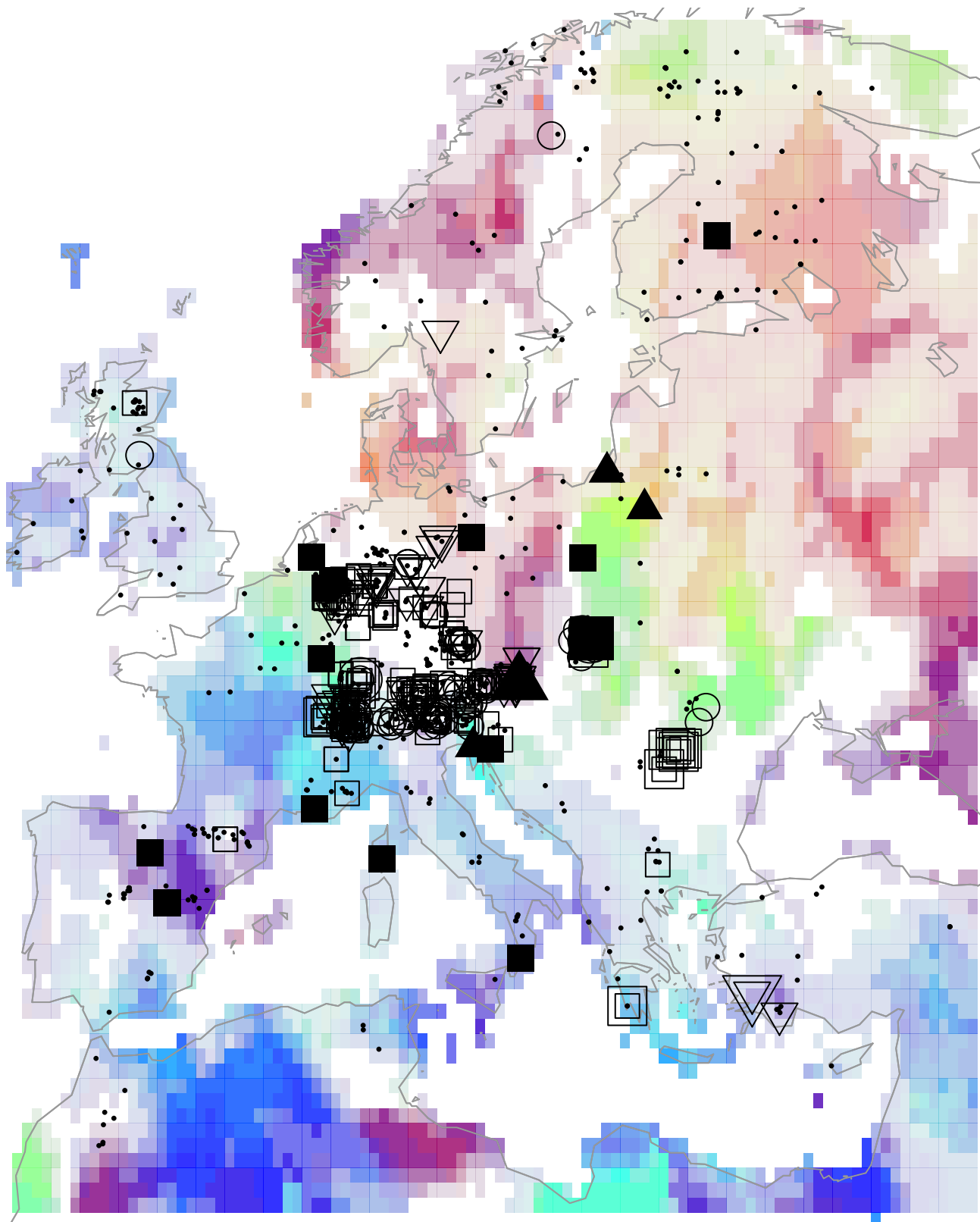
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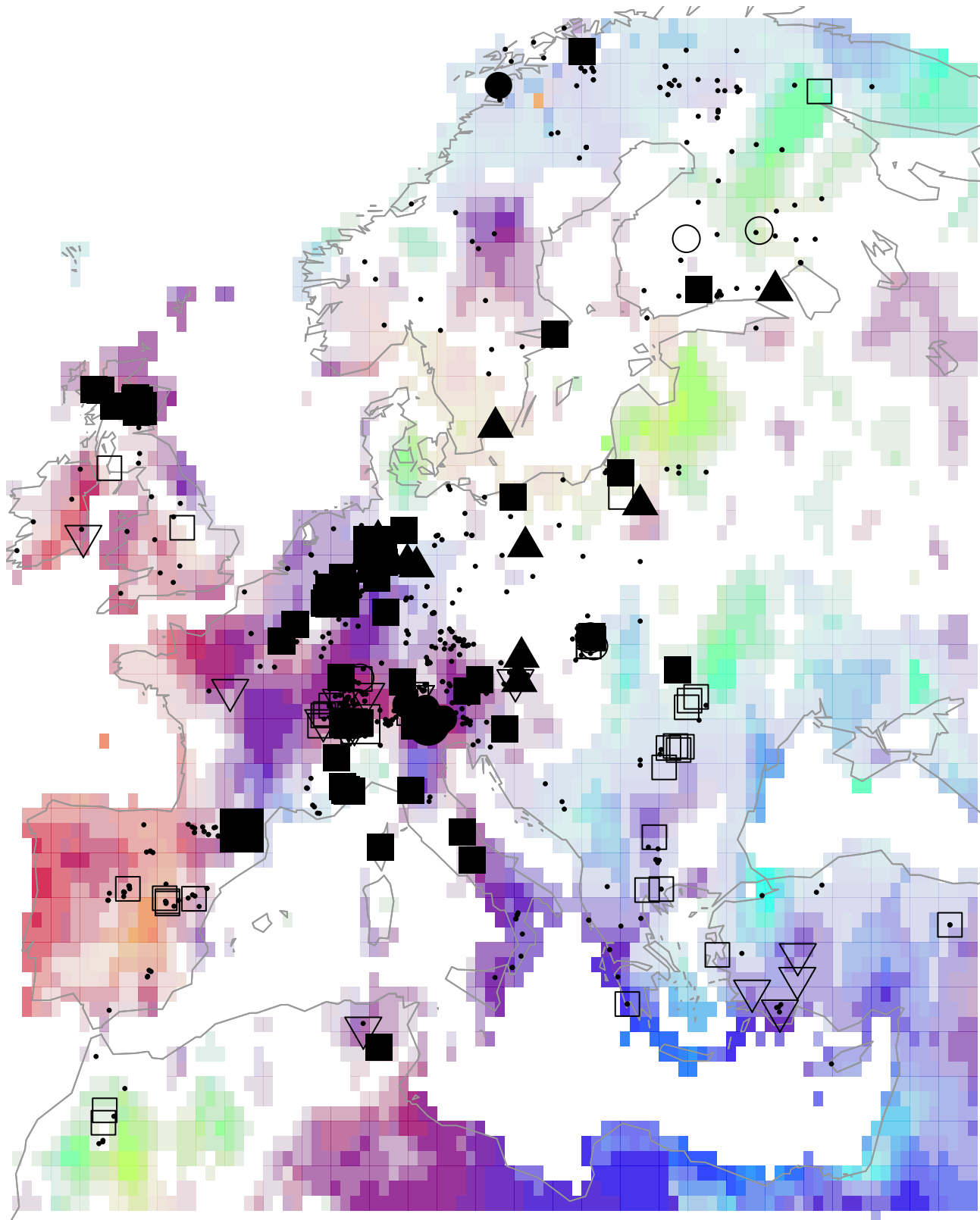
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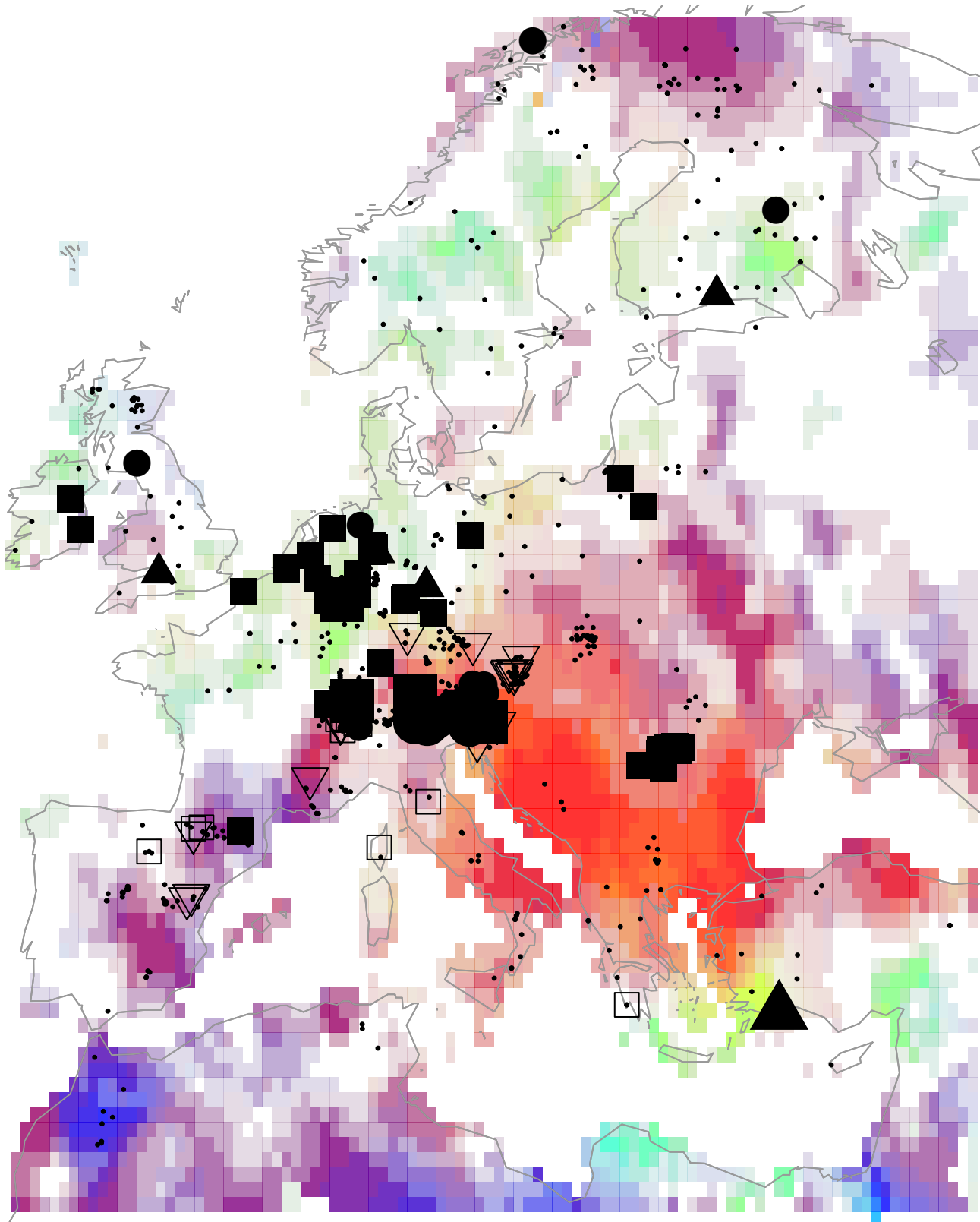
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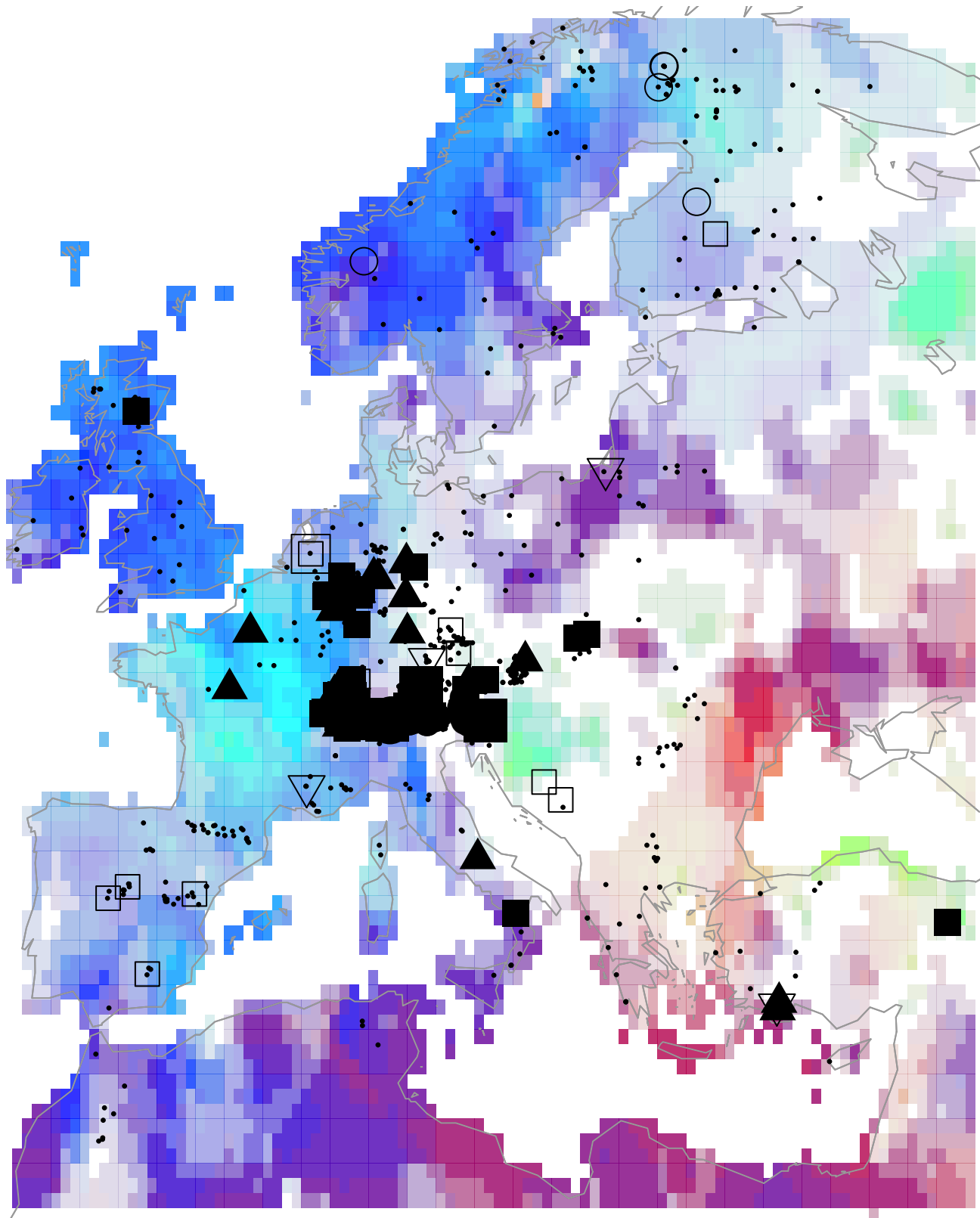
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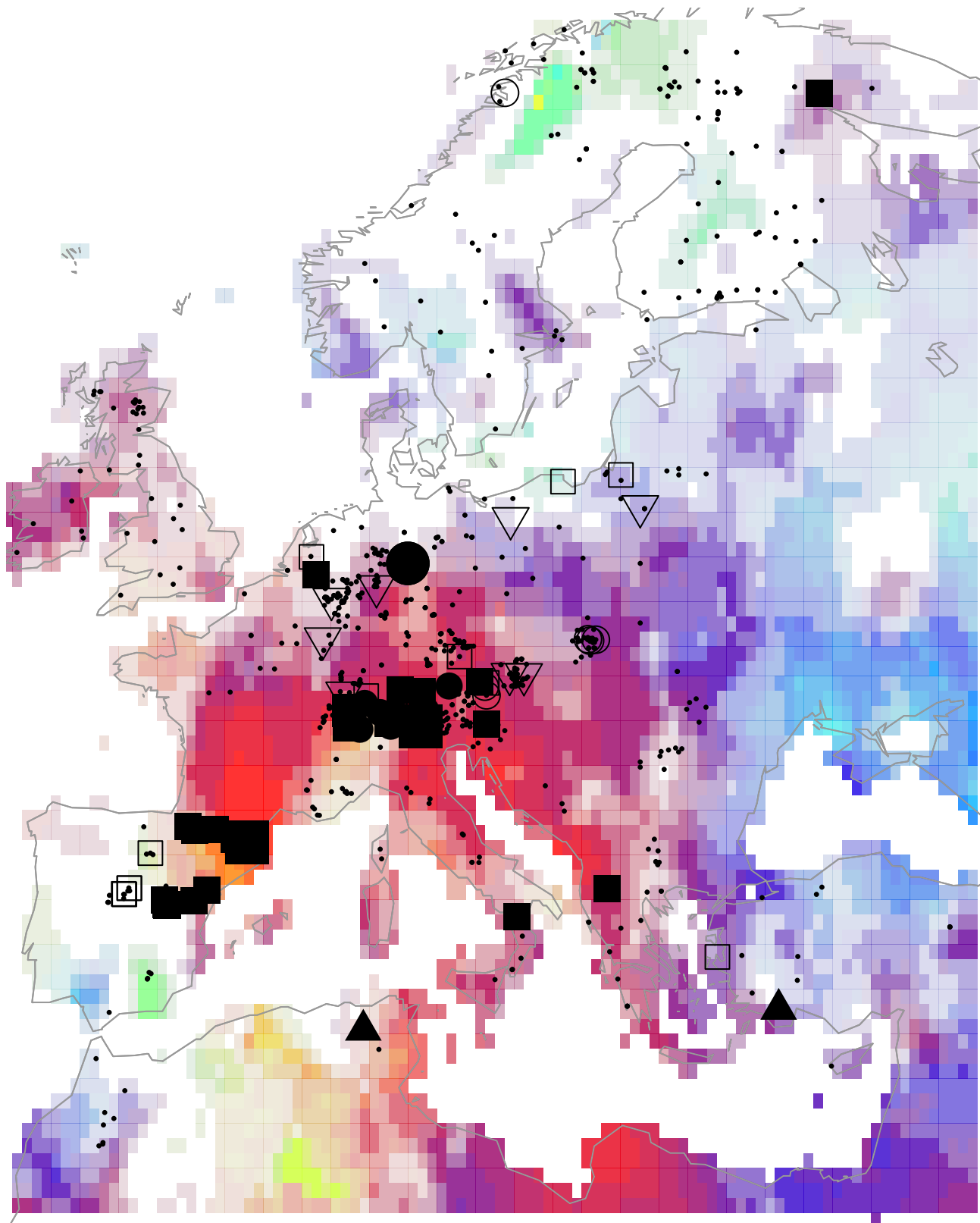
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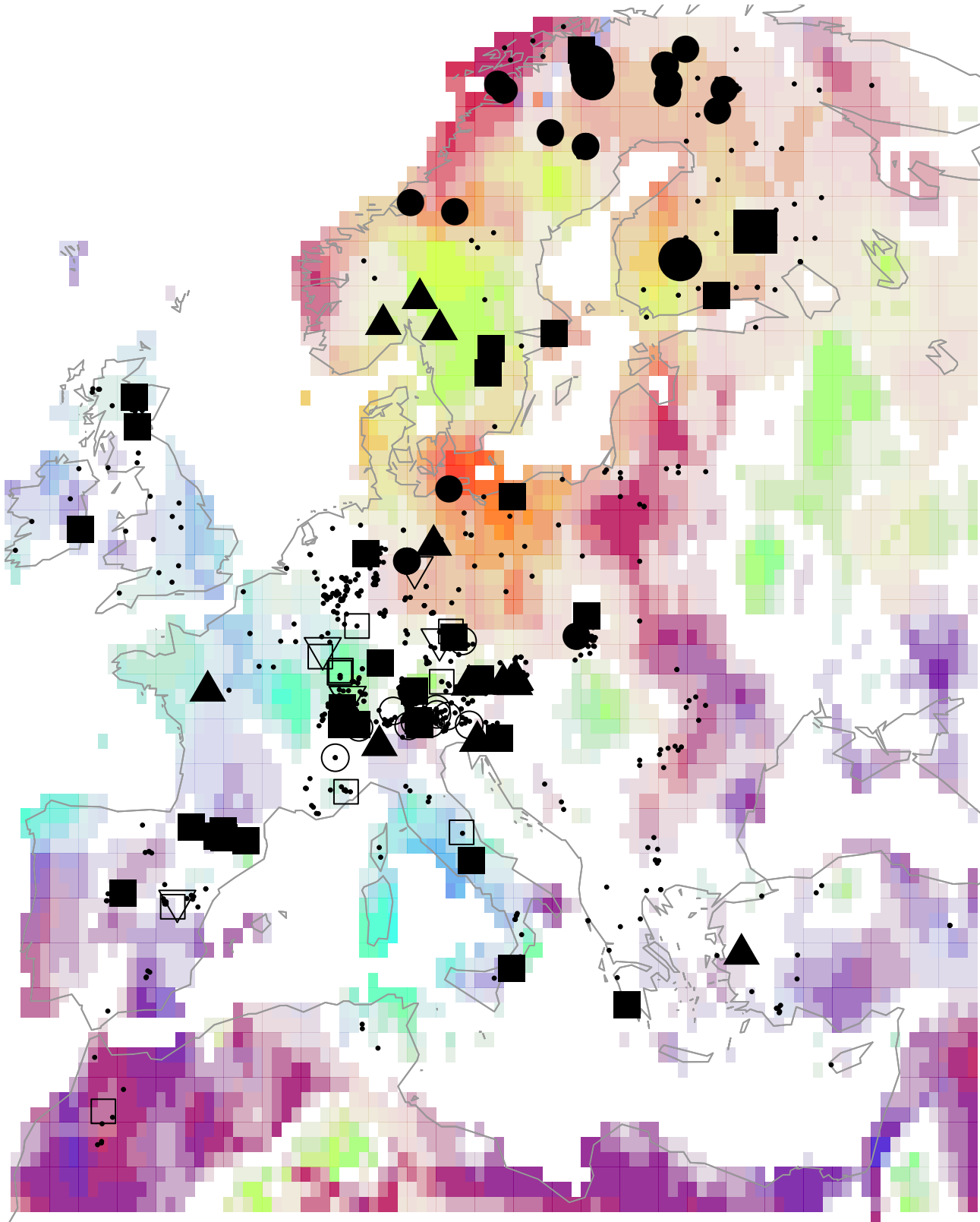
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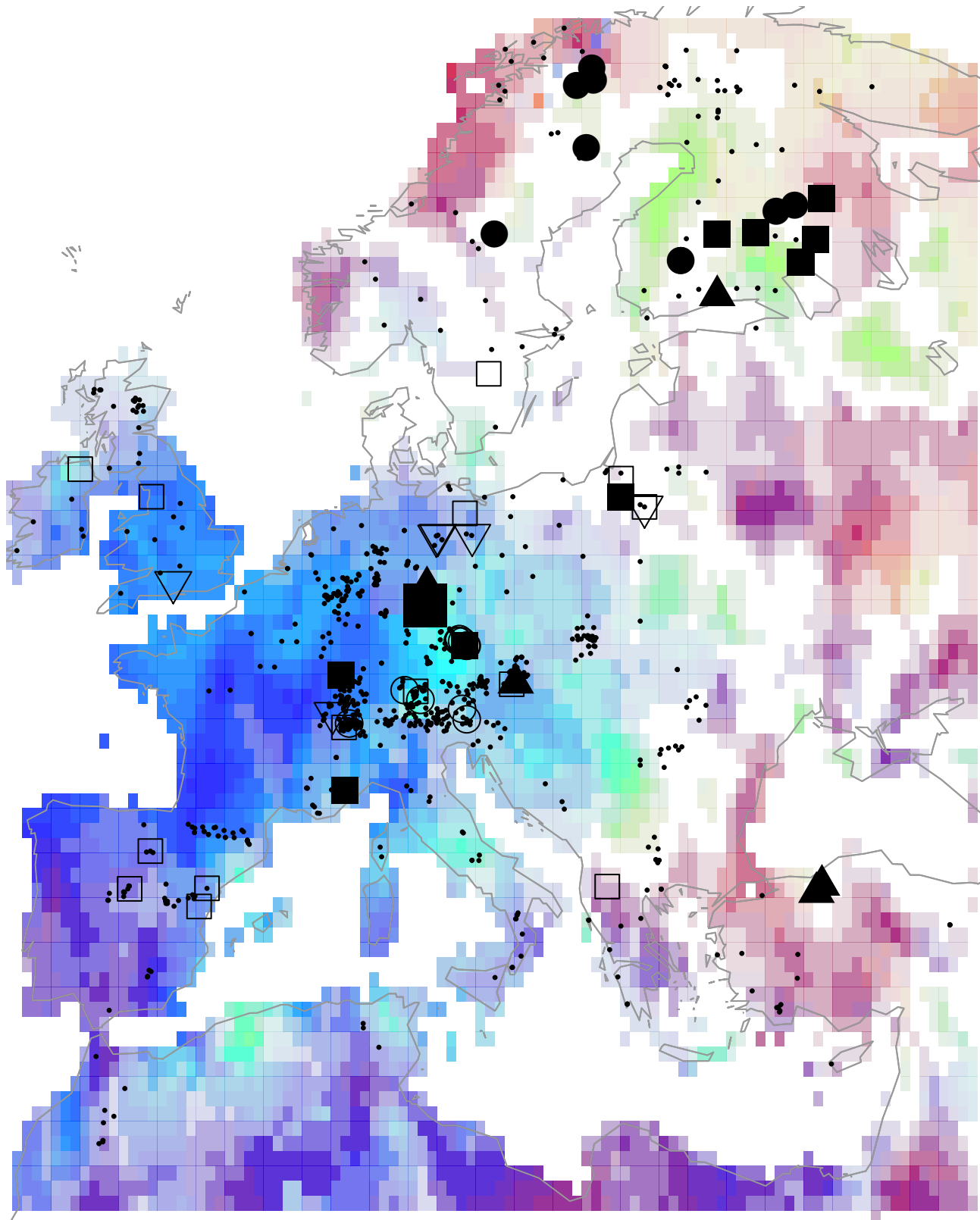
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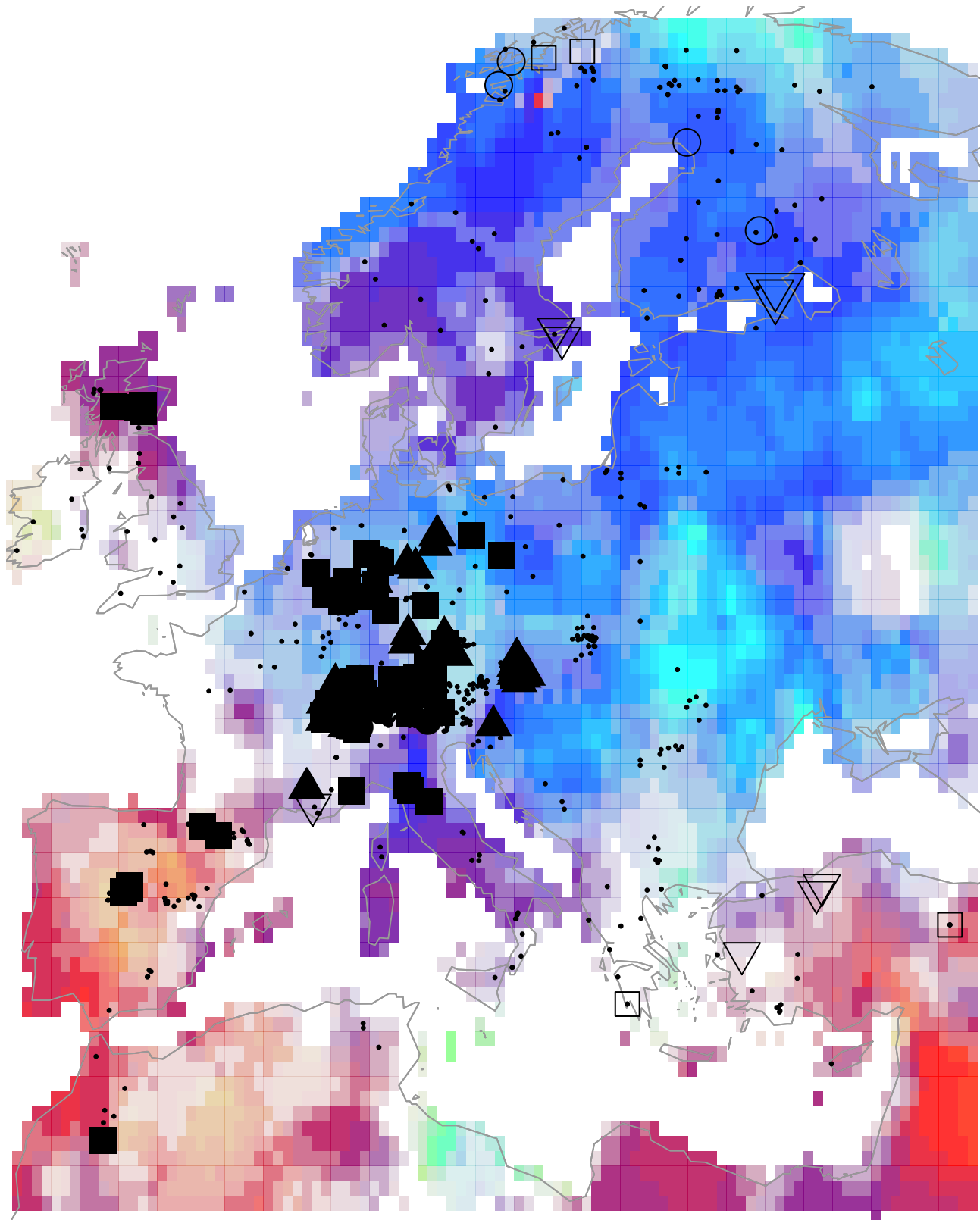
