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

author	title	mo	year	key words
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,
Anonymous	The 200-Inch Telescope	4	1938	Palomar Telescope, 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
Anonymous	The Stars of Our Neighborhood	2	1939	Bessel, star, near, Cygni, parallax, Wolf 359, Doradus, dwarf
Anonymous	The Stars of Winter	2	1939	star, magnitude, constellation, observe, sky, telescope
Anonymous	The Visit of Arcturus to the Sun	3	1939	Arcturus, star, light, year, position, sky, observe, disappear, Schlesinger
Anonymous	Meteorites	3	1939	Meteorite, siderolite, asteroid, iron, atmosphere, retrieval
Aitken, Robert	The Story of Lick Observatory	4	1939	Lick, observatory, refracting, telescope, construction, Holden, Crossley, discoveries
Anonymous	Foretelling Eclipses by Simple Methods: The Amateur May Predict By Using only Addition and Subtraction	4	1939	predict, eclipse, equation, solve, year, saros, perigee, apogee, synodic
Anonymous	Factors Which Produce our Climate	5	1939	atmosphere, climate, earth, particle, sun, temperature, black body, variation
Pruett, Hugh J.	The Desert Meteor of November 16, 1938	6	1939	meteor, sky, observe, report, fireball, search
Anonymous	The Story of Halley's Comet	6	1939	Halley, comet, return, Newton, Tycho, Clairaut
Anonymous	The Martian Dream	7	1939	Herschel, sketch, Mars, cloud, life, land, sea, irrigation, intelligence
Anonymous	Gulliver's Astronomers	7	1939	Swift, Gulliver, Hall, Mars, Deimos, Phobos
Anonymous	Mars Comes Near Us	7	1939	GO, planetarium, show
Anonymous	The Stars of Summer	8	1939	star, observe, sky, telescope, Lyra, Cygnus, Aquila, Sagitta, Capricornus, Sagittarius, Scorpius, Hercules, Jupiter, Saturn, meteor
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

author	title	mo	year	key words
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
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

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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
Anonymous	Long and Short Nights (Planetarium Demonstration for April)	4	1941	GO, planetarium
Nicholson, Seth B.	The Satellites of Jupiter	5	1941	Jupiter, satellite, Galileo, Barnard, Io, Ganymede
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
Anonymous	Ancient Measures of the Distance to the Moon	6	1941	Moon, Aristarchus, Greece, eclipse, distance
Bower, E. C.	Telling Time from the Stars	6	1941	Dipper, time, observation, sky, Polaris, equation
Bissell, Malcolm H.	The Next Two Billion Years (Part 2 of 2)	7	1941	glacial, period, climate, man, Tertiary, cycle, geologic, deforestation, civilization, destruction
Anonymous	Queen of the Evening Sky	7	1941	Venus, sky, observe, telescope
Anonymous	Finding Distances of Stars	8	1941	parallax, distance, Alpha Centauri, Cepheid, measure
Anonymous	The Planetaria In The United States	8	1941	GO, planetarium, United States, Buhl, Hayden, Fels, Adler
Anonymous	Life in the Universe	9	1941	Mars, Earth, life, animal, plant, telescope, extrasolar, planet, chemistry, idealism
Anonymous	Lowell's Maps of Mars	9	1941	Mars, Lowell, Canal, photograph
Olivier, Charles P.	Long Enduring Meteor Trains	10	1941	meteor, light, streak, trail, observe, sky, Leonids, Perseid
Slipher, E. C.	Mars	10	1941	Mars, opposition, sky, observe, season, telescope, hemisphere

