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LECTURE

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Publishing a Cumulative Dissertation in Open Access on BORIS Theses: Requirements and Workflow



Dr. Andrea Hacker
Open Science
University Library

Tuesday,
13.05.2025,
13:00, Zoom

How dissertations are published

Cumulative and monograph publications

Cumulative

- Chapter(s) or results can (or have to) be published as articles in journals ahead of dissertation submission
- *Introductory Section* (or umbrella – in German: "Mantelpapier") binds the chapters/articles together but is rarely published on its own
- More prevalent in the natural and life sciences

Book-form

- The dissertation is an organic whole
- Aim is to publish the entire work at once in book-form
- More prevalent in HSS

First off: know your dissertation regulations

e.g. filing dissertations at Bern MedFak

"Submitting a Dissertation" (2023 ger)

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²Eine Dissertation, bestehend aus Einzelpublikationen, muss zusätzlich zu den publizierten bzw. eingereichten Manuskripten eine ausführliche Einleitung und übergreifende Diskussion zum Thema der Dissertation enthalten sowie Lebenslauf mit Publikationsliste und eine Urheberrechtserklärung.

³Auf Antrag an die Aufsichtskommission besteht die Möglichkeit, die Dissertation als Monografie einzureichen.

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Recurrent Rossby waves: drivers and links to persistent weather

Ali, Syed Mubashir (2022). Recurrent Rossby waves: drivers and links to persistent weather. (Thesis), Universität Bern, Bern

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Abstract

Upper-level Rossby wave packets (RWPs) are one of the key drivers of surface weather. RWPs can lead to extreme surface weather events. However, extreme impacts can also arise from long spells of persistent weather. Recurrence of synoptic-scale RWPs, termed RRWPs, where RWPs recur in the same phase over a short period, can also lead to persistent weather. The importance of RRWPs has only been identified recently. This thesis aims to explore the role of RRWPs in modulating persistent weather events and their links to persistent weather drivers. First, the thesis quantifies the differences in the probability of dry and wet spells across the globe. Persistent spells can lead to droughts or stale heatwaves, more extreme events, or more extreme events that are free. The thesis finds that RRWPs are significantly associated with longer hot spells over several regions, including south-eastern Australia (SEA), a region that has seen increasingly extreme heatwaves in recent decades. Motivated by that, the importance of RRWPs for the set of most persistent and extreme SEA heatwaves is explored further. The role of RRWPs during SEA heatwaves is demonstrated by two case studies of 2004 and 2009 SEA heatwaves, where RRWPs are shown to play a key role in the development of the heatwaves. The thesis also explores the role of RRWPs in the modulation of RRWPs with other atmospheric drivers of persistent weather, namely, atmospheric blocks and quasi-resonance amplification (QRA). QRA conditions were also detected during some episodes of the most persistent and extreme SEA heatwaves. We find that RRWPs and QRA are closely associated in the SH, with 40% of QRA days also featuring RRWP conditions. We study their close association with upper-level composite maps and discuss the similarities and differences in the algorithm used to identify them. The thesis also explores the links between RRWPs and QRA. The latter part of the thesis investigates the causal drivers of RRWPs in the North Atlantic for the winter and summer seasons. RRWP episodes for summer and winter are used to identify possible causal drivers of RRWPs, whose relevance is subsequently examined in a causal network (CN) framework. The CNs reveal local changes over the Atlantic in atmospheric blocking and low wavenumber advection. The former is shown to be a robust driver of RRWPs in the North Atlantic, while the latter is shown to be a possibly modifiable background flow over the Atlantic. In summer, a direct link from background flow over the Pacific to RRWPs exists. CNs also reveal a robust link from extratropics to tropics in the summer, where background flow over North Atlantic drives changes in the background flow over the Pacific.

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