

## Publications

### *Multi-author Books and Reports Edited*

- [1] K. Hamilton (editor), *Gravity Wave Processes - Their Parameterization in Global Climate Models*, Springer-Verlag, viii+414 pp. (1997).
- [2] L. Gray and K. Hamilton (editors). *Physics of the Equatorial Atmosphere*. Rutherford-Appleton Laboratory. Didcot, UK, 224 pp. (2003).
- [3] K. Hamilton and W. Ohfuchi (editors). *High Resolution Numerical Modelling of the Atmosphere and Ocean*. Springer Publishing, 280 pp. (2007).

### *Refereed Journal Articles*

- [1] K. Hamilton. A Variational Principle for the Acoustic Attenuation of Metals in the Collision Regime. *Physica*, **A97**, 181-188. (1979).
- [2] K. Hamilton. Observations of the Solar Diurnal and Semidiurnal Surface Pressure Oscillations in Canada. *Atmosphere-Ocean*, **18**, 89-97. (1980).
- [3] K. Hamilton. The Geographical Distribution of the Solar Semidiurnal Surface Pressure Oscillation. *Journal of Geophysical Research*, **85**, 1945-1949. (1980).
- [4] K. Hamilton. Latent Heat Release as a Possible Forcing Mechanism for Atmospheric Tides. *Monthly Weather Review*, **109**, 3-17. (1981).
- [5] K. Hamilton. The Vertical Structure of the Quasi-biennial Oscillation: Observations and Theory. *Atmosphere-Ocean*, **19**, 236-250. (1981).
- [6] K. Hamilton. A Note on the Observed Diurnal and Semidiurnal Rainfall Variations. *Journal of Geophysical Research*, **86**, 12122-12126. (1981).
- [7] K. Hamilton. The Effects of Solar Tides on the General Circulation of the Martian Atmosphere. *Journal of the Atmospheric Sciences*, **39**, 481-485. (1982).
- [8] K. Hamilton. A Note on the Interaction Between a Thermally Forced Standing Internal Gravity Wave and the Mean Flow: Implications for the Theory of the Quasi-biennial Oscillation. *Journal of the Atmospheric Sciences*, **39**, 1881-1886. (1982).
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- [11] K. Hamilton. Aspects of Wave Behaviour in the Mid and Upper Troposphere of the Southern Hemisphere. *Atmosphere-Ocean*, **21**, 40-54. (1983).