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Anonymous	Additional Off Year Sunspots	11	1941	sunspot, photograph
Anonymous	A Trick With the Moon	11	1941	Moon, age, equation, calculation
Anonymous	A Map of the Heavens	11	1941	star map, sphere, declination, celestial, pole, Polaris, ascension, constellation, zenith
Seares, Frederick H.	Absorption by the Dust of Space	12	1941	light, absorption, dust, interstellar, Kapteyn, Barnard, Russell, gas, Hubble, Milky Way
Dinsmore, Alter	Our Galaxy and Beyond	12	1941	GO, planetarium, galaxy
-	Index to Volume V, 1941	12	1941	GO, index
Cleminshaw, C. H.	Galileo	1	1942	Galileo, death, pendulum, telescope, moon, Jupiter, satellite, Saturn, Venus, Sun, spot, Church
Alter, Dinsmore	Seeing 1942 in the Sky	1	1942	sky, observe, eclipse, telescope, planet
Cleminshaw, C. H.	The Time of Day	2	1942	clock, time, Sun, Regulus, solar, day, sidereal, daylight savings
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, main sequence, 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, Albategnius, 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

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

author	title	mo	year	key words
Cleminshaw, C. H.	A Typical Oil Field	9	1943	GO, exhibit, oil, well
Herbig, George H.	Peculiar Stars	10	1943	Capella, Aurigae, bright, dark, companion, Lyrae, Kuiper, egg, contact, Tauri, Joy
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, lapetus, 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
Cleminshaw, C. H.	Sun Time	9	1944	time, sidereal, earth, intersection, sun, ascension, sky, ecliptic, equation, mean
Cleminshaw, C. H.	Two Kinds of Nebulae	10	1944	nebula, galaxy, Andromeda, dust
Bunton, George W.	The Earth Rotates	10	1944	earth, rotate, angular, momentum, deviation, motion, centrifugal, axis
Cleminshaw, C. H.	Stars of the Lowest and Highest Luminosity	10	1944	luminosity, BD+4, close, S Doradus, double, observe
Cleminshaw, C. H.	Modernized Mercator Maps for the Air Age	11	1944	Mercator, map, telecurve, distance, short, circle, great

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Herbig, George H.	Light from Comets	11	1944	comet, reflect, sunlight, spectroscope, graph,
				makeup, element, Doppler
Herbig, George H.	Direction of Rotation of Galaxies	12	1944	velocity, galaxy, radial, tilt, spiral, Andromeda
Cleminshaw, C. H.	Measuring the Speed of Light	12	1944	speed, light, Galileo, velocity, Roemer, Jupiter, revolution, satellite, Bradley, Fizeau, Cornu, Foucault, Michelson, Mount Wilson
-	Index to Volume VIII, 1944	12	1944	GO, index
Bunton, George W.	The Origin of Spectra	1	1945	spectra, white, light, formula, frequency
Anonymous	Daily and Seasonal Movements of the Sun	1	1945	Sun, sky, observe, GO, photograph
Anonymous	The Planets	2	1945	Venus, Sun, conjunction, Mercury, Kepler, Halley's, comet, Jupiter, Saturn
Anonymous	Maps of the Sky	3	1945	sky, observe, chart, constellation, myth
Bunton, George W.	Clouds	4	1945	cloud, vapor, water, temperature, Cirrus, type
Anonymous	A Portable Sundial	4	1945	sundial, create, amateur, design
Anonymous	Tenth Anniversary of the Griffith Observatory and Planetarium	5	1945	GO, anniversary, Griffith
Bunton, George W.	Storms	5	1945	storm, type, thunder, magnetic, atmosphere
Herbig, George H.	The Rotation of the Stars	6	1945	rotation, observe, sky, diameter, velocity, spectral, line
Anonymous	The Solar Eclipse of July 9	6	1945	Sun, Moon, eclipse, observe, sky, total
Anonymous	Exploding Stars	7	1945	star, nova, Crab, Persei, light, curve Aquilae, telescope,
Anonymous	Variable Stars	8	1945	Fabricius, Bayer, variable, Mira, Goodricke, Cephei, light, temperature
Anonymous	How to Recognize the Stars	9	1945	observe, sky, identify, Dipper, map, constellation
Anonymous	The Palomar Telescope	10	1945	construction, Palomar, mirror, Hale
Anonymous	The Moving Planets	10	1945	observe, planet, sky, telescope
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

