

Fig.1 The location of Haibeistation(a), study sites(b) and lysimeter system (c)

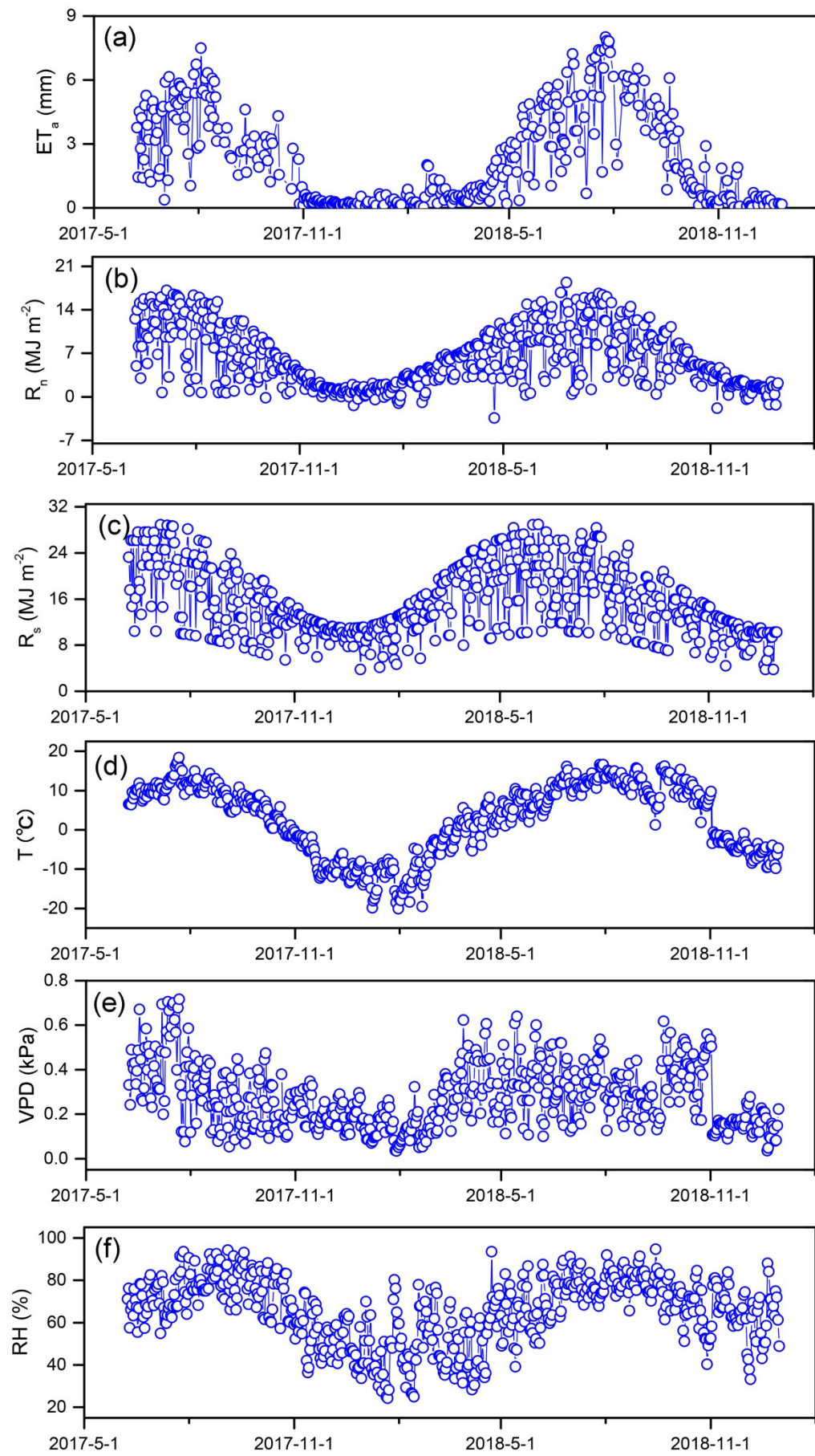


Fig.2 The seasonal variation of measured ET and main environmental variables. Note:  $R_s$  represent total radiation;  $R_n$  represent net radiation;  $T$  represent mean air temperature; VPD represent vapor pressure deficit; RH represent relatively humid.

