

THESES ADVISED BY PROF. RICHARD S. LINDZEN

1. Blake, Donna Wells
*Simplified Photochemical Models and Their Applications in the
Stratosphere and Mesosphere*
University of Chicago PhD 1973
2. Hong, Siu-Shung
Semidiurnal Tides in an Atmosphere with Mean Wind and Dissipation
University of Chicago PhD 1973
3. Forbes, Jeffrey Michael
Atmospheric Solar Tides and Their Electrodynamical Effects
Harvard University PhD 1975
4. Shapiro, Lloyd Joel
Tropical Waves and Tropical Cyclone Generation
Harvard University PhD 1975
5. Boyd, John Philip
*Planetary Waves and the Semiannual Wind Oscillation in the
Tropical Upper Stratosphere*
Harvard University PhD 1976
6. Schneider, Edwin Kahn
The Hadley Circulation of the Earth's Atmosphere
Harvard University PhD 1975
7. Stevens, Duane Edwin
Atmospheric Waves Forced by Cumulus Convection in the Tropics
Harvard University PhD 1977
8. Tung, Ka-Kit
*Stationary Atmospheric Long Waves and the Phenomena of
Blocking and Sudden Warming*
Harvard University PhD 1977
9. Niehaus, Margaret Christine Wheldon
Baroclinic Instability of a Non-zonal Flow
Harvard University PhD 1979
10. Farrell, Brian Francis
Baroclinic Instability as an Initial Value Problem
Harvard University PhD 1981

11. Hou, Arthur Yuhan
Thermal Convection in Planetary Atmospheres
Harvard University PhD 1981
12. Rosenthal, Arthur James
Gravity Wave and Kelvin-Helmholtz Instabilities in Stably Stratified Shear Flows
Harvard University PhD 1981
13. Ioannou, Petros John
Baroclinic Instability of Atmospheric Jets
Harvard University PhD 1983
14. Jacqmin, David Alan
*The Causation and Variability of the Northern Winter
Quasi-stationary Planetary Waves*
Harvard University PhD 1983
15. Watterson, Ian Geoffrey
*The Effect of the Hadley Circulation on the Meridional Propagation of
Stationary Waves*
Harvard University PhD 1985
16. Chang, Chia-Yung
*Momentum Transport Due to a Squall Line System over
the Tropical Oceans*
Massachusetts Institute of Technology MSc 1988
17. Da Silva, Arlindo Morales, Jr.
*The Role of Temporal Changes of the Zonal Wind on the Excitation of
Large Scale Transients*
Massachusetts Institute of Technology PhD 1989
18. Snyder, Christopher Martin
*On the Effects of Partial Equilibration and Cumulus Heating on
Baroclinic Instability*
Massachusetts Institute of Technology PhD 1989
19. Miller, Ronald Lindsay
*Topics in Shear Instability: (A) Viscous Destabilization of Stratified
Shear Flow, (B) Organization of Rainfall by an Unstable Jet Aloft*
Massachusetts Institute of Technology PhD 1990
20. Pan, Wenwei
Rectifying the Long-term Climate Fluctuations in the Milankovitch Bands
Massachusetts Institute of Technology MSc 1992

21. Yang, Niu
Investigation of Applying Normal Mode Initialization Method to Planetary Stationary Wave Disturbances
Massachusetts Institute of Technology MSc 1992
22. Sun, De-Zheng
Tropical Tropospheric Water Vapor Budget, Maintenance of the Lapse Rate, and Distribution of the Extratropical Tropospheric Temperature and Wind
Massachusetts Institute of Technology PhD 1993
23. Kirk-Davidoff, Daniel Bernard
The Implications of Potential Vorticity Homogenization for the Climate and Climate Sensitivity
Massachusetts Institute of Technology PhD 1998
24. Roe, Gerard Hugh
Wobbly Winds in an Ice Age: The Mutual Interaction between the Great Continental Ice Sheets and Atmospheric Stationary Waves
Massachusetts Institute of Technology PhD 1999
25. Harnik, Nili
The Vertical Structure of Stratospheric Planetary Waves and Its Variability: Theory and Observations
Massachusetts Institute of Technology PhD 2000
26. Giannitsis, Constantine
Nonlinear Saturation of Vertically Propagating Rossby Waves
Massachusetts Institute of Technology PhD 2001
27. Zurita-Gotor, Pablo
Inhomogeneous PV Mixing and Equilibration of Baroclinic Instability with Implications for the Extratropical Circulation
Massachusetts Institute of Technology PhD 2003