REFERENCES

Albee, A. L., R. E. Arvidson, F. Palluconi, and T. Thorpe (2001). Overview of the Mars Global Surveyor mission. *J. Geophys. Res.* **106**, 23291–23316.

Albee, A. L., F. D. Palluconi, and R. E. Arvidson (1998). Mars Global Surveyor Mission: Overview and Status. *Science* **279**, 1671–1672.

Angelats i Coll, M., F. Forget, F. Hourdin, O. Talagrand, J. Wanherdrick,, S. R. Lewis, P. L. Read, and M. A. Lopez-Valverde (2001). Waves in the Martian upper atmosphere: A study with the LMD General Circulation Model, #44.06. *Bull. Am. Astron. Soc.* **33**.

Angelats i Coll, M., F. Forget, F. Hourdin, J. Wanherdrick,, M. A. Lopez-Valverde, S. R. Lewis, and P. L. Read (2002). First results with the Mars thermospheric LMD general circulation model. In *EGS General Assembly #27, #EGS02-A-04418*.

Arfken, G. B. and H. J. Weber (1995). *Mathematical methods for physicists*. Academic Press, 4th ed.

Avduevskii, V. S., A. G. Godnev, V. V. Semenchenko, G. R. Uspenskii, and Z. P. Cheremukhina (1983). Investigation of the characteristics of the Venus stratosphere from acceleration measurements during the braking of the Venera-13 and Venera-14 probes. *Cosmic Research* **21**, 205–210.

Avduevskii, V. S., M. I. Marov, I. N. Kulikov, V. P. Shari, A. I. Gorbachevskii, G. R. Uspenskii, and Z. P. Cheremukhina (1983). Structure and parameters of the Venus atmosphere according to Venera probe data. In D. M. Hunten, L. Colin, T. M. Donahue, and V. I. Moroz (Eds.), *Venus*, pp. 280–298. Tucson: University of Arizona Press.

Baldwin, R. B. (1981). Tektites — Size estimates of their source craters and implications for their origin. *Icarus* **45**, 554–563.

Banerdt, W. B., M. P. Golombek, and K. L. Tanaka (1992). Stress and tectonics on Mars. In H. H. Kieffer, B. M. Jakosky, C. W. Snyder, and M. S. Matthews (Eds.), *Mars*, pp. 249–297. Tucson: University of Arizona Press.

Banfield, D., B. Conrath, J. C. Pearl, M. D. Smith, and P. Christensen (2000). Thermal tides and stationary waves on Mars as revealed by Mars Global Surveyor thermal emission spectrometer. *J. Geophys. Res.* **105**, 9521–9538.

Banfield, D., B. J. Conrath, M. D. Smith, P. Christensen, and R. J. Wilson (2003). Forced waves in the Martian Atmosphere from MGS TES Nadir Data. *Icarus* **161**, 319–345.

Barth, C. A., A. I. F. Stewart, S. W. Bougher, D. M. Hunten, S. J. Bauer, and A. F. Nagy (1992). Aeronomy of the current Martian atmosphere. In H. H. Kieffer, B. M. Jakosky, C. W. Snyder, and M. S. Matthews (Eds.), *Mars*, pp. 1054–1089. Tucson: University of Arizona Press.

Belton, M. J. S. (2002). *New Frontiers in the Solar System: An Integrated Exploration Strategy.* National Academy of Science, Washington, USA.

Bendura, R. J., R. R. Lundstrom, and P. G. Renfroe (1974). *Flight tests of Viking parachute system in three Mach number regimes. 2: Parachute test results.* NASA-TN-D-7734, Langley Research Center, Virginia.

Bertin, J. J. and M. L. Smith (1979). *Aerodynamics for Engineers.* Prentice Hall, New Jersey, USA.

Bevington, P. R. (1969). *Data reduction and error analysis for the physical sciences.* McGraw-Hill, New York, USA.

Binzel, R. P. (1999). Assessing the hazard: The development of the Torino Impact Scale. *The Planetary Report* **19**, 6–10.

Bird, G. A. (1994). *Molecular Gas Dynamics.* Clarendon Press, Oxford, Great Britain.

Blanchard, R. C., E. W. Hinson, and J. Y. Nicholson (1989). Shuttle High-Resolution accelerometer package experiment results — Atmospheric density measurements between 60 and 160 km. *Journal of Spacecraft and Rockets* **26(3)**, 173–180.

Blanchard, R. C., R. G. Wilmoth, and J. N. Moss (1997). Aerodynamic Flight Measurements and Rarefied-Flow Simulations of Mars Entry Vehicles. *Journal of Spacecraft and Rockets* **34(5)**, 687–690.

Bougher, S., G. Keating, R. Zurek, J. Murphy, R. Haberle, J. Hollingsworth, and R. T. Clancy (1999). Mars global surveyor aerobraking : atmospheric trends and model interpretation. *Advances in Space Research* **23**, 1887–1897.

Bougher, S. W. and R. E. Dickinson (1988). Mars mesosphere and thermosphere. I — Global mean heat budget and thermal structure. *J. Geophys. Res.* **93**, 7325–7337.

Bougher, S. W., S. Engel, and D. P. Hinson (2000). Mars Global Surveyor Radio Science Electron Density Profiles and Implications for the Neutral Atmosphere. In *American Astronomical Society, DPS meeting #32, #51.22.*

Bougher, S. W., S. Engel, D. P. Hinson, and J. M. Forbes (2001). Mars Global Surveyor Radio Science electron density profiles: Neutral atmosphere implications. *Geophys. Res. Lett.* **28**, 3091–3094.

Bougher, S. W., S. Engel, R. G. Roble, and B. Foster (2000). Comparative terrestrial planet thermospheres 3. Solar cycle variation of global structure and winds at solstices. *J. Geophys. Res.* **105**, 17669–17692.

Bougher, S. W. and G. M. Keating (1999). Structure of the Mars Upper Atmosphere: MGS Aerobraking Data and Model Interpretation. In *The Fifth International Conference on Mars, July 19-24, Pasadena, California, abstract no. 6010*.

Bougher, S. W., G. M. Keating, J. M. Forbes, J. R. Murphy, J. L. Hollingsworth, R. J. Wilson, and P. G. Withers (2001). The Upper Atmospheric Wave Structure of Mars as Determined by Mars Global Surveyor. In *American Geophysical Union, Fall Meeting, abstract #P32E-12*.

Bougher, S. W., J. R. Murphy, and S. Engel (2002). Coupling processes and model simulations linking the Mars lower and upper atmospheres. In *COSPAR Scientific Assembly #34, #A-00132*.