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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, Merkhet, 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	9	1946	Venus, sky, observe, position, equation, inferior
Anonymous	Program for Planetarium Show, September, 1946: How to 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
Cleminshaw, C. H.	A Possible Meteor Shower	10	1946	Meteor, shower, observe, sky, comet, Giacobini-Zinner, Leonid
Anonymous	Program for the Planetarium Show, October 1946: The Milky Way	10	1946	GO, planetarium
Cleminshaw, C. H.	The Meteor Shower of October 9, 1946	11	1946	meteor, shower, observe, GO, sky, photo
Cleminshaw, C. H.	Using the Moon to Measure Stars	11	1946	Moon, Wilson, interferometer, occultation
Alter, Dinsmore	Living on the Moon	11	1946	Moon, voyage, commercial, rules, life, living, corona, meteor
Anonymous	Program for Planetary Show, November 1946: The Moon	11	1946	GO, planetarium
Cleminshaw, C. H.	The Pleiades	12	1946	Pleiades, constellation, Taurus, sisters, magnitude
Pruett, J. Hugh	Historical Meteor Showers Compared: Recent Display Ranks Well	12	1946	meteor, shower, slave, past, count, estimate, number
Anonymous	Program of Planetarium Show for December, 1946: Our Star, The Sun	12	1946	GO, planetarium
-	Index to Volume X, 1946	12	1946	GO, index

author	title	mo	year	key words
Alter, Dinsmore Cleminshaw, C. H.	The Fireball of May 9, 1947	8	1947	meteor, fireball, Los Angeles, impact
Anonymous	The Great Siberian Meteorite of 12 February 1947	8	1947	meteorite, Siberia, Soviet Union
Holmes, Burton	Boyhood Memories of George Ellery Hale	9	1947	Hale, cruise, memories
Mason, Max	The 200 -Inch - An Experience in Cooperation	9	1947	Hale, Wilson, telescope, Palomar, McDowell
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
Alter, Dinsmore	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	12	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, 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
Cleminshaw, C. H.	Stellar Data	1	1948	galaxy, star, data, distance, bright, size, velocity, motion
Rule, Bruce Hendrix, Don Alter, Dinsmore	The 48-Inch Schmidt Camera of the Mount Palomar Observatory	2	1948	Palomar, telescope, Schmidt, mirror, design, diagram
Cleminshaw, C. H.	The Satellites of the Solar System	3	1948	satellite, Jupiter, Saturn, Galileo, Huygens, Uranus, Neptune, Mars, moon
Alter, Dinsmore	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
Bunton, George W.	The Tesla Coil	4	1948	Tesla, coil, GO, diagram, magnetic, field, exhibit
Alter, Dinsmore	Mr. Newton Retires	4	1948	GO, Newton
Alter, Dinsmore	Discovery of the Fifth Uranian Satellite	4	1948	satellite, Uranus, Kuiper
Alter, Dinsmore	The Changing Tides	5	1948	Moon, tide, Earth, gravity, pull, low, high, average
Cleminshaw, C. H.	Total Solar Eclipses in the United States from 1900 to 2050	5	1948	Sun, Moon, eclipse, total, observe, sky, United States
Alter, Dinsmore	A Unique Asteroid	5	1948	asteroid, Wirtanen, Lick, Hidalgo
Cleminshaw, C. H.	The Names of the Forty Brightest Stars	6	1948	bright, star, Bayer, Flamsteed, Sirius, Vega, Canopus