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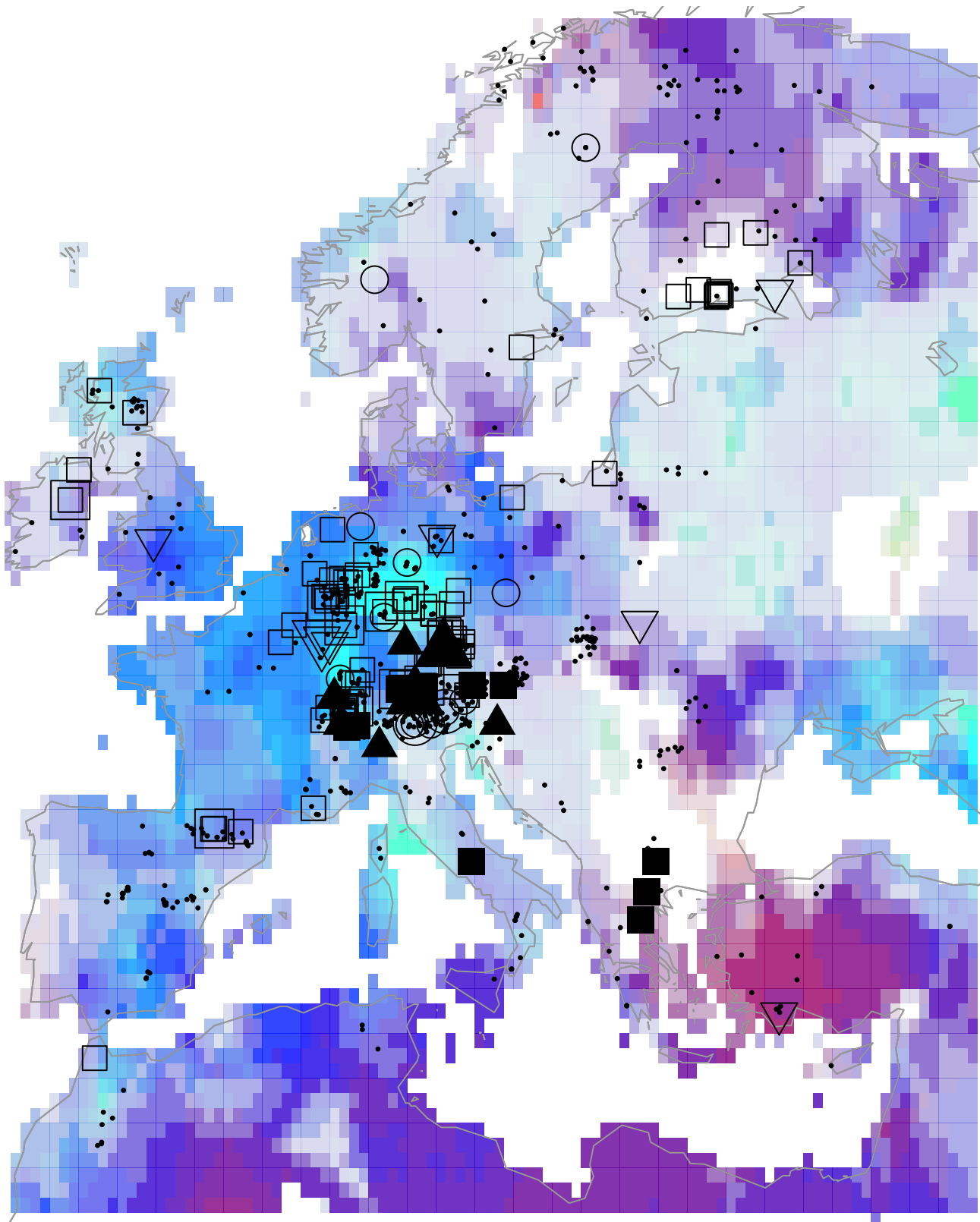
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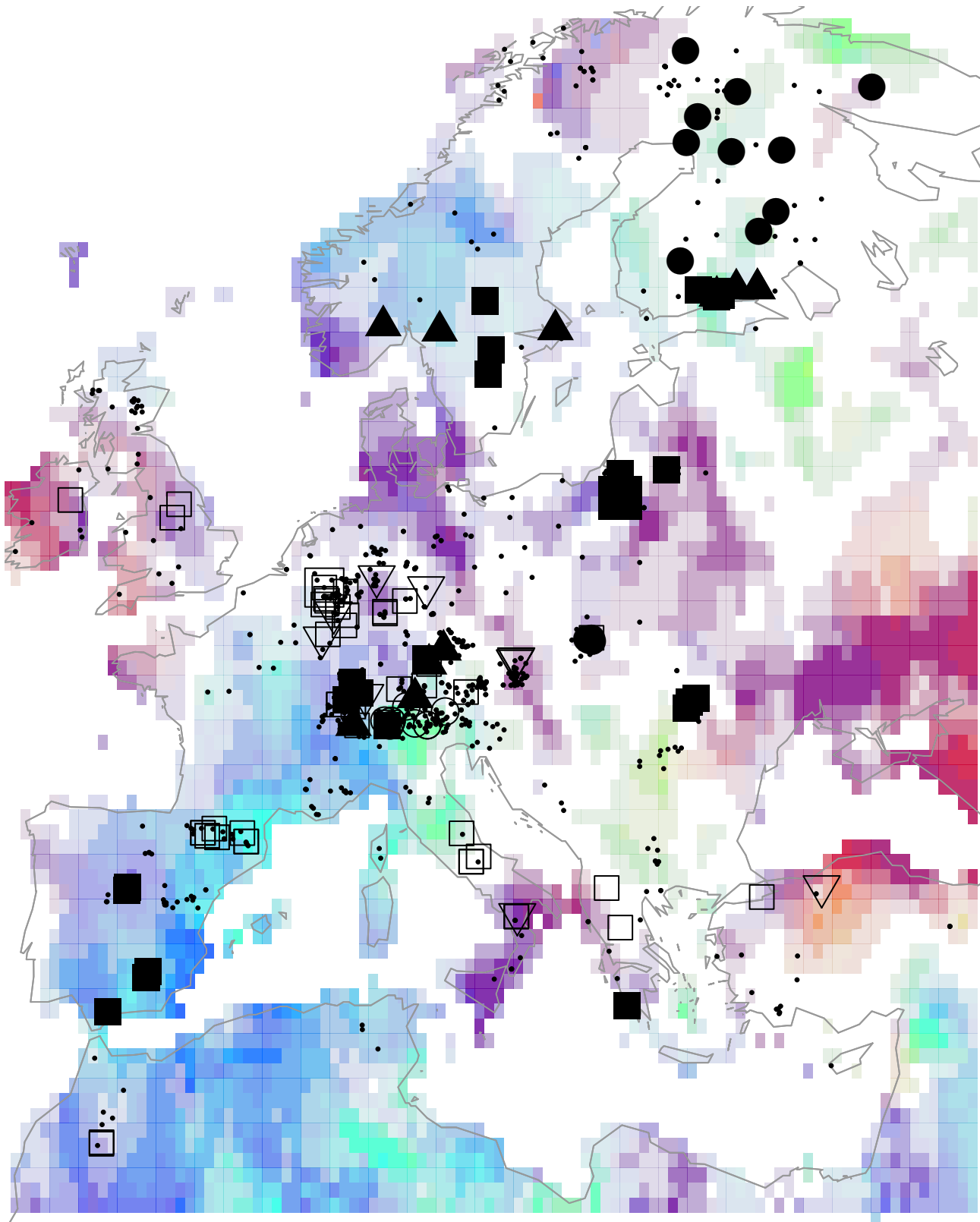
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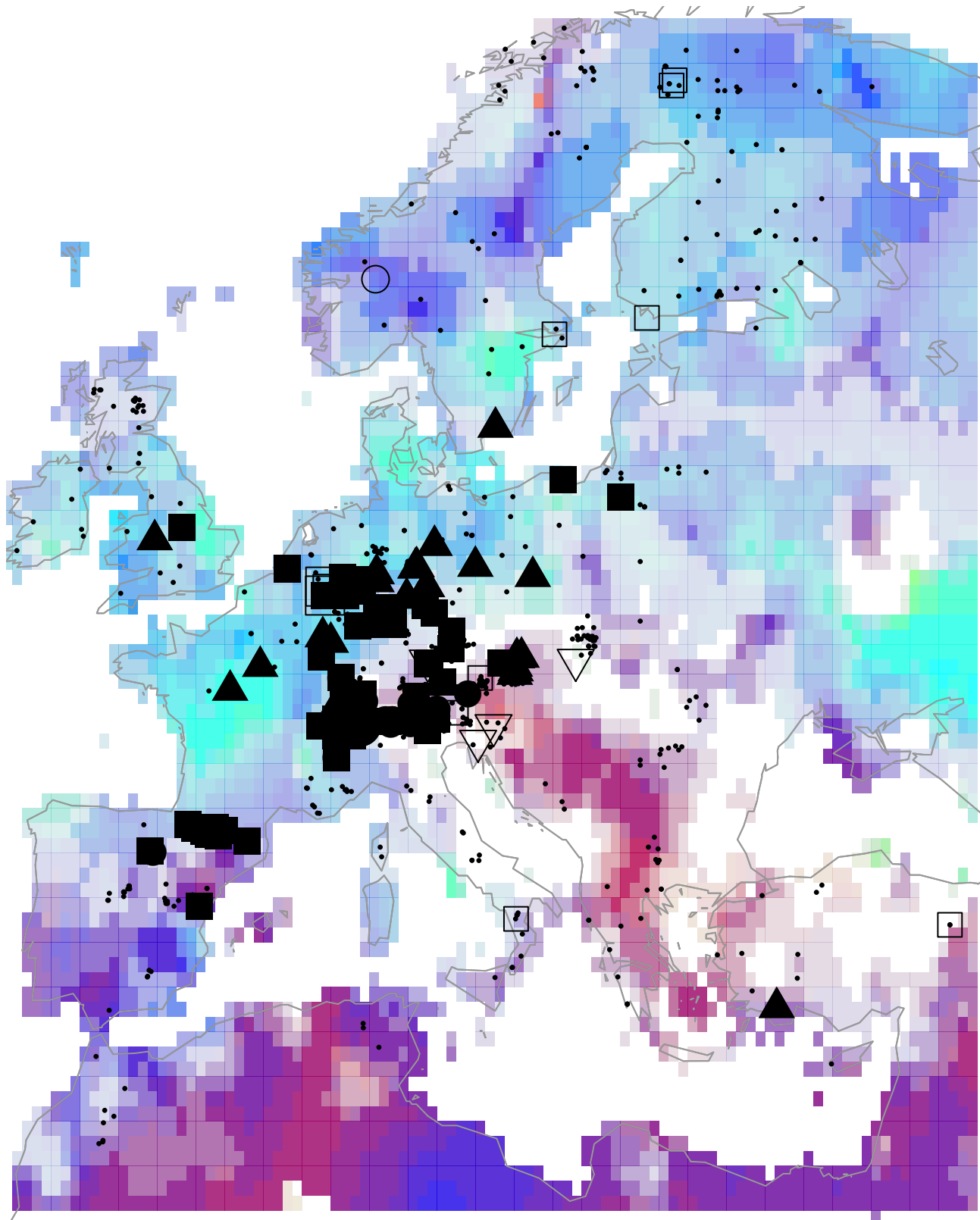
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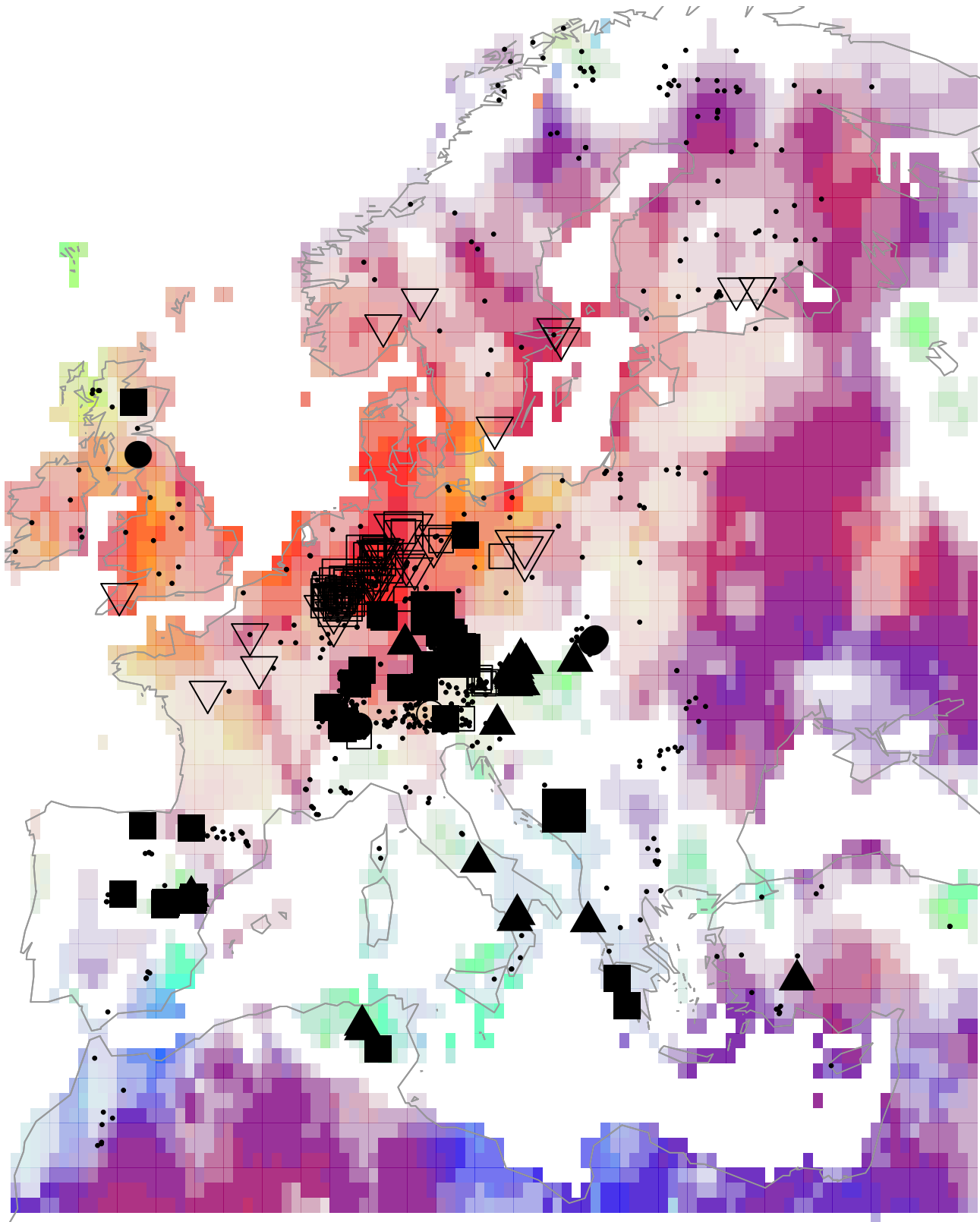
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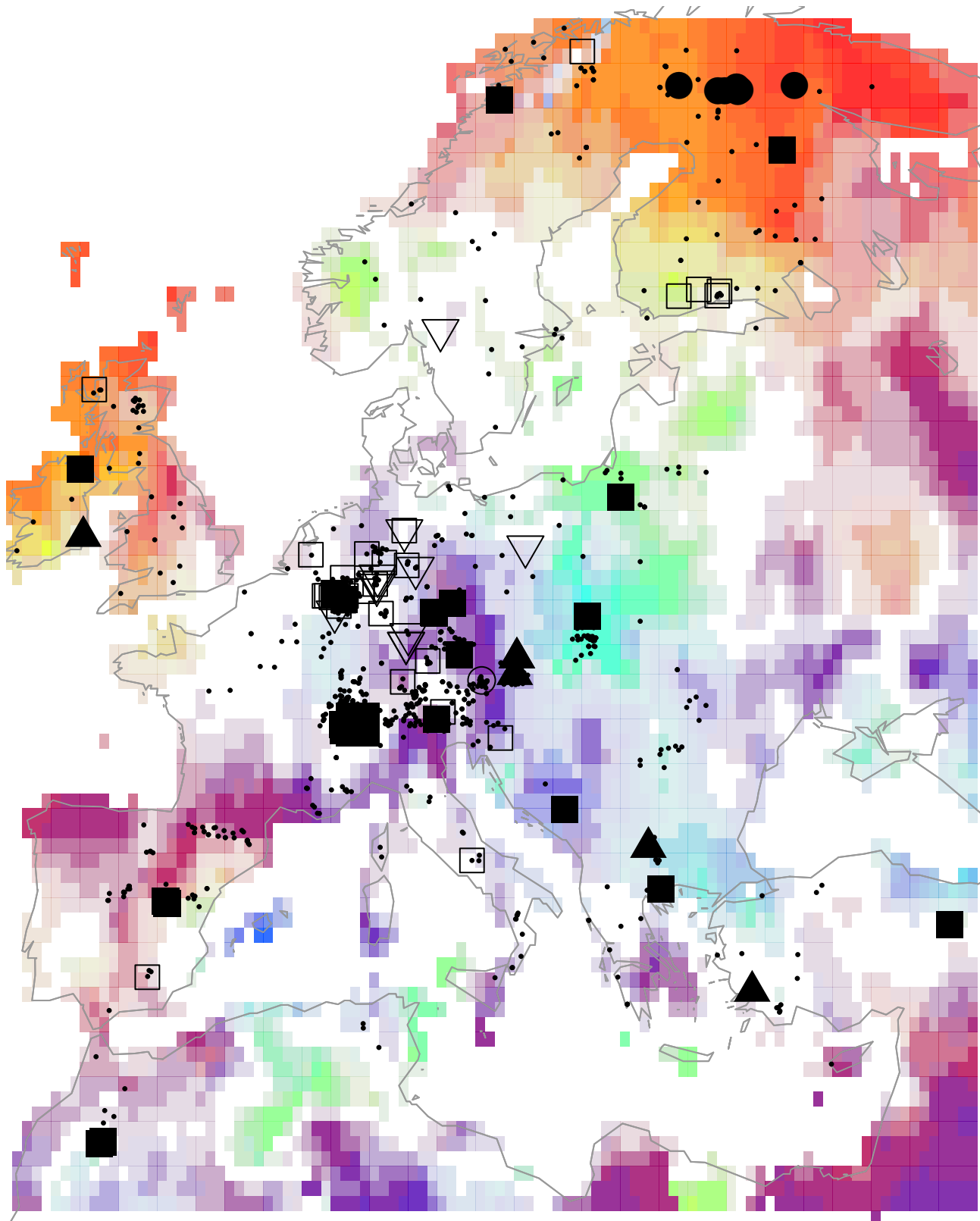
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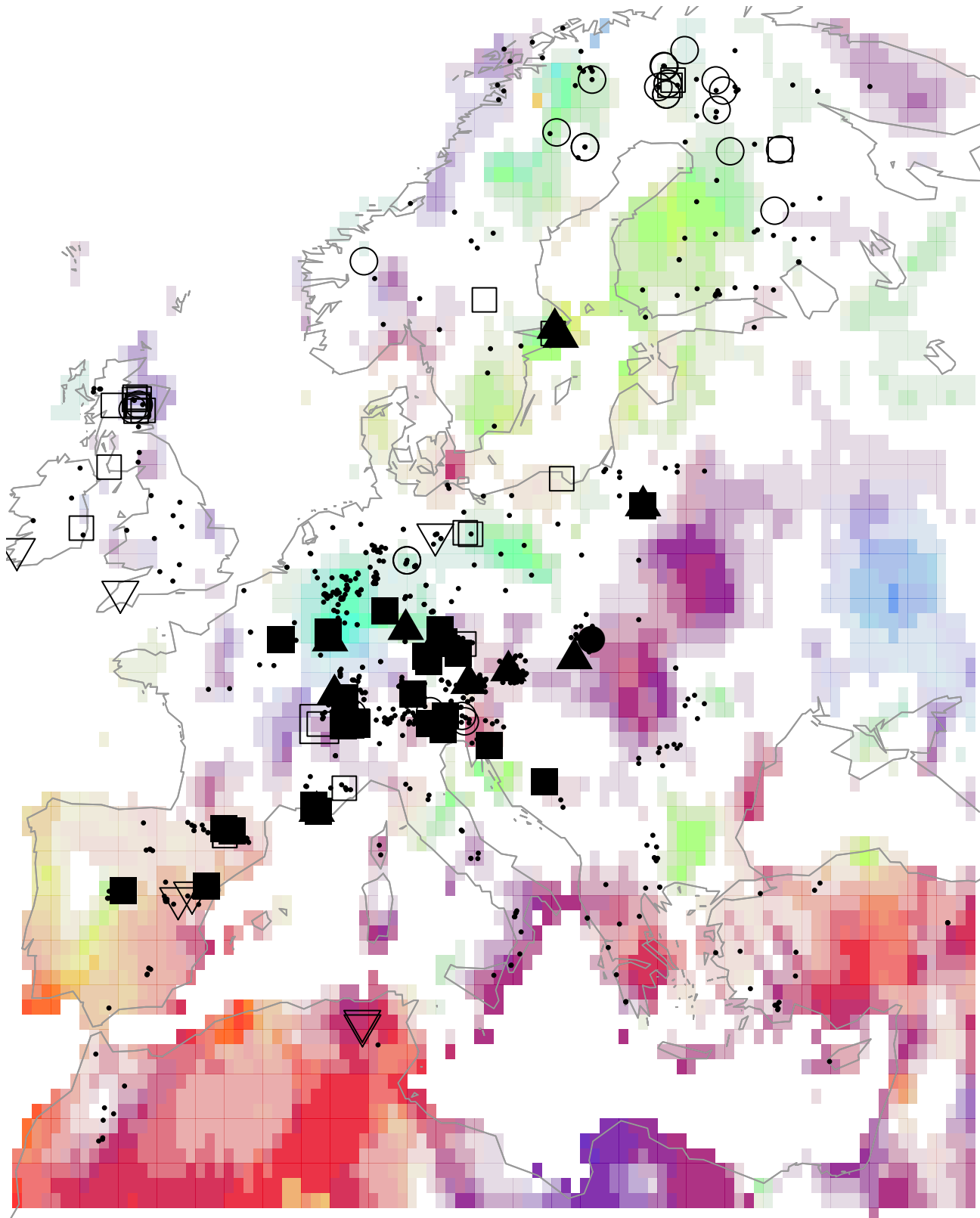
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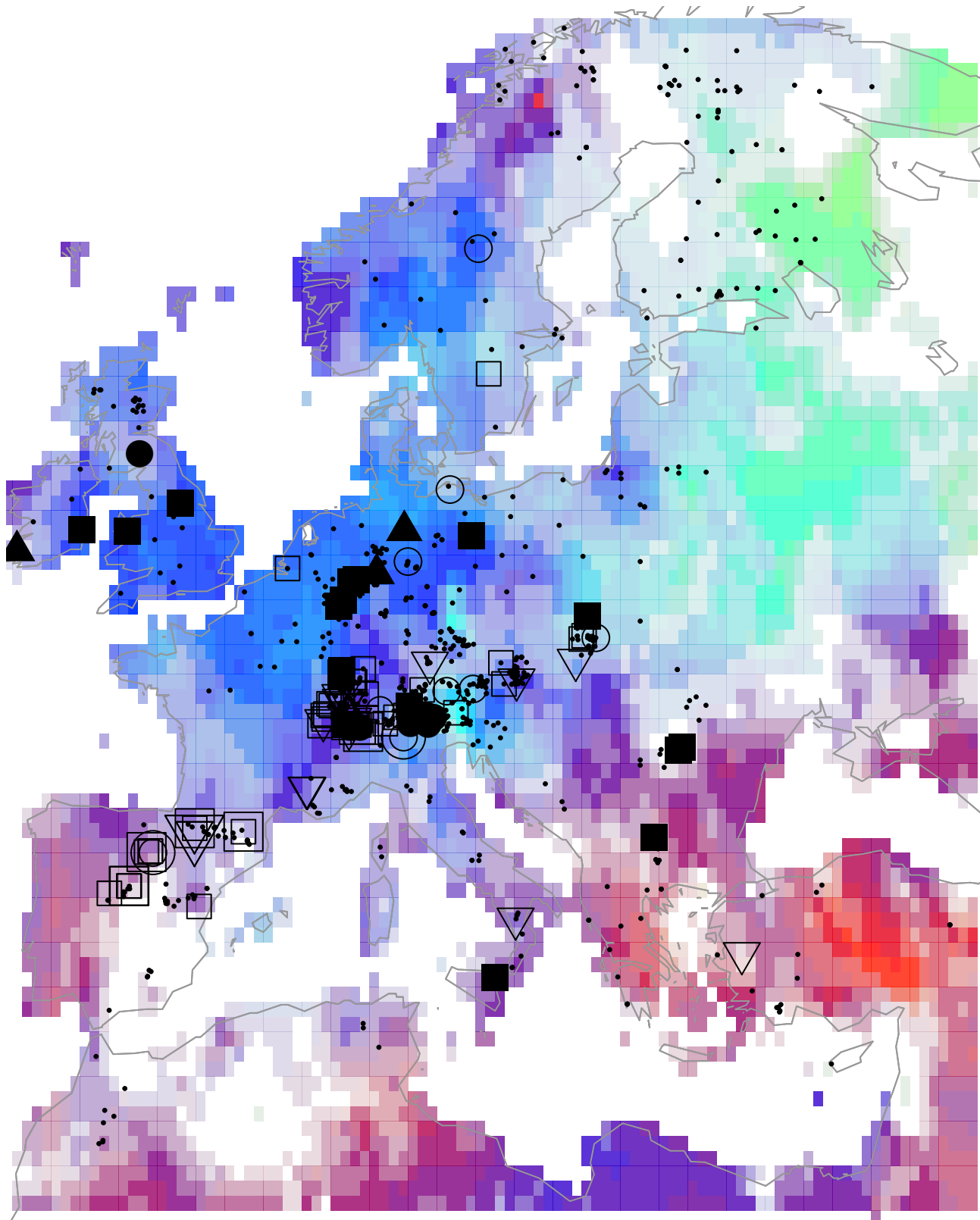
