

Guidelines for final report

In this project, you will summarize your analysis and findings in a formal report, written in clear, concise prose, suitable for publication in a scientific journal. No code or raw R output should be shown in the write-up. Make sure graphics are clearly labeled and that included information is easy to understand.

The maximum number of pages for the main document (excl. appendix, as explained below) is 8 pages, including figures. No page-cramming: i.e. nothing smaller than 11-point font, no less than 1 inch margins all around.

Please follow the structure given below:

1. Cover page [does not count towards the page limit]
 - Title, names of group members, table of contents
2. Introduction/background
 - Briefly describe background and objective
3. Data
 - Briefly describe your data
4. Methods
 - Explain the model(s) that you used in words, as well as using mathematical notation. Make sure to motivate model choice and explain how it relates to the research objective.
 - Explain what approaches were used for model validation and/or sensitivity analyses and/or model comparison (if any, but you are encouraged to include at least some form of model validation).
5. Results
 - Summarize results from selected model(s)
 - Traceplots are not included in the main document, some examples are included in the appendix only. Do include an explanation on how you checked convergence and what your findings were (e.g. you could state that traceplots, Rhats and effective samples sizes indicated no convergence problems if appropriate for your analysis).
 - You may show some plots with priors and posteriors if those are relevant to the analysis but if you chose diffuse priors, then you can simply state that and include some example plots in the appendix only.
6. Conclusion and discussion
 - Very briefly summarize your analysis and main findings, followed by a discussion of the limitations of your modeling approach and perhaps what you would do in future research.
7. References

8. Appendix [does not count towards page limit]

- **Supplementary information only!** A reader should be able to understand the main text without checking the appendix.
- The appendix contains any additional material which you refer to but do not include in the main text. E.g. the main text would simply summarize the main findings of a validation exercise while the appendix may provide tables with more detail.
- Also add:
 - i. your JAGS model(s) (the only place where code shows up in your report).
 - ii. Some examples (max 8) of traceplots and plots with priors and posteriors (any statements regarding convergence and prior choice appear in the main text as explained above).

What to hand in when

- Each team needs to hand in one report. You have to submit your report to me (hard copy!) by Monday May 2 at 3.30PM (at the start of the final exam, or in my mail box for early submissions).
- You also need to email a zip file with a softcopy of the report, as well as the data and code that you used, with one R-script labeled "main.R" that includes the main steps done in the analysis.