Bougher, S. W., J. R. Murphy, J. L. Hollingsworth, R. M. Haberle, G. M. Justus, C. G.and Keating, and R. W. Zurek (1997). MGS Aerobraking and Monitoring of Mars's Atmospheric Structure. In *American Geophysical Union, Fall Meeting, abstract #P21B-10*.

Bougher, S. W., R. G. Roble, E. C. Ridley, and R. E. Dickinson (1990). The Mars thermosphere. II — General circulation with coupled dynamics and composition. *J. Geophys. Res.* **95**, 14811–14827.

Bougher, S. W., P. Withers, J. R. Murphy, R. C. Roble, and G. M. Keating (2000). Longitude Structure in the Mars Upper Atmosphere: Characterization and Model Simulations. In *COSPAR Scientific Assembly #33, #C3.2-0011*.

Braun, R. D., D. A. Spencer, P. H. Kallemeyn, and R. M. Vaughan (1999). Mars Pathfinder atmospheric entry navigation operations. *Journal of Spacecraft and Rockets* **36(3)**, 348–356.

Calame, O. and J. D. Mulholland (1978). Lunar crater Giordano Bruno — A.D. 1178 impact observations consistent with laser ranging results. *Science* **199**, 875–877.

Cancro, G. J., G. M. Keating, and R. H. Tolson (1998). Operational Data Reduction Procedure for Determining Density and Vertical Structure of the Martian Upper Atmosphere from Mars Global Surveyor Accelerometer Measurements, also NASA/CR-998-208721. Master's thesis, Joint Institute for Advanced Flight Studies, George Washington University and NASA Langley Research Centre.

Chamberlain, J. W. and D. M. Hunten (1987). *Theory of planetary atmospheres: an introduction to their physics and chemistry, 2nd revised and enlarged edition.* Academic Press, New York, USA.

Chapman, S. and R. Lindzen (1970). *Atmospheric tides. Thermal and gravitational.* Reidel, Dordrecht, Germany.

Conrath, B. J. (1976). Influence of planetary-scale topography on the diurnal thermal tide during the 1971 Martian dust storm. *Journal of Atmospheric Sciences* **33**, 2430–2439.

Croom, C. A. and R. H. Tolson (1994). Using Magellan Attitude Control Data to study the Venusian Atmosphere and Various Spacecraft Properties. *Adv. Astronaut. Sci.* **87**, 451–467.

Dall'olmo, U. (1978). Meteors, meteor showers and meteorites in the Middle Ages: From European medieval sources. *J. History Astron.* **9**, 123–134.

Eldred, C. H. (1991). Aerobraking for space exploration. In *Mars: Past, present, and future; Proceedings of the Conference, Williamsburg, VA, July 16 – 19, American Institute of Aeronautics and Astronautics*, pp. 307–322.

Elliot, J. L., R. G. French, E. Dunham, P. J. Gierasch, J. Veverka, C. Church, and C. Sagan (1977). Occultation of Epsilon Geminorum by Mars. II — The structure and extinction of the Martian upper atmosphere. *Astrophys. J.* **217**, 661–679.

Euler, E. A., G. L. Adams, and F. W. Hopper (1979). Lander Flight Path Analysis. In *Viking Navigation, NASA-CR-162917*, pp. 212–299. Pasadena, California, USA: Jet Propulsion Laboratory.

Faber, T. E. (1995). *Fluid Dynamics for Physicists*. Cambridge University Press, Great Britain.

Forbes, J. F. (1995). Tidal and Planetary Waves. In R. M. Johnson and T. L. Killeen (Eds.), *The Upper Mesosphere and Lower Thermosphere: A Review of Experiment and Theory*, pp. 67–87. Washington: American Geophysical Union.

Forbes, J. M. (1999). Stationary Planetary Waves in the Mars Atmosphere. In *American Astronomical Society, DPS meeting #31, #49.06.*

Forbes, J. M., R. Gonzalez, F. A. Marcos, D. Revelle, and H. Parish (1996). Magnetic storm response of lower thermosphere density. *J. Geophys. Res.* **101**, 2313–2320.

Forbes, J. M. and M. E. Hagan (2000). Diurnal Kelvin Wave in the Atmosphere of Mars: Towards an Understanding of "Stationary" Density Structures Observed by the MGS Accelerometer. *Geophys. Res. Lett.* **27**, 3563–3566.

Forbes, J. M., M. E. Hagan, S. W. Bougher, and J. L. Hollingsworth (2001). Kelvin wave propagation in the upper atmospheres of Mars and Earth. *Advances in Space Research* **27**, 1791–1800.

Forbes, J. M., N. A. Makarov, and Y. I. Portnyagin (1995). First results from the meteor radar at south pole: A large 12-hour oscillation with zonal wavenumber one. *Geophys. Res. Lett.* **22**, 3247–3250.

Forbes, J. M., S. E. Palo, and F. A. Marcos (1999). Longitudinal structures in lower thermosphere density. *J. Geophys. Res.* **104**, 4373–4386.

Forget, F., F. Hourdin, R. Fournier, C. Hourdin, O. Talagrand, M. Collins, S. R. Lewis, P. L. Read, and J. Huot (1999). Improved general circulation models of the Martian atmosphere from the surface to above 80 km. *J. Geophys.*

Res. **104**, 24155–24176.

French, J. R. and C. W. Uphoff (1979). Aerobraking for planetary missions. In *American Astronautical Society paper 79 – 286*.

French, R. G. and J. L. Elliot (1979). Occultation of Epsilon Geminorum by Mars. III — Temperature structure of the Martian upper atmosphere. *Astrophys. J.* **229**, 828–845.

Gault, D. E. (1983). The Terrestrial Accretion of Lunar Material. In *Proc. Lunar Planet. Sci. Conf., #14, pp. 243–244*.

Gault, D. E. and P. H. Schultz (1991). Ejecta from Lunar Impacts: Where is it on Earth? *Meteoritics* **26**, 336–337.

Gladman, B. J., J. A. Burns, M. Duncan, P. Lee, and H. F. Levison (1996). The exchange of impact ejecta between terrestrial planets. *Science* **271**, 1387–1392.

Gladman, B. J., J. A. Burns, M. J. Duncan, and H. F. Levison (1995). The dynamical evolution of lunar impact ejecta. *Icarus* **118**, 302–321.

Gnoffo, P. A., K. J. Weilmuenster, R. D. Braun, and C. I. Cruz (1996). Influence of Sonic-Line Location on Mars Pathfinder Probe Aerothermodynamics. *Journal of Spacecraft and Rockets* **33(2)**, 169–177.