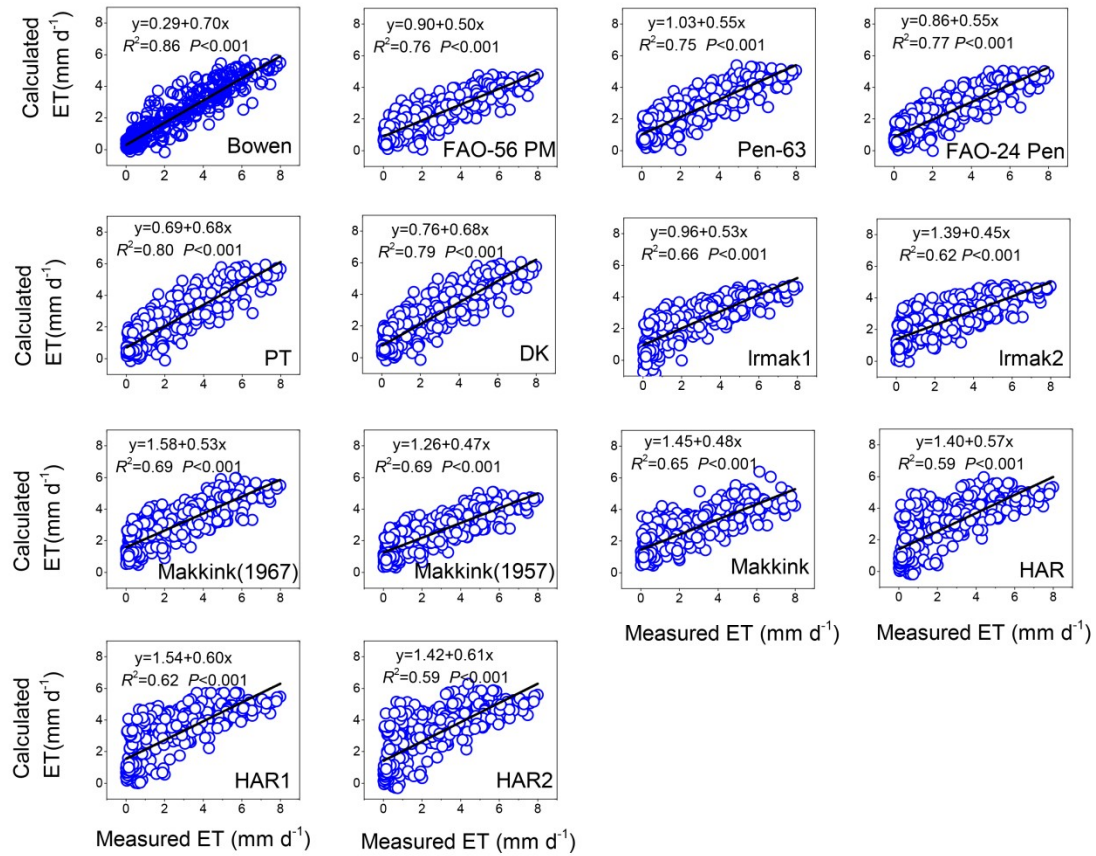


Fig.3 The relationship between daily  $ET_0$  of model estimates and lysimeter measurements during the whole study period (data points = 393)