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Alter, Dinsmore	Sidelights on Isaac Newton	6	1948	Newton, England, library, life, Trinity
Alter, Dinsmore Cleminshaw, C. H.	The Dedication of the Hale Telescope	7	1948	Hale, dedication, telescope, Wilson, Palomar
Fosdick, Raymond B.	The Challenge of Knowledge	7	1948	Adams, telescope, knowledge, quest, search, mankind, Palomar
Anonymous	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
Alter, Dinsmore	A Trip to the Moon: And the Apparatus Which Produces It	8	1948	GO, Moon, Planetarium, projector, design
Mason, Max	Man and Matter	8	1948	Hale, future, Universe
Dubridge, Lee A.	The Palomar Observatory	8	1948	Palomar, telescope, 200, Hubble, Adams, observatory
Cleminshaw, C. H.	The 150 Brightest Stars	9	1948	star, bright, luminosity, constellation
Bush, Vannevar	Two Observatories Operate as One	9	1948	Palomar, Wilson, telescope, Hale, Bowen
Alter, Dinsmore	The Evolution of the Moon	10	1948	Moon, Earth, evolution, how, Darwin, distance
Alter, Dinsmore	The Upper Atmosphere of the Earth	10	1948	atmosphere, Earth, upper, layer, absorption, radio, temperature
Bowen, Ira S.	The Telescope at Work	10	1948	Hale, test, observatory, telescope, spectrum, work
Cleminshaw, C. H.	Eclipsing Double Stars	11	1948	Algol, binary, double, star, eclipse, light curve, equation
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 Union	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

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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. Cragg, Thomas A.	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
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
Cleminshaw, C. H.	The Retrograde Motions of the Planets	10	1949	retrograde, planet, orbit, Earth, Mars, equation, Saturn, Neptune
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
Cleminshaw, C. H.	The Moon’s Path in the Sky	12	1949	Moon, observe, sky, path, position, solstice, ecliptic, phase
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

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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
Cleminshaw, C. H.	Sundials	9	1950	sundial, equation, geometry, time
Cleminshaw, C. H.	The Unique Asteroid, Icarus	9	1950	Icarus, asteroid, Baade, orbit, magnitude, discovery
Alter, Dinsmore	A Possible Large Meteoritic Crater in Canada	10	1950	Canada, crater, meteorite, iron
Vann, Marvin J.	The Second Annual Convention of Western Amateur Astronomers	10	1950	convention, Western, amateur, Astronomical Society of the Pacific, committee
Baum, William A.	Amateur Photometry	11	1950	amateur, photometry, Hipparchus, equation, magnitude, brightness, circuit, build
Anonymous	New Photographs of Galaxies (Made by Mount Wilson and Palomar Observatories)	12	1950	photo, Wilson, Palomar, galaxy
Cleminshaw, C. H.	Planet Positions 1951-1960	1	1951	Mercury, sky, observe, position, Venus, Mars, conjunction, Jupiter, Saturn
Alter, Dinsmore	Some New Photographs of Galactic Objects (Made with the 200” Hale Telescope of the Mount Wilson and Palomar Observatories)	2	1951	Hale Telescope, observe, photo, reflection, nebula, spectra, Trifid, Lagoon, Omega, Lyra
Alter, Dinsmore	Science and Our Daily Lives	3	1951	creed, science, daily, fact, discovery, invention, metaphysic
Cave, Thomas R.	The Problem of Mars (A Program for the Amateur)	4	1951	Mars, amateur, observe, sky, telescope, canal, Ross
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 Penumbral 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

