

SUPPORTING INFORMATION

East Asian pollen database: modern pollen distribution and its quantitative relationship with vegetation and climate

Zhuo Zheng, Jinhui Wei, Kangyou Huang, Qinghai Xu, Houyuan Lu, Pavel Tarasov, Chuanxiu Luo, Celia Beaudouin, Yun Deng, Anding Pan, Yanwei Zheng, Yunli Luo, Takeshi Nakagawa, Chunhai Li, Shixiong Yang, Huanhuan Peng and Rachid Cheddadi

Appendix S1 Supplementary figures

Figure S1 Climate range of the 1748 sampling sites (red crosses) and the modern climate range of the associated areas in East Asia (grey dots, regional grid climate data from Hijmans *et al.*, 2005).

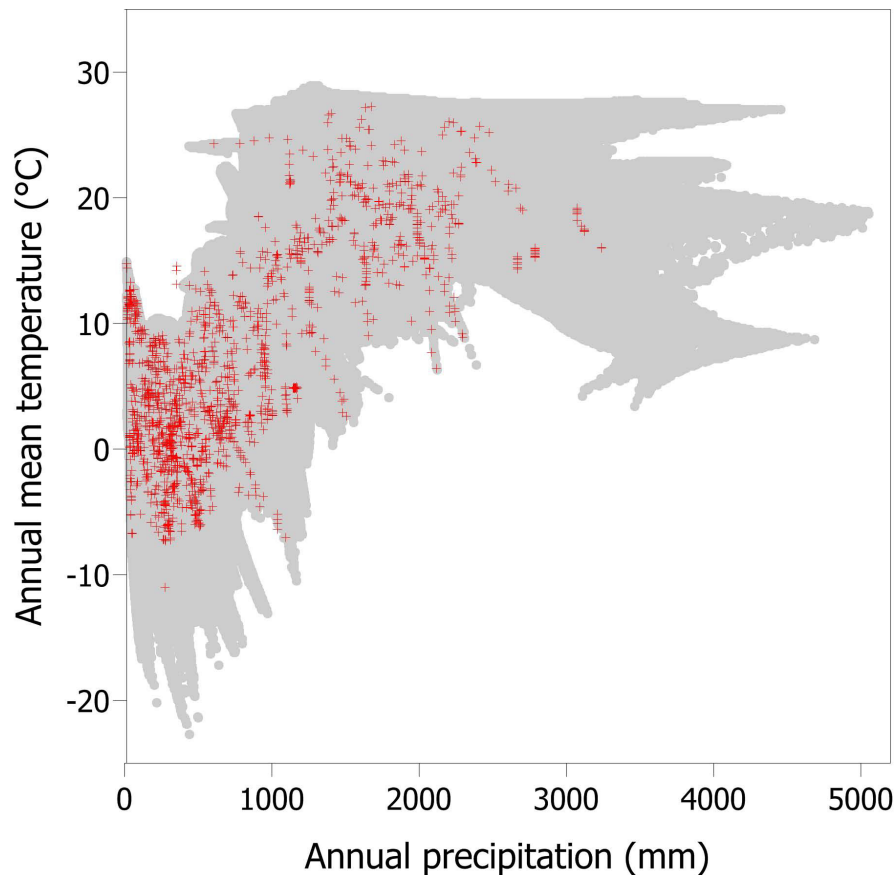


Figure S2 Percentage variation of *Picea* along with its geographical coordinates and altitude in the East Asia sub-continent, showing that pollen sites with >10% for *Picea* have a descending altitude distribution trend towards the north. Two arrows suggest two different distribution patterns of species.