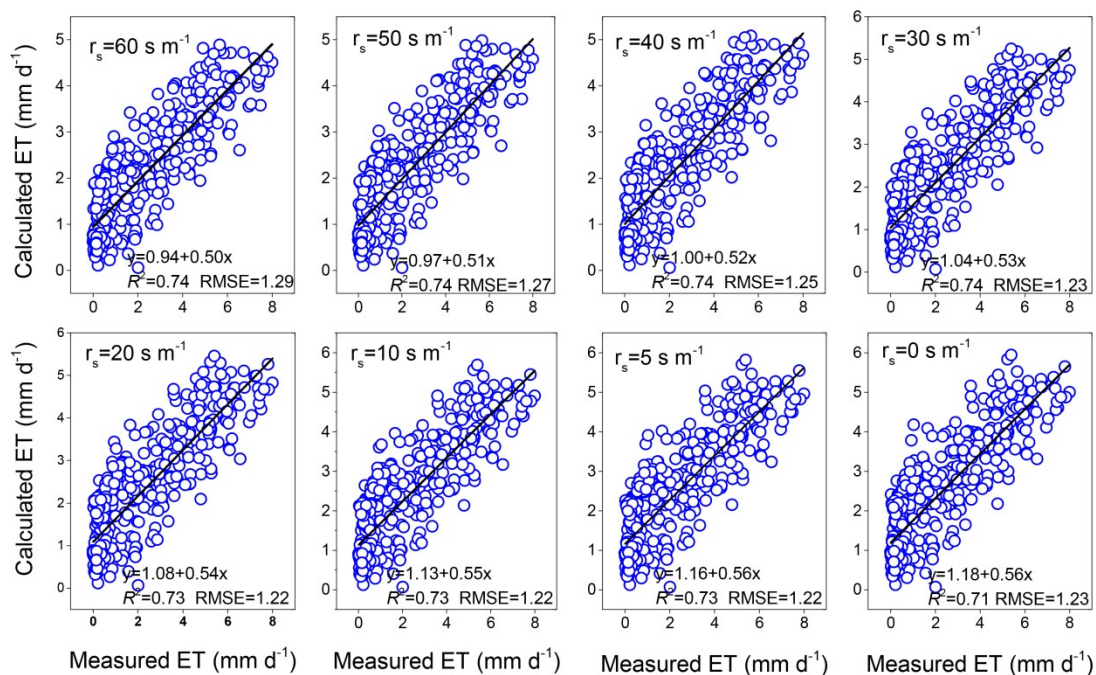


Fig.4 Effect of different surface resistance on daily estimates of the FAO56 Penman-Monteith