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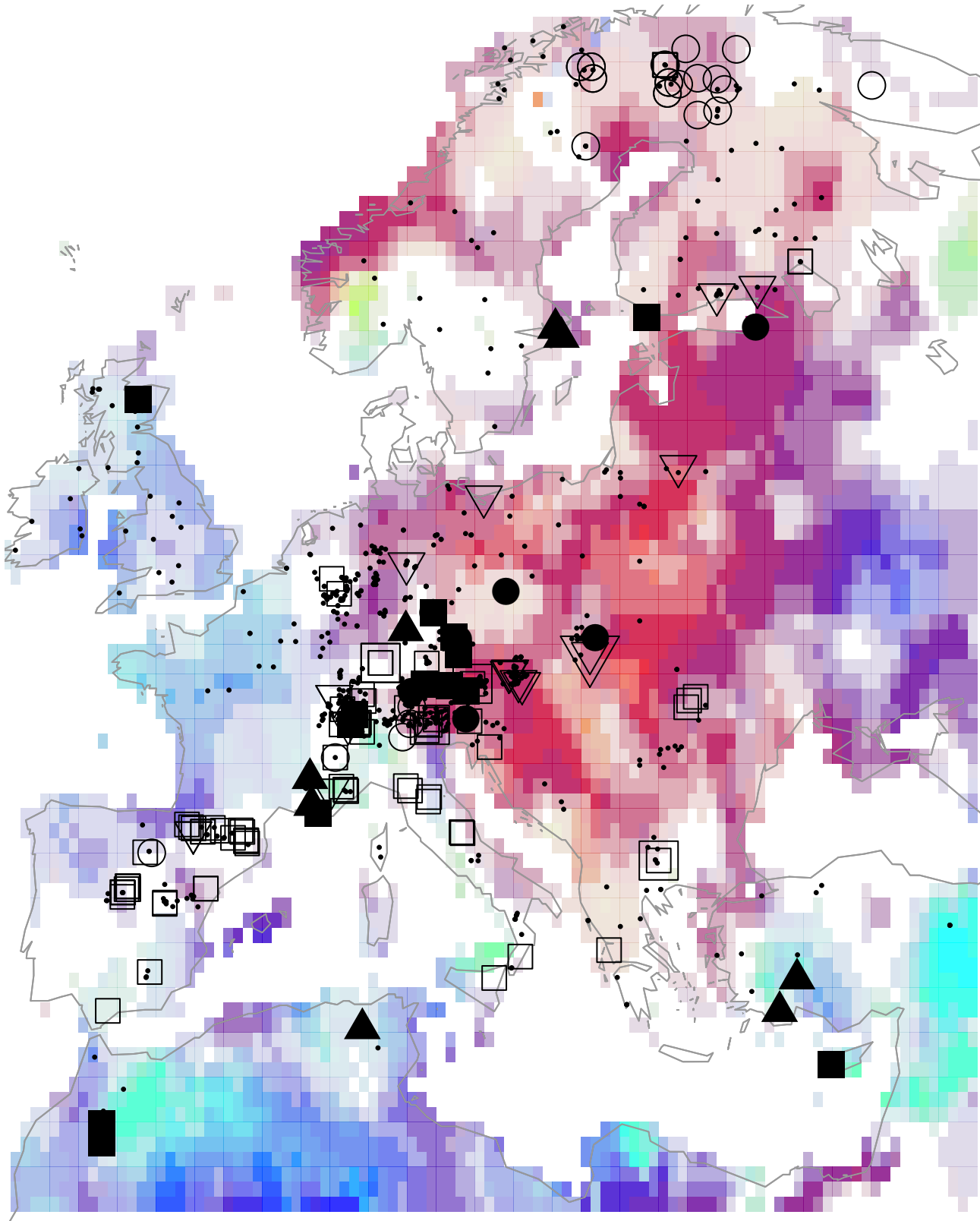
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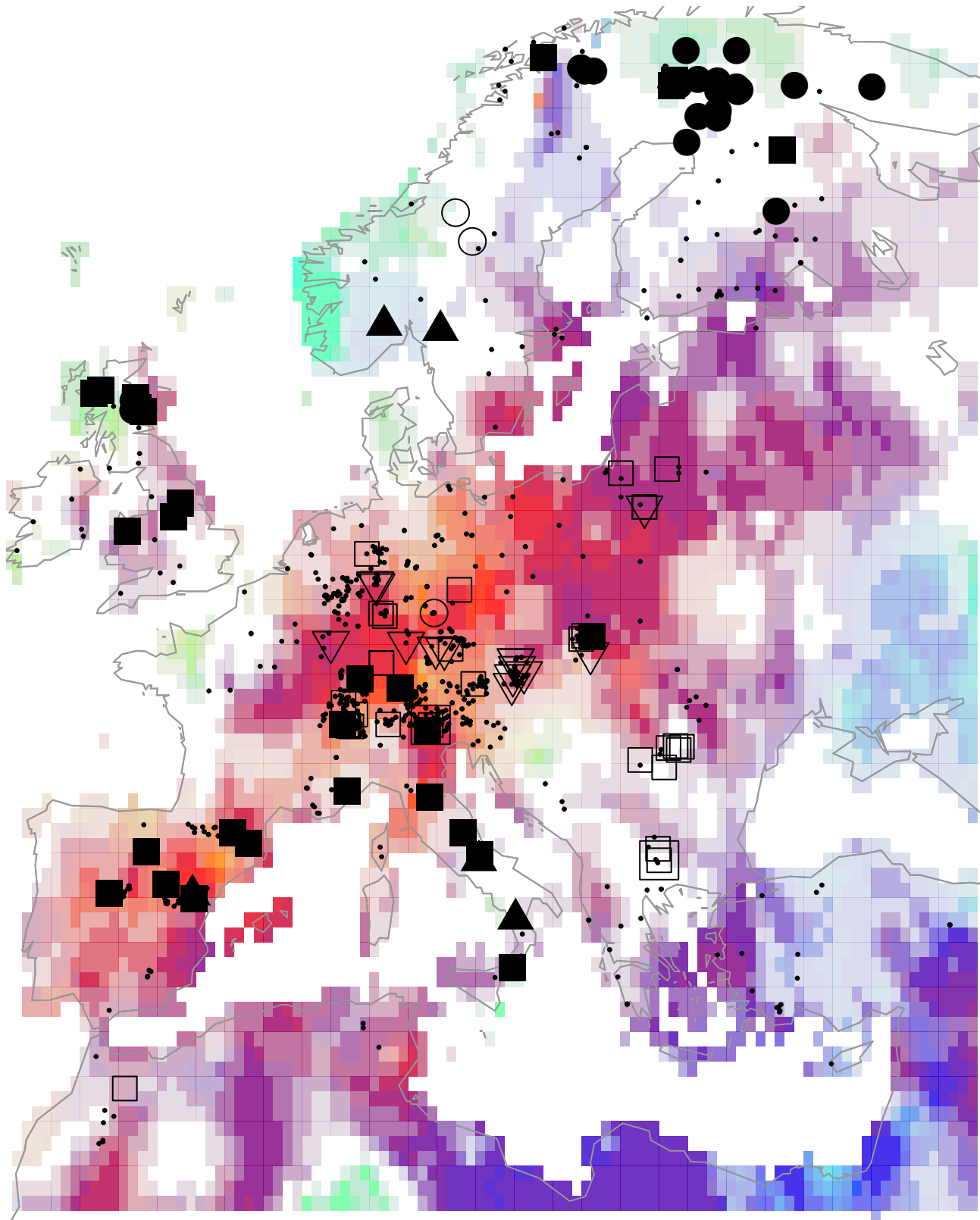
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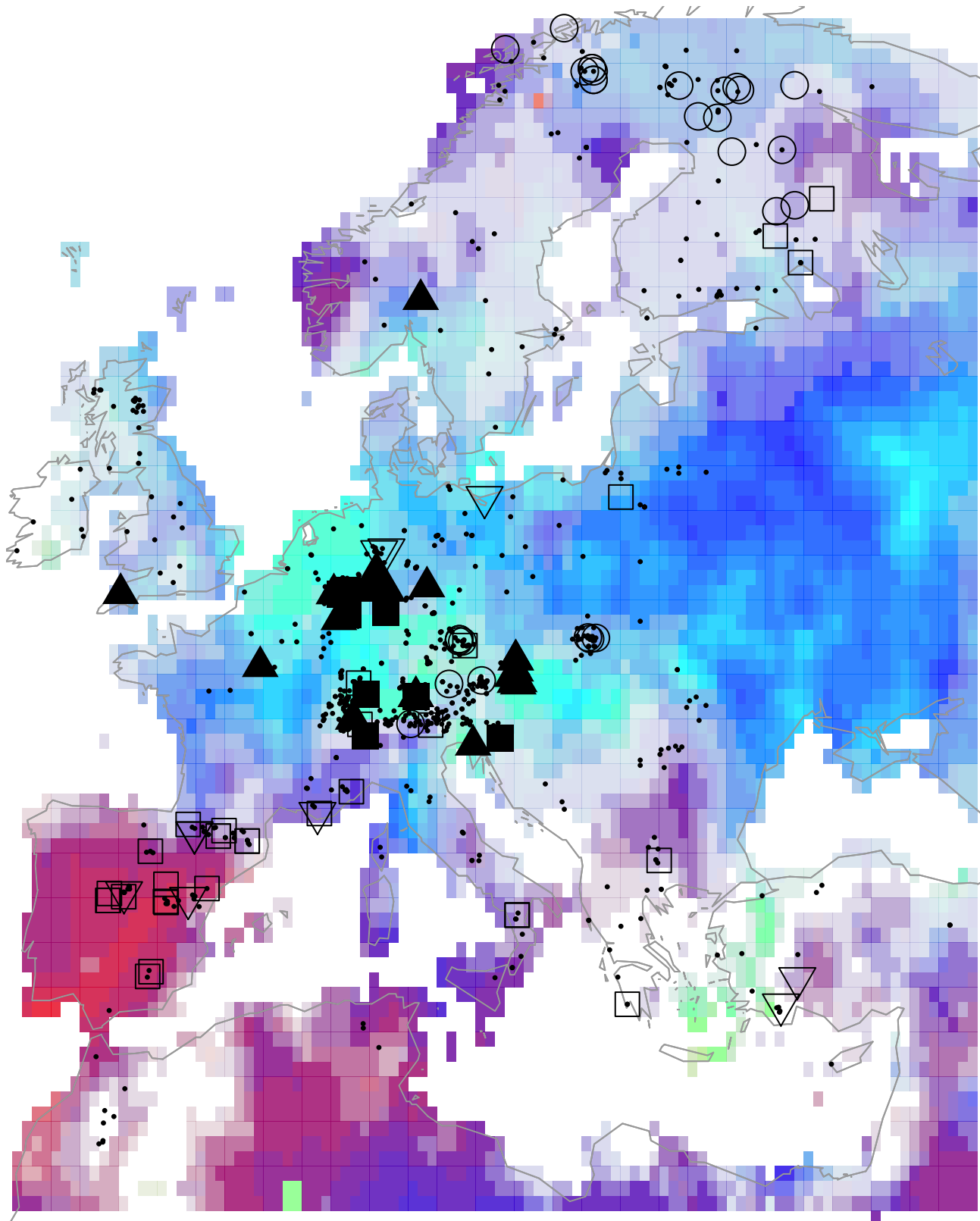
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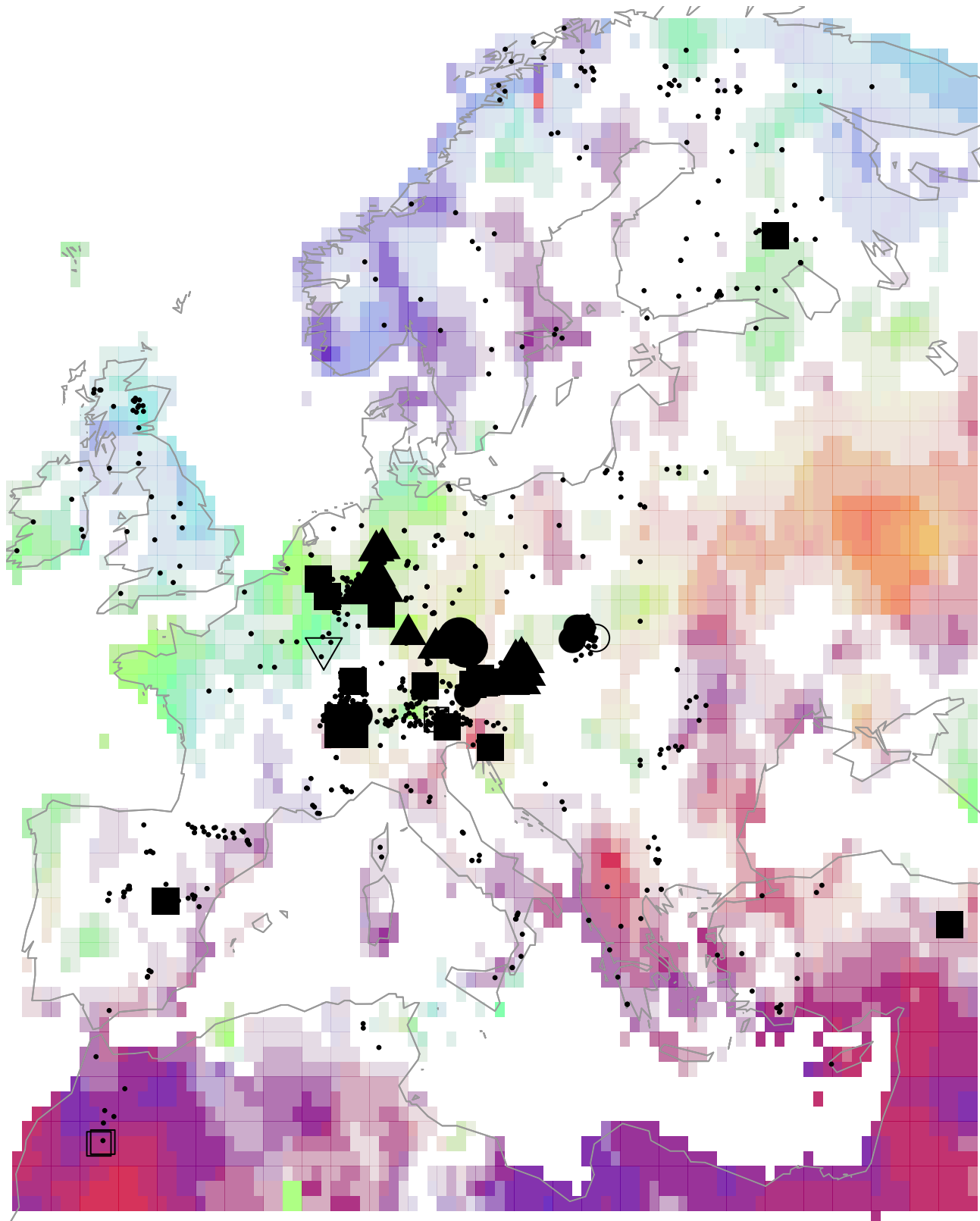
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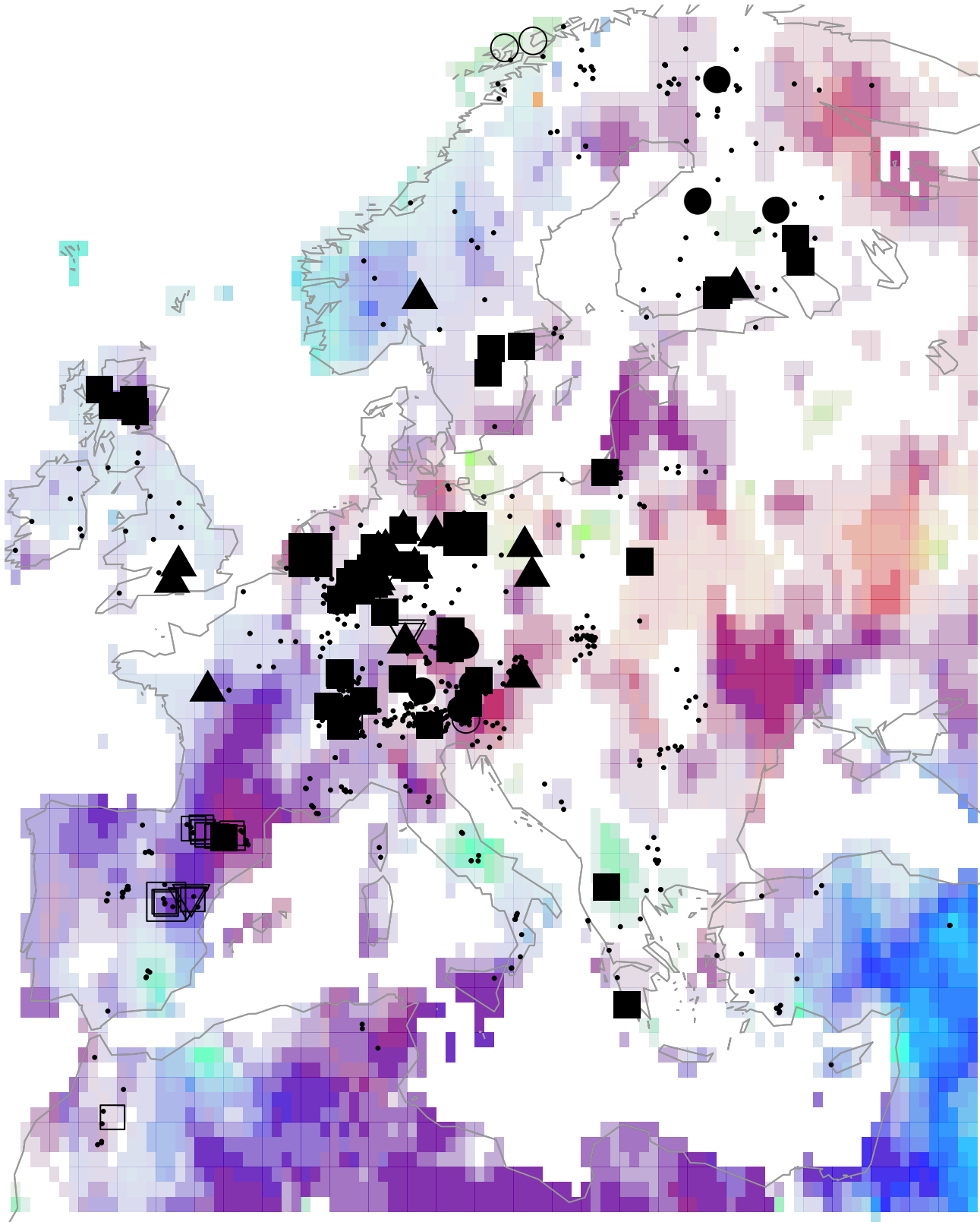
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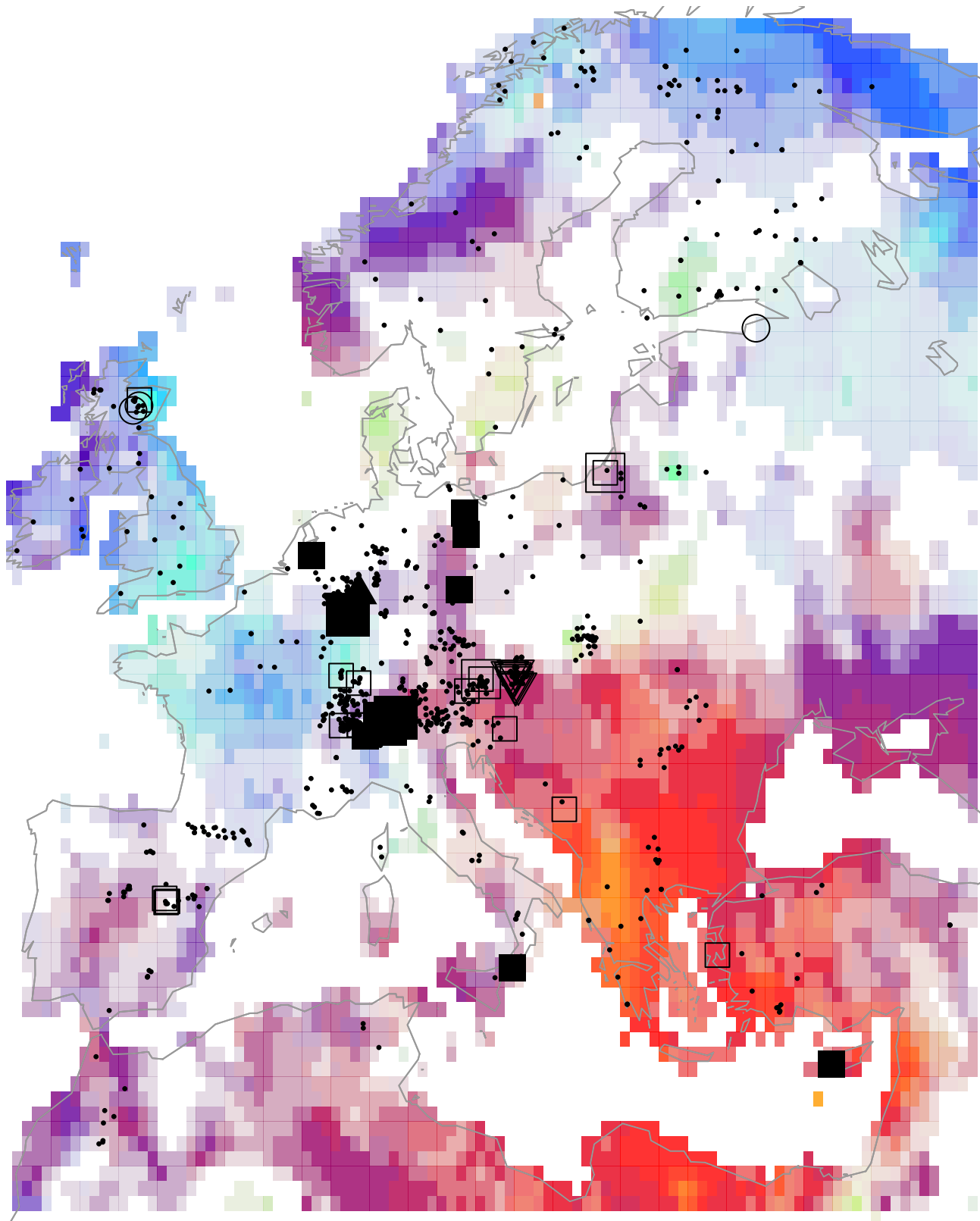
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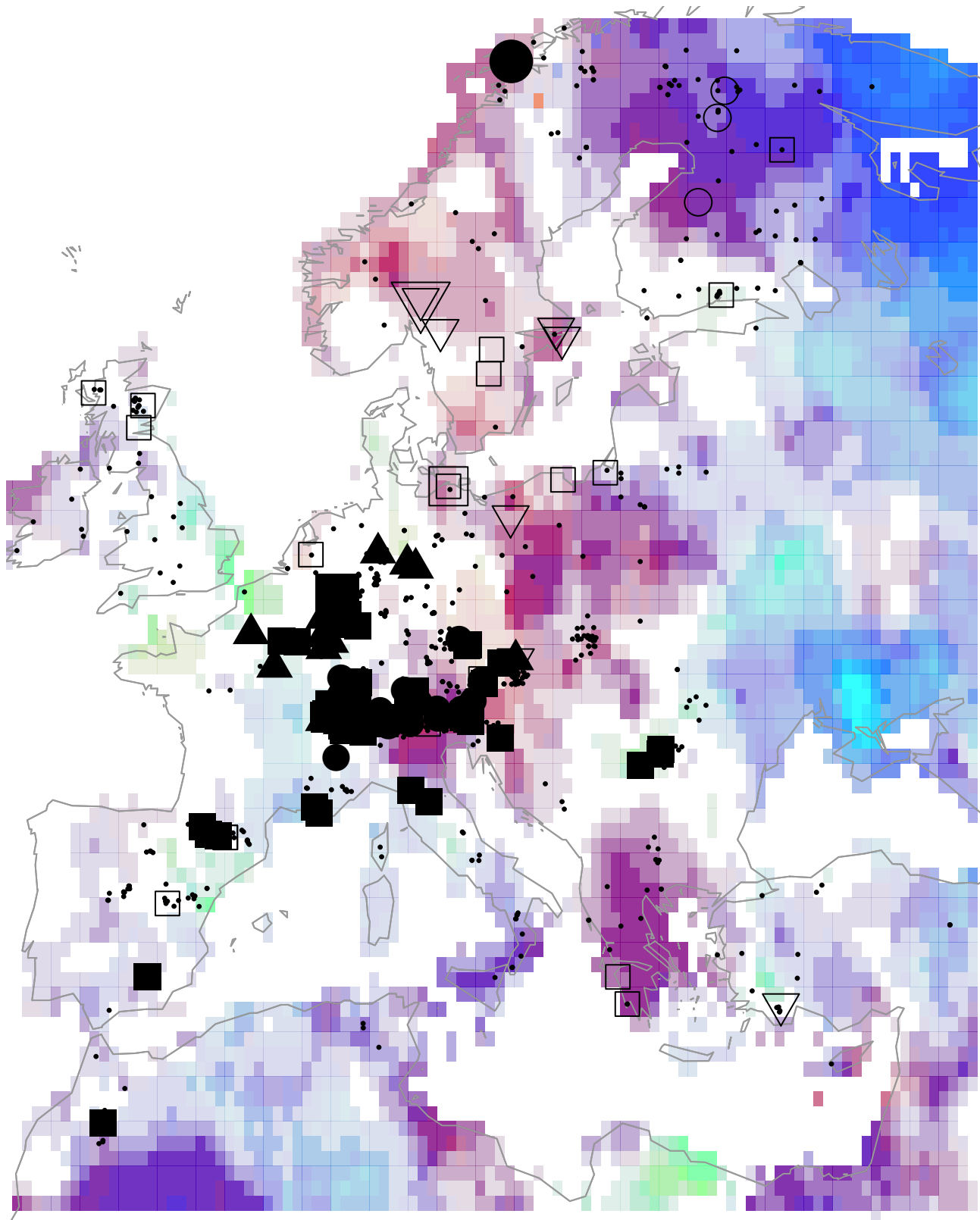
