

Griffith Observer Cumulative Index

<u>author</u>	<u>title</u>	<u>mo year</u>	<u>key words</u>
Anonymous	The Romance of the Calendar	2 1937	calendar, Julian, Gregorian
Anonymous	Other Worlds than Ours	3 1937	Planets, Solar System
Anonymous	The Solar Family	3 1937	Planets, Solar System
Royal Elliott	Behind the Sciences	3 1937	GO, planetarium, exhibits,
Anonymous	The Stars of Spring	4 1937	Geological Clock
Anonymous	Pronunciation of Star and		Constellations, Stars,
Anonymous	Constellation Names	4 1937	Constellations, Stars
Anonymous	The Cycle of the Seasons	5 1937	Seasons, climate
Anonymous	The Ice Ages	5 1937	United States, Climate,
Anonymous	New Meteorites at the Griffith		Greenhouse Gases, Volcano,
Anonymous	Observatory	5 1937	Ice Age
Anonymous	Conditions of Eclipse	5 1937	Meteorites
Anonymous	Occurrences	6 1937	Solar eclipse, June 8, 1937,
Anonymous	Ancient and Modern Eclipse	6 1937	Umbra, Sun, Moon
Anonymous	Observations	6 1937	Chinese, Observation, Eclipse,
Anonymous	The Sky as Seen from Different		Relativity
Anonymous	Latitudes	6 1937	Stars, Celestial Sphere,
Anonymous	Laws of Polar Motion	6 1937	Equator, Pole, Latitude
Anonymous	The Polar Aurora	7 1937	Pole, Equator, Latitude
Anonymous	The Astrorama	7 1937	Northern lights, Aurora
Anonymous	The Life Story of the Moon	8 1937	Star map, Planisphere,
Anonymous	Conditions on the Moon	8 1937	Astrorama
Anonymous	The New Comet	8 1937	Moon, Earth's rotation, Darwin
Anonymous	Comets	9 1937	Moon, Temperature,
Anonymous	Meteors	9 1937	Comet Finsler
Anonymous	Comet Orbits	9 1937	Halley's Comet, Meteor
Anonymous	The Circular Zodiac of		Meteor Crater, Shower,
Anonymous	Denderah	10 1937	Leonids
Anonymous	Constellation Myths as Human		Comets, Encke
Anonymous	History	10 1937	Zodiac, Constellation
Anonymous	The October Demonstration	10 1937	Constellation, Lore, Myth
Anonymous	Two Recent Supernovae	10 1937	Constellation, Andromeda,
Anonymous	An Interesting Old Marine		Perseus, Pegasus, Cetus
Anonymous	Telescope	10 1937	Cassiopeia, Perseus,
Anonymous	Our Galaxy and Beyond	11 1937	Supernova, Tycho Brahe, Mira,
Anonymous	Star Clusters	11 1937	Telescope, Miller, Bradbrook,
Anonymous	The Wandering of the Pole	12 1937	Napoleon
Anonymous	The Fourth Dimension	12 1937	Galaxy, Magellanic Clouds,
Anonymous	A Preview of the 1938 Sky	1 1938	William Herschel, Milky Way,
Anonymous	The History of the Telescope.		Nebula
Anonymous	Part 1 of 3	1 1938	Cluster, Pleiades, Hyades
			Polaris, Precession
			Physics, Flatland, Hall of
			Science
			Planets, Constellations,
			Eclipses
			Galileo, Herschel, Telescope

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Anonymous	The Temperature of Stars	2 1938	Thermocouple, Black Body, Spectra, Thermopile
Anonymous	The History of the Telescope Part 2 of 3	2 1938	Herschel, Mount Wilson, Telescope, Yerkes, Refractor, Reflector
Anonymous	The Solar Spectrum	2 1938	Sun, Spectra, Fraunhofer, Kirchhoff, Wollaston
Anonymous	The Sun as a Star	3 1938	Sun, Star
Anonymous	The Earth and The Sun	3 1938	Earth, sun, Sunspots, Solar Telescope, Radio, Mount Wilson
Anonymous	The History of the Telescope	3 1938	Telescopes
Dr. Walter S. Adams	George E. Hale	4 1938	George Hale, Mount Wilson, Palomar Telescope,
Anonymous	The 200-Inch Telescope	4 1938	Construction
Anonymous	An Eclipse Expedition	5 1938	Yerbanis, Eclipse, Telescope
Anonymous	The Mythical Planet, Vulcan	5 1938	Vulcan, Planet
Anonymous	The Zeiss Optical Planetarium	1 1939	GO, Zeiss, planetarium, show Bessel, star, near, Cygni, parallax, Wolf 359, Doradus, dwarf
Anonymous	The Stars of Our Neighborhood	2 1939	star, magnitude, constellation,
Anonymous	The Stars of Winter	2 1939	observe, sky, telescope Arcturus, star, light, year, position, sky, observe,
Anonymous	The Visit of Arcturus to the Sun	3 1939	disappear, Schlesinger
Anonymous	Meteorites	3 1939	Meteorite, siderolite, asteroid, iron, atmosphere, retrieval Lick, observatory, refracting, telescope, construction,
Aitken, Robert	The Story of Lick Observatory Foretelling Eclipses by Simple Methods: The Amateur May Predict By Using only Addition and Subtraction	4 1939	Holden, Crossley, discoveries predict, eclipse, equation, solve, year, saros, perigee, apogee, synodic
Anonymous	Factors Which Produce our Climate	4 1939	atmosphere, climate, earth, particle, sun, temperature,
Anonymous	The Desert Meteor of November 16, 1938	5 1939	black body, variation meteor, sky, observe, report,
Pruett, Hugh J.		6 1939	fireball, search
Anonymous	The Story of Halley's Comet	6 1939	Halley, comet, return, Newton, Tycho, Clairaut
Anonymous	The Martian Dream	6 1939	Herschel, sketch, Mars, cloud, life, land, sea, irrigation, intelligence
Anonymous	Gulliver's Astronomers	7 1939	Swift, Gulliver, Hall, Mars,
Anonymous	Mars Comes Near Us	7 1939	Deimos, Phobos
Anonymous		7 1939	GO, planetarium, show star, observe, sky, telescope, Lyra, Cygnus, Aquila, Sagitta, Capricornus, Sagittarius, Scorpius, Hercules, Jupiter,
Anonymous	The Stars of Summer	8 1939	Saturn, meteor

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Anonymous	A World of the Hercules Cluster	8 1939	globular cluster, Hercules, dust, spectra, luminosity, distance, sky, observe
Anonymous	Refrigerators Of The Sun	9 1939	Sun, refrigerator, compare, temperature, photosphere, spot, magnetic
Anonymous	Exploring the Earth's Atmosphere	9 1939	Earth, atmosphere, Everest, explore, stratosphere, rocket, sound
Anderson, Carl David	Cosmic Rays	10 1939	cosmic, ray, x-ray, radioactivity, electroscope, discovery, World War I
Anonymous	Tides and the Moon	10 1939	Moon, tide, high, low
Poulter, Thos C.	Meteor Observations in the Antarctic	11 1939	Antarctic, expedition, Byrd, meteor, observatory, aurora
Anonymous	The Solar Telescopes of the Griffith Observatory	11 1939	GO, solar, telescope
Anonymous	The Galaxies of Space	12 1939	star, nearest, light year, Magellanic Cloud, Andromeda, nebula, galaxy, Cepheid
Anonymous	The Lunar Eclipse of October 27, 1939	12 1939	Moon, Sun, eclipse, observe, sky, telescope, partial
-	Index to Volume III, 1939	12 1939	GO, index
Leonard, Frederick C.	The Goose Lake Siderite: The Largest Known Meteorite of California	1 1940	meteor, California, Goose, Lake, siderite, Schmidt, investigation, Muroc, aerolite
Anonymous	The Sky of 1940	1 1940	Sky, telescope, observe, planet, star
Anonymous	Where will Saturn Be on January 1, 2440?	2 1940	Saturn, position, future, calculation, equation
Anonymous	How to find the Position of the Sun Among the Stars for Any day of the Year	2 1940	sky, position, Sun, solstice, summer, winter, ecliptic
Baumgardt, Mars F.	Amateurs and Telescopes of Early Southern California	3 1940	gold rush, railroad, Bliss, amateur, telescope, Baumgardt, Lowe, Swift, discovery, Griffith, Spalding, Hooker
-	Planetary Photographs from the Griffith Observatory	3 1940	GO, photo, planet
Anonymous	Causes of Eclipses	3 1940	eclipse, annular, moon, partial, phase, sun
Anonymous	Eight Thousand Eclipses of the Sun	3 1940	Sun, eclipse, history
Anonymous	The Variety of Stars	4 1940	Sirius, extreme, luminosity, temperature, weight, dwarf
Van Osdel, Edgar B.	The Spectroheliograph	4 1940	spectroheliograph, camera, sun, photo
Anonymous	The Griffith-Brackett Observatories Eclipse Expedition (The General Story)	5 1940	GO, Brackett, Mexico, Elliot, Navy, expedition, eclipse, Witney, Alter
Whitney, Walter T.	The Program Equipment, and Personnel of the Eclipse Expedition from the Frank P. Brackett of Pomona College	5 1940	equipment, expedition, eclipse, Mexico, Brackett, GO, telescope, camera, personnel

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Anonymous	Record of the Eclipse	5 1940	Eclipse, record, photograph, Zeiss,
Bissell, Malcolm H.	"Down Under" - The Antarctic Continent	6 1940	Antarctic, continent, Amundsen, size, climate, geography
Anonymous	Our Air and Other Gases	6 1940	air, atmosphere, gas, particles, Kaplan
Kaplan, Joseph	A Laboratory Nebula	6 1940	nebula, atmosphere, earth, element, excite, light, spectrum
Anonymous	William Herschel	7 1940	Herschel, life, telescope, Jupiter, Saturn, distance, star, Caroline
Leonard, Frederick C.	Meteorites or Immigrants from Space	8 1940	meteor, asteroid, siderite, aerolite, iron, discovery, retrieval
Anonymous	Comets and Meteors	8 1940	GO, planetarium, show
Anonymous	Observatories on the Moon?	9 1940	Moon, observatory, telescope, atmosphere, dark, sky, size
Anonymous	Double Stars	10 1940	binary, star, Herschel, Sirius, companion, visual, double, spectroscopic, eclipse, Algol
Anonymous	Astronomers Monument	10 1940	GO, Monument
Anonymous	Sunburned Mercury	11 1940	Mercury, surface, temperature, path, phase, observe, sky, telescope, transit
Anonymous	An Interesting New Comet	11 1940	Comet, Cunningham, observe, sky, telescope
Anonymous	Equatorial Venezuela	11 1940	Venezuela, equator, expedition
Anonymous	The Christmas Star	12 1940	star, Christmas, Bible, Jesus, comet, Halley, nova
Anonymous	Our Calendar from Year to Year	12 1940	Julian, calendar, Gregorian, month, year, week, equation
Anonymous	Clock Of The Ages	12 1940	GO, clock, Cosmochron
-	Index to Volume IV, 1940	12 1940	GO, index
Anonymous	A Preview of the 1941 Sky	1 1941	sky, observe, telescope, planet, eclipse
Anonymous	Great Comets of the Past	1 1941	comet, Halley, Delavan, Tycho Brahe, 1811, 1843, Donati, 1861, 1882
Anderson, J. A.; Porter, Russell W.	The Observatory on Palomar Mountain	2 1941	telescope, Palomar, reflector, design, mounting
Anonymous	The Triple Conjunction of Jupiter and Saturn	2 1941	Jupiter, Saturn, conjunction, sky, observe
Anonymous	Giant Worlds of the Solar System	2 1941	Jupiter, Saturn, size, diameter, Cassini, ring, satellite
Anonymous	The Stars of our Sky	3 1941	binary, cluster, Perseus, nebula, sky, observe
Anonymous	Springtime through the Ages	3 1941	precession, conical, movement, earth, rotation, Pole Star, Orion, sky, observe
Merrill, Paul W.	Stars in Action	4 1941	variable, Lyrae, Cepheid, nova, supernova, Tycho

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Anonymous	Long and Short Nights (Planetarium Demonstration for April)	4 1941	GO, planetarium Jupiter, satellite, Galileo, Barnard, Io, Ganymede
Nicholson, Seth B.	The Satellites of Jupiter	5 1941	
Anonymous	The Rotation of Our Galaxy	5 1941	GO, exhibit, rotation, galaxy
Bissell, Malcolm H.	The Next Two Billion Years: The Past as a Preface (Part 1 of 2)	6 1941	history, earth, geology, ice age, climate, coral, fossil Moon, Aristarchus, Greece,
Anonymous	Ancient Measures of the Distance to the Moon	6 1941	eclipse, distance Dipper, time, observation, sky, Polaris, equation
Bower, E. C.	Telling Time from the Stars	6 1941	glacial, period, climate, man, Tertiary, cycle, geologic, deforestation, civilization, destruction
Bissell, Malcolm H.	The Next Two Billion Years (Part 2 of 2)	7 1941	
Anonymous	Queen of the Evening Sky	7 1941	Venus, sky, observe, telescope parallax, distance, Alpha Centauri, Cepheid, measure GO, planetarium, United States, Buhl, Hayden, Fels, Adler
Anonymous	Finding Distances of Stars	8 1941	Mars, Earth, life, animal, plant, telescope, extra solar, planet, chemistry, idealism Mars, Lowell, Canal, photograph meteor, light, streak, trail, observe, sky, Leonids, Perseid
Anonymous	The Planetaria In The United States	8 1941	
Anonymous	Life in the Universe	9 1941	
Anonymous	Lowell's Maps of Mars	9 1941	
Olivier, Charles P.	Long Enduring Meteor Trains	10 1941	
Slipher, E. C.	Mars	10 1941	Mars, opposition, sky, observe, season, telescope, hemisphere
Anonymous	Additional Off Year Sunspots	11 1941	sunspot, photograph Moon, age, equation, calculation star map, sphere, declination, celestial, pole, Polaris, ascension, constellation, zenith light, absorption, dust, interstellar, Kapteyn, Barnard, Russell, gas, Hubble, Milky Way
Anonymous	A Trick With the Moon	11 1941	
Anonymous	A Map of the Heavens	11 1941	
Seares, Frederick H.	Absorption by the Dust of Space	12 1941	
Dinsmore, Alter	Our Galaxy and Beyond	12 1941	GO, planetarium, galaxy
-	Index to Volume V, 1941	12 1941	GO, index Galileo, death, pendulum, telescope, moon, Jupiter, satellite, Saturn, Venus, Sun, spot, Church sky, observe, eclipse, telescope, planet clock, time, Sun, Regulus, solar, day, sidereal, daylight savings
Cleminshaw, C. H.	Galileo	1 1942	
Alter, Dinsmore	Seeing 1942 in the Sky	1 1942	
Cleminshaw, C. H.	The Time of Day	2 1942	

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Cleminshaw, C. H.	The 200-Inch Telescope	2 1942	Palomar, telescope, build, photo
Alter, Dinsmore	Helping the Astronomy Student (Part 1 of 2)	2 1942	teach, student, well, improve, class
Kuiper, Gerald P.	The Nearest Stars	3 1942	near, star, Wolf 359, Canopus, Vega, parsec, sampling, parallax, mainsequence, Hertzsprung-Russell
Alter, Dinsmore	Some Common Astronomical Terms	3 1942	definition, light year, parsec, parallax, proper motion, blink survey, magnitude, spectral type
Alter, Dinsmore	Helping the Astronomy Student (Part 2 of 2)	3 1942	teacher, model, coordinate, altazimuth, build, aberration, light
Christie, William H.	The Great Siberian Meteorite of 1908	4 1942	Siberian, meteorite, investigation, Kulik, "explosion, impact, expedition, witness"
Alter, Dinsmore	Stamps Commemorate Observatory Dedication	5 1942	Stamp, Mexico, first, Observatory, National, commemorate
Cleminshaw, C. H.	The Discoveries of Uranus and Neptune	5 1942	Uranus, Neptune, Herschel, Newton, Adams, discovery, Leverrier, Galle
-	Revised Wartime Schedule of the Griffith Observatory	5 1942	GO, war, schedule
Alter, Dinsmore	The Mohammedan Era in Astronomy	6 1942	Russia, Tamerlane, palace, discovery, Almagest, Ptolemy, Al Mamun, Albategnuis, Persia, Baghdad, Arabic, almanac, zenith
Cleminshaw, C. H.	The Polar Sky	6 1942	GO, Planetarium, show
Cleminshaw, C. H.	The Galaxies of Space	7 1942	GO, Planetarium, show
Cleminshaw, C. H.	The North Star and The Big Dipper	7 1942	sky, observe, telescope, North Star, Polaris, Dipper, locate
Cleminshaw, C. H.	Eclipses of the Sun and Moon	8 1942	GO, Planetarium, show
Cleminshaw, C. H.	Some Interesting Telescopic Objects	8 1942	telescope, observe, sky, interesting, Jupiter, Saturn, Polaris, Cygnus, Lyra
Cleminshaw, C. H.	The Sky from Pole to Pole	9 1942	Sky, chart, constellation, month
Anonymous	Isaac Newton (1642-1727)	10 1942	Newton, life, law, motion, gravity, light, reflecting, telescope
Anonymous	The Northern and Southern Lights	10 1942	borealis, aurora, polar, Northern, Southern, observe, sky, glow
Anonymous	The Changing Moon	11 1942	GO, Planetarium, show
Anonymous	Star Trails of Orion	11 1942	Orion, telescope, photo
Bunton, George W.	Lightning	12 1942	Lightning, thunder, storm, strike, electricity, conduct

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Anonymous	Mariners' Mercator Maps	12 1942	Mercator, map, navigation,
-	Index to Volume VI, 1942	12 1942	sphere, distance
	Six Years of the Griffith		GO, index
Anonymous	Observer	1 1943	GO
	Observer		photograph, Halley,
-	Photos	1 1943	Andromeda, Cygnus, Mars,
	Advances in Astronomical		Saturn, Jupiter, Moon, Orion,
Herbig, George H.	Photography	2 1943	Hercules
	Photography		telescope, photography, color,
Cleminshaw, C. H.	Two Eclipses in February	2 1943	plate, red, light
	Two Eclipses in February		sun, solar, eclipse, total, lunar,
Cleminshaw, C. H.	The New Comet	2 1943	moon
	The New Comet		Whipple, comet, discovery,
	Celestial Navigation		Harvard
Cleminshaw, C. H.	(Planetarium Subject for March)	3 1943	celestial, navigation,
Cleminshaw, C. H.	The World Calendar	4 1943	declination, time, zone,
	The World Calendar		equinox, zenith, azimuth,
Cleminshaw, C. H.	Astrology	4 1943	altitude
	Astrology		world, calendar, new, benefit
Cleminshaw, C. H.	Copernicus Moves the Earth	5 1943	Astrology, law, superstition,
	Copernicus Moves the Earth		sign, planet, horoscope, fraud
-	Index of Principal Articles in	5 1943	Copernicus, Ptolemaic, sun,
	Griffith Observer		earth, center, revolution
	Griffith Observer		GO, Index
Cleminshaw, C. H.	Prominences and Sunspots	6 1943	sun, sunspot, flare,
	Prominences and Sunspots		prominences, observe,
Cleminshaw, C. H.	Navigational Stars	6 1943	atmosphere, Schwabe
	Navigational Stars		navigation, sidereal, equinox,
Alter, Dinsmore	The South Seas Sky	7 1943	chart
	The South Seas Sky		GO, war, service, observe, sky,
Cleminshaw, C. H.	Little Planets by the Thousands	7 1943	equator, ocean, life
	Little Planets by the Thousands		asteroid, Wittenberg, discovery,
Pettit, Edison	Watches and Chronometers	8 1943	Piazzi, Olbers, name, Eros,
	Watches and Chronometers		Jones
Cleminshaw, C. H.	Trails of Circumpolar Stars	8 1943	time, chronometer, watch,
	Trails of Circumpolar Stars		movement, clock, gear, jewel,
Anonymous	The Galaxies of Space	8 1943	wound
	The Galaxies of Space		star, circumpolar, North
Clements, Thomas	Earthquakes?	9 1943	Star, Polaris, photography,
	Earthquakes?		exposure
Cleminshaw, C. H.	Other Solar Systems	9 1943	GO, Planetarium
	Other Solar Systems		earthquake, fault, California,
Cleminshaw, C. H.	A Typical Oil Field	9 1943	predict, fore shock
	A Typical Oil Field		planet, sun, extra solar, Sirius,
Herbig, George H.	Peculiar Stars	10 1943	binary, Cygni, companion,
	Peculiar Stars		Ophiuchi, Cincinnati
	Peculiar Stars		GO, exhibit, oil, well
	Peculiar Stars		Capella, Aurigae, bright, dark,
	Peculiar Stars		companion, Lyrae, Kuiper, egg,
	Peculiar Stars		contact, Tauri, Joy

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Baumgardt, Mars F.	Saturn, The Ringed Giant	11 1943	Saturn, observe, sky, temperature, Galileo, ring, period
Cleminshaw, C. H.	How to Find the Planets	11 1943	diagram, sky, observe, opposition, brightness, Mars, Venus
Locher, Felix	Great Circles On Mercator Maps	12 1943	short, distance, two, points, curved, equation, Berlin, Tokyo, Fairbanks
-	Index to Volume VII, 1943	12 1943	GO, index
Williams, Millard	Selenographer: Student of the Moon	1 1944	selenographer, Moon, sun, surface, illumination, surface, feature
Cleminshaw, C. H.	Jupiter's Four Bright Satellites	1 1944	Jupiter, satellite, Galileo, eclipse, transit, observe, sky, light, speed
Bunton, George W.	The Earth a Great Magnet	2 1944	magnet, earth, pole, magnetic field, compass, Halley, sunspot, cycle
Cleminshaw, C. H.	Leap Year	2 1944	Leap year, Julian, calendar, Gregorian, Church, Easter
Cleminshaw, C. H.	Saturn's Satellites	3 1944	Saturn, satellite, Huygens, Titan, atmosphere, methane, Iapetus, observe
Cleminshaw, C. H.	Time Around the World	3 1944	time, zone, meridian, Greenwich Civil time, war time, daylight savings
Cleminshaw, C. H.	The Sun's Daily Path Across the Sky	3 1944	sun, position, altitude, azimuth, calculate
Newton, Archie M.	The History of the Telescope	4 1944	Lippershey, telescope, convex, lens, magnify, discovery, Galileo, Kepler, Scheiner, Gregory, reflector, Cassegrain, observatory, refractor, Lick, Hooker
Cleminshaw, C. H.	Facts About Some Notable Stars	5 1944	star. interferometer, Michelson, angular diameter, linear diameter, Alpha Centauri, Canopus, distance, brightness, luminosity, Vega, Betelgeuse, etc.
Cleminshaw, C. H.	The Motions of the Moon	6 1944	Moon, orbit, earth, eccentricity, diameter, parallax, altitude, face, observe, sky, phase
Cleminshaw, C. H.	The Milky Way	7 1944	observe, sky, Milky Way, galaxy, Deneb, photograph, composite, nebulae
Bunton, George W.	The Foucault Pendulum	8 1944	GO, Foucault, pendulum, exhibit
Anonymous	An Astronomical Quiz	8 1944	GO, quiz, knowledge, Astronomy

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Cleminshaw, C. H.	Sun Time	9 1944	time, sidereal, earth, intersection, sun, ascension, sky, ecliptic, equation, mean nebula, galaxy, Andromeda, dust
Cleminshaw, C. H.	Two Kinds of Nebulae	10 1944	earth, rotate, angular, momentum, deviation, motion, centrifugal, axis
Bunton, George W.	The Earth Rotates Stars of the Lowest and Highest	10 1944	luminosity, BD+4, close, S Doradus, double, observe
Cleminshaw, C. H.	Luminosity	10 1944	Mercator, map, telecurve, distance, short, circle, great comet, reflect, sunlight, spectroscope, graph, makeup, element, Doppler velocity, galaxy, radial, tilt, spiral, Andromeda
Cleminshaw, C. H.	Modernized Mercator Maps for the Air Age	11 1944	speed, light, Galileo, velocity, Roemer, Jupiter, revolution, satellite, Bradley, Fizeau, Cornu, Foucault, Michelson, Mount Wilson
Herbig, George H.	Light from Comets	11 1944	GO, index
Herbig, George H.	Direction of Rotation of Galaxies	12 1944	spectra, white, light, formula, frequency
Cleminshaw, C. H.	Measuring the Speed of Light	12 1944	Sun, sky, observe, GO, photograph
-	Index to Volume VIII, 1944	12 1944	Venus, Sun, conjunction, Mercury, Kepler, Halley's, comet, Jupiter, Saturn
Bunton, George W.	The Origin of Spectra	1 1945	sky, observe, chart, constellation, myth
Anonymous	Daily and Seasonal Movements of the Sun	1 1945	cloud, vapor, water, temperature, Cirrus, type sundial, create, amateur, design
Anonymous	The Planets	2 1945	GO, anniversary, Griffith storm, type, thunder, magnetic, atmosphere
Anonymous	Maps of the Sky	3 1945	rotation, observe, sky, diameter, velocity, spectral, line
Bunton, George W.	Clouds	4 1945	Sun, Moon, eclipse, observe, sky, total
Anonymous	A Portable Sundial	4 1945	star, nova, Crab, Persei, light, curve Aquilae, telescope, Fabricius, Bayer, variable, Mira, Goodricke, Cephei, light, temperature
Anonymous	Tenth Anniversary of the Griffith Observatory and Planetarium	5 1945	observe, sky, identify, Dipper, map, constellation
Bunton, George W.	Storms	5 1945	construction, Palomar, mirror, Hale
Herbig, George H.	The Rotation of the Stars	6 1945	observe, planet, sky, telescope
Anonymous	The Solar Eclipse of July 9	6 1945	
Anonymous	Exploding Stars	7 1945	
Anonymous	Variable Stars	8 1945	
Anonymous	How to Recognize the Stars	9 1945	
Anonymous	The Palomar Telescope	10 1945	
Anonymous	The Moving Planets	10 1945	

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Nassau, J. J.	The Objective Prism of the Warner and Swasey Observatory	11 1945	glass, mirror, prism, construction, Warner and Swasey
Anonymous	The Founding of the Cincinnati Observatory	11 1945	Cincinnati, Mitchel, found, glass, mirror, Russia
Anonymous	Tycho and Kepler	12 1945	Brahe, Kepler, telescope, orbit, planet, law
Poincare, H.	The Value of Astronomy	12 1945	government, funding, curiosity, value
Alter, Dinsmore	Atoms, Bombs and the Moon	1 1946	Moon, Mars, life, atomic, bomb, development, Curie, Schmidt, Millikan, Bohr, neutron, Chadwick, space, travel, comic
Williams, Millard	The Existence of Air and Water on the Moon in Ancient Times	2 1946	Moon, atmosphere, water, air, feature, past, sea
Hynd, Alan	Theatre of the Skies	2 1946	Hayden Planetarium, war, classroom, navigation, celestial
Pruett, J. Hugh	The Twilight Meteor of November 29, 1945	3 1946	meteor, sky, observe, California, fireball, aerolite
Newton, Archie M.	The Earliest (?) Astronomical Instrument	4 1946	Egypt, Nile, Merkheth, archaeologist, Berlin, temple, Pharaoh
Richards, Carl Price	The 1945 Total Eclipse of the Sun	4 1946	sun, eclipse, total, observe, photograph
Bunton, George W.	The Past, Present, and Future of the Los Angeles Astronomical Society	5 1946	Porter, amateur, astronomy, society, Los Angeles, telescope, make
Anonymous	The 100th Anniversary of the Discovery of Neptune	5 1946	Neptune, discovery, Uranus, Herschel, Adams, Leverrier
Anonymous	Measuring Astronomical Distances - In the Solar System (Part 1 of 2)	6 1946	Egypt, Eratosthenes, zenith, telescope, displacement, angle, Moon, Venus, equation, light, aberration
Anonymous	Measuring Astronomical Distances - Beyond the Solar System (Part 2 of 2)	7 1946	Greece, Aristarchus, parallax, Alpha Centauri, parsec, magnitude, Russell
Anonymous	The Sun's Daily Path Across the Sky	7 1946	sun, position, altitude, azimuth, calculate
Williams, Millard	One Thousand Observations of the Sun	8 1946	sunspot, sun, flare, solar, magnet, storm, cycle
Anonymous	The Surface of the Sun	8 1946	Sun, surface, GO, drawing, observe, catalog
Alter, Dinsmore	To the Moon?	9 1946	Moon, travel, radar, atomic, power, shape, fuel
Cleminshaw, C. H.	Venus in the Evening Sky Program for Planetarium Show, September, 1946: How to	9 1946	Venus, sky, observe, position, equation, inferior
Anonymous	Recognize the Stars	9 1946	GO, planetarium show
Alter, Dinsmore	The Milky Way Galaxy	10 1946	Herschel, milky way, visible, observe, sky, galaxy, position, Sun

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Cleminshaw, C. H.	A Possible Meteor Shower Program for the Planetarium Show, October 1946: The Milky Way	10 1946	Meteor, shower, observe, sky, comet, Giacobini-Zinner, Leonid
Anonymous	The Meteor Shower of October 9, 1946	10 1946	GO, planetarium meteor, shower, observe, GO, sky, photo
Cleminshaw, C. H.	Using the Moon to Measure Stars	11 1946	Moon, Wilson, interferometer, occultation
Cleminshaw, C. H.	Living on the Moon Program for Planetary Show, November 1946: The Moon	11 1946	Moon, voyage, commercial, rules, life, living, corona, meteor
Anonymous	The Pleiades	11 1946	GO, planetarium Pleiades, constellation, Taurus, sisters, magnitude
Cleminshaw, C. H.	Historical Meteor Showers Compared: Recent Display	12 1946	meteor, shower, slave, past, count, estimate, number
Pruett, J. Hugh	Ranks Well Program of Planetarium Show for December, 1946: Our Star	12 1946	
Anonymous	The Sun	12 1946	GO, planetarium
-	Index to Volume X, 1946	12 1946	GO, index
Alter, Dinsmore	The Fireball of May 9, 1947	8 1947	meteor, fireball, Los Angeles, impact
Cleminshaw, C. H.	The Great Siberian Meteorite of 12 February 1947	8 1947	meteorite, Siberia, Soviet Union
Anonymous	Boyhood Memories of George Ellery Hale	8 1947	Hale, cruise, memories
Holmes, Burton	The 200 -Inch - An Experience in Cooperation	9 1947	Hale, Wilson, telescope, Palomar, McDowell
Mason, Max		9 1947	
Cleminshaw, C. H.			
Bunton, George W.	The Foucault Pendulum	10 1947	GO, Foucault, pendulum, exhibit
Cleminshaw, C. H.	The Planets	10 1947	distance, planet, Sun, magnitude, density
Cleminshaw, C. H.	The Nebulae of Our Galaxy	11 1947	nebula, galaxy, cloud, spectra, planetary
Cleminshaw, C. H.	Sunspot Observations Before the Invention of the Telescope	11 1947	sun, sunspot, Wolf, telescope, Galileo
Alter, Dinsmore	Analyses of the Records of Sun Spottedness	11 1947	Sun, sunspot, interval, Schwabe
Alter, Dinsmore	The Planetarium as a University Classroom	11 1947	Planetarium, college, atomic bomb, Zeiss
Alter, Dinsmore	John Flamsteed and His Atlas Coelestis	12 1947	Flamsteed, atlas, Coelestis, Brahe, England, Newton, position
Alter, Dinsmore	The Schmidt Telescope or Camera	1 1948	telescope, mirror, Schmidt, reflector, axis,
Alter, Dinsmore			diagram
Cleminshaw, C. H.	Planetarium Show for January, 1948: A Preview of the 1948 Sky	1 1948	Moon, phase, eclipse, Mercury, Venus, Mars, Jupiter, Saturn, observe, sky, planetarium

<u>author</u>	<u>title</u>	<u>mo year</u>	<u>key words</u>
Cleminshaw, C. H. Rule, Bruce	Stellar Data	1 1948	galaxy, star, data, distance, bright, size, velocity, motion
Hendrix, Don Alter, Dinsmore	The 48-Inch Schmidt Camera of the Mount Palomar Observatory	2 1948	Palomar, telescope, Schmidt, mirror, design, diagram satellite, Jupiter, Saturn, Galileo, Huygens, Uranus, Neptune, Mars, moon
Cleminshaw, C. H.	The Satellites of the Solar System	3 1948	
Alter, Dinsmore Bunton, George W.	From Other Observation Platforms: "O wad some power the giftie gie us To see oursels as others see us!"	3 1948	sky, observe, telescope, Pluto, Jupiter, Mercury Tesla, coil, GO, diagram, magnetic, field, exhibit GO, Newton
Alter, Dinsmore	The Tesla Coil	4 1948	
Alter, Dinsmore	Mr. Newton Retires	4 1948	
Alter, Dinsmore	Discovery of the Fifth Uranian Satellite	4 1948	satellite, Uranus, Kuiper Moon, tide, Earth, gravity, pull, low, high, average Sun, Moon, eclipse, total, observe, sky, United States
Alter, Dinsmore	The Changing Tides	5 1948	
Cleminshaw, C. H.	Total Solar Eclipses in the United States from 1900 to 2050	5 1948	asteroid, Wirtanen, Lick, Hidalgo
Alter, Dinsmore	A Unique Asteroid	5 1948	
Cleminshaw, C. H.	The Names of the Forty Brightest Stars	6 1948	bright, star, Bayer, Flamsteed, Sirius, Vega, Canopus Newton, England, library, life, Trinity
Alter, Dinsmore	Sidelights on Isaac Newton	6 1948	
Alter, Dinsmore Cleminshaw, C. H.	The Dedication of the Hale Telescope	7 1948	Hale, dedication, telescope, Wilson, Palomar Adams, telescope, knowledge, quest, search, mankind, Palomar
Fosdick, Raymond B.	The Challenge of Knowledge A Trip to the Moon: A Spectacle to be Produced on the Dome of the Planetarium at the Griffith Observatory	7 1948	GO, Moon, planetarium GO, Moon, Planetarium, projector, design
Anonymous	A Trip to the Moon: And the Apparatus Which Produces It	8 1948	
Alter, Dinsmore Mason, Max	Man and Matter	8 1948	Hale, future, Universe Palomar, telescope, 200, Hubble, Adams, observatory star, bright, luminosity, constellation
Dubridge, Lee A.	The Palomar Observatory	8 1948	
Cleminshaw, C. H.	The 150 Brightest Stars	9 1948	
Bush, Vannevar	Two Observatories Operate as One	9 1948	Palomar, Wilson, telescope, Hale, Bowen Moon, Earth, evolution, how, Darwin, distance atmosphere, Earth, upper, layer, absorption, radio, temperature
Alter, Dinsmore	The Evolution of the Moon	10 1948	
Alter, Dinsmore	The Upper Atmosphere of the Earth	10 1948	
Bowen, Ira S.	The Telescope at Work	10 1948	Hale, test, observatory, telescope, spectrum, work Algol, binary, double, star, eclipse, light curve, equation
Cleminshaw, C. H.	Eclipsing Double Stars	11 1948	

<u>author</u>	<u>title</u>	<u>mo year</u>	<u>key words</u>
Alter, Dinsmore	The Future of Our Race	11 1948	future, mankind, Langley, flight, space
Alter, Dinsmore	The Christmas Star	12 1948	Christmas, star, Jesus, birth, comet, Bethlehem, Halley
Alter, Dinsmore	The Third Planet	12 1948	Earth, photo, atmosphere, Navy, flight
-	Index of Articles in the Griffith Observer (Feb. 1937 - Dec. 1948)	12 1948	GO, index
Nicholson, Seth B.	The Zurich Meeting of the International Astronomical	1 1949	Astronomical Union, Zurich, commission, Switzerland
Cleminshaw, C. H.	The Moon and Planets in 1949	1 1949	Venus, Mercury, Mars, Jupiter, Saturn, Uranus, Neptune, Moon, observe, sky, telescope
Anonymous	The Adjustment of the Hale 200-inch Telescope at Palomar	1 1949	Palomar, telescope, adjust, mirror
Cleminshaw, C. H.	Weighing the Sun	2 1949	Newton, gravity, Sun, Earth, weight, mass, equation, density
Alter, Dinsmore	Why Force Toward the Sun Takes a Planet Around the Sun	2 1949	Sun, force, mass, satellite, orbit, focus
Alter, Dinsmore	The Creed of Science	2 1949	creed, believe, science, metaphysics
Alter, Dinsmore	The Importance and Nature of the Asteroids	3 1949	asteroid, Jupiter, Eros, Earth
Brouwer, Dirk	The Work of Commission 20 of the International Astronomical Union	3 1949	minor planet, commission, union, comet, position, orbit, asteroid
Herget, Paul	Cooperation on Asteroid Problems	3 1949	danger, asteroid, cooperation, find, observe, opposition
Cunningham, Leland E.	Determination of Asteroid Orbits	3 1949	asteroid, orbit, Ceres, Piazzi, perturb, definitive, calculator, binary
Cleminshaw, C. H.	A Start on the Stars	4 1949	celestial, sphere, constellation, sky, observe, telescope, horizon, meridian
Alter, Dinsmore	The Performance of the Hale Telescope	4 1949	Hale, telescope, work, adjustment, mirror
Alter, Dinsmore	Russell W. Porter	5 1949	Porter, Vermont, Wilson, Hale, death
Alter, Dinsmore	Clyde Fisher	5 1949	Fisher, death, teach, GO
Baumgardt, Mars F.	The Los Angeles Astronomical Society	6 1949	Los Angeles, society, amateur, telescope, reflector
Freeman, H. L.	The Los Angeles Astronomical Society: Present Activities and Future Plans	6 1949	Los Angeles, society, activities, amateur, future, observe, telescope, cultural
Alter, Dinsmore	Space Travel Projectors: A novel type of planetarium show produced by a new instrument	7 1949	GO, planetarium, instrument, projector, Zeiss
Cave, Thomas R.	A Recent Observation of Saturn	7 1949	Saturn, observation, drawing, ring
Alter, Dinsmore	A Close Red Dwarf Double Star	7 1949	red, dwarf, binary, motion, proper

<u>author</u>	<u>title</u>	<u>mo year</u>	<u>key words</u>
Alter, Dinsmore	Observational Programs for Amateur Astronomers	8 1949	amateur, telescope, observe, program, build, zodiac, meteor
Cleminshaw, C. H.	The Forty Nearest Stars	8 1949	parallax, near, star, visual, magnitude, real, motion, spectra, velocity
Alter, Dinsmore	The Big Schmidt and the National Geographic Society - Palomar Observatory Sky Survey	9 1949	Palomar, Geographic., sky, survey, Lick, Schmidt, Hale, red, nebula
Bunton, George			
W. Freeman, Harry L.	The First Annual Conference of Western Amateur Astronomers	10 1949	Western, amateur, conference, telescope, build, observe, sky retrograde, planet, orbit, Earth, Mars, equation, Saturn, Neptune
Cleminshaw, C. H.	The Retrograde Motions of the Planets	10 1949	
Alter, Dinsmore	Origin of the Solar System: Some facts which must be explained by any satisfactory hypothesis	11 1949	Earth, formation, universe, solar system, Sun, temperature, planet, orbit Moon, observe, sky, path, position, solstice, ecliptic, phase
Cleminshaw, C. H.	The Moon's Path in the Sky	12 1949	
Alter, Dinsmore	The Expanding Universe (Part 1 of 2)	1 1950	Universe, Hubble, distance, expand, light, electromagnetic, spectra, Doppler
Anonymous	200-Inch Telescope Again in Operation	1 1950	telescope, Hale, mirror, Ross, corrector
Alter, Dinsmore	The Expanding Universe (Part 2 of 2)	2 1950	Universe, Doppler, expand, Wilson, Hubble, luminosity, Hale
Alter, Dinsmore	Griffith Observatory Traveling Telescope	2 1950	telescope, GO, travel
Cleminshaw, C. H.	Stories Of Meteorites	3 1950	Siberian, meteorite, observe, Willamette, Benld, Paragould, Kansas, Oregon, shower, Soviet Union
Alter, Dinsmore	The Energy of the Sun (Part 1 of 2)	4 1950	Sun, energy, contraction, heat, caloric, Langley, Helmholtz
Alter, Dinsmore	The Sun as a "Hydrogen Bomb" (Part 2 of 2)	5 1950	Hydrogen, bomb, Sun, mass, Einstein, atom, fission, deuterium, uranium
Alter, Dinsmore	The Flying Saucers	5 1950	alien, pseudoscience, UFO
Cleminshaw, C. H.	Supernovae	6 1950	supernova, Venus, Hipparchus, Tycho, magnitude, Humason, nebula
Alter, Dinsmore	The Particles of Physics	7 1950	atom, particle, Becquerel, cloud, chamber, Wilson, electron, neutron, proton, neutrino
Aitken, Robert G.	The Origin of the Astronomical Society of the Pacific	8 1950	ASP, society, Pacific, Holden, Lick, Leuschner, Newcomb
Wallace, H. A.	Second Convention of Western Amateur Astronomers	8 1950	convention, Western, amateur, Palomar

<u>author</u>	<u>title</u>	<u>mo year</u>	<u>key words</u>
Cleminshaw, C. H.	Sundials	9 1950	sundial, equation, geometry, time
Cleminshaw, C. H.	The Unique Asteroid, Icarus A Possible Large Meteoritic	9 1950	Icarus, asteroid, Baade, orbit, magnitude, discovery
Alter, Dinsmore	Crater in Canada The Second Annual Convention of Western Amateur	10 1950	Canada, crater, meteorite, iron convention, Western, amateur, Astronomical Society of the Pacific, committee
Vann, Marvin J.	Astronomers	10 1950	amateur, photometry, Hipparchus, equation, magnitude, brightness, circuit, build
Baum, William A.	Amateur Photometry New Photographs of Galaxies (Made by Mount Wilson and Palomar Observatories)	11 1950	photo, Wilson, Palomar, galaxy
Anonymous		12 1950	Mercury, sky, observe, position, Venus, Mars, conjunction, Jupiter, Saturn
Cleminshaw, C. H.	Planet Positions 1951-1960 Some New Photographs of Galactic Objects (Made with the 200" Hale Telescope of the Mount Wilson and Palomar Observatories)	1 1951	Hale Telescope, observe, photo, reflection, nebula, spectra, Trifid, Lagoon, Omega, Lyra
Alter, Dinsmore		2 1951	creed, science, daily, fact, discovery, invention, metaphysic
Alter, Dinsmore	Science and Our Daily Lives The Problem of Mars (A Program for the Amateur)	3 1951	Mars, amateur, observe, sky, telescope, canal, Ross
Cave, Thomas R. Bunton, George W.	Sundogs and Halos	4 1951	Halo, Sundogs, sun, Moon, crystal, light
Cleminshaw, C. H.	The Apparent Sizes and Magnitudes of the Planets	5 1951	planet, size, magnitude, Venus, Mercury, Moon, transit, Jupiter, Saturn, distance
Roques, Paul E.	The Penumbra Lunar Eclipse of 1951, March 23	5 1951	Moon, eclipse, penumbral, umbra, observe
Alter, Dinsmore	Future Scientific Training and Research	6 1951	inventor, science, future, Athenian, student
Alter, Dinsmore	Boys Astronomy Club at North Hollywood Playground	6 1951	club, North Hollywood, telescope, observe, sky
Cleminshaw, C. H.	The Founding of Three Great Observatories by George Ellery Hale (Part 1 of 2)	7 1951	Hale, observatory, telescope, found, Kenwood, Yerkes, Wilson
Cleminshaw, C. H.	The Founding of Three Great Observatories by George Ellery Hale (Part 2 of 2)	8 1951	Hale Telescope, observatory, Carnegie, reflect, Hooker
Alter, Dinsmore	Numerology and Science The Stockton Astronomical Society	9 1951	Bode, numerology, Germany, pseudoscience, superstition
Custer, C. P.		9 1951	Stockton, society, club, telescope, observe, sky
News Release from Caltech	Results from the 200" Hale Telescope	9 1951	Humason, red shift, Virgo, Doppler, distance, Cepheid, cosmology

