

# Further Reading

The books and articles mentioned here should be fairly readily available—for example, on loan or in university libraries. Some of the books are collections of articles by different authors. Not all of the articles in these provide easy reading, but others in the same volume are simpler. Though the entries are grouped under chapter headings, a number of the books provide information that is relevant to more than one chapter. For example, the *Encyclopedia of the solar system* listed under Chapter 6 is also relevant to all the preceding five chapters.

Much astronomical information nowadays is, of course, available online. NASA, in particular, provides a vast amount of material. Their main site can be found at [www.nasa.gov](http://www.nasa.gov). Professional astronomers turn to the NASA ADS Astronomy Abstract Service at [adswww.harvard.edu](http://adswww.harvard.edu), with a mirror site at [ukads.nottingham.ac.uk](http://ukads.nottingham.ac.uk), which contains information (often including summaries) of all the articles published in astronomical journals, along with some books. A useful site for keeping up with new observations in astronomy and space science is [spaceflight-now.com](http://spaceflight-now.com). The various national astronomical societies have sites of their own, which provide both information and links to other useful sites. For example, the American Astronomical Society can be found at [www.aas.org](http://www.aas.org), while the site of the Royal Astronomical Society in the UK is at [www.ras.org.uk](http://www.ras.org.uk). In addition, many sites provide material intended for reference or teaching. To take three different examples—the Lunar and Planetary Institute at [www.lpi.usra.edu](http://www.lpi.usra.edu) covers the solar system; there is student astronomical information at [seds.lpl.arizona.edu](http://seds.lpl.arizona.edu); and a general directory with good astronomical links can be found at [dmoz.org](http://dmoz.org). A search engine, such as Google, will bring up many more.

## Chapter 1

B.W. Carroll and D.A. Ostlie, *An introduction to modern astrophysics* (Addison-Wesley, Reading; 1996).

- A.N. Cox, W.C. Livingston, and M.S. Matthews (eds.), *Solar interior and atmosphere* (University of Arizona Press, Tucson; 1991).
- C.P. Sonett, M.S. Giampapa, and M.S. Matthews (eds.), *The Sun in time* (University of Arizona Press, Tucson; 1991).
- R.J. Tayler, *The Sun as a star* (Cambridge University Press, Cambridge; 1997).

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- J.B. Murphy and R.D. Nance, How do supercontinents assemble? *American Scientist* Vol. 92, pp. 324–333 (2004).
- R.D. Nance, T.R. Worsley, and J.B. Moody, The supercontinent cycle. *Scientific American* Vol. 259, pp. 44–51 (July 1988).
- B.J. Skinner and S.C. Porter, *The dynamic Earth* (John Wiley, Chichester; 2000).

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- C.M. Goodess, J.P. Palutikof, and T.D. Davies, *The nature and causes of climate change* (Belhaven Press, London; 1992).
- T.E. Graedel and P.J. Crutzen, *Atmospheric change* (W.H. Freeman, New York; 1993).
- B. Montesinos, A. Gimenez, and E.F. Guinan (eds.), *The evolving Sun and its influence on planetary environments* (Astronomical Society of the Pacific, San Francisco; 2002).
- P.D. Ward and D. Brownlee, *The life and death of planet Earth* (Times Books, New York; 2002).
- G.E. Williams, History of the Earth's obliquity. *Earth Science Reviews* Vol. 34, pp. 1–46 (1993).

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- J. Bloxham and D. Gubbins, The evolution of the Earth's magnetic field. *Scientific American* Vol. 261, pp. 30–37 (December 1989).
- J.W. Geissman, Geomagnetic flip. *Physics World* Vol. 17, pp. 31–35 (2004).
- G.A. Glatzmaier and P. Olsen, Probing the geodynamo. *Scientific American* Vol. 292, pp. 33–39 (April 2005).

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- P.R. Wilson, *Solar and stellar activity cycles* (Cambridge University Press, Cambridge; 1994).