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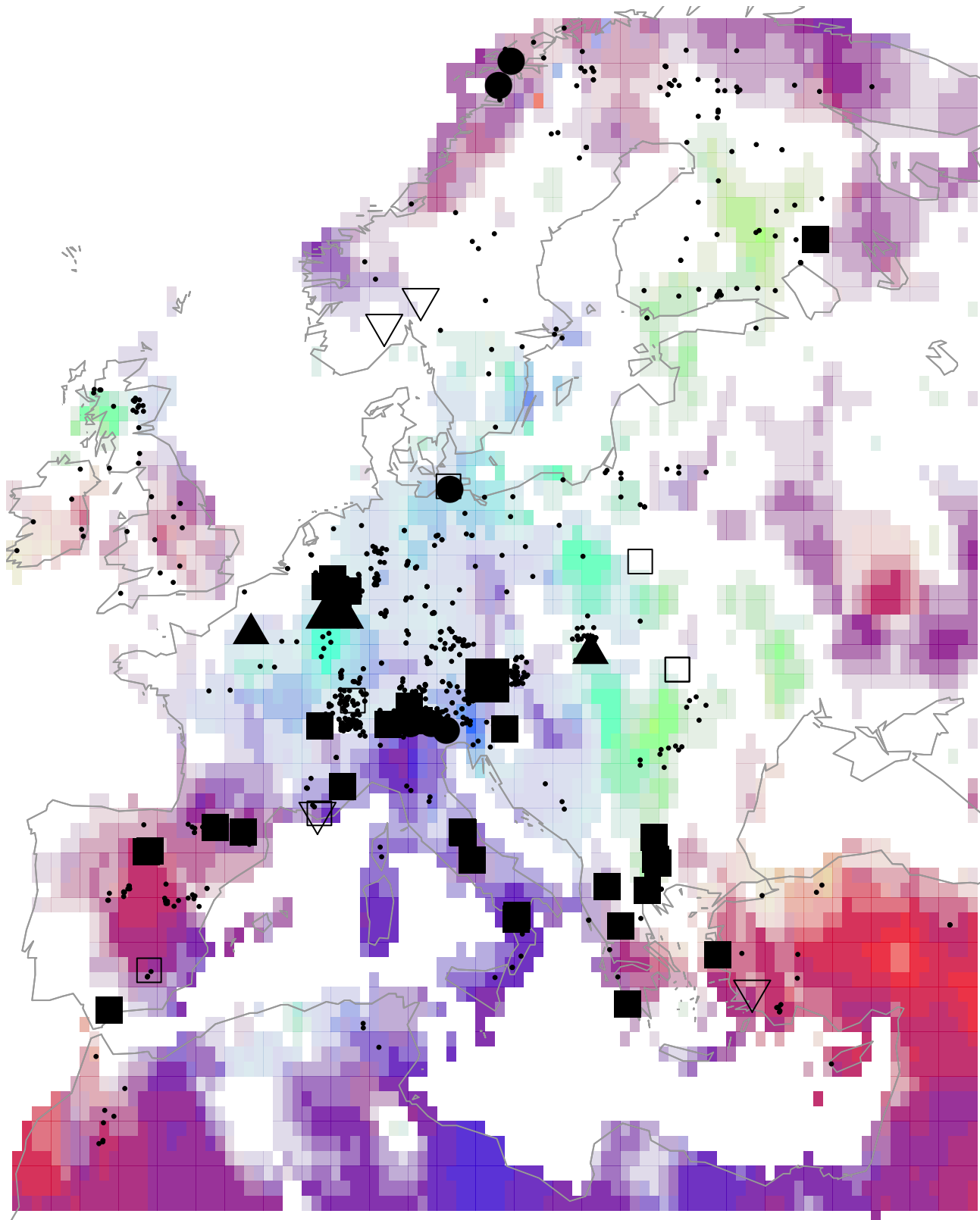
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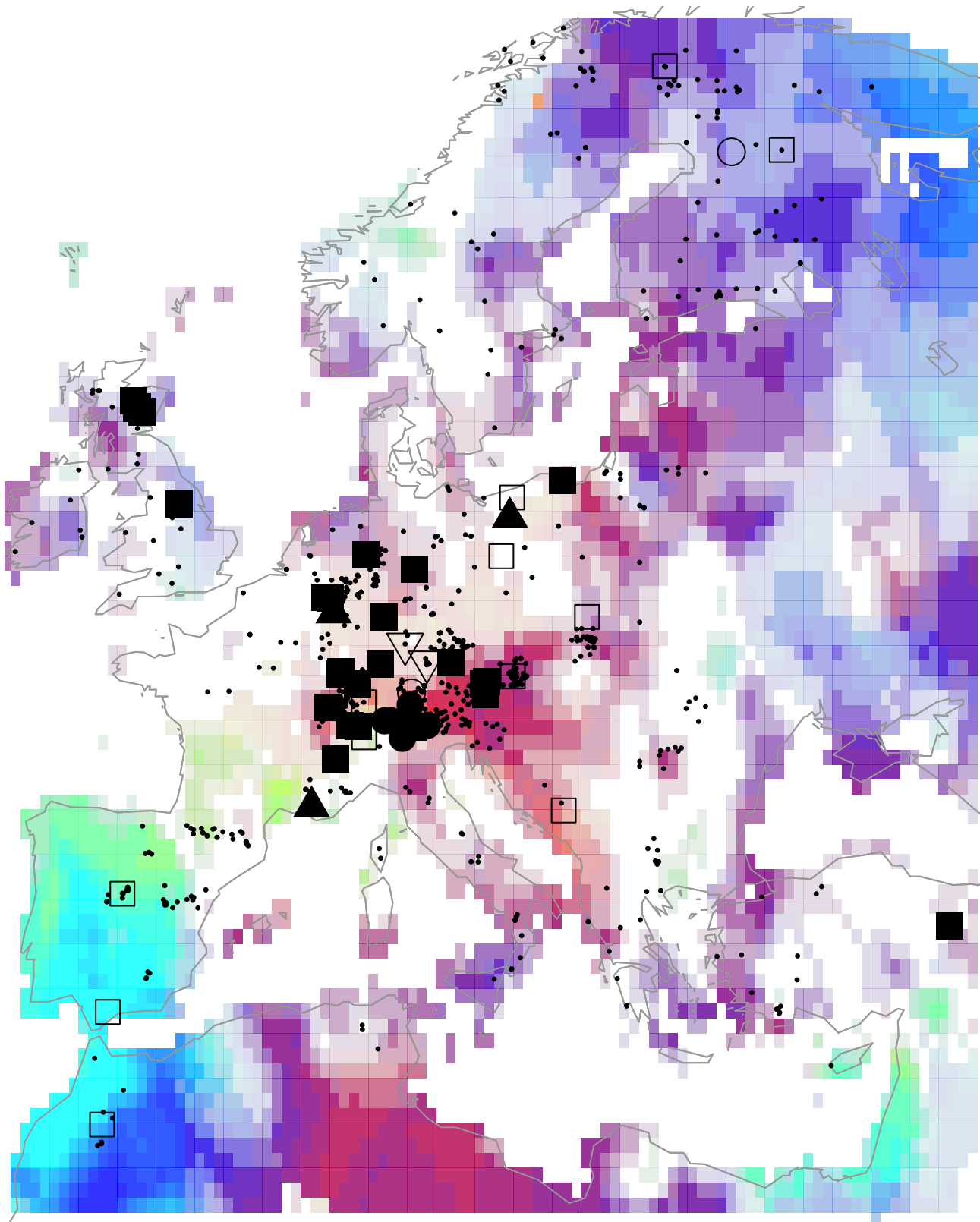
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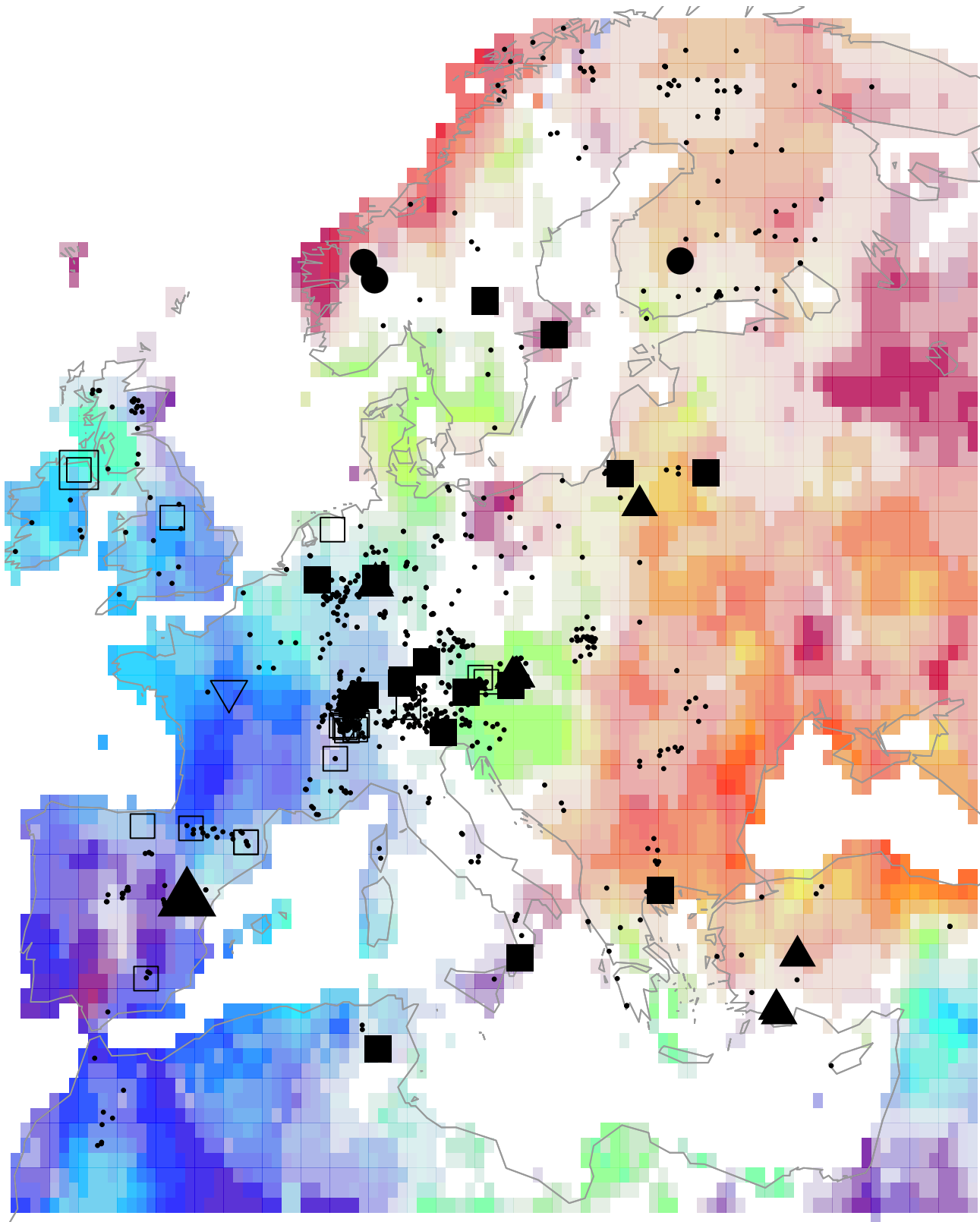
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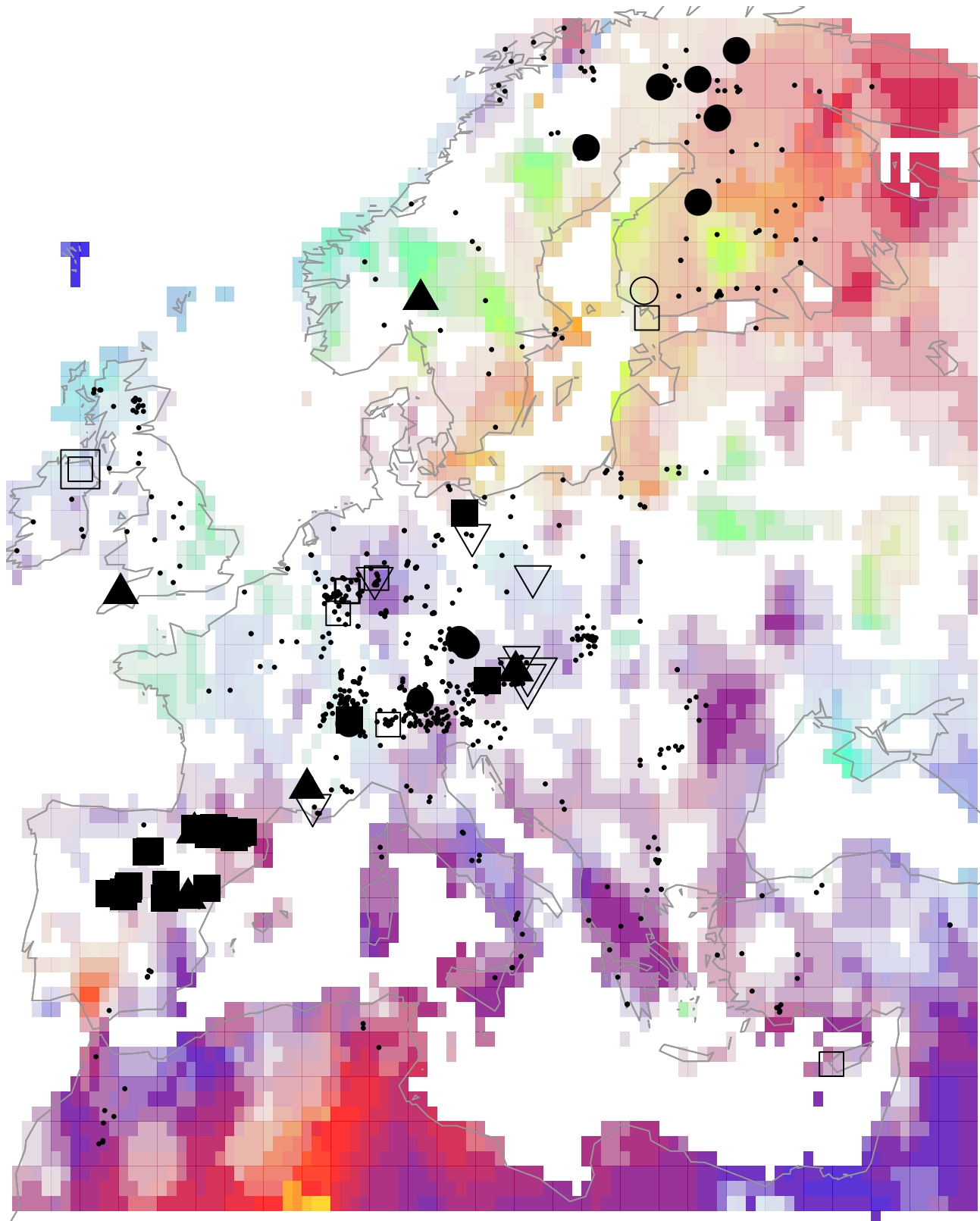
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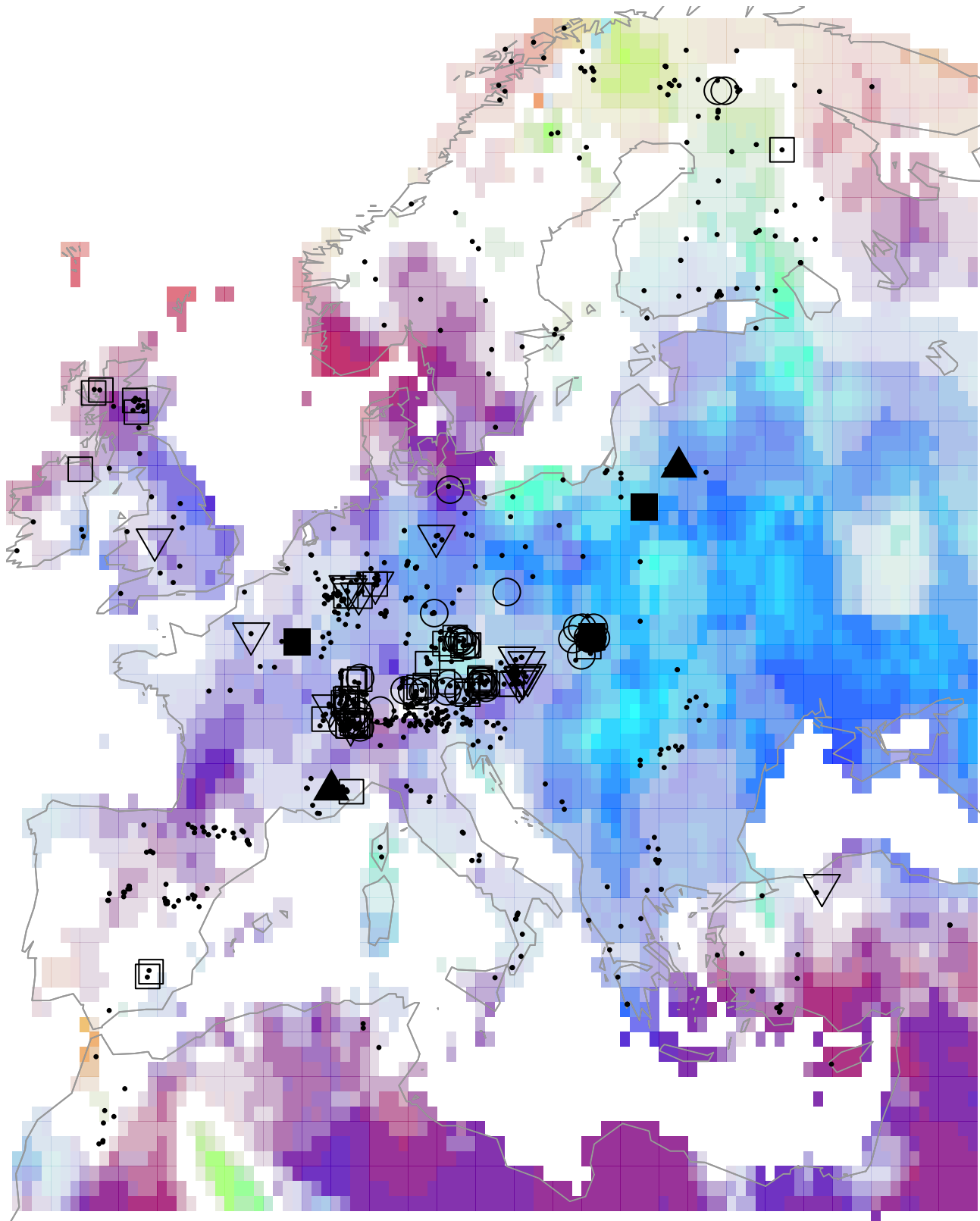
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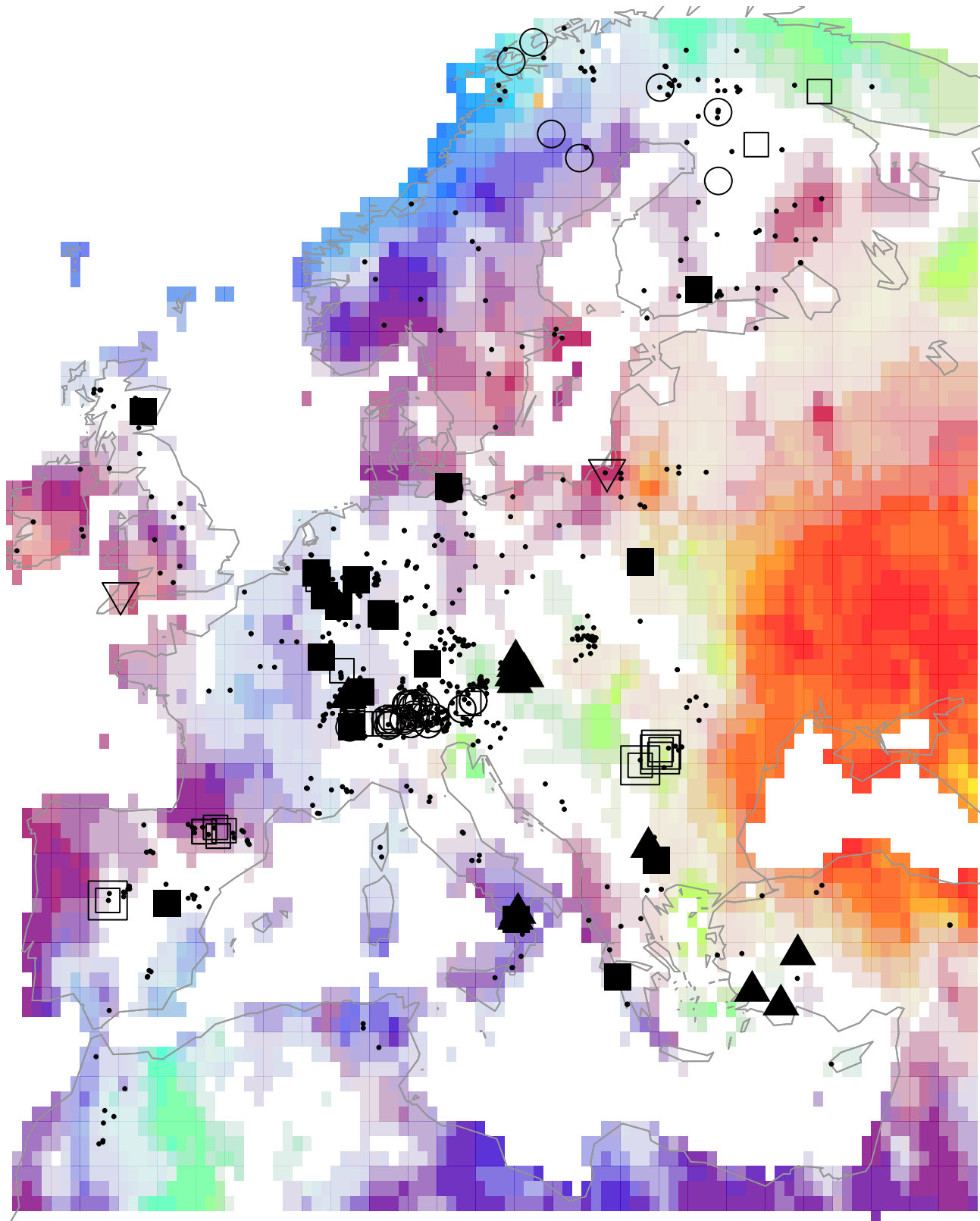
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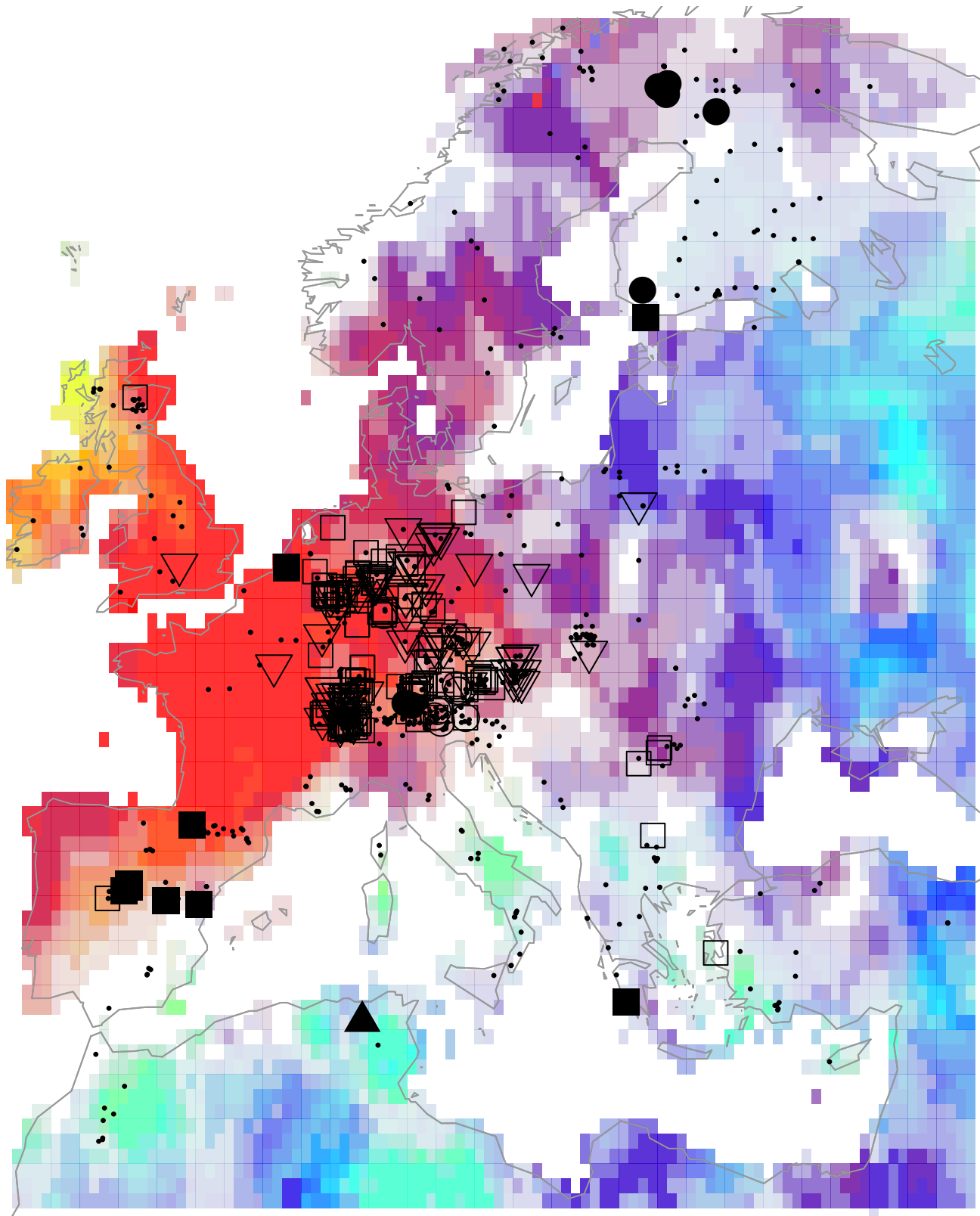
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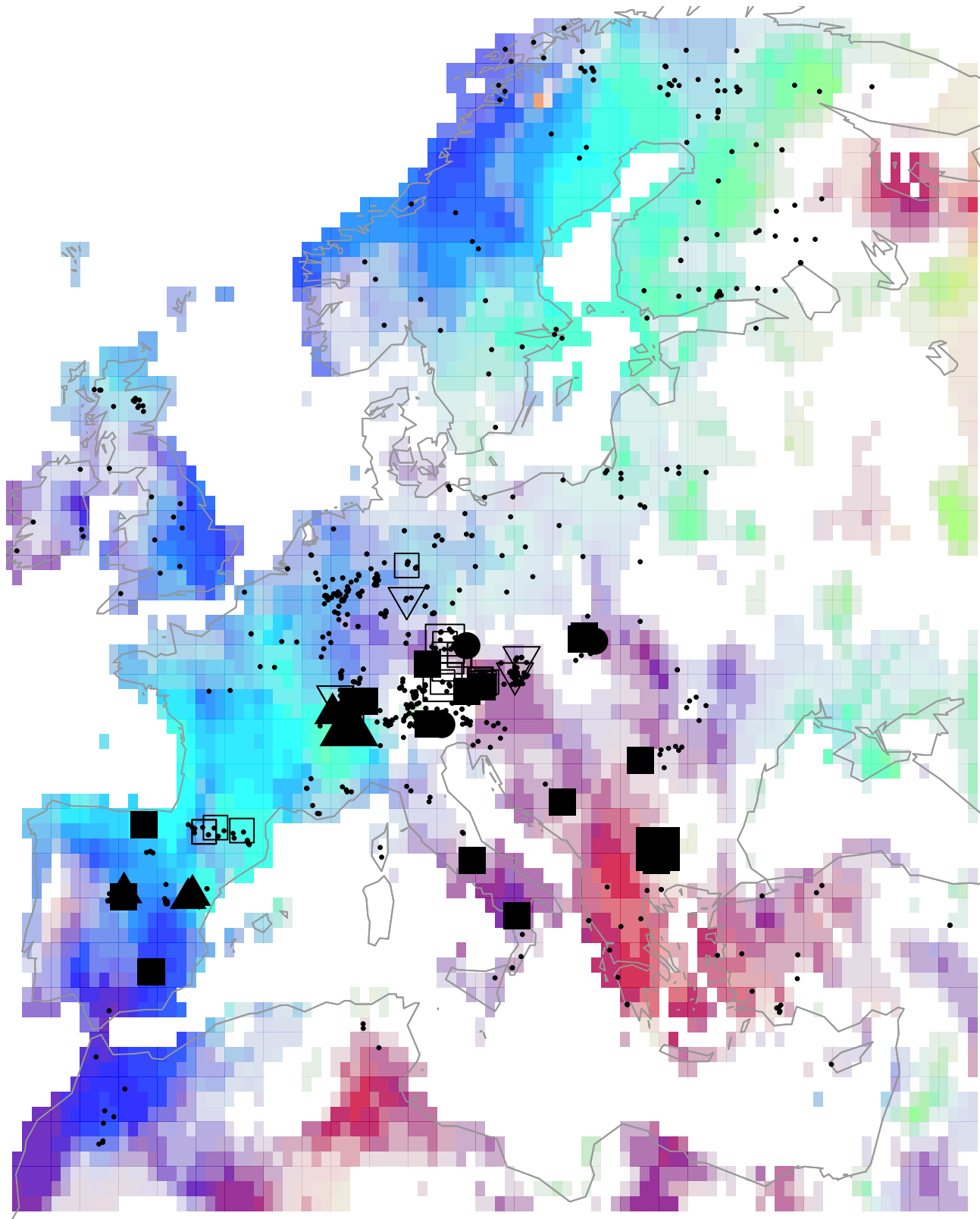
