Astronomy Resources

By

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This June 2006 column Astronomy Resources is a comprehensive list of astronomical resources and sites on the Internet including astronomy resources, astrophysics resources, bioastronomy resources, radio astronomy resources, and roboscopes. As a youngster my hobby was astronomy and I was fortunate enough to own an eight inch Astrolla reflector telescope. I was able to observe many of the celestial heavenly bodies using right ascension and declination setting circles mounted to the telescope along with a clockdrive. Today’s telescopes are far more powerful, smaller in size and come complete with computer assisted finding of all those neat astronomical objects! You can even use remote telescopes over the Internet! The below list of sources is taken from my current Subject Tracer™ Information Blog titled Astronomy Resources and is constantly updated with Subject Tracer™ bots at the following URL:

http://www.AstronomyResources.info/

These resources and sources will help you to discover the many pathways available to you through the Internet for obtaining and locating astronomical resources.

ASTRONOMY RESOURCES

2MASS - 2 Micron All Sky Survey at UMass
http://pegasus.astro.umass.edu/GradProg/2mass.html

2MASS at IPAC
http://www.ipac.caltech.edu/2mass/

2MASS Second Incremental Data Release Gallery
http://www.ipac.caltech.edu/2mass/gallery/second/
Abrams Planetarium - Skywatcher's Diary
http://www.pa.msu.edu/abrams/diary.html

ADS Astronomy Custom Query Form
http://adsabs.harvard.edu/abstract_service.html

American Association of Variable Star Observers - AAVSO
http://www.aavso.org/

American Astronomical Society
http://www.aas.org/

An Atlas of The Universe
http://anzwers.org/free/universe/

Ancient Observatories
http://www.exploratorium.edu/ancientobs/

Armagh Observatory
http://www.arm.ac.uk/home.html

Astronomical & Nightscape Photography by Chris Cook
http://www.abmedia.com/astro/

Astronomical League
http://www.astroleague.org/

Astronomical Resources on the Web
http://www.istl.org/02-spring/internet2.html

Astronomical Society of the Pacific
http://www.astrosociety.org/

Astronomy.com
http://www.astronomy.com/

AstronomyCenter.org
http://www.AstronomyCenter.org/

Astronomy Education and Outreach
http://cassfos02.ucsd.edu/public/astroed.html
Astronomy Education Review
http://aer.noao.edu/

Astronomy Internet Resources
http://snipurl.com/4su1

astronomylinks.com - Astronomy and Space Links
http://astronomylinks.com/index.htm

Astronomy Notes
http://www.astronomynotes.com/

Astronomy Online™
http://www.AstronomyOnline.org/

Astronomy Picture of the Day
http://antwrp.gsfc.nasa.gov/apod/

Astronomy Picture of the Day's Educational Links

Astrophysical Virtual Observatory
http://www.euro-vo.org/

AstroTurtle's Amateur Astronomy Page
http://www.astroturtle.com/

AstroWeb: Astronomical Internet Resources
http://www.stsci.edu/science/net-resources.html

Australian Centre for Astrobiology
http://aca.mq.edu.au/

Bad Astronomy by Phil Plait
http://www.badastronomy.com/

Brian's Space Hot List
http://www.ssl.umd.edu/space/

Chandra X-Ray Observatory - Photo Album - Chandra Images by Date
http://chandra.harvard.edu/photo/chronological.html
Clear Sky Institute
http://www.clearskyinstitute.com/

Cometography
http://www.cometography.com/

Cool Cosmos
http://coolcosmos.ipac.caltech.edu/index.html

Cornell University: Curious About Astronomy? Ask An Astronomer
http://curious.astro.cornell.edu/index.php

Cosmic Distance Scales
http://heasarc.gsfc.nasa.gov/docs/cosmic/cosmic.html

Cosmochemistry
http://www.higp.hawaii.edu/ccp/

Current Space Weather
http://sohowww.nascom.nasa.gov/spaceweather/

http://www.virtualcolony.com/sac/

Dictionary of Nomenclature of Celestial Objects
http://vizier.cfa.harvard.edu/viz-bin/Dic