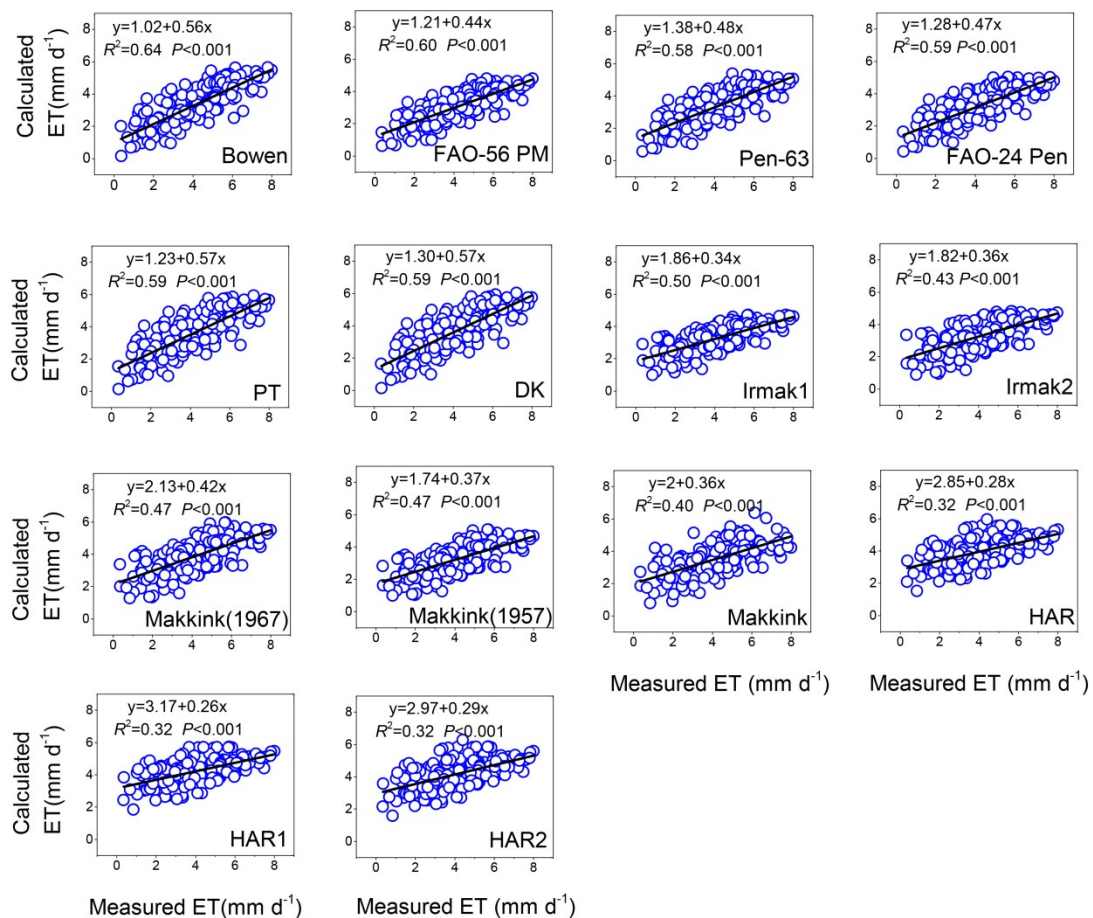




Fig.5 The relationship between daily  $ET_0$  of model estimates and lysimeter measurements during growing season (data points = 181)