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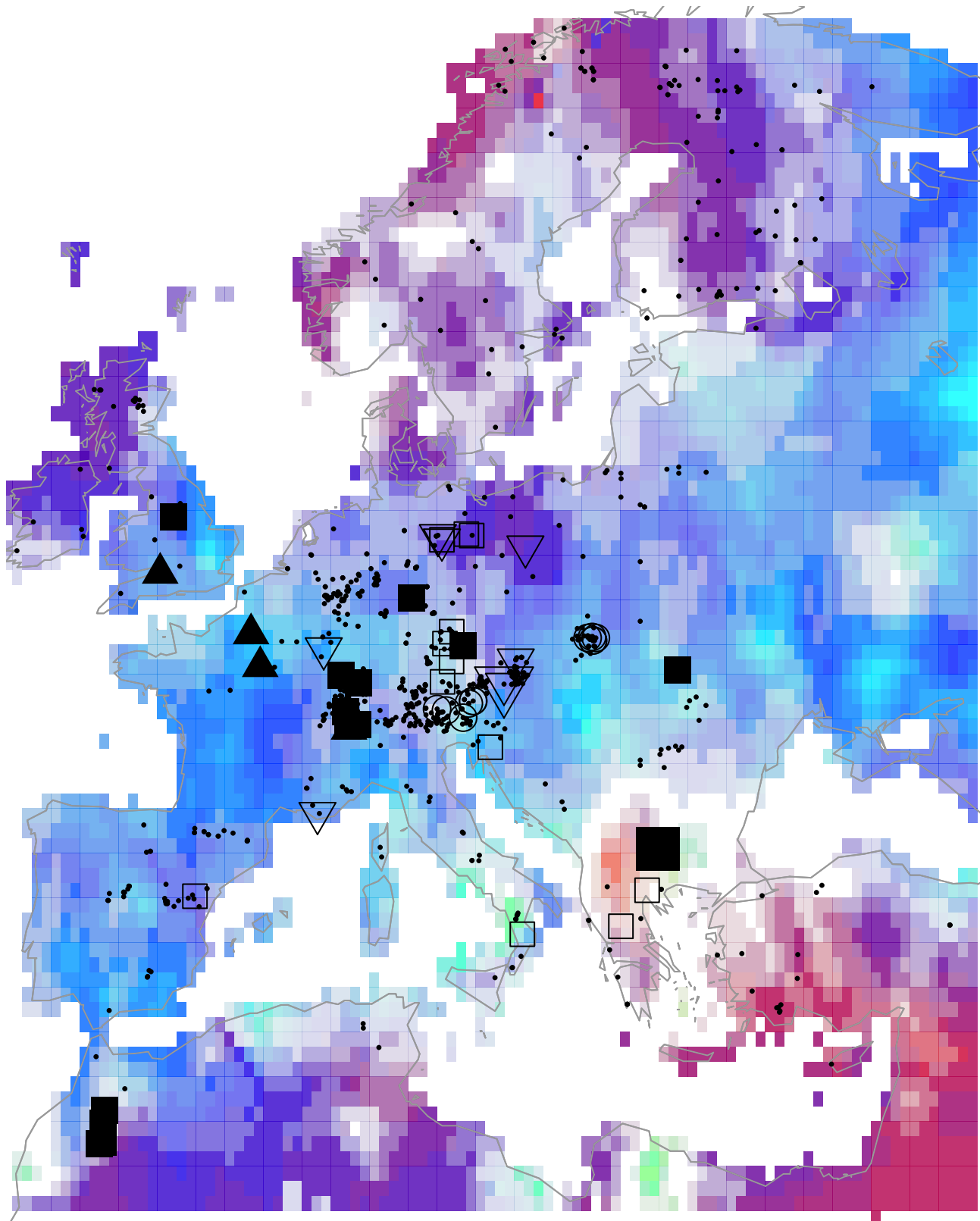
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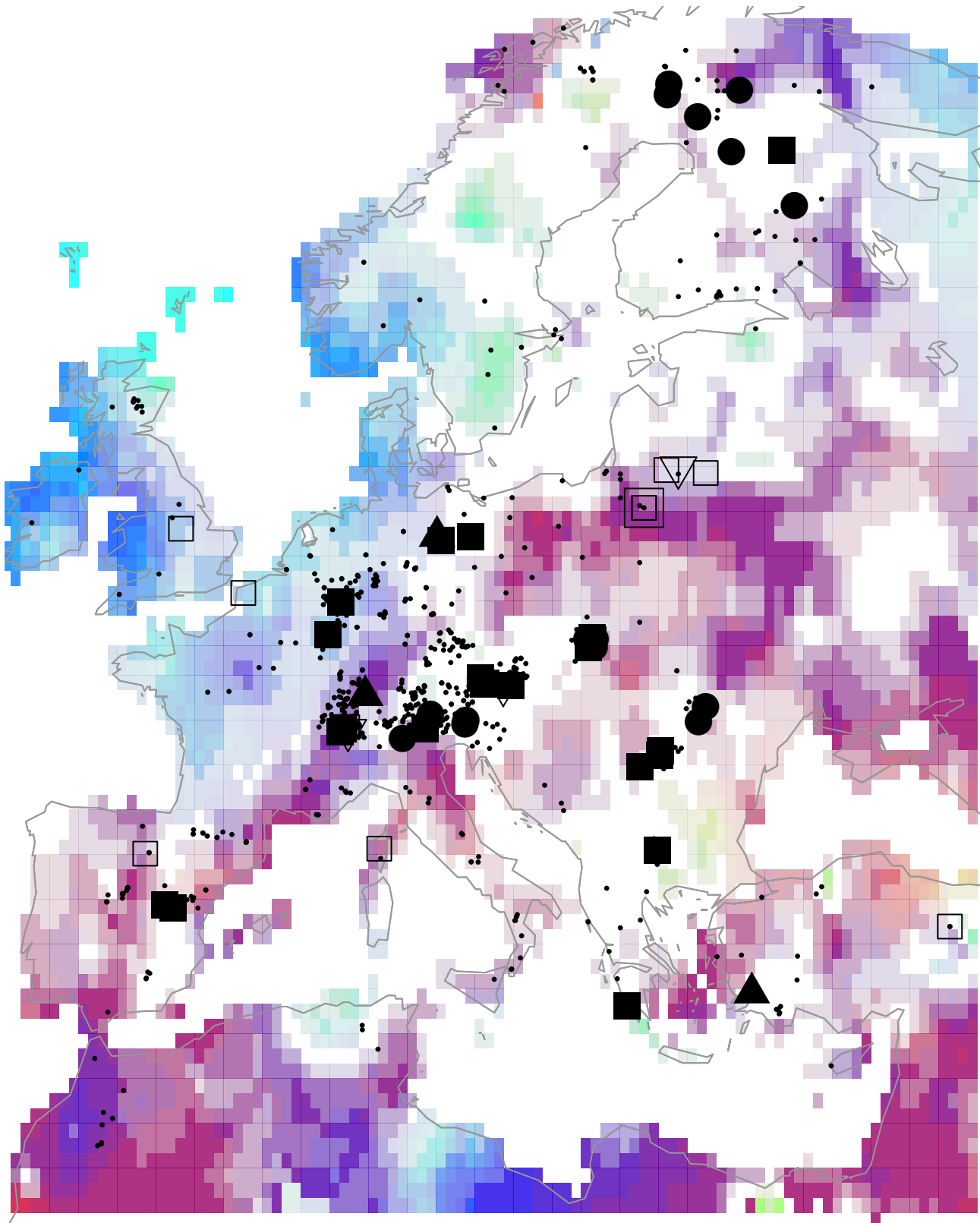
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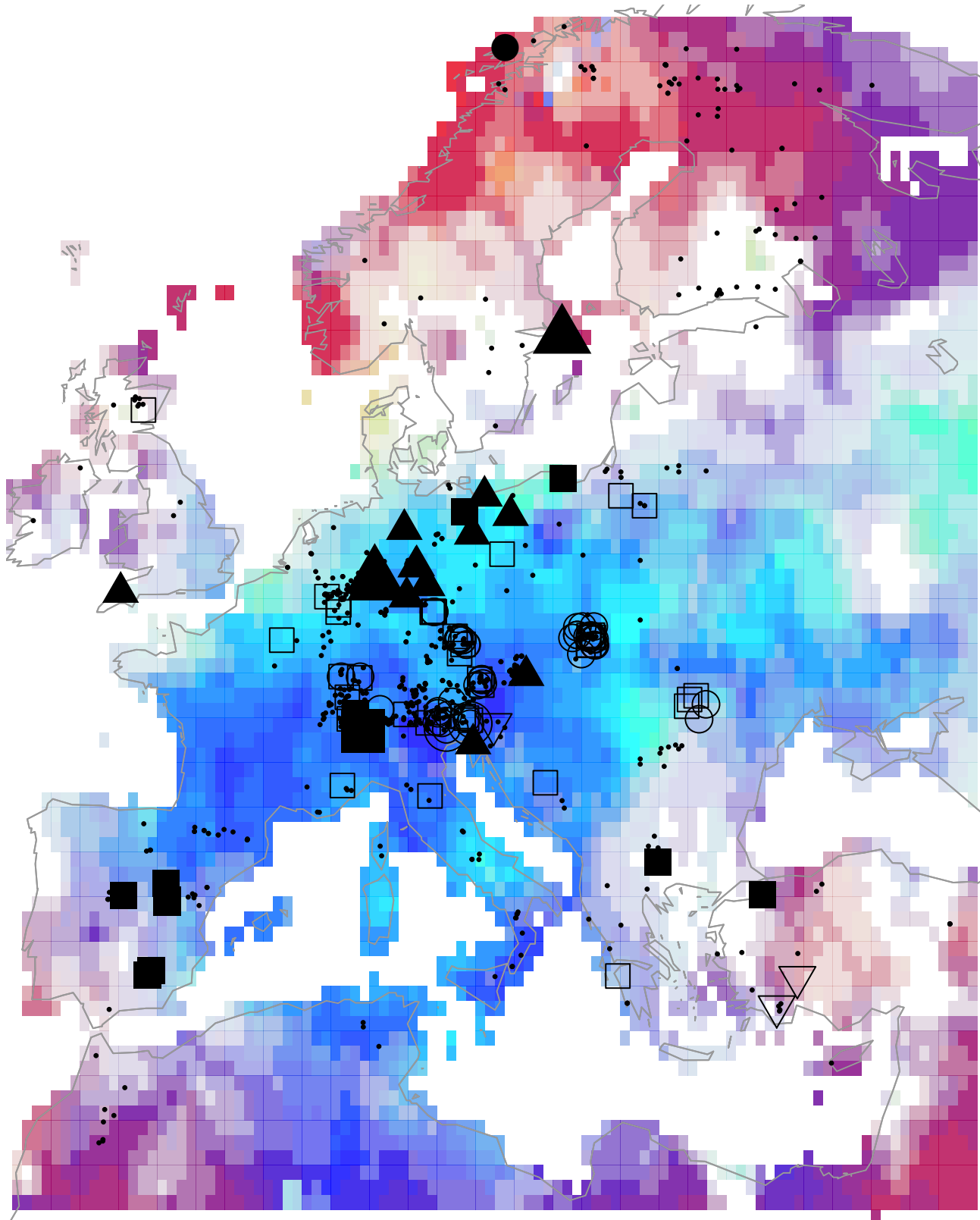
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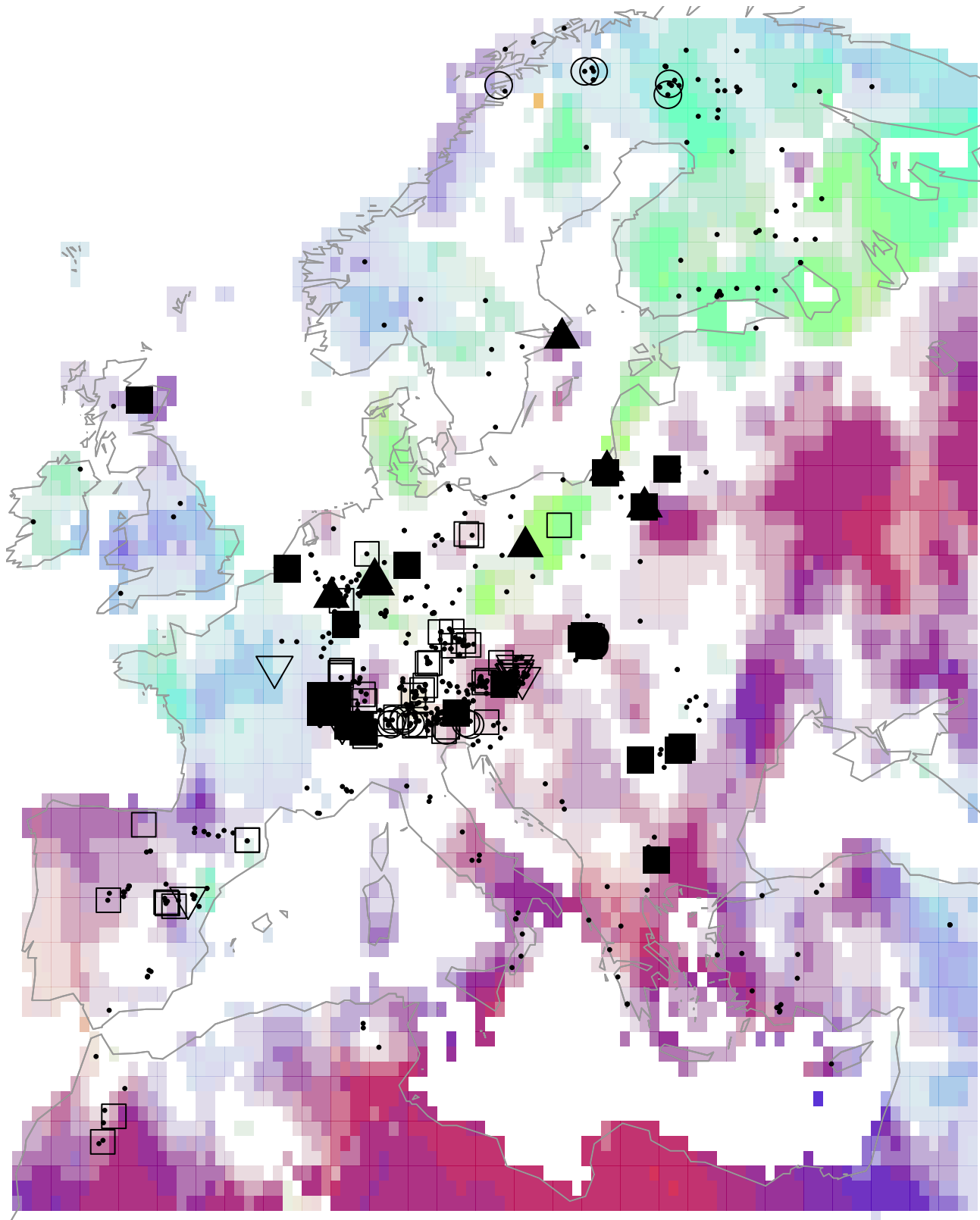
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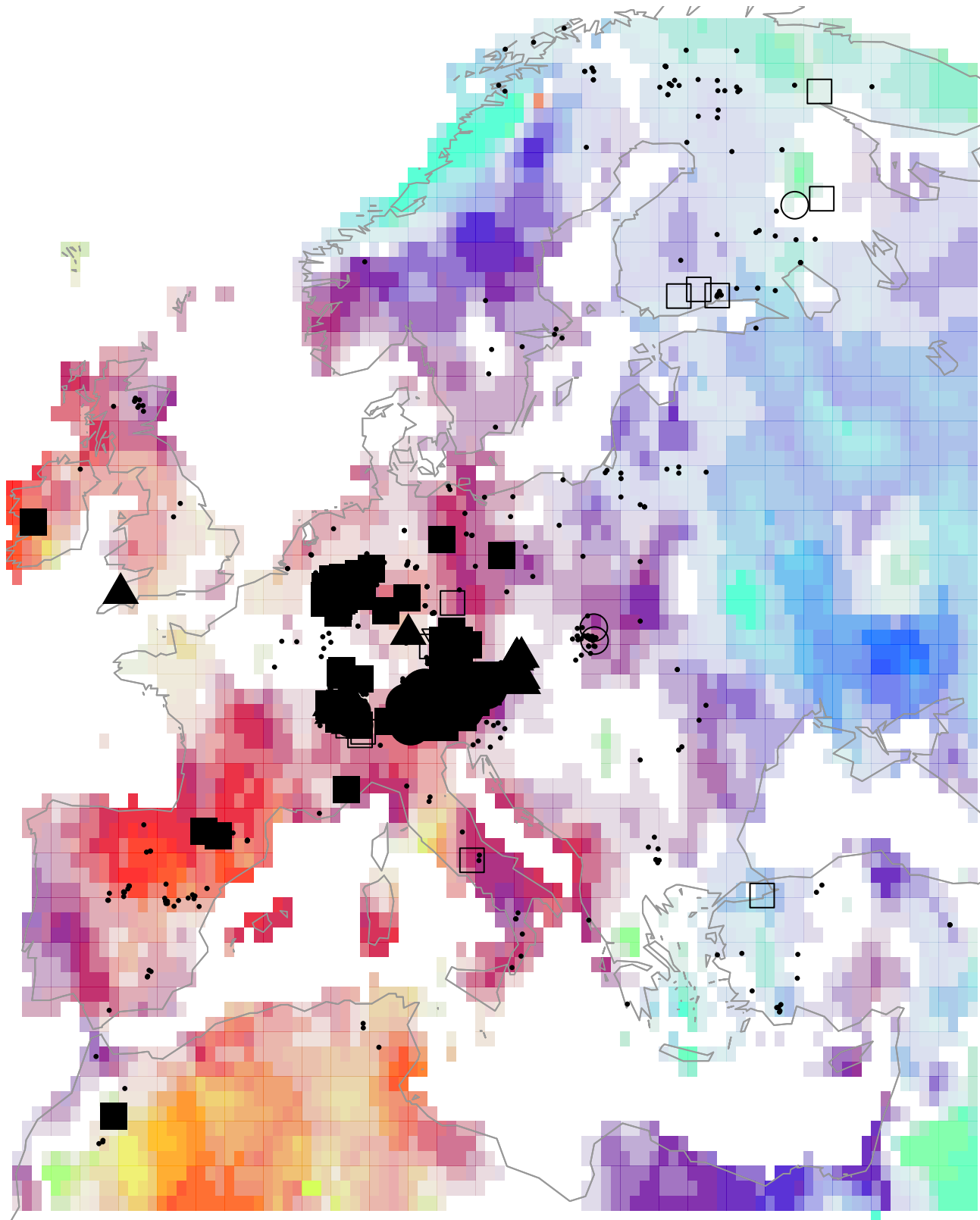
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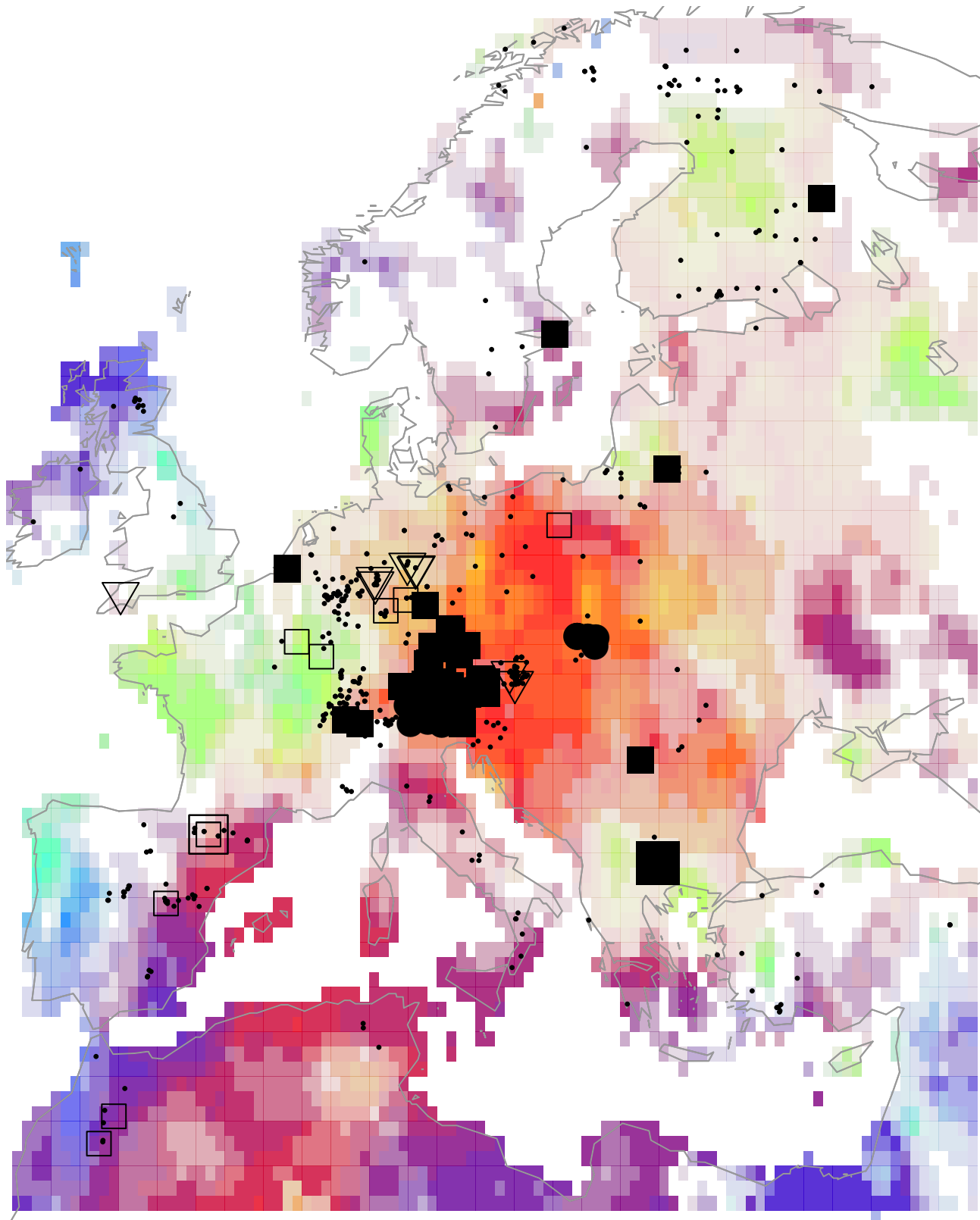
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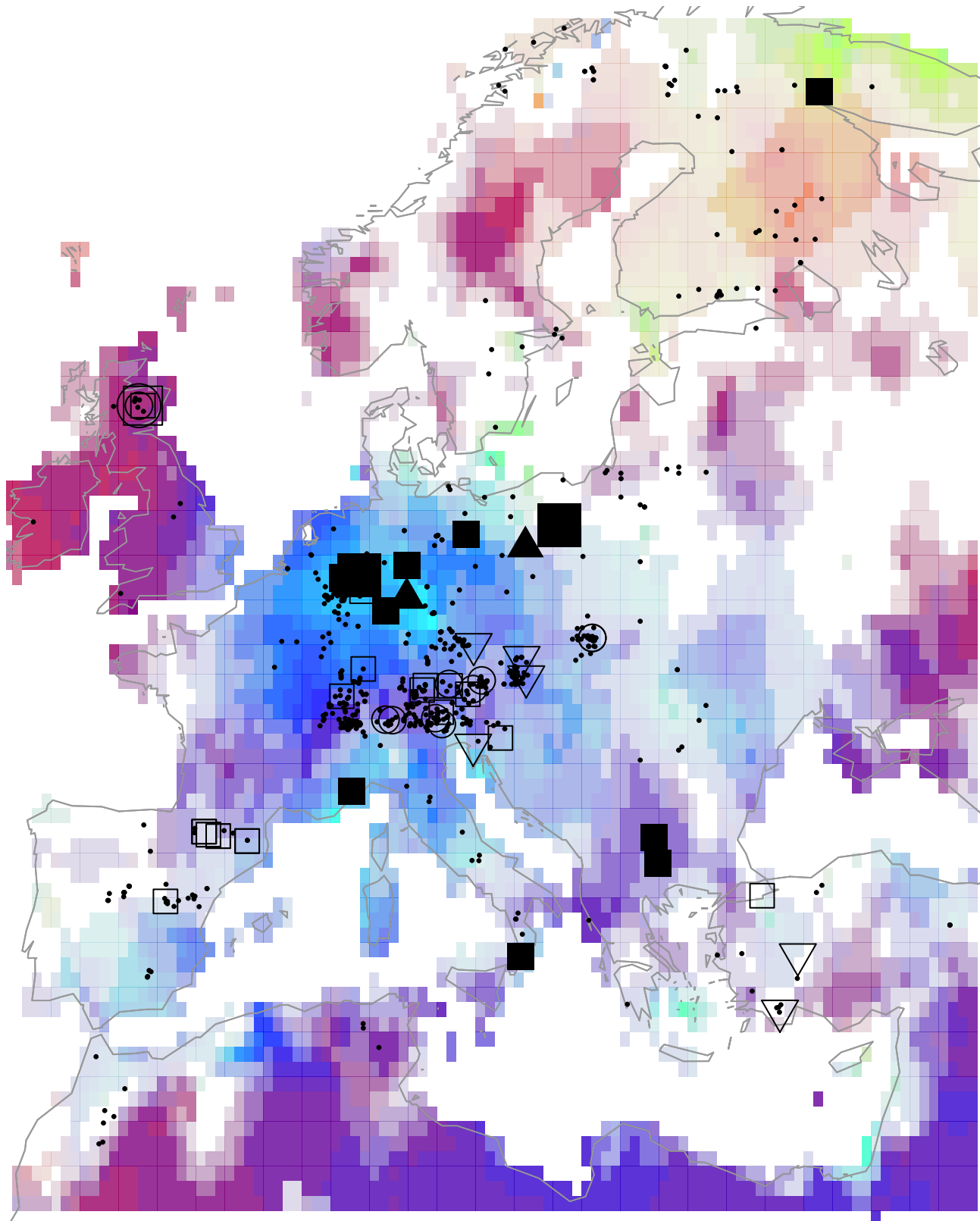