Down To Earth Astronomy
http://oposite.stsci.edu/

Earth & Sky
http://www.earthsky.com/

Earth View
http://www.fourmilab.ch/cgi-bin/uncgi/Earth/action?op=-s

Encyclopedia Astronautica
http://www.astronautix.com/
The Encyclopedia of Astrobiology, Astronomy, and Spaceflight
http://www.daviddarling.info/encyclopedia/ETEmain.html

Eric Weisstein's World of Astronomy
http://scienceworld.wolfram.com/astronomy/

ESO - The European Southern Observatory
http://www.eso.org/

Famous Astronomers and Astrophysicists
http://cnr2.kent.edu/~manley/astronomers.html

Galaxies
http://zillman.blogspot.com/2005/04/galaxies.html

Galaxy Evolution Explorer (GALEX)
http://www.galex.caltech.edu/

Galileo Project
http://galileo.jpl.nasa.gov/index.cfm

Gary's Astronomy Homework
http://members.aol.com/gca7sky/astrohelp.htm

GISS: Goddard Institute for Space Studies at Columbia University in New York
http://www.giss.nasa.gov/

Google Directory - Science - Astronomy
http://directory.google.com/Top/Science/Astronomy/

Heavens-Above
http://www.heavens-above.com/

HubbleSite
http://www.HubbleSite.org/

Institute of Meteoritics
http://epswww.unm.edu/iom/

International Association of Astronomical Artists
http://www.iaaa.org
International Outer Planet Watch  
http://www-ssc.igpp.ucla.edu/IJW/

Journey Through the Galaxy  
http://home.cwru.edu/~sjr16/advanced/index.html

kuro5hin.org Mars in 186 Seconds  

Lunar and Planetary Information Bulletin  
http://www.lpi.usra.edu/publications/newsletters/

Lunar and Planetary Science at the NSSDC  
http://nssdc.gsfc.nasa.gov/planetary/planetary_home.html

Lunar Orbiter Photographic Atlas of the Moon  
http://www.lpi.usra.edu/research/lunar_orbiter/

Mars Exploration Rover Mission - Spirit and Opportunity  
http://marsrovers.jpl.nasa.gov/home/index.html

Mars Global Surveyor Mars Orbiter Camera Image Gallery  

Mars Global Surveyor MOC2-320 Release  
http://www.msss.com/mars_images/moc/e7_e12_captioned_rel/

MARSOWEB - Mars Exploration Program Landing Sites  
http://marsoweb.nas.nasa.gov/landingsites/index.html

Meteor Showers  
http://zillman.blogspot.com/2005/05/meteor-showers.html

Moon, Mars and Beyond  
http://www.nasa.gov/missions/solarsystem/explore_main.html

Multimission Archive at Space Telescope (STScI)  
http://archive.stsci.edu/

NASA - JPL Solar System Simulator  
http://samadhi.jpl.nasa.gov/
NASA Sun Earth Media Viewer: Live Solar Images
http://ds9.ssl.berkeley.edu/viewer/flash/flash.html

National Virtual Observatory
http://www.us-vo.org/

NetAstroCatalog - A Mailing List For "Deep Sky" Observers Of All Levels
http://www.visualdeepsky.org/

Open Directory - Science: Astronomy
http://dmoz.org/Science/Astronomy/

Planetary Picture List
http://seds.lpl.arizona.edu/nineplanets/nineplanets/picturelist.html

Planetary Photojournal: NASA's Image Access
http://photojournal.jpl.nasa.gov/

PlanetScapes
http://planetscapes.com/

Publications of the Astronomical Society of Australia
http://www.atnf.csiro.au/pasa/

