



(a) Graph of time shifted temperature data.  
 (b) Distribution of the correlations generated during sampling

Figure 1

Figure 1 (a) shows the data as it was recorded at time  $t$  against a time shifted ( $t+1$ ) version of that same data. This is done to see if a previous years temperature can be show with this data to not be independent. The correlation of the data sampled 10000 times randomly without replacement is show in the histogram (Fig. 1 (b)). Looking at the distribution, that there is little correlation between the randomly sampled data.