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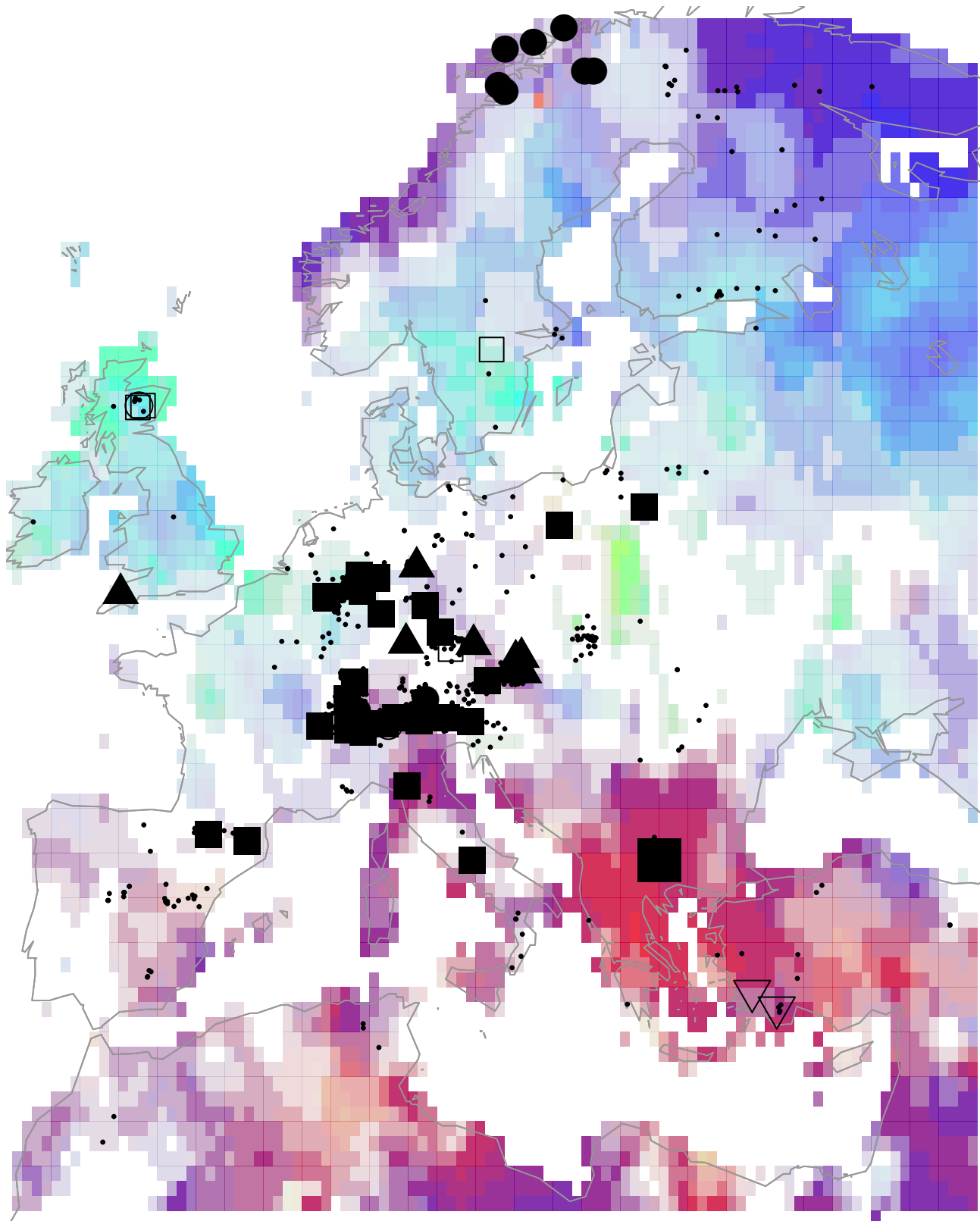
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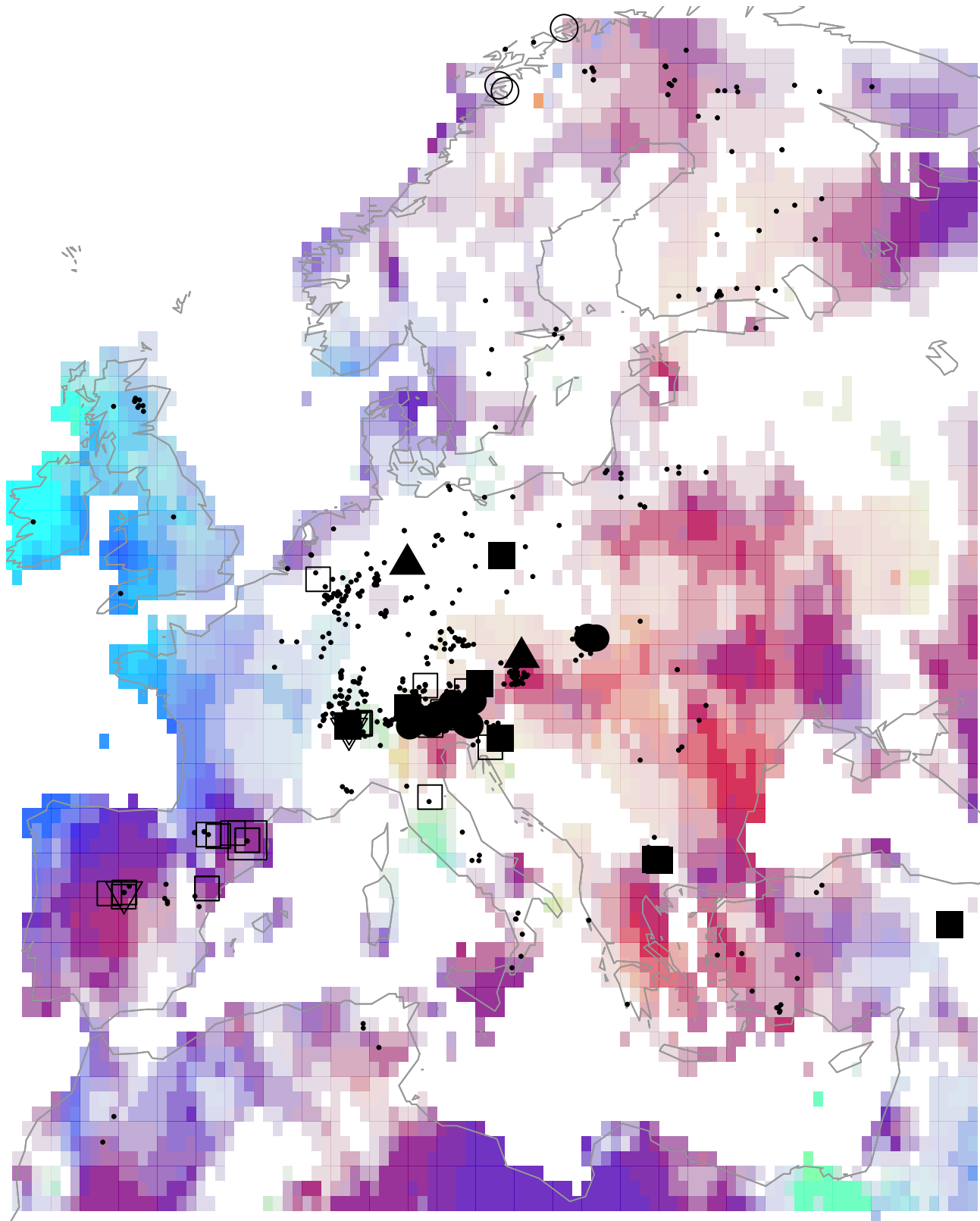
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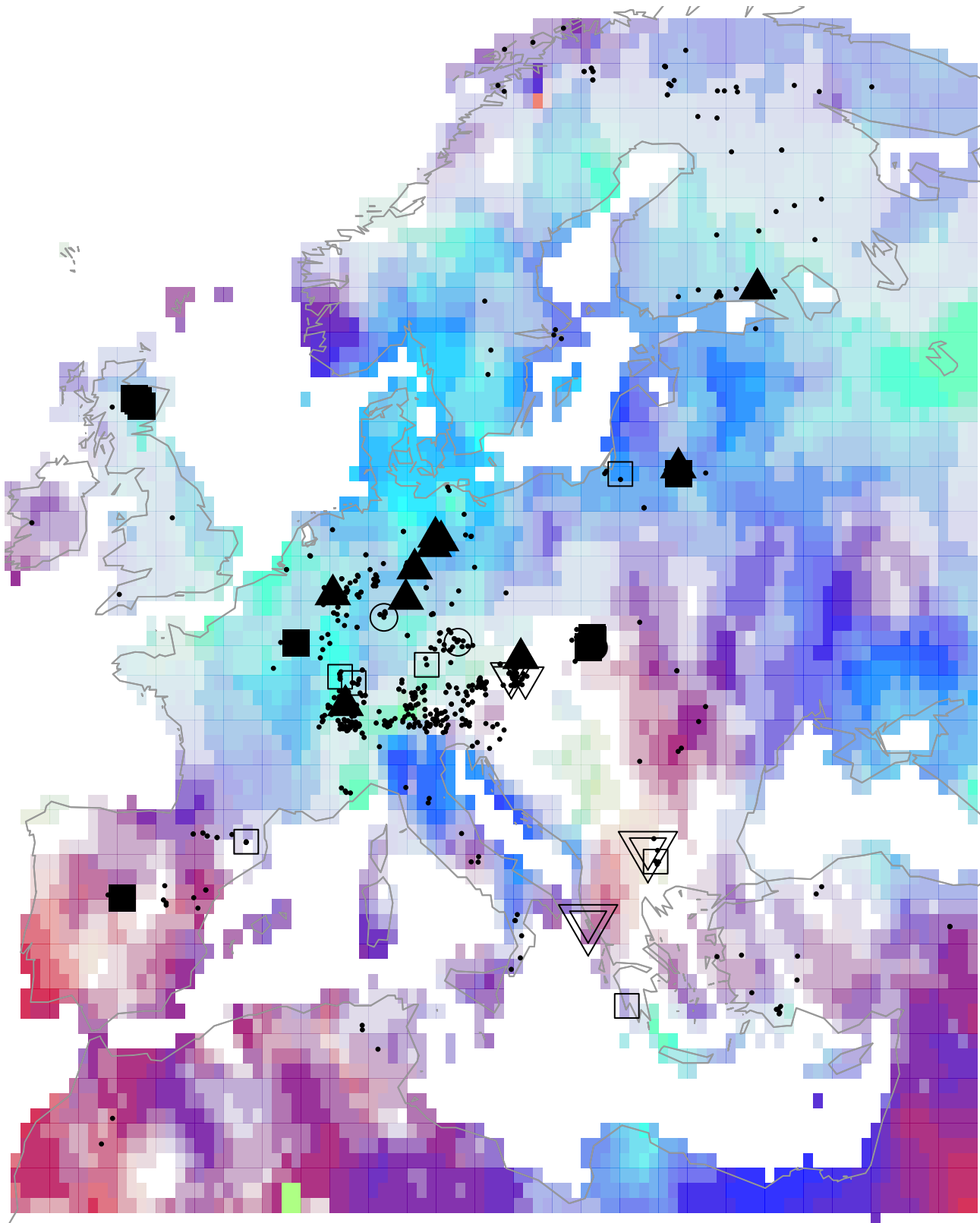
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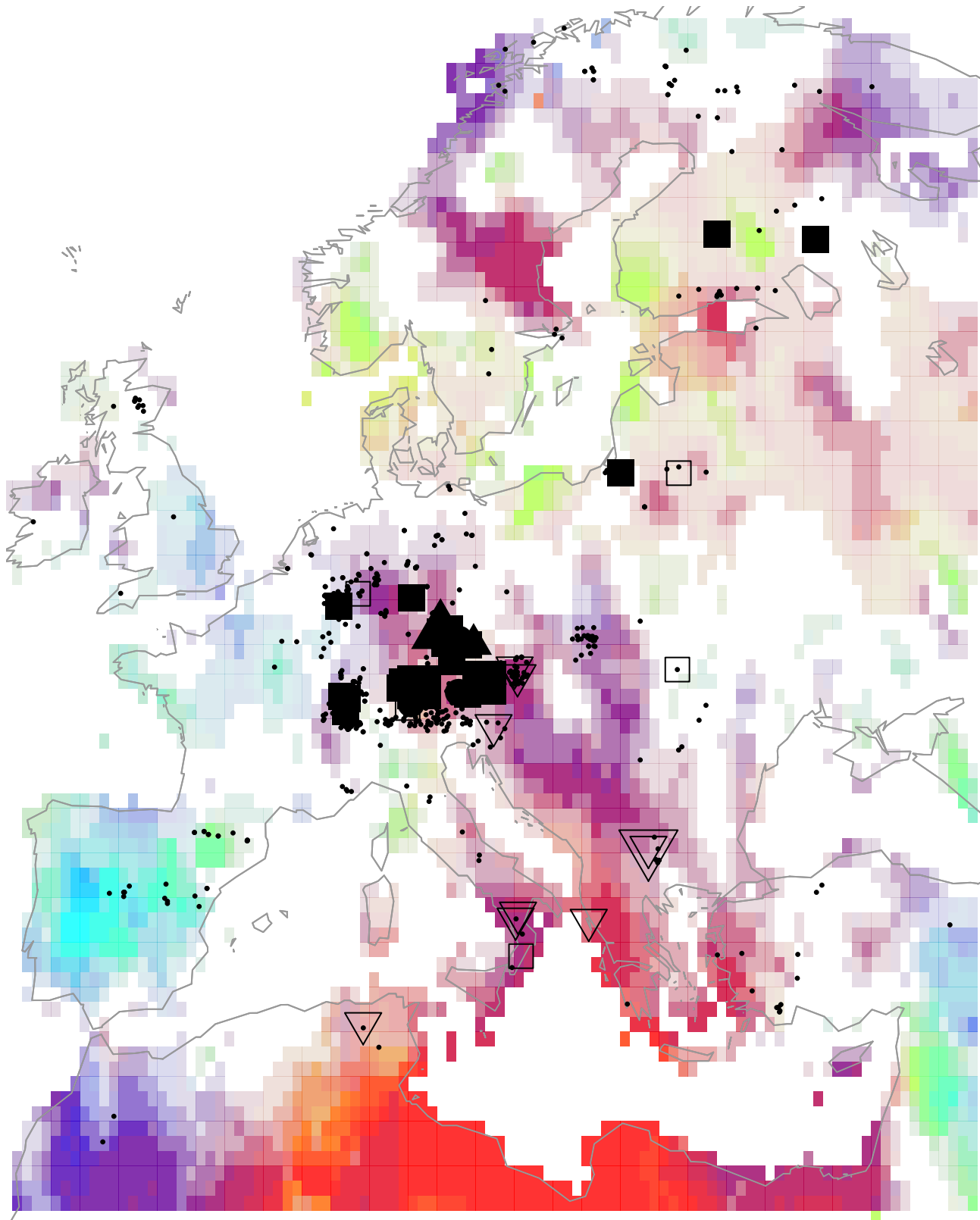
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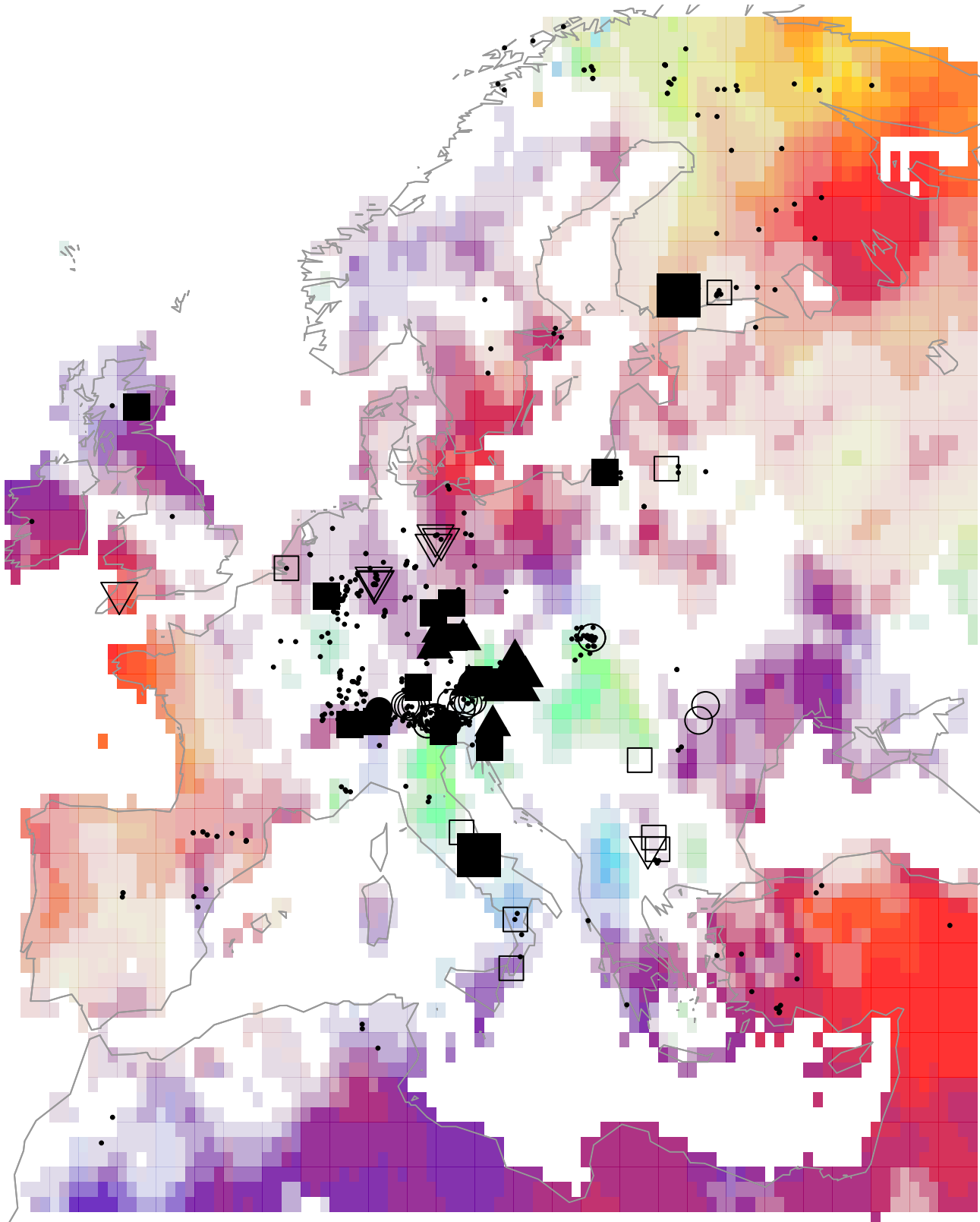
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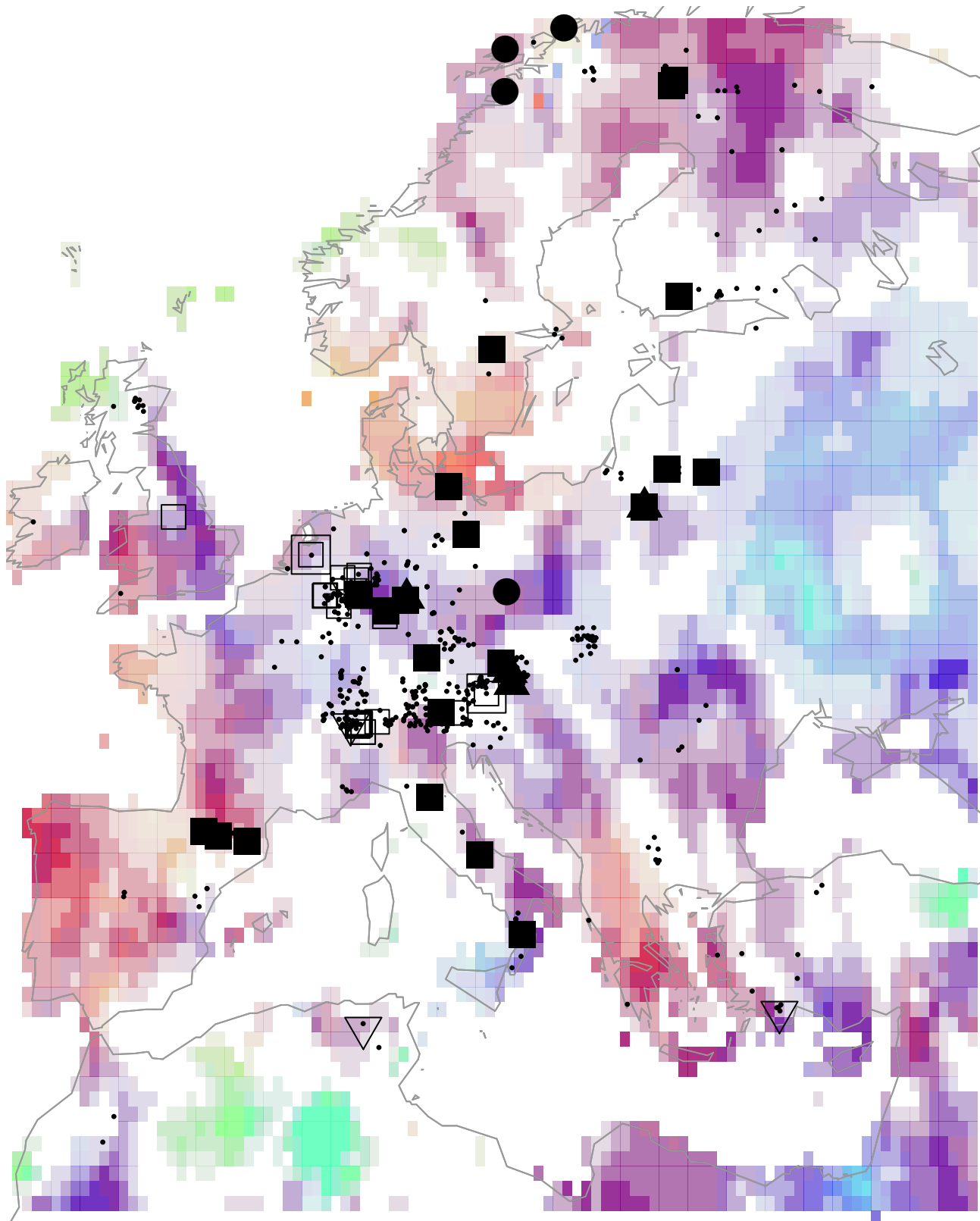
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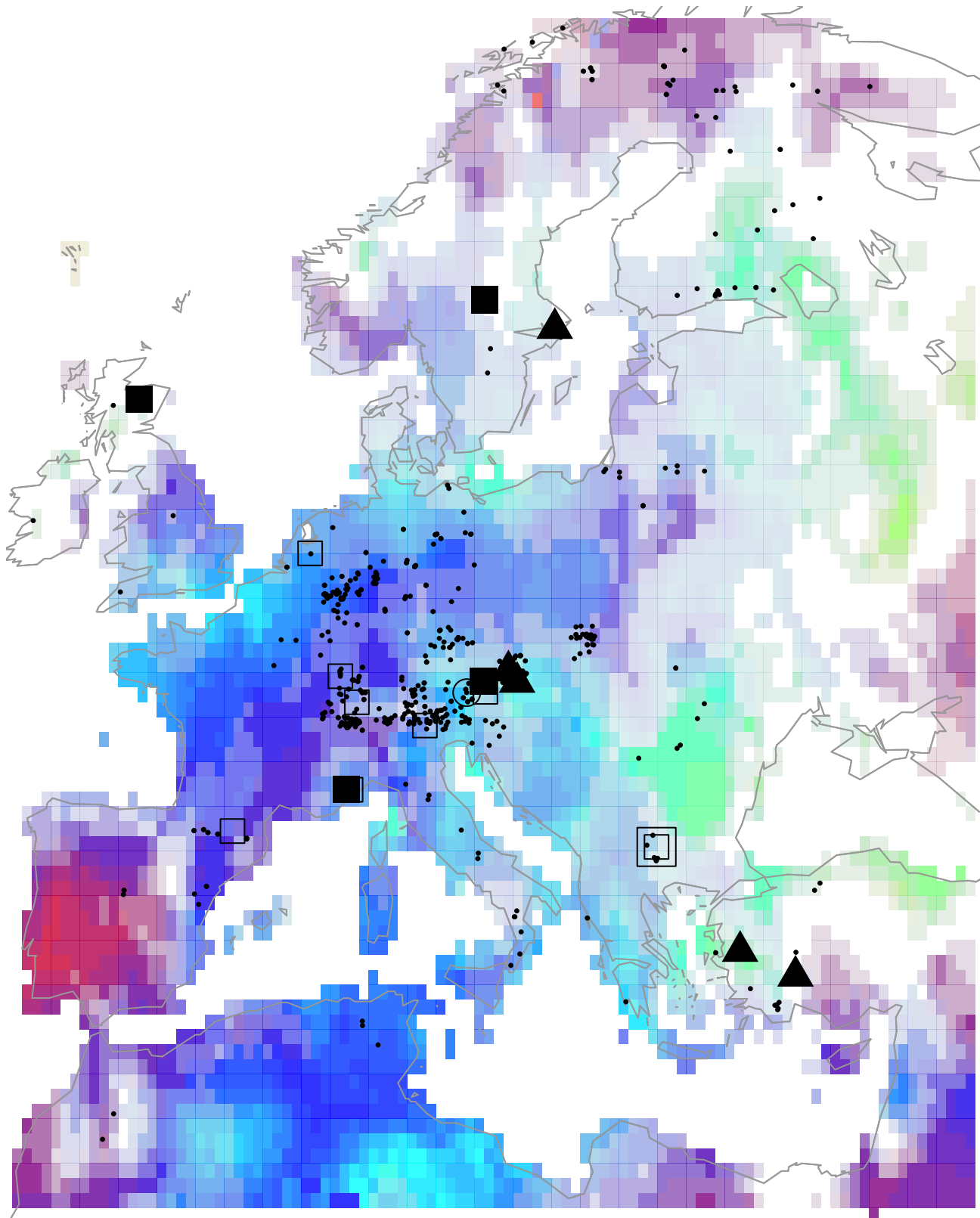