<u>author</u>	<u>title</u>	<u>mo year</u>	<u>key words</u>
Cave, Thomas R.	Third Annual Convention - Western Amateur Astronomers Conquest of Space Exhibition at Sacramento	10 1951	Western amateur convention, telescope, observe, sky, San Diego
Killick, Victor W.	The Timing of the Moon's Phases	11 1951	Sacramento, model, exhibition, Crocker, scale, solar system
Wylie, Paul E.	The 120-Inch Telescope	11 1951	Moon, phase, year, time, orbit
Alter, Dinsmore	The Story of Pluto	12 1951	Lick, construction, telescope, Palomar, Cassegrainian Pluto, discovery, Watson, Herschel, Uranus, Bessel, Bode, Lowell, Leverrier, Tombaugh
Alter, Dinsmore	Some Notable Asteroids	1 1952	asteroid, Ceres, Pallas, Juno, Vesta, discovery, Eros, Apollo
Cleminshaw, C. H.	Robert Grant Aitken 1864- 1951	2 1952	Aitken, Lick, death, double, binary, star, survey
Merrill, Paul W.	The Millikan Oil Drop Experiment	3 1952	Grease, element, proton, electron, oil, drop, experiment, Millikan, charge
Abell, George O.	The Upper Atmosphere of Earth	3 1952	Earth, atmosphere, ionosphere, chemosphere, radiation, mesosphere, exosphere, density
Alter, Dinsmore	The Satellites of Jupiter	4 1952	Jupiter, Copernicus, Galileo, Italy, zodiac, discovery, revolution, orbit, satellite
Nicholson, Seth B.	Satellites of the Earth	5 1952	satellite, Earth, equation, artificial, velocity, period
Cleminshaw, C. H.	The Last Adventures of a Starbeam	6 1952	light, telescope, mirror, reflector, refractor, spectroscopy, Humason
Merrill, Paul W.	Two Populations of Stars	6 1952	light, star, galaxy, elliptical, Milky Way, spiral, nebula, cluster,
Abell, George O.	A Century of Change	7 1952	Hertzsprung-Russell, Herschel, observation, modern, compare, light, future, sun
Alter, Dinsmore	Huge Model of Copernicus	8 1952	GO, Copernicus, exhibit
Cleminshaw, C. H.	Stories of the Constellations	9 1952	constellation, myth, stories
Alter, Dinsmore	Advantages of a Lunar Observatory	10 1952	Moon, observatory, satellite, atmosphere, light
Alter, Dinsmore	Marin Amateur Astronomers	10 1952	amateur, Marin, group, observe, sky, telescope
Osborn, Irene D.	Magnitudes of the Stars	10 1952	magnitude, brightness, difference, ratio, parallax, distance
Cleminshaw, C. H.	What I Don't Know About Flying Saucers	11 1952	UFO, saucers, pseudo, fireball, planet, life, alien
Struve, Otto	The Place of the Amateur in Astronomy	12 1952	amateur, Herschel, Bond, discovery, public, learn
Struve, Otto	The 600-Inch Radio Telescope of the United States Navy	12 1952	telescope, radio, Navy, star, design, reflector

<u>author</u>	<u>title</u>	<u>mo year</u>	<u>key words</u>
Haas, Walter H.	Some Long-Enduring Features in the South Temperate Zone of Jupiter	1 1953	amateur, Jupiter, cloud, feature, Red Spot, observe
Cave, Thomas R.	The Canals of Mars	2 1953	Mars, canal, Schiaparelli, interpretation, Williams, Lowell
Alter, Dinsmore	The Temperature of Jupiter	2 1953	temperature, Jupiter, Bond, Wildt, atmosphere
Bunton, George W.	Stars Over San Francisco	3 1953	Planetarium, San Francisco, Zeiss
Alter, Dinsmore	Eclipses: Planetarium Show for March	3 1953	eclipse, corona, Sun, Moon, occultation, planetarium
Cleminshaw, C. H.	Celestial Speeds	4 1953	equation, Kepler, orbit, comet, Saturn, Mars, velocity
Nicholson, Seth B.	Daily Solar Observations at Mt. Wilson	5 1953	Wilson, Sun, observe, telescope, daily
Abell, George O.	Astronomers Revise Astronomical Distances	6 1953	galaxy, star, Hubble, parallax, telescope, Cepheid, spiral, proper, motion,
Alter, Dinsmore	Artificial Satellite or Space Station	7 1953	rocket, station, satellite, diagram, hazard, fuel
Radio Broadcast	The Neenach, Los Angeles County, Aerolite	7 1953	meteor, Neenach, Antelope Valley, recovery
Alter, Dinsmore	General Conditions at the Moons Surface	8 1953	Moon, surface, temperature, change, atmosphere, albedo
Pettit, Edison	The Lyot Telescope & Monochromator	9 1953	Sun, observe, monochromator, Lyot, telescope, corona, spectrum, photo
Cleminshaw, C. H.	The Six Nearest Stars	9 1953	Centauri, telescope, observe, Barnard, Sirius, motion
Nicholson, Seth B.	Armin O. Leuschner 1868- 1953	10 1953	Leuschner, Lick, Hamilton, orbit life, alien, temperature, molecules, energy, Jupiter, Saturn
Thorson, W. R.	Life on Other Worlds	10 1953	Mercury, transit, conjunction, sky, observe, telescope
Cleminshaw, C. H.	Transits of Mercury	11 1953	photography, composite, prism, color, surface
Zwicky, F.	Composite Photography In Astronomy	12 1953	sky, telescope, observe, Moon, Mercury, Venus, Mars, Jupiter, Saturn
Cleminshaw, C. H.	The Moon and Planets in 1954	1 1954	Moon, photo, identification, crater, coordinate
Alter, Dinsmore	Identification of Lunar Features (Part 1 of 3)	2 1954	Messier 81, M81, galaxy, Milky Way
News Release from Palomar	The Distance of Messier 81	2 1954	
Alter, Dinsmore	The Waxing Moon: Hints to Beginning Telescope User (Part 2 of 3)	3 1954	Moon, observe, sky, telescope, phase, crater, terminator space, size, scale, Moon, Sun, Alpha Centauri, comet, galaxy,
Cleminshaw, C. H.	The Scale of Space	4 1954	cluster
Alter, Dinsmore	The Waning Moon (Part 3 of 3)	5 1954	Moon, phase, crater, full, observe, photo, terminator

<u>author</u>	<u>title</u>	<u>mo</u>	<u>year</u>	<u>key words</u>
Mawhinney, Les	The Oberamtman Observer	5	1954	Moon, Schroter, Germany, Mars, Oberamtman, Venus, Surface, Mars, Fontana, Hooke, Herschel, mass, orbit, feature
Alter, Dinsmore	Mars	6	1954	meteor, shower, rain, cloud, noctilucent
Cleminshaw, C. H.	Meteoritics and Meteorology	6	1954	Pole, North Star, Polaris, precession, celestial, equinox, ascension
Cleminshaw, C. H.	The Wandering of the Pole Tides Today and Through The Ages	7	1954	tide, ocean, Moon, zenith, force, Newton, nodes, apsides
Alter, Dinsmore	Ages	8	1954	Eclipse, Sun, Moon, clouds, observe, telescope, corona, sky
Cleminshaw, C. H.	Chasing an Eclipse	8	1954	Medicine, Fernel, doctor, Olbers, lawyer, Bayer, Rutherford
Mawhinney, Les	Doctors and Lawyers	8	1954	eclipse, Sun, Moon, observe, telescope, photo, total
Kennedy, John R.	Shooting the Eclipse	9	1954	Herschel, Sigma, Kodak, Schulze, photo, camera
Alter, Dinsmore	The Beginnings of Astronomical Photography	9	1954	artist, Goldschmidt, Germany, observe, telescope
Mawhinney, Les	The Astronomical Artist	9	1954	time, Sun, star, equation, vernal, equinox, meridian
Cleminshaw, C. H.	Sidereal Time	10	1954	Grease, Columbus, Aristotle, Earth, size, round, Spain, navigation
Reaves, Gibson	Columbus Thought it Was Small	10	1954	Moon hoax, alien life, pseudoscience, Doppler, Kirchhoff, New York Sun, Locke
Reaves, Gibson	The Great Moon Hoax of 1835	11	1954	Convention, Western, amateur, Oakland, meet
Cave, T. R.	The Sixth Annual Convention "of Western Amateur Astronomers"	12	1954	Sun, Moon, rise, set, colongitude, terminator, latitude
Alter, Dinsmore	Sunrise and Sunset on the Moon	12	1954	GO, index
Alter, Dinsmore	Index of Articles in Griffith Observer (Jan., 1949 - Dec. 1954)	12	1954	orbit, revolve, Jupiter, eclipse, observe, occultation, sky, telescope
-	Jupiter's Four Brightest Satellites	1	1955	Moon, Mercury, Mars, Venus, Jupiter, Saturn, observe, sky, Uranus, Neptune, Pluto, telescope
Cleminshaw, C. H.	The Moon and Planets in 1955	1	1955	Berkeley, meeting, result, discussion
Cleminshaw, C. H.	The Astronomical Meetings at Berkeley	2	1955	telescope, star, observe, build, astronomy decline, comet, Halley
Alter, Dinsmore	Berkeley	2	1955	amateur, study, imagination, curiosity, velocity
Wheeler, Burritt	How I Wonder What You Are	2	1955	
Mawhinney, Les	A Reporter Looks At Astronomy	2	1955	

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Alter, Dinsmore	Copernicus Through the Month	3 1955	Copernicus, crater, moon, observe, telescope, intelligence, life
Anonymous	The Great Andromeda Galaxy	3 1955	Andromeda galaxy, Milky Way eclipse, India, observe, Janssen, total, observatory, travel
Mawhinney, Les	Eclipse Journeys	3 1955	
Cleminshaw, C. H.	Zeta Aurigae	4 1955	spectrum, observe, telescope, Zeta, Aurigae, Doppler, velocity
Barker, H. G.	Herstmonceux Castle	5 1955	Castle, Henry VI, England, Herstmonceux, Greenwich Moon, Wright, photo, Mare
Alter, Dinsmore	Above the Limb of the Moon	5 1955	Crisium, Grimaldi
Alter, Dinsmore	Tycho Through the Month	6 1955	Tycho, crater, Moon, observe, telescope
Roques, Paul E.	A Solar Eclipse Viewed from the Moon	6 1955	GO, Moon, eclipse, projector, Planetarium
Alter, Dinsmore	Local Boys Make Good: Twenty Years of Griffith Observatory	6 1955	
Mawhinney, Les	Guides	6 1955	GO
Abell, George O.	The Matter Between the Stars	7 1955	interstellar, matter, dark, nebula, absorption, reddening, reflection, gas, Hydrogen, Emission
Cleminshaw, C. H.	Saturn	8 1955	Saturn, ring, satellite, Herschel, Galileo, Laplace, spectrum, temperature
Cleminshaw, C. H.	Scotland Yard Invades Medieval Astronomy	9 1955	England, Cambridge, Scotland Yard, Chaucer, Astrolabe
Greever, Garland News Release from Caltech	Photographic Atlas of the Sky	9 1955	Atlas, sky, space, survey, Palomar
Custer, Clarence P.	Seventh Annual Convention of Western Amateur Astronomers	10 1955	Western, amateur, convention, report, telescope
Cleminshaw, C. H.	A Constellation Quiz	11 1955	constellation, quiz, zodiac, Andromeda, galaxy, Ursa
Hollister, Warren	Giordano Bruno and the Infinite Universe	12 1955	Bruno, infinite, universe, Copernicus, type
Alter, Dinsmore	The Twin Refracting Telescope	12 1955	telescope, refractor, Griffith, GO, Zeiss
Roques, Paul E.	Changing Starlight to Electricity	12 1955	light, electricity, sun, solar, power, photometer
Cleminshaw, C. H. News Release from Caltech	Daylight and Twilight	1 1956	Earth, time, Sun, calendar, twilight, equator
Cleminshaw, C. H. News Release from Caltech	Evolution of the Stars	1 1956	cosmic, explosion, element
Alter, Dinsmore	This New World We Live In	2 1956	World War II, bomb, Hydrogen, peace, physics, Moon
Alter, Dinsmore	Sunset on Ptolemaeus	2 1956	Ptolemaeus, Moon, crater, observe, telescope
Hagar, Charles F.	The Zeiss Planetarium	3 1956	Planetarium, Zeiss, GO, Huygens, Bauersfeld, diagram, working

<u>author</u>	<u>title</u>	<u>mo</u>	<u>year</u>	<u>key words</u>
Cleminshaw, C. H.	The Big Dipper	4	1956	Dipper, Big, North Star, Polaris, observe, telescope, sky, galaxy, Ursa, nebula
Alter, Dinsmore	Correction of Lunar			foreshorten, Moon, photo,
Roques, Paul E.	Foreshortening	5	1956	observe, telescope, crater
Cleminshaw, C. H.	The Story of Mars	6	1956	Mars, revolve, Sun, distance, conjunction, atmosphere, canal comet, superstition, pseudoscience, death, Halley, panic
Alter, Dinsmore	Comets and People	7	1956	
	Walter Sydney Adams: 1876			
Alter, Dinsmore	December 20-1956 May 11	8	1956	Adams, Wilson, observatory
Alter, Dinsmore	The Artificial Satellite	8	1956	Germany, V-2, rocket, satellite, artificial
Alter, Dinsmore	The August Meteors	8	1956	meteor, shower, Perseid, fireball
Cleminshaw, C. H.	The Twenty Brightest Stars	9	1956	Rigel, Betelgeuse, Sirius, luminosity, size, data
	The Flagstaff Conventions:			
Cragg, Thomas A.	1956 August 28 - September			convention, Flagstaff, Arizona,
Alter, Dinsmore	1	10	1956	telescope, talks, party
-	The People Present at Flagstaff			
	Convention	10	1956	Photo
Roques, Paul E.	Extensive Cloud Activity on			telescope, Mars,
	Mars	10	1956	atmosphere, cloud, activity
Alter, Dinsmore	The Lunar Eclipse of 1956			Moon, eclipse, observe, GO,
	November 17	11	1956	sky, telescope
Cleminshaw, C. H.	A Star's Daily Path Across the			
	Sky	11	1956	zenith, star, sky, meridian, daily
Davis, Watson	Man Not Alone in Universe,			life, universe, survey, proof,
	Astronomers Say	11	1956	alien
				Moon, observe, meteor, sky,
				telescope, discovery,
Haas, Walter H.	The Association of Lunar and			Association of Lunar and
	Planetary Observers	12	1956	Planetary Observers, ALPO
Alter, Dinsmore	Ptolemaeus and Alphonsus	12	1956	Ptolemaeus, Alphonsus, Moon, crater
Alter, Dinsmore	The 1957 Artificial Satellite	1	1957	Vanguard, satellite, artificial,
Press Release				equipment, instrument
from Westmont				
College	Westmont College Observatory	1	1957	Westmont college observatory
	Radio Astronomy: At the			
	California Institute of			radio, sky, observe, Doppler,
Bolton, John G.	Technology	2	1957	Owens Valley
Alter, Dinsmore	An Incan Solar Observatory	2	1957	Inca, Indian, stamp, Mexico, Italy, Galileo
Harvey, W. J.	Aberration of Light	3	1957	Bradley, aberration, atmosphere, parallax, circle, distance
Cleminshaw, C. H.	An Equatorial Sundial	4	1957	sundial, equatorial, Sun, time, equation
Alter, Dinsmore	A Novel Planetarium Show	4	1957	GO, show, planetarium, design comet, Arend-Roland, photo,
Alter, Dinsmore	The Arend-Roland Comet	4	1957	telescope, observe

<u>author</u>	<u>title</u>	<u>mo year</u>	<u>key words</u>
Cleminshaw, C. H.	Orbits of Comets and Earth Satellites	5 1957	geometry, satellite, comet, model, equation, Kepler, Halley, angle
Alter, Dinsmore	A Photographic Mosaic of the Milky Way	6 1957	photo, Milky Way, Planetarium, show, GO, map
Alter, Dinsmore	Parade of the Milky Way	6 1957	GO, shows, Milky Way, Planetarium
Roques, Paul E.	Photographic Observations of Comet Arend-Roland	7 1957	comet, Arend-Roland, photo, analysis, dust, cloud, observe
Joy, Alfred H.	Henry Norris Russell	8 1957	Russell, death, Hertzsprung-
Anonymous	Whittier Astronomical Society	8 1957	Russell, diagram, interests
Anonymous	Mira Costa Astronomy Club	8 1957	Whittier, society, meteor
			Mira Costa, club, observatory
			observe, sky, conjunction, Venus,
Cleminshaw, C. H.	Positions of the Planets	9 1957	Mars, Jupiter, Saturn, Mercury
	An Exhibit of Chesley		
Cleminshaw, C. H.	Bonestell's Paintings	10 1957	GO, paint, Bonestell
Alter, Dinsmore	The Satellite	11 1957	Soviet Union, Sputnik, space
Alter, Dinsmore	Foreshadowing Space Travel	11 1957	race, Moon, aristocracy, beat, rocket, Moon, travel,
Alter, Dinsmore	Man on the Moon	11 1957	foreshadow, limit
			Moon, travel, diameter, weigh,
			temperature, electric, power
			launch vehicle, orbit, velocity,
Hagen, John P.	The Satellite Launching Vehicle - Placing the Satellite in Orbit	12 1957	altitude, temperature, satellite, design
			satellite, Newton, motion,
			equation, acceleration, Sputnik,
Cleminshaw, C. H.	Motions of Earth Satellites	1 1958	geometry
Alter, Dinsmore	The Moment of Decision	2 1958	turning point, calendar, fire,
Hollister, C.	Appearance and Reality in the		printing press, mathematics
Warren	History of Science	2 1958	Copernicus, Greece, Ptolemy,
			Almagest, Kepler, Newton,
			Einstein
			observe, sky, telescope,
			Mercury, Venus, Mars, Jupiter,
Cleminshaw, C. H.	The Planets in 1958	3 1958	Saturn
Alter, Dinsmore	Twenty-Three Years of the Griffith Observatory	4 1958	GO, retirement, Alter,
			Planetarium
			morphological, Newton,
			extreme, complete field
			coverage, gravity, equation,
Zwicky, F.	News on Gravitation and Nuclear Goblins	5 1958	cluster, galaxy, density
-	Dr. Alter Honored	5 1958	GO
			Palomar, observatory, Milky
			Way, Andromeda, galaxy,
			Eridanus, luminosity,
Bowen, I. S.	The Universe from Palomar	6 1958	temperature
			Los Angeles, society,
Robinson, L. J.	The Los Angeles Astronomical Society	7 1958	Astronomical, amateur,
Copeland, Leland S.	A Short Trail to the Historic Nebula	7 1958	observatory
			observe, Nebula,
			telescope, sky, Draco

<u>author</u>	<u>title</u>	<u>mo year</u>	<u>key words</u>
Hollister, C. Warren Copeland, Leland S.	The Idea of a Moving Earth Sight-Seeing in Sagittarius	8 1958 9 1958	Weltschauung, world, view, Greece, Philolaus, Ptolemy, Copernicus, Kepler Sagittarius, Aratus, Orion, telescope, sky, observe gegenschein, glow, sky, observe, Brorson, amateur, study
Richardson, Robert S. Bunton, George W. Hagar, Charles F.	The Earth's Ghostly Companion in Space The Paradox of the Falling Satellite	9 1958 9 1958	satellite, parado, equation, velocity, friction, acceleration gravity, luminosity, mass, radius, Boyle, Charles, law, temperature, fusion, pressure, Hertzsprung-Russell diagram
Abell, George O. Richardson, Robert S.	The Structure and Evolution of Stars (Part 1 of 2) Icarus - A Celestial VIP	10 1958 10 1958	asteroid, orbit, Baade, Icarus Hertzsprung-Russell diagram, Hydrogen, luminosity, evolution, protostar, Hoyle, Swartzschild, dwarf, supernova Mars, closet, approach, atmosphere, life, canal, observe
Abell, George O. Richardson, Robert S.	The Structure and Evolution of Stars (Part 2 of 2) Mars Swings Near Again	11 1958 11 1958	Bethlehem, birth, Christ, religion, Christmas, nova, Venus, Jupiter, Saturn Palomar, observe, universe, time, telescope GO
Richardson, Robert S. News Release from Caltech -	The Star of Bethlehem - Fact or Myth? The Next Five Years at Palomar Exhibits of the Space Age	12 1958 12 1958 12 1958	balloon, telescope, unmanned, manned, observe, stratosphere, Schmidt satellite, Newton, gravity, centrifugal, motion
Mihalas, Dimitri M. News Release from JPL News Release from JPL & NASA Leaflet from Astronomical Society of Pacific	The Fable of Centrifugal Force Shooting the Moon Pioneer III Rotation in the Solar System	1 1959 2 1959 2 1959 2 1959	probe, Moon, flight, plan, pass, trajectory, tracking probe, Pioneer, failure, atmosphere rotation, Venus, Mars, period, Mercury, Jupiter, Carrington, Sun, Uranus, Neptune Venus, atmosphere, temperature, rotation, axis, cloud, surface Moon, research, surface, photo, GO, Alphonsus, spectrum, gas, discharge
Richardson, Robert S. Alter, Dinsmore	Venus The Alphonsus Story The Brightness of An Extended Surface As Seen in The Telescope	3 1959 3 1959 3 1959	telescope, equation, light gathering, magnify, bright

<u>author</u>	<u>title</u>	<u>mo year</u>	<u>key words</u>
Yanow, Gilbert	Review of Contemporary Satellite Information	4 1959	satellite, Sputnik, instrument, dog, Laika, Explorer, temperature, micrometeor, atmosphere, Atlas, SCORE, Lunik
Killick, Victor W.	The First Amateur Astronomical Observatory of Record in California	4 1959	amateur, telescope, observatory, California, Madeira, Volcano Arizona, meteorite, crater, Barringer, Iron, Jakosky,
Norton, O. Richard	The Barringer Meteorite Crater	5 1959	survey, Volz
Copeland, Leland S.	That Wonderwork, Coma Berenices	5 1959	Coma Berenices, Egypt, constellation, Cyrene
Spitz, Armand N.	Planetarium: An Analysis of Opportunities and Obligations	6 1959	Planetarium management, operation, education
- Richardson, Robert S.	The First International Meeting of Planetarium Executives	6 1959	Planetarium, Meeting, Photo Jupiter, rotation, Great Red Spot, atmosphere
Richardson, Robert S.	What Kind of a World is Jupiter?	6 1959	Newton, gravity, Encke, comet, velocity, perihelion
Richardson, Robert S.	The Mystery Of the Motion of Encke's Comet	7 1959	Solar system, scale, Jupiter, sun, size, light year
Cleminshaw, C. H.	The Scale of The Solar System	7 1959	Novae, Ophiuchi, explosion, spectrum, recurrent Sun, setting,
Roques, Paul E.	Recurrent Stellar Explosions	8 1959	Copernicus, atmosphere, prove, Jupiter, satellite
Richardson, Robert S.	Illusion and Reality in the Universe	8 1959	Venus, Soviet Union, Kozrev, spectrum, life, photo, period, rotation
Richardson, Robert S.	Some Recent Russian Observations of Venus	9 1959	Foucault, pendulum, Earth, rotation, GO, exhibit
Cleminshaw, C. H. Bunton, G. W.	The Foucault Pendulum	9 1959	amateur, professional, Ptolemy, Stevenson
Copeland, Leland S.	The Importance of Being an Amateur	10 1959	celestial, shadow, equation, Moon, eclipse, diameter, Earth
Cleminshaw, C. H.	Sizes of Celestial Shadows	10 1959	atmosphere, telescope, observe, interference, scatter, light, twinkle
Mihalas, Dimitri	Atmospheric Effects on Observations	11 1959	Moon, dark side, tide, libration in longitude, Mercury, diurnal, observation
Richardson, Robert S.	The Other Side of the Moon	11 1959	Mars, Moon, sky, observe, Phobos, Deimos, Earth
Richardson, Robert S.	The Sky from Mars and the Moon	12 1959	Jupiter, temperature, moonquakes, Sun, magnetic field, supernova
News Release from Caltech	Astronomical News from Cal Tech	12 1959	Galileo, aberration, satellite, Saturn, optical, spherical, long focus, Hevelius, chromatic, reflector, Newton
Norton, O. Richard	Optical Aberrations and the Early Development of the Telescope (Part 1 of 2)	1 1960	

<u>author</u>	<u>title</u>	<u>mo year</u>	<u>key words</u>
Norton, O. Richard	Aberrations and the Early Development of the Telescope (Part 2 of 2)	2 1960	Herschel, refractor, Uranus, Newton, achromatic, Dolland, Lens, Foucault astrology, Babylon, Ptolemy, cult, pseudoscience, horoscope, zodiac
Cleminshaw, C. H.	Astrology	2 1960	Sun, bright, mass, luminosity, Schwarzschild, granulation, telescope, atmosphere
Richardson, Robert S.	Our Sun Among the Stars Address at the Dedication of the Astronomers' Monument at the Griffith Observatory, Los Angeles, November 25, 1934	3 1960	
Adams, W. S.	Efforts to Detect Life Beyond the Earth	4 1960	GO, monument, dedication
Richardson, Robert S.	Twenty-Fifth Anniversary of the Griffith Observatory and Planetarium	4 1960	life, alien, planet, stellar, model, frequency, Ozma
Anonymous	The Founding of Griffith Observatory	5 1960	GO, anniversary, planetarium
Whitnall, Gordon	A Study of the Foucault Pendulum	5 1960	GO, Griffith Foucault, pendulum, plane, motion, Earth, rotation, Coriolis effect
Wylie, Paul E.	Imaginary Journeys to the Moon	5 1960	Moon, fiction, Syrian, alien, Lucian, The True Story, Poe, Hans Pfaal, Verne, The Trip to the Moon, Wells, The First Men in the Moon
Richardson, Robert S.	Basic Design for a Moon Building	6 1960	Moon, building, temperature, life, gravity
Richardson Robert S.	Distance Indicators	6 1960	distance, pulsar, bright, Cepheid
News Release from Caltech	The Coming Conjunction of Jupiter and Saturn	6 1960	Saturn, Jupiter, observe, conjunction
Cleminshaw, C. H.	Umbral Lunar Eclipses - 1960 thru 2000	7 1960	Moon, eclipse, visible Los Angeles, umbral
Carothers, Jan		7 1960	astronomical unit, size, solar system, scale, geometry
Reaves, Gibson	The Scale of the Solar System	7 1960	
Douglas, Bruce C.	The Moons of Mars	8 1960	Mars, Phobos, Deimos, satellite calendar, sidereal, anomalistic, tropical,
Richardson, Robert S.	The World Calendar: Calendar of Tomorrow	8 1960	ecliptic, precession, GO, Planetarium, modernization, Zeiss, control, console
Mihalas, Dimitri	Modernization of the Planetarium Control System	9 1960	science, axiom, definition, parallel, postulate, Newton, Maxwell
Hall, Leon	The Basis of Scientific Inquiry Frederick Charles Leonard: 1896-1960	9 1960	Leonard, GO
Douglas, Bruce C.	Planets Plod New Paths in Planetarium	9 1960	GO, Planetarium, projection array, workings
Richardson, Robert S.		10 1960	
Cleminshaw, C. H.			
Hagar, Charles F.			
Bunton, George W.			

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Richardson, Robert S.	Errors in "Round the Moon" By Jules Verne	10 1960	Verne, Round the Moon, fiction, equation, physics, telescope
Richardson, Robert S.	The Transit of Mercury of November 7, 1960: The Uses of Transits	11 1960	transit, Mercury, Sun, telescope, perihelion, equation, parallax
Killgrove, Raymond B.	Science and Mathematics	11 1960	math, science, count, relationship, variable, feedback atmosphere, space, gravity, weightless, satellite,
DuBridge, Lee A.	Adventures in Space	12 1960	psychology, observation
Richardson, Robert S.	December 23: Longest Day in the Year	12 1960	long, day, December 23, annual, Sun, daily, motion
-	Index of Articles in the Griffith Observer (Jan. 1955 - Dec. 1960)	12 1960	GO, index
Wylie, Paul E.	The Tides	1 1961	Moon, Earth, tide, water, gravity
Richardson, Robert S.	"Two Moons" in the Evening Sky	1 1961	Moon, sky, phase, reflected, light
Eastman, Jack	Astronomical Photography in Your Back Yard	2 1961	photography, observe, sky, telescope, amateur, method navigation, Earth, Sun, Moon,
Wylie, Paul E.	Astronomical Navigation	2 1961	line of position
Richardson, Robert S.	Things The Astronomer Does Not Do	3 1961	observe, telescope, routine, comet, hunting
Wylie, Paul E.	Why Don't Artificial Satellites Fall Down?	3 1961	satellite, gravity, orbit, equation, Newton
Latham, Philip	The Aphrodite Project	4 1961	fiction, rocket, Venus, satellite, mass, orbit
Richardson, Robert S.	Orbit of the Russian Venus Probe	4 1961	Soviet Union, probe, Venus, orbit
Roques, Paul E.	Lunar Occultations	4 1961	Moon, occultation, diameter, light
Richardson, Robert S.	Did You See Halley's Comet in 1910?	5 1961	Halley, comet, observe, return, history
Cleminshaw, C. H.	Edmund Halley	5 1961	Halley, life, England, Newton, comet
News Release from Caltech	Ice on The Moon?	5 1961	Moon, Ice, telescope, observe Zeiss, Germany, planetarium, Bauersfeld
Hagar, Charles F.	Through The Eyes of Zeiss	6 1961	Venus, radar, bounce, rotation, astronomical unit, AU, Sun, Earth
News Release from Caltech	The New Value of Earth-Sun Distance	7 1961	Moon, center, equation, Kepler, Newton, motion, phase, calendar, orbit
Wylie, Paul E.	Lunar Motion (Part 1 of 2)	7 1961	Moon, motion, gravity, Kepler, Sun, Venus, equation, Newton, acceleration, regression
Richardson, Robert S.	Flight Into Space - A Cosmic Accident?	8 1961	velocity, escape, Earth, equation, space, flight

<u>author</u>	<u>title</u>	<u>mo year</u>	<u>key words</u>
Green, J.	Geology and Lunar Exploration	9 1961	geology, Earth, Moon, exploration, model, test, mission, site
Russell, John A.	The Fireball of January 16, 1961	9 1961	meteor, GO, Los Angeles, sound, orbit, calculation
Richardson, Robert S.	Making An Astronomer: 30 Years Ago and Today	10 1961	letter, free, picture, study, University, course, radio asteroid, Vesta, Ceres, observe, sky, telescope, amateur
Cleminshaw, C. H.	The Two Brightest Asteroids	10 1961	radioactive, x-ray, proton, mesons, Yakawa, neutrino
Norton, O. Richard Richardson, Robert S.	Celestial Cyclotrons Measuring Altitudes on the Moon	11 1961 11 1961	Moon, altitude, equation, height Moon, feature, ray, crater, gas, material, form
Alter, Dinsmore	The Nature of the Lunar Rays	12 1961	Moon, watch, Satellite, High School, Explorer, engineer
Hefferan, Vi -	Youth in the Satellite Age Our 25th Anniversary	1 1962 1 1962	GO California, state, observatory, early, geodetic, Sacramento, Davidson
Killick, Victor W. Richardson, Robert S.	California's Early Astro- Geodetic Observatories What Would I Weigh on Pluto?	2 1962 2 1962	Pluto, gravity, equation, Newton, weigh Moon, instrument, spacecraft, Ranger, Agena, sensor, experiment, photography
News Release from JPL Richardson, Robert S.	Sending Instruments to the Moon "Could You Run The Eclipse Over Again, Please?"	3 1962 4 1962	GO, eclipse, Sun, Moon, frequency, geocentric, parallax astronaut, hospitable, isolation, cycle, life, spaceship
Waggoner, James N. Richardson, Robert S.	The Fireside in Outer Space The "End of the World" at the Griffith Observatory	4 1962 5 1962	pseudoscience, world, GO, Earth, astrology, India Moon, Sun, surface, atmosphere, Jupiter, radiation, belt, Supernovae
News Release from Caltech	Astronomical News from Caltech	5 1962	Mira, variable, diameter, spectrum
Schaal, Marilyn W.	The Mira Variables	5 1962	latitude, degree, equator, zenith, survey, distance, geodetic
Wylie, Paul E.	Terrestrial Latitude: And The Size and Shape of the Earth	6 1962	gravity, space, travel, equation, orbit, Newton
Cleminshaw, C. H.	Gravity and Space Travel The Amateur Astronomer's	6 1962	amateur, telescope, mirror, observe, sky
Chilton, Lewis Richardson, Robert S.	Telescope Some Recollections of Edison Pettit (1889-1962)	6 1962 7 1962	Pettit, Wilson, Moon, eclipse, temperature, Mars meteorite, GO, Twenty- Nine Palms
Oriti, Ronald A.	New Meteorite Found	7 1962	Jupiter, satellite, moons, perihelion, opposition
Cleminshaw, C. H.	Jupiter's Satellites	8 1962	time, sidereal, Sun, clock, rotation, Earth, revolution, ephemeris
Wylie, Paul E.	What is Ephemeris Time?	8 1962	

<u>author</u>	<u>title</u>	<u>mo year</u>	<u>key words</u>
Richardson, Robert S. News Release from JPL	Maybe You'll Like it On The Moon! Mariner Spacecraft	8 1962 9 1962	Moon, fiction, live, life Mariner, spacecraft, Venus, instrument, experiment, Atlas Soviet Union, Siberia, meteorite, GO, shower,
Cleminshaw, C. H.	Two Great Siberian Meteorites	9 1962	Tunguska Space, Why, electronic,
Etheridge, Dale A.	Why Go Into Space?	9 1962	science, human, machine
Richardson, Robert S.	Lost on the Moon?... How to find yourself	10 1962	Moon, direction, location, substellar, point, position variable, discovery, flare, drift, telescope, automatic,
Roques, Paul E.	The Discovery of a New Variable Star	11 1962	sequencing, system
Eastman, Jack Richardson, Robert S.	Report on the 14th Annual Western Amateur Astronomers Convention The Temperature of Venus	11 1962 11 1962	amateur, convention, Western, Hawaii Venus, temperature, Mercury, atmosphere
Cleminshaw, C. H.	The Stars of Autumn	11 1962	autumn, observe, Pegasus, Hamal, Big Dipper, Andromeda
Roques, Paul E.	The Observatory that Griffith Built and Its Program of Research	12 1962	GO, Griffith, research, intent, scientific
Richardson, Robert S. News Release from Caltech	Which Polaris Do You Mean? Lunar Night Temperatures	12 1962 12 1962	Polaris, North Star, north pole, Neptune, Uranus, rotation Moon, temperature, infrared, cold
Cleminshaw, C. H.	A Preview of the 1963 Sky	1 1963	sky, observe, eclipse, Moon, phase, planet
Snow, Gaylene	So You think Astronomers Have Beards!!!	1 1963	astronomer, folk, lore, movie, role, beard Edison, talk, levels, needed, scientist,
Seaborg, Glenn T.	The Creation of a Scientist	2 1963	underestimate asteroid, path, sky, observe,
Cleminshaw, C. H.	The Paths of Three Asteroids	2 1963	Ceres, Vesta, Juno
Richardson, Robert S.	Northwest Passage to the Moon	3 1963	play, performance, Moon, Northwest passage
Richardson, Robert S.	Martian Weather on The Earth	3 1963	Mars, weather, Earth
Richardson, Robert S.	A Strange Object	4 1963	comet, Sun, spot, observe, sky
Richardson, Robert S.	Some Comments on the Results of the Mariner II Flight	4 1963	Mariner, Venus, rotation, spectrum, atmosphere supernovae, telescope,
News Release from Caltech	Four Supernovae Found in One Week	4 1963	observe, light, curve, 4182, 1604, 1572, 1054
Cleminshaw, C. H.	A Century of Astronomy (1543- 1642)	5 1963	Copernicus, Ptolemaic, Brahe, Kepler, Galileo
Richardson, Robert S.	Orbit of Mars-1	5 1963	Mars, Soviet Union, probe canal, Mars, pseudo, alien,
Richardson, Robert S.	The "Stolons" of Mars	5 1963	stolon

<u>author</u>	<u>title</u>	<u>mo year</u>	<u>key words</u>
Horowitz, Norman	Is There Life On Other Planets?	6 1963	life, Earth, Nature, amino acid, Venus, Mars
Wylie, Paul E.	The Quest of The Longitude	6 1963	longitude, Greece, Eratosthenes, Strabo, earth, flat, Ptolemy, Moon, Mars
Cleminshaw, C. H.	Eclipses of the Sun and Moon	7 1963	Moon, Sun, eclipse, total, frequency, partial
Richardson, Robert S.	The Eclipse of July 20, 1963	7 1963	Sun, Moon, eclipse, GO, observe, Los Angeles
Cleminshaw, C. H.	When Will the Eclipse Begin? It's Time to Clean Your	7 1963	Sun, moon, eclipse, observe, time, GO
Roques, Paul E. News Release from Caltech	Telescope Lens Water Vapor on Mars	7 1963 7 1963	telescope maintenance Mars, water, atmosphere
Abell, G. O.	Clusters of Galaxies	8 1963	galaxy, cluster, Hubble, spiral, elliptic, irregular, Local Group, mass, light
Richardson, Robert S.	Seth Barnes Nicholson	9 1963	Nicholson, Wilson, observatory, Jupiter, satellite
Richardson, Robert S.	The Peregrinations of a Periscope	9 1963	periscope, GO, Blenny, Charr, Ronquil, exhibit, submarine
Oriti, Ronald A.	The Day of the Eclipse	10 1963	eclipse, observe, Sun, Moon, GO
Richardson, Robert S.	Communication Difficulties	10 1963	eclipse, moon, communication, sun, observe
Richardson, Robert S.	Lightweight Reading for Mars	10 1963	Mars, book, ship, Playboy
News release from Caltech	Largest Kind of Explosion Ever Recorded in Nature	11 1963	nucleus, galaxy, explosion, M82
Richardson, Robert S.	If A Comet Collided with the Earth: "What Would Happen if a comet collided with the earth?"	11 1963	comet, earth, Mars, collision, Halley
Etheridge, Dale A.	Solar Eclipse of July 20, 1963	11 1963	Sun, Moon, eclipse, observe, photo
Cragg, Thomas A.	The First Sunspot of the New Cycle and What it Means	12 1963	Sun, cycle, spot, observe
-	Comets on the Sun	12 1963	observe, comet, Halley, Sun
-	Blame it On Sunspots	12 1963	sun, spot, cycle, discovery
-	Sundials and Solar Geometry	1 1964	sun, dial, geometry, equatorial, create
Owendoff, Robert S.	Daytime Direction-Finding	1 1964	direction, day, stick, shadow, azimuth, diagram, Eskimo
Marshall, Max S.	Martian Microbes	2 1964	Mars, Pasteur, bacteria, microbe, possible life
Richardson, Robert S.	Outlook Dimmer for Life on Mars	2 1964	Life, Mars, chance, alien
Richardson, Robert S.	How NOT to have a Total Solar Eclipse	2 1964	Sun, Moon, eclipse, total, equation
Cleminshaw, C. H.	Triple Conjunctions	2 1964	observe, conjunction, Earth, sky, Jupiter Saturn, Kepler
Richardson, Robert S.	Venusians, Venerians or Venustians	2 1964	Venus, life, name, Latin
Richardson, Robert S.	Encke's Comet to Call This Summer	3 1964	Comet, Encke, observe, probe, idea, orbit

<u>author</u>	<u>title</u>	<u>mo year</u>	<u>key words</u>
Oriti, Ronald A.	How to Recognize a Meteorite	3 1964	meteorite, recognize, identify, aerolite, siderites, siderolite, checklist
Hagar, Charles F.	New Skies for Los Angeles	4 1964	planetarium, GO, Zeiss, new, instrument, projector
Cleminshaw, C. H.	Galileo's Sky	4 1964	Galileo, Jupiter, Saturn, Polaris, Mars, sky
Wylie, Paul E.	Why Do People Study Astronomy?	5 1964	Human, curiosity, Newton, interest, why
Richardson, Robert S.	The Martian Network	5 1964	Mars, steamship, canal, alien, life, intelligent
Richardson, Robert S.	The Five Books You Would Take To Mars	5 1964	Mars, author, book, Shakespeare, Bible, Tolstoy, Carroll
News release from Caltech	The Most Way-Out Object Ever Measured in the Universe	6 1964	quasar, quasi, wavelength, redshift, galaxy, radio
Richardson, Robert S.	Another First for Mercury (?)	6 1964	Mercury, density, gravity, mass, size, velocity
Snow, Gaylene	Tektites are for the Birds!!	6 1964	tektite, bird, Kirkham, meteorite
News Release from Caltech	New Temperature Measures On Jupiter and Its Satellites	7 1964	Jupiter, Ganymede, Callisto, Palomar, temperature, atmosphere
Cleminshaw, C. H.	Four Simple Seasonal Star Maps	7 1964	star, map, constellation, observe, sky
Marhenke, Max W.	Behind the Scenes at the Griffith Observatory	7 1964	GO
Schwarzschild, M.	Prepared Statement on the Space Program	8 1964	Moon, program, flight, reason, manpower, new age
Richardson, Robert S.	A Total Solar Eclipse on Mars	8 1964	Mars, Sun, Deimos, Phobos, eclipse, Moon, Ranger, Atlas, acceleration, gravity
-	Ranger's Pictures of the Moon	9 1964	Goodricke, Algol, binary, Delta, Cephei, variable
Cleminshaw, C. H.	John Goodricke	10 1964	Mariner, spacecraft, Mars, probe, atmosphere
News Release from JPL	Mariner Mars Spacecraft	10 1964	probe, atmosphere
Richardson, Robert S.	Star or Planet or "Stellar Companion"	10 1964	star, planet, Russell
Balogh, David A.	Amateur's Telescope - Build it or Buy it?	10 1964	amateur, telescope, refractor
Epstein, Lewis	Gravity Gradient Attitude	10 1964	satellite, attitude, spin, gravity, gradient
Fairbanks, John	Control	10 1964	life, atmosphere, gas, pressure, weight, radiation, temperature, psychological
Waggoner, James N.	Progress for Safer Manned Spaceflights	11 1964	rotation, day, length, Jupiter, Cassini, ephemeris
Richardson, Robert S.	The Length of a Planet's Day	11 1964	education, high school, astronomy, textbook
Etheridge, Dale A.	Astronomy in the Modern High School	11 1964	Mariner, Mars, temperature, television, occultation, radiation, dust
News Release from JPL	Mission to Mars	12 1964	

