URLs, References, and Sources

The following Web sites, references, and sources are valuable resources for additional research into the sun and solar wind.

URLs:

Auroras

http://www.acs.ucalgary.ca/-tstronds/satellites/html/aurora.html
This Web site offers information on auroras.

Electromagnetic Radiation/Spectroscopy

http://comptons3.aol.com/encyclopedia/ARTICLES/04489_A.html#100193e
A Web site on electromagnetic radiation and spectroscopy.

http://comptons3.aol.com/encyclopedia/ARTICLES/100193e_P.html
An encyclopedia article on-line titled "Emission and Absorption Spectra of Various Light Sources."

http://www.scimedia.com/chem-ed/ms/ms-intro.htm
A World Wide Web site that offers an introduction to mass spectrometry.

http://www.sisweb.com/cgi-bin/mass10.pl
A site about generating mass spectra.

Fraunhofer Lines

http://imagine.gsfc.nasa.gov/docs/science/know_l1/cool_sun_fact.html
A NASA site offering information about Fraunhofer lines.

http://thor.nmsu.edu/education/lab110g/html/AFRANHFER.html
This site is about observing Fraunhofer lines.

Solar Wind

[1] http://cass.jsc.nasa.gov/expmoon/Apollo11/A11_Experiments_SWC.html
[2] http://cass.jsc.nasa.gov/expmoon/Apollo14/A14_Experiments_SWC.html
[3] http://cass.jsc.nasa.gov/expmoon/Apollo15/A15_Experiments_SWC.html
[4] http://cass.jsc.nasa.gov/expmoon/Apollo16/A16_Experiments_SWC.html
These sites feature solar wind composition experiments—Apollo missions.

http://ulysses.jpl.nasa.gov
A NASA site on the Ulysses satellite mission—solar wind (includes general written references on the solar wind).

http://umbra.nascom.nasa.gov/spartan/the_solar_wind.html
A NASA site on the Spartan satellite mission—solar wind.

The Sun

http://www.agu.org/revgeophys/ogilvi00/node3.html
A Web site about solar composition.

http://seds.lpl.arizona.edu/nineplanets/nineplanets/sol.html
A Web site about the sun.

http://www.sel.noaa.gov/solar_images/ImageIndex.cgi
A site dedicated to tracking sunspots.

http://sohowww.estec.esa.nl/
A Web site that features the solar and heliospheric observatory (SOHO).

Neutrinos

http://www.ps.uci.edu/~superk/oscillation.html
A site about the weird nature of neutrinos.

http://www.ps.uci.edu/~superk/glossary.html
A Web site that offers information on neutrinos.

Additional Resources

http://genesismission.jpl.nasa.gov
The Genesis mission Web site.

http://nssdc.gsfc.nasa.gov/
The National Space Science Data Center homepage.

http://pao.gsfc.nasa.gov/gsfc/lithos/wind/wind.htm
A NASA Web site about wind spacecraft.

RECOMMENDED REFERENCES

Books

Allen, C. W. (1973). Astrophysical Quantities. London: The Athlone Press.
Good source book for Sun data.

Asimov, I. (1993). Guide to Earth and Space Science. New York: Ballentine Books.
Paperback edition, question and answer format. Provides short, non-technical answers to many questions.

Bahcall, J. N. (1989). Neutrino Astrophysics. New York: Cambridge University Press.
An important book, but technical in nature.

Frazie, K. (1982). Our Turbulent Sun. Englewood Cliffs, NJ: Prentice-Hall.
Popular account.

Friedman, H. (1986). Sun and Earth. Scientific American Books. New York: W. H. Freeman and Co.
Very good, readable popular account.

Giovanelli, R. G. (1984). Secrets of the Sun. New York: Cambridge University Press.
Excellent general resource.

Gribben, J. (1991). Blinded By The Light. New York: Harmony Books.
Traces historical development. Written in engaging style for the non-technical reader.

Hufbauer, K. (1991). Exploring the Sun, Solar Science Since Galileo. Baltimore: Johns Hopkins University Press.
Historical account—good for solar wind.

Kippenhahn, R. (1994). Discovering the Secrets of the Sun. New York: John Wiley and Sons.
Popular book for the advanced general reader.

Lang, K. R. (1995). Sun, Earth and Sky. New York: Springer.
Nicely written and beautifully illustrated. Up-to-date and written for the general reader. Highly recommended.

Lang, K. R., & Gingerich, O. (1979). Source Book in Astronomy and Astrophysics 1900-1975. Cambridge, MA: Harvard University Press.
A history of modern astronomy.

Phillips, K. J. H. (1992). Guide to the Sun. Cambridge, England: Cambridge University Press.
A very readable, excellent resource written at a somewhat technical level. Suitable for motivated high school students.

Smithsonian Institution. (1981). Fire of Life. New York: W. W. Norton and Company.
Excellent popular resource.

Time Life Books, Inc. (1990). The Sun. New York: Author.
Well illustrated and very readable. Written for the non-technical reader.

Taylor, P. O. (1981). Observing the Sun, New York: Cambridge University Press.
Good resource for students who might be interested in observing the sun.

Articles

Bahcall, J. N. & Pinsonneault, M. H. (1992). Reviews of Modern Physics. 64, 885.
Highly technical.

Bahcall, J. N. & Ulrich, Roger K. (1988). Reviews of Modern Physics. 60, 297.
Highly technical.

Keller, C. & Wang, Y. (1994). A Golden Oldie-A Black Box Circuit. The Physics Teacher. 32, 222.

Latner, A. G. (1998, November). Catching the Wind from the Sun. ANALOG. 34-42.

Thompson, K. (1996). An Easy-to-Build Spectroscope. Physics Education. 31, 382.

Sources

Edmund Scientific Company
101 E. Gloucester Pike, Barrington, NJ 08007-1380
Phone: 1-800-728-6999