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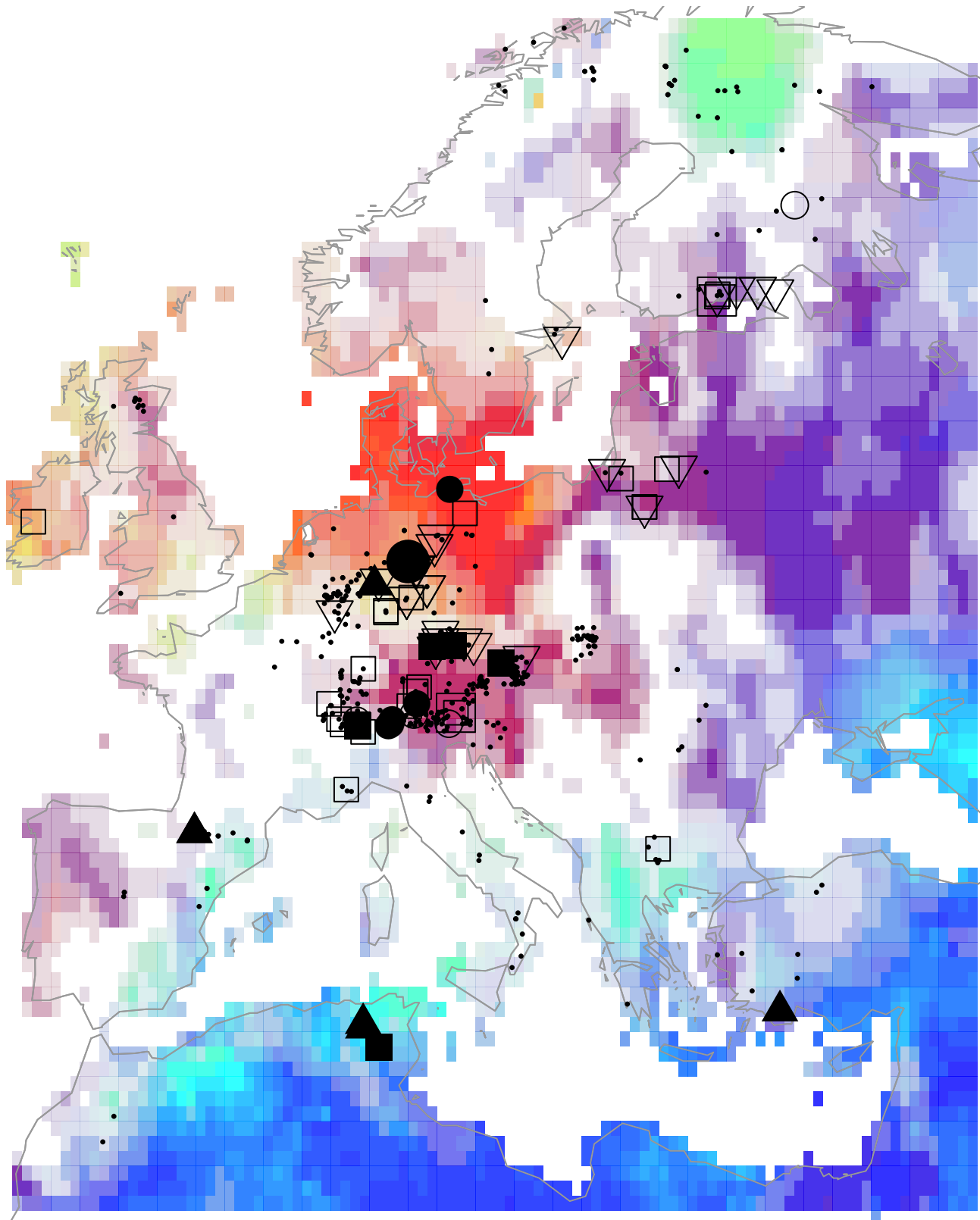
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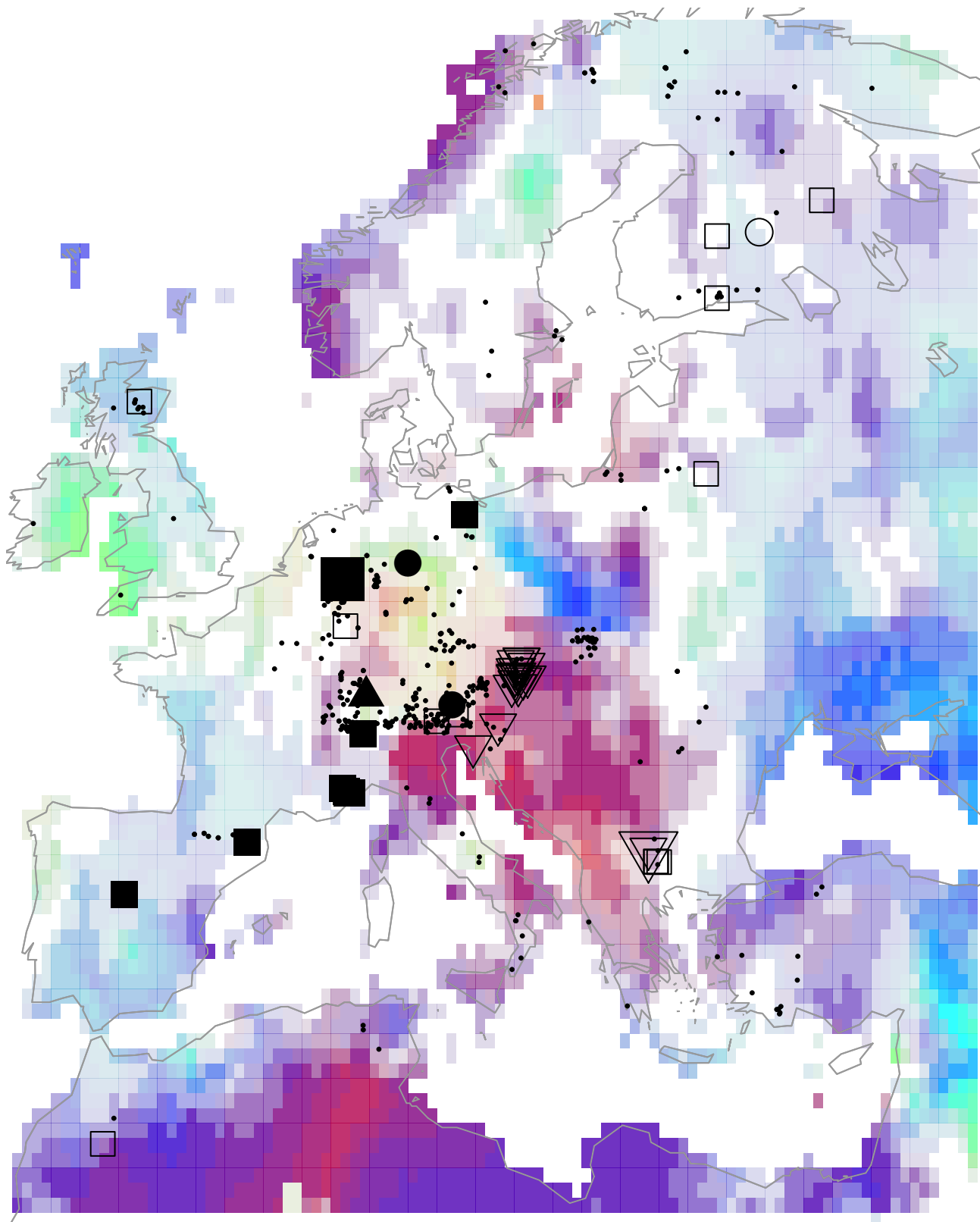
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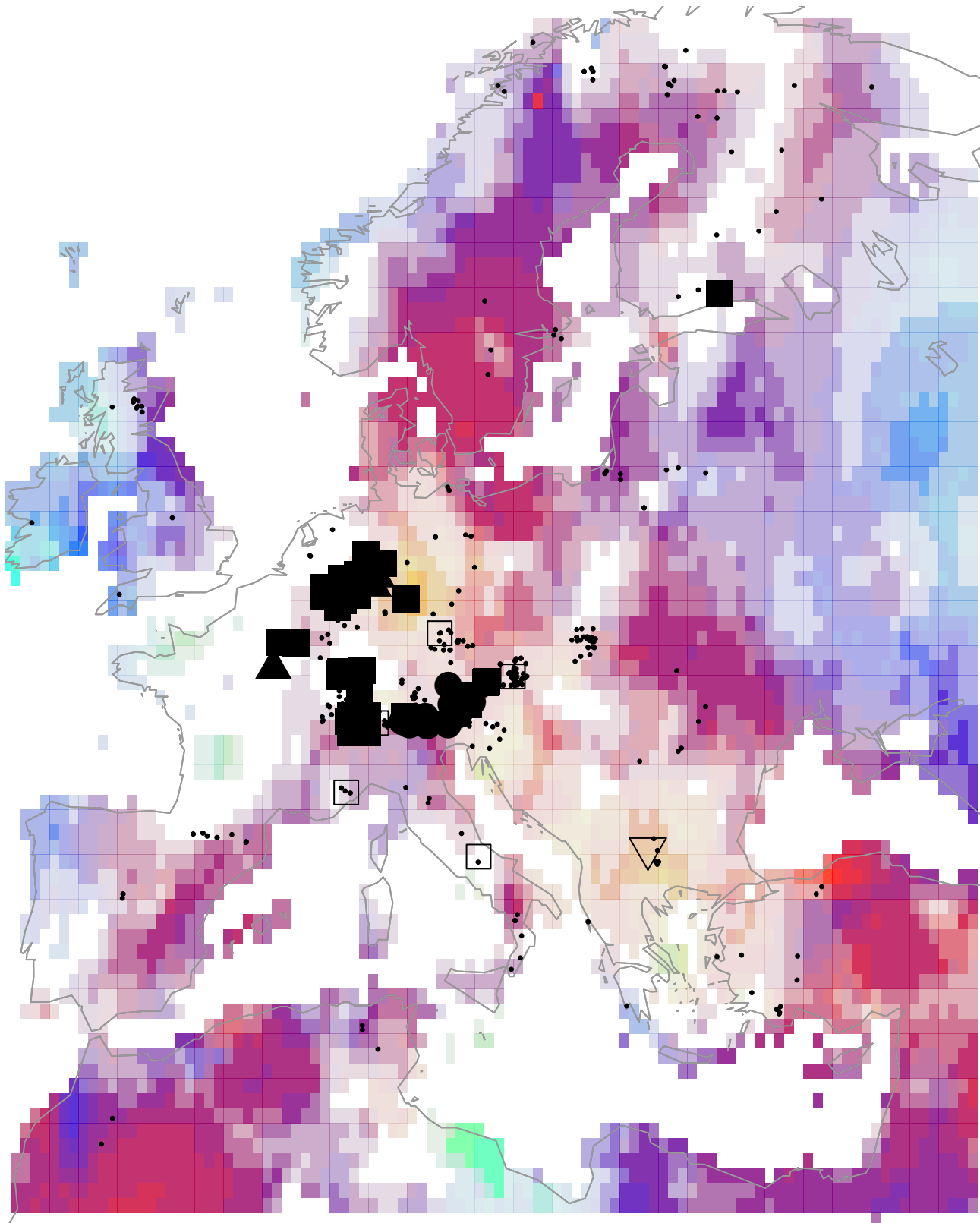
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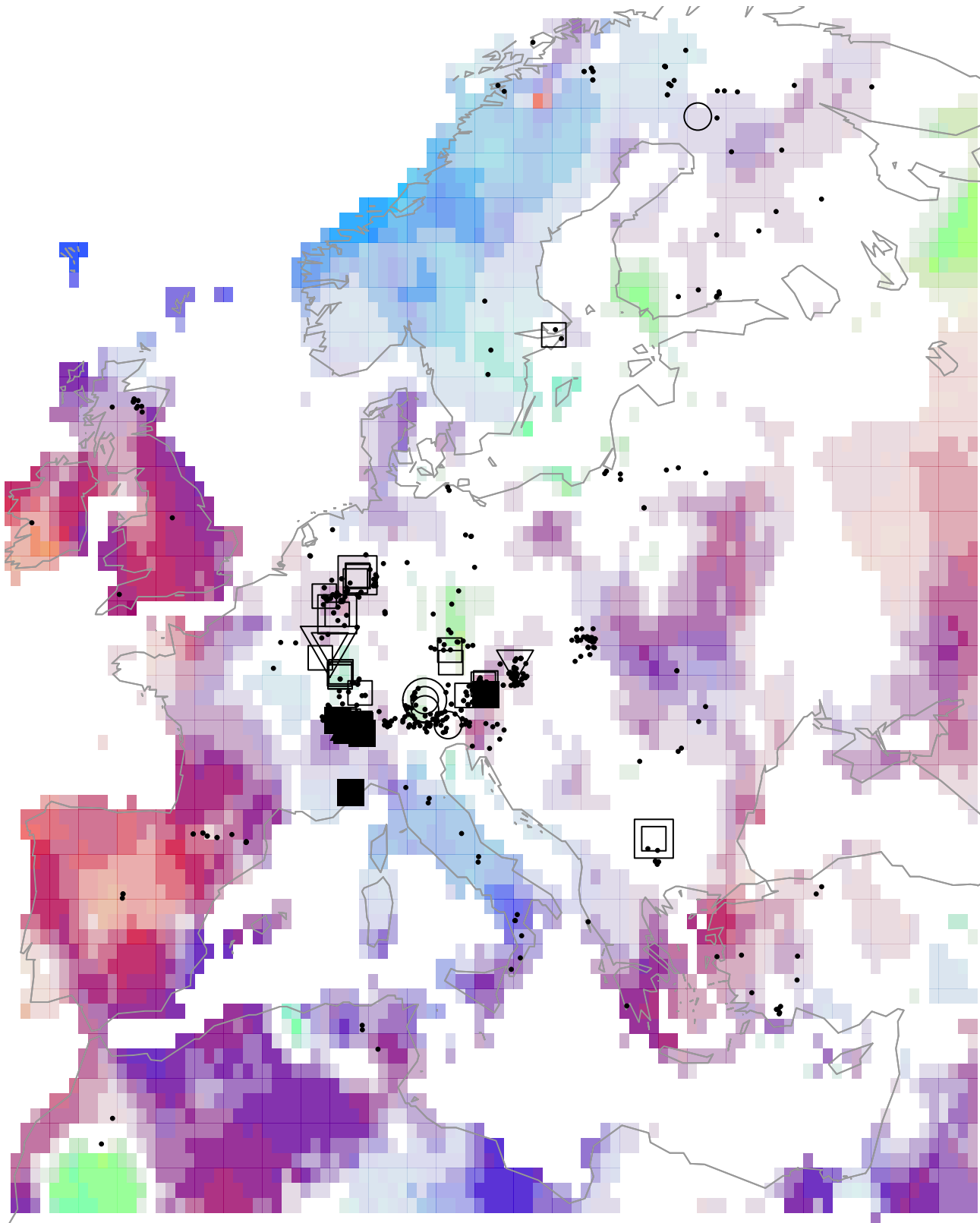
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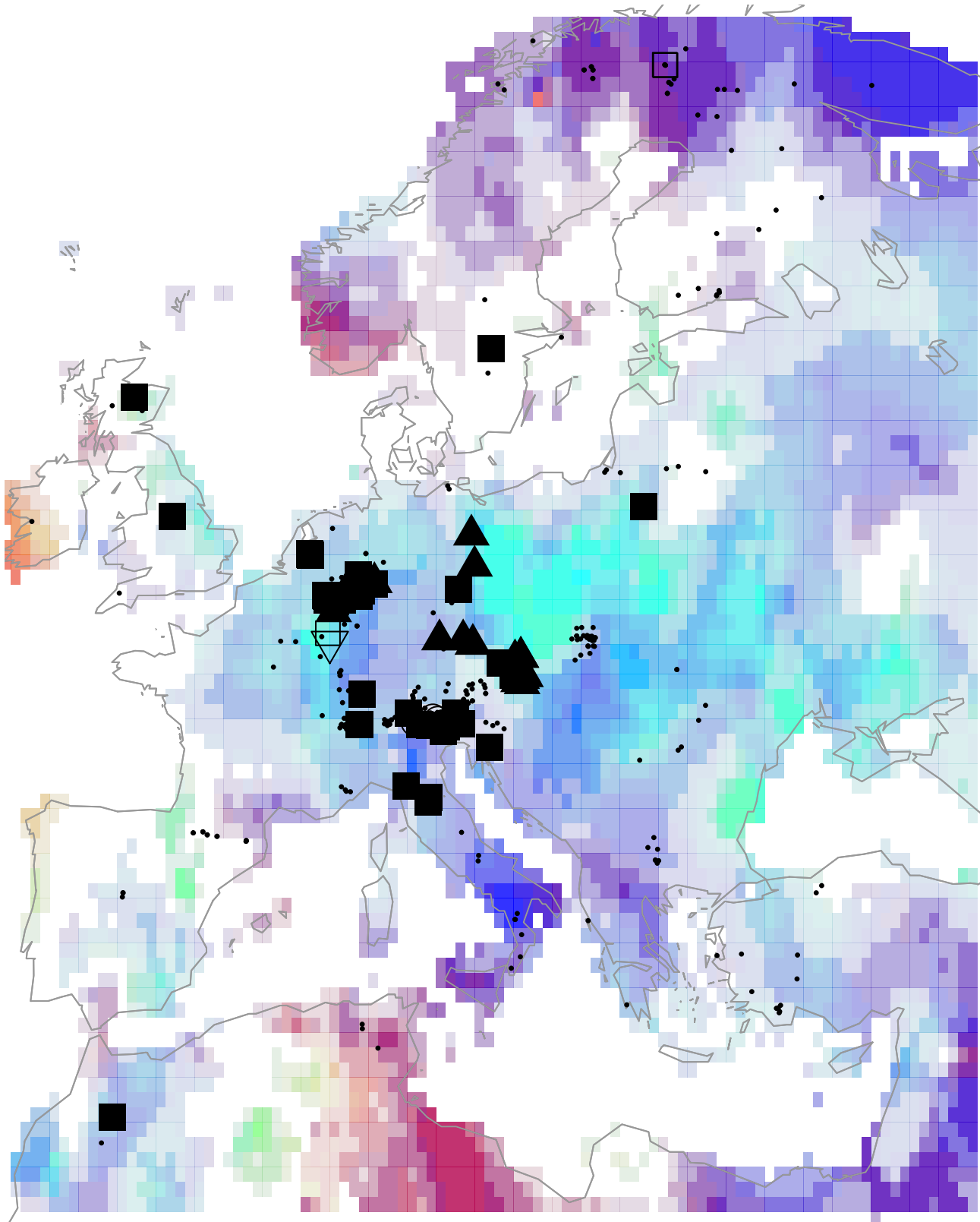
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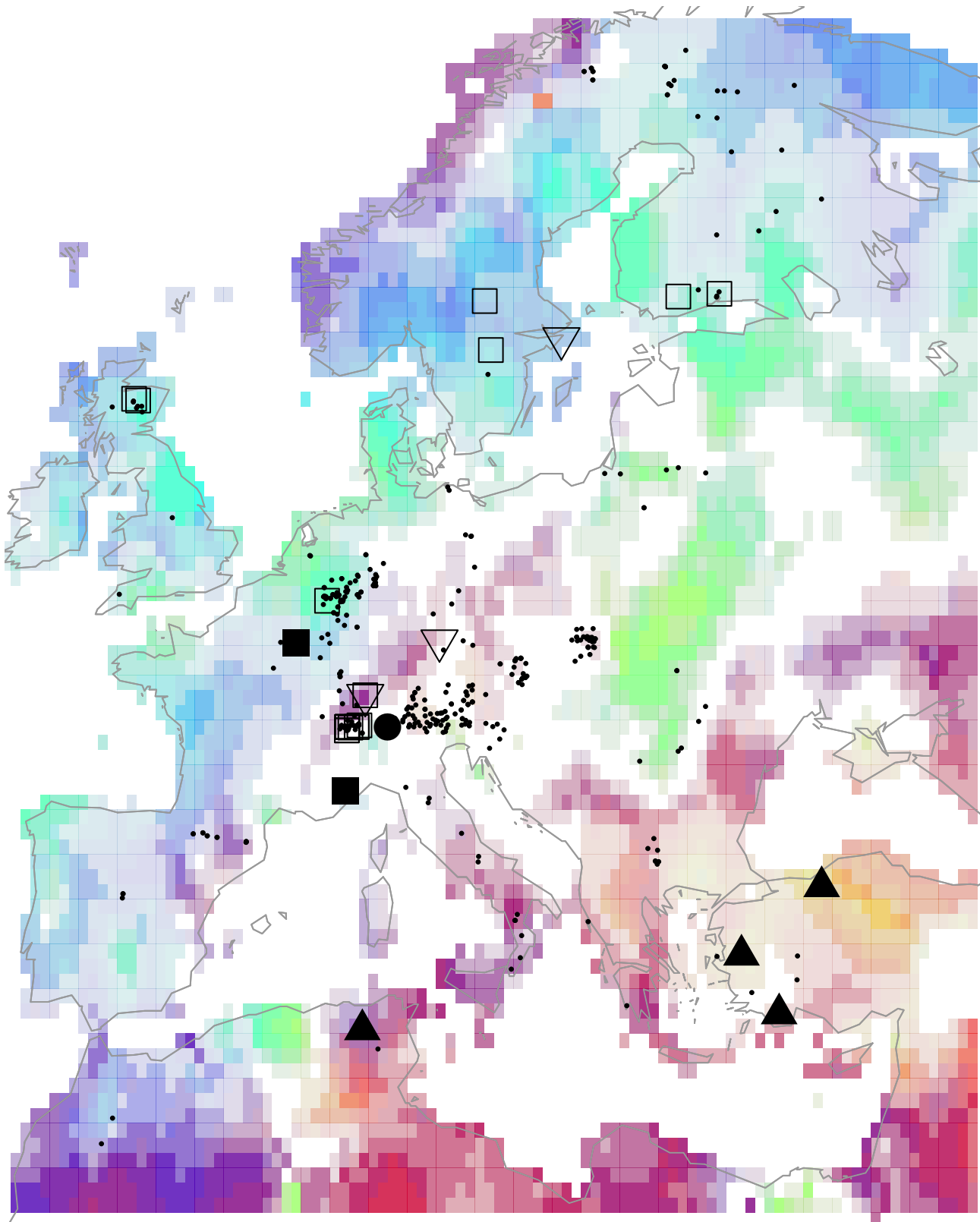
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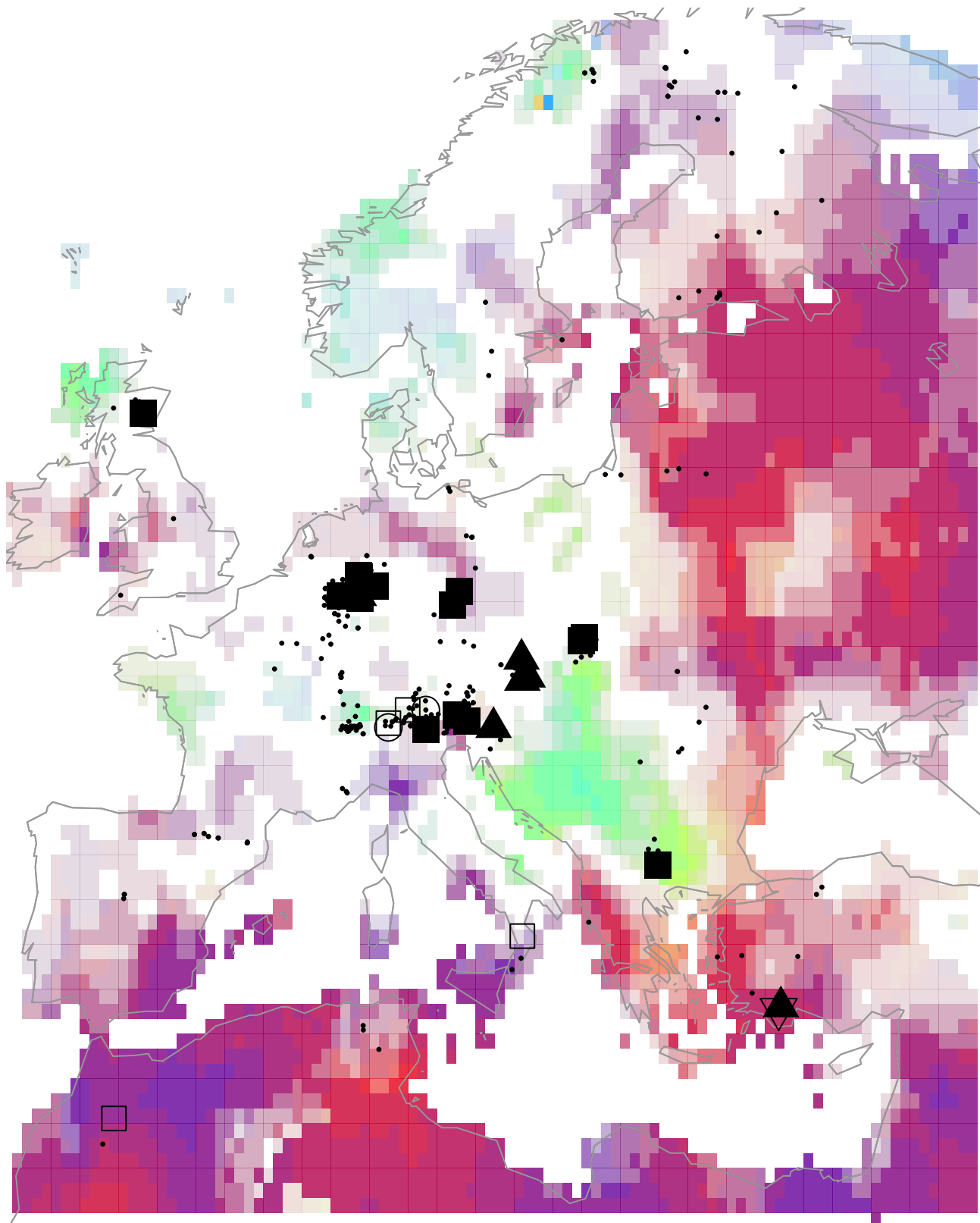