<u>author</u>	<u>title</u>	<u>mo year</u>	<u>key words</u>
Balogh, David	Make Your Own Telescope	12 1964	telescope, amateur, create, make, mirror, refraction, reflection
Oriti, Ronald A.	The Fireball of September 3, 1964	1 1965	fireball, meteor, Los Angeles, GO, bolide, Orosi, California
- News Release from JPL	Comet News from Palomar Jupiter's Magnetic Field	1 1965	comet, Carbon, contain, rare Jupiter, magnetic, field, observe Polaris, north, latitude, compass
Cleminshaw, C. H.	Finding North from Polaris	2 1965	Newton, spectrum, dark line, Wollaston, Kirchhoff
Richardson, Robert S.	Why Did Isaac Newton Miss the Dark Solar Lines	2 1965	Mercury, Venus, Mars,
Cleminshaw, C. H.	The Five Brightest Planets	3 1965	Mars, Mariner
-	Martian Target Areas	4 1965	GO, weight, Moon, Mars,
Cleminshaw, C. H.	Your Weights on the Moon and Planets	5 1965	Jupiter, Earth, exhibit
News release from Caltech	New Radio Antenna Telescopic Resolution of Fine Detail	5 1965	NSF, radio, telescope telescope, resolution, detail, equation
Cragg, Thomas A.		5 1965	NASA, Ranger, Moon, observe, Ptolemaeus, crater
Alter, Dinsmore	The Alphonsine Area	6 1965	M82, telescope, photograph, spiral, galaxy, ring
News Release from Caltech	Faint Ring Around Spiral Galaxy M82	6 1965	telescope, focus, magnitude, length, refract, reflect, photometer
Eastman, F. Jack	The Telescope, its Principle and Use	7 1965	white dwarf, observatory, Hyades
News release from Caltech	White Dwarf Stars	7 1965	Quasar, nucleus, pulsar, energy Tesla, coil, GO, works, diagram, lightning, exhibit
News Release from Caltech	Quasars as Pulsating Stars	7 1965	observe, moon, NASA, amateur
Hall, Leon	The Tesla Coil	8 1965	Mars, crater, Mariner, picture
Cameron, Winifred Sawtell	An Appeal for Observations of the Moon	8 1965	Venus, temperature, surface, observe
-	Initial Scientific Interpretation of Mariner IV Photography	9 1965	comet, break, up, defect, ice, snow
News Release from Caltech	The Surface Temperature of Venus	9 1965	earthquake, tsunami, intensity, volcano, tectonic, wave, plutonic
News Release from Smithsonian	Comet Break-ups Tied to Structural Defects	9 1965	globe, Mars, map
Oriti, Ronald A.	Earthquakes	10 1965	lake, dry, meteorite, search Lucerne, meteorite,
Roth, James	Precision Globes of the Planet Mars	10 1965	aerolite, Lucerne
Oriti, Ronald A.	Dry Lakes and Meteorites	11 1965	seeing, telescope, atmosphere, Wilson
Oriti, Ronald A.	The Lucerne Valley Aerolites	11 1965	zodiac, equator, zenith, sun
Cragg, Thomas A.	Seeing The Sun's Daily Path Across the Sky	11 1965	
Cleminshaw, C. H.		12 1965	

<u>author</u>	<u>title</u>	<u>mo year</u>	<u>key words</u>
Oriti, Ronald A.	How Far Can You See?	12 1965	magnitude, brightness, distance, observe
Oriti, Ronald A.	The Largest Meteoritic Diamond	12 1965	Arizona, meteorite, crater, Diablo, diamond
Royer, Ronald E.	Observing Comet Ikeya-Seki during the Day	12 1965	comet, observe, telescope, Ikeya-Seki
Hall, Leon	The Seismograph and its Records	1 1966	seismograph, earthquake, GO, motion, copper coil, exhibit
Cleminshaw, C. H.	Observing Jupiter's Four Brightest Satellites	1 1966	observe, sky, telescope, Jupiter, satellite, Io, Europa, Ganymede, Callisto
Cleminshaw, C. H.	The Thirty Other Moons	2 1966	moon, satellite, Mars, Jupiter, Saturn, Uranus, Neptune
Cleminshaw, C. H.	The Three Outer Planets	3 1966	Uranus, Herschel, orbit, Neptune, Lowell, Pluto
Oriti, Ronald A.	Moonlight	3 1966	Moon, light, reflection, phase, distance
Hall, Leon	Russian Luna Nine	4 1966	Luna, Soviet Union, probe, Moon, surface
Cleminshaw, C. H.	Rendezvous in Space	4 1966	rendezvous, equation, ellipse, Kepler, velocity
Oriti, Ronald A.	Brightness, Intensity, and the Inverse Square Law	4 1966	bright, intensity, Herschel, area, unit, angle
Cleminshaw, C. H.	The Moon's Path in the Sky	5 1966	Moon, observe, sky, ecliptic, equator, path
Oriti, Ronald A.	Two New Meteorites on Display	5 1966	GO, meteorite, exhibit
Cleminshaw, C. H.	Auxiliary Apparatus for the Planetarium	6 1966	GO, planetarium, auxiliary, apparatus
News Release from Caltech	New Antenna to Probe Outer Limits of Deep Space	6 1966	Antenna, Goldstone, track, radio, communication
Roques, Paul E.	And In The Beginning...	7 1966	Hubble, telescope, galaxy, expand, Constant, Big Bang, redshift, cosmology
-	Surveyor I	8 1966	Moon, Surveyor
News Release from Caltech	RR Lyrae Stars	8 1966	RR Lyrae, variable, distance, pulse
Oriti, Ronald A.	Some Recent Information on the Diameter of Pluto	8 1966	Pluto, diameter, mass, Kuiper
Dunham, David W.	The Observation of Lunar Occultations and Grazing	9 1966	Moon, sky, observe, occultation, graze
-	Occultations	9 1966	
-	The Second International Meeting of Planetarium Executives in Bochum, Germany	9 1966	GO, planetarium
Oriti, Ronald A.	Flying Saucers	9 1966	UFO, alien, observe, pseudoscience, saucer, explanation
Cleminshaw, C. H.	Saturn's Rings Edgewise	10 1966	Saturn, ring, observe, edge, Cassini
News Release from Caltech	Temperature of a Comet	10 1966	comet, temperature, Ikeya-Seki
-	Lunar Orbiter Has its Own Dark Room	10 1966	Moon, orbit, photo

<u>author</u>	<u>title</u>	<u>mo year</u>	<u>key words</u>
News Release from Smithsonian	Smithsonian Scientists Report Continents on Mars	10 1966	Mars, continent, Sagan, Pollack comet, orbit, parabola, eccentricity, photo, nucleus, composition
Oriti, Ronald A.	Comets	11 1966	telescope, magnification
Roques, Paul E. News Release from Smithsonian	How to Live With a Telescope Lunar Colonists May Converse Via Radio Ground Waves	11 1966	Moon, colony, radio, waves
News Release from JPL	X-15 Experiment to Help JPL Scientists in Solar Simulation	11 1966	X-15, sun, measure, simulation meteor, shower, igneous, luminous, water, atmosphere, comet, collision
Oriti, Ronald A.	Meteors and Meteor Showers	12 1966	Christ, Bethlehem, Christmas, Augustus, calendar
Cleminshaw, C. H.	The Date of the Birth of Christ	12 1966	Venus, rotation, counterclockwise, period
Cleminshaw, C. H.	The Rotation of Venus	12 1966	Mercury, Mars, Venus, Jupiter, Saturn, observe
Cleminshaw, C. H.	1967 Lunar Occultations and Grazing	1 1967	
Dunham, David W.	Occultation in Early 1967	1 1967	Moon, occultation, observe double star, ascension, Gemini, Castor, Dog, Sirius, cluster, Hyades
Cleminshaw, C. H.	Double Stars and Star Clusters in the Winter Sky	2 1967	photography, Palomar, emulsion, new
News Release Palomar	New Photographic Emulsion Interplanetary Billiards System May Propel Spacecraft of	2 1967	gravity assist, spacecraft, Jupiter
News Release JPL	1970's Christmas days and Easter	2 1967	Christmas, Easter, calendar, leap year, Gregorian
Cleminshaw, C. H.	dates	3 1967	education, frontier, space, Ptolemy, contact
Russell, John A.	Education for the Frontier	3 1967	railroad, time, standard, clocks, uniform
-	The Day of Two Noons Size and Distribution of the	4 1967	
Oriti, Robert A.	Lunar Craters	4 1967	Moon, crater, size, distribution Moon, crater, origin, meteor, volcano, tectonic
Oriti, Robert A. News Release from Caltech	The Origin of Lunar Craters New Light on Quasars	5 1967	quasar, light, diameter, nucleus tektite, glass, silica, liquid, splash, meteor, moon
Oriti, Robert A.	Tektites	6 1967	Surveyor, Moon
-	Surveyor Spacecraft	6 1967	Goddard, Verne, rocket, New Mexico, military
Rhodes, Lynwood Mark	The Man who Reached For Space	7 1967	
Dunham, David W.	Lunar Occultations and Grazing Occultations during the Summer of 1967	7 1967	Moon, occultation, grazing, observe, sky
Oriti, Ronald A. Green, Jack News Release from Caltech	Alternate Interpretations of the Orientale Basin The Need For More Large Telescopes	8 1967 9 1967	Orientale Basin, Orbiter, asteroid, Moon, volcano, impact telescope, Southern Hemisphere, telescope

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News Release from Caltech	New Radio Telescope	9 1967	radio telescope, Owens Valley constellation, star, navigate,
Cleminshaw, C. H.	Navigational Stars	9 1967	Apollo, Rigel, Polaris
Johnson, Arthur W.	Lunar Occultations and Grazing Occultations in late 1967	10 1967	Moon, occultation, grazing, observe, sky
Cleminshaw, C. H.	Mira, The Wonderful Star	10 1967	Mira, Latin, Brahe, observe
Oriti, Ronald A.	Densities of the planets	10 1967	Planet, density hear, Aristotle, sonic, anomalous, ethereal, meteor, fireball
Oriti, Ronald A.	Anomalous Sounds	11 1967	Helium, Sun, discovery,
Cleminshaw, C. H.	Helium, The Sun Gas	11 1967	Newton, Lockyer, spectrum
News release from Palomar	Sunspot Activity on the Stars The Extinction Photometer in	11 1967	star, sun, spot, Helium, convection
Roques, Paul E.	the Hands of the Amateur	12 1967	photometer, research, amateur
Cleminshaw, C. H.	Planet Positions	1 1968	Mercury, Venus, Mars, Jupiter, Saturn, observe, sky
Johnson, Arthur W.	Lunar Occultations and Grazing Occultations in Early 1968	1 1968	Moon, occultation, observe, sky, graze light, life, Sun, spectrum, radiation, ultraviolet, infrared, gamma
Oriti, Ronald A.	Light and Life	2 1968	United States, Soviet Union, Sputnik, Pioneer, Echo, NASA,
Cleminshaw, C. H.	The First Ten Years of the Space Age	3 1968	Mercury eclipse, Moon, Sun, shadow, total
Cleminshaw, C. H.	Eclipses	4 1968	GO, Music
Oriti, Ronald A.	Music in the Planetarium	4 1968	Moon, Krutch, Soviet Union, United States
Oriti, Ronald A.	Why I am Going to the Moon	4 1968	
News Release from Palomar	New Solar Observatory George Ellery Hale (1868-	4 1968	Sun, observe, telescope, solar Hale, Yerkes, Observatory, Wilson, telescope
Cleminshaw, C. H.	1938)	5 1968	
Oriti, Ronald A.	Icarus comes Near	5 1968	asteroid, Ceres, Icarus, meteorite, asteroid, number, comet
Oriti, Ronald A.	Times of Meteorite Fall	6 1968	
News Release from JPL	Antarctic Soil Studies Tektites - Glass from the	6 1968	Antarctic, soil, microorganism Moon, tektite, glass, meteor, impact
Oriti, Ronald A.	Moon?	6 1968	
News Release from JPL	Planetary Landing Craft The Particle and Wave Duality	6 1968	Mars, land, craft, probe, test
Mihalas, Larry	of Light	6 1968	light, particle, wave, Einstein Northern Lights, aurora, radiation, sun, magnetic, pole, wind
Oriti, Ronald A.	The Northern Lights	7 1968	
News Release from Caltech	Pulsars The Value of the Space	7 1968	Pulsar, radio, observatory Humphrey, award, United States, moon
-	Program	7 1968	

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News Release from JPL	Mariner '69 Fact Sheet	7 1968	Mars, Mariner, probe
Lange, Erwin F. News Release from Caltech	Oregon's Moon Country Dr. Zwicky Retires	8 1968 8 1968	Oregon, moon, Surveyor, Crater Lake, volcano Zwicky, retire
Cleminshaw, C. H. News Release from Palomar	Transits of Venus Prediction of Solar Flares	9 1968 9 1968	Venus, moon, Mercury, transit, Horrocks, observe solar, flare, sun, prediction
News Release from Palomar Johnson, Arthur W.	Large Solar Telescope Occultations in Late 1968	9 1968 9 1968	Sun, telescope, revive sky, observe, occultation, Moon
News Release from Palomar	Distance of a Quasar	9 1968	Milky Way, Mathews, Palomar, quasar, distance
Cleminshaw, C. H.	The Riverside Sundial	10 1968	sundial, sun, orbit, Earth, Riverside, Kepler, ecliptic celestial, sphere, Egypt, Greece, Copernicus,
Hagar, Charles F.	The Concept of the Celestial Sphere	11 1968	Galileo, Herschel, constellation New Mexico, conference,
Eastman, F. Jack	Conference	11 1968	university, observe, telescope Hartman, Lucerne Dry Lake, California, meteorite, Arizona
Oriti, Ronald A.	Lucerne Dry Lake Revisited	12 1968	sidereal, solar, day, time, equinox
Oriti, Ronald A.	Sidereal Time	12 1968	Jupiter, Uranus, Mars, conjunction, Virgo
Cleminshaw, C. H. News release from JPL	A Triple Conjunction of Jupiter and Uranus JPL Radar Indicates Icarus tiny, Very Rough	12 1968 12 1968	asteroid, Icarus, radar, observe
-	Occultations in Early 1969	1 1969	Moon, occultation, observe Moon, alien, dark, crater, Clavius, Grimaldi
Oriti, Ronald A.	The Back of the Moon	1 1969	Hipparchus, Copernicus, Galileo, Kepler, Newton, Herschel
Cleminshaw, C. H.	Six Great Astronomers	2 1969	Apollo, Moon, Earth
Oriti, Ronald A. News Release from JPL	Apollo 8 Mariner Mars '69	3 1969 4 1969	Mars, Viking, Mariner, spacecraft, equipment Bruno, life, alien, star, Laplace, Kant, spectral, star, Mercury, Mars
Oriti, Ronald A.	Life On Other Worlds	5 1969	Southern Cross, observe, Big Dipper, constellation
Bunton, George W. News release JPL	The Southern Cross Irregular Pulsar	6 1969 6 1969	Pulsar, irregular telescope, Wilson, Palomar, Caltech
News Release from Palomar	New Telescope at Palomar	6 1969	Moon, NASA, mass, Lunar, orbiter
News Release from JPL	Lunar Mass Concentrations	6 1969	planetarium, architecture, Dow, Calgary, Centennial, Manitoba museum, Strassenburgh, MacMillan, McLaughlin
Hagar, Charles F.	Six Recent Planetariums of Architectural Interest	7 1969	

<u>author</u>	<u>title</u>	<u>mo year</u>	<u>key words</u>
Johnson, Arthur	Occultations - Summer 1969 The "Observing" Climate at the Griffith Observatory (Seeing Conditions at the	7 1969	occultation, observe, Moon
Balogh, David A.	Griffith Observatory 1953-1966)	8 1969	GO
Oriti, Ronald A.	The Canals of Mars	8 1969	Mars, Lowell, canal, Mariner, Verne, fiction
Oriti, Ronald A.	Dr. Cleminshaw Retires	9 1969	GO, Cleminshaw Gizeh, Egypt, Cheops, Stonehenge, Hawkins, Callanish
Etheridge, Dale A.	The Dawn of Astronomy	10 1969	
Johnson, Arthur	Occultations in Late 1969	10 1969	Moon, occultation, observe meteor, observe, count, shower, sporadic, photography, Perseid
Etheridge, Dale A.	Meteor Observing "Travel to the Moon by the Year 2050: Princeton" Astronomer Predicts Space	11 1969	
Science Service Mail	Travel Surprisingly Soon Year 2050: Princeton	11 1969	predict, future, 1930, Moon, space, travel
Roques, Paul E.	The Death of a Giant The Hertzsprung-Russell	12 1969	GO, moon, model Hertzsprung, Russell, diagram, class, variable, giant, dwarf
Cragg, Thomas A.	Diagram Quasars - The Most	12 1969	Jansky, quasar, Hydrogen, redshift, gravitational, cosmology, Doppler, Hubble
Kaufmann, William J.	Remarkable Objects Ever Discovered	1 1970	Moon, occultation, observe
Johnson, Arthur	Occultations in Early 1970	1 1970	textbook, definition, terms, observe, example
-	An 1874 Textbook of Astronomy	1 1970	Herschel, Uranus, Lemonnier, Galileo, Brahe, observe, naked eye, Venus, Jupiter
Oriti, Ronald A.	Extraordinary Naked-Eye Observations of the Planets Two Prehistoric Drawings of Possible Astronomical	1 1970	
Miller, William C.	Significance	2 1970	Navajo, Arizona, Indian, draw, Crab, supernova, cave eclipse, sun, Moon, total, North America, observe
News Release from Smithsonian	Eclipse of the sun for North America in March 1970	2 1970	
Roques, Paul E.	The Good Old Days?	2 1970	Wilson, trail, horse
Richardson, Robert S.	"Acquiring Canopus" Some Comments About the	3 1970	Canopus, observe, atmosphere, politic
Roques, Paul E.	New Director	3 1970	GO, Kaufmann
Roques, Paul E.	Better Eyes With Which to See	3 1970	spectrum, spectrometer, photon
Kaufmann, William J.	Pulsars (Part 1 of 2)	4 1970	Hewish, pulsar, radio, Crab, electron astrology, Aquarius, pseudoscience, zodiac, Hipparchus
Richardson, Robert S.	The Age of Aquarius - When?	4 1970	

<u>author</u>	<u>title</u>	<u>mo year</u>	<u>key words</u>
Etheridge, Dale	The Evolving Planetarium: Recent Advances in Planetarium Technology	4 1970	planetarium association of Canada Pulsars, alien, LGM, Little Green Men,
Kaufmann, William J.	Pulsars (Part 2 of 2)	5 1970	Hewish, evolution, stellar, neutron, model
Livingston, Wm. C.	The Moscow Planetarium	5 1970	Moscow, Soviet Union, planetarium, Portsevsky
Oriti, Ronald A.	The Eclipse of March 7, 1970	5 1970	eclipse, sun, Moon, total, observe
Berman, Louis	The Wayward Heavens in Literature	6 1970	moon, Coleridge, The Rime of the Ancient Mariner, Venus, conjunction
Kaufmann, William J.	Neptune: A Challenge for the Accomplished Amateur	6 1970	Herschel, Uranus, Leverrier, opposition, Triton, observe
Smith, Ronald	Planetary Photography	6 1970	planet, photography, exposure, instruction
Kaufmann, William J.	Current Research on Pulsars Surveying the Sky with	6 1970	Pulsars, research, starquake observe, sky, binocular, Jupiter, Venus
Mitchell, Gordon	Binoculars	6 1970	NASA, Moon, Apollo,
Nixon, Richard M.	The Future of the Space Program	7 1970	Experimental Space Station galaxy, gregarious, cluster, distance, Hubble, constant
Corwin, Harold G.	The Gregarious Galaxies	7 1970	
Johnson, Arthur W.	Occultations in Late 1970	7 1970	Moon, observe, occultation, sky
Friedman, Stanton T.	The Case for the Reality of Flying Saucers	8 1970	UFO, alien, saucer, pseudo, myth, observe
Oriti, Ronald A.	The Argument Against the Existence of Flying Saucers Rebuttal to Oriti's Argument	8 1970	UFO, alien, saucer, pseudoscience, space travel, observe
Friedman, Stanton T.	Against the Existence of Flying Saucers	8 1970	UFO, alien, saucer, pseudo, observe, report
Oriti, Ronald A.	Rebuttal to Friedman's Argument in Favor of Flying Saucers	8 1970	UFO, alien, saucer, pseudoscience, Jefferson, observe
Kaufmann, Barbara H.	Psychological and Philosophical Perspectives on Flying Saucers	8 1970	UFO, alien, saucer, pseudoscience, observe, philosophy, psychology
Kaufmann, William J.			Hyades, Taurus,
DeVorkin, David	The Distance To The Hyades and the Calibration of the Hertzsprung-Russell Diagram	9 1970	Hertzsprung, Russell, cluster, mass, luminosity, distance, Wallerstein, Hodge
Gingerich, Owen	The Central Bureau for Astronomical Telegrams	9 1970	report, telegram, Astronomical Telegrams, supernovae, Schumacher, Harvard
Corwin, Harold G.	Observational Notes on Nebulae in Cygnus	9 1970	Cygnus, nebula, supernovae, observe
Cleminshaw, C. H.	The Cost and Value of the Space Program	9 1970	Apollo, NASA, alcohol, fund, Congress, radio, biology

<u>author</u>	<u>title</u>	<u>mo year</u>	<u>key words</u>
Kaufmann, William J. Hetherington, Norriss S.	WZ Sagittae: An Extraordinary Ultra-Short Period Binary	10 1970	binary, period, short, Sagittae, Sge, relativity
Corwin, Harold G. Richardson, Robert S.	The Shapley-Curtis Debate Observational Notes on Clusters in Cygnus	10 1970	Shapley, Curtis, debate, universe, size, galaxy, Cepheid Cygnus, Northern Cross, observe, cluster, galaxy
News Release from Smithsonian	The Stars and Serendipity Three More Eclipses for North America	10 1970	Newton, gravity, Neptune, Mars, Greenland, Walpole eclipse, North America, Sun, Moon, observe, total star, death, supernovae, black hole, neutron star, white dwarf, pulsar, neutrino, relativity
Thorne, Kip S.	The Death of A Star "The Red Star in the Face Called the Dog"	11 1970	Dog, Sirius, Ptolemy, Strindberg
Latham, Philip	The Exploding Galaxy NGC 1275	11 1970	galaxy, radio, telescope, Perseus, Lynds
Kaufmann, William J.	The Detection of X-Ray Emission From a Quasar!	11 1970	quasar, x-ray, Centaurus, detection
Gaustad, John E.	The Composition of the Interstellar Dust	12 1970	Milky Way, galaxy, molecule, Hydrogen, interstellar, material, dust
Irwin, John B.	The 1970 International Astronomical Meetings in England	12 1970	England, meeting, Copernicus, Oort, discussion
Corwin, Harold G.	Observational Notes on the Pegasus I Cloud	12 1970	Pegasus, cloud, galaxy, cluster, observe
DeVorkin, David H.	Double Star Astronomy and the Search for Unseen Planetary Companions of Stars	1 1971	planet, double, binary, Jupiter, Kumar, Riccioli, Mizar, observe, astrometric, detection, proper geometry, Euclidean, Hubble, constant, open, closed, flat,
Kaufmann, William J.	The Curvature of Space and the Ohio Survey	1 1971	Ohio University, survey moon, occultation, Sigma, Sagittarii, Tauri
Johnson, Arthur Roques, Paul E. Whitt, Patricia K.	Occultations in Early 1971 Dust Between the Planets	1 1971 2 1971	interplanetary, dust, material, ecliptic, gegenschein, zodiac
Etheridge, Dale A.	A Decade of Lunar Conquest	2 1971	Moon, satellite, mission, Apollo, Luna, Ranger, United States
Kaufmann, William J.	Recent Infrared Observations of Stars	2 1971	Herschel, infrared, Angstroms, radiation, Chi Cygni, Betelgeuse
Slater, John M.	Automated Celestial Navigation	2 1971	navigation, automatic, star, track, Gyros
Kaufmann, William J.	624 Hektor Airborne Observations of the	3 1971	Herschel, Kepler, three- body problem, asteroid, Hektor, Trojan
Keller, Charles F.	1970 Total Solar Eclipse Observational Notes on the	3 1971	observe, Sun, moon, eclipse, total, airplane
Corwin, Harold G.	Local Group	3 1971	Milky Way, galaxy, Local Group, cluster

<u>author</u>	<u>title</u>	<u>mo year</u>	<u>key words</u>
Kratage, M. L. Wood, D. B.	Space Astronomy	4 1971	space, telescope, United States, Soviet Union, observe
Harrison, E. R.	The Grin Cosmologies	4 1971	Cosmology, Carroll, Alice in Wonderland, Cheshire Cat, galaxy
Richardson, Robert S.	"What is the Latest Quotation on the Universe?"	4 1971	GO, cluster, galaxy, distance, Hubble, constant, cosmology
Arana, Louis R. Pietraszko, Philip M.	The Leonid Meteor Shower Constellations - Myth or Reality?	4 1971 5 1971	Leonid, meteor, shower, observe, Weber legend, myth, constellation, story, religion, oral
Kaufmann, William J.	Maffei 1: New Massive Member of the Local Group	5 1971	Local group, Maffei, reddening, observe, mass
Kaufmann, William J.	The Nature of the Neutron Star	5 1971	stellar, model, neutron, state, nuclei, pulsar, superfluity, superconductivity
Corwin, Harold G.	Observational Notes on the NGC 488 Group	5 1971	cluster, group, galaxy, observe, mass
Etheridge, Dale A.	After Apollo: Man's Role in Space (Part 1 of 4)	6 1971	Apollo, Moon, man, space, NASA, Skylab
Kaufmann, William J.	Recent Observations of the Crab Pulsar NP 0532	6 1971	Taurus, Crab Nebula, pulsar, supernovae
Cleminshaw, C. H.	Another Look at Kepler's Laws	6 1971	Kepler, law, Aristotle, ellipse, sun, planetary, motion
Corwin, Harold G.	Observational Notes on the M101 Group	6 1971	M101, galaxy, cluster, Local Group
Roques, Paul E.	The Moon Rock was Great?	7 1971	Moon, rock, NASA, GO
Kaufmann, William J.	Recent Observations of Galaxies	7 1971	galaxy, Hubble, Wilson, infrared, ultraviolet, mass, quasar
Etheridge, Dale A.	After Apollo: Five Months in Space (Part 2 of 4)	7 1971	Apollo, Moon, Skylab, NASA, station
Etheridge, Dale A.	Getting Away from it All: The Mission of Apollo 15	7 1971	Apollo, Moon, Irwin, land, NASA, Apennine
Menke, David H. Bornstein, Joann Hetherington, Norriss S.	A Brief Discussion of Red Giants and White Dwarfs Lowell's Theory of Life on Mars	7 1971 8 1971	red giant, white dwarf, Hertzsprung, Russell, Helium, Hydrogen Lowell, Mars, life, alien, atmosphere, canal
Wallis, Brad D.	1971: The Era of Kepler	8 1971	Kepler, planetary, motion, Brahe, Newton
Roques, Paul E.	When Mars is Near	8 1971	Mars, polar, cap, rotation, moon, Phobos
Kaufmann, William J.	Experimental Tests of the General Theory of Relativity	8 1971	Einstein, relativity, Mercury, redshift, light, proof, microwave
Etheridge, Dale A.	After Apollo: Living in Space (Part 3 of 4)	8 1971	Apollo, moon, space, man, living, Saturn V, Skylab
Etheridge, Dale A.	Astronaut Helmets As Radiation Detectors	9 1971	radiation, sun, helmet, detect
Kaufmann, William J.	The Discovery of A Collapsar	9 1971	white dwarf, neutron, star, pulsar, black hole, collapsar
Etheridge, Dale A.	After Apollo: Science in Space (Part 4 of 4)	9 1971	Skylab, sun, observe, biomedical, spectra, technology

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Woddell, Ray K.	"Space Navigation"	9 1971	navigation, sextant, Earth, space
Kaufmann, William J.	X-Ray Observations from Uhuru	9 1971	X-ray, satellite, NASA, Uhuru, Cyg X-1, pulsar
Dickinson, Terence	Mars - A New World to Explore	10 1971	Mars, Mariner, exploration, impact, soft landing, Viking, Sagan, dust, atmosphere
Kaufmann, William J.	Recent Research on Quasars	10 1971	Quasar, quasi-stellar object, redshift, Arp, Gunn
Wallis, Brad D.	Tests of Kodak 2475 Recording Film	10 1971	film, Kodak, photography, amateur, telescope, galaxy, cluster
Provin, Robert	Observational Notes on the Leo I Cloud	10 1971	Cloud, Leo 1, observe, cluster, elliptical, galaxy
Corwin, Harold G.	I Cloud	10 1971	astrology, sign, house, zodiac, Ptolemy, pseudo
Reaves, Gibson	The Rise and Fall of Astrology	11 1971	
Arana, Louis R.	The Aztec Calendar Stone	11 1971	Aztec, calendar, stone, Mexico, Indian, astrology, Mexico
Smith, Ronald L.	Observations of Mercury: Past and Present	11 1971	Mercury, observe, Herschel, rotation, Sun
Corwin, Harold G.	Observational Notes on the Canes Venatici I Cloud	11 1971	observe, cloud, Venatici I, galaxy, cluster
Roques, Paul E.	The True Anno Domini	12 1971	Christ, Rome, Caesar, Augustus, Herod, birth
Kaufmann, William J.	The Foundations of Gravitational Theory	12 1971	gravity, theory, eclipse, predict, Kepler, planetary, motion, Newton
Schmidt, Fred L.	Schmidt Telescope and Modern Astronomy	1 1972	telescope, Schmidt, Palomar, refractor, design
Duncan, Douglas	Lunar Occultations of the Planets	1 1972	moon, occultation, Bessel, Aldebaran, Saturn, Mars
Westbrooke, William J.		1 1972	Einstein, relativity, general, special, space time, vector, geodesic
Kaufmann, William J.	The Foundations of General Relativity	1 1972	Venus, atmosphere, Mariner, clouds, radio, telescope, rotation
Dickinson, Terence	Beneath the Clouds of Venus	2 1972	Mercury, hole, Verne, Journey to the Center of the Earth, fiction, gravity
Richardson, Robert S.	A Hole in Hermes?	2 1972	survey, Michelson, light, distance, Wilson, San Gabriel
Roques, Paul E.	Across Twenty-Two Miles of Canyon	2 1972	Orion, constellation, Taurus, myth, religion, Indians, Egypt, Greece, Hindu
Waldron, Richard	The Legends of Orion	3 1972	Einstein, relativity, test, proof, Mercury, orbit, gravity, redshift
Kaufmann, William J.	Experimental Tests of Relativity	3 1972	Cirrus, clouds, snow, crystal, shape
Roques, Paul E.	Sundogs, Moondogs and Halos	3 1972	Apollo, Moon, land, Pioneer, Jupiter
Etheridge, Dale A.	Apollo 16 - Pioneer F	3 1972	

<u>author</u>	<u>title</u>	<u>mo year</u>	<u>key words</u>
Kaufmann, William J.	The Meaning of the Redshift	4 1972	Doppler, light, distance, Hubble, galaxy, constant, law, cosmology, gravity expand, universe, spectrograph, galaxy, spectrum, cosmology
Roques, Paul E.	See the Universe Expand in One Easy (?) Step The Backyard Mariner: Lawnchair Travels in Time and Space	4 1972	imagination, moon, Copernicus, Andromeda, Praesepe, travel
Wood, Gil Bunton, George W.	Reminiscences of Early Times at Griffith Observatory	4 1972	GO
Kaufmann, William J.	The Black Hole	5 1972	Black Hole, sun, fuel, neutron, white dwarf, sphere, photon, circle, exit cone
Westbrooke, William J.	Pursuing The Moon	5 1972	Moon, transit, meridian, observe, occultation star, Milky Way, comet, observe
Wheeler, Burritt	How I wonder What you are?	6 1972	Einstein, relativity, gravity, waves, light, electromagnetic, observe, black hole
Kaufmann, William J.	Gravitational Waves	6 1972	telescope, Moon, sun, observe, amateur, Mars
Hixson, Robert L.	Telescope Gymnastics	6 1972	Egypt, circumference, Eratosthenes, sun, measure
Jakosky, Bruce	12' of Alexandria	6 1972	Lick observatory
-	Portrait of an Observatory	7 1972	photon, sphere, Einstein, black hole, wormhole, Rosen, relativity
Kaufmann, William J.	Wormholes and White Holes Some Interesting Configurations as Jupiter Moves through Sagittarius	7 1972	Jupiter, Sagittarius, nebula, observe, telescope
Wallis, Brad Halverson, Craig D.	Jupiter and Beta Scorpii: One Year Ago	7 1972	Jupiter, occult, Beta Scorpii, observe
Westbrooke, William J.	Finding New Planets	8 1972	planet, serendipity, Hencke, ecliptic, blink, Neptune, Uranus Big bang, create, steady, state, theory, Hubble,
Kaufmann, William J.	The Creation of the Universe	8 1972	law, background radiation, quasar, cosmology color, filter, visual, spectrum, photography
Roques, Paul E.	The Picture in Astronomy	8 1972	Columbus, Earth, flat, Isabella, Greece, Spain
Reaves, Gibson	Columbus Thought It Was Small	9 1972	nebula, galaxy, Cepheid, Hubble, Seyfert, Centaurus, theory
Kaufmann, William J.	Galaxies and Quasars Observational Notes on the Canes Venatici II Cloud	9 1972	Milky Way, Canes Venatici, cluster, galaxy Halley, comet, ghost, media, pseudoscience, voodoo
Corwin, Harold G.	Canes Venatici II Cloud	9 1972	radio, interstellar, molecule, Hydrogen, 21 centimeter radiation, spectrum
Alter, Dinsmore	Comets and People Radio Astronomical	10 1972	
Verschuur, G. L. Turner, B. E.	Observations of Interstellar Molecules	10 1972	

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Hollister, C. Warren	Appearance and Reality in the History of Science	11 1972	Copernicus, Greece, cosmos, Archimedes, Hipparchus, theory, law, observe, Ptolemy brightness, Brahe, distance, Cepheid, galaxy, Andromeda, spectrum, white dwarf
Mccray, Richard A.	The New Cosmos (Part 1 of 2)	11 1972	x-ray, gamma-ray, infrared, radio, pulsar, radiation
Mccray, Richard A.	The New Cosmos (Part 2 of 2)	12 1972	orrery, design, construction
DeVorkin, David H.	A Versatile Orrery	12 1972	
Richardson, Robert S.	Milton L. Humason	12 1972	GO, Humason
Peterson, Wesley D.	Janus, The Newest Satellite	12 1972	Satellite, Janus, Saturn
Hodge, J. T.	Saturn's Moon of Mystery	12 1972	Titan, atmosphere, Saturn Kodak, photograph, amateur, eclipse, exposure, time, equation
Wallis, Brad D.	Photographing a Total Solar Eclipse	6 1973	Golden, Age, astrophysics, Hubble, x- ray, Apollo, Weber, Galileo
Hall, Donald E.	The New Golden Age of Astronomy	1 1973	questionnaire, amateur, telescope, buy, review, survey
DeVorkin, David H.	Questionnaire for Telescope and Accessory Evaluation and Performance	1 1973	Mars, Mariner, photo, surface Centurion, Anson, Britain, warship, Harrison, navigation, time
-	Mars - Mariner 9	1 1973	quasi, stellar, redshift, radio, Kellerman, interferometry, galaxy
Irwin, John B.	The Case of the Carpenter's Chronometers	2 1973	Mariner, Mars, mission, photo, orbit
Krupp, E. C.	High Energy and Distant Places: Far from the Sirens	2 1973	Copernicus, anniversary, stamp, Poland, Church, De Revolutionibus
-	Mariner 9 Mission Summary	2 1973	Weber, Einstein, gravity, radiation, temperature, Fairbank, diagram, accelerometer, wave, detector star, super, nova, binary, eclipsing, variable
Krupp, E. C.	That Lucky Old Sun Quits Rolling Along	2 1973	ancient, archaeology, Egypt, Lockyer, Hipparchus, precession, temple novae, recurrent, binary, Crab, Sagittae, Walker, Herculis, Roche, limit, Kraft, Crawford, radiation, model
Schueler, Carl F.	Low - Temperature Astrophysics	3 1973	Stonehenge, Britain, archaeology, Aubrey, Hawkins, solstice, summer, alignment, Mayan, Chichen, Itza
Ridpath, Ian	The Stars Always Change	3 1973	Maya, Yucatan, civilization, calendar, Venus, eclipse, table
Wallis, Brad D.	Astro-Archaeology (Part 1 of 2)	3 1973	
Faulkner, John	The Recurrent Novae: Binary Stars in Mortal Embrace	4 1973	
Wallis, Brad D.	Astro-Archaeology (Part 2 of 2)	4 1973	
Krupp, E. C.	Underneath the Mayan Moon	4 1973	

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			Galileo, telescope, Darwin, Jeans, planet, Earth, pulsar, Bell, Barnard, hydrogen, Townes, Miller, progress
Heaton, Harold I.	A Montage of Ancient Histories Proper Alignment of the	5 1973	amateur, telescope, equatorial, mount, instruction
Davis, William F.	Equatorial Mounting	5 1973	China, Shu Cheng, cosmology, Heng, geometry, seismology
Krupp, E. C.	Earthquakes and Mooncakes	5 1973	Egypt, myth, creation, god, Amon-Re, Nile, scarab, beetle, Aten, sun, moon, evil, Mars, Venus
Waldron, Richard	The Kingdom of Amon-Re: The Egyptian Sky, 3,000-330 B.C.	6 1973	color, photography, amateur, focal, length, exposure
Johnson, Thomas J.	Color Astrophotography with Small Instruments	6 1973	
Matteson, James	Optimize Focal Length of Your Telescope for Astrophotography	6 1973	focal, length, photography, amateur
Lorenz, Carmen M.	An Extraordinary Wind	6 1973	Sun, wind, Carrington, storm, temperature, solar, photosphere, radiation, plasma, magnetosphere
Bell, Trudy E.	"A Labor of Love" Biography of Edward Singleton Holden 1846-1914	7 1973	Holden, Lick, director Missouri, California, Navy, Floyd, observe, sky, Barnard, Colton
Sanford, John	Basic Amateur Astro-Photography	7 1973	Astronomy, amateur, photography, film, Moon, planet, Sun, nebula day, time, clock, hour, accurate, Flamsteed, observatory, Greenwich, Harrison, navigation, crystal
Roberds, Wesley M.	On Time	8 1973	Mercury, mission, Mariner, density, diameter
Dickinson, Terence	Mission to Mercury	8 1973	telescope, amateur, aperture, size, detail
Little, Robert T.	The Case for Aperture	8 1973	
Johnson, Thomas J.	The Amateur Astrophotographer Invades the Realm of Galaxies	8 1973	amateur, photography, picture, galaxy, color
Henzl, Leo	Save Those Negatives	8 1973	negative, film, photography, amateur
Herzbrun, Herman	Come, Seeling Night (Part 1 of 2)	8 1973	GO, planetarium, murder, rape, Doe, Kaufmann, consult, trial
Mulholland, J. Derral	The Mystical Mathematician Who Moved The World	9 1973	Newton, Principia, Copernicus, Kepler, Tycho, planet, motion, Harmony of the world, Dream
Herzbrun, Herman	Come, Seeling Night (Part 2 of 2)	9 1973	GO, murder, rape, Doe, trial, light, Thorvaldson
Verschuur, G. L.	Radio Stars	9 1973	radio, star, Crab, Nebula, Sun, flare, interferometer, Antares, Wade, Hjellming, x-ray

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Epstein, Lewis	Pioneer - Jupiter Whiplash	9 1973	Jupiter, gravity, assist, Pioneer, mission, demonstration
Winkler, Louis	Astronomical and Astrological Content of Common Almanacs in Early America	10 1973	America, almanac, astrology, Pierce, calculation, Farmer, tabular, Moon, position, calendar
Marsden, Brian G.	Comet Kohoutek (1973f): Prospects for Observations	10 1973	Kohoutek, comet, observe, sky, telescope, amateur
Hodge, J. T.	Astronomy Note	10 1973	Venus, cloud, rotation, atmosphere, temperature
Krupp, E. C.	Cosmic Rays And Celebrated Bristlecone Pine	11 1973	cosmic, ray, electroscope, particle, Hess, Rutherford, originate, supernova
Waldron, Richard	Some Instruments of Time in Ancient Astronomy	11 1973	celestial, clock, time, ancient, Sun, Egypt, shadow, wedge, annual, motion, earth, transit, polos, dekan, mana, anaphoric
Oriti, Ronald A.	San Juan Capistrano Meteorite: California's First Observed Fall	11 1973	California, meteor, fall, observe, sky, amateur, San Juan, Capistrano, Skurlock, rock
Bunton, George W.	Primitive Navigation in the Pacific	11 1973	navigation, Polynesian, Pacific, chart, Mattang, Rebbilib, zenith, Cook
Yeomans, Donald K.	The History of Cometary Motions	12 1973	Comet, Chaldean, Aristotle, superstition, fear, Luther, Brahe, periodic, motion, Newton, Encke, composition, study
Seslar, Michael	The Optimum Comet Hunting Equipment	12 1973	comet, amateur, telescope, refractor, reflector, focal, length, eyepiece
Clark, Benjamin	The Long-Delayed Radio Echo - A Tool for Astronomy?	12 1973	radio, wave, delay, light, Van Allen, Stomer, belt, Appleton, Moon, reflection, comet, asteroid, echo
-	Index to Volume 37, 1973	12 1973	GO, index
Underwood, R. S.	The Made to Order Moon	1 1974	Moon, telescope, specification, build, solar, living
Rather, John D. G.	Rainy Day Fun or How to Make Your Very Own lopener	1 1974	Jupiter, radiation, plasma, synchrotron, radio, emission, lopener, diagram
Westbrooke, William J.	The Pursuit of Minor Planets In Search of The Ancient Astronomers: A Review of	1 1974	Hencke, asteroid, belt, Trojan, mass, Ceres, Pallas, Vesta, Mercury, search, occultation
Krupp, E. C.	Beyond Stonehenge	1 1974	Beyond Stonehenge, book, Hawkins, ancient, religious
Westbrooke, William J.	The Mystery of Pluto	2 1974	Pluto, Leverrier, Galle, Lowell, blink, microscope, filar, size, density, diameter, observe, sky,

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Shipman, Harry L.	Megaliths and The Moon: Eclipse Prediction in the Stonehenge Era	2 1974	Stonehenge, eclipse, Sun, Moon, archaeology, Megalithic, position, Harvest, Welsh, Scottish
Ridolfo, Frank	A New Era In Manned Spaceflight	2 1974	Apollo, Soyuz, United States, Russia, cooperation, Slayton, Skylab, relation, international, Mars, land
Baublitz, Millard	The Milky Way and Its Spiral Structures	3 1974	Milky Way, galaxy, structure, spiral, observe, sky, radio, wave, hydrogen, Doppler, arm archaeology, ancient, supernova, Crab, China,
Knight, Pamela R.	Archeological Astronomy and Astronomical Archeology On Predicting The Brightness of	3 1974	record, Stonehenge, Hawkins Kohoutek, comet, perihelion, brightness, sky, observe, density, faint
Halverson, Craig Nichiporuk, Mirjana	Net Comets or Why Did Kohoutek Faint?	3 1974	telescope, photograph, focal, length, eyepiece, amateur, equation, magnification, microscope
Wallis, Brad D.	Another Alternative to the Guiding Problem	3 1974	Kerr, Einstein, rotating, black, hole, Schwarzschild, ergosphere, flashbulb
Kaufmann, William J.	Ergospheres And Rotating Black Holes	3 1974	Daniken, Chariots of the Gods, pseudoscience, Nazca plain, ancient, astronauts, symbol, Tiahuanaco, Maya, Sumerian, archaeology, Bible, Egypt, Peru, Ecuador
Krupp, E. C.	The Von Daniken Phenomenon	4 1974	
Matson, Lawrence R.	The Enigmatic Comet - Kohoutek	4 1974	Kohoutek, comet, observe, sky, telescope, dim, nucleus, theory
-	Venus from Mariner 10	4 1974	Mariner, Venus, photo amateur, hobby, telescope, storage, maintenance
Roques, Paul E.	How to Live with A Telescope	4 1974	order, universe, cosmology, thermodynamic, paradox, Olbers, expansion, photon,
Malville, J. McKim	Time's Arrow and the Expansion of Space	5 1974	temperature, time, equilibrium galaxy, Hubble, ellipsoid, spiral, structure, inner,
Bregman, Joel N.	Spiral Galaxies, the Pinwheels of the Universe	5 1974	outer, composition, interstellar, medium, model, star, formation black hole, Cygnus, Schwarzschild, stellar,
Flannery, Brian P.	Cygnus X-1, A Black Hole Discovered?	5 1974	evolution, formation, x- ray, source Mariner, Mars, mission, globe, assembly, photomosaic, build, photo
Whitehead, A. Bruce	The Photomosaic Globe of Mars	6 1974	star, formation, nebula, Star Trek, molecule, infrared, observation, cloud, protostar
Evans, Neal J. Zuckerman, Benjamin M.	A Modern Look at Star Formation	7 1974	