Goldstein, H. (1980). *Classical Mechanics, 2nd edition.* Addison-Wesley Pub. Co., Reading, Massachusetts, USA.

Golombek, M. (1999). Introduction to the special section: Mars Pathfinder. *J. Geophys. Res.* **104**, 8521–8522.

Golombek, M. P., R. A. Cook, T. Economou, W. M. Folkner, A. F. C. Haldemann, P. H. Kallemeyn, J. M. Knudsen, R. M. Manning, H. J. Moore, T. J. Parker, R. Rieder, J. T. Schofield, P. H. Smith, and R. M. Vaughan (1997). Overview of the Mars Pathfinder Mission and Assessment of Landing Site Predictions. *Science* **278**, 1743.

Greeley, R., M. D. Kraft, R. O. Kuzmin, and N. T. Bridges (2000). Mars Pathfinder landing site: Evidence for a change in wind regime from lander and orbiter data. *J. Geophys. Res.* **105**, 1829–1840.

Greenhow, J. S. and J. E. Hall (1960). The variation of meteor heights with velocity and magnitude. *Mon. Not. R. Astron. Soc.* **121**, 174–182.

Grier, J. A. (1999). *Determining the ages of impact events: Multidisciplinary studies using remote sensing and sample analysis techniques.* Ph. D. thesis, THE UNIVERSITY OF ARIZONA.

Grier, J. A., A. S. McEwen, M. Milazzo, J. A. Hester, and P. G. Lucey (2000). The Optical Maturity of the Ejecta of Small Bright Rayed Lunar Craters. In *Proc. Lunar Planet. Sci. Conf., #31, #1950.*

Gurwell, M. A., D. O. Muhleman, and G. L. Berge (1993). Observations of Middle

Atmospheric Winds on Mars. In *American Astronomical Society, DPS meeting #25, #11.02*.

Haberle, R. M. (1997). Mars: Atmosphere. In J. H. Shirley and R. W. Fairbridge (Eds.), *Encyclopedia of Planetary Sciences*, pp. 432–440. Boston: Kluwer Academic Press.

Haberle, R. M., J. B. Pollack, J. R. Barnes, R. W. Zurek, C. B. Leovy, J. R. Murphy, H. Lee, and J. Schaeffer (1993). Mars atmospheric dynamics as simulated by the NASA AMES General Circulation Model. I - The zonal-mean circulation. *J. Geophys. Res.* **98**, 3093–3123.

Hardee, H. C. (1980). Solidification in the Kilauea-Iki lava lake. *J. Volcanology Geothermal Res.* **7**, 211–223.

Harris, A. W. (1993). Corvid meteoroids are not ejecta from the Giordano Bruno impact. *J. Geophys. Res.* **98**, 9145–9149.

Hartung, J. B. (1976). Was the formation of a 20-km-diameter impact crater on the moon observed on June 18, 1178. *Meteoritics* **11**, 187–194.

Hartung, J. B. (1981). On the Occurrence of Giordano Bruno Ejecta on the Earth. In *Proc. Lunar Planet. Sci. Conf., #12, pp. 401–403*.

Hartung, J. B. (1987). The Giordano Bruno myth and other midsummer events. *Meteoritics* **22**, 402.

Hartung, J. B. (1993a). Corvid meteoroids are ejecta from the Giordano Bruno impact. *J. Geophys. Res* **98**, 9141–9144.

Hartung, J. B. (1993b). Giordano Bruno, the June 1975 meteoroid storm, Encke, and other Taurid Complex objects. *Icarus* **104**, 280–290.

Head, J. W., H. Hiesinger, M. A. Ivanov, M. A. Kreslavsky, S. Pratt, and B. J. Thomson (1999). Possible ancient oceans on Mars: Evidence from Mars Orbiter Laser Altimeter data. *Science* **286**, 2134–2137.

Hinson, D. P., G. L. Tyler, J. L. Hollingsworth, and R. J. Wilson (2001). Radio occultation measurements of forced atmospheric waves on Mars. *J. Geophys. Res.* **106**, 1463–1480.

Hollingsworth, J. L. and J. R. Barnes (1996). Forced, stationary planetary waves in Mars' winter atmosphere. *J. Atmos. Sci.* **53**, 428–448.

Holsapple, K. A. (1993). The scaling of impact processes in planetary sciences. *Annual review of earth and planetary sciences.* **21**, 333–373.

Holton, J. R. (1992). *An introduction to dynamic meteorology, 3rd ed.* Academic Press, New York, USA.

Hooke, W. H. (1977). Rossby-Planetary Waves, Tides, and Gravity Waves in the Upper Atmosphere. In *The Upper Atmosphere and Magnetosphere*, pp. 130–140. Washington: National Research Council Studies in Geophysics.

Horz, F., R. Ostertag, and D. A. Rainey (1983). Bunte Breccia of the Ries — Continuous deposits of large impact craters. *Reviews of Geophysics and Space Physics* **21**, 1667–1725.

Houghton, J. T. (2002). *The Physics of Atmospheres, 3rd ed.* Cambridge University Press, Great Britain.

Hubbard, W. B., B. Sicardy, R. Miles, A. J. Hollis, R. W. Forrest, I. K. M. Nicolson, G. Appleby, W. Beisker, C. Bittner, H.-J. Bode, M. Bruns, H. Denzau, M. Nezel, E. Riedel, H. Struckmann, J. E. Arlot, F. Roques, F. Sevre, W. Thuillot, M. Hoffmann, E. H. Geyer, C. Buil, F. Colas, J. Lecacheux, A. Klotz, E. Thouvenot, J. L. Vidal, E. Carreira, F. Rossi, C. Blanco, S. Cristaldi, Y. Nevo, H. J. Reitsema, N. Brosch, K. Cernis, K. Zdanavicius, L. H. Wasserman, D. M. Hunten, D. Gautier, E. Lellouch, R. V. Yelle, B. Rizk, F. M. Flasar, C. C. Porco, D. Toublanc, and G. Corugedo (1993). The occultation of 28 SGR by Titan. *Astronomy and Astrophysics* **269**, 541–563.

Hughes, D. W. (1976). Giordano Bruno, the Moon's latest large crater. *Nature* **264**, 212–213.

Hughes, D. W. (1981). The influx of comets and asteroids to the earth. *Philosophical Transactions of the Royal Society, Series A* **303**, 353–368.

