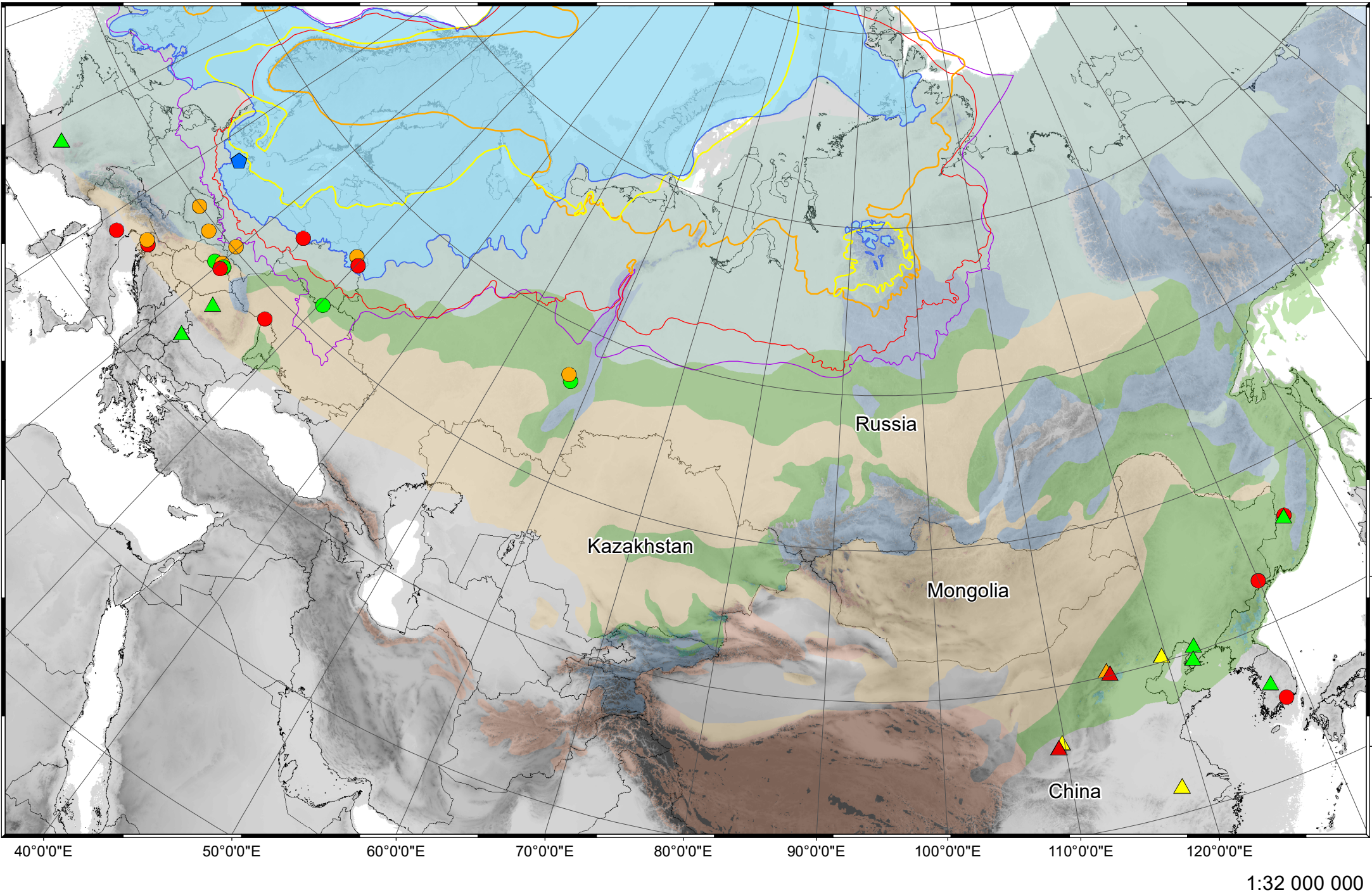


Supplementary Materials S5



A. agrarius fossil records

- Holocene - Meghalayan [4.2 ka-present]
- Holocene - Northgrippian [8.236-4.2 ka]
- Holocene - Greenlandian [11.7-8.236 ka]
- Upper Pleistocene?-Holocene
- ▲ Upper Pleistocene [126-11.7ka]
- ▲ Middle Pleistocene [0.781-0.126Ma]
- ▲ Early Pleistocene - Calabrian [1.8-0.781Ma]
- ▲ Early Pleistocene - Gelasian [2.58-1.8Ma]

LGM biomes
by Lindgren et al. 2018

- alpine forest (-steppe)
- alpine steppe (-desert)
- alpine tundra (-steppe)
- forest (-steppe)
- steppe (-desert)
- tundra (-steppe)

Range of glacials

- Late Weichselian Glaciation (ca. 20 ka, LGM, MIS 2)
- Early/Middle Weichselian Glaciation (ca. 60-50 ka, MIS 3)
- Early Weichselian Glaciation (ca. 90-80 ka, MIS 5)
- Saalian Moscow Glaciation (ca. 140-170 ka, MIS 6)
- Saalian Glacial Maximum (Older Saalian, MIS 8)
- Late Weichselian Glaciation (ca. 20 ka, LGM, MIS 2)
- countries

Figure S5 The range of glacials during the Weichselian and Saalian glaciation and range of biomes during the Last Glacial Maximum, with fossil records of striped-field mouse *Apodemus agrarius* in the Palearctic were based on published data Aguilar et al., 2008; Ivanov, 2016; Izvarin & Ulitko, 2018; Jin & Kawamura, 1996; Kawamura, 1989; Knitlová & Horáček, 2017; Kotsakis et al., 2003; Kowalski, 2001; Popov, 2017; Zhang, Li, Wang, & Gong, 2010.