

The Proposal and the Paper

1. Due on March 17, or earlier, is a 1-2 page Proposal setting down -

- a) a brief description of the data set you intend to analyse for the Paper,
- b) an indication of the source of the data set,
- c) the objectives of your investigation,
- d) the analyses you anticipate completing.

These are to be brief. The point is that I can interact with you a bit before you do a lot of work.

Please submit as a hard copy.

2. Due on May 11, before 2pm, or earlier, under my office door, 417 Evans, is the Paper.

Please submit as a hard copy.

3. The course grade will come from - the Paper, and the Proposal material.

4. Exam. The Paper will constitute the final.

*The Paper *

0. START THE PAPER WITH "THE question that is will be considering in this Paper is ..."

END THE PAPER WITH "My answer to the Paper is ..."

1. Please hand in a hard copy. Have it ≤ 12 pages, double spaced, point size ≥ 12 pt, single column, and one inch or larger margins.

2. Start out the Paper with the Scientific Question you will be addressing.

3. Describe the important parts of your analyses. Use only methods discussed in class or in Cryer & Chan or in Gelfand et al or in Guttorp or in Shumway & Stoffer or in my book.

4. Be specific, clear, factual.
5. Indicate details and sources of your data.
6. Provide the answer to your Question and implications
 - i) with subject-matter interpretation as possible,
 - ii) that are properly qualified (for the sceptical reader - here, me)
7. Lay out any final models (with uncertainties for parameter estimates as possible)
8. Mention especially important points (eg. model limitations, unexpected results, suggestions for future studies.)
9. Include important computer output as an Appendix. (These do not count in 12 page limit.)
99. plots/graphs are to be included in the 12 page limit.
10. Include a Summary
11. Include a list of references.
12. If you analyze an ordinary time series, carry out both time- and frequency-side analyses.
13. For each Paper provide some comparative discussion of the analyses, e.g. the time-side and the frequency-side results.

*Some Suggestions re the Paper *

1. Be clear what the Question you are addressing is. Remember to provide a clear answer.
2. Check the basic assumptions (eg. stationarity, no outliers present) by plotting the data, getting stem-and-leaves, etc.
3. Think about the available EDA methods are, eg. analysing $\log Y(t)$ instead of $Y(t)$.