- [12] K. Hamilton. Diagnostic Study of the Momentum Balance of the Northern Hemisphere Winter Stratosphere. *Monthly Weather Review*, **111**, 1434-1441. (1983).
- [13] K. Hamilton. Quasi-biennial and Other Long Period Variations in the Solar Semidiurnal Barometric Oscillation: Observations, Theory and a Possible Application to the Problem of Monitoring Changes in Global Ozone. *Journal of the Atmospheric Sciences*, **40**, 2432-2443. (1983).
- [14] K. Hamilton. Calculation of the Effect of Stratospheric Mean Wind Variations on the Solar Semidiurnal Barometric Oscillation. *Atmosphere-Ocean*, **22**, 48-66. (1984).
- [15] K. Hamilton. Evidence for a Normal Mode Kelvin Wave in the Atmosphere. *Journal of the Meteorological Society of Japan*, **62**, 308-311. (1984).
- [16] K. Hamilton. Mean Wind Evolution Through the Quasi-biennial Cycle of the Tropical Lower Stratosphere. *Journal of the Atmospheric Sciences*, **41**, 2113-2125. (1984).
- [17] K. Hamilton. A Study of the Occurrence of Dynamically Unstable Conditions in the Middle Atmosphere. *Canadian Journal of Physics*, **62**, 963-967. (1984).
- [18] K. Hamilton. Detection of the Lunar Diurnal Atmospheric Tide. *Monthly Weather Review*, **112**, 1620-1625. (1984).
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- [20] W.J. Emery and K. Hamilton. Atmospheric Forcing of Interannual Variability in the Northeast Pacific Ocean, Connections with El Nino. *Journal of Geophysical Research*, **90**, 857-868. (1985).
- [21] K. Hamilton. A Possible Relationship Between Tropical Ocean Temperatures and the Observed Amplitude of the Atmospheric (1,1) Rossby Normal Mode. *Journal of Geophysical Research*, **90**, 8071-8074. (1985).
- [22] K. Hamilton. A Study of the Variability of the Return Migration Route of Fraser River Sockeye Salmon. *Canadian Journal of Zoology*, **63**, 1930-1943. (1985).
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- [26] K. Hamilton. Early Canadian Weather Observers and "The Year Without a Summer". *Bulletin of the American Meteorological Society*, **67**, 524-532. (1986).
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- [28] F. Zwiers and K. Hamilton. The Simulation of Atmospheric Tides in the Canadian Climate Centre General Circulation Model. *Journal of Geophysical Research*, **91**, 11877-11898. (1986).
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- [31] K. Hamilton. Interannual Environmental Variability and North American Fisheries. *Bulletin of the American Meteorological Society*, **68**, 1541-1548. (1987).
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- [33] K. Hamilton and A. Allingham. A Note on Equatorial Atlantic Sea Surface Temperature Variations 1890-1979. *Atmosphere-Ocean*, **26**, 668-678. (1988).
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- [35] K. Hamilton. Interhemispheric Asymmetry and Annual Synchronization of the Ozone Quasi-biennial Oscillation. *Journal of the Atmospheric Sciences*, **46**, 1019-1025. (1989).
- [36] K. Hamilton. A Look at the Recently Proposed Solar-QBO-Weather Relationship. *Journal of Climate*, **3**, 497-503. (1990).
- [37] K. Hamilton. Climatological Statistics of Stratospheric Inertia-gravity Waves Deduced from Historical Rocketsonde Wind and Temperature Data. *Journal of Geophysical Research*, **96**, 20831-20839. (1991).
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- [42] L. Yuan and K. Hamilton. Equilibrium Dynamics in a Forced-Dissipative f-Plane Shallow Water Model. *Journal of Fluid Mechanics*, **280**, 369-394. (1994).
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- [56] K. Hamilton. Dynamics of the Tropical Middle Atmosphere: A Tutorial Review. *Atmosphere-Ocean*, **36**, 319-354. (1998).
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- [61] L. Bruhwiler and K. Hamilton. A Numerical Simulation of the Ozone QBO in a Comprehensive General Circulation Model. *Journal of Geophysical Research*, **104**, 30525-30558. (1999).
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- [80] M. Stowasser, K. Hamilton and G.J. Boer. Local and Global Climate Feedbacks in Models with Differing Climate Sensitivities. *Journal of Climate*, **19**, 193-209. (2006).
- [81] K. Hamilton and W. Ohfuchi. Progress and Perspectives in High-Resolution Modeling. *Eos*, **87**, 176. (2006)
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*Other Refereed Publications (Book Chapters, Encyclopedia Articles etc.)*

- [1] K. Hamilton and W.J. Emery. Regional Atmospheric Forcing of Surface Temperature and Sea Level Variability in the Northeast Pacific Ocean. *El Nino North*, (W. Wooster and D. Fluharty, eds.), Washington Sea Grant Publications, pp. 22-30. (1985).
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- [9] K. Hamilton. Numerical Resolution and Modeling of the Global Atmospheric Circulation: A Review of Our Current Understanding and Outstanding Issues. *High Resolution Numerical Modelling of the Atmosphere and Ocean*. (W. Ohfuchi and K. Hamilton, eds.). Springer Publishing, 8-27. (2007).

### *Selected Unrefereed Publications*

- K. Hamilton. Effects of Atmospheric Tides on the General Circulation of the Stratosphere, Mesosphere and Lower Thermosphere. *Middle Atmosphere Program Handbook*, **2**, 246-255. (1981).
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- K. Hamilton. The Dark Day of 1819. *Chinook*, **9**, 72-74. (1987).
- K. Hamilton. A Review of Observations of the Quasi-biennial and Semiannual Oscillations of the Tropical Middle Atmosphere. *Transport Processes in the Middle Atmosphere*, (G. Visconti, ed.), D. Riedel Publishing Co., pp. 19-29. (1987).
- K. Hamilton. The Role of the Stratosphere in Modelling Tropospheric Climate. *World Meteorological Organization Technical Document #226*, pp. D1-D13. (1988).
- K. Hamilton. Evaluation of the Gravity Wave Field in the Middle Atmosphere of the GFDL "SKYHI" General Circulation Model. *World Meteorological Organization Technical Document #273*, pp. 264-271. (1989).
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- K. Hamilton. Do Historical "Zero Depth" Hydrographic Data Contain Useful Information on Climate Trends? *Canadian Meteorological and Oceanographic Society Bulletin*, **23**, 6, 6-8. (1995).
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