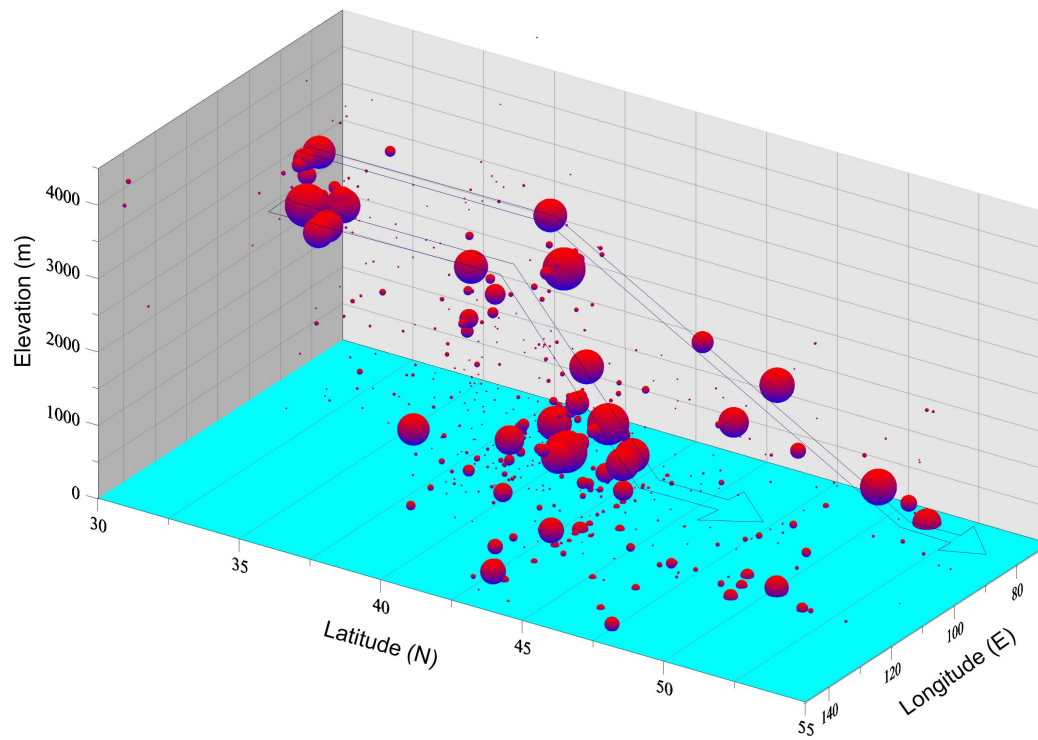
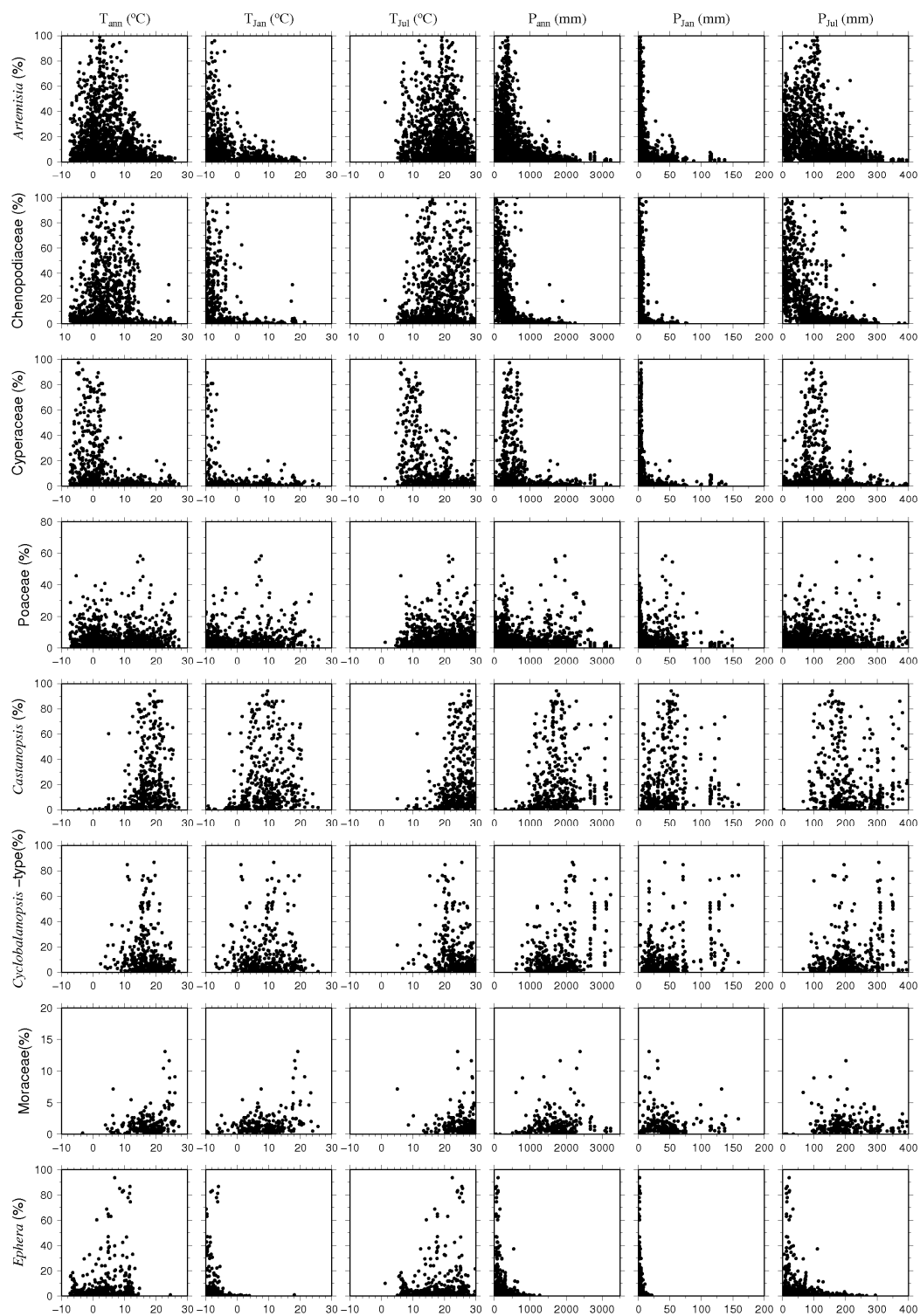


Figure S3 Pollen percentages for the 16 selected taxa related to the climate variables.



