

Fig.1 The Shiyang River Basin, in the east of Qilian Mountains, showing location of oasis agricultural irrigation area and sampling points

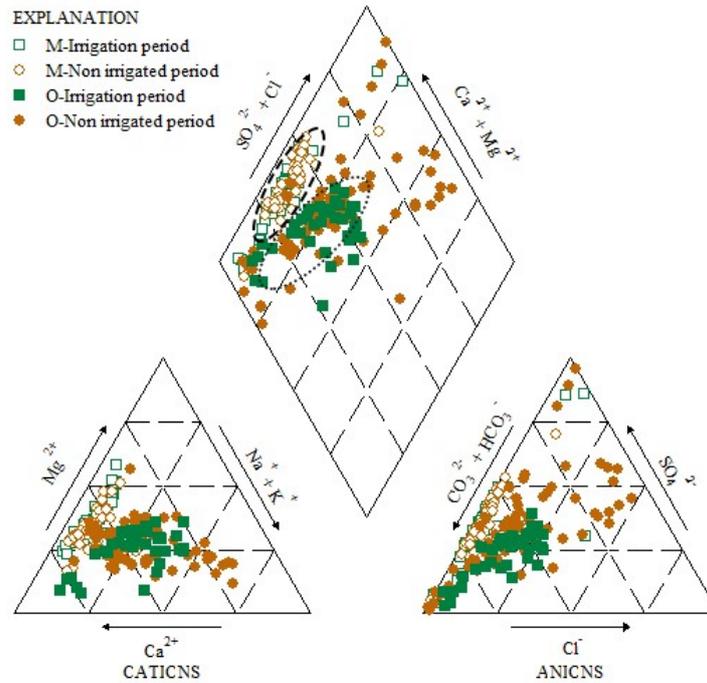


Fig.2 Piper diagram of ion composition of irrigation water in different regions and periods

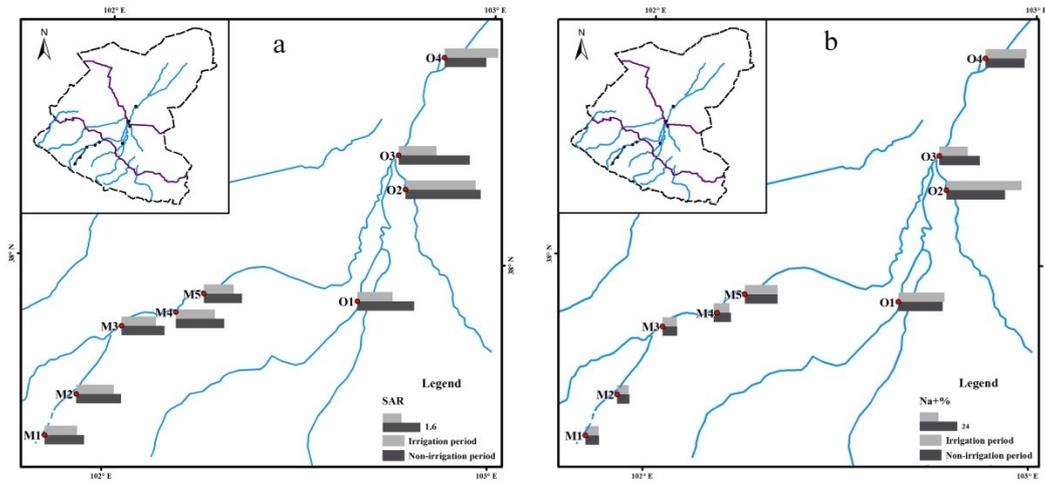


Fig.3 Spatial variation trend of SAR (a) and $\text{Na}^+\%$ (b) during irrigation and non-irrigation periods