Imoto, S. and I. Hasegawa (1958). Historical records of meteor showers in China, Korea, and Japan. *Smithsonian. Contrib. Astrophys.* **2**, 131–144.

Intrieri, P. F., C. E. D. Rose, and D. B. Kirk (1977). Flight Characteristics of Probes in the Atmospheres of Mars, Venus, and the Outer Planets. *Acta Astronautica* **4**, 789–799.

Jacchia, G. J., F. Verniani, and B. R. E. (1967). An analysis of the atmospheric trajectories of 413 precisely reduced photographic meteors. *Smithsonian. Contrib. Astrophys.* **10**, 1–139.

Jenniskens, P., M. de Lignie, H. Betlem, J. Borovicka, C. O. Laux, D. Packan, and C. H. Kruger (1998). Preparing for the 1998/99 Leonid Storms. In P. Ehrenfreund, K. Krafft, H. Kochan, and V. Pirronello (Eds.), *Laboratory astrophysics and space research*, pp. 425–455. Dortrecht: Kluwer Academic Publishers.

Joshi, M. M., J. L. Hollingsworth, R. M. Haberle, and A. F. C. Bridger (2000). An interpretation of Martian thermospheric waves based on analysis of a general circulation model. *Geophys. Res. Lett.* **27**, 613–616.

Kahn, R. (1983). Some observational constraints on the global-scale wind systems of Mars. *J. Geophys. Res.* **88**, 10189–10209.

Kasprzak, W., H. Niemann, D. Harpold, J. Richards, H. Manning, E. Patrick, and P. Mahaffy (1996). Cassini orbiter ion and neutral mass spectrometer instrument. In L. Horn (Ed.), *Proc. SPIE, volume 2803, Cassini/Huygens: A Mission to the Saturnian Systems*, pp. 129–140.

Kasprzak, W. T., H. B. Niemann, A. E. Hedin, and S. W. Bougher (1993).

Wave-like perturbations observed at low altitudes by the Pioneer Venus Orbiter Neutral Mass Spectrometer during orbiter entry. *Geophys. Res. Lett.* **20**, 2755–2758.

Kaula, W. M. (1966). *Theory of satellite geodesy. Applications of satellites to geodesy.* Blaisdell Pub. Co., Massachusetts, USA.

Keating, G. M., S. W. Bougher, R. W. Zurek, R. H. Tolson, G. J. Cancro, S. N. Noll, J. S. Parker, T. J. Schellenberg, R. W. Shane, B. L. Wilkerson, J. R. Murphy, J. L. Hollingsworth, R. M. Haberle, M. Joshi, J. C. Pearl, B. J. Conrath, M. D. Smith, R. T. Clancy, R. C. Blanchard, R. G. Wilmoth, D. F. Rault, T. Z. Martin, D. T. Lyons, P. B. Esposito, M. D. Johnston, C. W. Whetzel, C. G. Justus, and J. M. Babicke (1998). The Structure of the Upper Atmosphere of Mars: In Situ Accelerometer Measurements from Mars Global Surveyor. *Science* **279**, 1672–1676.

Keating, G. M., A. Dwyer, R. J. Wilson, R. H. Tolson, S. W. Bougher, P. G. Withers, and J. M. Forbes (2000). Evidence of Large Global Diurnal Kelvin Wave in Mars Upper Atmosphere. In *American Astronomical Society, DPS meeting #32, #50.02.*

Keating, G. M., F. W. Taylor, J. Y. Nicholson, and E. W. Hinson (1979). Short-term cyclic variations and diurnal variations of the Venus upper atmosphere. *Science* **205**, 62–64.

Keating, G. M., R. H. Tolson, A. M. Dwyer, S. W. Bougher, P. G. Withers, and J. M. Forbes (2001). Persistent planetary-scale wave-2 and wave-3 density variations observed in Mars upper atmosphere from MGS accelerometer experiment. In *EGS General Assembly #26, #PS2.02.*

Keating, G. M., R. H. Tolson, J. L. Hanna, R. F. Beebe, J. R. Murphy, and L. Huber (2001a). *MGS-M-ACCEL-5-PROFILE-V1.1.* NASA Planetary Data System.

Keating, G. M., R. H. Tolson, J. L. Hanna, R. F. Beebe, J. R. Murphy, and L. Huber (2001b). *MGS-M-ACCEL-5-ALTITUDE-V1.1.* NASA Planetary Data System.

Keating, G. M., R. H. Tolson, S. N. Noll, T. J. Schellenberg, R. L. Stephens, M. S. Bradford, D. T. Baird, L. J. Ellis, S. W. Bougher, and J. L. Hollingsworth (1999). First In Situ Atmospheric Measurements of Mars Southern Hemisphere. In *American Geophysical Union, Spring Meeting, abstract #P31A-05.*

Keating, G. M., R. H. Tolson, S. N. Noll, T. J. Schellenberg, R. L. Stephens, M. S. Bradford, S. W. Bougher, and J. L. Hollingsworth (1999). First Global Mapping of the Mars Thermosphere. In *American Astronomical Society, DPS meeting #31, #76.02.*

Kerzhanovich, V. V. (1977). Mars 6 — Improved analysis of the descent module measurements. *Icarus* **30**, 1–25.

Kerzhanovich, V. V. and M. I. Marov (1983). The atmospheric dynamics of Venus according to Doppler measurements by the Venera entry probes. In D. M.

Hunten, L. Colin, T. M. Donahue, and V. I. Moroz (Eds.), *Venus*, pp. 766–778. Tucson: University of Arizona Press.

Kesthelyi, L. and R. Denlinger (1996). The initial cooling of pahoehoe flow lobes. *Bull. Volcanol.* **58**, 5–18.

Kieffer, H. H., B. M. Jakosky, C. W. Snyder, and M. S. Matthews (1992). *Mars*. University of Arizona Press, Tucson, USA.

Krasnopolsky, V. A., O. B. Likin, F. Farnik, and B. Valnicek (1991). Solar occultation observations of the Martian atmosphere in the ranges of 2-4 and 4-8 keV measured by PHOBOS 2. *Icarus* **89**, 147–151.

Kronk, G. W. (1988). *Meteor Showers: A Descriptive Catalogue*. Enslow Publishers, New Jersey, USA.

Lammer, H., W. Stumptner, and S. J. Bauer (2000). Upper limits for the Martian exospheric number density during the Planet B/Nozomi mission. *Planetary and Space Science* **48**, 1473–1478.

Landau, L. D. and E. M. Lifshitz (1959). *Fluid mechanics*. Pergamon Press, Oxford, Great Britain.

