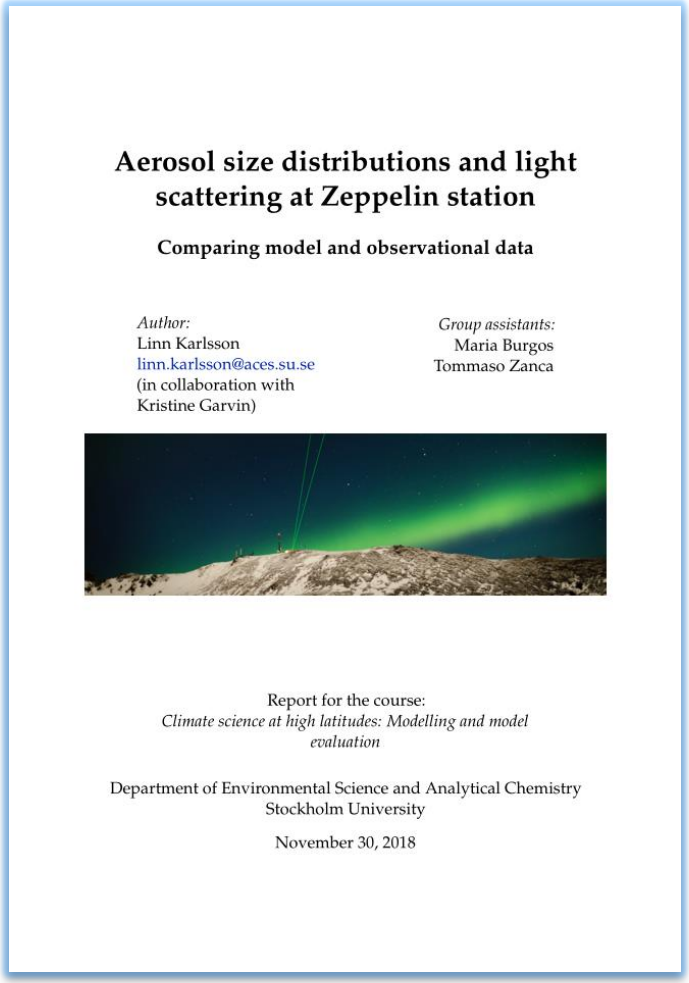
Some ideas for good reports

Paul, Michael
21.10.2019

NeGI course 2019, Abisko, Sweden

General structure

- Project title
- Name, email, course title, date, group assistant
- Abstract (1/2 page max)
- Introduction (1 page)
- Method
  - Packages used
  - Datasets (models and observations)
  - Analysis method
  - …
- Results
- Discussion and outlook (1 page)
- Conclusions (1/2 page)
- References
- Acknowledgments (model and data owners/providers)
- Supplementary material



Aerosol size distributions and light scattering at Zeppelin station

Comparing model and observational data

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(in collaboration with
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Group assistants:
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Report for the course:
Climate science at high latitudes: Modelling and model evaluation

Department of Environmental Science and Analytical Chemistry
Stockholm University

November 30, 2018

Content

- Introduction
  - Why am I studying this topic?
  - What are my hypothesis?
  - What is done in this notebook?
  - Some background (on models and observations) and underlying theory (check for 2-3 papers with assistants and teachers if needed)
  - Present equations if needed (Latex)

- Method
  - Include (cleaned-up) analysis code for reproducible science
  - Move all un-needed routines/code to supplement
  - Include line-breaks in your code (for better export to PDF)
  - Comment your code

- Results
  - Focus on main analysis steps and findings
  - Remove intermediate results and unneeded code (e.g. define functions and move them to the supplement) -> more tips and tricks on Tuesday morning

Figures

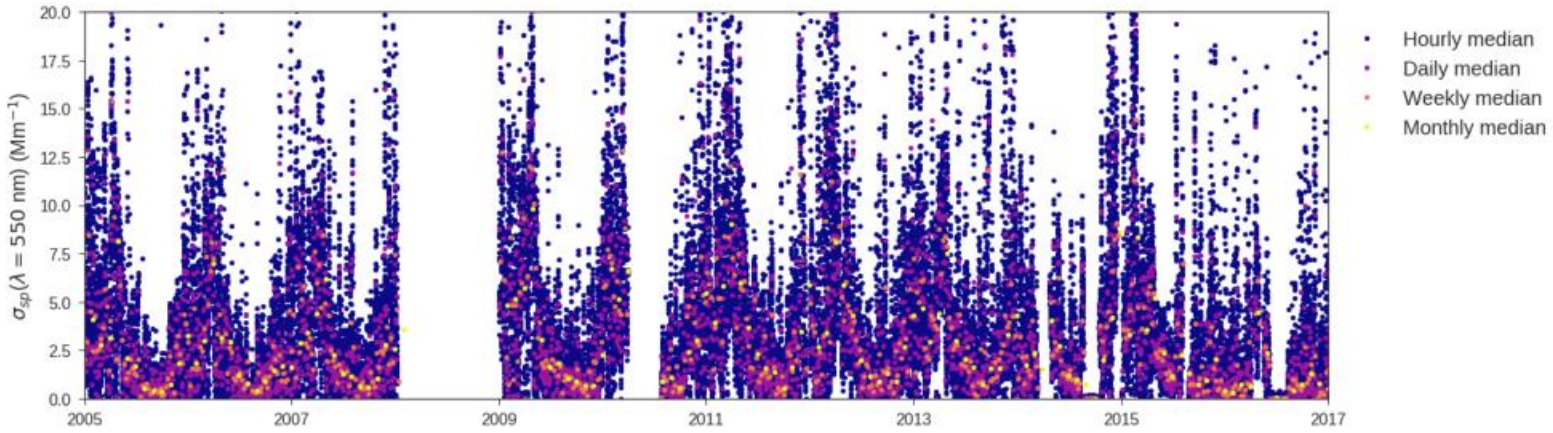

Figure 3: Median scattering coefficient $\sigma_{sp}(\lambda = 550\ \text{nm})\ (\text{Mm}^{-1})$ at different time resolutions (hourly, daily, weekly, monthly).

- Figure caption (be precise)
- Don't forget units, legends, and panel labels!
- Focus on main results/findings and remove intermediate figures

Report delivery and peer-review

- Peer-review of preliminary by fellow students (selected by lottery)

Timeline:

1. Send to student peer one week after course end (deadline 1. Nov)
2. Deadline for sending comments back to fellow student (deadline 5. Nov): General comments & specific comments (line-by-line)
3. Final version to assistant (cc: Michael, Paul and github/private repository) (deadline 12. Nov)
4. Feedback from assistants by latest 19th (Oslo) and 31th of November (for non-Oslo students)

Final version: HTML or PDF and jupyter notebook (with name in file, e.g. NeGIcourse_2019_NAME.pdf)
More tips & tricks on Tuesday