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- L. Becker, Repeated blows. *Scientific American* Vol. 286, pp. 62–69 (March 2002).
- D.A. King and D.D. Dyrda, The day the world burned. *Scientific American* Vol. 289, pp. 70–77 (December 2003).
- M.Ya. Marov and H. Rickman (eds.), *Collisional processes in the solar system* (Kluwer, Dordrecht; 2001).
- P.R. Weissman, The Oort cloud. *Scientific American* Vol. 279, pp. 62–67 (September 1998).

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- J.K. Beatty, C.C. Petersen, and A. Chaikin, *The new solar system* (Cambridge University Press, Cambridge; 1999).
- S. Ferraz-Mello, *Chaos, resonance and collective dynamical phenomena in the solar system* (Kluwer, Dordrecht; 1992).
- S.R. Taylor, *Solar system evolution* (Cambridge University Press, Cambridge; 1992).
- P.R. Weissman, L.-A. McFadden, and T. Johnson (eds.), *Encyclopedia of the solar system* (Academic Press, London; 1999).

## Chapter 7

- C. Chiappini, The formation and evolution of the Milky Way. *American Scientist* Vol. 89, pp. 506–515 (2001).
- G. Gonzalez, D. Brownlee, and P.D. Ward, Refuges for life in a hostile universe. *Scientific American* Vol. 285, pp. 52–59 (October 2001).
- N. Henbest and H. Couper, *The guide to the Galaxy* (Cambridge University Press, Cambridge; 1994).
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- R. Smoluchowski, J.N. Bahcall, and M.S. Matthews (eds.), *The Galaxy and the solar system* (University of Arizona Press, Tucson; 1986).
- B.P. Walker and P. Richter, Our growing, breathing Galaxy. *Scientific American* Vol. 290, pp. 28–37 (January 2004).

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- R.S. Ellis, R.G. Abraham, J. Brinchmann, and F. Menanteau, The story of galaxy evolution in full colour. *Astronomy & Geophysics* Vol. 41, pp. 2.10–2.16 (2000).
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- S. van den Bergh, *The galaxies of the Local Group* (Cambridge University Press, Cambridge; 1999).
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- A. Dekel and J.P. Ostriker (eds.), *Formation of structure in the universe* (Cambridge University Press, Cambridge; 1999).
- A. Fairall, *Large-scale structures in the universe* (John Wiley, Chichester; 1998).
- C.S. Frenk, G.E. Kalmus, N.J.T. Smith, and S.D.M. White (eds.), The search for dark matter and dark energy in the universe. *Philosophical Transactions of the Royal Society A* Vol. 361, pp. 2425–2627 (2003).

- A.G. Riess and M.S. Turner, From slowdown to speedup. *Scientific American* Vol. 290, pp. 50–55 (February 2004).
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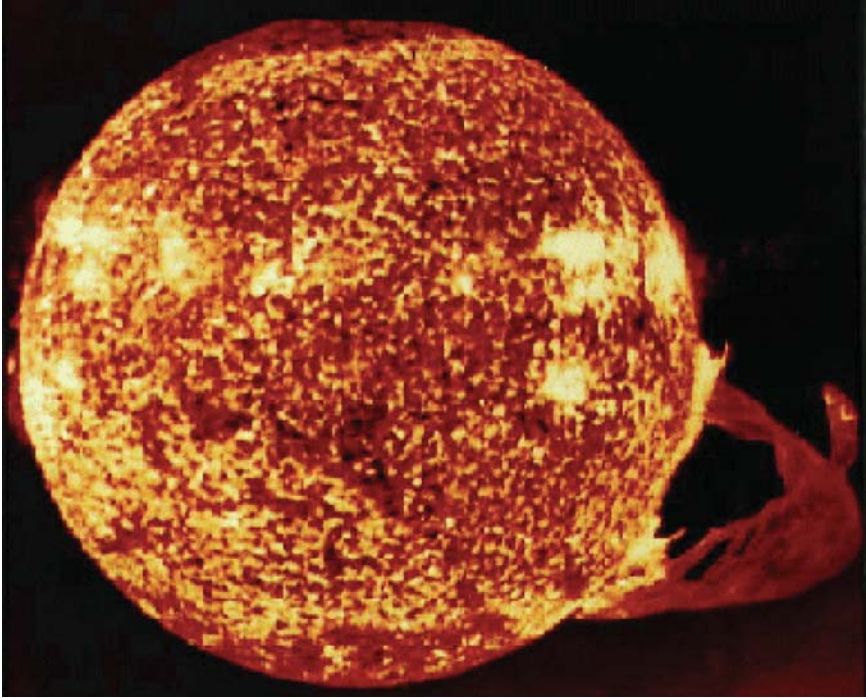
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**Plate 1** Activity on the Sun