Landau, L. D. and E. M. Lifshitz (1969a). *Mechanics*. Pergamon Press, Oxford, Great Britain.

Landau, L. D. and E. M. Lifshitz (1969b). *Statistical physics*. Pergamon Press, Oxford, Great Britain.

Lang, K. R. (1999). *Astrophysical formulae*. Springer, New York, USA.

Lebreton, J.-P., M. Verdant, and R. D. Wills (1994). Huygens — The Science, Payload and Mission Profile. *ESA Bulletin* **77**, 31–41.

Lellouch, E., J. Rosenqvist, J. J. Goldstein, S. W. Bougher, and G. Paubert (1991). First absolute wind measurements in the middle atmosphere of Mars. *Astrophys. J.* **383**, 401–406.

Lemoine, F. G., D. E. Smith, D. D. Rowlands, M. T. Zuber, G. A. Neumann, D. S. Chinn, and D. E. Pavlis (2001). An improved solution of the gravity field of Mars (GMM-2B) from Mars Global Surveyor. *J. Geophys. Res.* **106**, 23359–23376.

Leovy, C. B. (1982). Martian meteorological variability. *Advances in Space Research* **2**, 19–44.

Leovy, C. B. (2001). Weather and climate on Mars. *Nature* **412**, 245–249.

Leovy, C. B. and Y. Mintz (1969). Numerical simulation of the atmospheric circulation and climate of Mars. *J. Atmos. Sci.* **26**, 1167–1190.

Lewis, J. S. (1996). *Rain of Iron and Ice*. Addison-Wesley, Reading, Massachusetts, USA.

Lide, D. R. (1994). *CRC Handbook of chemistry and physics. A ready-reference book of chemical and physical data.* CRC Press, Boca Raton, Florida.

Lin, C. A. (1982). An Extremal Principle for a One-Dimensional Climate Model. *Geophys. Res. Lett.* **9**, 716–718.

Lissauer, J. J. (1999). How common are habitable planets? *Nature* **402**, C11–C14.

Lodders, K. and B. Fegley (1998). *The planetary scientist's companion.* Oxford University Press, Great Britain.

Lorenz, R. D., J. I. Lunine, P. G. Withers, and C. P. McKay (2001). Titan, Mars and Earth: Entropy Production by Latitudinal Heat Transport. *Geophys. Res. Lett.* **28**, 415–418.

Lyons, D. T. (1996). Aerobraking: The Key to Affordable Mars Exploration. In *International Academy of Astronautics IAA Paper L-0512 presented at 2nd International Low-Cost Spacecraft Conference, Laurel, Maryland, April, 1996.*

Lyons, D. T. (1999). Aerobraking at Venus and Mars: A Comparison of the Magellan and Mars Global Surveyor Aerobraking Phases. In *American Astronautical Society paper 99 – 358.*

Lyons, D. T., R. S. Saunders, and D. G. Griffith (1995). The Magellan Venus Mapping Mission: Aerobraking Operations. *Acta Astronautica* **35**, 669–676.

Magalhães, J. A., J. T. Schofield, and A. Seiff (1999). Results of the Mars Pathfinder atmospheric structure investigation. *J. Geophys. Res.* **104**, 8943–8955.

Marcos, F. A., H. B. Garrett, K. S. W. Champion, and J. M. Forbes (1977). Density variations in lower thermosphere from analysis of AE-C accelerometer measurements. *Planet. Space Sci.* **25(5)**, 499–507.

Martin, T. Z. and J. R. Murphy (2001). A Martian Year of Mapping by the MGS Horizon Science Experiment. In *American Astronomical Society, DPS meeting #33, #19.24.*

Maxwell, T. A. and F. El-Baz (1978). The nature of rays and sources of highland material in Mare Crisium. In R. B. Merrill and J. J. Papike (Eds.), *Mare Crisium: The view from Luna 24*, pp. 89–103.

Mayo, A. P., W. T. Blackshear, R. H. Tolson, W. H. Michael, G. M. Kelly, J. P. Brenkle, and T. A. Komarek (1977). Lander locations, Mars physical ephemeris, and solar system parameters Determination from Viking lander tracking data. *J. Geophys. Res.* **82**, 4297–4303.

Meeus, J. (1990). The "lunar event" of AD 1178. *J. Br. Astron. Assoc.* **100**, 59.

Melosh, H. J. (1989). *Impact cratering: A geologic process.* Oxford University Press, Great Britain.

Melosh, H. J. and A. M. Vickery (1991). Melt droplet formation in energetic impact events. *Nature* **350**, 494–497.

Mims, S. S. and R. W. James (1982). Meteors from Giordano Bruno Ejecta. In *Proc. Lunar Planet. Sci. Conf., #13, pp. 520–521.*

Mischna, M. A., J. F. Bell, P. B. James, and D. Crisp (1998). Synoptic measurements of Martian winds using the Hubble Space Telescope. *Geophys. Res. Lett.* **25**, 611–614.

Moreno, R., S. Guilloteau, E. Lellouch, T. Encrenaz, F. Forget, E. Chassefiere, F. Jegou, and F. Hourdin (2001). Mars' wind measurements at Equinox : IRAM PdB Interferometric CO observations. In *American Astronomical Society, DPS meeting #33, #19.21.*

Moss, J. N., R. C. Blanchard, R. G. Wilmoth, and R. D. Braun (1998). Mars Pathfinder Rarefied Aerodynamics: Computations and Measurements. In *American Institute of Aeronautics and Astronautics paper 98-0298.* 36th AIAA Aerospace Science Meeting in Reno, Nevada, USA.

Müller-Wodarg, I. C. F., R. V. Yelle, M. Mendillo, L. A. Young, and A. D. Aylward (2000). The thermosphere of Titan simulated by a global three-dimensional time-dependent model. *J. Geophys. Res.* **105**, 20833–20856.

Murphy, J. R., S. Larsen, H. Joergensen, and J. T. Schofield (2002). Derivation and Analyses of Martian Surface Winds from Mars Pathfinder. In *American Astronomical Society, DPS meeting #34, #15.06.*

Murphy, J. R., T. Z. Martin, M. Blackmon, and S. Nelli (2001). Quantification of high frequency thermal waves in the martian atmosphere: Analysis of MGS Horizon Sensor atmospheric temperatures. In *American Astronomical Society, DPS meeting #33, #19.23.*

Murphy, J. R., J. B. Pollack, R. M. Haberle, C. B. Leovy, O. B. Toon, and J. Schaeffer (1995). Three-dimensional numerical simulation of Martian global dust storms. *J. Geophys. Res.* **100**, 26357–26376.