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Shostak, Seth	Quasars: Can They Shift for Themselves?	7 1974	quasar, Hubble, Doppler, redshift, observe, luminosity, galaxy
Krupp, E. C.	Misplacing the Past: A Review of Lost Discoveries	7 1974	Lost Discoveries, Ronan, Antikythera, review, book, Megalithic
Wylie, Paul E.	The International Date Line	7 1974	International Date line, meridian, date, time, Greenwich
Halverson, Craig	A New Look at Jupiter, The "Hot" Planet	7 1974	Jupiter, atmosphere, methane, ammonia, equator, observe, color, photo, Pioneer
Nigiotis, Ted	Astronomy Note: Pendeli - Center for Greek Astronomical Research	7 1974	Pendeli, observatory, Greece, Newall, telescope, research
Papagiannis, Michael D.	Could You Build A Better Universe?	8 1974	universe, machine, Cosmos, proton, neutron, force, temperature, chemistry, biology, intelligence, evolution
Irwin, John. B.	The Case of the Exploding Crab	8 1974	Zeti Tauri, Crab, nebula, supernova, guest, star, China, Bevis, Slipher, distance, expansion, Bell, pulsar
Verschuur, G. L.	Reflections On The Search for Extraterrestrial Life	9 1974	life, hydrogen, radiation, 21cm, extraterrestrial, search, Planck, radio, Bell, pulsar, LGM, Cyclops
Underwood, Ralph S.	Three Faces of the Universe	9 1974	universe, flat, Copernicus, Newton, expand, Wallace, Hubble, Doppler, spectra, galaxy
Fernie, J. D.	Transits and Travels, Trials and Tribulations	10 1974	Aristarchus, Moon, sun, transit, Kepler, Venus, distance, Mercury, Wales, Newcomb
Benford, Gregory	The Large Moons: Life as We Don't Know it	10 1974	Moon, hydrogen, escape velocity, Kuiper, Titan, atmosphere, Ganymede, Jupiter, Saturn, water, methane, ammonia, evolution, life
Bell, Trudy E.	"Garblings and Perversions": The Dudley Observatory Controversy	11 1974	Dudley, observatory, Gould, Cambridge, Massachusetts, Bache, Armsby, controversy, argument
Krupp, E. C.	Sun and Stones on Medicine Mountain	11 1974	Britain, Megalithic, Stonehenge, alignment, Sun, Moon, solstice, Medicine Wheel, season, Indian
Hirshfeld, Alan W.	The Leviathan of Parsonstown - An Amateur Astronomer's Dream	12 1974	Parson, amateur, Rosse, telescope, build, Leviathan, mirror, observe
Golden, Leslie M.	Simplicity vs. Human Nature: The Acceptance of the Copernican Theory	12 1974	Copernicus, revolution, geocentric, heliocentric, Aristotle, Ptolemy, Galileo, universe, center, Rome, church

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-	Amateur Astrophotography	12 1974	amateur, photo, Moon
-	Index to Volume 38, 1974	12 1974	GO, index
Young, Arthur Richardson, Robert S.	The Structure of Scientific Thought	1 1975	physics, Newton, intuition, evidence, Constitution, Laplace Mars, life, water, bear, Tardigrada
	Are there "Bears" On Mars?	1 1975	horoscope, zodiac, validity, destiny, sign, house, ecliptic, Greece,
Winkler, Louis	Astronomical and Nonmystical Aspects of Horoscopy	1 1975	Lilly, astrology, Moon, Druid, Kiaran, Callanish, stone, Megalithic, mourner
Krupp, E. C.	Mourners for the Moon	1 1975	Jupiter, effect, San Andreas, earthquake,
Upton, Edward K. L.	The Great Earthquake Hoax	1 1975	alignment, sunspot, planet, Pluto
-	Amateur Photography	1 1975	Amateur, photo
	Giordano Bruno and the Infinite Universe	2 1975	Bruno, monk, burn, church, Renaissance, Italy, heliocentric, Copernicus, infinite, universe China, Shu King, stars, astronomy, Yao, constellation, mansion, paranatellion,
Staal, Julius D. W.	The Prehistoric Stars of Imperial China	2 1975	tortoise, dragon, bird, tiger GO, statue, Monument, Hipparchus, observation, position, object, sky, motion, Copernicus, Ptolemaic, Galileo, telescope, Kepler, law, Newton, gravity, law, motion, Herschel, Uranus, satellite
Cleminshaw, C. H. Richardson, Robert S.	Some of History's Great Astronomers	3 1975	measurement, standard, Kelvin, Henry, distance, meter life, Jupiter, condition, atmosphere, pressure, temperature, evolution
H., David Menke, JoAnn	Casual Comments on Exact Measurements	3 1975	gravity, law, Newton, motion, equation
Wylie, Paul E.	Life On The Planet Jupiter	3 1975	calendar, Julian, Caesar, Scaliger, period, cycle, Moon Britain, stone, megalithic, Castle Rigg, Carles
Cleminshaw, C. H.	Deriving the Law of Gravitation	3 1975	meteorite, identification, stone, type, iron, achondrites, chondrites, ataxites, pallasite, steps
Krupp, E. C.	The Julian Period	4 1975	Black Hole, observe, Einstein, x- ray, Centaurus, velocity, radial, Cygnus
Oriti, Ronald A.	The Ring at Castle Rigg	4 1975	explode, stars, neutron, black hole, grass, Big Bang, dwarf, mass, pulsar
Whelan, John	How to Recognize a Meteorite	4 1975	
	Discovering Black Holes by Optical Observations of X-Ray Binaries	4 1975	
Wheeler, J. Craig	Black Holes, Neutron Stars, And the Green, Green Grass	5 1975	

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Krupp, E. C.	Astronomical Msings (sp)	5	1975	Greek, muse, Harvard College Observatory, Pickering, women Sun, atmosphere, spectrum, temperature, chromosphere, magnetic, field, sunspot
Michalitsanos, Andrew G.	The Sun's Turbulent Atmosphere Spots, Magnetism and	6	1975	
Evans, David S. Moffett, Thomas J.	Fireworks: The Story of the Red Dwarf Flare Stars	6	1975	Dwarf, Ceti, flare, star, Lovell, radio, light, curve, spot Earth, motion, passenger, ship, Newton, rotation, spin, galactic, motion, solar
Irwin, John B.	The Case of the Back and Forth Passenger	7	1975	nebula, Herschel, planetary, ring, spectrum, velocity
Hawley, Steven A.	The Planetary Nebulae - An Astronomer's Standard Candle?	7	1975	Big Bang, evolution, cosmology, Hubble, expand, gravity,
Silk, Joseph	The Evolution of the Universe: A Layperson's Guide to the Big Bang	7	1975	thermonuclear, Gamov, black body radiation, black hole, microwave, collapse, expand time, standard clock, Newton, Copernican, Earth, sun, rotation, Greenwich, gravity clock, atomic
Mulholland, J. Derral	The Search for Time	8	1975	Earth, Moon, gravity, center of mass, atmosphere, Mars, life
Sperling, Norm Verschuur, G. L. (sp)	Earth Science for Martians Hynek and the U.F.O. Controversy (A Commentary)	8	1975	Hynek, UFO, alien, life, Condon, bad, eyewitness Milky Way,
Upton, Edward K.	The Summer Milky Way	8	1975	constellations, star, observe, sky, telescope, binoculars The Great Earthquake Hoax, Jupiter Effect, sunspot, futurologist
Gribbin, John	It's The Real Thing (A Reply)	8	1975	supernova, Taurus, Chinese, observe, sky, ozone, destroy, cosmic ray
Verschuur, Gerrit L.	Stardeath	9	1975	Arizona, meteorite, crater, main mass, length, diameter
Oriti, Ronald A.	A Photographic Expedition to the Arizona Meteorite Crater	9	1975	calendar, solar, equinox, Stonehenge, Thom
Krupp, E. C.	Bisecting the Year	9	1975	
Roques, Paul E.	Astronomical Instrument Care: Part 1 - The Eyepiece	9	1975	eyepiece, care, clean origin, evolution,
Crutcher, Richard M. Upton, Edward K. L.	The Origin and Evolution of the Solar System	10	1975	Evans, Zuckerman, rocky, gas, planet, Pluto, Moon, formation planet, farthest, Planet X, Pluto, Neptune, orbit
Krupp, E. C.	The Farthest Planet	10	1975	Britain, stone, Long Meg, summer, solstice
Krupp, E. C.	Long Meg and Her Daughters	10	1975	objective lens, cell, mirror, removal, care, clean
Roques, Paul E. Tinsley, Beatrice M.	Astronomical Instrument Care: Part 2 - The Objective Expanding Universe	10	1975	cosmology, universe, expand, Hubble, Milky Way, Big Bang

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Oriti, Ronald A.	The Tunguska Event	11 1975	Russia, Tunguska, asteroid,
-	Planetarium Directors' Meeting	11 1975	Siberia, impact, comet, anti-matter, nuclear, black hole, carbonaceous chondrite, hypothesis
Oriti, Ronald A.	New Comet Found	11 1975	GO, photo
Roques, Paul E.	Astronomical Instrument Care: Part 3 - Collimation	11 1975	Comet, 1975h, Kobayashi-Berger-Milon
Upton, Edward K. L.	The Night of the Nova	11 1975	objective lens, clean, care, collimation, refractor, reflecting Nova, Cygni, observe, sky, telescope, photograph, Mayer
Krupp, E. C.	Rollright and the Whispering Knights	12 1975	Rollright, stone, Britain, legend, folklore
Oriti, Ronald A.	The Star of Bethlehem	12 1975	Christmas, star, Christ, eclipse, Moon, Bethlehem, supernova, conjunction
Roques, Paul E.	Buying a Christmas Telescope - Satisfaction Guaranteed?	12 1975	telescope, buy, retail, store, quality
-	Index to Volume 39, 1975	12 1975	GO, index
N., Peter	Solar Activity and its Influence on Weather	1 1976	Sun, solar activity, weather, sunspot, Hale, Allen, belt, climatic, Brown
Wilkinson, Althea	Where do We Go From Here?		Earth, people, space, colonization, pollution, L5, O'Neill, NASA, Model 1
McCarthy, Terrence M.	Thoughts on the Proposed Colonization of Space	1 1976	astrolabe, time, height, compass, equinox, solstice, mater, rete, typanun, alidade, Ptolemy, Moslem
Koppany, Robert	The Astrolabe	1 1976	
Roques, Paul E.	Astronomical Instrument Care: Part 4 - The Mounting	1 1976	mounting, care, clean
Krupp, E. C.	Christening the Galaxies	2 1976	Hubble, galaxy, Rosse, spiral, labyrinth, nebula, classification, elliptical, spiral, irregular
Oriti, Ronald A.	Some Thoughts On Flying Saucers and UFOs	2 1976	UFO, report, eyewitness, unexplained, believe, contact, alien, imagination
Roques, Paul E.	Astronomical Instrument Care: Part 5 - Balance	2 1976	Balance, care, clean
Cleminshaw, C. H.	Relations Between the Periods of Mercury, Venus and Earth	3 1976	Venus, Mercury, Earth, rotation, period, orbital, synodic, equation, day
Oriti, Ronald A.	Celestial Monsters	3 1976	celestial, monsters, Pare, comet, Savoy, evil
-	Amateur Astrophotography	3 1976	amateur, photo
Krupp, E. C.	Stonehenge: The New Astronomy (A Brief Introduction)	4 1976	Stonehenge, Britain, Megalithic, Lockyer, Newham, summer, solstice
Bunton, George	Stonehenge A Fifty-Six Year		Stonehenge, Hawkin, eclipse, cycle, carbon- dating, tropical
W. Ciotti, Joseph E.	Eclipse Cycle?	4 1976	year, equation, lunation

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Mayer, Ben	From the Wastepaper Basket to the Smithsonian	4 1976	Mayer, discovery, ARCTU, meteor, tracking, camera, automatic, nova, Cygni ARTU, SCAMP, Self-Contained Astronomical Mobile Platform, trailer, desert
Mayer, Ben	You Can Take it With You	4 1976	GO
-	The 1976 Winners	5 1976	radiation, belt, magnetic field, Earth, Sputnik, Van Allen, cosmic radiation, magnetism, flare
Stern, David P.	Beyond the Radiation Belt	6 1976	Wittenberg, sun, sunspot, Welser, inquisition, motion, surface, Wilson, magnetic field, theory, Herschel
Walter, R. Kenneth	Trouble Spots on the Sun	6 1976	Quasars, quasi stellar, radio source, Sandage, Schmidt, velocity, red shift, spectrum, Hubble, ultraviolet, energy
Pasachoff, Jay M.	Quasars	6 1976	Britain, circle, stone, Thom, Megalithic, geometry
Krupp, E. C.	Megalithic Eggs	6 1976	Greenwood, Harvard, Newton, Europe, professor, quadrant.
Bell, Trudy E.	Greenwood	7 1976	alcoholism
Seeberg, Stanley J.	The Adventure of Chasing a Comet	7 1976	comet, chasing, observe, sky, telescope, West, amateur
-	Comet West - A Photographers Comet	7 1976	Comet, photo
Dengler, Alyce	A Nature-Faker's Guide to Interpretation in the Rough	7 1976	National Park Service, interpreter, appearance, audience, program, speech
Tenn, Joe S.	The Search for Solar Neutrinos	8 1976	Sun, neutrino, mass, search, Pauli, equation, Fermi, temperature, SNU, Bachcall, Davis, Chlorine
Oriti, Ronald A.	Tom Cragg Moves to Australia	8 1976	Cragg, GO, Wilson, Australia
Roques, Paul E.	The Observer's Log Book	8 1976	Observer, log book, notes, information, good
Heintz, W. D.	The Story of VW Cephei	8 1976	Cephei, variable star, contact binaries, Hershey, discovery
Krupp, E. C.	A New Full Moon	8 1976	Moon, travel, GO, model
			interstellar medium, matter, universe, dust, spectrum, hydrogen, Copernicus, absorption, element
Snow, Theodore P.	The Interstellar Medium: Much Ado About Nothing?	9 1976	Sirius, Dogon, Egypt, Mexico, China, Babylon, Maya, Indian, god, temple
Sever, Thomas Lee	The Obsession with the Star Sirius	9 1976	Dogon, Sirius, Temple, The Sirius Mystery, cosmology, Oannes
Krupp, E. C.	On Not Taking it Seriously	9 1976	

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Irwin, John B.	The Case for Impractical Science	10 1976	Astronomy, usefulness, money, public, image, Einstein, benefit, clock, practical, impractical, politics, selling
Seldon, Sandra	The Eighth Annual Riverside Telescope Makers Conference	10 1976	Riverside, telescope, amateur, makers, Polaris Astronomical Society, award, observe sky earthquake, starquake, moonquake, magnitude, intensity, Wood- Neumann scale, faults
Oriti, Ronald A. Oriti, Barbara E. Duncan, Douglas K.	Earthquakes, Moonquakes and Starquakes (Part 1 of 2)	10 1976	
	Approaching the Speed of	11 1976	speed, light, Roemer, Bradley, measure, method, terrestrial,
Hawley, Steven A.	Light		Michelson, experiment earthquake, moonquake, starquake, tectonics, prediction, trigger, pulsar
Oriti, Ronald A. Oriti, Barbara E.	Earthquakes, Moonquakes and Starquakes (Part 2 of 2)	11 1976	elliptic, equation, eccentricity, Britain, Thom, Megalithic, geometric, stone
Krupp, E. C.	An Elliptical Question	11 1976	Big Bang, galaxy, Einstein, temperature, cloud, gravity, Jeans length, turbulence
Zeilik, Michael	The Big Bang and the Birth of Galaxies	12 1976	Christmas, star, Greek, astar, constellation, linguistic
Rodman, Robert	A Linguistic Note on the Christmas Star	12 1976	Stonehenge, Britain, Thom, Tumli,
Van Millingen, B. A.	Surrounding Stonehenge - An Investigation	12 1976	coordinate, azimuth, histogram
-	Index to Volume 40, 1976	12 1976	GO, index meteorite, asteroid, crater, Arizona, siderite, Barringer, fossil
Rubin, Alan Edward	The Great Depression	1 1977	supernova, atlas, identification, handbook
Sanford, John	A Proposed Supernova Identification Atlas	1 1977	observe, photography, camera, equation
Jones, Robert E.	Exposures for Unguided Field Photography	1 1977	observe, photography, film, print, equation
Jones, Robert E.	Printing Star Field Photographs	1 1977	spectroscopy, spectrogram, absorption, Hydrogen, element
Irwin, John	The Case of the Peculiar Pickets	2 1977	Tesla, coil, GO, ball, New York, Colorado, exhibit
Koppany, Bob	Nikola Tesla and His Famous Coil	2 1977	Tesla, coil, GO, exhibit, create, guide
Barton, Mark	The Tesla Coil: Its Care and Feeding	2 1977	
Benford, Gregory	Shrouded in Mystery: The Exploration of Venus (Part 1 of 2)	3 1977	Venus, exploration, yellow, temperature, spin, radar
Benford, Gregory	Shrouded in Mystery: Venus and Planetary Evolution (Part 2 of 2)	3 1977	greenhouse, Earth, Venus, Carbon Dioxide, clouds, terraform

<u>author</u>	<u>title</u>	<u>mo year</u>	<u>key words</u>
Berger, Benita Verschuur, Gerrit L.	Seventeenth Century Discoveries the Impact of the "New Astronomie" Starfolk	4 1977 4 1977	Kepler, Galileo, Copernicus, orbit, Donne, center, Earth, telescope life, alien, search, Big Bang, Hydrogen, radio, contact
Gribbin, John -	Thiotimeline and Spoonbending: the Tachyonic Link The 1977 Winners	4 1977 5 1977	Thiotimeline, Asimov, pseudo, tachyon, Geller, cosmic, ray, Einstein, Relativity GO
Upton, Edward K. L.	The Leonids Were Dead, They Said Cahokia: Corn, Commerce and the Cosmos	5 1977 5 1977	Leonid, asteroid, meteor, observe Itza, Caracol, Cahokia, Illinois, Indian, city, agriculture
Krupp, E. C.		5 1977	sun, milky way, fusion, nucleosynthesis, neutrino, spot
Gribbin, John	How "Normal" is Our Sun? The Influence of Nonscientific Literature on the Development of Astronomy	6 1977	
Reaves, Gibson		6 1977	Bible, Copernicus, Laplace, Buck Rogers observatory, build, telescope, observe, guide
Mayer, Ben	A Flip-top Observatory Cassini IV at the Paris Observatory, 1785-1793: An Institution revolutionized & Revolutionized	6 1977 7 1977	
Chapin, Seymour L.		7 1977	Cassini, France, Louis XIV, Royal Observatory, revolution, Lakanal pseudoscience, Daniken, Inca, Nazca, Indian, alien, Maya, Chichen, Bible, Egypt
Krupp, E. C.	The von Daniken Phenomenon	7 1977	planet, guide, create, eccentricity, orbit, precession Rings, Saturn, Uranus, Neptune, Elliot, Herschel
Ball, Michael T.	Installation of Your New Planet	8 1977	Kepler, Sun, cloud, volcano, observe Mexico, Maya, Chichen Itza, symbol, myth, religion, Mesoamerica,
Krupp, E. C.	Lords of the Rings	8 1977	Kukulcan, Caracol, Indian Moon, Sun, Greece, Earth, Aristarchus, Aristotle, Eratosthenes
Lunan, Duncan	A Dust Cloud Orbiting the Sun?	8 1977	Cygnid Swansong, nova, observe, photography Egypt, Sirius, Dogon, Nile, Censorinus, Rome, Venus galaxy, Milky Way, Hubble, Local Group, x- ray white hole, black hole, Narlikar, Einstein, Seyfert, elliptical, galaxy
Krupp, E. C.	The Observatory of Kukulcan	9 1977	
Irwin, John B.	The Case of the Celestial Shadows Cygnid Swansong: A Nova Revisited	10 1977 10 1977	
Mayer, Ben Luckerman, Marvin Arnold	More Sirius Difficulties Astronomy's New Superstars: Supergiant Galaxies	10 1977 11 1977	
Tucker, Wallace H.		11 1977	
Gribbin, John	Cosmic Gushers: White Holes and the Universe The Ninth Annual Riverside Telescope Makers' Conference	11 1977 11 1977	
Selden, Sandra		11 1977	Gaea, life, Lovelock, Margulis, atmosphere, plant, Venus, ozone, Sun
Verschuur, Gerrit L.	The Gaea Hypothesis - Our Living Planet	12 1977	

<u>author</u>	<u>title</u>	<u>mo year</u>	<u>key words</u>
Mayer, Ben	The Blinking Astronomer	12 1977	equipment, photograph, compare, blink, Carousel, camera
Pesch, Roland	The Last Sirius Inquiry?	12 1977	Sirius, Dogon, Mali, symbol, myth, religion
Thompson, David J.	Gamma Ray Astronomy: through a Gas Darkly	1 1978	Gamma ray, x-ray, Milky Way, Crab, nebula, pulsar, Cygnus planet, asteroid, minor planet,
Rubin, Alan Edward	The Missing Planet	1 1978	Piazzi, Olbers, belt, meteor
	Descent in the Maelstrom: A Look into the Center of the Galaxy		Milky Way, galaxy, nucleus, radiation, radio, Oort, Rougar, Sagittarius, arm, Big Bang thermodynamic, Clausius, entropy, Newton, Boltzmann, Hubble, constant, spectra, density, open,
Preston, Douglas		2 1978	close
Layzer, David	Is the Universe Running Down?	2 1978	Egypt, Pyramid, geometry, Cole, Smyth, sundial meridian, Latin, Naval Observatory, standard, noon, midnight
Krupp, E. C.	Great Pyramid Astronomy	3 1978	Astronomical Society, New York, Sidereal Messenger, White, first, Jupiter, minor planet
Oriti, Ronald A.	Noon, Midnight - A.M. or P.M.	3 1978	
	Towers Reaching to the Skies: The First American		
Bell, Trudy E.	Astronomical Society	4 1978	
	Astronomical and Astrological Inscriptions on Ancient Egyptian		
Brugsch, Heinrich	Monuments (Part 1 of 18)	4 1978	Egypt, myth, god, religion
	The Great Columbus Day		eclipse, sun, Moon, observe, Fairwind, cruise
Krupp, E. C.	Eclipse	5 1978	
Day, Mike	The Lunar Influence - Oh,	5 1978	Moon, 2001, Clarke, calendar, Greece
Day, George	Divine Moon		
	Astronomical and Astrological Inscriptions on Ancient Egyptian		
Brugsch, Heinrich	Monuments (Part 2 of 18)	5 1978	Egypt, religion, myth, god, Pronaos, inscription, calendar Astrology, pseudoscience, horoscope, Greece, health, agriculture, sun, planet, moon
Winkler, Louis	Is Astrology Valid?	6 1978	Egypt, religion, god, myth, Venus, zodiac, Mercury, symbol, constellation
	Astronomical and Astrological Inscriptions on Ancient Egyptian		
Brugsch, Heinrich	Monuments (Part 3 of 18)	6 1978	GO
-	The 1978 Winners	7 1978	nuclear, fusion, physics, black box, theoretical, Kelvin, magnetic, Sun, atmosphere, Gamov, Bethe, proton, chain, evolution
	The Golden Era of Theoretical Physics and the Black Box of Stellar Energy		
Bishop, Jeanne E.		7 1978	black hole, galaxy, elliptical, Virgo, cluster
Krupp, E. C.	A Cosmic Blowtorch and a Supermassive Black Hole	7 1978	life, Rome, alien, Aristotle, Galileo, Fontenelle, Huygens, Whewell, Shapley,
	The Grand Analogy: History of the Idea of Extraterrestrial Life		
Bell, Trudy E.		8 1978	

<u>author</u>	<u>title</u>	<u>mo year</u>	<u>key words</u>
Brugsch, Heinrich	Astronomical and Astrological Inscriptions on Ancient Egyptian Monuments (Part 4 of 18)	8 1978	search Egypt, myth, god, religion, Sun, Ra, divinity Kohoutek, comet, observe, Marsden Brackett, Pomona, Steele, observatory
Seslar, Mike	Kohoutek in Perspective	9 1978	
Krupp, E. C.	Something New Under the Stars	9 1978	
Brugsch, Heinrich	Astronomical and Astrological Inscriptions on Ancient Egyptian Monuments (Part 5 of 18)	9 1978	Egypt, myth, god, religion, Moon, Dendera, Horus
McMenomy, Christe Ann	The SPHERE of John of Hollywood in the Renaissance: the 1538 Edition and Philipp Melanchthon's Introduction	10 1978	John of Hollywood, Sphere, terms, celestial, De Sphaera Pluto, satellite, Christy, observe, name
Krupp, E. C.	A Satellite on the Styx	10 1978	
Brugsch, Heinrich	Astronomical and Astrological Inscriptions on Ancient Egyptian Monuments (Part 6 of 18)	10 1978	Osiris, moon, day, Isis, Egypt, religion, god, myth Apollo, meteor, asteroid, Eros, observe, archetype, Earth, Wetherill
Howell, J. Andreas	Apollo to Astrobleme The Great Moon Hoax and Other Extraordinary Astronomical Delusions of the Crowd, etc.	11 1978	Moon, newspaper, New York Sun, Locke, Herschel, Wells, War of the Worlds, radio, Mars, canal
Oriti, Ronald A.	Astronomical and Astrological Inscriptions on Ancient Egyptian Monuments (Part 7 of 18)	11 1978	Egypt, myth, religion, god, Sun, zodiac, Dendera Magi, Bethlehem, Christ, religion, god, birth, Christmas, astrology, Uranus
Ciotti, Joseph E.	The Magi's Star: Misconceptions and New Suggestions	12 1978	Anasazi, Indian, Pueblo, Bonito, Chaco, solstice Mexico, pueblo, Bonito, solstice, Chacoan, Anasazi
Reyman, Jonathan E.	The Winter Solstice at Pueblo Bonito	12 1978	
Reyman, Jonathan E.	The Winter Solstice at Pueblo Bonito (Part 2 of 2)	1 1979	
Briggs, Kenneth W.	Across the Sun: Transits of Mercury and Venus	1 1979	Venus, Mercury, sun, transit, Horrocks, Legentil, observe
Brugsch, Heinrich	Astronomical and Astrological Inscriptions on Ancient Egyptian Monuments (Part 8 of 18)	1 1979	Egypt, Ptolemaic, Venus, Greece, Rome, god, myth, religion
Oberg, James E.	Strange Science Bedfellows: Ancient Eclipses and Modern Astronomy	2 1979	eclipse, Sun, moon, annular, Greece, Rome, god, omen Sun, eclipse, moon, total, Einstein, Lyot
Oriti, Ronald A.	The Scientific Value of Total Eclipses of the Sun	2 1979	
Brugsch, Heinrich	Astronomical and Astrological Inscriptions on Ancient Egyptian Monuments (Part 9 of 18)	2 1979	Mars, Venus, Saturn, Egypt, myth, god, Jupiter Galileo, observe, telescope, Sun, eclipse
Mosley, John	Hints on Viewing the Partially Eclipsed Sun	2 1979	Copernicus, Shapley, Hubble, Milky Way, Jansky, Messier
Irwin, John B.	The Case of the Invisible Center	3 1979	

<u>author</u>	<u>title</u>	<u>mo year</u>	<u>key words</u>
Miner, H. Craig	Aesthetic Astronomy Beyond the Messier Objects	3 1979	telescope, Messier, Murphy, China, nebula, observe
Brugsch, Heinrich	Astronomical and Astrological Inscriptions on Ancient Egyptian Monuments (Part 10 of 18)	3 1979	Egypt, myth, god, Mars, Book of the Dead, morning star, evening star, Venus
Rubin, Alan Edward	Glass Menagerie	4 1979	tektites, volcano, Moon, meteor, meteorite, Australia, LANDSAT
Court, Robert	Black Holes and Remembrance of Things Past	4 1979	Black hole, binary, Wing, Tunguska, meteor, Russia
Brugsch, Heinrich	Astronomical and Astrological Inscriptions on Ancient Egyptian Monuments (Part 11 of 18)	4 1979	constellation, Egypt, religion, myth, god, Sirius, Orion, Isis
Mims, Sam S.	The High Frequency of Binary Stars	5 1979	binary, frequency, double, mass, evolution, number, spectral
Gribbin, John	Parallel Universes: Sideways in Time	5 1979	parallel, universe, time, cosmology, big bang, black hole, quantum, light, particle, Piper, Asimov
Brugsch, Heinrich	Astronomical and Astrological Inscriptions on Ancient Egyptian Monuments (Part 12 of 18)	5 1979	Egypt, myth, god, religion, Thebes, Christian, Ramses
Shaw, Robert	The Discovery of Supernovae	6 1979	supernovae, Hartwig, Milky Way, Crab Nebula, Zwicky
McDermott, Ashley Thomas	The Tenth Annual Riverside Telescope Makers Conference (27-28 May 1978)	6 1979	telescope, build, Riverside, GO
-	The View from Voyager	6 1979	Voyager, Jupiter
Cook, Anthony	The Eclipse of 26 February 1979	6 1979	eclipse, Moon, Sun, total, observe, Canada
-	The 1979 Winners	7 1979	GO
Papagiannis, Michael D.	The Search for Life in the Universe	7 1979	life, alien, colony, cosmology, radio, evolution, Big Bang, galaxy, Pioneer
Hostetter, H. Clyde	The Bowl of Ishtar	7 1979	Babylon, bowl, Ishtar, Saudi Arabia, god, religion, myth
Winkler, Louis	Comets, Almanacs, and the Dead	8 1979	comet, death, almanac, astrology, pseudo, myth, literature
Mosley, John	In Search of New Worlds: Columbus and Apollo	8 1979	Apollo, Columbus, Moon, exploration, Spain, New World
Brugsch, Heinrich	Astronomical and Astrological Inscriptions on Ancient Egyptian Monuments (Part 13 of 18)	8 1979	Egypt, myth, religion, god, Sirius, calendar, Rexit Caroll, Velikovsky, cosmology, Worlds in Collision, pseudo, astrology, psychology, comet, Venus
Chriss, Michael	Scientists in Wonderland: The Strange Case of Dr. Velikovsky	9 1979	Egypt, myth, god, religion, Isis, Sothis, Sirius, constellation, decanal
Brugsch, Heinrich	Astronomical and Astrological Inscriptions on Ancient Egyptian Monuments (Part 14 of 18)	9 1979	

<u>author</u>	<u>title</u>	<u>mo year</u>	<u>key words</u>
Foukal, Peter	Portrait of a Useful Star	10 1979	Edlen, moon, sun, eclipse, corona, magnetic field, hole, temperature, wind
-	Another Bundle of Wonders from Voyager I	10 1979	Voyager, Jupiter
Brugsch, Heinrich	Astronomical and Astrological Inscriptions on Ancient Egyptian Monuments (Part 15 of 18)	10 1979	Egypt, myth, god, religion, constellation, Book of the Dead, Ra, northern group
Crane, Reiko Hibbett	Madness or Genius? The Method of Johannes Kepler	11 1979	Kepler, Astronomia Nova, planetary, law, motion, harmony, gravity, Newton meteor, collision, Earth, Bible, Joshua, Arizona, size
Oriti, Ronald A.	The Bombarded Earth	11 1979	
Brugsch, Heinrich	Astronomical and Astrological Inscriptions on Ancient Egyptian Monuments (Part 16 of 18)	11 1979	Egypt, religion, god, myth, constellation, Decan, Xet-mu Humpty Dumpty, egg, chicken, entropy, Milky Way, universe, Big Bang, open, closed, cosmology
Matilsky, Terry	The Entropy of the Universe or (!) Why They Couldn't Put Humpty Dumpty Together Again	12 1979	
Brugsch, Heinrich	Astronomical and Astrological Inscriptions on Ancient Egyptian Monuments (Part 17 of 18)	12 1979	Egypt, religion, god, myth, rising, Decan, Shin-bone, goddess, Nut
Rubin, Alan Edward	The Magnetic Earth	1 1980	Earth, magnetic, field, Hartmann, compass, Gilbert, sediment, polarity, Cretaceous wormhole, Einstein, relativity, black hole
Finkel, David	Wormholes on the Wane	1 1980	
Brugsch, Heinrich	Astronomical and Astrological Inscriptions on Ancient Egyptian Monuments (Part 18 of 18)	1 1980	Egypt, myth, religion, god, Hour Table, Ramses, clock research, public, funding, Hindsight, government, understand
Persch, Peter	Astronomy: An Apologia	1 1980	galaxy, spiral, NGC 3031, arm, M 81, radio, island, Herschel, Maanen, Slipher, Hubble, trail, lead
Irwin, John	The Case of the Spinning Spirals	2 1980	Amalthea, Jupiter, satellite, Greece, Barnard
Oriti, Ronald A. Purdum, Ginger Richardson, Robert S.	Who Ever Heard of Amalthea	2 1980	Arcturus, Bible, Osler, religion, star, symbol, Sirius, Pleiades, Houseman
Bishop, Jeanne E.	The Light from Arcturus	2 1980	Astronomy, education, United States, public, colony, elementary, Committee of Ten, NASA, planetarium
Oriti, Robert A.	Astronomy Education in the United States: Out from Under a Black Cloud	3 1980	Ganymede, Jupiter, Voyager, Lowell, Mars
	Ganymede: Thirty Years After	3 1980	

<u>author</u>	<u>title</u>	<u>mo year</u>	<u>key words</u>
Maley, Paul D.	Even Asteroids May Have Moons Like Christmas Snowflakes Down a Chimney: The Discovery of Aberration of Starlight	3 1980	minor planet, asteroid, moon, satellite, Hebe, observe, Large Space Telescope
Bell, Trudy E.	Jupiter: Always a Starsmaid, Never a Star	4 1980	Bradley, Molyneux, Draconis, aberration, photon, parallax, Hooke, Cassini star, Jupiter, Voyager, brown dwarf, ideal gas, temperature, quantum mechanic, Pioneer, degenerate
Zimmermann, R. Erik	Griffith J. Griffith and His Park	4 1980	GO, Griffith, Santa Monica Mountain, Felis, Bell, Mowry, religion
Clarke, Charles G.	Lost In Space	5 1980	Voyager, mission control, team, sun, track, Alpha Centauri, signal, Canopus
Fentress, Stephen S.	The Eleventh Annual Riverside Telescope Makers Conference	5 1980	telescope, observe, Riverside, GO, amateur
McDermott, Ashley Thomas	The Stonehenge Replica at Maryhill	5 1980	Hill, Stonehenge, Maryhill, Washington, Stone, Kousbaugh, replica, moon eclipse, Sun, moon, observe, total, India, ice age, Earth, Milankovitch, continent, drift, precession, period, oxygen
Piini, Ernest W.	Stalking the Wild Eclipse	6 1980	Mars, moon, Gulliver's Travels, Phobos, Deimos, Kepler, Newton, Swift
Dryer, Ivan	Waiting for the Next Ice Age	6 1980	Smithsonian, Air and Space, planetarium, Washington DC., Zeiss, Spacearium
Gribbin, John	Who Told Jonathan Swift About the Moons of Mars	7 1980	Newton, spectroscopy, white light, refraction, Herschel, Wollaston, Fraunhofer, Doppler, Kirchhoff, dark, line tektite, meteorite, Earth, Moon, Apollo
Barker, William A. Maggiora, Debra	A Capitol Planetarium	7 1980	GO,
Read, Nicholas	Chasing Rainbows: the Early Development of Astronomical Spectroscopy	8 1980	constellation, Pleiades, moon, Andromeda, Venus
Mims, Sam S.	Tektites: The controversy Continues	8 1980	GO, planetarium
O'Keefe, John A.	P. P. A at Griffith Observatory	8 1980	hourglass, nebula, Red Rectangle, Ant, Cygnus Egg, V645 Cygni
-	Naked Eye Objects: Your Favorites?	8 1980	Sirius, Dogon, Temple, religion, myth, god, alien
Purdam, Ginger Richardson, Robert S.	International Planetarium Society Meets at Alder Planetarium	8 1980	GO
-	The Cosmic Hourglasses	9 1980	Newton, England, Chaloner, Mint, murder
Cohen, Martin	Some Serious Astronomy in the "Sirius Mystery"	9 1980	
Steffey, Philip C.	The 1980 Winners	10 1980	
-	The Man Who Was 'Murdered' by Newton	10 1980	
Reed, George			

<u>author</u>	<u>title</u>	<u>mo year</u>	<u>key words</u>
Mosley, John	Around the Observatory	10 1980	GO moon, mistake, public, advertisement, United States,
Richardson, Robert S.	Wrong Way Moons	10 1980	bible Sun, Helmholtz, Einstein,
Silbar, Margaret L.	Is the Sun Really Shrinking?	11 1980	neutrino, Davis, Shapiro Turkey, archaeoastronomy, symbol,
Matossian, Mary Kilbourne	Symbols of Season and the Passage of Time: Barley and Bees in the New Stone Age	11 1980	season, religion, myth, festival
Mosley, John	Around the Observatory	11 1980	GO Christmas star, Kepler, Bethlehem, Bible, Christ, religion, Jupiter, Martin, Venus,
Mosley, John	When Was that Christmas Star?	12 1980	astrology
Krupp, E. C.	Around the Observatory	12 1980	GO, exhibit
-	Griffith Observer Cumulative Index 1965-1980 Vols. 29-44	12 1980	GO, index Air, atmosphere, Mars, Venus, Jupiter, Sun, life
Gribbin, John	The Air We Breathe	1 1981	Herbig-Haro, gas, star, Lick, Kitt Peak
Cohen, Martin	The Shocking Truth About Herbig-Haro Objects	1 1981	Galileo, lens, Moon, telescope, Venus, Saturn, Sun
Irwin, John B.	The Case of the Lined Up Lenses	2 1981	Christ, religion, star, Christmas, Venus, Mars, Mercury, Saturn, observe, Bethlehem
Mosley, John	The Conjunctions of 3-2 B.C.	2 1981	
-	Baubles, Bangles, and Beads (Adornment for a Plainer Planet)	2 1981	Saturn, Voyager Solar, Sun, Moon, eclipse, California, total, Indian, Dearborn
Bracher, Katherine	Total Solar Eclipses in California	3 1981	Saturn, Voyager, ring
-	Around Saturn's Rings	3 1981	Galaxy, Big Bang, Hubble Cosmology, Hubble, mystery, galaxy
Gribbin, John	How Galaxies Form	4 1981	
Krupp, E. C.	Outdistanced by the Dark Beneath the Rings and Beyond Their Glow	4 1981	Saturn, ring, Voyager star, supernovae, supergiant, Betelgeuse, solar wind, evolution
-	Dieting for Stars or How to Lose 10 ²⁵ Grams per Day (& Feel Better Too!)	4 1981	
Snow, Theodore P.	Triton: Destined to Remain a Mystery	5 1981	Neptune, Triton, moon, Pluto
Croswell, Ken Resse, Ronald	J. J. Scaliger and the Julian Period	5 1981	Scaliger, Renaissance, calendar, Julian, Moon dinosaur, extinct, Sun, luminosity, dust, supernovae, meteorite, comet, Iridium
Lane Everett, Stevan M.		5 1981	Aztec, Mexico, Structure J, Monte Alban
Mosley, John	Death of the Dinosaurs	6 1981	
Hartung, Horst	An Ancient "Astronomer" on a Relief at Monte Alban	6 1981	

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Krupp, E. C	An Aztec "Calendar" Stone: and Its Celestial Seal of Approval	7 1981	Mexico, Aztec, calendar, stone, Indian, Native American, Sun, myth, god
Tucker, Wallace	Reflections from Indra's Web	7 1981	India, god, myth, religion, Indra, sky, quasar, violence, universe star, Tarantula, nebula, International Ultraviolet Explorer, R136i
Krupp, E. C.	More Star Than Ever Before	7 1981	United States, America, eclipse, Sun, solar, Moon, pilgrim, Penobscot, New York America, United States, telescope, education, Harvard, Winthrop, Rittenhouse, Mather Herschel, comet, minor, Vulcan, planet, Greece, Rome, god, myth, Leverrier
Bracher, Katherine	America's First Solar Eclipse Expedition	7 1981	Perseids, meteor, observe, shower
Yeomans, Donald K.	The Shaky Beginning of North American Astronomy	8 1981	Sun, Michelangelo, sunspot, Italy
Winkler, Louis	Vulcan the Unknown	8 1981	Italy
Morgan, James	Meteor Nights	8 1981	GO
Barker, William A.	Portraits in the Sky:	8 1981	radio, astronomy, static, lightning, Jansky, Sun, flare, Reber, Very Large Array, Cygnus
Dreher, Diane E.	Michelangelo and the Sun	8 1981	GO, poll, observe, Moon, Venus, Sirius
-	The 1981 Winners	9 1981	Polaris, Churchill, World War II, politics, Odyssey, Homer
Irwin, John B.	The Case of the Celestial Static	9 1981	Moon, Apollo, Ringwood, origin
Richardson, Robert S.	Dark Shadow Looming	9 1981	Pope, white, dwarf, England, Homer, Eridani Light, Einstein, Relativity, quasar, superluminal, radio, telescope
Barker, William A.	Portraits in the Sky: Sir Winston S. Churchill and Polaris	9 1981	Density, Deuterium, Big Bang, Galaxy, Hydrogen, Jupiter, cosmology
Dreher, Diane E.		9 1981	Asteroid, Eros, Earth, Mars, minor planet
Rubin, Alan			
Edward	The Origin of the Moon	10 1981	
Barker, William A.	Portraits in the Sky: Alexander Pope and the White Dwarf	10 1981	
Dreher, Diane E.		10 1981	
Krupp, E. C.	Faster than a Speeding Light Beam	10 1981	
Lauer, Tod R.	Deuterium and the Destiny of the Universe	11 1981	
Krupp, E. C.	Eros Blows Us a Kiss	11 1981	
-	Under Maya Skies: A FOTO-UCLA field study tour 13-21 March 1982	11 1981	GO, Maya
Hocking, Thomas W.	New Castles in the Skies	12 1981	Shakespeare, Brahe, England, Vedal, supernovae, Nova, Kepler
Dryer, Ivan	Pouli Holo'Oko'A'Ana' A Ka La	12 1981	eclipse, Sun, Moon, planet, observe, Hawaii
-	Gifts for Griffith	12 1981	GO
Reaves, Gibson	Program Notes to William Herschel's Echo Catch	12 1981	Herschel, music, Echo Catch