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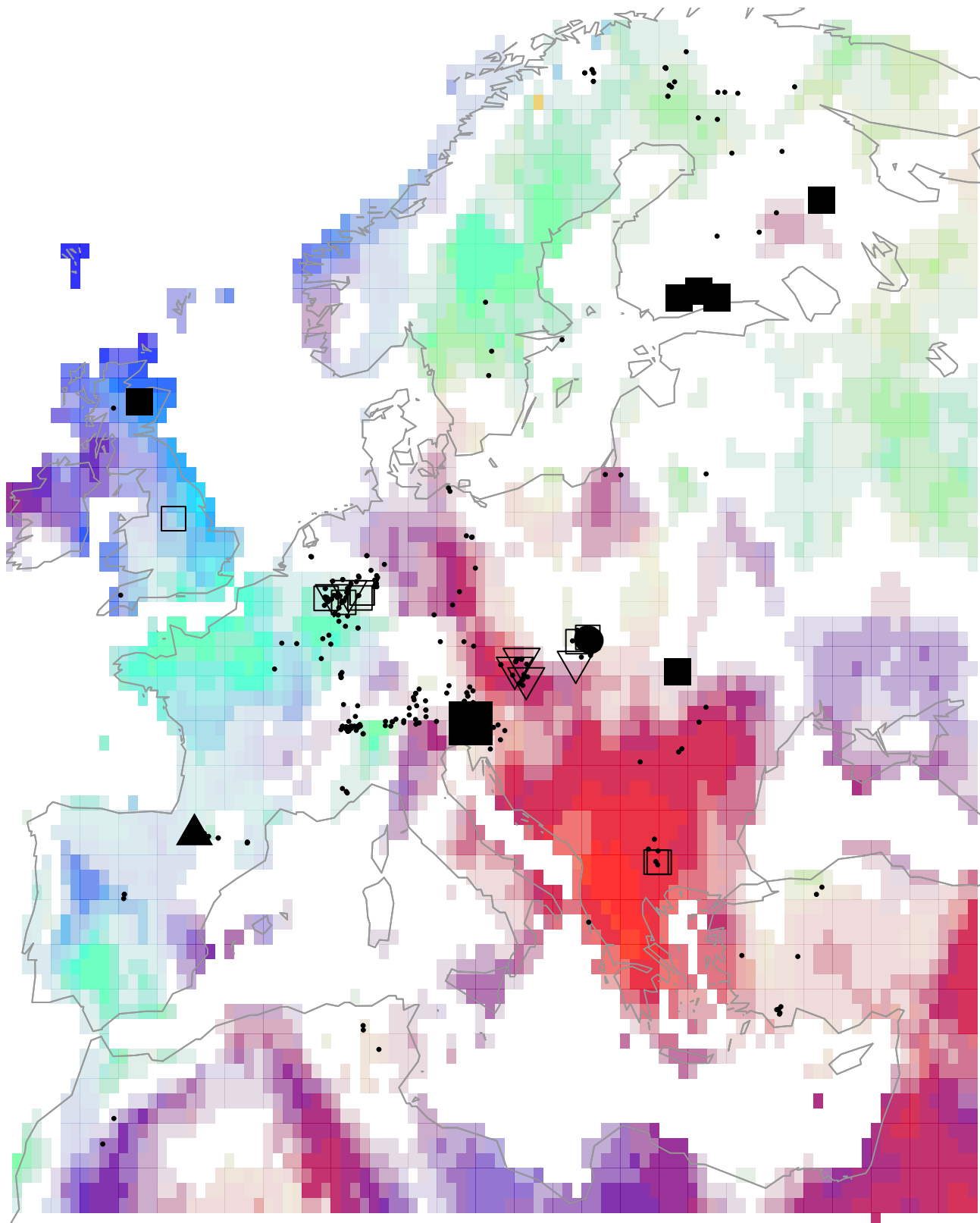
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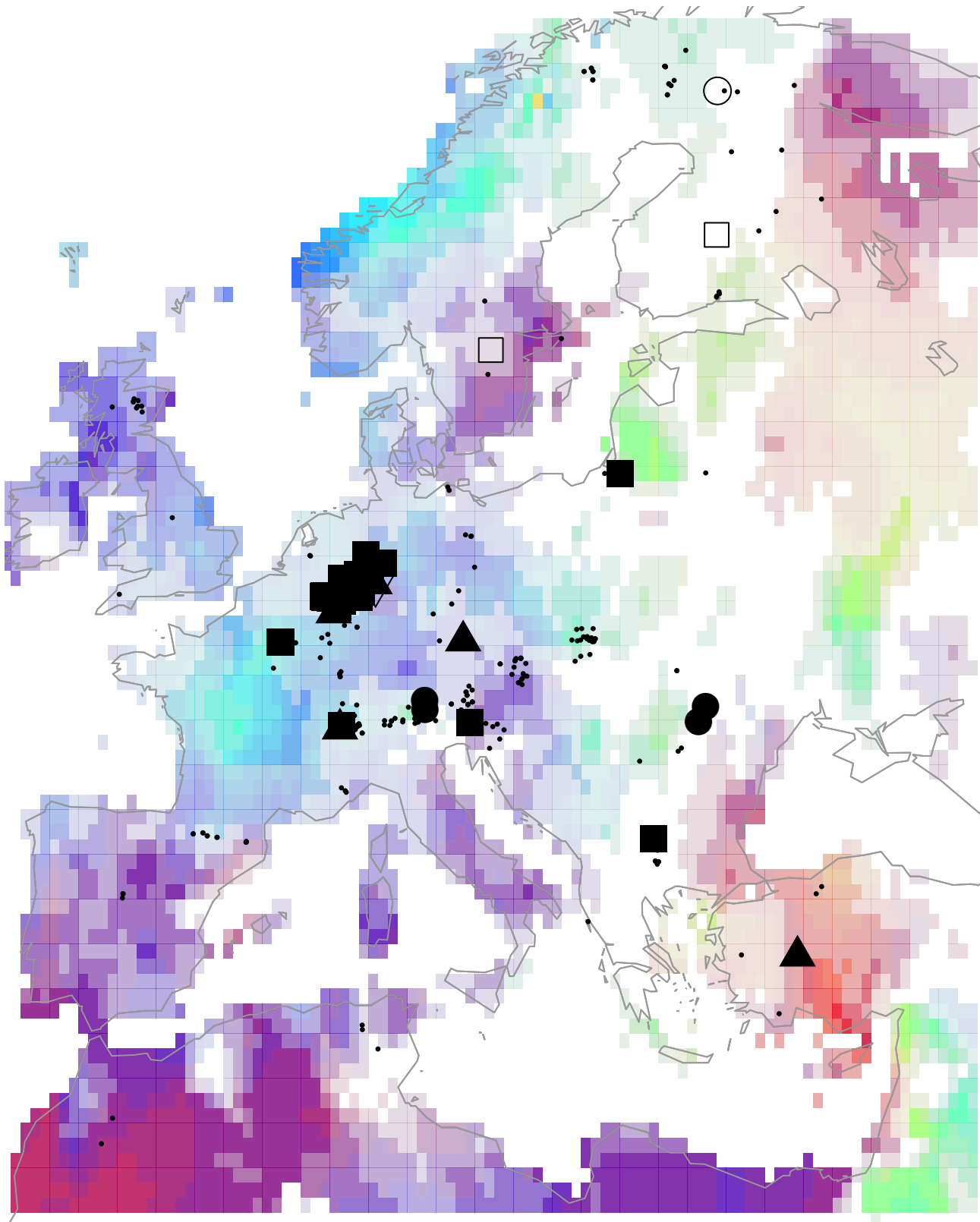
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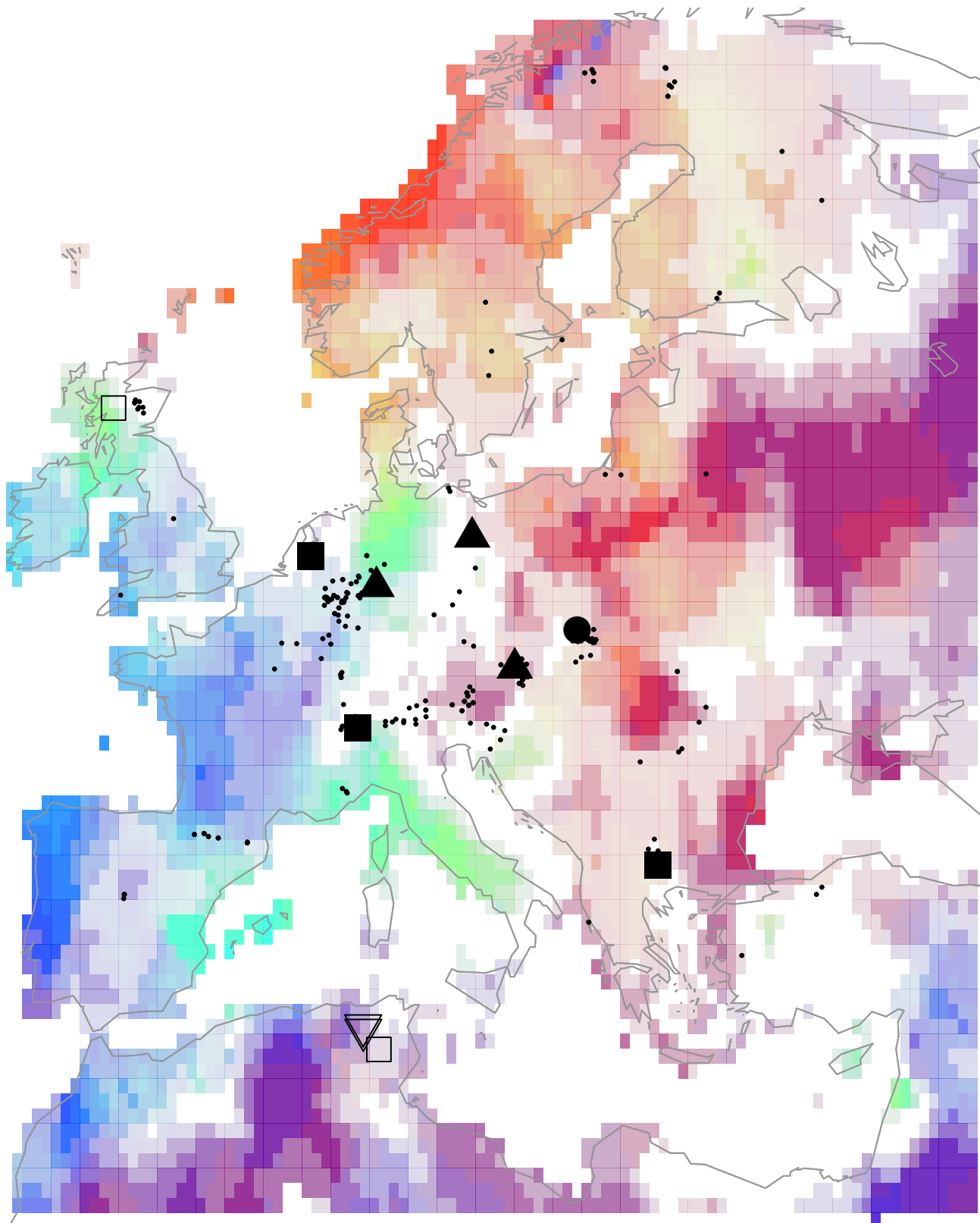
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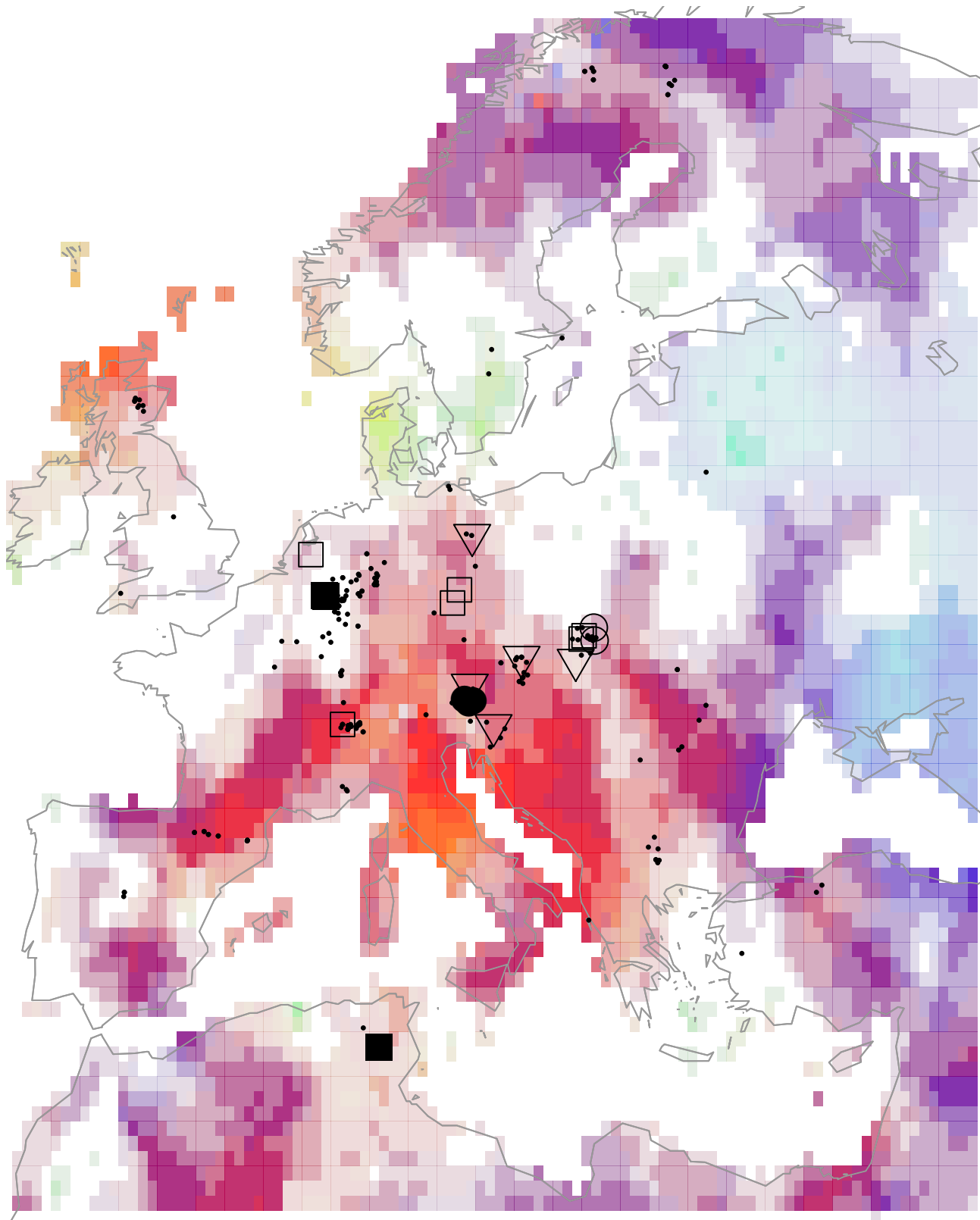
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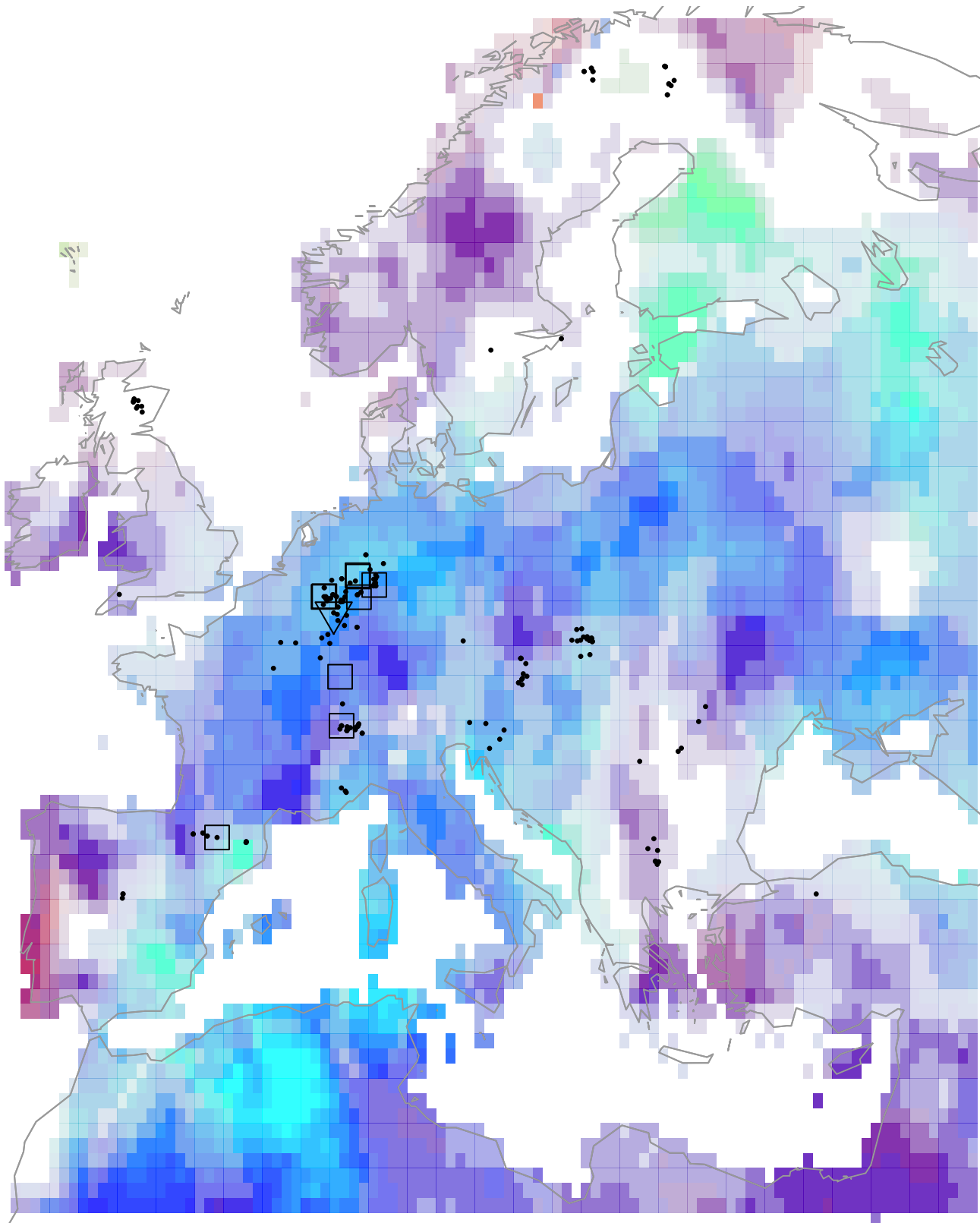
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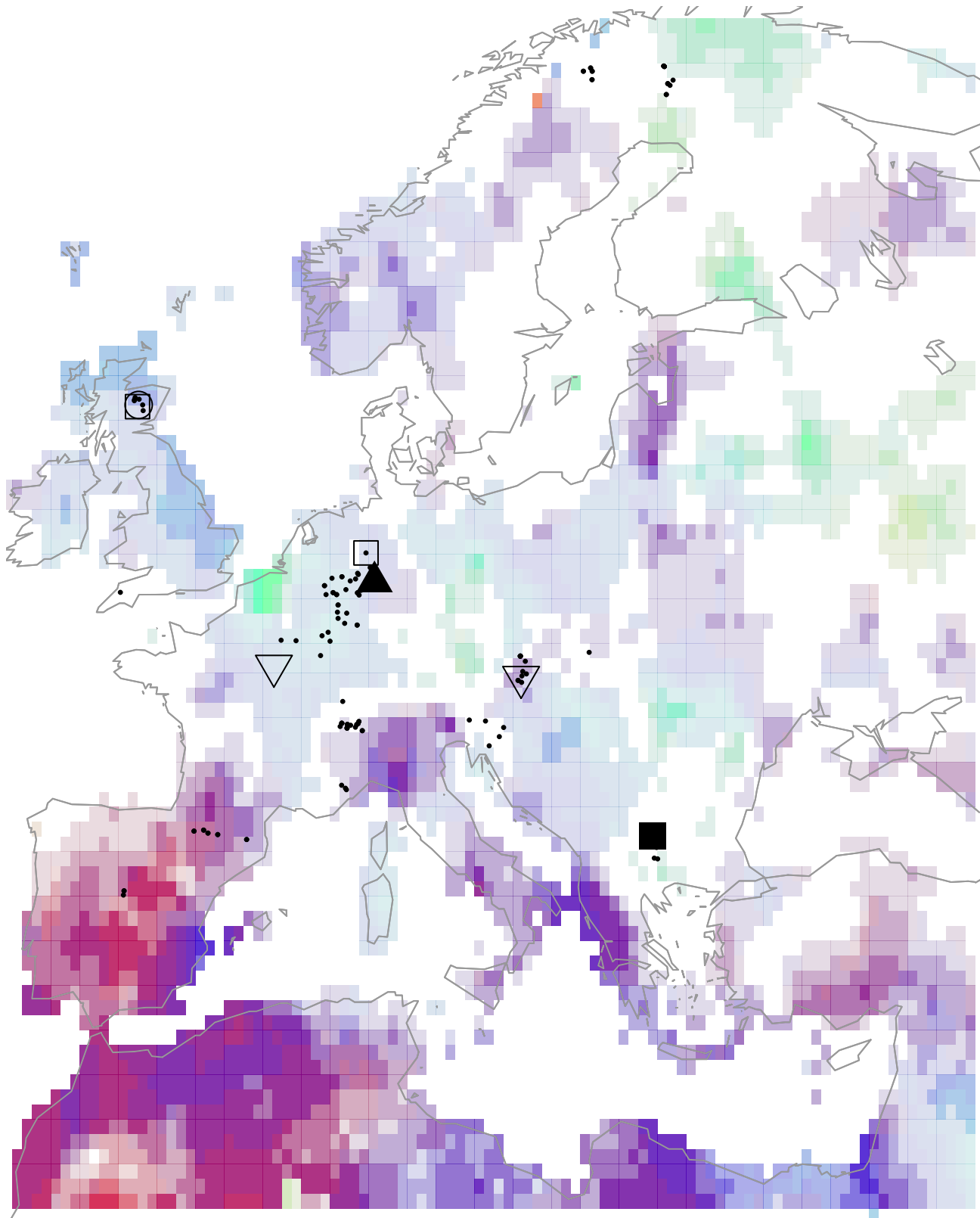
growth and climate anomalies 2003



growth and climate anomalies 2004



growth and climate anomalies 2005



growth and climate anomalies 2006

