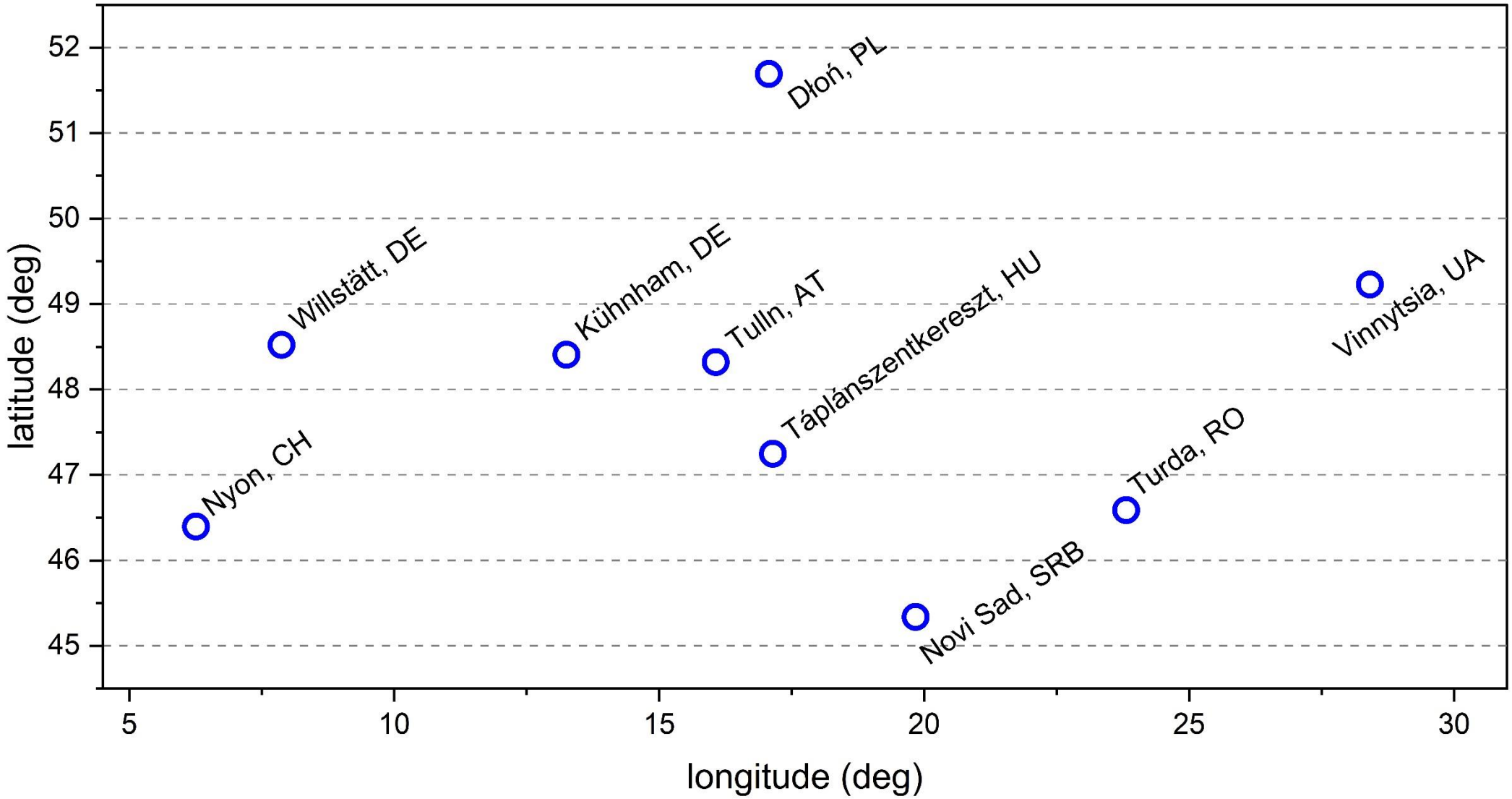
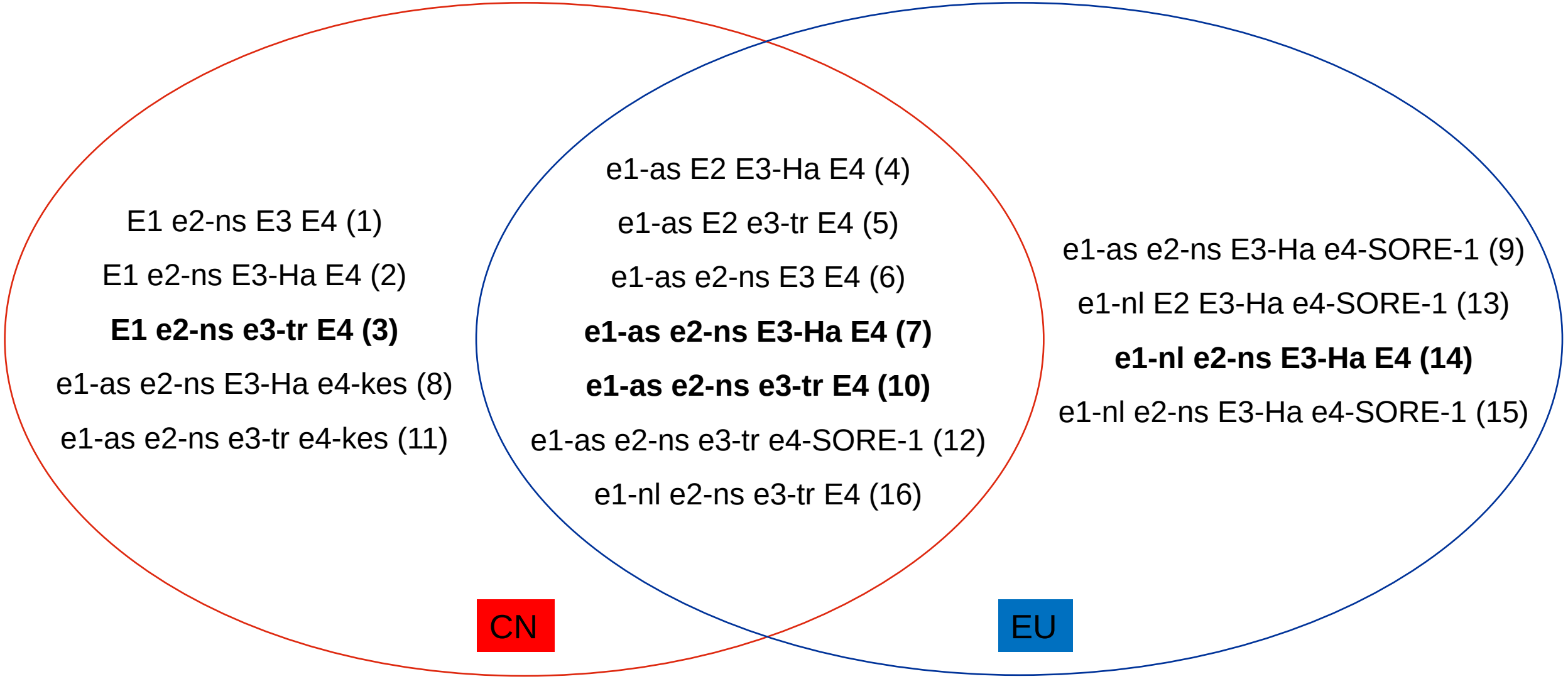