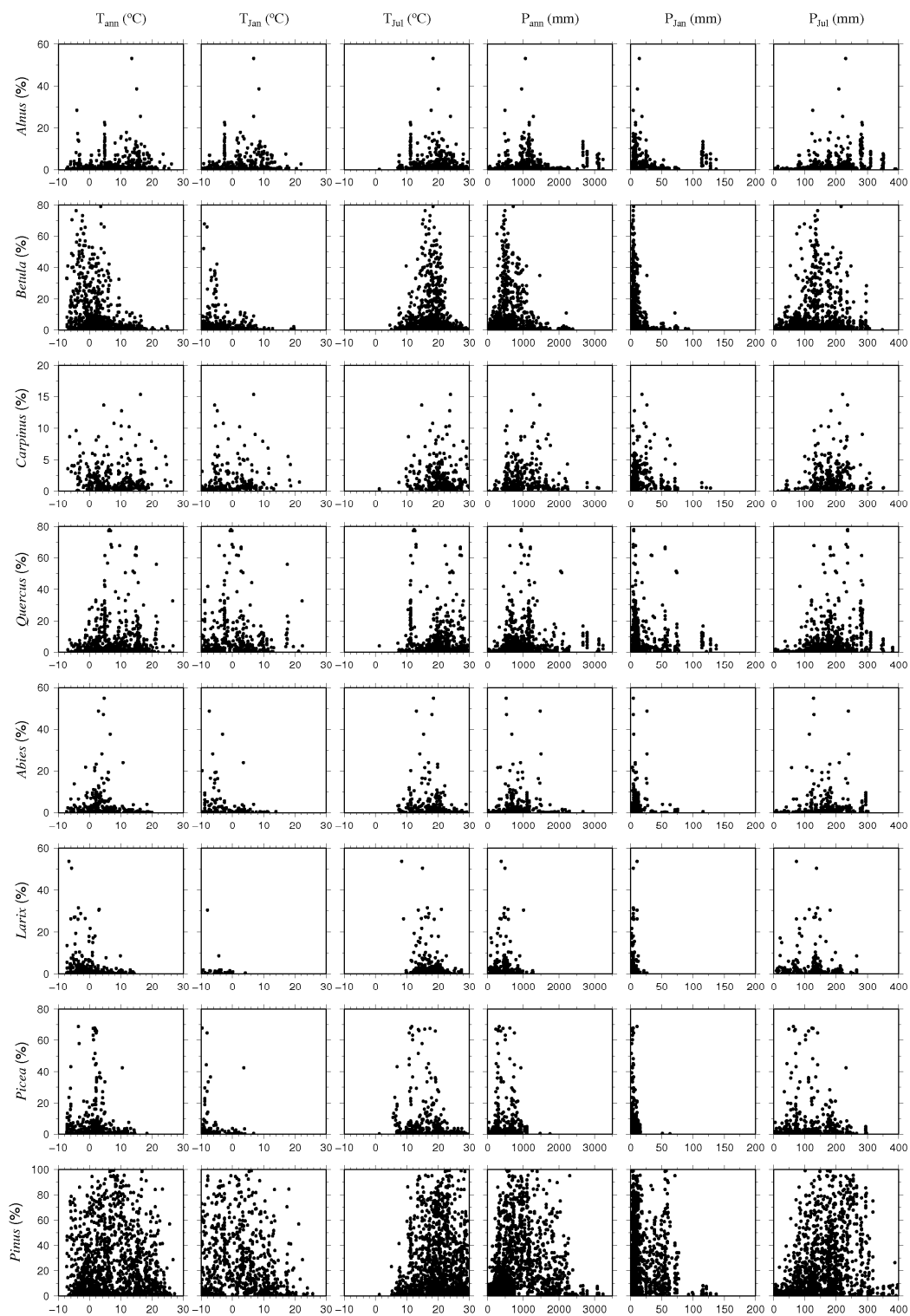


Figure S4 Comparison of the climate thresholds between plant species of *Castanopsis* (climate thresholds with 0.1 and 0.9 confidence are indicated) and the surface pollen percentages.