<u>author</u>	<u>title</u>	<u>mo year</u>	<u>key words</u>
Upton, Edward K. L.	The Great Earthquake Hoax	1 1982	The Jupiter Effect, Gribbin, disaster, pseudoscience, astrology, earthquake
Gribbin, John	The Jupiter Effect Revisited	1 1982	The Jupiter Effect, sunspot, earthquake, sun
Krupp, E. C.	Sizing Up the Line-up	1 1982	The Jupiter Effect, earthquake, alignment, Apocalypse
Silbar, Margaret L.	Neutrinos: Rulers of the Universe?	1 1982	Neutrino, Sun, cosmology, Reines, Cowan, physics, observe, Hubble, big bang, binary, star, blue, straggler, Hertzsprung- Russell, cluster
Mims, Sam S.	Blue Stragglers: Binary Systems or Mixed-up Stars?	2 1982	myth, phenomena, Mercury, Venus, conjunction, god, Inanna, Land of the Dead
Hostetter, H. Clyde	Inanna Visits the Land of the Dead: An Astronomical Interpretation	2 1982	
Steffey, Philip C.	Some Serious Astronomy in the "Sirius Mystery" Part II Spinning Worlds, Spiraling Stars, and Siguis: the Solar System Folklore of the Dogon (Part 1 of 7)	2 1982	Dogon, god, Sigui, Sirius, extraterrestrial, life, alien, myth, religion
Gribbin, John	Base Eight Arithmetic, Meteorites and Us	3 1982	arithmetic, life, alien, intelligence, dinosaur, meteorite
-	Dr. Robert S. Richardson Some Memories of Bob	3 1982	GO, Richardson
Roques, Paul	Richardson	3 1982	GO, Richardson
Steffey, Philip C.	The Serious Astronomy in the "Sirius Mystery" Part II Spinning Worlds, Spiraling Stars and Siguis: the Solar System Folklore of the Dogon (Part 2 of 7)	3 1982	Dogon, god, Sigui, Sirius, Earth, Pillar, myth, religion, Moon, Mars, Milky Way quasar, relativity, Einstein, cosmological constant, Hubble, radio, galaxy
Keel, William C.	A Lens in the Sky: the Case of the Double Quasar	4 1982	quasar, Merlyn, magician, King Arthur, galaxy, star
Barker, William A. Dreher, Diane E.	Portraits in the Sky: Merlyn and a Quasar (3C273)	4 1982	comet, observe, Grigg-Skjellerup, Churyumov-Gerasimenko
Townsend, Charles L.	Two Noteworthy Dark Sky Comets for 1982	4 1982	
Steffey, Philip	The Serious Astronomy in the "Serious Mystery" Part II Spinning Worlds, Spiraling Stars, and Siguis: the Solar System Folklore of the Dogon (Part 3 of 7)	4 1982	Dogon, Jupiter, Sigui, Sirius, Earth, myth, religion
Bracher, Katherine	Painted Cave: a Chumash Indian Eclipse Record?	5 1982	Indian, eclipse, Sun, Moon, cave, paint, Chumash, California

<u>author</u>	<u>title</u>	<u>mo year</u>	<u>key words</u>
Cordell, Bruce M.	Earths: Current Views of How the Rocky Worlds Work	5 1982	plate tectonics, ocean, earthquake, continental, Moon, Mercury, Mars, Venus
Steffey, Philip C.	The Serious Astronomy in the "Sirius Mystery" Part II Spinning Worlds, Spiraling Stars, and Siguis: the Solar System Folklore of the Dogon (Part 4 of 7)	5 1982	Dogon, religion, Sigui, Sirius, myth, religion, ecliptic, Jupiter, Saturn, Milky Way, galaxy
Winter, Frank H.	Observatories in Space, 1920s Style	6 1982	science fiction, observatory, Hale, station, Noordung, Skylab, Hubble Space Telescope
Krupp, E. C.	The Mandate of Heaven	6 1982	China, observe, religion, Ming, Beijing, Heaven
Krupp, E. C.	Sky Riders	6 1982	Greece, god, myth, religion, China, Egypt, sky
Gribbin, John	The Case of the Missing Neutrinos: "Curiouser and Curiouser!"	7 1982	neutrino, Big Bang, Davis, Carroll
Krupp, E. C.	Tombs That Touched the China Sky	7 1982	China, tomb, emperor, religion, myth, Qin Shi Huang Di
Schafer, Edward H.	Astral Energy in Medieval China Prescribing by the Stars: Thousands of Years of Celestial Medicine	7 1982	China, Taoist, god, religion, sky astrology, pseudoscience, myth, doctor, medicine, philosophy
Winkler, Louis B.	Shadows Cast for the Son of Heaven	8 1982	Heaven, China, Shadows, myth, stick, Guo Shou jing
Krupp, E. C.	The Serious Astronomy in the "Sirius Mystery" Part II Spinning Worlds, Spiraling Stars, and Siguis: the Solar System Folklore of the Dogon (Part 5 of 7)	8 1982	Sirius, Dogon, Sigui, religion, ritual, Jupiter, Saturn
Steffey, Philip C.	The 1982 Winners	9 1982	GO
Gribbin, John	The Curious Case of the Shrinking Sun	9 1982	Sun, shrink, Eddy, Greenwich, eclipse, totality, Gilliland
Krupp, E. C.	The Serpent Descending	9 1982	Mexico, Maya, GO, equinox, Castillo, myth, serpent, religion
Irwin, John B.	The Case of the Orange Orb Dark and Enigmatic: The Total Lunar Eclipse of 5-6 July 1982	10 1982	Jupiter, Io, earthquake, Galileo, volcano, magnetic, Voyager
Krupp, E. C.	The Serious Astronomy in the "Sirius Mystery" Part II Spinning Worlds, Spiraling Stars, and Siguis: the Solar System Folklore of the Dogon (Part 6 of 7)	10 1982	GO, Moon, eclipse
Steffey, Philip C.	The Serious Astronomy in the "Sirius Mystery" Part II Spinning Worlds, Spiraling Stars, and Siguis: the Solar System Folklore of the Dogon (Part 6 of 7)	10 1982	Dogon, religion, Sirius, Siguis, Jupiter, Saturn, conjunction, Kepler
-	Astronomical Society of the Pacific Announces 1982 Prizewinners	10 1982	GO
Moyer, Gordon	The Green Flash	11 1982	Sun, sunset, green, observe

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Barker, William A. Dreher, Diane E.	Portraits in the Sky: Baryshnikov and the Crab Pulsar	11 1982	pulsar, Crab, Baryshnikov, dance, Soviet Union
Steffey, Philip C.	The Serious Astronomy in the "Sirius Mystery" Part II Spinning Worlds, Spiraling Stars, and Siguis: the Solar System Folklore of the Dogon (Part 7 of 7)	11 1982	Dogon, Sirius, Siguis, religion, astrophysics, supernovae
-	Shuttling Right Along America's Anticipation of	11 1982	Shuttle, Columbia, observe, GO comet, Halley, United States,
Winkler, Louis B.	Halley's Two Periodic Comets	12 1982	America, observe, colony
Barker, William A. Dreher, Diane E.	Portraits in the Sky: Vladimir Lenin and Betelgeuse	12 1982	Soviet Union, Lenin, Betelgeuse, red giant
Greenberg, Stephen	Observing the Sun with San Fernando Observatory's Solar Patrol	12 1982	Sun, flare, observe, patrol, GO supernovae, China, star,
Enever, J. E.	When Explosions Collide	1 1983	Cygnus, debris, collide, Saturn China, costume, wardrobe,
Krupp, E. C.	Celestial Wardrobe	1 1983	Indian, Mesopotamia
Byrd, Deborah	Those Old Straggler Blues	2 1983	star, evolution, Doppler, blue,
Wheeler, J. Craig	Comet Halley Update	2 1983	Hertzsprung, Russell, diagram comet, Halley, GO
Cook, Anthony			Paradise Lost, Milton, religion, philosophy,
Reese, Ronald Lane	Renaissance Cosmologies in Paradise Lost	2 1983	Shakespeare, cosmology
O'Brien, Jack L.	Minor Planet 1620 Geographos: Circumstances of Its 1983 Passage	2 1983	National Geographic, asteroid, Geographos, Apollo, observe
Townsend, Charles	Paul Roques: Forty Years at Griffith Observatory	2 1983	Roques, GO
Krupp, E. C.			women, Hypatia, Dumea, Howelcke, Herschel, Mitchel, Cannon, Burbidge
Nelson, Debra L.	Daughters of the Sky: A Brief History of Women in Astronomy	3 1983	eclipse, Moon, Sun, Solar, Babylon, predict
Hostetter, H. Clyde	The Eclipse That Failed	3 1983	comet, Halley, Aristotle, Seneca, Greece, Rome, China,
Yeomans, Donald K.	Comet Halley And Some Dubious Achievement Awards	4 1983	Apian, D'angos
Krupp, E. C.	As Far As the Eye Can See	4 1983	Doppler, quasar, PKS, farthest Joan of Arc, Ring
Barker, William A. Dreher, Diane E.	Portraits in the Sky Joan of Arc and the Ring Nebula	4 1983	Nebula, religion, Church, France, England
Johns, Gerald	Thomas Woods and the Parsonstown Monsters	5 1983	telescope, Earl of Rosse, Woods, Parsons, Herschel, Parsonstown
Barker, William A. Dreher, Diane E.	Portraits in the Sky: Lucifer and the Black Hole	5 1983	Lucifer, black hole, Satan, Devil, religion, Paradise Lost, Dante, Inferno, Cygnus
Mosley, John	Misty, the Meteorite-Menaced Cat	5 1983	Misty, Skylab, meteorite, Stevens, cat,

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Zeilik, Michael	The Sunwatchers of Chaco Canyon	6 1983	Indian, Chaco Canyon, Southwest, sun, Anasazi, observe, Pueblo Bonito
Krupp, E. C.	Light and Shadow	6 1983	GO, Yosemite, Hovenweep, Anasazi, Newgrange, Ireland, Kogi, Itza
Platt, Fredrick	Running After Rainbows: Annie Jump Cannon	7 1983	Delaware, Cannon, women, Harvard, star, classification, Draper, Fleming
Hedges, Kathleen	Dear Griffith Observatory	7 1983	GO, letter
Krupp, E. C.	Widening the Eye's Iris	7 1983	Infrared Astronomy Satellite, IRAS, California, Vandenberg, United Kingdom
Krupp, E. C.	Under China Skies	8 1983	China, observe, planetarium, People' Republic of China, GO, Beijing
-	The Ace Moving Company	8 1983	Space Shuttle, Columbia
-	F Troop Musters Into Space	8 1983	Space Shuttle, Challenger
-	Venus and Mars Are All Right, Tonight	8 1983	Mars, Venus, observe, GO
-	The 1983 Winners	9 1983	GO
Goldsmith, Donald	Modern Music of the Spheres: The Millisecond Pulsar	9 1983	Kepler, music, pulsar, Harmonices Mundi, neutron GO, comet, IRAS-Araki-Alcock, Infrared Astronomical Satellite
Krupp, E. C.	Discovered by Satellite: Comet IRAS-Araki-Alcock	9 1983	Crab, Supernovae, Alexander, Nebula, Tycho's, Kepler's, Hellenistic
Barker, William A.	Portraits in the Sky: Alexander the Great and the Crab	9 1983	Maanen, galaxy, Curtis, nebula, Hubble, Hart
Dreher, Diane E.	Supernovae		World War, Japan, UFO, pseudoscience, Venus
Martin, Donald W.	Adriaan van Maanen: How a Good Scientist Went Wrong	10 1983	Inca, Peru, China, observe, zodiac, mythology, Hopi, Maya, Demeter
Olsen, Barbara P.	The Burney Balloon or Venus Dances Backwards	10 1983	Montgolfiere, balloon, Rozier, Arlandes, Lalande, Blanchard, Balloon, France
Krupp, E. C.	Cultivating the Sky	10 1983	eclipse, Sun, Moon, Solar, Ramadan, Islam, observe, India, Mahabharata, Bali
Chapin, Seymour	What Better Way to go to Gotha: Lalande, Blanchard & the Balloon	11 1983	time, Naval Observatory, railroad, zone
Krupp, E. C.	The Great Ramadan Eclipse of 1983	12 1983	tide, storm, Moon, Earth, gravity
Smith, Horace A.	Fighting for Time	1 1984	GO, Lofdahl
Mosley, John	High Tides and Winter Storms	1 1984	Sun, eclipse, Moon
Krupp, E. C.	John Lofdahl Retires	1 1984	Mars, Guzman, canal, life, Lowell, Flammarion
-	Eclipsed Images	1 1984	Abell, GO
Winter, Frank H.	The Strange Case of Madame Guzman and the Mars Mystique	2 1984	Comet, Crommelin, observe
Krupp, E. C.	Dr. George O. Abell	2 1984	
Cook, Anthony	Comet Crommelin Is Coming	2 1984	
Jackson, Francine	The Delicate Silhouette of Venus	3 1984	Venus, observe, transit, Sun

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Cook, Anthony	Comet Halley Update #2	3	1984	comet, Halley, observe, GO
Bracher, Katherine	Sir Francis Drake and Celestial Navigation: Where Was His California Harbor	3	1984	Drake, California, harbor, England, Goleta Astronomical Society of the Pacific, Suntzeff, Winget,
-	The 1983 A.S.P Awards	3	1984	Zel'dovich, award
Herberger, Charles F.	Matching Microcosm with Macrocosm: The Urge to Order Planets of Other Stars: The First Hint	4	1984	brain, order, Boas, Greece, Indian, microcosm
Krupp, E. C.		4	1984	planet, T Tauri, Lick, life, star
Reed, George	Dollond vs. Hall Through an Achromatic Lens	5	1984	Hall, Dollond, telescope, achromatic, Mann, reflector, Newton
-	Sally's Ride, the Midnight Special, the Discovery Rollout, and Spacelab-1	5	1984	shuttle, spacelab, Challenger, Discovery
Kastner, Sidney O.	Shedding Light	6	1984	electron, subatomic, proton, particle, Hydrogen, Oxygen, Bowen
Seidel, David M.	GOES Status	6	1984	GOES, Geostationary
Mosley, John	New Planetarium Computer	6	1984	Operational Environmental Satellite
Chapin, Seymour L.	Saves Lecture's Sanity	6	1984	planetarium, GO, Arion
Schneider, G. R.	P. J. C. Janssen and the Advent of the Spectroscope into Astronomical Prominence	7	1984	Janssen, France, photography, spectroscope,
Eugenia	Under Babylonian Skies	7	1984	spectrum, Sun, eclipse, comet Babylon, observe, pseudo, religion, astrology
Reddy, Francis	Recipe for a Supernovae	8	1984	Supernovae, star, giant, dwarf, white, Palomar,
Krupp, E. C.	Leon Hall	8	1984	red, neutron, Becker, Baade Hall, GO
Fraknoi, Andrew	Testing Astrology	8	1984	astrology, pseudo, science, Bennett, Barth
-	The 1984 Winners	9	1984	GO
Piini, Ernest W.	A Giant Astronomical Instrument of Stone: The Ulugh Beg Observatory	9	1984	Islam, religion, Ulugh Beg, Istanbul, Brahe, religion, Soviet Union, Taragay
Mosley, John	The Universe on a Microcomputer	10	1984	computer, Greece, software, Tellstar II, Planets, Almanac, Star Cataloguer, Moon, star,
Cook, Anthony	Comet Halley Update #3	10	1984	planets, eclipse, World Map Comet, Halley, advertisement, observe, telescope
Sanderson, Richard	The Night It Rained Fire	11	1984	Leonids, meteor shower, observe, North America, electricity
Sakurai, Dorna S.	The Immortal Sun	11	1984	Greece, Plato, Neanderthal, Indian,
Pesavento, Peter	Space Shuttles - CCCP Style	12	1984	Egypt, religion, god, myth shuttle, Soviet Union, military, Australia, Cosmos 1445, Soyuz

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Barker, William A. Dreher, Diane E.	Portraits in the sky: General George S. Patton & Halley's Comet	12 1984	Patton, Halley, comet, World War II, Army
Reed, George	- Galileo Galilei - Dialogue on the Great World Scientist, Man & Myth	1 1985	Galileo, Church, Vatican, Pope, Italy, Copernican, myth, legend telescope, refractor, reflector, observe, pupil
Sperling, Norman	Of Pupils and Brightness	1 1985	Moon, eclipse, Sun, Solar, Mexico, El
Mood, John Mood, Stephanie	El Chichon and the Dark Lunar Eclipses of 1982 or The 2- Meinel Hypothesis Recovered	2 1985	Chichon, NOAA, NASA, volcano
Rilke, Rainer Maria	Venus Setting	2 1985	Venus, GO, Germany GO, Moon, Lunar, eclipse, annular, Mexico, Sun
Krupp, E. C. McCarthy, Donald W.	Reaching for the Ring Red and White, Black and Brown: Hide-and-Seek with the Four Dwarfs	3 1985 4 1985	life, intelligence, other planet, dwarf, Jupiter, brown, red, white, black
Zeitner, Mary Powell, Kenneth E.	Rocks from Space Portraits in the Sky Mohandas	4 1985	GO, planetarium Gandhi, Jupiter, Hindu, satellites
Barker, William A.	K. Gandhi and Jupiter Happy Birthday, Griffith	4 1985	
Injejikian, Susan Armine	Observatory: 50 Years of Public Astronomy Copper Threads Among the	5 1985	GO
Krupp, E. C. Injejikian, Susan Armine	Gold Music of the Sphere	5 1985 5 1985	GO, renovation GO, music
Krupp, E. C.	Stalking the Future Gods and the Sky in Ancient	5 1985	GO, future Scandinavia, Odin, Thor, myth, cosmology, Norse, god
Klepa, Lilian Barker, William A. Dreher, Diane E.	Scandinavia Portraits in the Sky: Cleopatra and the Planet Venus	6 1985 6 1985	Egypt, Venus, Cleopatra Moon, Apollo, Soviet Union, cold war, United States, Saturn, Korolev
Pesavento, Peter Cook, Anthony	The Russians Were Coming Comet Halley Update #4	7 1985 7 1985	telescope, Halley, comet Mars, canal, science fiction, Massachusetts
Lago, Don	The Canals of Lowell The Beginnings of Korean	8 1985	China, Korea, Moon, planet, observe
Marche, Jordan D. -	Astronomy The 1985 Winners	8 1985 9 1985	GO Mauna Kea, galaxy, Hawaii, Canada-France- Hawaii Telescope, CFHT, Freeman, Cepheid
Dickinson, Terence	Probing the Galaxies from Mauna Kea Comet Halley: The 1985-86	9 1985	
Cook, Anthony Herberger, Charles F.	Apparition, an Outline The Odyssey as a Journey Through Time	9 1985 10 1985	Halley, observe, GO Greece, ancient, myth, Odyssey, Homer
Becker, Gary A.	Caroline Herschel: The Light in the Shadow	10 1985	Herschel, England, Uranus, Germany

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Resse, Ronald Lane Williams, C. Reade	An Astronomer's Poet: Alfred, Lord Tennyson Tennyson's Harold and the	11 1985	Milton, Tennyson, poet, Renaissance Tennyson, poet, Harold, Halley, comet
Morton, Bruce Nagy, T. A.	Anachronism of Halley's Comet Comet Light, Comet Bright	11 1985	
Hansen, U. J.	Which Comet Appears Right	11 1985	comet, apparition, Germany, archaeoastronomy, Stonehenge, England, Bailly, Norse, Antediluvian
Chapin L. Seymour	Jean-Sylvain Bailly and "Antediluvian" Astronomy	11 1985	Palitzsch, comet, observe, Christmas, Newton, Halley, Messier, Herschel, Goodricke
Becker, Gary A.	The Christmas Comet of Johann Palitzsch	12 1985	observe, Halley, comet, photography, telescope, film
Coco, Mark Edberg, Stephen	Photographing Halley's Comet	12 1985	comet, Halley, England, discovery, Oxford
Hadley, Diana	"The Sharply Veering Ways of Comets and of Fame"	1 1986	
Cullens, Lynn Tuman, V. S.	Immortality Etched in Stone: Dating Ancient Mesopotamian Stones from Astronomical Symbols	1 1986	ancient, stone, Mesopotamia, god, religion dinosaurs, extinction, life, comet, Nemesis, asteroid, Shiva
Goldsmith, Donald	The Shiva Theory or How Life on Earth Was Nearly Destroyed Halley's Comet in 1910 and 1986: Of Wonder, Doom, and	2 1986	comet, Halley, business, , Comet fever, pseudoscience, doom
McAllister, Susan Injejikian, Susan Armine	Business Boom Dr. Clarence H. Cleminshaw: A "Tough Act to Follow"	2 1986	
Irwin, John B.	The Case of the Converging Cluster	2 1986	Cleminshaw, GO Cepheids, cluster, galaxy, Centaurus, variable, Venus Uranus, Moon, Shakespeare, Herschel, A Mid Summer Night's Dream
Nagy, Theresa A. Dailey, Sheron J.	The Literary Moons of Uranus	3 1986	Comet, Halley, Vega, Suisei, Giotto
Cook, Anthony	Closing in on Comet Halley	3 1986	Soviet Union, Cosmonaut, Gagarin, Korolyov, Kruschev, Mercury, Vostok
Pesavento, Peter	Twelfth of April, 1961: A Look Backward	4 1986	Challenger
-	Mourning the Astronauts	4 1986	Uranus, Moon
-	Knocking on Heaven's Door Comet Halley: The Best Time to	4 1986	
Mosley, John	See It Halley's Comet Hits Griffith	4 1986	Halley, Comet, observe Comet, Halley, GO, anniversary, observe
Krupp, E. C. Fentress, Stephan S.	Observatory For Griffith Observatory - in Its Anniversary Year	5 1986	GO Sun, Solar, England, Stonehenge, Swinside, Sighthill, ancient
Lunan, Duncan	Solar Events at Sighthill Sky Brought Down to Earth: California Indian Ground	6 1986	
Apodaca, Paul	Displays	6 1986	Indian, California, sand painting, Polaris, Pleiades

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Herberger, Charles F.	Mounting to the Moon: 1865 Style Comet Halley: The View from Pioneer Venus An Unexpected	7 1986	Verne, Moon, From the Earth to the Moon and a trip Around it, science fiction, Apollo
Berland, Gretchen	gift from an Old Spacehand Comet Halley: Serendipity on the Desert	7 1986	Venus, Pioneer, Halley, comet
Lesser, Selma	Particle Physics, Cosmology, and the First Hundredth of a Second	7 1986	Halley, comet, observe
Gribbin, John Townsend, Charles	Observational Predictions for the 1987 Return of P/Denning-Fujikawa	8 1986 8 1986	quantum, physics, Hydrogen, atom, galaxy, quasar, Maxwell comet, observe,
Rogers, John Dearborn, David S. P. -	The Death of an Inka The 1986 Winners In the Shadow of Giants: Forgotten Nineteenth Century American Telescope Makers and Their Crucial Role in Popular Astronomy	8 1986 9 1986 9 1986	P/Denning-Fujikawa Inca, ancient, comet, Atahualpa, Capac GO
Bell, Trudy E. Custer, Clarence P. Birch, Robert W.	New Focus on a Pioneer Astronomer	9 1986 9 1986	telescope, United States, Civil War, Clarks Madeira, amateur, Nevada, California, comet, Tebbutt astrophysics, Kirchhoff, Huggins, Draper, England, spectroscope
Tenn, Joseph S. Mosley, John	The Hugginses, the Drapers, and the Rise of Astrophysics Chesley Bonestell 1888-1986	10 1986 10 1986	Bonestell
Krupp, E. C.	Strange Tales of Time and Space	10 1986	Quasar, Milky Way, Black Hole
Irwin, John B.	The Case of the Remarkable Rings	11 1986	Rings, Sun, Earth, tree, atmosphere, Douglass Scotland, Sighthill, archaeoastronomy, air, fly, photography
Lunan, Duncan	Archaeoastronomy from the Air	11 1986	Milky Way, cloud, Planet X, Saturn, The Cosmic Serpent, interstellar, Pluto, Neptune
Lunan, Duncan	Shadows on the Milky Way	12 1986	New Mexico, Salmon, Anasazi, Indian
Orbesen, Tom	Winter Solstice at Salmon Ruin	12 1986	WIMPS, weakly interacting massive particles, Sun, solar, neutrinos, galaxy, Big Bang, dark matter
Gilliland, Ronald L.	Missing Mass, WIMPS, and Solar Neutrinos	1 1987	Esarhaddon, Assyrian, Mesopotamia, king, Egypt, Sun, solar
Tuman, V. S.	Astronomical Dating of Esarhaddon's Stela	1 1987	
Injejikian, Susan Armine	The Universe in Your Mailbox: Observing the Observer's Anniversary	2 1987	GO, 50 Years
Gribbin, John	The Man Who Proved Einstein Was Right	2 1987	Einstein, General Relativity, Eddington

<u>author</u>	<u>title</u>	<u>mo year</u>	<u>key words</u>
Pagan, Miriam	Supplying Stars by the Pageload: Astronomy Magazines for the Public in 1937	2 1987	Popular Astronomy, Griffith Observer, Sky Staal, Fernbank Science Center
Burgess, John W. Herberger, Charles F.	Julius D. W. Staal Samson Strides the Skies	2 1987 3 1987	Bible, god, Samson, Greece, Egypt, Crete
Reese, Ronald Lane Chang, George T.	Once in a Blue Moon	3 1987	moon, blue, full Christopher Columbus, San Salvador, new world, navigation
Kravath, Fred F.	Christopher Columbus, Geodesist	4 1987	eclipse, moon, sun, solar, ancient, Greece, Archilochus
Bracher, Katherine	Mid-day into Black Night: The Eclipse of Archilochus	4 1987	GO, Space Stop, merchandise
Krupp, E. C.	Space Stop's Here	5 1987	Massachusetts, United States, planetarium, Korkosz
Sanderson, Richard	Frank Korkosz and the First American Planetarium	5 1987	
Keen, Roger	First Light: An Astronomical Primer for Real Beginners (Part 1 of 3)	5 1987	sky, beginner, observe, constellation interferometer, radio, intercontinental, Young, Very Large Array, Very Long Baseline Array, VLBA, VLA
Irwin, John B.	The Case of the Intercontinental Interferometer	6 1987	Greece, myth, Phaenomena, Aratus, Zeus
Williams, Jean	Greeks Bearing Myths: The Phaenomena of Aratus	6 1987	
Keen, Roger	First Light: An Astronomical Primer for Real Beginners (Part 2 of 3)	6 1987	telescope, sky, beginner
Benson, Arlene Buckskin, Floyd	How the Seasons Began: An Ajumawi Narrative Involving Sun, Moon, North Star, and South Star	7 1987	season, Indian, Ajumawi, Pit River, Sun. Moon, Moon, Jupiter, Mars, Wilson, GO
-	Sky Jinks	7 1987	
Mosley, John	Have You Seen a Black Hole Lately	7 1987	Black Hole, GO, Cygnus Uranus, Saturn, ring, moon, satellite
Landis, Rob	The Second Ringer	8 1987	
Keen, Roger	First Light: An Astronomical Primer for Real Beginners, Focusing on Telescopes (Part 3 of 3)	8 1987	beginner, telescope, Newton, Schmidt- Cassegrain, Dobsonian
-	The 1987 Winners	9 1987	GO
Sweitzer, James S. Coppola, William C. H	A Most Exceptional Star: The Life of Otto Struve	9 1987	Otto Struve, Russia, Soviet Union, Constantinople, GO archaeoastronomy, Aztec, zodiac, light
Pesavento, Peter	Our Glowing Skies 22 Hours 28 Minutes 4 Seconds Moscow Time: Birth of the Space Age	9 1987 10 1987	Sputnik, Soviet Union, Cold War, United States, Korolyov, Khrushchev
-	History's Countdown to Sputnik 1: A Timeline of Related Events	10 1987	Cold War, Sputnik, Soviet Union, United States

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Tenn, Joseph S.	Simon Newcomb A famous and Forgotten American Astronomer	11 1987	Simon Newcomb, astronomer, Massachusetts, Coast Guard, Brown
Keen, Roger	Take an Option on the Moon (Part 1 of 3)	11 1987	Moon, observe, Mare Imbrium, 2001
Krupp, E. C.	The Dipper in Disguise	12 1987	Big Dipper, Greece, Navajo, Indian, Egypt. China, Finland Christopher Columbus, Europe, Asia, Ptolemy, Arab, Eratosthenes, Aristotle, Archimedes, Posidonius
Kravath, Fred F.	Sizing Up the Earth Before Columbus Sailed	1 1988	
-	Estimates of the Size of the Earth: Third Century B.C. to Fifteenth Century A.D.	1 1988	Earth, size, map, navigation
Ryden, Barbara S.	The Astronomical Odyssey of Monsieur Le Gentil	2 1988	Le Gentil, Paris, France, Cassini, Venus, India GO, Astronomical Society of Pacific
-	The 1987 A.S.P. Awards	2 1988	Mars, Meteorite, Earth, Antarctica
-	Meteorites and Mars	3 1988	A Midsummer Night's Dream, Sumantra, Babylon, Batak
Hostetter, H. Clyde	The Days of the Scorpion	3 1988	GO, earthquake, Whittier-Eisinore
-	The First Stirrings of October	3 1988	Barnard, belief, Herschel, Ranyard, interstellar material, dust, dark matter
Verschuur, Gerrit L.	Barnard's Dilemma	4 1988	Delta Cephei, variable, star, Henry Draper, Goodricke
Nagy, T. A.	The First Light Curve for Delta Cephei	4 1988	Nostradamus, France, astrology, pseudoscience, earthquake
Wynne, D. A.	Nostradamus and the Doom of May	5 1988	Astrophysics, Eddington, energy, thermodynamics, gravity, time, universe, Prigogine, Heisenberg
Mosley, John	Time and the Universe	5 1988	Paris, France, Babylon, Mul-Apin, zodiac, SB#25, Summer solstice
Gribbin, John	The Summer Solstice Festival: June 22, 1203 B.C.	5 1988	primordial, Nucleosynthesis, Universe, stellar, General Relativity, time, star, hydrogen, helium, Deuterium, Galaxy
Tuman, V. S.	Primordial Nucleosynthesis: Gateway to the Early Universe	6 1988	
Kawano, Lawrence	Certified Immortality or The World is Waiting for the Lillanrise	6 1988	pseudo, science, Hoax, star naming, Immortality
Carlton, Lillan E.	Making More Out of the Moon (Part 2 of 3)	6 1988	Moon, observe, cycle, period, orbit, Earth
Keen, Roger	The Case of the Crazy Quasars	7 1988	Quasar, Kitt Peak, Caltech, Palomar, Schmidt, radio, telescope
Irwin, John B.	Celestial Billboards	7 1988	GO, Billboards
-	An Icon in the Landscape	7 1988	GO

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Mosley, John	Born Under Ophiuchus and Ignored by the Horoscopes: A Modern Dilemma	7 1988	astrology, constellation, Ophiuchus, zodiac, precession, pseudoscience
Bailyn, Charles D.	The Amazing Eleven-Minute Binary	8 1988	binary, star, globular clusters, x-ray, neutron star, white dwarf
Cook, Anthony	Mars: Riding High in the Midnight Sky	8 1988	Mars, observe, closest approach
Keen, Robert	Catch a Falling Star	8 1988	meteor shower, Perseid, observe
-	On the Firing Line	8 1988	Booster, shuttle, Challenger
-	The 1988 Winners	9 1988	GO
Mackowski, Maura J.	Lifeboat! The Crew Emergency Rescue Vehicle	9 1988	Shuttle, Rescue, vehicle, Moses, Health Maintenance Facility, CERV
Somers, James	How I Wonder Where You Are	9 1988	observe, city, light pollution, telescope
Bridges, Nathan	The Moons of Mars: History, Discovery and Exploration	10 1988	Mars, Moon, Phobos, Hall, Deimos, Mariner, Soviet Union, exploration
Unruh, W. J. Shiloh	Town of Telescopes	10 1988	Santa Clara, telescope, Lick, Hamilton
Landis, Rob	Planet of the Lost Arc	11 1988	Neptune, Adams, Uranus, Lassell, Challis, Nereid, Harris
Krupp, E. C.	Moon Maids	12 1988	Moon, Greece, Egypt, Indian, Aztec, Television, movie
Ponting, Margaret R. Curtis, Ronald G.	Moonwatching at Callanish 1987	12 1988	Moon, observe, Callanish, Scotland, Stonehenge
Byrd, Deborah	The Search for Brown Dwarfs	1 1989	Brown Dwarf, Jupiter, fusion, Hubble Space Telescope
Krupp, E. C.	Brown Dwarf Found	1 1989	Brown dwarf, HD 114762
-	Adler Planetarium Director Wins A.S.P. Prize	1 1989	GO
Wearner, Robert G.	Dr. Catherine Pilachowski: Kitt Peak Astronomer	1 1989	GO
Irwin, John B.	The Case of the Demon's Diameter	2 1989	galaxy, light, Goodricke, Herschel, Russell, Shapley, Algol
Baker, William A. Dreher, Diane E. Chung, Putien Selene	Portraits in the Sky: Helen Keller and Annie Sullivan & Sirius A and Sirius B	2 1989	companion, Pup, Sirius
Rubin, Alan E.	Stars of Shakespeare	2 1989	Shakespeare
Krupp, E. C.	Heat Sources in the Solar System	3 1989	Heat, Solar System, Sun, fusion, meteor, asteroid, tidal forces, tides, Moon, Jupiter
Ayres, Annabel	Hyderabad's Birla Planetarium Celebrates the Winter Solstice in India with an "International Seminar on Ancient Astronomies"	3 1989	GO, ancient astronomy, India
	Particle Physics and Cosmology: Getting to the	4 1989	Grand Unified Theory, particle, physics,

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Sidharth, B. G.	"GUTs" of the Matter The Unmythical Puranas: A Study in Reverse Symbolism	4 1989	cosmology Hindu, India, Puranas, Rig Veda
Krupp, E. C.	Mars Invades Griffith Observatory	5 1989	Mars, GO, The War of the Worlds, Wells, science fiction, alien
Gonzaga, Shireen P.	Deep in the Heart of Texas: A Look at the McDonald Observatory	5 1989	Texas, McDonald Observatory, telescope, Mt. Locke
-	A Century of Astronomy Celebrated by the Astronomical Society of the Pacific	5 1989	GO, Astronomical Society of the Pacific
Harrington, Philip	The Story of Stellafane	6 1989	Vermont, convention, Porter, Scientific America, Stellafane National Radio
Whitney, Colleen	Astronomical Accident	6 1989	Astronomy Observatory, West Virginia, accident
Whitney, Colleen	Milton's Disastrous Eclipse Twenty Years After: Navigating	6 1989	Religion, English, Milton, eclipse, Bible, Paradise
Loudon, Jim	the Seas of the Moon	7 1989	Apollo, Moon, seas, Saturn, Kennedy
Tenn, Joseph S.	The Rise and Fall of Astrophotography	8 1989	Astrophotography, plate, telescope, CCD
Aldrin, Buzz	We Came in Peace: A Tribute to Apollo 11	8 1989	Moon, Apollo, Aldrin
-	All Trails Head to Griffith Observatory	8 1989	GO
-	The 1989 Winners	9 1989	GO
Irwin, John	The Case of the Clouded Crystal Ball	9 1989	future, crystal ball, telescope, sky survey, Palomar, brown dwarf
-	Griffith Observatory Parades in Pasadena	9 1989	GO
Van Dyk, Schuyler D.	Supernovae: Catastrophes in the Sky	10 1989	supernovae, Type, Hubble Parsons, Earl, Leviathan, telescope
Ryden, Barbara	The Earl and the Leviathan	11 1989	Indians, Egypt, sun, solar, sunburst
Krupp, E. C.	Rayed Disks	12 1989	Germany, Sun, Solar, Greece, Indian, Mexico
Krupp, E. C.	Facing the Sun	1 1990	
Krupp, E. C.	Making Waves with the Lord of the Sea	1 1990	Neptune, Voyager
Peterson, Charles J.	The United States Navy Corps of Professors of Mathematics	2 1990	Navy, United States, Newcomb, Academy
Krupp, E. C.	Neptune's Ovals and Torcs	2 1990	Neptune, Voyager, atmosphere, clouds, ring
Wasiluk, Elizabeth S.	Adventures of a Participant in the 1988 Radio Astronomy Summer Institute	3 1990	National Radio Astronomy Observatory, West Virginia, Radio Astronomy Summer Institute
Krupp, E. C.	More Fish in Neptune's Sea	3 1990	Neptune, Triton, Voyager, moon
Wearner, Robert G.	Chinese Astronomers	4 1990	China, Han, Shang, Halley

<u>author</u>	<u>title</u>	<u>mo year</u>	<u>key words</u>
Mackowski, Maura J.	Life or Death: Planetary Geology's Clues to the Origin of Life	5 1990	life, geology, tectonic, hydrogen, oxygen, Mars, Earth, Moon, Venus
Menke, David H.	The Donahue Meteorite	5 1990	Connecticut, Donahue, Meteorite
Mosley, John	Charting the Heavens	6 1990	star chart, heaven, England, Palomar, Hubble Space Telescope
Keen, Robert	Moonlight and Shadows	6 1990	Moon, eclipse, Sun, Earth, Solar
Peterson, Charles J.	A Very Brief Biography and Popular Account of the Unparalleled T. J. J. See Preview of the 11 July 1991	7 1990	biography, Missouri, Lowell, University of Chicago, Naval Observatory
Mosley, John	Solar Eclipse	7 1990	Solar, Sun, Eclipse, GO
Winkler, Lewis	Legal Aspects of Astronomy	8 1990	law, legal, Cold War, Soviet Union, United States, Hubble Space Telescope, Viking
Hoag, A.	Aristarchos Revisited	8 1990	Aristarchos, Greece
-	The 1990 Winners	9 1990	GO
Mackowski, Maura J.	Salad Bars in Space: The Controlled Ecological Life Support System (CELSS)	9 1990	space traveler, life, future, food, Controlled Ecological Life Support System
Krupp, E. C.	The Great Attractor	9 1990	Centaurus, supercluster, Hydra-Centaurus, Great Attractor
Fillmore, Mary Rankin, Joanna	The Quest for Exotic Pulsars	10 1990	pulsar, supernovae, Backer, Bell, Hewish, rotation
Krupp, E. C.	Partial Solar Eclipse Makes it to Class on Time	10 1990	Solar, Sun, eclipse, Moon, GO, partial
Rhode, Katherine L.	Probing the Unseen Universe with UIT and Astro	11 1990	NASA, Astro, Ultraviolet Imaging Telescope, Shuttle, quasars
Russell, John A.	Time Cycles in Paradise: The Balinese Calendar	12 1990	Bali, Honduras, Venus, Mead
-	The Griffith Observer Cumulative Index 1981-1990 Vols. 45-54	12 1990	GO, index
Krupp, E. C.	Seven Sisters	1 1991	seven sisters, constellation, Pleiades, Taurus the Bull, China, Japan, Siberia, Mesopotamia, Indians
Gribbin, John	How Darwin Discovered Relativity	2 1991	Darwin, relativity, Sun, temperature, geology, Buffon, Helmholtz
Mosley, John	Earth's Core Revealed in Observatory Basement	2 1991	GO, Bonestell
Herberger, Charles F.	The Labyrinth as an Emblem of the Womb, the Tomb, and Lunisolar Cyclical Time	3 1991	Greece, Sun, Moon, Etruscan
-	Lights Out: A Special Observatory Lecture Series on Eclipses of the Sun and Moon	3 1991	GO
Mosley, John	In the Moon's Shadow	4 1991	Sun, eclipse, solar, GO
So, Patrick	Targets of an Eclipse Hunter	4 1991	eclipse, Moon, Sun, GO

<u>author</u>	<u>title</u>	<u>mo year</u>	<u>key words</u>
Cook, Anthony	How to Watch and Photograph a Solar Eclipse	4 1991	Sun, Moon, filter, telescope, photography, solar, eclipse, GO
Landis, Rob	Jupiter's Ethereal Rings	5 1991	Voyager, Pioneer, satellite, Galileo, Jupiter, rings communication, comet, asteroid, supernovae, The Atlantic Cable, Commission 6,
Sperling, Norman	The Central Bureau for Astronomical Telegrams: A Case Study in Astronomical Internationalism	6 1991	The Central Bureau for Astronomical Telegrams constellation, Greece, Lion, Bull, Taurus
Berube, Conrad A.	The Bee-Riddled Carcass	7 1991	GO
-	A Berlin Forest in Griffith Park	7 1991	GO
Miles, Kathy A.	"Not to Have Lived in Vain"	8 1991	Brahe, Vedal
Mood, John Mood, Stephanie	Totalis Eclipsitis	8 1991	Great Tropical Trans- Pacific Eclipse, Sun, Solar, Moon
-	The 1991 Winners	9 1991	GO
Allen, David	My Mother Will Never Read This	9 1991	Infrared, eyesight, Venus
Mosley, John	Soviet Cosmonaut Demonstrates Perestroika	9 1991	GO, Grechko, Soviet Union, Russia, Perestroika
Irwin, John B.	The Case of the Annihilating Asteroid	10 1991	comet, Earth, Tunguska, asteroid
Lankford, John	Funding American Astronomy: An Overview	10 1991	politics, money, funding
Krupp, E. C.	The Great Plumed Tropical Trans-Pacific Eclipse of 1991	11 1991	Sun, Moon, cruise, GO, Solar, eclipse
Mosley, John	The Sun Sets Twice on January 4: Los Angeles's Sunset Solar Eclipse	12 1991	GO, annular, Sun, Eclipse, Moon
So, Patrick	Eclipsed at Sunset	12 1991	GO, annular, Ring of Fire, Sun, Moon, Solar, eclipse
Cook, Anthony	How and Where to Watch The Sunset Solar Eclipse	12 1991	Sun, annular, eclipse, photography, Moon, Solar
Brunello, Christine M.	The War of the Rings	1 1992	Saturn, Galileo, Huygens, Rings
Hollins, J. M.	Wrexie	1 1992	love, Lowell, Leonard, GO
-	Allan Sandage Awarded Crafoord Prize	1 1992	GO
Young, Arthur	The Fallacy of Scale	2 1992	Einstein, quantum mechanic, Grand Unified Theory, Big Bang, scale
Elson, Rebecca A. W.	The Clouds of Magellan: Our Neighbors in Space	2 1992	Magellan, galaxy, Columbus, clouds
Witt-Miller, Harriet	What the Spider Knows: A New Look at an Old Astronomy Paradise Loss: Eclipsed in Hawaii	3 1992	fractal, Copernicus, cosmology, Polynesia
Dryer, Ivan		3 1992	Hawaii, viewing, Sun, solar, Moon, eclipse
Davies, Paul			dark matter, Einstein, quantum mechanics, photon, black hole, dwarf, neutron, wormhole
Gribbin, John	Weighing Up Empty Space	4 1992	
	The Quantum Conspiracy: How The Quantum Physicists Hijacked Reality When Nobody Was Looking	4 1992	Quantum physicists, quantum mechanics, Einstein, conspiracy, Bohm, theory