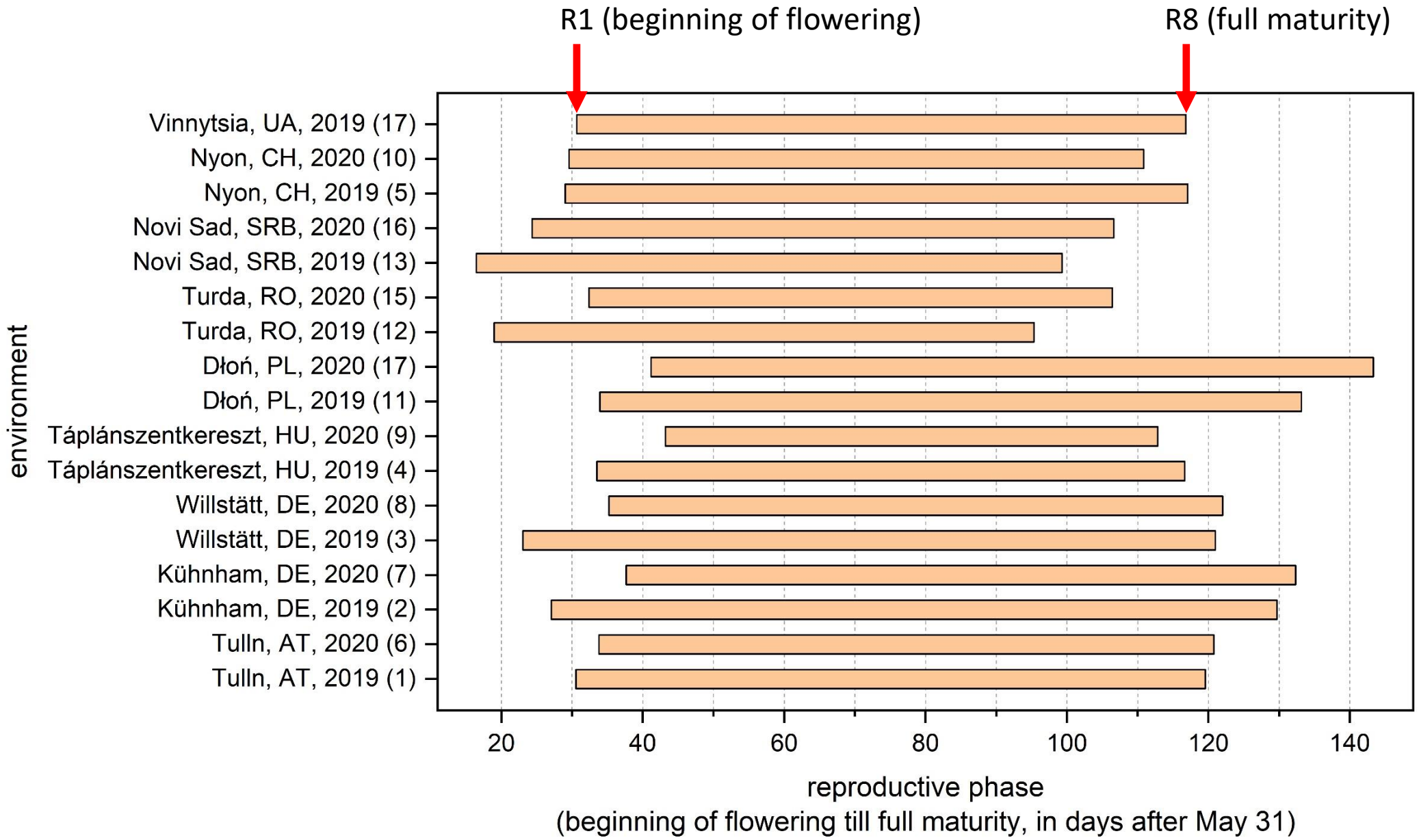


