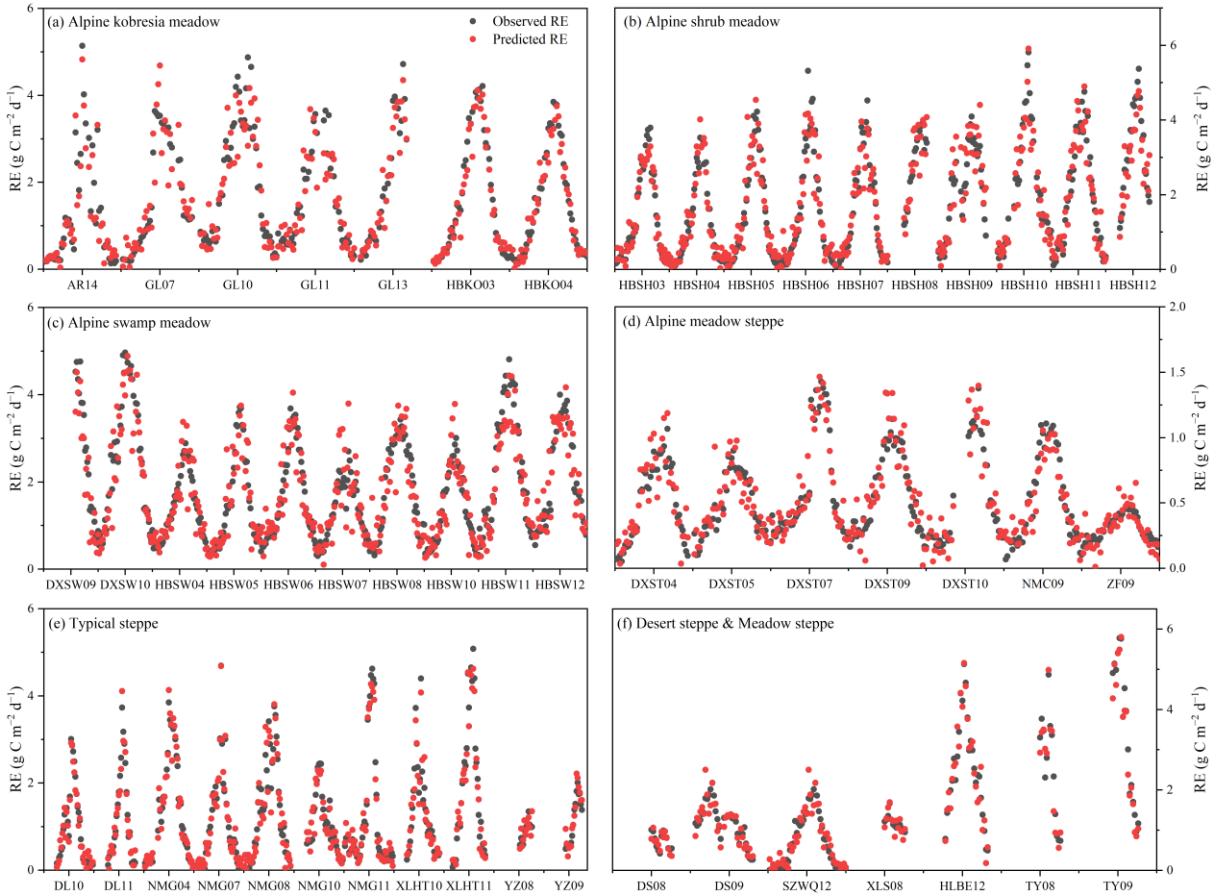


Figure S1. 8-day time series plots for the observed (black round dot) and the predicted (red round dot) RE at all sites. The text in the abscissa represents the abbreviation of the site name, and the following number represents the year. The abscissas include all sites in each grassland subtype, and not all sites cover a full year.