<u>author</u>	<u>title</u>	<u>mo year</u>	<u>key words</u>
Landis, Rob	Pluto: Past, Present, and Future	5 1992	Pluto, Planet X, Herschel, Charon, Hubble Space Telescope, spacecraft
Krupp, E. C.	Annulled by Clouds	6 1992	GO, Sun, solar, eclipse, Moon, Ring of Fire
Irwin, John B.	The Case of the Southern Skies	7 1992	Chile, Milky Way, Magellan, photoelectric, Radcliffe, South Africa
Clocchiatti, Alejandro	The Mysterious Darkness of Night: The Story of Olbers's Paradox	8 1992	Greece, Olbers, Halley, Einstein, Hubble, Big Bang, dark matter
Bertsch, Hans	The Eclipse and the Pueblo	8 1992	Indian, Native American, Mexico, cruise, Sun, Moon, Solar
Pinto, Fabrizio	Giant's Talk	9 1992	Kepler, Galileo, planetary motion
-	Back to Berlin from Griffith Observatory	9 1992	GO
-	The 1992 Winners	10 1992	GO
Peterson, Carolyn Collins	Magellan at Venus	10 1992	NASA, radar, Mariner, Pioneer, Venus, Magellan
Reed, George	Check it Out! Who Was Astronomy's Most Influential Astronomer	11 1992	Delphic Oracle, Copernicus, Newton, Galileo, Hipparchus, Brahe, Halley
Harris, Joel K.	Totality at Dawn: The Uruguayan Solar Eclipse on 30 June 1992	11 1992	Sun, Moon, Uruguay, viewing, eclipse, Solar
Krupp, E. C.	Dark Bunting for the Moon on Flag Day	11 1992	GO, eclipse, Moon
Krupp, E. C.	Phases of Venus	12 1992	Venus, Greece, Egypt, Mesopotamia, Hittite, Indian
Carolin, Miriam	Science, Religion, and Island Universes: The Views of Heber Doust Curtis	1 1993	infinite, multiple universes, Religion, island universe, Curtis
Hockey, Thomas A.	A Brief History of the Planetary Telescope: Early Refractors (Part 1 of 3)	1 1993	history, Kepler, telescope, refractor
Gribbin, John	Stardust Memories	2 1993	supernovae
Hockey, Thomas A.	Brief History of Planetary Telescope: Reflectors and Achromatics (Part 2 of 3)	2 1993	history, Newton, Herschel, telescope, reflector, achromatics
Wearner, Robert G.	Serendipity, luck, chance, history, Newton, Galileo, Herschel, Jansky, Bell	3 1993	Astronomy and Serendipity
Hockey, Thomas A.	A Brief History of the Planetary Telescope: The Nineteenth Century (Part 3 of 3)	3 1993	history, telescope, nineteenth century
Reed, George	We have met the Aliens and...	4 1993	life, science fiction, 2001, Star Wars, Alien, E. T., aliens
Young, Arthur	You Light Up My Life Zone	5 1993	aliens, habitable planet, intelligence, life, zone
Merlin, Peter W.	Return to the Red Planet	5 1993	Mars Observer, spacecraft

<u>author</u>	<u>title</u>	<u>mo year</u>	<u>key words</u>
Thurston, Hugh Worthen, Thomas D.	The Length of the Year	6 1993	ancient China, Greece, Chinese
Winter, Frank H.	Eclipse by Semester	6 1993	sun, solar, moon, eclipse
	First Armada to Halley	7 1993	balloon, history, comet, Halley Honduras, Mexico, Zapotec, Monte Alban
Meluzin, Sylvia Jayawardhana, Ray	The Chamber of the Zenith Sun	7 1993	Big Bang, galaxy, Great Wall, Dark Matter
Krupp, E. C.	The Quest for a Boring Universe	8 1993	Moon, eclipse, GO, Sundown
	Emerging at Sundown	8 1993	radio telescope, Australia, galaxy, PTI, IRAS, galaxy
Allen, David	The Dark Tower	9 1993	GO
-	The 1993 Winners	10 1993	Apollo, Cold War, Soviet Union, N1, Moon, United States, Russia, Space Race
Landis, Rob	A Shadowy Trace of the Space Race	10 1993	Solar storms, manned exploration, solar flare, sun, proton storm, magnetic field
Rust, David M.	Solar Storms and Manned Exploration of Deep Space	11 1993	
Russell, John A.	Christopher Columbus: Insight Versus Eyesight	11 1993	Columbus, Navigation, Polaris Milky Way, Greece, Herschel, Galileo, Wright, Aztec, Chinese Newton, Cassini, Jupiter, pulsar, Michell, Laplace, Black Hole
Krupp, E. C.	Spilled Milk	12 1993	
Gribbin, John	The Man Who Invented Black Holes	1 1994	
	Atlas Boosts Environmental Satellite into Orbit: Contact with Spacecraft Lost After Two Weeks	1 1994	Atlas, NOAA-13, Atlas, Cold War, Environment Telescope, history, Lippershey, Galileo, Huygens, Cassini, Newton, Bradley, Hadley supernovae, Sirius, astrophysics, white dwarfs, black hole
Merlin, Peter W.			
Benensohn, Jeffrey S.	The First Telescopes and Their Impact	2 1994	Yucatan, dinosaurs, extinct, comet, meteoroid, Oort Cloud, Swift-Tuttle, NASA, asteroid Titan, NOAA, NORAD,
Keen, Roger	A Sirius Problem	2 1994	Landsat 6, NASA eclipse, Sun, Moon, Solar, Sunrise, GO chaos, quantum physics, fractal, Big Bang, Jung, archetype, Copernicus
Goldsmith, Donald	When Asteroids Strike the Earth	3 1994	
Merlin, Peter W.	Landsat 6: Lost in Space	3 1994	
Krupp, E. C.	The Partial Sunrise of 21 May 1993	3 1994	
	Searching for New Centers: The Legacy of Copernicus	4 1994	
Witt-Miller, Harriet	Dark Matter Attracts National Medal of Science	4 1994	GO
-	George Lovi: 1939-1993	4 1994	GO
Krupp, E. C.	The Secret History of Griffith Observatory: A Belated Acknowledgment	5 1994	GO, Porter

<u>author</u>	<u>title</u>	<u>mo year</u>	<u>key words</u>
Allen, David	Organically Grown	6 1994	comet, Halley's Comet, dust, life, organic, pseudoscience
-	Mayor of Los Angeles Inspects His Cosmic Jurisdiction	6 1994	GO
Krupp, E. C.	Sail on Silver Moon	7 1994	Apollo 11, Armstrong, Aldrin, Moon
Cook, Anthony	Countdown to Impact	7 1994	comet Shoemaker-Levi 9, Jupiter
-	Billboards by Moonlight	7 1994	GO
McLean, Ian S.	New Infrared Images Probe Universe	8 1994	Hubble Space Telescope, redshift, Infrared, galaxy, Big Bang, size
Mosley, John	New California Meteorite Finds a Home at Griffith Observatory	8 1994	GO, meteorite, exhibit
Krupp, E. C.	Twinkies, Cream-filled Cupcakes, and the Cosmos: Clifford W. Holmes 1929- 1993	8 1994	GO
McCann, Guy W.	Sir John Herschel and the Birth of Celestial Photography	9 1994	cartography, nebulae, Herschel, photography
Merlin, Peter W.	Mobilizing for an International Station in Space	9 1994	Soviet Union, United States, Cold War, Space Station, International
-	The 1994 Winners	10 1994	GO
Pesavento, Peter	Korolev: The Hidden Years	10 1994	Soviet Union, Sputnik, spacecraft design, Korolev
Hollis, J. M.	Hubble Space Telescope, astrophysics, NASA, space shuttle	10 1994	
	If It's Broke, Don't Fix It	10 1994	
	Six Decades with Six Astronomers on the Lawn of Griffith Observatory	11 1994	GO, exhibit
Cook, Anthony		11 1994	
Schaefer, Bradley E.	The Hobbit and Durin's Day	11 1994	Tolken, Foster, science fiction, Hobbit, Durin's Day
Mosley, John	Meteorites Linked to Asteroid Vesta	11 1994	GO, meteorite, Vesta
Krupp, E. C.	Cosmos on Parade: A Year, More-or-less, of Sky Jinks and Earth Tremors: Eclipses and Earthquakes (Part 1 of 2)	12 1994	GO, earthquake, Sun, eclipse, Moon, Solar, Northridge
-	John Mosley Saluted for Service	12 1994	GO
Krupp, E. C.	Cosmos on Parade: A year, More or less, of Sky Jinks and Earth Tremors (Part 2 of 2)	1 1995	Comet Shoemaker-Levi, pseudoscience, earthquake, Northridge
Colwell, Joshua E.	Catastrophes in the Outer Solar System: The Forge of New Moons and Rings	2 1995	comet, moons, rings, outer solar system, Neptune, Saturn, Uranus
Penn, Mathew J.	Probing the Depths of Sunspots	3 1995	sunspot, sun, observe
Gribbin, John	Puzzling Pulsars	3 1995	radio, pulsar
Green, Paul J.	Dilemma of the Devious Dwarfs	4 1995	dark matter, binary, dwarf
Fentress, Stephen S.	Scenes from the Life Of A Great Picture	4 1995	Earth, culture, photo
Eberts, Mike	The Little-Known Early History of the Griffith Observatory	5 1995	GO

<u>author</u>	<u>title</u>	<u>mo year</u>	<u>key words</u>
Ryan, Sean G.	Lightweight Atoms Prompt		star birth, supernovae, metal,
Osterbrock, Donald E.	Heavyweight Response	6 1995	atoms, lightweight
Wheeler, John	The Two Stellar Populations	6 1995	Walter Baade, star birth, star population
Craig McNierney, Michael	Black Hole X-Ray Novae: A New View into the Abyss	7 1995	gamma rays, supernovae, Black Hole, X-Ray
	Refuting Roman Astrology	7 1995	pseudoscience, zodiac, astrology, Rome
Steele, Suzanne	Lost in Cyberspace: Astronomy and the Internet	8 1995	World Wide Web, resource, Cyberspace, Internet
-	FOTO Travels the Globe for Astronomy	8 1995	GO
	Breathless: The South American High Altitude Toothbrush; Total Solar Eclipse of 3 November 1994	9 1995	Chile, sun, solar, eclipse, Moon
Krupp, E. C.	The 1995 Winners	10 1995	GO
	Inflation for Beginners	10 1995	Big Bang, quantum mechanics, grand unified theory, inflation
Gribbin, John	Gamma-ray Bursts: Act Locally, Originate Globally	11 1995	pulsar, neutron star, gamma- ray
Johnson, K. Terrell	Brahma's Day: The Great Cosmic Cycle and the Age of the Rig Veda	11 1995	Hindu, Puranas, zodiac, astrology, Brahma's Day
Sidharth, B. G.	Musica Mundana: The Heavenly Harmony	12 1995	Greece, Rome, history, music
Grice, Noreen	Converging Rings: The Path to Annular Eclipse at Cahokia's Woodhenge	12 1995	Native American, Illini, prehistory, rings, eclipse, solar, sun, Moon, Woodhenge
Bertsch, Hans	Whatever Happened to the Tenth Planet?	1 1996	asteroid belt, Kuiper Belt, extra solar planet, planet, Planet X
Colwell, Joshua E.	Partially Eclipsed: A Personal Journal to Catch the Sun	1 1996	Puerto Rico, computer, eclipse, Sun, Moon, Solar
Leseman, Curtis	Seventy-Five Years of Avoidance of Evil in the Department of Recreation and Parks	1 1996	GO
-	New FOTO Board Assembles for Griffith Observatory	1 1996	GO
-	How old is the Universe?	2 1996	Hubble Constant, Virgo Cluster
Goldsmith, Donald	Grace Under Pressure: The Diamond of the Skies	2 1996	GO, Anniversary
Krupp, E. C.	The Sacred Sky of the Navajo and Pueblo	3 1996	Indian, calendar, belief, Navajo, Pueblo
Green, Matthew	Missing Bob	3 1996	Robert J. Chambers
Krupp, E. C.	Rescued at Sea: The Deepavali Triumph-of-Light-over- Darkness; Total Solar Eclipse of 1995	4 1996	cruise, South China Sea, Cambodia, Thailand, eclipse, solar, Sun
Krupp, E. C.	"Eppur Si Muove"-by Blind faith	5 1996	Galileo, Roemer, Bradley,
Reed, George	FOTO on the Trail of Ancient	5 1996	Foucault, Henderson, Herschel GO

<u>author</u>	<u>title</u>	<u>mo year</u>	<u>key words</u>
	Maya Astronomy		
Deneroff, Vickie	The Odyssey of Ulysses in the Solar Sea	6 1996	NASA, Jupiter, Sun, Solar, Ulysses
Krupp, E. C.	Hi-Yo, Hyakutake	6 1996	Comet Hyakutake, GO
Miles, Kathy A.	Seeing Further: The Legacy of Robert Hooke	7 1996	England, Newton, Hooke
Hiscock, Philip	The True Blue Moon	7 1996	folklore, Moon
	If He Had Lived: The Promising but Brief Career of Jeremiah Horrox		
Jackson, Francine	Horrox	8 1996	England, Horrox
Krupp, E. C.	A Cosmos in the Grains of Sand	8 1996	Gyuto Tantric University, monk, cosmos, GO
-	Space Ghost Haunts Griffith Observatory	8 1996	GO
	Collisions, Cannibals, Starbursts, & Black Holes: (What's Going on in the Galaxies?)		
Peterson, Carolyn Collins		9 1996	Hubble Space Telescope, starbursts, black holes, supernovae
			Copernicus, Tycho, Kepler, Galileo, Newton, Halley, Herschel, Lick, Lowell, Brashear, bury
Reed, George	Final Resting Places	10 1996	Religion, Galileo, cosmology, Einstein, Big Bang,
Melbourne, Jason	Cosmology: Storytelling on the Grand Scale	11 1996	
-	G. Bruce Blair Medal Awarded to Griffith Observatory Director	11 1996	GO, Krupp
	The Top of the Sky, the Center of the World, and the Road Between		North Star, Polaris, China, Hindu, Egypt, Aztec, Indian, Judaism
Krupp, E. C.		12 1996	
Krupp, E. C.	Climbing the Cosmic Axis	1 1997	North Star, Polaris, Indian, Aztec, Hittite
			Kepler, Venus, Mercury, Sun, Gassendi, Halley, Maximilian Hell, Newcomb, transit
Jackson, Francine	In Transit	1 1997	
	Converging Trajectories: Black Holes, Quasars, and Where They Meet		supernovae, black hole, quasars
Grice, Noreen A.		2 1997	
	William J. Kaufmann, III: 1942-1994		
Krupp, E. C.	Did Halley Slay the Calamitous Comet Dragon?: Ideas about Close-approaching Comets from Whiston to Lalande	2 1997	GO
Chapin, Seymour L.		3 1997	Jupiter, Venus, Dionis, Halley, Whiston, Lalande, comet
	Hailing A Hale and Hearty Hale-Bopp		
Cook, Anthony		3 1997	Hyakutake, Kohoutek, photography, Comet Hale-Bopp
Woldenberg, Susan	Dr. William Valentine and the Transit of Venus	4 1997	Navy, Army, Campbell Town, Venus, Valentine
	STS-34: Character Building and the Shuttle Diplomat	4 1997	Galileo, NASA, Space Shuttle, STS-34
Leseman, Curtis		4 1997	GO
-	FOTO Gives Constantinople	4 1997	Egypt, Copernicus, Kepler,
Pinto, Fabrizio	"I Am the Prince of Eternity"	5 1997	Plato, hieroglyphic
-	The 1997 Boeing Winners	6 1997	GO

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Christianson, Gale E.	The Night the Universe Changed Forever More Fine Detail from Mount Wilson	6 1997	History, cosmology, Hubble, galaxy
Sandage, Allan R.	Friends of the Observatory	6 1997	telescope, interferometer
—	Close in on Winter	6 1997	GO pseudoscience, Drake, abduction, Mars, Venus, Jupiter, bacteria, Aliens
Rubin, Alan	Paucity of Aliens Turkish Delight: The Partial Solar Eclipse of 12 October 1996	7 1997	Turkey, Sun, Moon, Solar, Eclipse
Poitevin, Patrick	Putting Griffith into the Park	7 1997	GO
-	Astronomy in the Twenty-first Century: The Development of Very Large Telescopes	7 1997	telescope, Palomar, 21, twenty-first century, Keck, reflecting
Mclean, Ian S.	The Eclipsed Moon Plays the Same Old Tune	8 1997	GO, eclipse, Moon, Hale- Bopp virus, intelligence, alien, computer, extraterrestrial, contact, movie, media, Roswell, machine, 2001
Krupp, E. C.	Viral Symbiosis: A No-Brainer	8 1997	Lascaux, Taurus, cave, bull, France, constellation, Pleiades
Reed, George	Taurus in Lascaux	9 1997	Pyramid Lake, observe, telescope, amateur, Hubble
Edge, Frank	High Performance from Hale-Bopp	10 1997	Space Telescope, image Hale-Bopp, GO, observe, telescope, amateur, Heaven's Gate, Bell, media
Cook, Anthony	Over the Top with Hale-Bopp	10 1997	Mongolia, eclipse, solar, total, China, observe
Krupp, E. C.	Snowblind: The Long Underwear Altaic Total Solar Eclipse of 9 March 1997	11 1997	asteroid, Earth, impact, Mexico, dinosaur, effect
Krupp, E. C.	Red Skies at Night	12 1997	GO, index
Tidey, Steve	Index to Volume 61, 1997	12 1997	woman, science, Prussia, biography, war, Herschel, Caroline
-	In Her Brother's Shadow: The Story of Caroline Herschel	1 1998	Hubble Space Telescope, Pathfinder, Mars, Surveyor, photo
Rall, Gloria D.	Mobile on Mars	1 1998	neutrino, detect, Hercules, 1987A, supernova, nucleosynthesis, WIMP, Sudbery, observatory
Krupp, E. C.	Unveiling Neutrino Astronomy	2 1998	Halley, comet, GO
Shire, Philip R.	A Comet in the Stream	2 1998	media, products, influence, market, candy, Mars, comet, advertise
-	A Shopper's Guide to Astronomy	3 1998	GO, FOTO, photo
Grice, Noreen	FOTO Goes National	3 1998	
-			

<u>author</u>	<u>title</u>	<u>mo year</u>	<u>key words</u>
Colwell, Joshua E.	Much Ado About Next to Nothing	4 1998	comet, asteroid, collision, interstellar, dust, Poynting-Robertson, Cosmic Background Explorer, Saturn, ring, Jupiter, halo
-	A Nod as Good as a Wink	4 1998	Near earth asteroid
-	FOTO By the Bay	4 1998	rendezvous, observe, GO GO, FOTO, photo dust, comet, asteroid, belt, particles, solar system, Saturn, ring, orbit, Jupiter, halo, Tutu
Cowell, Joshua E.	Much Ado About Next to Nothing	4 1998	Near earth asteroid rendezvous, FOTO, GO
-	A Nod as Good as a Wink	4 1998	Halley, transit, Mercury, Venus, sun, Hell, Jesuit, Vienna Observatory,
-	FOTO By The Bay	4 1998	Proctor, Newcomb, Sarton GO, Boeing
Jackson, Francine	The Trials of Hell or How a Jesuit Priest Regained his Reputation	5 1998	Milky Way, diameter, Kapteyn, Oort, hydrogen, dark matter, ionized, Sunyaev, cold, outer, sun
-	The 1998 Boeing Winners	6 1998	X-ray, Roentgen, Crookes, tube, glow, atmosphere, emission, Scorpius, HEAO, High
Lazio, T. Joseph W.	How Big is the Milky Way?	6 1998	Energy Astrophysics Observatories, satellite, telescope, AXAF, Advanced X-ray Astrophysics Facility
Grice, Noreen	X-Rays: From Earth to Orbit	7 1998	comet, FOTO, Halley, Giacobini-Zinner, Stardust spacecraft, Wild-2
Knack, Kara	Star Dust	7 1998	Mars, War of the Worlds, Mars A FOTO, SOHO
Rubin, Alan E.	The Search for Life on Mars: Oasis or Mirage	8 1998	spacecraft, Voyager, earthquake
Knack, Kara	World-class Vulgarly	8 1998	total solar eclipse, February 26, 1998, Caribbean
Krupp, E.C.	Pirating the Sun	9 1998	FOTO anniversary
Knack, Kara	Twenty Years After	9 1998	Captain James Cook, H.M. Bark Endeavour, Transit of Venus, Hawaii, New Zealand
Jackson, Francine	The Voyage of the Endeavour... the First One	10 1998	Hellenikon pyramids, Athens, Gr archaeoastronomy
Liritzis, Ioannis	Bronze Age Greek Pyramids and Orion's Belt	10 1998	asteroid, minor planet (6742) Biandepei =
Krupp, E.C.	Bian Depei and Li Yuan Acquire Celestial Status	10 1998	1994 GR
Knack, Kara	Scaling the Heights for Balance	10 1998	zodiac, autumnal equinox, Libra the scales

<u>author</u>	<u>title</u>	<u>mo year</u>	<u>key words</u>
Tidey, Steve	The Sun—a Life	11 1998	Milky Way, sun, sunspots, prominence, white dwarf, protoplanetary nebula, SOHO spacecraft
Knack, Kara	Caught in the Storm	11 1998	Leonids, meteor shower, comet
Renshaw, Steven and Ihara, Saori	Tani Jinzan and a Leonid Conflagration: A Two-fold Tragedy of Observation and "Theory" in Edo-era Japan	11 1998	Tempel- Tuttle
Luna, Michael	Beyond the Sky: That Which Others Saw from Afar	12 1998	Japan, Leonids, meteor shower
Lehrer, Eli	Curious Writings: Palimpsests on Callisto and Ganymede	1 1999	space exploration, human spaceflight, Mercury, Vostok, Gemini, Apollo, Space Shuttle, Mars Pathfinder
Concelice, Christopher J.	Early Chicago Astronomy 1862-1895	1 1999	Jupiter, Galilean satellites, Ganymede, Europa, Callisto, Io, Voyager
Mosley, John	Star Tales	2 1999	Alvan Clark, Sherburne W. Burnham, George Washington Hough, Dearborn Observatory, Yerkes Observatory
Krupp, E.C.	New Books	3 1999	Planetarium show, script, constellations, Big Dipper, Perseus & Andromeda, southern sky, Zodiac, Myths
Knack, Kara	Visions of Venus	3 1999	Bowls
Herberger, Charles F.	Diagonal and Framed. Part 1	4 1999	Book reviews,
Krupp, E.C.	New Books	4 1999	**Seismosaurus-The Earth Shaker'-David Gillette
			**Star-Hopping for Backyard Astronomers'- Alan M. MacRobert
			**Chasing the Shadow'- Joel Harris and Richard Talcott
			*Star-Hopping: Your Visa to Viewing the Universe' - Robert Garfinkle
			**Binary Stars: A Pictorial Atlas'- Dirk Terrell
			**Extraterrestrials- A Field for Earthlings'- Terence Dickinson
			Pythagoras, Sumerians, Galileo, Venus
			Archaeoastronomy, Quincunx, solar, symbol, Ancient Mayan, Olmec, Central America, Mexico, Greek, Ireland, and London
			Book reviews,
			*The Astronomer's Sourcebook: The Complete Guide to Astronomical Equipment-Bob Gibson
			*Astronomy Through Space and Time- Sune Engelbrekson

<u>author</u>	<u>title</u>	<u>mo</u>	<u>year</u>	<u>key words</u>
				*A Practical Guide To CCD Astronomy- Pactrick Martinez and Alain Klotz
				*Beginner's Guide to Amature Astronomy- David J. Eicher
				*The Hubble Wars- Eric Chaisson
				*The Perfect Machine: Building the Palomar Telescope- Ronald Florence
Knack, Kara	Spring Thing	4	1999	Daylight Saving Time, FOTO
Herberger, Charles F.	Diagonal and Framed. Part 2	5	1999	Archaeoastronomy, Quincunx, solar, symbol
Simbeck, Rob	A Little Group of People	5	1999	Comet Hale-Bopp
Knack, Kara	Monumental Astronomers	5	1999	Astronomers monument, Griffith Observatory
Krupp, E.C.	The 1999 Boeing Winners	6	1999	Boeing writing contest
				Astrobiology, life on earth, Mars, Mars meteorite, extraterrestrial life, other planets
Gaidos, Eric J.	Seeing a Biological Universe	6	1999	Jupiter & Venus conjunction, February 23, 1999
Krupp, E.C.	Tag Team	6	1999	
Knack, Kara	Moon Bound	6	1999	Moon, lunar exploration, Apollo Apollo 11, Buzz Aldrin, Planetarium show, script
Mosley, John	We Came in Peace	7	1999	Books, information technology, Griffith Observatory renovation
Knack, Kara	Information Please	7	1999	Tycho Brahe, Galileo, Kepler, Copernicus, Newton, Maxwell, Einstein
Melbourne, Jason	Gravity: from Aristotle to Einstein-the History of a Theory	8	1999	Eclipse, Australia, southern sky
Piini, Ernest W.	Outback Annularity	8	1999	
Knack, Kara	Something to Write Home About	8	1999	Eclipse, scale of the Universe
	Chasing the Moon's Shadow: a			Solar eclipse, annular, total, partial, February
Monda, Richard	Totally Awesome Experience	9	1999	Sunspot cycle
Knack, Kara	See Sun Spot	9	1999	
Renshaw, Steven & Ihara, Saori	Stars That Pass in the Night	10	1999	Japanese star lore, Hubble Space Telescope, Physics
Knack, Kara	Unmasking the Universe	10	1999	<i>International Space Station, Salyut 7, "Skylab, Mir, N.A.S.A., European Space" Agency, Unity, Zarya, Zvezda</i>
Witten, Alan J.	The International Space Station: From Dreams to Reality	11	1999	
Olson, Donald W. & Doesscher, Russell L.	California Surprise	11	1999	1833 Leonid Meteor Storm, Captain Joseph R. Walker
				Transit of Mercury, November 15, 1999, Venus, Observing a transit
Cook, Anthony	Rapid Transit	11	1999	

<u>author</u>	<u>title</u>	<u>mo year</u>	<u>key words</u>
Knack, Kara	Star Potential	11 1999	Stars, Milky Way, life cycle of stars
Knack, Kara	Urania's Sheet Music	12 1999	Sheet Music Covers with astronomical themes
Knack, Kara	The Music of the Night	12 1999	The Millennium, Griffith Observatory
---	Index to Volume 63, 1999	12 1999	Index 1999
			The Day the Earth Stood Still, Project Ozma, Frank Drake, Arecibo, Radio telescope, SETI, M13, Tau Ceti, Jocelyn Bell, Pioneer 10 and 11, Voyager, Very Large Array, Aliens
Rubin, Dr Alan E.	The Human Response to First Contact	1 2000	
Knack, Kara	Eyeless and Upward	1 2000	Museum of Cycladic Art
			Life and times of Robert Burnham and William Herschel, Burnham's Celestial Handbook
Reed, Dr. George	Parallel Lives Diverging: Robert Burnham & William Herschel	2 2000	
			Mercury transit, November 15, 1999, from Griffith Observatory
Krupp, Dr. E.C.	Public Transit	2 2000	
Knack, Kara	It's for You	2 2000	Telephones, satellites, internet
			Total Solar Eclipse of 11 August 1999
Krupp, E.C.	Fleecing the Sun: The European Grand Tour and Quest for the Coronal Fleece	3 2000	NASA, New solar systems, extraterrestrial life, Mars, Stardust
Shannon Baker, Alexi	Astrobiology: The Comprehensive Science	4 2000	FOTO. John Ferraro, Lunar Eclipse January 2000
Krupp, E.C.	Cliffhanger	4 2000	Colonel Griffith J. Griffith, 12-inch Zeiss, FOTO
Knack, Kara	Looking for What We Cannot See	4 2000	Clocks, Sundials, Nocturnal, water clock, Standard Time
Jackson, Francine	Another Brief History of Time	5 2000	
Bajnoczy, Zoltan ; Bobies, Beas; Kovacs, Balint; and Natran, Istvan	Eclipse in Hungary	5 2000	Solar eclipse August 11,1999
Knack, Kara	Rainbow Gazing	5 2000	Rainbows
	Just Passing By: Near-object Encounters	6 2000	Meteors, asteroids, comets, impact craters, Chicxulub
Luna, Michael			Nova Cygni 1975, Mercury, Astronomical Society of the Pacific, Sky & Telescope
Krupp, E.C.	The Sky Winked, Ben Mayer, 1925-1999	6 2000	Moon month names
Knack, Kara	Mellow Moon	6 2000	Essay Contest
Krupp, E.C.	The 2000 Boeing Winners	7 2000	Mercury space program, Valentina Tereshkova, Jerri Cobb, Jane Hart, Jacqueline Cochran, George Low, John Glenn, Malcolm Scott
McNamara, Bernard	The Mercury 13 and the Selection of Woman Astronauts	7 2000	Lightning, thunderstorms, Thor
Knack, Kara	Flash!	7 2000	

<u>author</u>	<u>title</u>	<u>mo year</u>	<u>key words</u>
			Galaxies, Edwin Hubble, Hubble Space Telescope, the Big Crunch, the Big Bang, Cosmology, Universe, Supernova
Graham, Alister	The Ultimate Free Ride	8 2000	
Rao, Joe	Well, I Did Promise Them a Big 5	8 2000	Leonid meteor shower
Knack, Kara	Scaling, Scaling	8 2000	Solar System scale
Conselice, Christopher J.	In Search of the Solar Corona	9 2000	Corona, solar eclipse, Bailey's Beads, Hale, Lyot
Knack, Kara	Checking References	9 2000	Accuracy of astronomical information Robert H. Goddard, Rockets, meteor shower, meteoroid hazards to spacecraft, Perseid meteors
Winter, Frank H.	Goddard's Meteor Mania	10 2000	
	The Storm at the End of the Century	11 2000	1999 Leonid meteors
Rao, Joe			
Upton, Edward K.L.	The Leonids were Dead, They Said	11 2000	Leonid meteor storms An account of the August 11, 1999 solar eclipse from Romania
Knack, Kara	Thanks for Giving	11 2000	Archaeoastronomy, the sun, Greek mythology, solar eclipse, corona
Manning, James G.	Voyage to the Secret Sun	12 2000	Milky Way, galaxy, globular cluster, Kapetyn Universe, stars,
Lazio, Joseph	What Lurks in the Heart of the Milky Way	1 2001	Sagittarius Gordon Mitchell. Paul Roques, Anthony Cook. Telescope demonstrator, Astronomical Observer
Palmer, Kirk	Twenty Years After	1 2001	Venus, Aphrodite,
Knack, Kara	Unveiling Venus	1 2001	Mesoamerica
Baker, Alexi Shannon	A Microscope on the Macrocsm	2 2001	Microorganisms, nanobacteria, ALH 84001, Mars meteorite, Scanning Electron Microscope Parrot, Chabot Observatory and Science Center,
Olivarez, Jose	Astronomy for Parrots	2 2001	planetarium
Knack, Kara	One Worth Looking Up To	2 2001	Benjamin Banneker, stellar transit, almanac Expanding universe, Einstein, cosmology, Edwin Hubble, cosmological constant, supernova, Kerrigan Problem
Goldsmith, Donald	The Runaway Universe	3 2001	Moon lore, Shiva, Chanda
Naik, Atul P.	The Mother's Lunar Brother	3 2001	Mama, India William and Caroline Herschel, Uranus, Astronomers
Knack, Kara	Instruments of Great Thought	3 2001	Monument
Jackson. Francine	The Human Side of Halley's Comet	4 2001	Comet, transit of Venus, Edmond Halley, 1910, 1986, 2060

<u>author</u>	<u>title</u>	<u>mo year</u>	<u>key words</u>
Knack, Kara	Far From Home, but not in the Neighborhood	4 2001	Ferdinand Magellan, European exploration, Magellanic clouds
Thurston, Hugh	Maya Eclipse Anticipation	5 2001	Mayan calendar and cycles, Dresden Codex, Sacred Round Telescope, microscope, Galileo
Knack, Kara	What a Spectacle	5 2001	Benjamin Franklin Total solar eclipse, World Wide Web, eclipse expeditions, photography
Bell, Trudy E.	The Eclipse Chasers	6 2001	Apollo astronauts, moon landing, Aristarchus, Hipparchus
Kara, Knack	Moonblind	6 2001	Lunar grazing occultations expeditions, moon, stars, Aldebaran, Riverside
Bell, Trudy E.	Have Telescope, Will Travel: The Origin of U.S. "Graze-chasing" Expeditions	7 2001	Astronomical Society, U.S. Naval Observatory, David W. Dunham
Knack, Kara	Get into the Light	7 2001	Ozone layer, suntan, ultraviolet light, sun, vitamin D, eyes
Bordeleau, André G.	Ferdinand Magellan and his Clouds	8 2001	Magellanic clouds, southern hemisphere, navigation, Spain
Knack, Kara	The Upside of Down Under Enlarged by Perception: The Moon Illusion and the Shape of the Sky	8 2001	Gravity, southern sky, Albrecht Durer, Crux, Centaurus, astrocartography
Young, Arthur	Aligning Giza: Astronomical Orientation of the Great Pyramid	9 2001	moon, clouds, horizon, Muller-Lyer illusions
Thurston, Hugu	Aligning Giza: Astronomical Orientation of the Great Pyramid	9 2001	Egypt, Krufu, The Orion Mystery and the Message of the Sphinx, total solar eclipse, Griffith Observatory, Friends of the Observatory
Knack, Kara	Stuck on Starstruck	9 2001	2001 Mars Odyssey, Greenhouse gases, atmosphere, temperature
Gerstell, Mimi	Keeping Mars Warm	10 2001	Titan, Greek Mythology, Zeus, Pleiades, star atlas, Ptolemy
Knack, Kara	Atlas	10 2001	Cosmology, Edwin Hubble, M31, Milky Way, Einstein, electromagnetic force, weak and strong force, atomic nuclei, big bang
Niemack, Michael	The Evolution of the Universe California's Second Largest Stone Meteorite Lands at Griffith Observatory	11 2001	Meteor, Bruceville, chondrite, iron-nickel
Krupp, E. C.	Time's Up	11 2001	Standard time, time zones, railroads, Griffith Observatory's renovation

<u>author</u>	<u>title</u>	<u>mo</u>	<u>year</u>	<u>key words</u>
				Griffith Observatory Observatory, "Zippy the Pinhead," Marvel Comics, Los Angeles Terminal Annex Post Office, Knots berry Farm, Dragnet, Rocketeer, Space Stop, Barnsdall Park, LA Library, Disney California Adventure, Hardy Holzman Pfeiffer Associates John Goodricke, Perseus, Algol, Edward Pigot, delta Cephei Total solar eclipse on June 21, 2001, Africa, Victoria Falls, Southern Cross, Cannon GL-1 camcorder Dark matter, Dr. Fritz Zwicky, galaxies Lunisolar calendar, moon phases, equinox, solstice, holidays, seasons, China, Jesuits, Mickey Mouse, Temple of Heaven Foucault Pendulum, Colonel Griffith J. Griffith, Hugo Balin, Zeiss Mark IV, Universarium, renovation Between the Lines- Anthony F. Aveni Star Gods of the Maya- Susan Milbrath The Hole in the Universe-K.C. Cole A Field Guide to the Stars and Planets-Jay M. Pasachoff Meridian, longitude, time zones, England, Royal Greenwich Observatory, transit circle, George Biddell Airy, Astronomer Royal Dr. Maarten Schmidt, 200-inch telescope on Palomar Mountain. Debra Griffith, 3C 273, Time magazine, quasar, Dr. George Abell, Edwin Hubble, Harlow Shapley, Carl Sagan
Krupp, E. C.	Iconic Observatory	12	2001	
Reed, George	As Silent as the Stars	1	2002	
Piini, Ernest	An Eclipse over Zambia: A triple Diamond Ring Ceremony	1	2002	
Knack, Kara	In the Dark	1	2002	
Aslaksen, Helmer	When is Chinese New Year?	2	2002	
Knack, Kara	Like a Rolling Stone	2	2002	
Krupp, E. C.	New Books	2	2002	
Read, Nicholas	Observing Greenwich	3	2002	
Knack, Kara	Looking Back but Looking Up	3	2002	
Pritchard, Matthew	[1]\$evi\$Xlivi\$R\$D\$ev\$sr\$li\$	4	2002	Gi q ix r i \$ t s p s \$ P y r e \$ 7 \$ n i w

<u>author</u>	<u>title</u>	<u>mo year</u>	<u>key words</u>
			Renovation, closing of Griffith Observatory, news media, Hardy Holzman Pfeiffer Associates and Levin & Associates, Architects. Project manager Stegeman & Kastner.. Planning and Construction Division of the City of Los Angeles Department of Recreation and Parks.
Krupp, E.C.	Closed Universe	4 2002	Design
Knack, Kara	Devilish Dust	4 2002	Meteorite, volcanic dust, Sahara sand
	Hot Off the Press!: The Evolution of Astronomy from Professional Endeavor to Popular Access	5 2002	telescopes, Meade, Celestron, Ealing Optics, Edmund Scientific, Unitron, SBIG, Orion Telescopes
Grice, Noreen and Spitkivsky, V. Matthew		5 2002	
Piini, Ernest	Gswxe\$Vmge\$Gpsyhw\$Iç	5 2002	Annular Eclipse, December 14, 2
Knack, Kara	Instrumental Art	5 2002	camera obscura, Antonio Canale Leppi}+w\$gsqix0\$g
Baker, Alexi Shannon	Xli\$Liezirw\$Fpe~i	6 2002	Oslsyxio0\$ergmirx\$gsqix\$ sfwivzexmsrw0\$gsqix\$Fsvvipp} Ewxvsrsqmgep\$vijiv w}wxiqw0\$vmklx\$ewgirwmsr0\$ higpmrexmsr0\$~irmxl0\$tspi0\$kvieX\$ gmvppi
Knack, Kara C	Coordinating the Sky	6 2002	Boeing essay contest winners
Krupp, E.C.	The 2002 Boeing Winners	7 2002	Uranus, Neptune, Pluto, planetesimal, Edgeworth-Kuiper Belt, asteroids, Upsilon Andromedae, Don Dixon, artwork
Weiss, John	A (Fairy) Tale of Two Planets	7 2002	Telescopes, Foucault pendulum, cloud chamber
Knack, Kara	Tooling Around the Universe	7 2002	War of the Worlds, Mars Climate Orbiter, Mars Polar Lander, Armageddon, NBC's Asteroid, Shoemaker- Levy 9, Christopher Columbus and lunar eclipse, Andromeda and Perseus
Jackson, Francine	Ghost Stories in the Sky	8 2002	
Knack, Kara	Ocean Motion	8 2002	Tides, moon, sun, gravity
Gharib, Hossein			Magi, Zoroaster, history of astronomy in Iran and the Middle East, Veramin meteorite
Alizadeh	The Magi and the Meteorites	9 2002	
Knack, Kara	Imported Merchandise	9 2002	Meteors, meteorites, dinosaurs

<u>author</u>	<u>title</u>	<u>mo year</u>	<u>key words</u>
Portree, Dr. David S.F.	Flagstaff's Battle for Dark Skies	10 2002	Light Pollution, Flagstaff, Arizona, Lowell Observatory, Naval Observatory Flagstaff Station, Dr. Harold Johnson, Dr. John Hall, Dr. E.C. Slipher, Dr. Arthur Hoag, Dr. G.W. Lockwood, Christian Luginbuhl, Dr. Harold Ables, Dr. Eugene Shoemaker, Dr. David Crawford
Sligar, Sylvia	Eclipse Dining	10 2002	10 June 2002 partial eclipse, annular eclipse, Orange County Uranus, Neptune, Pluto, Uranium, Neptunium, Plutonium, nomenclature
Knack, Kara	Name Game	10 2002	10 June 2002 Annular Eclipse, La Cruz de Loreto Mexico
Harris, Joel K.	Good to the Last Drop	11 2002	10 June 2002 partial eclipse, Griffith Observatory Removal of Observatory Periscope, 4 June 2002, Los Angeles Maritime Museum
Krupp, E.C.	Closed for Eclipse	11 2002	Constellations, Orion
Krupp, E.C. Knack, Kara	Uprooting the View Desperately Seeking Orion	11 2002 11 2002	Vulcan, Intramercurial planet Earth's Twin, co-orbital planet, Planet X, status of Pluto, Bode's Law, asteroids Temperature
Ridolfo, Frank	Planets That Never Were	12 2002	
Knack, Kara	Not Hot	12 2002	
Pritchard, Matthew	Visitors from Other Stars, The Mystery of Cosmic Rays	1 2003	Cosmic rays, origin Griffith Observatory
Knack, Kara	Launching a Satellite for Public Astronomy	1 2003	Satellite Solar time, apparent solar time, eccentricity effect, obliquity effect, equation of time, the analemma, sunrise and sunset times.
Young, Dr. Arthur	What Time Is It, Really?	2 2003	
Knack, Kara	Boxing With Gravity An Orbital View of One's Own, A Proposal for an International Space Station Habitation	2 2003	Gravity, weightlessness International Space Station, Soyuz, Apollo- Soyuz mission, habitation module, crew return vehicle
Torchinsky, Jason	Module	3 2003	

<u>author</u>	<u>title</u>	<u>mo year</u>	<u>key words</u>
			Book Reviews *Connecting with the Cosmos- Donald Goldsmith *The Universe Next Door- Marcus Chown *The Book of the Year- A Brief History of Our Seasonal Holidays- Anthony Aveni *Reinventing the Wheel- Jessica Helfand
Krupp, E.C. Knack, Kara	New Books Socking It to Spring	3 2003 3 2003	Spring equinox
Baker, Alexi Shannon	Astronomy in the Round, The Caracol at Chichen Itza, Yucatan, Mexico	4 2003	Arheoastronomy, Mayan, astronomical, observations
Knack, Kara	Sides of a Sphere	4 2003	Sphere, star shapes History, solar year measurement, Stonehenge, Egypt, waterclock, lunar calendars, Gregorian Calendar, mechanical clock, astronomical methods, time zones atomic time Cosmic rays, GO cloud chamber
Manning, James G.	The Quest for Time	5 2003	Total Solar Eclipse of 4 December 2002, eclipse cruise History, Aristarchos, Claudius Ptolomey, Gian Domenico Cassini, Gottfried Wendelin, Jeremiah Horrocks, John Flamsteed, parallax, radar ranging
Knack, Kara	When It Clouds, It Pours	5 2003	V838 Monocerotis, stellar evolution
Krupp, E. C.	Eclipse Safari at Sea	6 2003	Optical illusions, parallax, retrograde motion, meteor radiants, Mach bands, martian canals, black drop, astronomical history Mars opposition, observation techniques, Observatory plans Launch of Spirit, crater Gusev Machu Picchu, Torreon, Joy Picus Mount Stromolo Observatory, fire of 18 January 2003
Lloyd, Vincent	Who Measured the Distance to the Sun?	7 2003	
Knack, Kara	Some Star	7 2003	
Johnson, Francine	Astronomical Illusions	8 2003	
Cook, Anthony	Mars, You, and Eye	8 2003	
Cook, Anthony	Destination Mars	8 2003	
Krupp, E. C.	FOTO Towers over the Andes	8 2003	
Krupp, E.C. Knack, Kara	Lost Domes From Earth to Mars	8 2003 8 2003	Martians, whimsy
	Mars Close-Up in Talk by William K. Hartmann	8 2003	Lecture announcement

