1.(c) List any errors identified

There are few errors identified as errors:

Total of 6 observation as found to be an erro

1. Three observation have date as 31 but the month does not contains 31st date in that month

2. one date is wrong which is 42.

3. The observation in the year column is one in 1910 and other is 2016\*/

2. (b) Create a time series plot of the data and comment (briefly - one to two sentences) on the effects (or not) of season, cycle and trend.

from the Graph presented above we could find that there is increase in trend till 1974.

then it follows a trend but there is slight decrease in the year 1983 might be due to error

and then the trend is same and there is presence of seasonal component in the graph

3 (c) Comment on autocorrelation in the data

lag1 are highly correlated with depth

lag2 is moderately correlated with depth

lag3 and lag 4 is not correlated with depth