Murray, C. D. and S. F. Dermott (1999). *Solar System Dynamics.* Cambridge University Press, Great Britain.

Nakamura, Y. and D. L. Anderson (1979). Martian wind activity detected by a seismometer at Viking lander 2 site. *Geophys. Res. Lett.* **6**, 499–502.

National Space Science Data Center (2003). *http://nssdc.gsfc.nasa.gov/.*

Neter, J. and W. Wasserman (1974). *Applied Linear Statistical Models.* Richard D. Irwin, Homewood, Illinois, USA.

Neubauer, F. M., D. A. Gurnett, J. D. Scudder, and R. E. Hartle (1984). Titan's magnetospheric interaction. In T. Gehrels and M. S. Matthews (Eds.), *Saturn*, pp. 760–787. Tucson: University of Arizona Press.

Neukum, G. and B. A. Ivanov (1994). Crater Size Distributions and Impact

Probabilities on Earth from Lunar, Terrestrial-planet, and Asteroid Cratering Data. In T. Gehrels, M. S. Matthews, and A. Schumann (Eds.), *Hazards Due to Comets and Asteroids*, pp. 359–416. Tucson: University of Arizona Press.

Newton, R. R. (1972). *Medieval Chronicles and the Rotation of the Earth.* Johns Hopkins University Press, USA.

Niemann, H. B., W. T. Kasprzak, A. E. Hedin, D. M. Hunten, and N. W. Spencer (1980). Mass spectrometric measurements of the neutral gas composition of the thermosphere and exosphere of Venus. *J. Geophys. Res.* **85**, 7817.–7827.

Nier, A. O. and M. B. McElroy (1977). Composition and structure of Mars' upper atmosphere — Results from the neutral mass spectrometers on Viking 1 and 2. *J. Geophys. Res.* **82**, 4341–4349.

Nininger, H. H. and G. I. Huss (1977). Was the Formation of Lunar Crater Giordano Bruno Witnessed in 1178? Look Again. *Meteoritics* **12**, 21–25.

Nockolds, P. and P. Withers (2002). Comment and reply on "Meteor storm evidence against the recent formation of lunar crater Giordano Bruno" by Paul Withers. *Meteoritics and Planetary Science* **37**, 465–466.

Oberst, J. (1989). Possible relationship between the Farmington meteorite and a seismically detected swarm of meteoroids impacting the moon. *Meteoritics* **24**, 23–28.

Owczarek, J. A. (1964). *Fundamentals of Gas Dynamics.* International Textbook Company, Pennsylvania, USA.

Paltridge, G. W. (1975). Global dynamics and climate — a system of minimum entropy exchange. *Quart. J. R. Met. Soc.* **101**, 475–484.

Peterson, V. L. (1965a). *Analysis of the errors associated with the determination of planetary atmosphere structure from measured accelerations of an entry vehicle.* NASA-TR-R-225. Ames Research Center, California.

Peterson, V. L. (1965b). *A technique for determining planetary atmosphere structure from measured accelerations of an entry vehicle.* NASA TN D-2669. Ames Research Center, California.

Pieters, C. M., M. I. Staid, E. M. Fischer, S. Tompkins, and G. He (1994). A Sharper View of Impact Craters from Clementine Data. *Science* **266**, 1844–1848.

Purucker, M., D. Ravat, H. Frey, C. Voorhies, T. Sabaka, and M. Acuña (2000). An altitude-normalized magnetic map of Mars and its interpretation. *Geophys. Res. Lett.* **27**, 2449–2452.

Rada, W. S. and F. R. Stephenson (1992). A Catalogue of Meteor Showers in Mediaeval Arab Chronicles. *Q. J. R. Astron. Soc.* **33**, 5–16.

Rees, M. H. (1989). *Physics and chemistry of the upper atmosphere.* Cambridge University Press, Great Britain.

Rishbeth, H., R. V. Yelle, and M. Mendillo (2000). Dynamics of Titan's thermosphere. *Planetary and Space Science* **48**, 51–58.

Rodgers, C. D. (1976). Comments on Paltridge's "Minimum Entropy Exchange" Principle. *Quart. J. R. Met. Soc.* **102**, 455–458.

Ryder, G. and R. Ostertag (1983). ALHA 81005 — Moon, Mars, petrography, and Giordano Bruno. *Geophys. Res. Lett.* **10**, 791–794.

Sagan, C. (1980). *Cosmos*. Random House, New York, USA.

Saul, J. M. and A. C. Lawniczak (1996). Meteorite falls in June: Two sets of observations. *J. Geophys. Res.* **101**, 16905–16908.

Schaefer, B. E. and P. M. Bagnall (1990). Lunar Event of 1178 A .D. — a Canterbury tale. *J. Br. Astron. Assoc.* **100**, 211.

Schmülling, F., T. Kostiuk, D. Buhl, P. Rozmarynowski, K. Segal, T. Livengood, and T. Hewagama (1999). A new Infrared Heterodyne Instrument for measurements of Planetary Wind and Composition. In *American Astronomical Society, DPS meeting #31, #08.03*.

Schubert, G. (1983). General circulation and the dynamical state of the Venus atmosphere. In D. M. Hunten, L. Colin, T. M. Donahue, and V. I. Moroz (Eds.), *Venus*, pp. 681–765. Tucson: University of Arizona Press.

Schultz, R. A. (2000). Localization of bedding plane slip and backthrust faults above blind thrust faults: Keys to wrinkle ridge structure. *J. Geophys. Res.* **105**, 12035–12052.

Seiff, A. (1963). *Some Possibilities For Determining the Characteristics of the Atmospheres of Mars and Venus From Gas-Dynamic Behavior of a Probe Vehicle*. NASA TN D-1770. Ames Research Center, California.

Seiff, A. (1982). Post-Viking models for the structure of the summer atmosphere of Mars. *Advances in Space Research* **2**, 3–17.

Seiff, A. (1993). Mars atmospheric winds indicated by motion of the Viking landers during parachute descent. *J. Geophys. Res.* **98**, 7461–7474.

Seiff, A. and D. B. Kirk (1977a). Structure of the atmosphere of Mars in summer at mid-latitudes. *J. Geophys. Res.* **82**, 4364–4378.

Seiff, A. and D. B. Kirk (1977b). Structure of the atmosphere of Mars in summer at mid-latitudes. *J. Geophys. Res.* **82**, 4364–4378.

Seiff, A. and D. B. Kirk (1977c). Viking Lander Altimeter update. *Minutes of the second meeting of the Viking Mars Physical Properties Working Group (assembled by J. W. Meredith at JPL)*, 26–30.