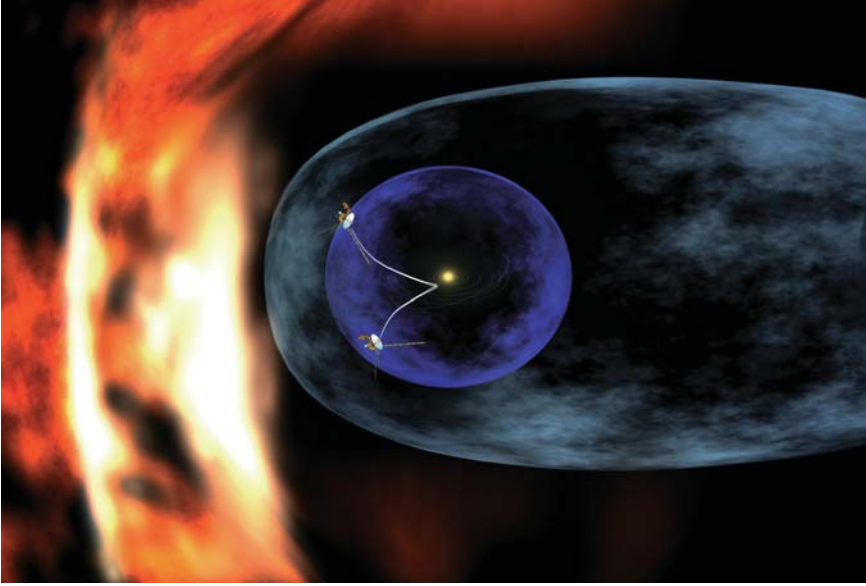


**Plate 2** Mount St. Helens erupting

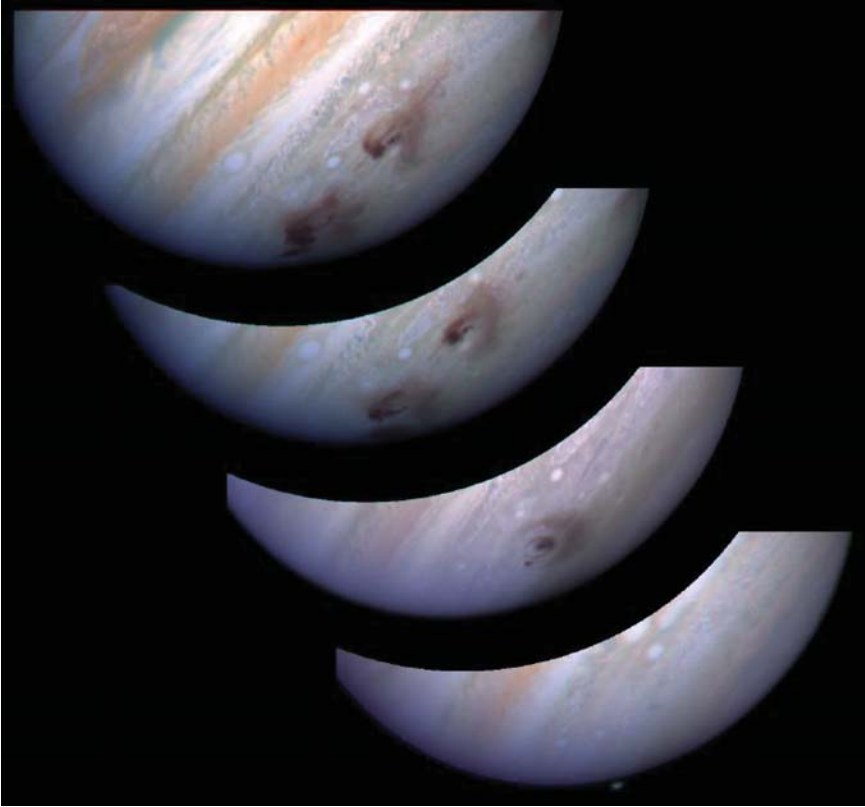


**Plate 3** Welcome to Planet Earth

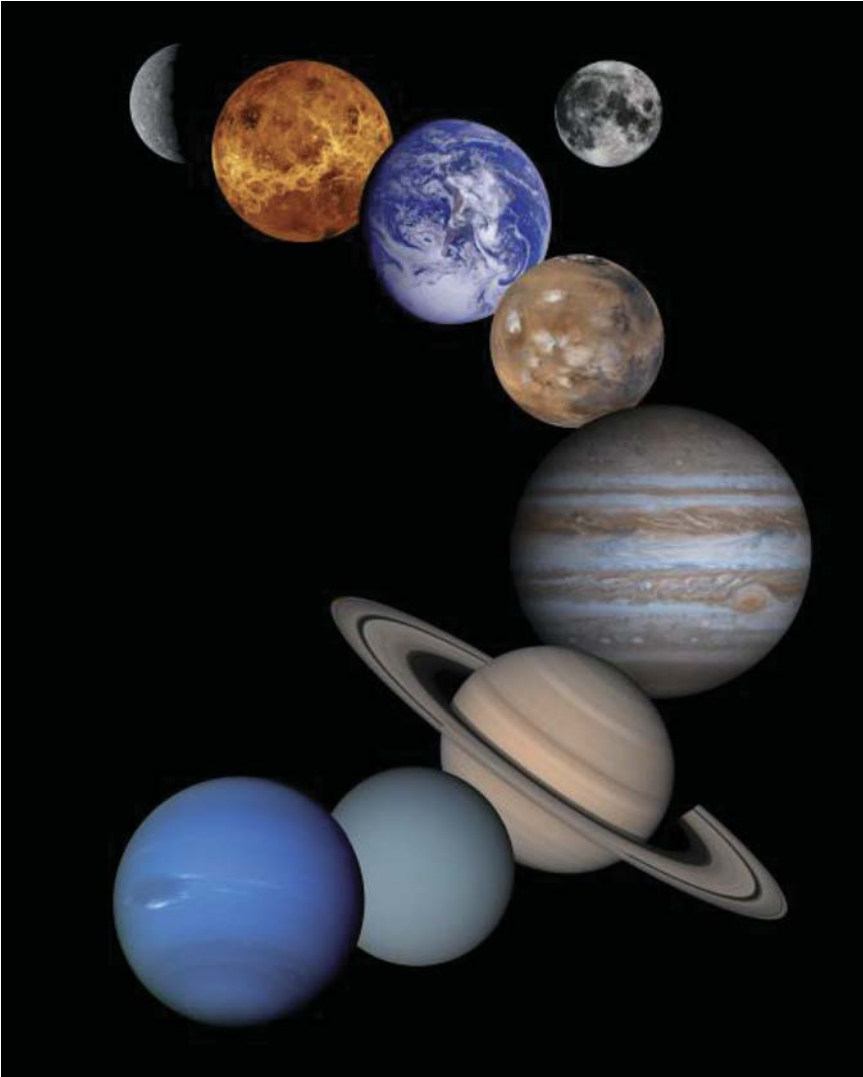