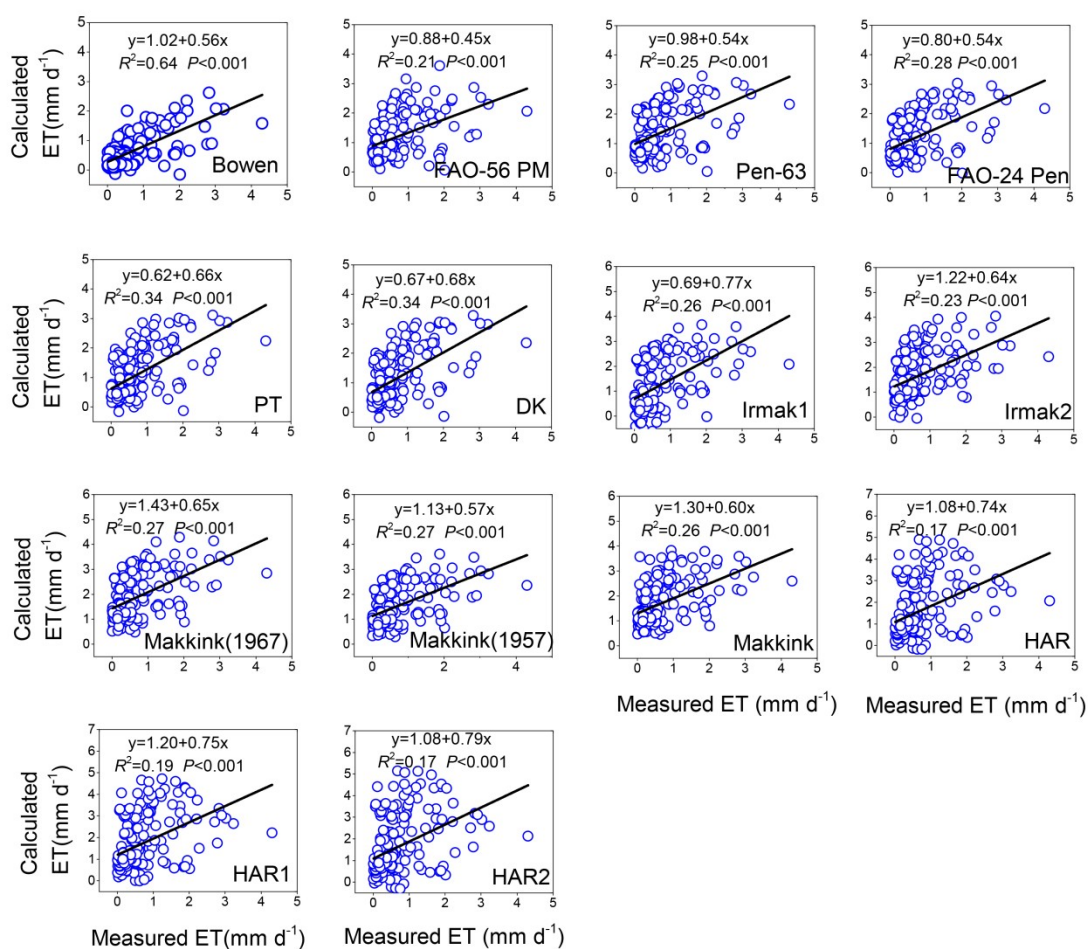


Fig.6 The relationship between daily  $ET_0$  of model estimates and lysimeter measurements during non-growing season (data points = 143)

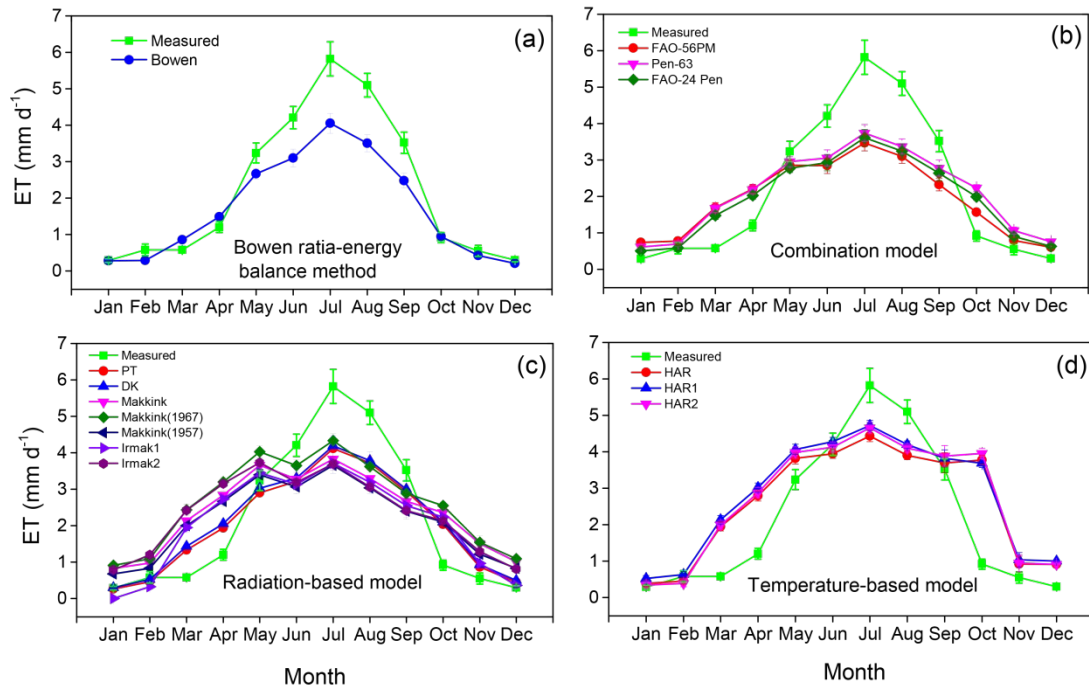


Fig.7 The comparison of monthly mean daily ET<sub>0</sub> between lysimeter measurements and model estimates

