**Table A1:** Current minimum and maximum elevation (m a.s.l.; Brako & Zarucchi, 1993; Tropicos, 2017) and elevational range extents (m; computed as maximum minus minimum elevation) of 392 plant species. Further given are the source (either Brako & Zarucchi 1993 “BRAKO”, or Tropicos 2017 “TROPICOS”) and source details (i.e. the “Project” on the “Tropicos”-homepage, from which the elevational information for the respective species were taken) and species-specific mean vertical distances (VD; m). Species-specific mean vertical distances were projected according to five general circulation models (CCSM4, HadGEM2-ES, MIROC 5, MRI-CGCM and NorESM), representative concentration pathway 8.5 and the year 2080. For details on how they were projected, please read the methods in the published article associated with this dataset.