4 Color Plate



**Plate 4** The Voyager satellites reach 90 AU from the Sun



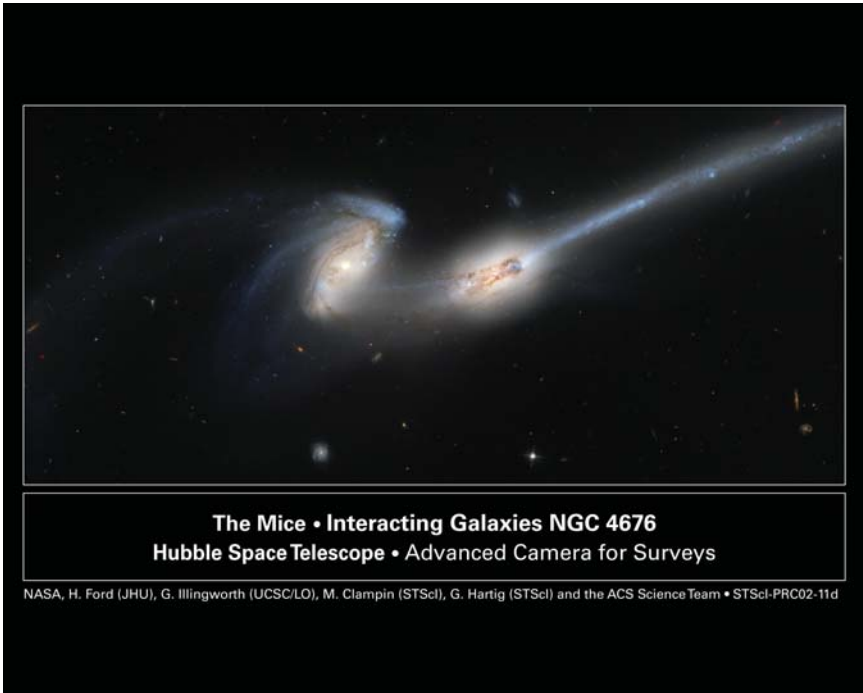
**Plate 5** Jupiter Swallows Comet



