

**Table S1** Previous studies on the dominant climatic factors of vegetation productivity variations at different time scales on the Qinghai–Tibet Plateau ('-' represents no study results).

<b>Vegetation Types or Entire Area</b>	<b>Dominant Climatic Factor</b>	<b>Dominant Period</b>	<b>References</b>
QTP/TRH	Precipitation	Annual/Growing season	[18,20,95,96,140,141]
	Temperature	Annual/Growing season	[17,22,70,92–94,142,143]
		Spring	[23,142,144]
		Summer	[23,142]
Meadow	Precipitation	Annual/Growing season	[141,145]
		Spring	[141]
		Summer	[141]
		Fall	-
	Temperature	Annual/Growing season	[19,22,29,142]
		Spring	[15,19,142]
		Summer	[22,29,142]
		Fall	[22,142]
Steppe	Precipitation	Annual/Growing season	[19,22,146]
		Spring	[19,142]
		Summer	[15,29]
		Fall	[15]
	Temperature	Annual/Growing season	[22]
		Spring	[142]
		Summer	[29,142]
		Fall	[22]
Shrub	Precipitation	-	-
	Temperature	Annual/Growing season	[22]
		Spring	[22]
		Summer	[22]
		Fall	[22]