QuickCam and Unconventional Imaging Astronomy Group
http://www.qcuiag.co.uk/

Research School of Astronomy and Astrophysics - RSAA

Science @ NASA : Astronomy
http://science.msfc.nasa.gov/Astronomy.htm

SEDS Messier Database
http://www.seds.org/messier/

SIMBAD Astronomical Database
http://simbad.harvard.edu/cgi-bin/WSimbad.pl

Sky and Telescope Magazine
http://www.skypub.com/
Sky and Telescope News  

SkyMap Software  
http://www.skymap.com/

Sloan Digital Sky Survey - SkyServer  
http://www.sdss.org/

Solar System Views  
http://www.solarviews.com/

Solar Terrestrial Dispatch  
http://www.spacew.com/

Space Calendar (JPL)  
http://www2.jpl.nasa.gov/calendar/calendar.html

Spaceflight Now  
http://www.spaceflightnow.com/

Space Science and Astronomy News  
http://www.space.com/scienceastronomy/

SpaceWeather  
http://www.spaceweather.com/

Space Weather Now  
http://www.sec.noaa.gov/SWN/

Spitzer Space Telescope  
http://www.spitzer.caltech.edu/

Starry Night Astronomy Software  
http://www.starrynight.com/

Stellarium  
http://stellarium.sourceforge.net/

The Astronomer Magazine  
http://www.theastronomer.org/
The ESA/ESO/NASA Photoshop FITS Liberator

The Meteoritical Society
http://www.meteoriticalsociety.org/

The Nine Planets - A Multimedia Tour of the Solar System
http://www.nineplanets.org/

The Solar and Heliospheric Observatory
http://soho.nascom.nasa.gov/

The Virtual Amateur Astronomer®
http://www.jupiterscientific.org/virtualastronomer/

The Web Nebulae
http://www.seds.org/billa/twn/

Universe Measured: We're 156 Billion Light-years Wide by Robert Roy Britt
http://www.space.com/scienceastronomy/mystery_monday_040524.html

USGS Astrogeology Research Program
http://astrogeology.usgs.gov/

Venus Transit
http://zillman.blogspot.com/2004_05_01_zillman_archive.html#108576106074833301

Views of the Solar System
http://www.solarviews.com/

View to the Edge of No-Return
http://www.astrobio.net/news/article835.htm

Virtual Sky!
http://virtualsky.org/index.html

WebStars: Astrophysics in Cyberspace
http://heasarc.gsfc.nasa.gov/docs/outreach/webstars.html

WISE: Wide-field Infrared Survey Explorer
http://wise.ssl.berkeley.edu/
World Sunlight Map
http://www.die.net/earth/

Yahoo Directory Science - Astronomy
http://dir.yahoo.com/Science/astronomy/

Your Sky
http://www.fourmilab.to/yoursky/

ASTROPHYSICS

Astronomy Research at Rutgers
http://www.physics.rutgers.edu/ast/ast-research.html

Astrophysics Simulation Collaboratory
http://wugrav.wustl.edu/ASC/

AstroWeb: Astronomy/Astrophysics on the Internet
http://fits.cv.nrao.edu/www/astronomy.html

Computational Astrophysics: Digital Demo Room
http://rainman.astro.uiuc.edu/ddr/

Google Directory - Science - Physics - Astrophysics
http://directory.google.com/Top/Science/Physics/Astrophysics/

Inside Einstein's Universe
http://cfa-www.harvard.edu/seuforum/einstein/

Harvard-Smithsonian Center for Astrophysics
http://cfa-www.harvard.edu/

Inter-University Centre for Astronomy and Astrophysics (IUCAA)
http://iucaa.ernet.in/

NASA AstroPhysics Data System (ADS)
http://adswww.harvard.edu/
Ned Wright's Cosmology Tutorial  
http://www.astro.ucla.edu/~wright/cosmolog.htm

Ohio State University-Astrophysics and Cosmology  
http://www.physics.ohio-state.edu/~astro/

Open Directory - Science: Physics: Astrophysics  
http://dmoz.org/Science/Physics/Astrophysics/

Physics and Astronomy - PhysLink.com  
http://www.physlink.com/

STARBASE - Topics in AstroPhysics and Cosmology  
http://www.ph.surrey.ac.uk/astrophysics/files/home.html

StarDate Online  
http://stardate.org/

The SuperString Theory  
http://www.superstringtheory.fanspace.com/

WebStars: Astrophysics in Cyberspace  
http://heasarc.gsfc.nasa.gov/docs/www_info/webstars.html

BIOASTRONOMY

AstroBiology and SETI - Papers, Articles and Essays  
http://www.nidsci.org/articles/articles3.php

AstroBiology Curriculum  
http://astrobio.terc.edu/

Astrobiology Journal  
http://www.liebertonline.com/loi/ast

Astrobiology Magazine :: Search for Life in the Universe  
AstroBiology at NASA
http://astrobiology.arc.nasa.gov/

