

Criteria for the evaluation of Master's theses in the MSc Meteorology and Climate Physics at KIT

The following criteria are not exhaustive and may vary in importance depending on the type of thesis. They should be discussed between the supervisor and the student during the specialization phase.

1. Scientific competence (≈50-70%)

- Does the candidate demonstrate an in-depth knowledge and understanding of the relevant scientific and technical literature?
- Are the aims/hypothesis/questions of the thesis clearly expressed?
- Have the methods and technics (e. g., analytical and statistical methods, simulation methods and model setup, layout of field measurements, ...) been thoroughly, yet concisely, documented? Is the documentation sufficient for the reader to reproduce the approach?
- Do the discussion, interpretation and conclusions build on (and are they supported by) the results?
- Are previous studies and the strengths and limitations of the own work critically discussed?
- Are the results of the thesis placed in a broader context?
- Are suggestions made for subsequent research?

2. Quality of presentation (≈10-20%)

- Does the thesis have a clear structure (e. g., Introduction – Methods – Results – Discussion – Conclusions – Appendix)?
- Is the text scientifically correct, clearly understandable and in a grammatically sound language?
- Have the central questions been answered?
- Is there an informative summary/abstract?
- Are the diagrams and tables clear, complete and appealing?
- Is the literature list complete and properly formatted?
- Is the layout of the thesis well done?

3. Commitment and independence (≈5-20%)

- Has the candidate developed original ideas and solution strategies?
- Did the candidate tackle the task with a strong commitment?
- Has the work been carried out independently and in a focused and efficient manner?
- Has the candidate made good use of constructive criticism?

4. Seminar presentation (≈10%)

- Oral presentation of the Master's Thesis in the IMK departmental seminars.