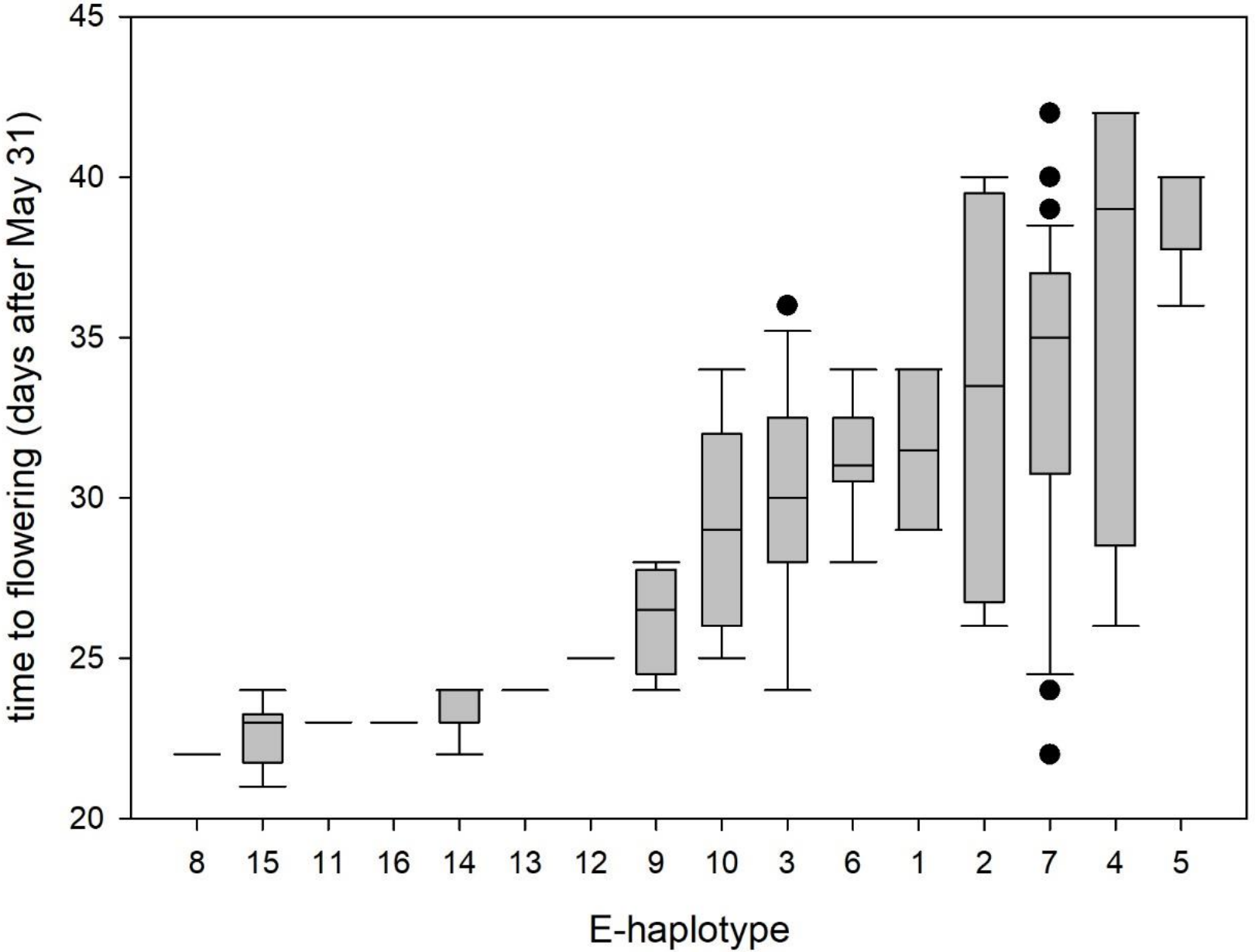
SUPPL. FIGURE 1 Experimental locations (place, country code) for the collection of phenological data.