AstroBiology Web
http://www.AstroBiology.com/

Astromaterials Curation
http://www.geo-guide.de/cgi-bin/ssgfi/anzeige.pl?db=geo&nr=001517&ew=SSGFI

Bioastronomy 2004
http://bioastronomy2004.os.is/

Bioastronomy - The Net Advance of Physics
http://snipurl.com/4tby

IAU COMMISSION 51 - Bioastronomy: Search for Extraterrestrial Life
http://www.ifa.hawaii.edu/~meech/iau/

SETI and Astrobiology
http://www.space.com/searchforlife/seti_astrobiology_030529.html

SETI - The Planetary Society
http://seti.planetary.org/

RADIO ASTRONOMY

AIPS (Astronomical Information Processing System)
http://freshmeat.net/projects/aips/?branch_id=168&release_id=179046

Atacama Large Millimeter Array (ALMA)
http://www.eso.org/projects/alma/

Basics of Radio Astronomy
http://www2.jpl.nasa.gov/radioastronomy/

Committee on Radio Astronomy Frequencies
http://www.astron.nl/craf/
Duel of the Winds

e-MERLIN
http://www.merlin.ac.uk/e-merlin/introduction2.html

European Radio Astronomy Club
http://www.eracnet.org/

European VLBI Network
http://www.evlbi.org/

Gallery of Radio Telescopes
http://www.nro.nao.ac.jp/~kotaro/RTs/rts.html

GAVRT - Lewis Center for Educational Research

Google Directory - Radio Astronomy
http://directory.google.com/Top/Science/Astronomy/Amateur/Radio_Astronomy/

Jodrell Bank Observatory - VLBI Group
http://www.jb.man.ac.uk/vlbi/

LOFAR
http://www.lofar.org/

National Astronomy and Ionosphere Center: Arecibo Observatory
http://www.naic.edu/

National Radio Astronomy Observatory
http://www.nrao.edu/

Open Directory - Radio Astronomy
http://www.dmoz.org/Science/Astronomy/Amateur/Radio_Astronomy/

Radio Astronomy for Scientists Teachers and Students
http://www.radiosky.com/

Radio Astronomy Internet Resources
http://www.cv.nrao.edu/fits/www/yp_radio.html
Radio Astronomy Meteor Scatter Detection
http://page.to/meteor/

Radio Astronomy Supplies
http://www.nitehawk.com/rasmit/ras.html

RadioNet
http://www.radionet-eu.org/

Radiophysics and Quantum Electronics
http://www.springerlink.com/link.asp?id=106492

SARA: Society of Amateur Radio Astronomers
http://www.qsl.net/SARA/

ROBOSCOPES

Automatic Astronomy: New Robotic Telescopes See and Think
http://snipurl.com/4tds

Bradford Robotic Telescope
http://www.telescope.org/

eSTAR Project
http://www.estar.org.uk/

Iowa Robotic Telescope Facilities
http://phobos.physics.uiowa.edu/index.shtml

Links to Robotic Telescope Projects
http://alpha.uni-sw.gwdg.de/~hessman/MONET/links.html

Liverpool Telescope
http://telescope.livjm.ac.uk/

Lowell Education Online
http://kraken.lowell.edu/leo.php
NSO: The National Schools Observatory  
http://www.glam.ac.uk/roccoto/observatory.php

Rent-a-scope  
http://www.arniersner.com/are/index.htm

Robotic and Remotely Controlled Telescopes  
http://www.phys-astro.sonoma.edu/observatory/roboscope/the_list.html

ROTSE - Robotic Optical Transient Search Experiment  
http://www.rotse.net/

SLOOH - Astronomy, Remote Control Telescopes, Observatories, View the Universe  
http://www.slooh.com/homejs.jsp

Telescope Technologies Ltd  
http://www.ngat.com/

The Faulkes Telescope Project  
http://www.faulkes-telescope.com/

The National Academies Space Studies Board  
http://www7.nationalacademies.org/ssb/index.html

UCSB Remote Access Astronomy  
http://www.physics.ucsb.edu/~jatila/raap/cmb_ppt.html

