

Universität Bremen
Fachbereich 1
Physik / Elektrotechnik



Constraining uncertainties in multi-model projections of future climate with observations

Dissertation

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Abstract (English version)

TBA.

Abstract (German version)

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1. Introduction

The Effective Climate Sensitivity (ECS) is really cool. I like it very much!

2. Scientific Background

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3. Improving routine Model Evaluation

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4. Assessment of Climate Metrics in CMIP6

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5. Evaluation of Emergent Constraints on ECS in CMIP6

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6. Constraining Uncertainties in future GPP with Machine Learning

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7. Summary and Outlook

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Appendix

A. TBA

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B. TBA

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List of Acronyms

ECS Effective Climate Sensitivity	1
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Statutory Declaration

I assure that this thesis is a result of my personal work and that no other than the indicated aids have been used for its completion. Furthermore I assure that all quotations and statements that have been inferred literally or in a general manner from published or unpublished writings are marked as such. Beyond this I assure that the work has not been used, neither completely nor in parts, to pass any previous examination.

Oberpfaffenhofen, April 2021

Manuel Schlund