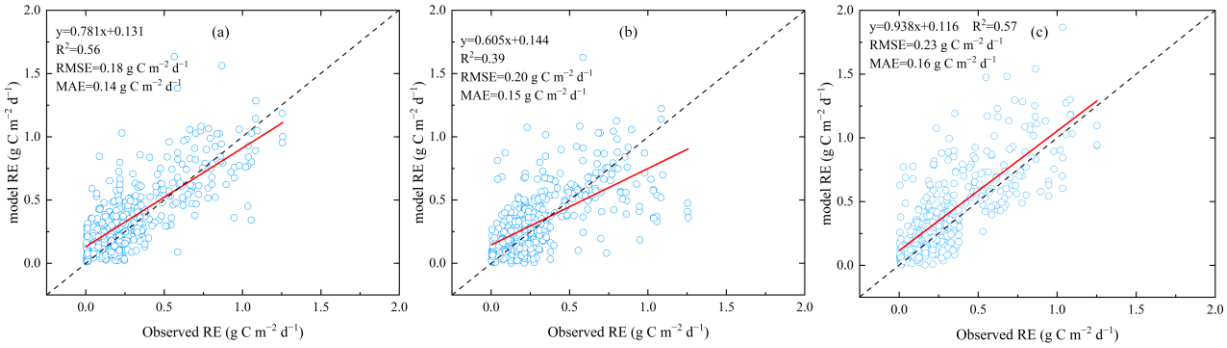


Figure S2. Predicted RE vs. observed RE in the low value period in the non-growing season. (a) All the input variables (i.e., VT, Ta, PAR, EVI, PRE, SOCD and SoilTex) were added to the model. (b) SOCD was removed from the input variable. (c) SoilTex was removed from the input variable.

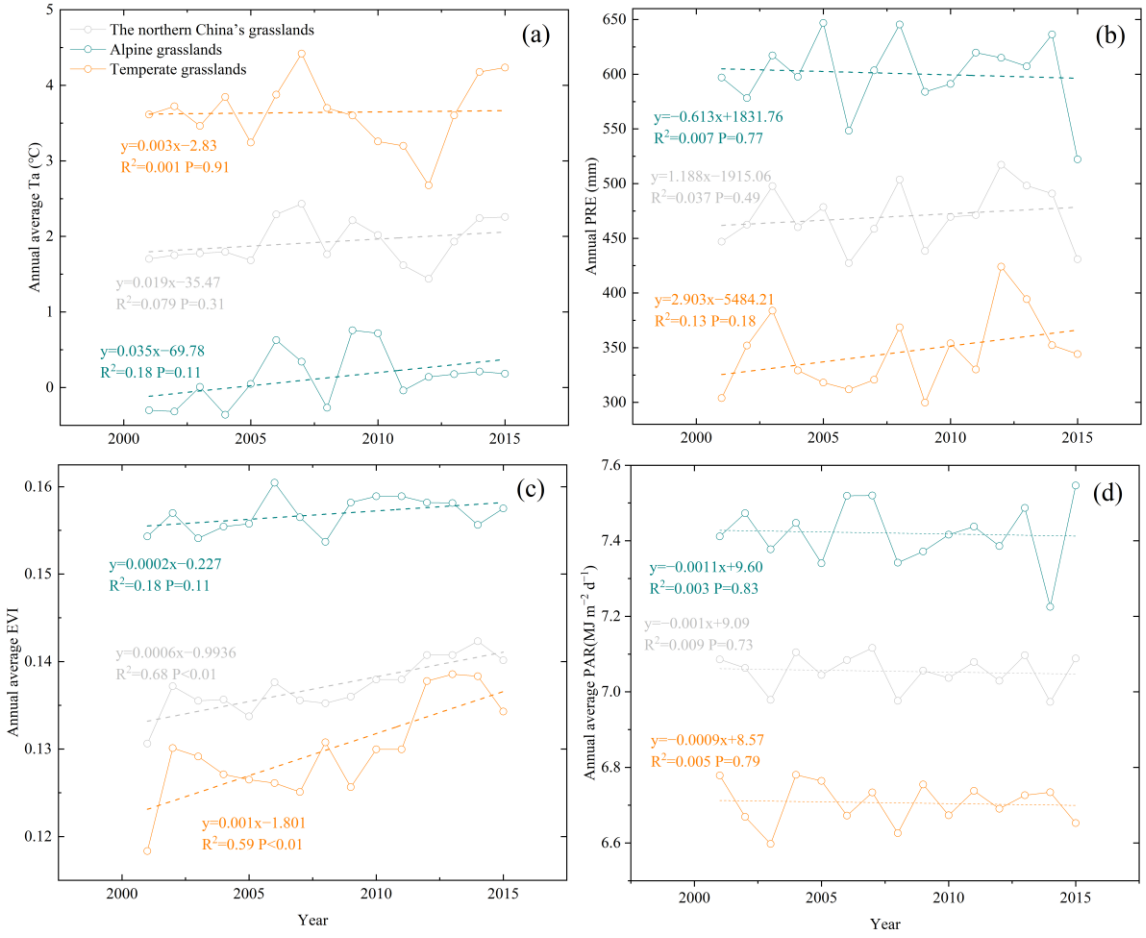


Figure S3. Interannual dynamics of annual average Ta (a), annual total PRE (b), annual average EVI (c) and annual total PAR (d) from 2001–2015 at the regional scale.