in Shiyang River Basin

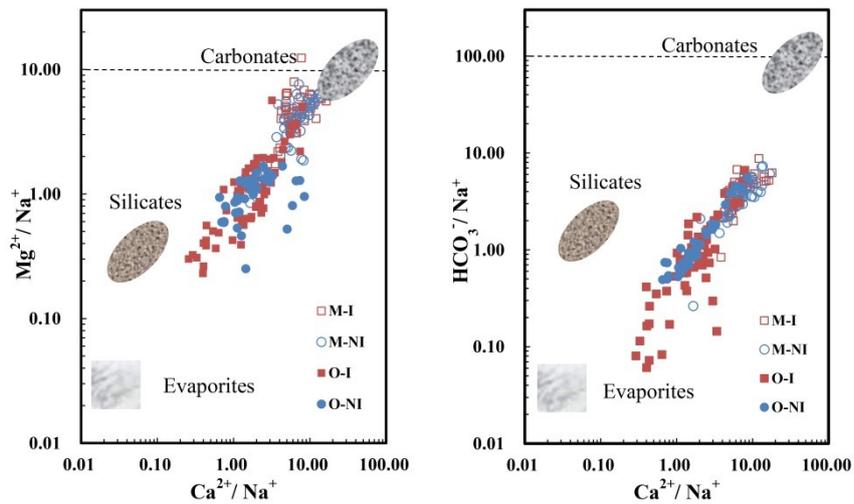


Fig.4 End-member mixing diagram of Shiyang River Basin in irrigation and non-irrigation periods

normalized by sodium ion equivalent concentration

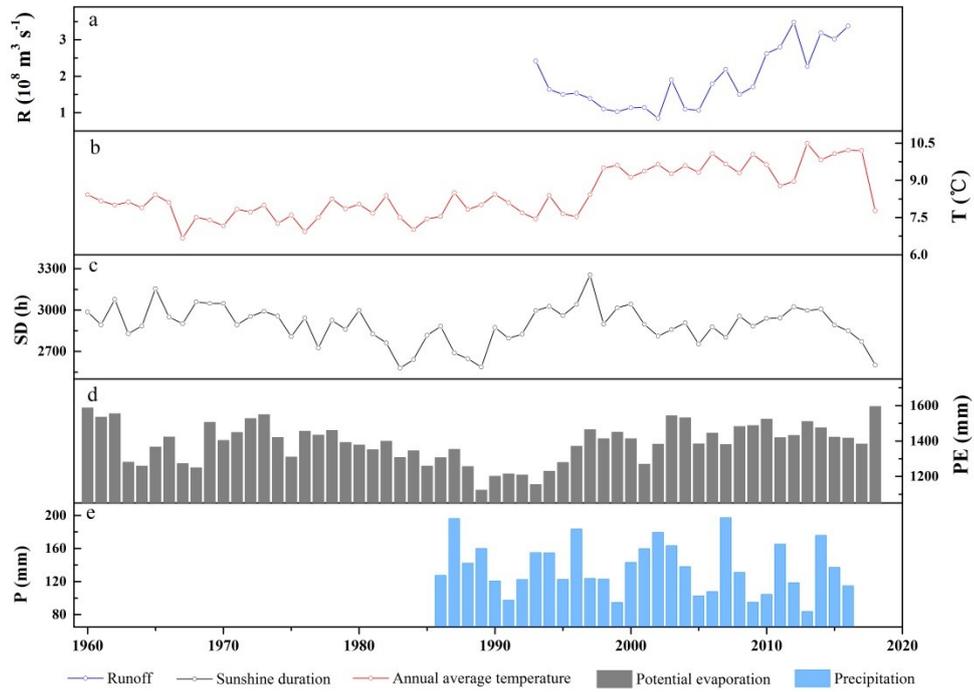


Fig.5 Runoff (a), temperature(b), sunshine duration (c), potential evaporation(d) and precipitation (e) variation diagram of Shiyang River Basin (Wuwei meteorological station) (runoff data: 1993-2016; precipitation data: 1986-2016; temperature, sunshine duration and potential evaporation: 1960-2018)