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Lloyd, Vincent	Precession of the Equinoxes	9 2003	Astronomical history, Ptolemy, Hipparchos, Tycho, Newton, precession, obliquity, tidal forces Book reviews *Mind Over Matter: Conversations with the Cosmos, K.C.Cole *Mapping and Naming the Moon, Ewen A. Whitaker *The Heavens on Fire: The Great Leonid Meteor Storms, Mark Littmann *The History and Practice of Ancient Astronomy, James Evans *Mapping Time, E.G. Richards *Stairways to the Stars: Skywatching in Three Great Ancient Cultures, Anthony Aveni *Hubble Vision, Further Adventures with the Hubble Space Telescope (2nd Ed.), Carolyn Collins Petersen *The Secret Origins of the Bible, Tim Callahan
Krupp, E.C.	New Books	9 2003	
Knack, Kara	From What Planet Do You Come?	9 2003	Extra-solar planets
Ventimiglia, Matt	Journey to the Center of the Antumbra	10 2003	Annular eclipse of 31 May, 2003, eclipse expedition Griffith Observatory renovation, photo essay, Griffith Observatory Satellite
Krupp, E.C.	Observatory in Exile	10 2003	
Reed, Dr. George	Someday Wishing on a Star to Wake Up Where the Clouds Are Far; David Peck Todd's Failed Quest Over the Rainbow FOTO Interferes with Mount Wilson	11 2003	David Peck Todd, Mable Loomis Todd, biography, astronomical history Chara Interferometer, Mt. Wilson, Joy Picus
Krupp, E.C.	Wilson	11 2003	Gravity Recovery And Climate Experiment (GRACE)
Knack, Kara	Gravity Under Grace	11 2003	Fruit labels, photo essay, whimsy
Knack, Kara	Urania's Labels	12 2003	Griffith Observer index
	Index to Volume 67, 2003	12 2003	
Gerstell, Dr. Mimi	Proving the Plurality of Worlds	1 2004	Extrasolar planets, circumstellar disks, pulsar planets, future prospects
Nakamoto, David	Suburban Skies	1 2004	Pleiades, backyard observing Caption for Matt Ventimiglia photo, lunar eclipse of 15 May 2003
Krupp, Dr. E.C.	Climbing out of Eclipse	1 2004	FOTO notes, meanings of "resolution"
Knack, Kara	Resolutions	1 2004	

<u>author</u>	<u>title</u>	<u>mo</u>	<u>year</u>	<u>key words</u>
	Probing the Early Universe			Observational cosmology, big bang, reionization era, inflation, cosmic microwave background, quasar spectra, future prospects. Errata, March 2004
Mack, Katie	Reionization	2	2004	
Nakamoto, David	Suburban Skies	2	2004	Observing Saturn
	What a Difference a Day			
Knack, Kara	Makes!	2	2004	FOTO notes, leap year
Young, Dr. Arthur	Reasons for the Season Or How to Barbecue a Chicken	3	2004	Seasons, temperature of earth
Nakamoto, David	Suburban Skies	3	2004	Observing Jupiter
				FOTO notes, 2003 Mars Opposition, Griffith Observatory events, NASA rovers.
Knack, Kara	Marching on Mars	3	2004	Errata, "Probing the Early Universe" (2004 February)
Anonymous	Shifting the Blame	3	2004	Coins, printed money, astronautics, space exploration, rocketry.
Rubin, Dr. Alan E.	Numismatic Astronomy	4	2004	Aurora Borealis display, New England, 1719
				December 22, Cotton Mather, Thomas Robie, Benjamin Franklin
Smith, Dr. Horace A.	The Aurora Returns to New England	5	2004	Observing guide, comets NEAT (2001 Q4) and LINEAR (2003 T7)
Nakamoto, David	Suburban Skies	5	2004	Aurora, Persian astronomy, Nabu- Rimmani, Magi, Aristotle, Avicenna
Gharib, Hossein	Aristotle's Aither: A Persian History of the Aurora	6	2004	Backyard observing, globular clusters, M4, M5
Alizadeh				Summer solstice,
Nakamoto, David	Suburban Skies	6	2004	George Ellery Hale, 200-inch telescope, Griffith renovation
Knack, Kara	The Door to Summer	6	2004	Essay Contest
Krupp, E. C.	2004 Boeing Winners	7	2004	Elizabethan Astronomy, heliocentrism, Shakespeare, John Dee, Leonard Digges, Thomas Digges, Robert Recorde, Rosencrantz, Guildenstern
Baker, Alexi Shannon	Was a Star Danced	7	2004	Backyard observing, Ring Nebula, M57
Nakamoto, David	Suburban Skies	7	2004	Saturn, Cassini orbiter, Huygens probe
Knack, Kara	No Plain Planet	7	2004	

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			Chinese Astronomy, Jeusuit astronomers, Shen Kua, Matteo Ricci, Emmanuel Diaz, Johann Adam Schall von Bell, Peter Li Tianjing, Giacomo Rho, Ferdinand Verbiest, Mei Wending,
Baker, Alexi Shannon	Forbidden Knowledge in a Forbidden City	8 2004	Wang Xishan, Micel Benoit, Ruan Yuan
Nakamoto, David	Suburban Skies	8 2004	Backyard observing, star clusters, M6, M7
Knack, Kara	Tripping the Light Fantastic	8 2004	galaxy mergers
			retrograde motion, parallax, history, Aristotle, Claudius Ptolemy, Nicolas Copernicus, Giordano Bruno, Galileo Galilei, Tycho Brahe, Johannes Kepler
Jackson, Francine	Looking Backwards: An Historical Perspective on Retrograde Motion	9 2004	backyard observing, Andromeda Galaxy, M31
Nakamoto, David	Suburban Skies	9 2004	FOTO notes, Genesis spacecraft
Knack, Kara	In the Beginning	9 2004	Saturn, Cassini spacecraft, A Ring, image caption
Cook, Anthony	Dark Side of the A Ring	9 2004	light, electromagnetic spectrum, multiwavelenght astronomy, Gamma ray, X-ray, ultraviolet, infrared, radio
Clemons, Andrea	Perception: Light–Visible and Otherwise—and How it Matters	10 2004	backyard observing, globular clusters, open clusters, M2, M52
Nakamoto, David	Suburban Skies	10 2004	Mt. Wilson Observatory 150-foot solar tower telescope, Joy Picus
Krupp, E.C.	FOTO Power at the Solar Tower	10 2004	Picus book review, Stuckley Illustrated, complied by Neil Mortimer
Krupp, E. C.	Old Pictures of Old Stones	10 2004	FOTO notes, lunar eclipse
Kanck, Kara	Shadowing the Moon	10 2004	8 June 2004 transit of Venus, Fringilla Zambia transit expedition
Krupp, E.C.	African Transit Safari	11 2004	astronomy-themed jewelry, history, fashion
Knack, Kara	Urania’s Jewelry Are We There Yet?	12 2004	Astronomical history, whimsy, exploration
Reed, Dr. George	I’m Bored	1 2005	Photo essay, Saturnian F ring, Cassini spacecraft
Editor	Cheshire Moon	1 2005	Errata, “Looking Backwards” (September 2004)
Editor	Another Backward Glance	1 2005	
Editor	FOTO Pauses on the Causeway	1 2005	Angkor Way, Joy Picus
Knack, Kara	Jyvxlivmrk\$xli\$Je	1 2005	FOTO notes

<u>author</u>	<u>title</u>	<u>mo year</u>	<u>key words</u>
Editor	You Are There	1 2005	Hugo Ballin murals, central rotunda restoration, back cover caption
Landis, Rob	General Old Stars: The Blossoming of Astronomy In the United States	2 2005	Astronomical history, Ormsby Mitchel, Cincinnati Observatory, Dudley Observatory,
Nakamoto, David	Suburban Skies	2 2005	American Civil War, Mars
Knack, Kara	The Hands of Time	2 2005	Backyard observing, M33 FOTO notes, timekeeping
Janes, Sara	The Hubble Space Telescope: Its History and Science	3 2005	Astronomical History, <i>Hubble Space Telescope</i> , <i>James Webb Space Telescope</i>
Nakamoto, David	Suburban Skies	3 2005	Backyard observing, moon
Knack, Kara	Celestial Carousel	3 2005	FOTO notes
Editor	The Sky at First Just Ghostly Turned a Slighter Shade of Pale Pioneering Public Astronomy In the Faster, Cheaper, Better Mini-Planetarium	3 2005	Aurora observation, 2004 July 24, Ashcroft, British Columbia, Canada, Barbara Roden Griffith Observatory, Satellite Facility, mini-planetarium, school shows
Mosley, John		4 2005	SpaceShipOne, Ansari XPrize, 21 June 2004 test flight, 29 September 2004 test flight, 4 October 2004 test flight
Ventimiglia, Matt	Recreation Vehicle: Get Your Spaceflight Tickets Now!	4 2005	Backyard observing, Jupiter
Nakamoto, David	Suburban Skies	4 2005	FOTO notes, spectroscopy
Knack, Kara	Coloring the Sky	4 2005	Nucleosynthesis, atoms, elements
Whittle, Dr. Mark	Children of the Stars	5 2005	Titan panorama, Chesley Bonestell, center illustration caption
Editor	Back to Titan	5 2005	
Krupp, E.C.	Children of the Atom	5 2005	Whimsy, popular culture, atoms
Cook, Anthony	Stalking the Target of Deep Impact	5 2005	Comet 9P/Tempel 1, Deep Impact comet probes, observation
Nakamoto, David	Suburban Skies	5 2005	Backyard observing, Whirlpool galaxy, M51
Knack, Kara	Seventy and Counting	5 2005	FOTO notes, GO anniversary
Editor	Moment Before Truth	5 2005	Titan, Huygens lander
Winter, Frank H.	R.H. Goddard: Space Camera Visionary	6 2005	History, Robert H. Goddard, space photography, rocketry
Knack, Kara	Moon in June	6 2005	FOTO notes, whimsy, moon illumination
Editor	Space Patrol	6 2005	Errata, "Recreation Vehicle: Get Your Spaceflight Tickets Now!" (April 2005)
Editor	Sultanically Seated Mimas	6 2005	Mimas, Saturn, Cassini Saturn orbiter
Krupp, E.C.	The 2005 Boeing Winners	7 2005	Essay contest

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	Heartbreak in San Luis: The Nearly-Forgotten Southern Observing Station of the Dudley Observatory		7 2005	Astronomical history, San Luis Observatory, Argentina, Lewis Boss, Richard Hawley Tucker, Space travel analogue
Bell, Trudy E.	A Crash Course in Comet Observing		7 2005	Deep Impact, Comet 9P/Tempel 1, observing Guide
Cook, Anthony	Self-Inflicted Nuclear Annihilation		7 2005	Deep Impact logo
Editor	Astronomical Icing: The Milankovich Theory		7 2005	Milutin Milankovich, ice ages, precession, axial tilt, obliquity, glaciers, climate
Gersell, Dr. Mimi	Matures		8 2005	Mars opposition, observing guide
Nakamoto, David I	The 2005 Opposition of Mars: What to Expect, Part I		8 2005	Mars Spirit photo, Larry's Lookout
Editor	Local Color		8 2005	Griffith Observatory, Planetarium cork floor, renovation photo
Editor	Crowning Glory		8 2005	FOTO notes, Deep Impact
Knack, Kara	Comet Fireworks		8 2005	Essay contest
Krupp, Dr. E.C.	More Boeing Winners		9 2005	John Flamsteed, Royal Astronomical Society, Greenwich Observatory, history
	The First Astronomer John Flamsteed and the Greenwich Observatory		9 2005	Mars opposition, observing guide
Jackson, Francine	The 2005 Opposition of Mars: What to Expect, Part II		9 2005	Deep Impact photo, "Comet nucleus, comet
Nakamoto, David I.			9 2005	9P/Tempel 1"
Editor	A Scar is Born		9 2005	FOTO notes
Knack, Kara	She Sees Sky		9 2005	Big Bang, microwave background, cosmology
	Primal Scream: Sounds from the Big Bang		10 2005	
Whittle, Dr. Mark	The 2005 Opposition of Mars: What to Expect, Part III		10 2005	Mars opposition, observing guide
Nakamoto, David I			10 2005	Astronomers Monument, photo, Renovation
Editor	A Monumental Restoration		10 2005	Edwin Hubble, Hubble Space Telescope, biography, history
Reed, Dr. George	Double Hubble		11 2005	Samuel Oschin Planetarium, seats, floor, renovation, photos
	See The Constellations in Comfort!		11 2005	
Editor			11 2005	
Knack, Kara	Creatures of the Crescent Moon		11 2005	FOTO notes
			11 2005	Hybrid annual-total Eclipse 8 April 2005, south Pacific expedition
Krupp, Dr. E.C.	Mutiny on the Ecliptic		12 2005	
Keel, Dr. William C.	To the Stars on Silver Wings		1 2006	Rockets, rocket ship, rocket plane, Boeing
Editor	Rocket Planes		1 2006	Space shuttle
				Interplanetary rocket place plans, Popular Science magazine (1934)
Editor	Rocket Plane to Mars		1 2006	
Knack, Kara	Astronomy's New Awakening		1 2006	FOTO notes

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Nakamoto, David	Suburban Skies: Two Winter Jewels	1	2006	Consellation, M37, M38, Pleiades
Wyatt, Ryan	Exploring the Invisible, Observing in Infrared	2	2006	Light, wavelength, IRAS
Ventimiglia, Matt	Eclipsing Art and Literature in the South Pacific	2	2006	Polynesian islands, mythology, Herman Melville
Knack, Kara	Why We Care	2	2006	FOTO notes
Tidey, Steve	A Rough Road to the Stars	3	2006	Radio telescope, Sir Bernard Lovell, dish
Mosley, John	Jonathon Hodge, 1948-2006	3	2006	Biography, obituary, Griffith Observatory, lecturer,
Nakamoto, David	Suburban Skies: A Little Flea on the Back of the Big Dog	3	2006	NGC 2362, Canis Majoris, Hodierna, Herschel
Knack, Kara	Stars in Your Bouquets in Heaven	3	2006	FOTO Notes
Manning, James G.	Lewis and Clark and the Case of the Inept Astronomical Observations	4	2006	American history, navigation, cartography
Knack, Kara	Put on Your Thinking Cap	4	2006	FOTO Notes
Baker, Alexi Shannon	The Mathematical Jewel	5	2006	Astrolabe, ancient astronomy, technology
Morris, Kenneth L.	Completely at Home at Griffith Observatory	5	2006	Custodian, William "Bill" Brown, Los Angeles history
Nakamoto, David	Suburban Skies: Schwassmann-Wachmann 3	5	2006	Comet 73/P, fragments
Jackson, Francine	Dedicated to the Stars: Annie Jump Cannon and the Henry Draper Catalogue	6	2006	Stellar spectra, history, physics
Knack, Kara	Pointing the Way	6	2006	FOTO notes
Nakamoto, David	Suburban Skies: Ask the (Moon) Dust	6	2006	Maria, craters
Nixon, Conor A.	Unriddling the Sphinx: The Huygens Mission to Titan	7	2006	Saturn, moon, William Herschel, Voyager I
Taylor, Bernie	Are There Geese on Cygnus 3?	8	2006	Planet, Milky Way, constellation, lunar cycle
Knack, Kara	All Fall Down	8	2006	FOTO notes
Anonymous	Griffith Observatory's Chris Butler Awarded G. Bruce Blair Medal	8	2006	Samuel Oschin Planetarium, Centered in the Universe, art
Nakamoto, David	Suburban Skies: Jupiter's Complexion	8	2006	Atmosphere, planet, moons, belt, spots, clouds, Great Red Spot
Anonymous	Comet's Swan Song: a Tale in Fragments	8	2006	Swassman/Wachmann – 73P, tails
Janes, Sarah	Galileo and the Telescope	9	2006	Historical figure, astronomer, Copernican theory, instrument
Knack, Kara	Real Time	9	2006	FOTO notes
Rall, Gloria	Benjamin Banneker, David Rittenhouse	10	2006	
Knack, Kara	Two Colonial Astronomers	10	2006	FOTO notes
Knack, Kara	Astronomical Elevator	10	2006	FOTO notes
Krupp, E.C.	Ken Warren Departs the Administration	10	2006	Business Manager, Griffith Observatory history, retirement
Nakamoto, David	Suburban Skies: The Green Giant	10	2006	Uranus, planet
Keel, William C.	Astronomers Beyond Ozone	11	2006	Ultraviolet camera, telescope

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Knack, Kara	The Grand and Galactic Griffith	11	2006	FOTO notes
Verhage, L. Paul	They Came From Outer Space	12	2006	Electroscope, cosmic rays
Krupp, E.C.	Pluto and Beyond	12	2006	Planet, solar system
Krupp, E.C.	Return to Space	1	2007	Griffith Observatory history, renovation, restoration
Krupp, E.C.	Accessing the Universe	1	2007	Griffith Observatory history, renovation, restoration, public announcement
Krupp, E.C.	Griffith Observatory Returns to a Universe Near You	1	2007	Reopen, speech
Krupp, E.C.	On the Wing	1	2007	Event, Galactic Gala, Griffith Observatory history, Gienah, Cygni
Krupp, E.C.	Going Broadway	1	2007	Griffith Observatory history, renovation, restoration, grand opening
Knack, Kara	The Rock and I	1	2007	FOTO notes
Shannon Baker, Alexi	Larceny, Lunacy, & Lenses	2	2007	sextant, Troughton, instrument, circular dividing engine, telescope, spyglass
Cook, Anthony	The Mercury Transit: 8 November 2006	2	2007	Planet
Krupp, E.C.	Stellar Dynamics at Griffith Observatory	2	2007	Curator, Deputy Director, Astronomical Lecturer, Observatory Program Supervisor, staffing
Krupp, E.C.	Woman of the Sidereal Year	2	2007	FOTO Executive Director, award
Kanas, Nick	Sacrobosco's De Sphaera: Required Reading for Astronomy in the Early European Universities	3	2007	Ancient text, book
Cook, Anthony	New Stunning Pictures from the Sky	3	2007	Photography, star cluster, Rover tracks
Sandler, Robert	Lost in Space: The Future of Space Exploration and the U.S. Space Program	4	2007	Space Race, Space Age, shuttle, space station, NASA
Cook, Anthony	Comet McNaught: The Great Comet of 2007	4	2007	Observe
Krupp, E.C.	Eclipse Roamin' in Roman Africa	5	2007	Travel
Lazio, Joseph	FM Radio in the Dark Ages	6	2007	Technology, electromagnetic waves,
Keel, William C.	Navigation: under the Stars, by the Stars, and to the Stars	7	2007	Apollo, space exploration
Krupp, E.C.	John Mosley's Stellar Evolution	7	2007	Griffith Observatory staff, retirement
Waff, Craig B.	"Providence...will send us a fitting telescope...just at the right time"	8	2007	Lawrence Observatory, Amherst
Krupp, E.C.	Up in Smoke	8	2007	Fire, Griffith Observatory
Taylor, Bernie	At the Intersection of Earth and Heaven	9	2007	Prehistoric, hunter, lunar cycle
Danly, Laura	Yuri's Night at Griffith Observatory	9	2007	Cosmonaut

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Lazio, Joseph	By Any Other Name	10	2007	Planets, asteroids, classification, wanderer
Portree, David S.F.	We Lockwood Saves the Universe	11	2007	Astronomer, Lowell Observatory, light pollution, dark sky
Krupp, E.C.	Eclipsing 'til Dawn	11	2007	Lunar eclipse
Evans, Mona	A Little Night Music: A Story of Music, Madness, and the Milky Way	12	2007	William Herschel, Uranus, discovery, planet
Rall, Gloria	Ah, Sweet Mystery of Life	1	2008	Early earth, prehistoric
Krupp, E.C.	Showering with Friends	1	2008	Meteors
Broggt, Erik	A Night on the Mountain	2	2008	Kitt Peak, telescope, dome
Krupp, E.C.	There's No Place Like Holmes	2	2008	Comet
Llyod, Vincent	Does Anyone Really Understand the Moon Illusion?	3	2008	Rising, setting, Aristotle
Shannon Baker, Alexi	Martian Devils and Saturnian Storms	4	2008	Weather, clouds, wind, Mars, Martian, hurricane
Nixon, Conor A.	The Quest for Other Earths	5	2008	Exoplanets, extrasolar planets
Krupp, E.C.	Back in Orbit at Griffith Observatory	5	2008	Satellite, Explorer 1, JPL Constellation, Crab Nebula, cloud, star
Stahler, Steven	Tales of the Crab	6	2008	Solar Eclipse Conference
Krupp, E.C.	Eclipsing Indoors	6	2008	The Big Picture, cluster, galaxy, Messier
Djorgovski, S. George	A Picture Worth a Thousand Stories	7	2008	FOTO speech
Krupp, E.C.	Celestial Treasure	8	2008	FOTO notes, Cosmic Connection
Knack, Kara	Nearly Fourteen Billion Years of Accessorized Time	8	2008	Lunar eclipse, Griffith Observatory events
Krupp, E.C.	The Eclipse Curtain Rises	8	2008	Edwin Hubble, spectrum
Fentress, Stephen S.	Where Did the Big Bang Happen?	9	2008	Sputnik 1, Keep Watching the Skies!
Krupp, E.C.	Operations Moonwatch	9	2008	National Federation for the Blind, tactile astronomy
Grice, Noreen	Slammin' with the Stars	10	2008	Dwarf planet, Easter island, discovery
Cook, Anthony	Meet Makemake	10	2008	Henri Poincare, gravitational radiation, Einstein's general relativity
Gutierrez, Dan D.	Gravitational-wave Astronomy	11	2008	Spitzer Space Telescope, anniversary celebration
Danly, Laura	August Heat Wave	11	2008	Russia, Soviet Union, space race
Pesavento, Peter	Battle for the Moon: The Untold Story of the Circumlunar Race	12	2008	Eclipse Caravan on the Silk Road
Krupp, E.C.	Eclipse Caravan on the Silk Road	1	2009	Asia, China
Rosenfeld, R.A.	From Uraniborg to Yerkes	2	2009	Tycho Brahe, refractor, telescope
Winter, Frank H.	To the Moon by Sciopicon	3	2009	Zeiss projector, Germany
Anonymous	The Other Griffith Observatory	3	2009	Richard Griffith, Sussex, England
Ventimiglia, Matt	On Top of the World and Eclipsing the Midnight Sun	4	2009	Cruise, travel, Artic, north pole

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Knack, Kara	Solar Eclipse Sunbathing in Siberia	4	2009	FOTO notes Mars landing, near-earth objects, near-earth asteroids, near-earth comets, NEAs, NECs
Landis, Rob	NEOs Ho! The Asteroid Option	5	2009	Griffith Observatory fifth grade school program
Danly, Laura	Interplanetary Field Trip	6	2009	Tournament of Roses Parade
Krupp, E.C.	The Parade's Gone By	6	2009	International Year of Astronomy, The Parajo Valley Quilt Association
Frank, Iris	The Universe of Quilts: A Yours-to-Discover Quilt Show	6	2009	James Webb, NASA, space program, moon mission
Fentress, Stephen S.	The Man Who Thought Bigger Than JFK	7	2009	
Olson, Donald W., Doescher, Russell L., Herbert, Joseph C., Newton, Robert H., and Pope, Ava G.	Edvard Munch's Starry Nights, Stormy Skies, and Summer Sunrises	8	2009	Norwegian artist, Getty Center, Starry Night, painting
Keel, William C.	Tremors and Shimmyings: Holding a Telescope Still While the Universe Says, "Cheese"	9	2009	William Herschel, refracting, reflector, equatorial mount, telescope parts
Sherrill, Thomas J.	Starland Stories	9	2009	Children's book, Mary Proctor Allen Telescope Array (ATA), One Hectare Telescope, SETI
Croft, Steve	Mr. Allen's Telescope	10	2009	FOTO notes
Dewane, Sherry	The Aurora and I	10	2009	Kinderman, The Speedy Journey, science fiction
Decker, Dwight R.	The Mystery Moon of Mars	11	2009	FOTO notes
Dewane, Sherry	Booked for the Universe	11	2009	International Year of Astronomy, science of optics
Keel, William C.	Ptolemy's Telescope?	12	2009	Apollo 8 anniversary
Ross, David J.	Apollobaum	12	2009	FOTO notes
Dewane, Sherry	First Light	12	2009	History, sky ownership, democracy, battle for science and sky
Manning, James G.	How Galileo Democratized the Sky	1	2010	FOTO notes, first look through a telescope
Dewane, Sherry	Rooted in the Sky	1	2010	solar eclipse, 22 July 2009, China, Mongolia
Krupp, E.C.	Shanghaied	2	2010	Pre-industrial astronomy, scientific instruments
Baker, Alexi	The Toyman and the Telescope	3	2010	FOTO notes, memoir
Shannon	Rooted in the Sky	3	2010	Parker Scrimshaw, tooth carvings
Dewane, Sherry	Rooted in the Sky	3	2010	Astronomical Observer, Venus occultation
Adkins, Larry	The Sky on a Whale's Tooth	4	2010	
Cook, Anthony	Venus Plays Hide and Seek with the Moon	4	2010	
Dewane, Sherry	Rock Star	4	2010	FOTO notes, Brain May, Queen
Krupp, E.C.	Griffith Observatory Takes the Cake	5	2010	75th anniversary, Ultimate Cake Off
Dewane, Sherry	Time for Cake	5	2010	FOTO notes, cakes
Jackson, Francine	What's in a Name	6	2010	math series, planetary orbits, Titus-Bode Law

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Dewane, Sherry	Sunday Afternoon Universe	6	2010	FOTO notes, attendance
Winter, Frank H.	Garrett Serviss, the Would-be-astronaut Who Helped Start the Space Age	7	2010	Biography, Robert H. Goddard, "moon rocket"
Editor	Serviceable Sky	7	2010	Moon Metal, Curiosities of the Sky
Dewane, Sherry	Summer Moon	7	2010	FOTO notes, moon landing, Apollo 11
Editor	Life on Mars up in Smoke	7	2010	Will's Cigarettes
Johnson, AnneMarie	The Largest Spacecraft Ever	8	2010	International Space Station, microgravity, life on a space station
Editor	Postmarked ISS	8	2010	50th anniversary of the Space Age, commemorative stamps
Editor	Space Station Trek	8	2010	Star Trek Enterprise opening sequence
Dewane, Sherry	Shooting Stars	8	2010	FOTO notes, meteorites
Editor	Stationed at Griffith Observatory	8	2010	Astronomer's monument, ISS
Krupp, E.C.	The Telescope Changed Everything	9	2010	International Year of Astronomy, celebration of public astronomy, Tournament of Roses Parade, Google
Editor	Galileo in Cosmic Conjunction	9	2010	400th anniversary of Galileo's observations with the telescope
Krupp, E.C.	Astronomy on the White House Agenda	9	2010	First Lady Michelle Obama visit to Griffith Observatory
Dewane, Sherry	Looking Backward	9	2010	FOTO notes, Andromeda galaxy
Ross, David J.	The Ashen Light of October	10	2010	Edgar Allen Poe, "Ulalume," Venus, Astarte
Cook, Anthony	Paul E. Roques: Astronomical Observer Griffith Observatory 5 February 1928-11 August 2009	10	2010	Obituary, Griffith Observatory staff
Dewane, Sherry	Friends in Space	10	2010	FOTO notes, relationship between FOTO and Griffith Observatory, Castor and Pollux, the Twins
Krupp, E.C.	Orchestrating Galileo	11	2010	International Year of Astronomy, concert, Arthur B. Rubinstein, "Introduction for Cosmic Conjunction," "Program Commentary at the Greek Theatre Performance of Cosmic Conjunction 2009 for Schoolchildren 6 October 2009," "Narrative for Arthur B. Rubenstein's 'Observations'"
Editor	Observing the Score	11	2010	Musical score, "Observations"
Dewane, Sherry	By the Numbers	11	2010	FOTO notes, building attendance
Clapp, Nicholas	Looking Down on the Sky	12	2010	Borrego Springs

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Ventimiglia, Matt	Eclipsing the Moai	1	2011	Easter Island, Rapa Nui, total solar eclipse
Goldman, Harry	Electrifying Hollywood: Kenneth Strickfaden, Dr. Frankenstein's Electrician	1	2011	Movies, Hollywood, film, Earle L. Ovington Tesla coil
Dewane, Sherry	Neighborhood Watch	1	2011	FOTO notes, Jupiter close to Earth
Keel, William C.	Astronomical Data Diving: Moving Forward by Looking Back	2	2011	History, discovery
Dewane, Sherry	Mooned	2	2011	FOTO notes, musings of the moon
Editor	Astronomical Record Restored	2	2011	Pre-renovation photo of Griffith Observatory
Gutierrez, Dan D.	The Hunt for the Monster Lurking at the Heart of the Milky Way	3	2011	Sagittarius A, Sgr A, radio source, black holes
Dewane, Sherry	Favorites	3	2011	FOTO notes
Krupp, E.C.	Public Transit	4	2011	Gottlieb Transit Corridor, meridians
Krupp, E.C.	Diamond Ring	5	2011	Griffith Observatory 75th anniversary
Luna, Michael	A Fire to Be Lighted: Igniting the Fight for Free Thought and the Scientific Revolution	6	2011	Giordano Bruno, De Revolutionibus, Copernicus
Knack, Kara	The Dust of Time	6	2011	Cosmic Connection cleaning
Dewane, Sherry	Astornomical Pilgrimages	6	2011	FOTO notes, total lunar eclipse
de Messieres, Genevieve	Interviewing a Computer	7	2011	Human computer, Caroyl Beddow (Gooch), women computers, McCormick Observatory
Dewane, Sherry	Greenlight Thinking	7	2011	FOTO notes, green flash
Jackson, Francine	Celestial Navigation with the Birds... and the Butterflies... and the Dashboard of Your Car	8	2011	Migration
Cook, Anthony	Twenty-five Down, Fifty to Go...	8	2011	comet Halley
Goldsmith, Donald	Farewell to the Shuttle	9	2011	NASA's Space Shuttle series, Endeavor, Challenger, Discovery, Columbia
Dewane, Sherry	Schooled in Astronomy	9	2011	FOTO notes
Krupp, E.C.	Astronomical Inspiration Italian Style	10	2011	Galileo, INSAP, fresco, Italy
Editor	Pages of Astronomical Inspiration	10	2011	Sixth International Conference on the Inspiration of Astronomical Phenomena
Dewane, Sherry	Wandering Astronomically	10	2011	FOTO notes
Keel, William C.	Sword of Orion: Astronomical Advancement and Military Technology	11	2011	Celestial navigation, navy, moonbounce
Dewane, Sherry	Cosmic Connections	11	2011	FOTO notes, jewelery
Ventimiglia, Matt	Swan Song: The Final Flights of America's Space Shuttle Fleet	12	2011	NASA, Challenger, Discovery, Columbia, Endeavor, Atlantis, Dreamchaser

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Dewane, Sherry	Constellation Pondering	12	2011	FOTO notes
Pesavento, Peter	Excavating for America's Secret Knowledge of the Soviet Space Program	1	2012	Ivy Green, USS McMorris, Luna 18, NSA, USSR
Krupp, E.C.	Iceland Nights, Northern Lights	2	2012	Light of the Valkyries, Vikings, Richard Wagner, FOTO trip, aurorae
Editor	Hard-copy Universe: 75 Years of Monthly Cosmic Deadlines	2	2012	Griffith Observer, anniversary, magazine, publications
Krupp, E.C.	Drawing Down the Eclipsed Moon	3	2012	Total lunar eclipse, GO events, first live-stream
Injejikian, Susan Armine	The Universe in Your Mailbox: Observing the Observer's Anniversary	3	2012	Griffith Observer, monthly magazine, publications, reprint article
Krupp, E.C.	Another 25 Years of Page-turning Astronomy	3	2012	Griffith Observer, monthly magazine, publications, anniversary
Sufana, Charles	ARISS: Amateur Radio on the International Space Station	4	2012	International program, SAREX, Shuttle Amateur Radio Experiment, communication
Cook, Anthony	The Great Christmas Comet of 2011	4	2012	Comet Lovejoy (C/2011 W3), Kreutz sun-grazer
Dewane, Sherry	Space Debris	4	2012	FOTO notes, Sputnik 4, Manitowoc
Reed, George	Would I Like to Go to Mars? No!	5	2012	Space travel, astronaut life, ISS, International Space Station
Philpott, Lydia	Gravity's Optics and Other Worlds	6	2012	Microlensing, plurality of worlds, infinite universe, gravitational lensing, bending light
Keel, William C.	The All-new, Positively Improved, Better-than-ever Astronomy	7	2012	Charge-coupled devices, CCD, technological advances
Lawrence, Ken	Civil War Lessons from Upham's Propaganda Envelopes	7	2012	Samuel C. Upham, counterfeit, President Lincoln, comet
Editor	Why They Don't Land on the White House Lawn	7	2012	Lucknow, India, Candhi Planetarium
Woo, Richard	Seeing Is Not Believing, and Pictures Can Lie: Reality and Illusion in a Total Solar Eclipse	8	2012	Camera versus eye, corona, photography
Dewane, Sherry	Drinking the Stars	8	2012	FOTO notes, champagne
Jackson, Francine	Dark Sides of the Moon	9	2012	Total lunar eclipse, occultation, umbra
Danly, Laura	All Space Considered	9	2012	Monthly program at Griffith Observatory, GO
Dewane, Sherry	Pilgrims Progress	9	2012	FOTO notes, GO visitors
Krupp, E.C.	Eclipse Parking	10	2012	Solar eclipse, deep partial eclipse, annular eclipse, The National Parks and Monuments Annual Solar Eclipse of 20 May 2012
Danly, Laura	All Space Considered	10	2012	Monthly program, science updates

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Krupp, E.C.	Time's Up 2012 and the Maya Calendar End Times Follies	11	2012	December 21, 2012, apocalypse, End of Time, End of the World, doomsday, Millenium, Y2K, baktun, New Age
Pine, Mark	Public Demonstrates Curiosity about Mars Landing	11	2012	Curiosity rover, Mars exploration, GO livestream, JPL, events
Goldsmith, Donald	Runaway Neutrinos versus the Runaway Universe	12	2012	Nobel Prize, particle physics, neutrinos, expanding universe, dark matter, dark energy, cosmological constant
Pine, Mark	Endeavor Shuttles Huge Crowds to Griffith Observatory All Space Considered	12	2012	Flyover, last flight
Danly, Laura	August & September, 2012	12	2012	Monthly program write-up
Dewane, Sherry	Show Time	12	2012	Time's Up, Samuel Oschin Planetarium show
Fentress, Stephen S.	In Search of a Cool Approach to Global Warming	1	2013	Climate change, temperature, carbon dioxide, greenhouse gas
Danly, Laura	All Space Considered October, 2012	1	2013	monthly program write-up, Mars, Curiosity, Opportunity
Dewane, Sherry	Martian Curiosity	1	2013	FOTO notes, Curiosity
Krupp, E.C.	Transiting Twice at Griffith Observatory	2	2013	Gottlieb Transit Corridor, Venus transit, local noon
Danly, Laura	All Space Considered November, 2012	2	2013	Monthly program write-up, Endeavor, Curiosity
Wherry, Joshua Michael	H.G. Wells, Mars, Curiosity, and Me	3	2013	The War of the Worlds, alien life, Martians, topography, atmosphere
Danly, Laura	All Space Considered December, 2012	3	2013	Monthly program write-up, Curiosity, Messenger
Cook, Anthony	Comet PANSTARRS Stars in March	3	2013	Comet C/2011
Philpott, Lydia	Copernicus, Capella, and Circumsolar Orbits	4	2013	Karlsruhe, Badische Landesbibliothek Cod. Aug. 167, manuscript, epicycle, equant, eccentric
Krupp, E.C.	In Living Color	4	2013	Pageant of the Masters, "The Genius," Cycle of Life, Dr. Duling
Danly, Laura	All Space Considered January, 2013	4	2013	Monthly program write-up, Endeavor, Mars
Ventimiglia, Matt	A Proud Bird Comes Home	5	2013	Reconnaissance Orbiter Shuttle Carrier Aircraft, Endeavor, last flight
Danly, Laura	All Space Considered February, 2013	5	2013	Monthly program write-up, "Making Astronomy Public: Los Angeles Style"
Dewane, Sherry	Arts and Sciences	5	2013	FOTO notes, George Stanley, The Oscar, Astronomer's Monument

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Bell, Trudy E.	Inventions and Insecurity: George Washington Hough	6	2013	Director, Dudley Observatory, Dearborn Observatory, Cincinnati Observatory, writing career
Cook, Anthony	Comet PANSTARRS C/2011 L4 Does Los Angeles	6	2013	Zeiss telescope, Southern California, STEREO-B HI-I spacecraft
Keel, William C.	Less Light, More Enlightenment	7	2013	Bayer mask, filtered imaging, wavelength bands
Danly, Laura	All Space Considered March, 2013	7	2013	Observatory programming, Siberian meteor
Dewane, Sherry	Getting a Corner on the Year	7	2013	Jerry Factor, equinox, Foucault Pendulum
Krupp, E.C.	Griffith Observatory, Apocalypse Police	8	2013	Mayan calendar, Aztec calendar, end-of-times, Y2K, "Jupiter Effect," catastrophe
Reitzel, David	All Space Considered April, 2013	8	2013	PANSTARRS, Curiosity, Observatory programming
Shannon Baker, Alexi	A Star to Steer Her by	9	2013	Celestial navigation, Sameul Taylor Coleridge, latitude, longitude, Royal Observatory at Greenwich
Danly, Laura and Reitzel, David	All Space Considered May, 2013	9	2013	Observatory programming, Kepler, habitable worlds, dark matter, ISON
Clapp, Nicholas	Pedestrians on the Road of the Stars	10	2013	Charlemagne, the Milky Way, pilgrimage, St. James
Danly, Laura and Reitzel, David	All Space Considered June, 2013	10	2013	Observatory programming, moon water
Fittingoff, Andrew	Pluto's Story	11	2013	Planets, Greek, Roman, gods and goddesses, discovery, Johannes Kepler, Galileo Galilei, William Herschel, Isaac Newton, definition of planet
Danly, Laura and Reitzel, David	All Space Considered July, 2013	11	2013	Observatory monthly programming, Dr. Sally Ride, Valentina Tereshkova
Webb, Rob	Absolutely Worth It! The School- based Planetarium	12	2013	planetaria in schools, education, planetarium boom, Pennsylvania
Danly, Laura and Reitzel, David	All Space Considered August, 2013	12	2013	Observatory monthly programming, quasars, black hole
Berube, Conrad	Dawn on My Luck A Lesson in Astronomical Alignment	1	2014	Astronomical instruments, architecture, structures, cardinal directions, poles, megalithic monuments, ancient observatories, solstitial monument
Wallace, Lane	Dr. Edward K.L. Upton: A Remembrance	1	2014	Biography, Associate Director of Griffith Observatory, obituary

<u>author</u>	<u>title</u>	<u>mo</u>	<u>year</u>	<u>key words</u>
Danly, Laura & So, Patrick	All Space Considered September, 2013	1	2014	Lunar Atmosphere and Dust Environment Explorer (LADEE), Nove Delphini, Chesley Bonestell, monthly Observatory programming
Reed, George	In the Footsteps of a Giant	2	2014	Isaac Newton, Woolsthorpe Manor, similarities to Jesus Christ, biography, Grantham, tour
Reitzel, David	All Space Considered October, 2013	2	2014	Voyager I, brown dwarf, monthly Observatory programming
Gallinger, Cailin	Europa: A Dream of Life	3	2014	Jupiter's moons, ocean, Galileo, Pioneer 10 & 11, Voyager, Io, Ganymede, Callisto, topography, composition, ice, water
Danly, Laura & Reitzel, David	All Space Considered December, 2013	3	2014	monthly programming, comet ISON, neutrinos
Llyod, Vincent	The Meaning of Astronomy	4	2014	Language, root words, Germanic, Latin, Greek, and Arabic, origins
Danly, Laura; Reitzel, David; So, Patrick & Cook, Anthony	All Space Considered January, 2014	4	2014	monthly programming, Chinese moon goddess, Chang'e 3
Jackson, Francine	No Transit Needed	5	2014	Venus, Mercury, 1874, orbit
Danly, Laura	All Space Considered February, 2014	5	2014	monthly programming, polar vortex, Rosetta, P/2013 P5
Pine, Mark	Observatory Director Receives Andrew Gemant Award	5	2014	American Institute of Physics (AIP), City Hall
Rosenfeld, R.A.	Meteors Like Flasks, Wine-concentrated Foundation Stones, & Noble Liquors Reflecting the Æther	6	2014	alcoholic beverages, grapes, sommelier, connections with astronomy
Pine, Mark	NASA Finds Space to Station at Griffith Observatory	6	2014	programming, NASA Day, astronaut
Danly, Laura & Reitzel, David	All Space Considered March, 2014	6	2014	Kepler, monthly programming
Goldsmith, Donald	Neutrinos: Ghost Warriors of the Cosmos	7	2014	Electron, tau, muon, sun, supernova, Wolfgang Pauli, Enrico Fermi, IceCube
Reitzel, David & Danly, Laura	All Space Considered, April, 2014	7	2014	monthly programming, earthquake, gravitational waves, cosmic dust
Reed, George	The Lone Hero Rides Again!	8	2014	Radio drama, art, Edwin Hubble, Milton Humason, Mt. Wilson Observatory
Reitzel, David	All Space Considered May, 2014	8	2014	monthly programming, total lunar eclipse, exoplanet
Silverman, Julie	Nicholas Read	8	2014	Museum Guide, Griffith Observatory, obituary

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McSavane, Matthew J.	Up All Night with SOFIA	9	2014	NASA, Dryden Flight Research Center, Neil A. Armstrong Flight Research Center (ARFC), airborne infrared telescope
Danly, Laura; Reitzel, David & Cook, Anthony	All Space Considered June, 2014	9	2014	monthly programming, international space policy, Russia, crater on Mars
Lovegrove, Elizabeth	The Redwoods and the Ring of Fire	10	2014	Total solar eclipse, umbra, penumbra, annulus, camping, astronomical travel
Cook, Anthony	Better Than a Pinhole-for about a Dollar!	10	2014	Pinhole projection, solar eclipse, tutorial, helioscope projection
Krupp, E.C.	Pay in Blood: The Tax Deadline Total Lunar Eclipse Blood Moon of 14-15 April 2014	11	2014	Total lunar eclipse, tax day, special event, Griffith Observatory, City Council proclamation, umbra, penumbra, blood moon, tetrad
Danly, Laura; Reitzel, David & Cook, Anthony	<i>All Space Considered August, 2014</i>	11	2014	monthly programming, lunar formation, Rosetta, 67/P Churyumov-Gerasimenko, comet, Phoenix lander, water on Mars, calcium perchlorate, Curiosity lander, iron meteorite, Hubble Space Telescope, star formation, colliding elliptical galaxies
Krupp, E.C.	The Camaro That Came Back from the Moon	12	2014	camaro, moon, astronomical distance, Griffith Observatory, 80th anniversary, space suit, Apollo 11, Stellar Evolution
Danly, Laura & Reitzel, David	<i>All Space Considered September, 2014</i>	12	2014	Liniakea, Antarctica, subglacier lake, cells, life, Lake Whillians, Stardust, interstellar material, supernova, zombie star, Hubble Space Telescope
Jackson, Francine	The Train Wreck That Changed Time	1	2015	trainwreck, time, time keeping device, time zones, standard time,
Danly, Laura; Reitzel, David & Cook, Anthony	<i>All Space Considered October, 2014</i>	1	2015	<i>Curiosity, Opportunity, Bruce Jakosky, MAVEN, MOM, Mars, exoplanet, water, Neptune-sized, HAT-P-11b</i>
Giodani, Adrian	TMI: A Supernova Explosion of Astronomical Data and How to Ride the Wave	2	2015	data sets, data collection, data storage, Low Frequency Array (LOFAR), Cherenkov Telescope Array, Large Synoptic Survey Telescope (LSST), CERN, Square Kilometre Array (SKA), code, scientific software, computer science, citizen science