**Plate 6** Solar System Montage



Plate 7 Our Galaxy



**Plate 8** When galaxies collide



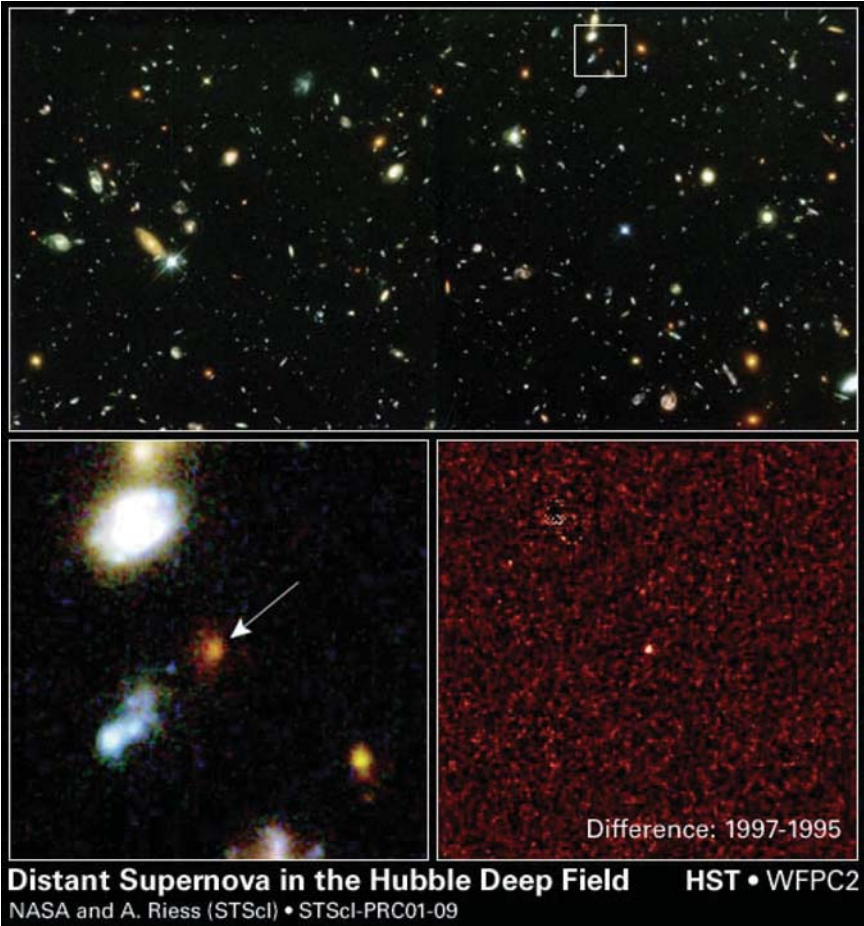


Plate 9 Distant Supernova, Dark Energy