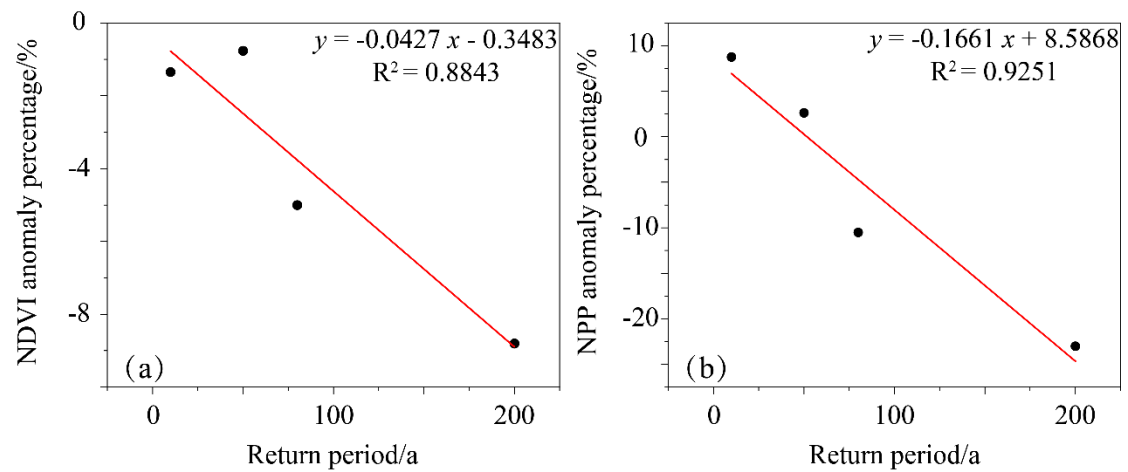**Figure S1.** Precipitation-based (a) and temperature-based (b) univariate return period in Southwest China and their corresponding years (black text).

Figure S2. The quantitative relationship between return period of concurrent events and NDVI (a) and NPP (b) anomaly percentages