

# GEOF321 Models and Methods in Numerical Weather Prediction

Spring 2017

## Textbooks

Warner, T.T., 2011: Numerical Weather and Climate Prediction, Cambridge University Press, ISBN: 978-0-521-51389-0 (ca 500 Kr). This book offers a general introduction into the topic and forms the basis for the first part of the course.

Kalnay, E., 2003: Atmospheric Modeling, Data Assimilation and Predictability, Cambridge University Press, ISBN: 978-0-521-79629-3 (ca. 600 Kr). The second part of the course will mainly rely on this book.

Jacobson, M. Z., 2005: Fundamentals of Atmospheric Modeling, Cambridge University Press, ISBN: 978-0-521-54865-9. This is a very complete compendium which sometimes gives an alternative description to a problem. This book is optional for further in-depth reading.

## Reading list

We will cover selected chapters from the two textbooks by Kalnay and Warner in this sequence:

- Kalnay Ch. 1
- Kalnay Appendix A
- Warner Ch. 2
- Kalnay Ch. 2
- Warner Ch. 3
- Kalnay Ch. 3
- Warner Ch. 4
- Warner Ch. 5
- Warner Ch. 16
- Kalnay Ch. 5
- Kalnay Ch. 6
- Warner Ch. 9