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Danly, Laura & Reitzel, David	<i>All Space Considered November, 2014</i>	2	2015	Virgin Galactic SpaceShipTwo crash, total lunar eclipse, partial solar eclipse, Emily Lakdawlla, Comet 67P/Churyumov-Gerasimenko, Rosetta, Philae, MAVEN, New Horizons, Hubble Space Telescope, HL Tauri, protoplanetary disk, Atacama Large Millimetre Array (ALMA)
Keel, William C	A Universe of Photobombs	3	2015	eclipse, transit, transit of Mars, transit of Venus, Kepler, doppler shift, Rossiter-McLaughlin effect, Spitzer Space Telescope, occultation, Voyager 2, Cassini, Chandra X-Ray Observatory, parallax shift, gravitational lensing, Apollo 8, Hubble Space Telescope
Danly, Laura; Reitzel, David & So, Patrick	<i>All Space Considered December, 2014</i>	3	2015	Comet 67P/Churyumov-Gerasimenko, Rosetta, Philae, Gunther Witzel, black hole, G2, Elizabeth Cochran, earthquake warning system, USGS
Cook, Anthony	Comet Lovejoy Comes to the Party	3	2015	Lovejoy, C/2014 Q2, comet
Krupp, E.C.	Eclipse Road to Samarkand	4	2015	Central Asia, Samarkand, Uzbekistan, astronomical tourism, Ulugh Beg, observatory, blood moon, lunar eclipse, livestream
Krupp, E.C.	Sunshine Superman Solar Eclipse	4	2015	partial solar eclipse, USC Trumpet quartet, Richard Strauss, Also Sprach Zrathustra, livestream, Donovan Leitch, "Sunshine Superman"
Danly, Laura & Reitzel, David	<i>All Space Considered January, 2014</i>	4	2015	<i>New Horizons, Pluto, Alan Stern, Charon, Kuiper Belt, Kuiper Belt Object, Curiosity, methane, Mars, drilled, Scott Kelly, ISS, SpaceX, Falcon 9, Dawn, Ceres, Supermoon, Minimoon, lunar eclipse, blood moon</i>
Knack, Kara	Griffith Observatory, James Dean, and the Universe	5	2015	FOTO notes

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Danly, Laura; Reitzel, David & So, Patrick	<i>All Space Considered February, 2014</i>	5	2015	Venus Express, ESA, David Grinspoon, vortex, upside down tornado, deuterium, Chandra X-Ray Observatory, black hole, Milky Way, Sagittarius A, x-ray flare, gas bubble, Beagle 2, MRO, exoplanet, Kepler Space Telescope, Kepler-438b, habitable zone, red dwarfs
Krupp, E. C.	Plutonic Relationships Part 1: First Blush	6	2015	Pluto, Hades, Uranus, solar system, International Astronomical Union, short stories, "The Whisperer in Darkness", mythology, Wonder Woman
Danly, Laura; Reitzel, David; & So, Patrick	<i>All Space Considered March, 2015</i>	6	2015	Dawn mission, Ceres, Mark Rayman, water vapor, Mars, Terra Cimmeria region, Scholz's Star, Oort Cloud, SDSS J1038+4849, SDSSCG 8842.3, SDSSCG 8842.4, gravitational lensing
Krupp, E. C.	Plutonic Relationships Part 2: Bonding and Heartache	7	2015	Pluto, popular culture, Charon, Nix, Hydra, Kerberos, Styx, mythology, New Horizons, planetary geology, dwarf planets, Neil deGrasse Tyson, philately, planet classification
Reitzel, David	<i>All Space Considered April, 2015</i>	7	2015	Scott Kelly, Soyuz TMA-16M spacecraft, Mikhail Konienko, International Space Station, astrobiology, astronautics, Jupiter, solar system, Super-earths, Saturn, quasar, black hole, Lijiang Telescope, J0100+2802
McNamara, Bernard	Tsien, Hsue-shen and China's First Satellite: A Collision between Politics and Technology	8	2015	China, Shenzhou spacecrafts, Tiangong-1, Tsien Hsue-shen, Dong Fang Hong-1, World War II, aeronautics, Theodore von Karman, People's Republic of China, Red Scare, Caltech, Chinese Academy of Space Technology
Reitzel, David	Pi Day	8	2015	Pi day, public events
Danly, Laura; Reitzel, David; & So, Patrick	<i>All Space Considered May, 2015</i>	8	2015	SpaceX, Falcon 9, rocket landing, Saturn, Enceladus, E ring, NASA, astrobiology
Dolan, Joseph F.	Einstein in the Elevator	9	2015	Einstein, gravity, special relativity, general relativity, space-time

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Danly, Laura; Reitzel, Daivd	<i>All Space Considered June, 2015</i>	9	2015	NASA, Dawn, New Horizon, dwarf planets, Ceres, Europa, astrobiology, M31 galaxy, Andromeda galaxy, halo, absorption spectrum, David Helfand, Quest University Canada
Ventimiglia, Matt	The Ultima Thule Frostbite First Day of Spring Total Solar Eclipse of 2015	10	2015	Arctic eclipse, Ultima Thule, Spitsbergen, Greenland, arctic circle, spring equinox, total solar eclipse, Svalbard, Aurora Borealis, solar corona, TravelQuest
Ventimiglia, Matt	A Ringling Bros. Rocket Circus	10	2015	Space Foundation, Barnum & Bailey, Colorado, Yuri's Night, 31st Space Symposium, Vulcan rocket, aerospace awards, STEM education
Spalding, Eckhart A.	In Pursuit of RR Lyraes	11	2015	Standard candles, cepheid variables, Magellanic Clouds, halo, Sloan Digital Sky Survey, star phases, helium ionization, telescopes, spectrograph, emission spectra, graduate research
Danyl, Laura; Wolters, Nicole	<i>All Space Considered August, 2015</i>	11	2015	Pluto, Charon, New Horizons, Tombaugh Regio, Sputnik Planum, planetary atmospheres, Kepler, Kepler-452b, exoplanets, Venus, volcanic activity, Venus Express, Philae, Comet 67P/Churyumov-Gerasimenko
Jackson, Francine	For the Love of a Woman	12	2015	Milton Humason, Mount Wilson, 100-inch Reflector, George Ellery Hale, Edwin Hubble, Cepheid Variables, Fritz Zwicky, astrophysics, dark matter, Schmidt Telescope, universe expansion, Hubble constant
Krupp, E. C.	Pluto Party	12	2015	Pluto, NASA, New Horizons, Johns Hopkins University Applied Physics Laboratory, Southwest Research Institute, Griffith Observatory events, Long Range Reconnaissance Imager, satellite imagery, SB-350 Clean Air and Pollution Reduction Act of 2015

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Cook, Anthony	<i>All Space Considered September, 2015</i>	12	2015	Ceres, Dawn, NASA, planetary geology, Comet Churyumov-Gerasimenko, European Space Agency, Rosetta, Philae, perihelion, New Horizons, 2014Mu69
Tenn, Joseph S.	From Ukiah to Yale: Frank Schlesinger and the Measurements of Stellar Positions	1	2016	Stellar distances, parallax, Yerkes Observatory, George Ellery Hale, International Altitude Service, Edward E. Barnard, Allegheny Observatory, astrometry, photometry, International Union for Cooperation in Solar Research, Yale Observatory, Yale Southern Station, Margaretta Palmer, Louise F. Jenkins, Ida M. Barney, Hipparcos, Tycho Catalogue
Danly, Laura; Reitzel, David; & Cook, Anthony	<i>All Space Considered October, 2015</i>	1	2016	NASA, recurring slope lineae, deliquescence, physical cosmology, submillimeter light, submillimeter galaxies, simulations, Occator Crater, Ceres, Dawn, complex crater
Fentress, Stephen S.	Our Unstill Earth	2	2016	Earth, planetary motion, Galileo Galilei, Dialogue Concerning the Two Chief World Systems, Earth's rotation, aberration, Jean-Bernard-Leon Foucault, Foucault Pendulum, Chandler wobble, precessional motion, atomic clocks, tidal forces, The International Earth Rotation and Reference Systems Service, Coordinated Universal Time, Mars sol
Danly, Laura; Reitzel, David	<i>All Space Considered November, 2015</i>	2	2016	<i>Kepler Input Catalog, KIC 8462852, extrasolar planets, alien life, transits, Dyson sphere, George Musser, non-locality, quantum entanglement, Spooky Action at a Distance</i>
Dolan, Joseph F.	Kapteyn Universe	3	2016	J. C. Kapteyn, International Astronomical Union, paradigm shift, cosmology, solar system, universe expansion, standard candle, parallax, Carte du Ciel, nebulae, ellipsoid of revolution, universe mapping, cosmic dust, galactic plane, spectroscopy

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Reitzel, David; Al-Ahmed, Sarah	<i>All Space Considered December, 2015</i>	3	2016	Mars, Phobos, planetary rings, New Horizons, Pluto, volcanic activity, ice volcanoes, craters, Sputnik Planum, Blue Origin, New Shepard, SpaceX
Regen, Grant	A Universal Interest	4	2016	Amateur astronomy, astrophotography, star parties, school, public outreach, education
Krupp, E. C.	Beethoven's Blood Moon	4	2016	Blood moon, total lunar eclipse, tetrad, apocalypse, public events, Immortal Beethoven, umbra shadows
Reitzel, David; Al-Ahmed, Sarah; & Cook, Anthony	<i>All Space Considered January, 2016</i>	4	2016	Ceres, NASA, Dawn, Occator, magnesium sulfate, water vapor, Falcon 9, SpaceX, vertical touchdown, orbital booster, aerospace research, All 2015 Considered
Wherry, Joshua M.	Dr. James Van Allen: Outer Space Super Star and American Hero	5	2016	Van Allen radiation belts, biography, geomagnetism, aurorae, cosmic radiation, atmosphere, proximity fuze, rockoons, International Geophysical Year, Project Vanguard, Explorer 1, NASA, history, magnetosphere, rover, education, heliopause, "Mark of One Man"
Reitzel, David; Al-Ahmed, Sarah	<i>All Space Considered February, 2016</i>	5	2016	Planet 9, Kuiper Belt, solar system, Pluto, New Horizons, Sputnik Planum, geology, spectroscopy, Comet Churyumov-Gerasimenko/67P, Rosetta, snowflakes, galaxy collisions, exoplanets, globular clusters
Krupp, E. C.	Eclipse Spies in the Java Sea: The Spicy Islands Total Solar Eclipse of 9 March 2016	6	2016	Indonesia, total solar eclipse, travel, sundial, Borobudur, archaeoastronomy, FOTO, pinhole projection, corona, chromosphere, Volendam, Singapore

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Reitzel, David; Al-Ahmed, Sarah	<i>All Space Considered March, 2016</i>	6	2016	Gravitational waves, laser interferometer, LIGO, black holes, space-time, Einstein, LISA, Chandra X-ray Observatory, galaxy, accretion disk, X-rays, cosmic microwave background, inverse Compton scattering, Ken Carpenter, NASA, Transiting Exoplanet Survey Satellite, TESS, James Webb Space Telescope, JWST, Wide-Field Infrared Survey Telescope, WFIRST, Large Ultraviolet-Optical-Infrared telescope, LUVIOR, Stellar Imager array, Terrestrial Planet Imager, exoplanets, SETI
Pesavento, Peter	Where Did Marco Polo Go? A North Star Mystery	7	2016	Marco Polo, exploration, Asia, cartography, Polaris, sigma Octantis, Large Magellanic Cloud, globes, arctic circle, magnetic north, true north, compass, North Pole, Gyrfalcons
Ventimiglia, Matt	Eclipse Side Trip: In the Neighborhood of the Wallace Line	8	2016	Indonesia, umbral shadow, moon, travel, Java, natural disasters, FOTO, total solar eclipse, Wallace Line, cruise
Krupp, E. C.	Celestial Solecism and Astronomical Accuracy: Navigating Nomenclature with Charon	8	2016	<i>New Horizons, Pluto, Charon, dwarf planet, linguistics, planet naming, James Christy</i>
Reitzel, David; Al-Ahmed, Sarah	<i>All Space Considered April, 2016</i>			Supernovae, stellar remnants, Supernova 2012cg, Kepler Space Telescope, Pluto, New Horizons, Charon, space dust, Michelle Thaller, NASA, climate change
Reitzel, David; Al-Ahmed-Sarah	<i>All Space Considered May, 2016</i>	8	2016	Supernovae, X-rays, Local Bubble, iron-60, Hubble Space Telescope, Bubble Nebula, interstellar dust, SpaceX, Falcon 9, vertical touchdown, Red Dragon
Goldsmith, Donald	Dark Energy in Einstein's Office	9	2016	Dark Energy, Einstein, relativity, total solar eclipse, Cosmological Constant, universe shape, Hubble Constant, dark matter, cosmology, anthropic principle, multiverse, Euclid mission

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Al-Ahmed, Sarah; Reitzel, David	<i>All Space Considered June, 2016</i>	9	2016	International Space Station, Bigelow Expandable Activity Module, BEAM, Keck telescope, star formation, exoplanets, Kepler Space Telescope, transit method
Sandler, Robert	Brave New Worlds: The Peril and Promise of Asteroids, Comets, and Near-earth Objects	10	2016	Asteroids, comets, meteoroids, archaeoastronomy, spectroscopy, Oort Cloud, long-period comets, periodic comets, asteroid belt, Kuiper Belt, near-earth objects, Rosetta, Galileo, Dawn, collision prevention, Torino Impact Hazard Scale, deflection, asteroid mining
Al-Ahmed, Sarah; Reitzel, David	<i>All Space Considered July, 2016</i>	10	2016	LIGO, interferometer, gravitational waves, black hole, Einstein, Pluto, New Horizon, subsurface ocean, Michelle Thaller, Juno, Jupiter, satellites, planetary astronomy
Chapman, David M. F.; LeBlanc, Cathy Jean	In Search of the 13th Mi'kmaw "Moon"	11	2016	Canadian aboriginals, Mi'kmaw Chief Moon, Mi'kmaq, calendars, Two-eyed Seeing, ethnoastronomy
Al-Ahmed, Sarah; Reitzel, David	<i>All Space Considered August, 2016</i>	11	2016	galaxies, star formation, black holes, stellar winds, ram pressure stripping, galaxy collisions, halo, XMM-Newton, spectroscopy, Milky Way, Mars, Recurring slope lineae, Mars Reconnaissance Orbiter, CRISM, HiRISE, CTX, planetary geology, deliquescence
Winter, Frank H.	Name-Dropping Past Neptune: "Byrd," "Kronos," "Tombaugh," "Percival," "Minerva," "Bacchus," and the Early History of Pluto	12	2016	Solar system, nomenclature, Pluto, Planet X, photometry, Clyde Tombaugh, blink microscope, newspaper, nebular hypothesis, Venetia Burney Phair, Charon, trans-Neptunian objects, planet classification
Dolan, Joseph F.	Astronomy through the Eye of Buffon's Needle	1	2017	Theodore Lyman, Charles Messier, Buffon's needle, Lyman-alpha clouds, uv light, quasars, absorption spectrum, spectra, red shift, hydrogen clouds, gravitational lensing, Einstein, relativity, Messier object, galaxies, clusters, George Louis LeClerc, Comte de Buffon, probability

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Al-Ahmed, Sarah; Reitzel, David	<i>All Space Considered, October, 2016</i>	1	2017	<i>Juno, Jupiter, NASA, poles, aurorae, radio emission, planetary meteorology, JIRAM, infrared, ESO, exoplanet, Proxima Centauri, Proxima b, Rosetta, comet 67P/Churyumov-Gerasimenko, exobiology, Philae</i>
Abel, Paul G.	Watch This Space	2	2017	Zeiss telescope, Mars, Saturn, rings, planetary meteorology, amateur astronomy, Venus, planetary phases, transits, xenoarchaeology, Jupiter, magnetic fields, belts, Great Red Spot, moons, Galileans, drawing, opposition effect
Nakamoto, David; Krupp, E. C.	Party Favors	2	2017	Griffith Observatory, star party, planetary photography, LAAS, Venus, Mercury, Jupiter, Mars, Saturn, Moon
Al-Ahmed, Sarah; Reitzel, David	<i>All Space Considered November, 2016</i>	2	2017	Axis of rotation, sun tilt, plane of the ecliptic, Planet Nine, DPS 48/EPSC 11, ExoMars, astrobiology, ESA, Roscosmos, Schiaparelli EDM, Trace Gas Orbiter TGO, Mars
Al-Ahmed, Sarah	<i>All Mars Considered</i>	2	2017	Mars, MARS: Our Future on the Red Planet, National Geographic, Leonard David, Rob Manning, JPL, Andre Bormanis, colonization, manned mission
Regen, Grant	Back to the Future: Astronomical Discovery and the "End" of Science	3	2017	Richard Feynman, John Horgan, scientific progress, dark matter, MACHOs, MOND, WIMPs, non-baryonic particles, axions, Edwin Hubble, accelerating universe, dark energy, CMB, cosmological constant, Big Bang, quintessence model, exoplanets, astrometry, barycenter, Doppler effect, transit, interferometry, moons, SETI, habitable zone, Enceladus, Europa, Titan, Mars, astrogeology, MAVEN, Kuiper belt, Oort Cloud, dwarf planets, trans-Neptunian, Dawn, Rosetta, New Horizons, future, space missions

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Al-Ahmed, Sarah; Reitzel, David	<i>All Space Considered December, 2016</i>	3	2017	Pluto, liquid water, Sputnik Planitia, tidal locking, Mars, Curiosity, Egg Rock, laser-spectrometry, ChemCam, drought, recurring slope lineae, lithium, stellar novae, Type 1a supernovae
Fisher, Paul	Iterating West: The Astronomical Observations of Lewis and Clark	4	2017	Meriwether Lewis, William Clark, latitude, longitude, cartography, Thomas Jefferson, sextant, polaris, chronometer, lunar distance method, spherical trigonometry
Reitzel, David; Al- Ahmed, Sarah	<i>All Space Considered January, 2017</i>	4	2017	LIGO, Gravitational waves, exoplanets, TESS, Pluto, Mars, solar system, SpaceX, David Grinspoon, astrobiology, Earth in Human Hands, planetology
Luna, Michael	Oases in the Sky: The Search for Habitable Worlds	5	2017	Habitable zone, Goldilocks zone, exoplanets, Earth, astrobiology, solar system, models, cosmology, Giordano Bruno, greenhouse effect, atmosphere, Sun, magnetic field, magnetic braking, transit, Doppler, TESS, James Webb Telescope
Al-Ahmed, Sarah; Reitzel, David	<i>All Space Considered February, 2019</i>	5	2017	AAS, black holes, Chandra X-ray Observatory, galaxy clusters, interstellar space, garnet stars, plate tectonics, Milky Way, red nova, KIC 9832227, metallic hydrogen
Leseman, Curtis	Inside the Russian Space Program: An Eyewitness at Baikonur	6	2017	Kazakhstan, Expedition 45/TMA-18M, Soyuz Mission, ISS, Russia, rocket launch, cosmonauts, monuments, photography
Reitzel, David; Al- Ahmed, Sarah	<i>All Space Considered March, 2017</i>	6	2017	Mars, Matt Golombek, JPL, Mars 2020 Rover, landing location, astrogeology, Jezero crater, Syrtis, Columbia Hills, TRAPPIST-1, exoplanets, habitability, 47 Tucanae, intermediate-mass black hole

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Goldsmith, Donald	Pluto Redeemed	7	2017	Pluto, New Horizons, planet classification, Charon, Planet X, planet nine, Clyde Tombaugh, solar system, public reaction, dwarf planets, IAU, Kuiper belt, Alan Stern, planetary imaging, Sputnik Planitia, Tombaugh Regio, icebergs, nitrogen ice, atmosphere, tidal locking, Mordor Macula, Serenity Chasma, astrogeology, 2014 MU69
Krupp, E. C.	Devoured by Darkness	8	2017	All-American Transcontinental Total Solar Eclipse, total solar eclipse, photographs, paintings, stamps, archaeoastronomy, mythology
Reitzel, David; Gruenberg, Bill	<i>All Space Considered</i> <i>April, 2017</i>	8	2017	Liz Carey, JPL, climate change, precipitation, drought, spectrometer, ASO, Titan, liquid methane, liquid ethane, carbonation, 2007 OR10, kuiper belt, dwarf planet, moon
Krupp, E. C.	Cosmic Blueprints	9	2017	Cyanotype, Lia Halloran, Harvard College Observatory, history, women astronomers, art exhibit, photometry, galaxies
Perea, Daniel; Reitzel, David	<i>All Space Considered</i> <i>May, 2017</i>	9	2017	Solar eclipse, archaeoastronomy, E. C. Krupp, merchandise, Peggy Whitson, NASA, astronaut, record breaking, Enceladus, Cassini, INMS, spectrometer, hydrothermal vents, CHNOPS
Batt, Geoffrey E.	Like, Wow! A Cryptic Signal for Lonely Souls	10	2017	Wow!, SETI, radio signals, 1420 MHz, Jerry Ehman, 6EQUJ5, Big Ear telescope, philosophy, geology, paleontology, Fermi Paradox, Antonio Paris
Grueneberg, Bill; Reitzel, David	<i>All Space Considered</i> <i>June, 2017</i>	10	2017	Jupiter, Juno, atmosphere, magnetic field, microwave radiometer, aurorae, Svalbard Seed Vault, climate change, LIGO, gravitational waves, black holes, GW170104
Krupp, E. C.	Eclipsing Tetonically	11	2017	All-American Transcontinental Total Solar Eclipse, total solar eclipse, Wyoming, Phelps brothers, eclipse mythology, traveling, Idaho, photographs
Krupp, E. C.	Krupp, E. C.	12	2017	Total solar eclipse, vacationing, branding, photographs

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Reitzel, David; Al-Ahmed, Sarah	<i>All Space Considered July, 2017</i>	12	2017	Exoplanets, Kepler, mini-Neptunes, Parker Solar Probe, heliophysics, solar wind, Sun, total solar eclipse, eclipse safety, solar filter
Rybarczyk, Daniel	White Continent, Red Planet	1	2018	Antarctica, Mars, research, geomorphology, psychology, thermal contraction polygons, radioactive isotopes, volcanic activity, Antarctic Dry Valleys, Olympus Mons, facies, Tharsis Montes, glaciation, astrobiology, concentric crater fill, Phoenix Mars Lander, Mars 2020 mission
Krupp, E. C.	Imagining Antarctica	1	2018	Paintings, photographs, Antarctica
Reitzel, David; Al-Ahmed, Sarah	<i>All Space Considered August, 2017</i>	1	2018	<i>Aqua, Antarctica, Larsen C ice shelf, iceberg A68, climate change, calving, Oort Cloud, WISE, long-period comets, Juno, Jupiter, Red Spot</i>
Prud'homme-Généreux, Annie	Ghost Hunting: The Search for Dark Matter	2	2018	Dark Matter, galaxies, Dark Energy, Fritz Zwicky, gravity, galaxy clusters, Vera Rubin, invisible mass, gravitational lensing, Bullet cluster, MACHOs, WIMPs, Standard Model, quarks, protons, leptons, neutrino, axion, supersymmetry, satellites, cosmic rays, scintillation detectors, Sudbury Neutrino Observatory, DEAP-3600
Reitzel, David; Al-Ahmed, Sarah	<i>All Space Considered September, 2017</i>	2	2018	Exoplanet, Tau Ceti, Doppler method, EBLM J0555-57Ab, eclipsing binary system, stars, Tim Russ, amateur astronomy
Jackson, Francine	Light Speed	3	2018	Speed of light, Relativity, Ole Romer, Jupiter, James Bradley, Fizeau-Foucault apparatus, Marie Alfred Cornu, ether, Michelson-Morley Interferometer
Reitzel, David; Al-Ahmed, Sarah	<i>All Space Considered October, 2017</i>	3	2018	LIGO, gravitational waves, Nobel Prize, Mars, Boron, Gale Crater, astrobiology, Linda Spilker, Cassini, magnetic field, rings
Ventimiglia, Matt	Fifty Years of 2001: Back to the Future	4	2018	<i>2001: A Space Odyssey, SETI, cinematography, popular culture, Stanley Kubrick, science fiction, first-contact, exoplanets, little green men</i>

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Krupp, E. C.	Off-color Eclipse	4	2018	Total lunar eclipse, Super Blue Blood Moon, supermoon, Lunation 1176, blue moon, blood moon, public event, Zeiss, Dragon Be Gone
Reitzel, David; Al-Ahmed, Sarah	<i>All Space Considered November, 2017</i>	4	2018	Gravitational waves, LIGO, Fermi Gamma-ray Space Telescope, GW170817, neutron stars, kilonova, rapid neutron capture, Amy Mainzer, NEOWISE, near-earth objects, NEOCam Project, solar system, Oumuamua, Asteroid 11/2017 U1
Ventimiglia, Matt	Eclipsing the Jackalope	5	2018	All-American Transcontinental Total Solar Eclipse, travelling, dinosaur museums, Yellowstone National Park, Wyoming, Buffalo Bill, jackalope, South Dakota
Al-Ahmed, Sarah	<i>All Space Considered December, 2017</i>	5	2018	Supernova, iPTF14hls, pulsational-pair-instability supernova, David Jewitt, Oumuamua, interstellar asteroid, Mars, recurring slope lineae, planetary topography
Elchert, Ken	Prophecy, Jupiter, and the Dead Sea Scrolls: A New Aspect of the Star of Bethlehem	6	2018	Star of Bethlehem, Christianity, religion, astrology, Sharru, Babylon, Mesopotamia, conjunctions, Dead Sea Scrolls
Reitzel, David; Al-Ahmed, Sarah	<i>All Space Considered January, 2018</i>	6	2018	All 2017 Considered, Moon, Chandrayaan-2, Chang'e 4, Parker Solar Probe, Sun, BepiColombo, InSight, Hayabusa 2, OSIRIS-REx
Dolan, Joseph F.	Things are Seldom What They Seem: The Aberration of Starlight	7	2018	Light, electromagnetic spectrum, longitude, James Bradley, parallax, ellipses, aberration of starlight, stellar motion, ecliptic, gestalt, wave-particle duality, Huygens principle, absolute velocity, luminiferous ether, Michaelson-Morley experiment, special relativity
Al-Ahmed, Sarah; Reitzel, David	<i>All Space Considered February, 2018</i>	7	2018	Mars, water ice, Clifford Johnson, science education, John Young, astronaut memorial
Nakamoto, David	Going the Distance on the Observatory Lawn	8	2018	Griffith Observatory, solar system, lawn model, Kuiper belt, Oort Cloud, scale

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Rawlins, Dennis	Did Eratosthenes Err by Air?	8	2018	Eratosthenes of Cyrene, Ptolemy, Poseidonios, earth's circumference, stades, atmospheric refraction
Al-Ahmed, Sarah; Reitzel, David	<i>All Space Considered March, 2018</i>	8	2018	American Astronomical Society, Orion, nebula, brown dwarves, exoplanets, TESS, James Webb Space Telescope, FRB 121102, ASTRON, fast radio bursts, magnetar, neutron stars, polarization, SpaceX, Falcon Heavy Booster, Falcon 9
Bray-Ali, Noah	Frame Drag	9	2018	General relativity, gravitational waves, black holes, frame drag, sensory perception, frame of reference, sunspots, moon phases, pendulum, quasar, magnetosphere, gravito-electric fields, Lense-Thirring effect
Reitzel, David	Going Dutch: A Date with Andromeda in the Netherlands	9	2018	Netherlands, Hertzsprung-Russell diagram, Andromeda Galaxy, Leiden Observatory, PHAT, SPLASH, PAndAS, Kapteyn Astronomical Institute
Al-Ahmed, Sarah; Reitzel, David	<i>All Space Considered April, 2018</i>	9	2018	Stephen Hawking, memorial, Scott Kelly, astronautics, gene expression, telomeres, Tiangong-1, reentry, China
de Grijs, Richard	Standard Sirens: Listening to Gravitational Waves	10	2018	Gravitational waves, black holes, mass quadrupole moment, Einstein, General relativity, dipole radiation, LIGO, GW150914, standard sirens, cosmology, Doppler shift, standard candles
Al-Ahmed, Sarah; Reitzel, David	<i>All Space Considered May, 2018</i>	10	2018	<i>All Space Considered anniversary, TESS, exoplanets, satellite launch, Mars, InSight, Elysium Planitia</i>
Decierdo, Pecier Paul C.	Chasing after the Moon's Shadow	11	2018	Total solar eclipse, All-American Transcontinental Total Solar Eclipse, umbra, travelling, Wyoming, diffuse light, astrophotography
Babcock, Angela	A Marriage Made in Heaven	11	2018	Total solar eclipse, All-American Transcontinental Total Solar Eclipse, wedding, Idaho

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Al-Ahmed, Sarah; Reitzel, David	<i>All Space Considered June, 2018</i>	11	2018	Asteroid 514107 2015 BZ509, interstellar, counter-clockwise, Europa, Galileo, water plumes, Europa Clipper, astrometry, Gaia satellite, star catalog
Dahm, S. E.	Unlocking the Secrets of Star Formation: The Early History	12	2018	Star formation, nebulae, nebular hypothesis, solar system, Kelvin-Helmholtz timescale, Coulomb barrier, nuclear fusion, proton-proton chain, Hertzsprung-Russell diagram, CNO cycle, hydrostatic equilibrium, interstellar medium, T Tauri stars, accretion disks, protostar, star clusters, association, Herbig-Haro objects, photometry, nebulosity
Al-Ahmed, Sarah; Reitzel, David	<i>All Space Considered July, 2018</i>	12	2018	Mars, dust devils, global storms, Yao Yin, Boyajian's Star, Tabby's Star, KIC 8462852, chromatic dimming, interstellar medium, Ceres, organic material, Dawn, spectroscopy
Leseman, Curtis	Eclipsing at the End of the Road	1	2019	Path of annularity, Antarctica, partial solar eclipse, travelling, Argentina
Al-Ahmed, Sarah; Reitzel, David	<i>All Space Considered August, 2018</i>	1	2019	Mars, subsurface lake, Mars Express, MARSIS, David A. Weintraub, exobiology, cross- contamination, planetary protection, Jupiter, moons, Planet Nine, Valetudo
Somers, Jim	Glen Richard Miller	1	2019	Memorial, Griffith Observatory, staff
Prud'homme- Généreux, Annie	Why Endure Polar Bears, Pitch- Black Night, & -40°? The Aurora in Its Natural Habitat	2	2019	Aurora borealis, northern lights, Galileo, mythology, archaeoastronomy, aurora australis, magnetic fields, atmosphere, chemistry, crackling, terrella, plasma, solar wind, magnetotail, Ian Mann, coronal mass ejections, magnetometer, AuroraWatch, solar system, blue proton aurora, AuroraSaurus, NOAA, Steve, Swarm, citizen science
Al-Ahmed, Sarah; Reitzel, David	<i>All Space Considered September, 2018</i>	2	2019	Moon, water ice, Chandrayaan- 1, Robert Pappalardo, Europa Clipper, Europa, Ultima Thule, New Horizons, 2014 MU69

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Rybarczyk, Daniel	More Than the Eye Can See	3	2019	Light, radiation, wavelength, electromagnetic spectrum, Allegory of the Cave, optical, radio waves, radio waves, Hertz, Hubble, CMB, Infrared, Herschel, ultraviolet, Ritter, X-ray, Gamma-ray, Rontgen, Villard
Al-Ahmed, Sarah; Reitzel, David	<i>All Space Considered October, 2018</i>	3	2019	<i>Hayabusa 2, asteroid, 162173 Ryugu, MINERVA II, MASCOT, NASA, Diamond Anniversary, history, Dharma Planet Survey, Vulcan, exoplanet, 40 Eridani A, HD 26965</i>
Abron, Laura-May	Building Other Worlds	4	2019	Exoplanets, Kepler-90, 51 Pegasi b, Star Wars, Tatooine
Al-Ahmed, Sarah; Reitzel, David	<i>All Space Considered November, 2018</i>	4	2019	Dr. Mark Panning, InSight, Kepler, Soyuz rocket
Rawlins, Dennis	Great Pyramid Alignment	5	2019	Giza, Draconis, Egypt
Usdi, Uguku; Calvillo, Evenly	Catch a Scorpion by the Tail	5	2019	Maya astronomy and astrology, zodiac, Paris Codex, constellation
Al-Ahmed, Sarah; Reitzel, David	<i>All Space Considered December, 2018</i>	5	2019	Jezero crater, Dawn mission, Vesta, OSIRIS-REx mission
Woo, Richard	Naked-eye Observations of the Corona Illusion during the 2017 Total Solar Eclipse	6	2019	All-American Transcontinental Total Solar Eclipse, Ulysees, Martin Kemp, Howard Russell Butler, artwork, paintings
Al-Ahmed, Sarah; Reitzel, David	<i>All Space Considered January, 2019</i>	6	2019	Ultima Thule, New Horizons, Dr. Konstantin Batygin, Kuiper Belt, Planet Nine
Jackson, Francine	To the Moon...but Not Back?	7	2019	<i>Apollo, space race, postage stamps</i>
Luna, Michael	The Cosmic Conundrum: Fermi's Paradox and the Search for Advanced Intelligent Life in the Universe	8	2019	Konstantin Tsiolkovsky, Carl Sagan, alien, DNA, SETI, SERENDIP, Galileo
Al-Ahmend, Sarah; Reitzel, David	<i>All Space Considered February, 2019</i>	8	2019	Dr. Shamila Bhattacharya, genetics, Dr. Raja Guha Thakurta, DNA, RNA, galaxy cannibalism
Monda, Richard	Chasing the Moon's Shadow, Again a sequel Son of a Totally Awesome Experience	9	2019	Total solar eclipse, Colorado
Silverman, Julia	Heavens Copernicus	9	2019	Poland, Copernicus Science Center, planetarium, Krakow
Al-Ahmed, Sarah; Reitzel, David	<i>All Space Considered March, 2019</i>	9	2019	Barnard's Star, American Astronomical Society (AAS), Gaia, Opportunity
Jackson, Francine	Folger's Clock	10	2019	Nantucket, Walter Folger, Nantucket Whaling Museum, astronomical clock

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Al-Ahmed, Sarah; Reitzel, David	<i>All Space Considered</i> <i>April, 2019</i>	10	2019	<i>InSight, Mars lander, Demo-1</i> <i>SpaceX, Hayabusa2, OSIRIS-REx</i>
Krupp, E.C.	Dark and Chile	11	2109	total solar eclipse, South America, Friends Of The Observatory, FOTO. condor, Galapagos
Ross, David J.	Directed to the Stars: Frank Capra's Image for Heaven in It's a Wonderful Life	12	2019	film, movies, George W. Ritchey, Hollywood, Edwin P. Hubble, angel, Christmas
Frazier, Kendrick	Seeing the Southern Cross	12	2019	Leeward and Windward Islands, West Indies, alpha Centauri
Al-Ahmed, Sarah; Reitzel, David	<i>All Space Considered</i> <i>June, 2019</i>	12	2019	SpaceX, Starlink Initiative, Eric Whitacre, "Deep Field"
GO Staff	<i>Griffith Observer 2019 Index</i>	12	2019	Cumulative index, list
Al-Ahmed, Sarah	Golden Moon	1	2020	<i>Apollo 11, 50th anniversary, Griffith Observatory special events</i>
Rawlins, Dennis	Aristarchos Appreciated	1	2020	Greek astronomer, parallax, mathematics, "Great Year"
Olander, Carol	Rocketing out of Washington	1	2020	<i>Apollo 11 Saturn V rocket</i>
Hilgermann, Evan	A Telescope for Everyone	2	2020	Zeiss 12-inch refracting telescope, Griffith Observatory
Krupp, E.C.	Dotting the Eye	2	2020	Mercury transit
Al-Ahmed, Sarah; Reitzel, David	<i>All Space Considered July, 2019</i>	2	2020	<i>Event Horizon Telescope project, black hole, exoplanets,</i>
Prud-homme, Genereux, Annie	Of What Are Aliens Made?	3	2020	Astrobiology, alien life, molecular biology, atoms, exoplanets, water
Al-Ahmed, Sarah; Reitzel, David	<i>All Space Considered August, 2019</i>	3	2020	<i>Planetary Radio, LightSail 2, Local Void</i>
Goldsmith, Donald	No Matter? Never Mind.	4	2020	Dark matter, cosmology, Dr. Fritz Zwicky, Dr. Vera Rubin, galaxies
Al-Ahmed, Sarah; Reitzel, David	<i>All Space Considered</i> <i>September, 2019</i>	4	2020	Dr. Eric Smith, James Webb Space Telescope, black hole
Krupp, E.C.	Astronomical Error	4	2020	Apology, astrophotography
Ventimiglia, Matt	Argentina's Pink Fairy Armadillo Eclipse	5	2020	South America
Al-Ahmed, Sarah; Reitzel, David	<i>All Space Considered: October, 2021</i>	5	2020	Mars, Chicxulub asteroid, dinosaurs
Rybarczyk, Daniel	Sixty Years of SETI	6	2020	Extraterrestrials, astrobiology, aliens
Krupp, E.C.	Going Viral	6	2020	COVID-19, coronavirus, closure
Al-Ahmed, Sarah; Reitzel, David	<i>All Space Considered: November, 2019</i>	6	2020	<i>Chandra X-ray Center, Saturn's moons</i>
Prud'homme-Genereux, Annie	CubeSats: The People's Satellites	7	2020	Space exploration, AlbertaSat, spacecraft
Bedtke, Ann Marie	A Message from Friends Of The Observatory	7	2020	FOTO, Foundation, Griffith Observatory Foundation

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Kozdon, Janus	Dwarf Planets: Rise, Fall, and Legacy	8	2020	Mythology, popular culture, The Minor Planet Catalogue, Ceres, Pluto, Eris, IUA
Bedtke, Ann Marie	Honoring our Friends Angie and Tom Thornbury	8	2020	FOTO, Friends Of The Observatory, Foundation, En Memoriam
Al-Ahmed, Sarah; Reitzel, David	<i>All Space Considered: December, 2019</i>	8	2020	"The Halos and Environments of Nearby Galaxies", HERON, oxygen, Mars, Europa
Heckman, Thad	Mission to Palomar	9	2020	Observatory, observe
Bedtke, Ann Marie	FOTO Spotlight: Andre Bormanis: From Stargazer to Star Trek	9	2020	Griffith Observatory Foundation, member, Friends Of The Observatory
Al-Ahmed, Sarah; Reitzel, David	<i>All Space Considered: January, 2020</i>	9	2020	<i>Spitzer Space Telescope, sun</i>
Jackson, Francine	Lovecraft at Ladd	10	2020	Pop culture, Ladd Observatory, Cthullu, writer
Nakamoto, David	The Comet That Refused to Die	10	2020	Comet Biela
Al-Ahmed, Sarah; Reitzel, David	<i>All Space Considered: February, 2020</i>	10	2020	W.M. Keck Telescope, Hawaii, Mauna Kea,
Bedtke, Ann Marie	FOTO Spotlight: A New Portal to Space	10	2020	Portal Pass, Friends Of The Observatory, Griffith Observatory Foundation, coronavirus
Winter, Frank H.	Asteroids: Foes or Friends? With Thy NEOWISE Dreams and Fables of the Sky	11	2020	"starlike comet", IAU, NEO, near earth objects, mining
Krupp, E.C.		11	2020	Comet NEOWISE
Bedtke, Ann Marie	Legacy Giving	11	2020	FOTO, Friends Of The Observatory, Griffith Observatory Foundation
Leseman, Curtis	Eclipsing with Buddhas	12	2020	Singapore, solar eclipse
Krupp, E.C.	Ringing in Another Eclipse	12	2020	Solar eclipse
Bedtke, Ann-Marie	Deepen Your Personal Connection: Contribute to Friends Of The Observatory's End-of-year Campaign	12	2020	FOTO, Griffith Observatory Foundation, membership
Ridden-Harper, Andrew	Another One Bites the Dust: Planets Facing Imminent Destruction	1	2021	Exoplanets, Kepler, Kepler-152 b, dust
Friedrich, Liesel	David Allen Pierce: 28 October 1936 – 20 August 2020	1	2021	Staff, astronomers, en memoriam
Krupp, Edwin	A Light Touch and a Firm Hand on the Cosmos: Dr. David A. Pierce	1	2021	Staff, planetarium lecturer, en memoriam
Bedtke, Ann Marie	Year-in-review: Adaptation, Service, Astronomy Uninterrupted	1	2021	FOTO, Friends Of The Observatory, Griffith Observatory Foundation, memberships
Ventimiglia, Matt	A Contagion of Solitary Astronomy	2	2021	COVID-19, coronavirus, closure, comet NEOWISE, Mars opposition, Halloween Photography, John Herschel, spectroscopy,
Bohannon, Bruce	First, the Moon	2	2021	astrophotography

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Krupp, Edwin	The Cosmos Fights Back	2	2021	COVID-19, coronavirus, face masks, face coverings
Bedtke, Ann Marie	The Griffith Observatory Online School Program	2	2021	FOTO, Friends Of The Observatory, Foundation, membership, Griffith Observatory Foundation
Jackson, Francine	Transit Transactions and Planet Placement	3	2021	Mercury, Venus, Pierre Gassendi, John Flamsteed, Edmond Halley, William Lassell
Krupp, E.C.	The Best Friend Griffith Park Ever Had: Tom LaBonge, 1953-2021	4	2021	Councilmember Tom LaBonge, En memoriam, politician, Mount Hollywood Summit
Krupp, E.C.	Come Together	4	2021	Jupiter, Saturn, conjunction
Bedtke, Ann Marie	From FOTO to Foundation	4	2021	Friends Of The Observatory, Griffith Observatory Foundation, membership
Sandler, Robert	Water Worlds	5	2021	Exoplanets, Percival Lowell, Mars, habitable zone, "Goldilocks" zone, Jupiter, moons, ice, Signs of Life
Laib, Chris	Arnold Seidel, Astronomically Committed	5	2021	FOTO, Friends Of The Observatory, Foundation, member
Keel, William	It's Never Aliens	6	2021	Astrobiology, SETI, Search for Extraterrestrial Intelligence, pulsars, radio-frequency, megastructures, artifacts
Lesemna, Curtis	Memories of Arecibo	6	2021	Observatory, Puerto Rico, radio telescope
Lewis, Briley	Finding Life in the Universe	7	2021	Astrobiology, extraterrestrial life, aliens
Krupp, E.C.	A Singular Reflection on Jai Singh	7	2021	architecture, sculpture, Celestial Mirror, Barry Perlus
Krupp, E.C.	Michael Margolis: 1942-2021	7	2021	Museum Guide, staff, en memoriam
Prud'homme-Genereux, Annie	Neighborhood Watch versus Growth Charts: The Hubble Crisis	8	2021	Dr. Adam Riess, Dr. Charles Bennett, Hubble constant
Bohannon, Bruce	Photography, the Servant of Astronomy	9	2021	astrophotography, camera, William Herschel, collodion plates, dry plates
Krupp, E.C.	A Horse of a Different Color	9	2021	Lia Halloran, art, exhibit
Bedtke, Ann Marie	New Member Program	9	2021	Griffith Observatory Foundation
Krupp, E.C.	Curtains for the Moon	10	2021	lunar eclipse, umbra
Krupp, E.C.	Blue Blazes	10	2021	Lia Halloran, Your Body Is a Space That Sees, art, exnigit
Griffith, Griffith J.	Gifting Griffith Park	11	2021	donation, 125th anniversary, reprint
Clarke, Charles G.	Griffith J. Griffith and His Park	11	2021	update, Griffith Observatory
Krupp, E.C.; Pine, Mark	Since the Centennial	11	2021	history

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Fentress, Stephen	The Infrared Calls You	12	2021	light spectrum, microns, temperature, wavelengths
Ross, David J.	<i>Life's Questions</i>	12	2021	<i>It's a Wonderful Life</i> , movie
Bedtke, Ann Marie	Give the Gift of the Stars	12	2021	Griffith Observatory Foundation, donation, membership