Seiff, A., D. B. Kirk, T. C. D. Knight, R. E. Young, J. D. Mihalov, L. A. Young, F. S. Milos, G. Schubert, R. C. Blanchard, and D. Atkinson (1998). Thermal structure of Jupiter's atmosphere near the edge of a 5-μm hot spot in the north equatorial belt. *J. Geophys. Res.* **103**, 22857–22890.

Seiff, A., D. B. Kirk, R. E. Young, R. C. Blanchard, J. T. Findlay, G. M. Kelly, and S. C. Sommer (1980). Measurements of thermal structure and thermal contrasts in the atmosphere of Venus and related dynamical observations — Results from the four Pioneer Venus probes. *J. Geophys. Res.* **85**, 7903–7933.

Seiff, A., D. B. Kirk, R. E. Young, S. C. Sommer, R. C. Blanchard, J. T. Findlay, and G. M. Kelly (1979). Thermal contrast in the atmosphere of Venus — Initial appraisal from Pioneer Venus probe data. *Science* **205**, 46–49.

Seiff, A., D. E. Reese, S. C. Sommer, D. B. Kirk, E. E. Whiting, and H. B. Niemann (1973). PAET: An Entry Probe Experiment in the Earth's Atmosphere. *Icarus* **18**, 525–563.

Shirley, J. H. (1997). Meteor. In J. H. Shirley and R. W. Fairbridge (Eds.), *Encyclopedia of Planetary Sciences*, pp. 479–480. Boston: Kluwer Academic Press.

Sims, M. R., C. T. Pillinger, I. P. Wright, J. Dowson, S. Whitehead, A. Wells, J. E. Spragg, G. Fraser, L. Richter, H. Hamacher, A. Johnstone, N. P. Meredith, C. de La Nougerede, B. Hancock, R. Turner, S. Peskett, A. Brack, J. Hobbs, M. Newns, A. Senior, M. Humphries, H. U. Keller, N. Thomas, J. S. Lingard, J. C. Underwood, N. M. Sale, M. F. Neal, G. Klingelhofer, and T. C. Ng (1999). Beagle 2: a proposed exobiology lander for ESA's 2003 Mars express mission. *Advances in Space Research* **23**, 1925–1928.

Slipher, E. C. (1962). *The photographic story of Mars.* Sky Pub. Corp., Cambridge, Massachusetts, USA.

Smith, D. E., F. J. Lerch, R. S. Nerem, M. T. Zuber, G. B. Patel, S. K. Fricke, and F. G. Lemoine (1993). An improved gravity model for Mars: Goddard Mars Model 1. *J. Geophys. Res.* **98**, 20871–20889.

Smith, D. E., G. A. Neumann, P. Ford, R. E. Arvidson, E. A. Guinness, and S. Slavney (1999). Mars Global Surveyor Laser Altimeter Initial Experiment Gridded Data Record. *NASA Planetary Data System*, MGS–M–MOLA–5–IEGDR–L3–V1.0.

Smith, D. E., M. T. Zuber, H. V. Frey, J. B. Garvin, J. W. Head, D. O. Muhleman, G. H. Pettengill, R. J. Phillips, S. C. Solomon, H. J. Zwally, W. B. Banerdt, T. C. Duxbury, M. P. Golombek, F. G. Lemoine, G. A. Neumann, and et al. (2001b). Mars Orbiter Laser Altimeter: Experiment summary after the first year of global mapping of Mars. *J. Geophys. Res.* **106**, 23689–23722.

Smith, D. E., M. T. Zuber, H. V. Frey, J. B. Garvin, J. W. Head, D. O. Muhleman, G. H. Pettengill, R. J. Phillips, S. C. Solomon, H. J. Zwally, W. B. Banerdt, and T. C. Duxbury (1998a). Topography of the Northern Hemisphere of Mars from the Mars Orbiter Laser Altimeter. *Science* **279**, 1686–1690.

Smith, D. E., M. T. Zuber, S. C. Solomon, R. J. Phillips, J. W. Head, J. B.

Garvin, W. B. Banerdt, D. O. Muhleman, G. H. Pettengill, G. A. Neumann, F. G. Lemoine, J. B. Abshire, O. Aharonson, D. C. Brown, S. A. Hauck, A. B. Ivanov, P. J. McGovern, H. J. Zwally, and T. C. Duxbury (1999). The Global Topography of Mars and Implications for Surface Evolution. *Science* **284**, 1495–1503.

Smith, M. D., J. C. Pearl, B. J. Conrath, and P. R. Christensen (2000). Mars Global Surveyor Thermal Emission Spectrometer (TES) observations of dust opacity during aerobraking and science phasing. *J. Geophys. Res.* **105**, 9539–9552.

Smith, M. D., J. C. Pearl, B. J. Conrath, and P. R. Christensen (2001). Thermal Emission Spectrometer results: Mars atmospheric thermal structure and aerosol distribution. *J. Geophys. Res.* **106**, 23929–23946.

Snyder, C. W. and V. I. Moroz (1992). Spacecraft Exploration of Mars. In H. H. Kieffer, B. M. Jakosky, C. W. Snyder, and M. S. Matthews (Eds.), *Mars*, pp. 71–119. Tucson: University of Arizona Press.

Sommer, S. C. and L. Yee (1969). An experiment to determine the structure of a planetary atmosphere. *Journal of Spacecraft and Rockets* **6(6)**, 704–710.

Spedicato, E. (1998). Tunguska-type impacts over the Pacific Basin around the year 1178 AD: Chronology and catastrophism review. *J. Soc. Interdisciplinary Studies* **1**, 8–12.

Spencer, D. A., R. C. Blanchard, R. D. Braun, P. H. Kallemeyn, and S. W. Thurman (1999). Mars Pathfinder entry, descent, and landing reconstruction. *Journal of Spacecraft and Rockets* **36(3)**, 357–366.

Squyres, S. W. (2001). The Mars Exploration Rover Project. In *American Geophysical Union, Fall Meeting, abstract #P41A-09.*

Stewart, A. I. F. (1987). *Revised time dependent model of the martian atmosphere for use in orbit lifetime and sustenance studies.* LASP-JPL Internal Report, PO# NQ-802429, Pasadena, California.

Strangeway, R. J. (1993). The Pioneer Venus Orbiter entry phase. *Geophys. Res. Lett.* **20**, 2715–2717.

Stubbs, W. (1879). *The historical works of Gervase of Canterbury, Vol. 1.* Her Majesty's Stationery Office, London, Great Britain.

