

CONTENTS

	<u>Page</u>
Foreword	vii
Introduction	ix
<u>SESSION I - Atmospheric General Circulation Models and Climate Simulations</u>	
J. Smagorinsky Large-scale climate modelling and small-scale physical processes	3
S. Manabe • Simulation of climate by general circulation models with hydrologic cycles	19
D.J. Carson Current parameterizations of land-surface processes in atmospheric general circulation models	67
Y. Mintz The sensitivity of numerically simulated climates to land surface conditions	109
<u>SESSION II - The Microphysical Processes of Momentum, Heat and Water Transfers Across and Near the Surface of the Land</u>	
W.H. Brutsaert Vertical flux of moisture and heat at a bare soil surface	115
L.J. Fritschen The vertical fluxes of heat and moisture at a vegetated land surface	169
M. Kuhn Vertical flux of heat and moisture in snow and ice	227
<u>SESSION III - Mesoscale Parameterizations of the Transfer Processes</u>	
J.C.I. Dooge Parameterization of hydrologic processes	243
P.S. Eagleson Dynamic hydro-thermal balances at macroscale	289
<u>SESSION IV - Land Surface Global Data Sets</u>	
M.J. Gardiner Use of regional and global soils data for climate modelling	361
A. Perrier Land surface processes: Vegetation	395
V.M. Kotliakov and A.N. Krenke Data on snow cover and glaciers for the global climatic models	449

SESSION IV (Contd.)

	<u>Page</u>
K. Ya. Kondratyev The shortwave albedo and the surface emissivity V.I. Korzov V.V. Mukhenberg and L.N. Dyachenko	463
A. Baumgartner Water balance	515

SESSION V - Acquisition of Land Surface Data

K.I. Itten Possibilities for remote sensing of surface character- istics	541
--	-----