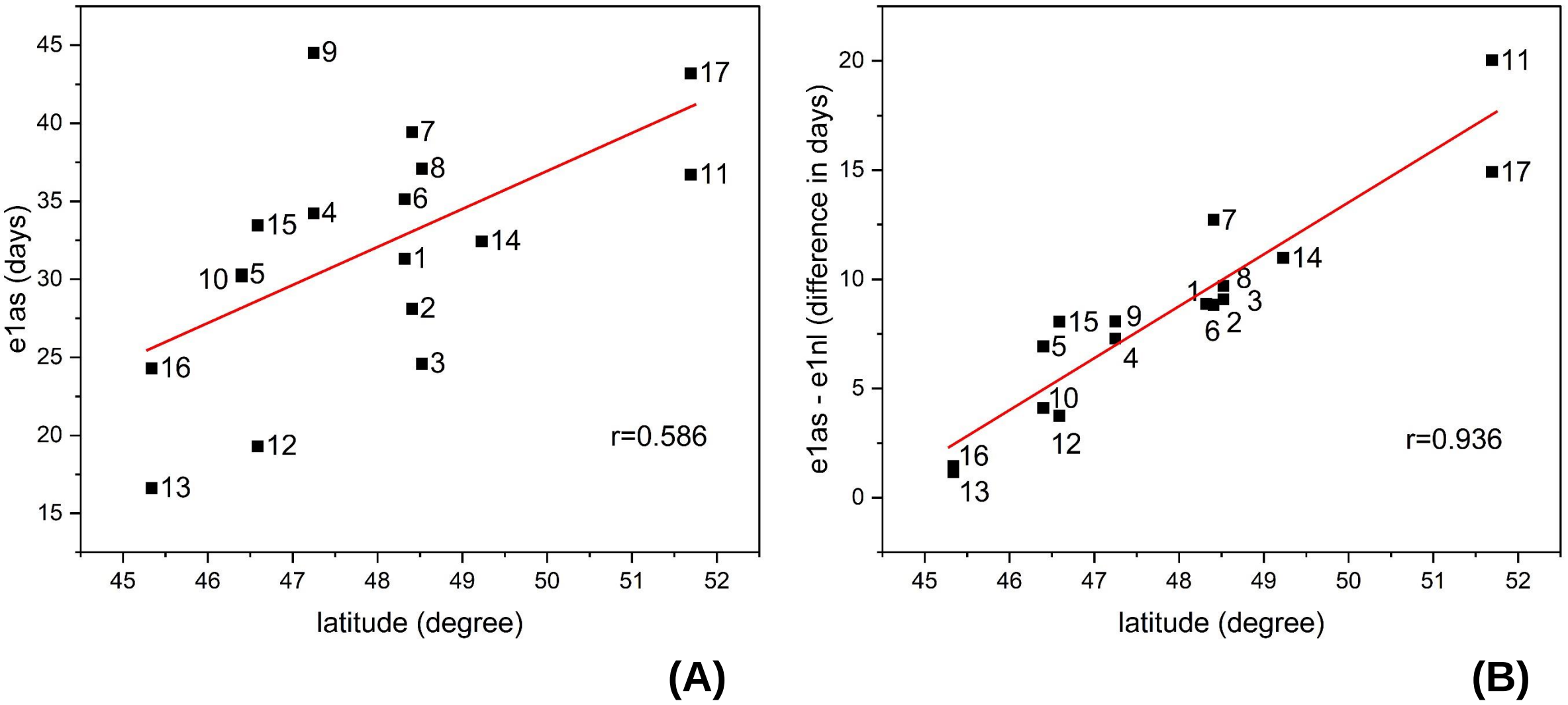
SUPPL. FIGURE 2 Distribution of *E* gene alleles and *E*-haplotypes in Chinese and European cultivars (haplotype no. in parenthesis; most frequent haplotypes in bold).