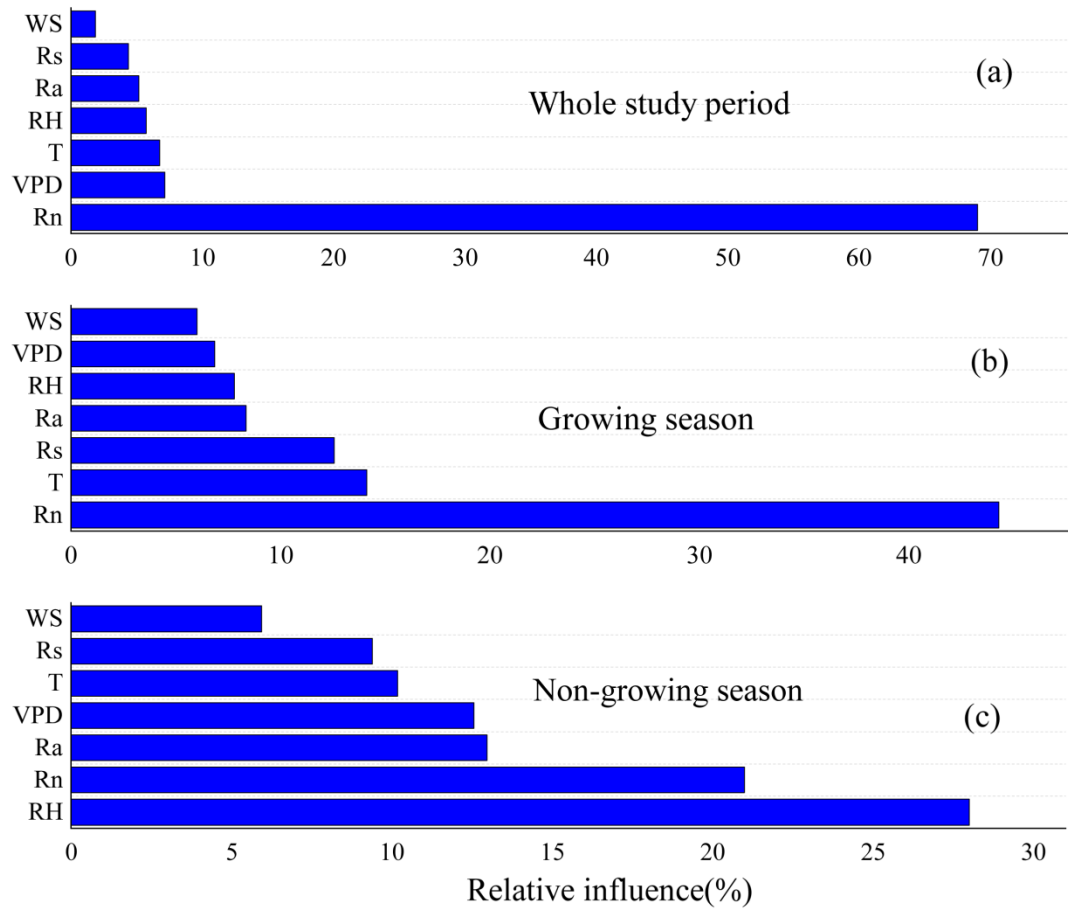


Fig.8 The relative influence of meteorological factors on ET<sub>a</sub>, Note: WS: wind speed; TD: the

difference value between maximum air temperature and the minimum air temperature;  $G$ : soil heat flux;  $R_a$ : extraterrestrial solar radiation;  $R_s$ : total radiation; VPD: vapor pressure deficit; RH: relative humid;  $T$ : mean air temperature;  $R_n$ : net radiation