

CEE 274: CLIMATE DATA ANALYSIS

Homework 2

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The climate data series were shown in Table 1 and Table 2.

The Mann Kendall Test result of Annual Monthly Precipitation Maxima (AMP-Max), Annual Precipitation (AP), Annual Monthly Temperature Maxima (AMT-Max), Annual Monthly Temperature Minima (AMTMin) and Annual Temperature (AT) at different significant levels were shown in Table 3.

Results revealed that all the data series showed no decreasing or increasing trend at significant levels of 0.01 and 0.05. The annual precipitation showed increasing trend at significant level of 0.1 while other variables showed no significant trend.

Table 1: Precipitation Data Series

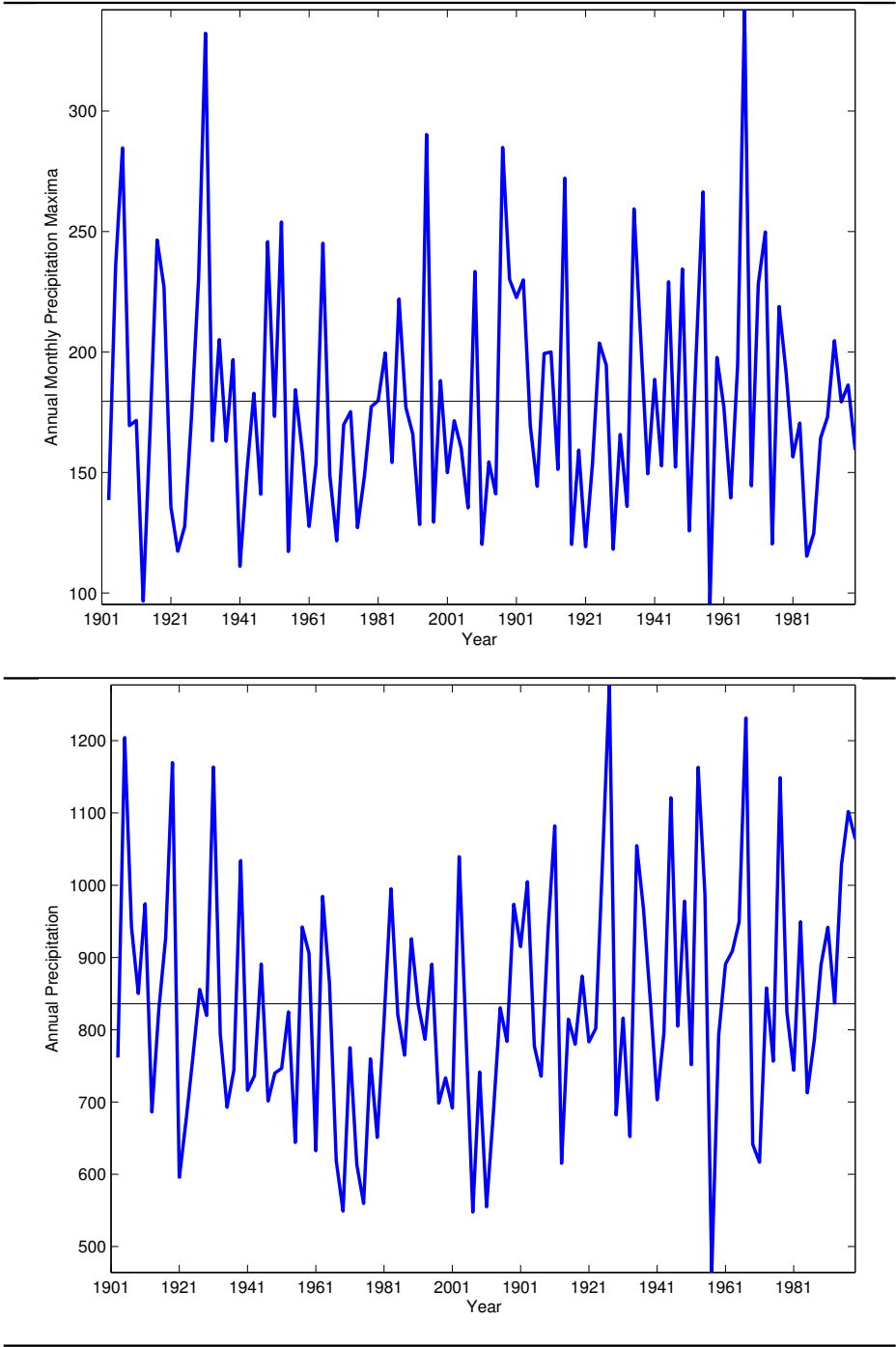


Table 2: Temperature Data Series

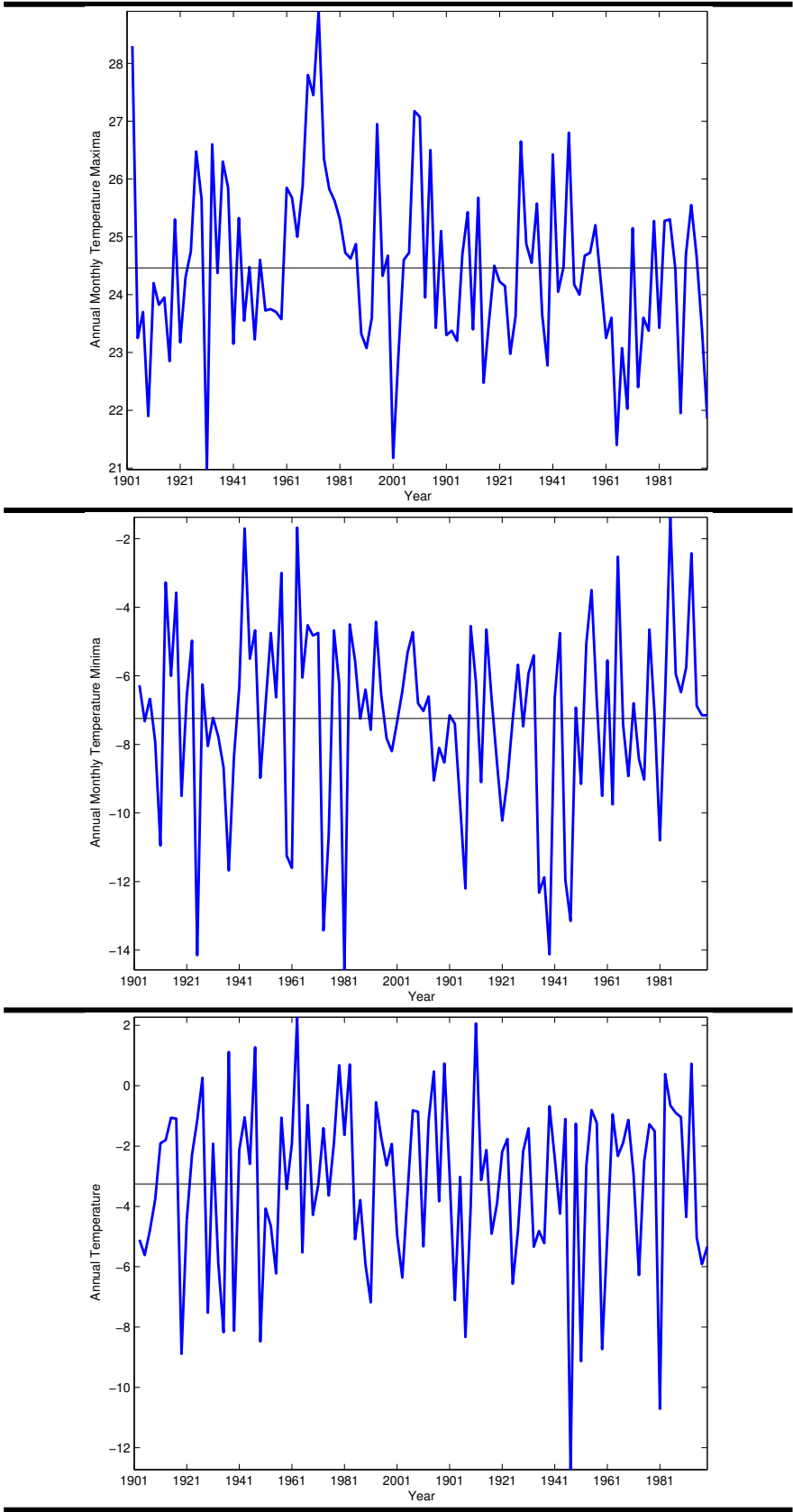


Table 3: Man Kendall Test of Climate Data Series

Term	Significance Level		
	0.01	0.05	0.1
AMPM _{ax}	0	0	0
AP	0	0	+
AMT _{Max}	0	0	0
AMT _{Min}	0	0	0
AT	0	0	0