Thomas, P. (1981). North-south asymmetry of eolian features in Martian polar regions — Analysis based on crater-related wind markers. *Icarus* **48**, 76–90.

Tolson, R. H., G. M. Keating, G. J. Cancro, J. S. Parker, S. N. Noll, and B. L. Wilkerson (1999). Application of Accelerometer Data to Mars Global Surveyor Aerobraking Operations. *Journal of Spacecraft and Rockets* **36**, 323–329.

Tolson, R. H., G. M. Keating, S. N. Noll, D. T. Baird, and T. J. Shellenberg

(2000). Utilization of Mars Global Surveyor Accelerometer Data for Atmospheric Modeling. *Advances in the Astronautical Sciences* **103**, 1329–1346.

Tracadas, P. W., M. T. Zuber, D. E. Smith, and F. G. Lemoine (2001). Density structure of the upper thermosphere of Mars from measurements of air drag on the Mars Global Surveyor spacecraft. *J. Geophys. Res.* **106**, 23349–23358.

Tu, K. Y., M. S. Munir, K. D. Mease, and D. S. Bayard (2000). Drag-based predictive tracking guidance for Mars precision landing. *Journal of Guidance Control and Dynamics* **23(4)**, 620–628.

Tyler, G. L., G. Balmino, D. P. Hinson, W. L. Sjogren, D. E. Smith, R. A. Simpson, S. W. Asmar, P. Priest, and J. D. Twicken (2001). Radio science observations with Mars Global Surveyor: Orbit insertion through one Mars year in mapping orbit. *J. Geophys. Res.* **106**, 23327–23348.

Vickery, A. M. (1987). Variation in ejecta size with ejection velocity. *Geophys. Res. Lett.* **14**, 726–729.

Vinh, N. X., A. Busemann, and R. D. Culp (1980). *Hypersonic and Planetary Entry Flight Mechanics*. University of Michigan Press, USA.

Warren, P. H. (1994). Lunar and martian meteorite delivery services. *Icarus* **111**, 338–363.

Wercinski, P. F. and J. E. Lyne (1994). Mars aerocapture — extension and refinement. *Journal of Spacecraft and Rockets* **31(4)**, 703–705.

Wilson, R. J. (2000a). Evidence for Diurnal Period Kelvin Waves in the Martian Atmosphere from Mars Global Surveyor TES Data. *Geophys. Res. Lett.* **27**, 3889–3892.

Wilson, R. J. (2000b). Topographically Modulated Thermal Tides in the Martian Atmosphere. In *American Astronomical Society, DPS meeting #32, #50.03.*

Wilson, R. J. (2002). Evidence for nonmigrating thermal tides in the Mars upper atmosphere from the Mars Global Surveyor Accelerometer Experiment. *Geophys. Res. Lett.* **29(7)**, 10.1029/2001GL013975.

Wilson, R. J. and K. Hamilton (1996). Comprehensive model simulation of thermal tides in the Martian atmosphere. *J. Atmos. Sci.* **43**, 1290–1326.

Withers, P. (2001, April). Meteor storm evidence against the recent formation of lunar crater Giordano Bruno. *Meteoritics and Planetary Science* **36**, 525–529.

Withers, P., S. W. Bougher, and G. M. Keating (2000). New Results from Mars Global Surveyor Accelerometer. In *Proc. Lunar Planet. Sci. Conf., #31, #1268.*

Withers, P., S. W. Bougher, and G. M. Keating (2001a). Harmonic Analysis of Zonal Density Structures in Martian Upper Atmosphere. In *American Geophysical Union, Spring Meeting, abstract #P41A-05.*

Withers, P., S. W. Bougher, and G. M. Keating (2001b). Unpredictable day-to-day variability in the martian upper atmosphere. In *American Astronomical Society, DPS meeting #33, #19.29*.

Withers, P., S. W. Bougher, and G. M. Keating (2002a). Measurements of Winds in the Martian Upper Atmosphere from the MGS Accelerometer. In *American Astronomical Society, DPS meeting #34, #05.05*.

Withers, P., S. W. Bougher, and G. M. Keating (2002b). MGS Accelerometer-derived profiles of Upper Atmospheric Pressures and Temperatures: Similarities, Differences, and Winds. In *American Geophysical Union, Spring Meeting, abstract #P41A-10*.

Withers, P., S. W. Bougher, and G. M. Keating (2002c). Winds in the martian upper atmosphere from MGS aerobraking density profiles. In *American Geophysical Union, Fall Meeting, abstract #P61C-0353*.

Withers, P., S. W. Bougher, and G. M. Keating (2003). The effects of topographically-controlled thermal tides in the martian upper atmosphere as seen by the MGS accelerometer. *Icarus*, under review.

Withers, P., R. D. Lorenz, and G. A. Neumann (2002, September). Comparison of Viking Lander Descent Data and MOLA Topography Reveals Kilometer-Scale Offset in Mars Atmosphere Profiles. *Icarus* **159**, 259–261.

Withers, P. and G. A. Neumann (2001). Enigmatic northern plains of Mars. *Nature* **410**, 651.

Withers, P., M. C. Towner, B. Hathi, and J. C. Zarnecki (2003). Analysis of entry accelerometer data: A case study of Mars Pathfinder. *Planetary and Space Science*, under review.

Withers, P. G., S. W. Bougher, and G. M. Keating (1999). The Martian Upper Atmosphere During Phase 2 of Mars Global Surveyor Aerobraking: Comparison to Predictions. In *The Fifth International Conference on Mars, July 19-24, Pasadena, California, abstract no. 6073*.

Yoder, C. F. (1981). The free librations of a dissipative moon. *Philosophical Transactions of the Royal Society, Series A* **303**, 327–338.

Young, R. E. and J. A. Magalhães (2001). Alvin Seiff (1922-2000). *Icarus* **152**, 1–3.

Yourgrau, W. and S. Mandelstam (1960). *Variational principles in dynamics and quantum theory*. Page 154, Pittman and Sons, London, Great Britain.

Zhaung, T. (1977). Ancient Chinese Records of Meteor Showers. *Chinese Astronomy* **1**, 197–220.

Zurek, R. W., J. R. Barnes, R. M. Haberle, J. B. Pollack, J. E. Tillman, and C. B. Leovy (1992). Dynamics of the atmosphere of Mars. In H. H. Kieffer, B. M. Jakosky, C. W. Snyder, and M. S. Matthews (Eds.), *Mars*, pp. 835–933. Tucson: University of Arizona Press.