Yahoo Groups - RoboScope  
http://groups.yahoo.com/group/RoboScope/
Subject Tracer™ Information Blogs

Subject Tracer™ Information Blogs created and developed by the Virtual Private Library™ combine the best of the latest tools on the Internet. Using bots, blogs and news aggregators the Subject Tracer™ Information blogs generate RSS feeds with the latest resources to create a current information resource flow through niched subject tracers. I am proud to be the creator of the Internet’s first Subject Tracer™ Information Blogs:

Virtual Private Library™
http://www.VirtualPrivateLibrary.com/

Accessibility Resources
http://www.AccessibilityResources.info/

Agriculture Resources
http://www.AgricultureResources.info/

Artificial Intelligence Resources
http://www.AIResources.info/

Astronomy Resources
http://www.AstronomyResources.info/

Auction Resources
http://www.AuctionResources.info/

Biological Informatics
http://www.BiologicalInformatics.info/

Bot Research
http://www.BotResearch.info/

Business Intelligence Resources
http://www.BIResources.info/

ChatterBots
http://www.ChatterBots.info/

Data Mining Resources
http://www.DataMiningResources.info/
Deep Web Research
http://www.DeepWebResearch.info/

Directory Resources
http://www.DirectoryResources.info/

eCommerce Resources
http://eCommerceResources.info/

Elder Resources
http://www.ElderResources.info/

Employment Resources
http://www.EmploymentResources.info/

Entrepreneurial Resources
http://www.EntrepreneurialResources.info/

Financial Sources
http://www.FinancialSources.info/

Finding People
http://www.FindingPeople.info/

Games Resources
http://www.GamesResources.info/

Genealogy Resources
http://www.GenealogyResources.info/

Grant Resources
http://www.GrantResources.info/

Grid Resources
http://www.GridResources.info/

Healthcare Resources
http://www.HealthcareResources.info/

Information Futures Markets
http://www.InformationFutureMarkets.com/
Social Informatics
http://www.SocialInformatics.info/

Statistics Resources
http://www.StatisticsResources.info/

Student Research
http://www.StudentResearch.info/

Theology Resources
http://www.TheologyResources.info/

Tutorial Resources
http://www.TutorialResources.info/

World Wide Web Reference
http://www.WWWReference.info/

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**Virtual Private Library™**

The Virtual Private Library™ is powered by Subject Tracer™ Bot™ that continuously search, monitor and update for custom virtual library subjects that are listed as an unique ontology subject tree and directory including resource utilization of blogs, white papers, and news aggregator.

Monday, March 27, 2006

**Virtual Private Library™ Information and Specifications - Subject Tracer™ Information Blogs**

The Virtual Private Library™ contains private libraries powered by Subject Tracer Information Bot™ on various subjects and developed exclusively by Bob Knowles and Guru Marcus P. Zillman, M.S., A.M.H.A. The Virtual Private Library™ is also available for custom subjects created by personal, professional and corporate utilization through the internet or virtual private networks. Marcus P. Zillman operates the Virtual Private Library™ with the support of his son John Zillman.

Current Subject Tracer™ Information Blogs:

- Accessibility Resources
  http://www.AccessibilityResources.info/
- Agriculture Resources
  http://www.AgricultureResources.info/
- Artificial Intelligence Resources
  http://www.AiResources.info/
- Astronomy Resources
  http://www.AstronomyResources.info/
- Auction Resources

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**Figure 2 Virtual Private Library™**

June 2006 Zillman Column – Astronomy Resources
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© 2006 Marcus P. Zillman, M.S., A.M.H.A.
Author Information: Marcus P. Zillman, M.S., A.M.H.A. Executive Director of the Virtual Private Library is an international Internet expert, author, keynote speaker and corporate consultant in the area of information retrieval, knowledge discovery, knowledge harvesting, artificial intelligence and bots/intelligent agents. He has created numerous world wide web sites including 46 Subject Tracer™ Information Portals and Blogs; written a number of internet miniguides, white papers, manuals and books; hosted over 160 weekly Internet television shows, writes a weekly and monthly column on Current Awareness on the Internet; writes a monthly newsletter Awareness Watch and delivers keynote presentations throughout the international marketplace. He also actively delivers one and two day workshops for key industry sectors displaying how the Internet can be used as a tool to maintain current awareness and professional competencies. Additional websites by Marcus P. Zillman, M.S., A.M.H.A.:

