THE NCAR CSM OCEAN MODEL

by

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Preface

This technical note documents the ocean component of the NCAR Climate System Model. The ocean code has been developed from the Modular Ocean Model (version 1.1) which was developed and maintained at the NOAA Geophysical Fluid Dynamics Laboratory in Princeton. The person who did the most work to produce and maintain the original GFDL Ocean Model over a long time was the late Michael Cox. The oceanographic modeling community owes him a large debt because this is still the standard community ocean model. As a tribute to Mike Cox, and because the material is still relevant, the first four sections of this technical note are a straight reproduction from the GFDL Technical Report that Mike wrote in 1984. The remaining sections document how the NCAR Oceanography Section members have developed the MOM 1.1 code, and how it is forced, in order to produce the NCAR CSM Ocean Model.

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Table of Contents

Pages

A. Introduction A1–A2
B. Continuous Equations of the Model B1–B5
C. Finite Difference Formulation C1–C9
D. Integral Constraints D1–D5
E. Equation of State E1–E5
F. Parameterization of Mesoscale Eddies F1–F6
G. KPP Boundary Layer Mixing Scheme G1–G6
H. Numerical and Coupling Improvements H1–H10
I. Surface Forcing Fields I1–I7
J. List of Preprocessor Options J1–J4
K. How to Run the Model K1–K4
L. Default Parameter Values L1–L2
M. Model Output Conventions M1–M7