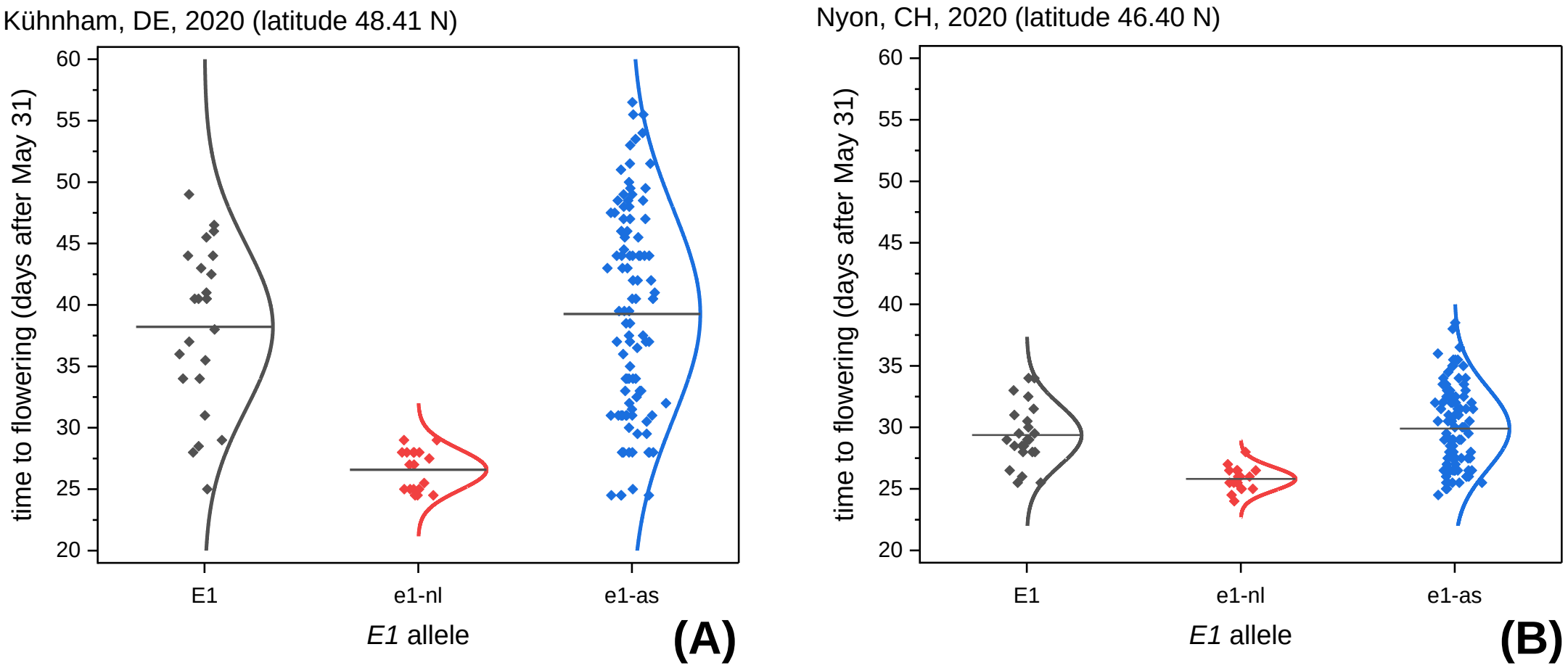
SUPPL. FIGURE 3 Extend of the soybean reproductive phase in each of 17 environments (based on genotype means within environment).