Marcus P. Zillman's Blog
http://www.zillman.us/

Marcus P. Zillman Abbreviated Bio
http://marcuszillman.blogspot.com/

White Papers by Marcus P. Zillman
http://www.WhitePapers.us/

Internet MiniGuides™ 2005
http://www.InternetMiniguide.com/

Awareness Watch™ Newsletter
http://www.AwarenessWatch.com/

Marcus P. Zillman's Columns
http://www.ZillmanColumns.com

eCurrent Awareness Resources™ 2005 Business Intelligence Report
http://www.eCurrentAwareness.com/

Internet Sources™ Manual
http://www.InternetSources.info/

Links By Marcus™
http://www.LinksByMarcus.com/
Workshops By Marcus™
http://www.WorkshopsByMarcus.com/

SourceSeries Internet Research Workshops
http://www.SourceSeries.com/

Watch Marcus™
http://www.WatchMarcus.com/

listen to marcus™
http://www.ListenToMarcus.com

Research White Papers, Articles, Lectures and Speeches by Marcus P. Zillman, M.S., A.M.H.A.:

Academic and Scholar Search Engines and Sources

Bots, Blogs and News Aggregators
http://www.BotsBlogs.com/

Business Intelligence Online Resources
http://zillman.blogspot.com/2005/04/business-intelligence-online-resources.html

Current Awareness Discovery Tools on the Internet

Deep Web Research 2006 Article - LLRX

Healthcare Bots and Subject Directories

Information Detective – Online Streaming Tutorial Videos
http://www.InformationDetective.com/

Knowledge Discovery Resources 2006

Lectures and Speeches by Marcus P. Zillman, M.S., A.M.H.A.
http://snipurl.com/57jp
Online Research Browsers  
http://zillman.blogspot.com/2004/10/online-research-browsers-internet.html

Online Research Tools  
http://zillman.blogspot.com/2004/09/online-research-tools.html

Online Social Networking  

Searching the Internet  
http://www.SearchingTheInternet.info/

Using the Internet As a Dynamic Resource Tool for Knowledge Discovery  

Web Data Extractors  

White Papers By Marcus P. Zillman, M.S., A.M.H.A.  
http://www.WhitePapers.us/

Internet Tutor by Marcus P. Zillman, M.S., A.M.H.A.  
http://www.InternetTutor.info/  
Visit this site to learn about the availability of Marcus P. Zillman to tutor you or your associate one on one in the privacy of your residence or office on the latest happenings of the Internet including Internet basics to advanced Internet searching using bots and creating your own personal blog

Internet Speaking by Marcus P. Zillman, M.S., A.M.H.A.  
http://www.InternetSpeaker.net  
Visit this site to learn about Marcus P. Zillman’s speaking engagements for your organization meetings and events. View and listen to his previous presentations as well as his weekly television shows

Internet Consulting by Marcus P. Zillman, M.S., A.M.H.A.  
http://InternetConsultant.BlogSpot.com/  
Visit this site to obtain information about obtaining the consultation services of Marcus P. Zillman for your company including eCommerce audits, utilization of bots, blogs and news aggregators or the creation of your own personal virtual private library powered by Subject Tracer™ Information bots!
Marcus P. Zillman’s latest 378 page manual Internet Sources™ is now available for purchase online and for immediate download. This book makes a great reference resource for the “newbie” to the Internet as well as the seasoned veteran “Internaut”. Visit the following site for additional information and online ordering fulfillment:

Internet Sources™ Manual
http://www.InternetSources.info

Marcus P. Zillman’s latest report eCurrent Awareness Resources 2005 is now available for purchase online and for immediate download. This report is a comprehensive listing of the latest resources, sources and sites for current awareness on the Internet. This is a must read for anyone who must stay current in their profession and/or business activity as the list of URLs will keep you at the leading edge of your career. Visit the following site for additional information and online ordering fulfillment:

eCurrent Awareness Resources 2005
http://www.ecurrentAwareness.com/