

We are creating a book!!

**The Development of Atmospheric
General Circulation Models:
Complexity, Synthesis, and
Computation**

Edited by: Leo Donner, Wayne
Schubert, Richard Somerville

Leading GCM researchers are writing a comprehensive book on GCMs and their application as predictive climate models.

This book places the scientific challenge of modeling the climate system in both historical and contemporary contexts.

We have a publisher:
Cambridge University Press
and a contract
and
we have authors for all 10 chapters
and
we will have a completed draft
by the end of 2008.

The book is likely to be of particular interest to GCM specialists, including students.

It will also appeal to those who are scientifically literate but are not experts in the field.

Forward Isaac Held

1. Introduction Leo Donner,
Wayne Schubert, and Richard
Somerville

**2. From Richardson to Early
Numerical Weather Prediction**
Peter Lynch

**3. From Early Numerical
Weather Prediction to General
Circulation Models for Climate
Prediction Lennart Bengtsson**

**4. The Evolution of Research
Goals for General Circulation
Models Warren Washington and
Akira Kasahara**

5. The Evolution of Complexity in General Circulation Models

Dave Randall

6. Synergies between Numerical Weather Prediction and Climate General Circulation Models

Catherine Senior

7. The Role of Observations in Developing and Evaluating General Circulation Models

V. Ramanathan

8. The Societal Context of General Circulation Model Research and Development

James Fleming

**9. Coupling Atmospheric
General Circulation to Oceans**
Kirk Bryan

**10. Coupling Atmospheric
General Circulation to
Chemistry and Biology at
the Land Surface**
Robert Dickinson

The book will discuss:

(1) historical and contemporary development,

(2) societal context, and

(3) current efforts to achieve full Earth System Models.

GCMs play a central role in research on climate change, so this book will interest:

(1) physical and biological scientists, and

(2) Everyone concerned with the ongoing climate policy debate.