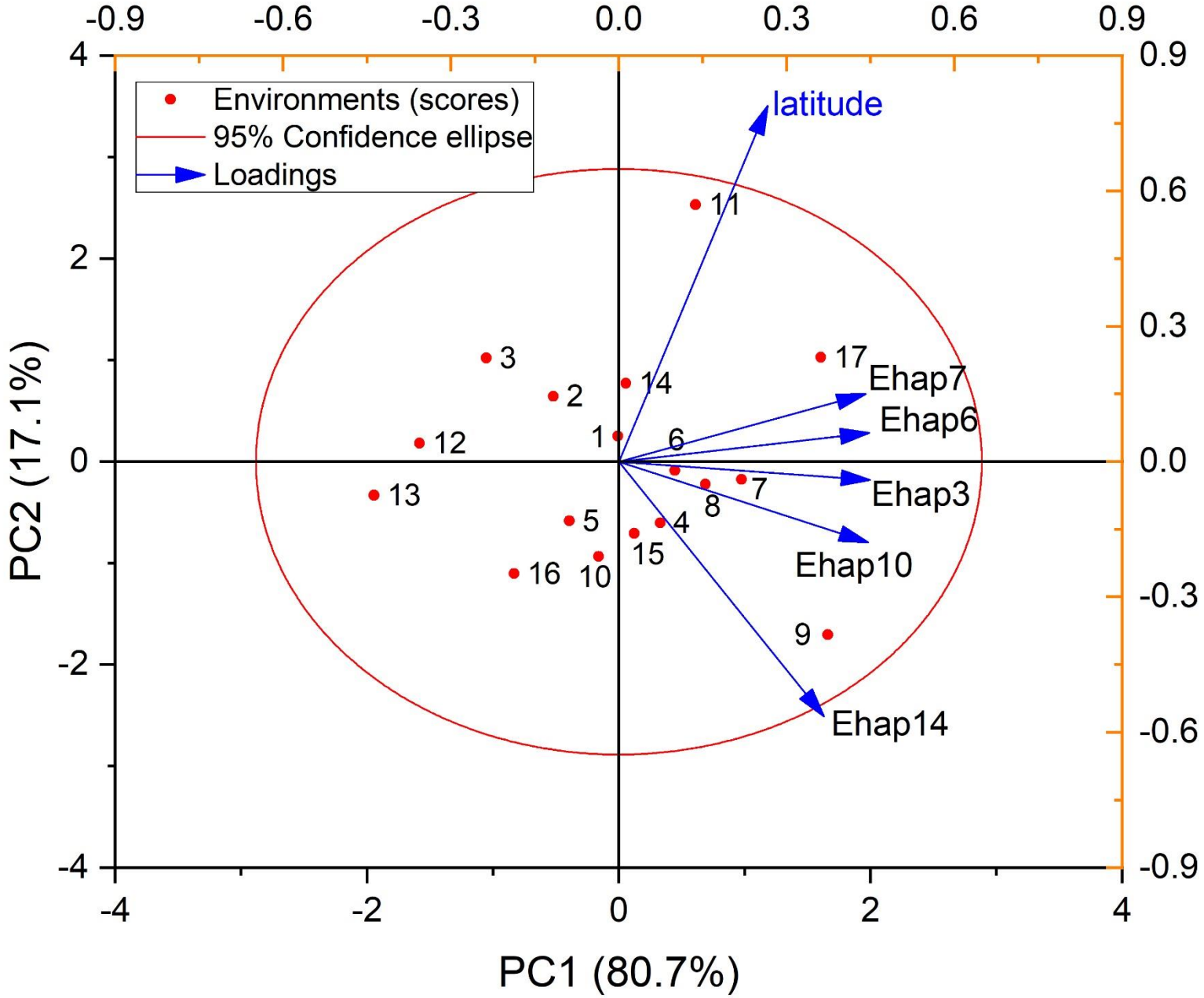
SUPPL. FIGURE 4 Time to flowering of soybean cultivars as affected by the *E*-haplotype (genotype mean data across all 17 environments).



SUPPL. FIGURE 5 Correlation between latitude (degree N) and time to flowering for the *e1-as* allele (A) and for the allelic difference between *e1-as* and *e1-nl* (B) over 17 environments (see Table 2 for environment codes).



SUPPL. FIGURE 6 Distribution of time to flowering across all cultivars as affected by the E1 allele at a higher (A) and a lower (B) latitude environment.



SUPPL. FIGURE 7 PCA bi-plot of the five major *E*-haplotypes and latitude for time to flowering in 17 environments (see Table 2 for environment codes and Suppl. Table 5 for *E*-haplotype descriptions).