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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	9	1951	Bode, numerology, Germany, pseudoscience, superstition
Custer, C. P.	The Stockton Astronomical Society	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
Cave, Thomas R.	Third Annual Convention - Western Amateur Astronomers	10	1951	Western amateur convention, telescope, observe, sky, San Diego
Killick, Victor W.	Conquest of Space Exhibition at Sacramento	11	1951	Sacramento, model, exhibition, Crocker, scale, solar system
Wylie, Paul E.	The Timing of the Moon’s Phases	11	1951	Moon, phase, year, time, orbit
Alter, Dinsmore	The 120-Inch Telescope	12	1951	Lick, construction, telescope, Palomar, Cassegrain
Alter, Dinsmore	The Story of Pluto	1	1952	Pluto, discovery, Watson, Herschel, Uranus, Bessel, Bode, Lowell, Leverrier, Tombaugh
Cleminshaw, C. H.	Some Notable Asteroids	2	1952	asteroid, Ceres, Pallas, Juno, Vesta, discovery, Eros, Apollo
Merrill, Paul W.	Robert Grant Aitken 1864- 1951	3	1952	Aitken, Lick, death, double, binary, star, survey
Abell, George O.	The Millikan Oil Drop Experiment	3	1952	Grease, element, proton, electron, oil, drop, experiment, Millikan, charge
Alter, Dinsmore	The Upper Atmosphere of Earth	4	1952	Earth, atmosphere, Ionosphere, chemosphere, radiation, mesosphere, exosphere, density
Nicholson, Seth B.	The Satellites of Jupiter	5	1952	Jupiter, Copernicus, Galileo, Italy, zodiac, discovery, revolution, orbit, satellite
Cleminshaw, C. H.	Satellites of the Earth	6	1952	satellite, Earth, equation, artificial, velocity, period
Merrill, Paul W.	The Last Adventures of a Starbeam	6	1952	light, telescope, mirror, reflector, refractor, spectroscopy, Humason
Abell, George O.	Two Populations of Stars	7	1952	light, star, galaxy, elliptical, Milky Way, spiral, nebula, cluster, Hertzsprung-Russell,
Alter, Dinsmore	A Century of Change	8	1952	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
Osborn, Irene D.	Marin Amateur Astronomers	10	1952	amateur, Marin, group, observe, sky, telescope

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Cleminshaw, C. H.	Magnitudes of the Stars	11	1952	magnitude, brightness, difference, ratio, parallax, distance
Struve, Otto	What I Don't Know About Flying Saucers	12	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
Anonymous	The 600-Inch Radio Telescope of the United States Navy	12	1952	telescope, radio, Navy, star, design, reflector
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 Moon's 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
Thorson, W. R.	Life on Other Worlds	10	1953	life, alien, temperature, molecules, energy, Jupiter, Saturn
Cleminshaw, C. H.	Transits of Mercury	11	1953	Mercury, transit, conjunction, sky, observe, telescope
Zwicky, F.	Composite Photography In Astronomy	12	1953	photography, composite, prism, color, surface
Cleminshaw, C. H.	The Moon and Planets in 1954	1	1954	sky, telescope, observe, Moon, Mercury, Venus, Mars, Jupiter, Saturn
Alter, Dinsmore	Identification of Lunar Features (Part 1 of 3)	2	1954	Moon, photo, identification, crater, coordinate
News Release from Palomar	The Distance of Messier 81	2	1954	Messier 81, M81, galaxy, Milky Way
Alter, Dinsmore	The Waxing Moon: Hints to Beginning Telescope User (Part 2 of 3)	3	1954	Moon, observe, sky, telescope, phase, crater, terminator

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Cleminshaw, C. H.	The Scale of Space	4	1954	space, size, scale, Moon, Sun, Alpha Centauri, comet, galaxy, cluster
Alter, Dinsmore	The Waning Moon (Part 3 of 3)	5	1954	Moon, phase, crater, full, observe, photo, terminator
Mawhinney, Les	The Oberamtmann Observer	5	1954	Moon, Schroter, Germany, Mars, Oberamtmann, Venus,
Alter, Dinsmore	Mars	6	1954	Surface, Mars, Fontana, Hooke, Herschel, mass, orbit, feature
Cleminshaw, C. H.	Meteoritics and Meteorology	6	1954	meteor, shower, rain, cloud, noctilucent
Cleminshaw, C. H.	The Wandering of the Pole	7	1954	Pole, North Star, Polaris, precession, celestial, equinox, ascension
Alter, Dinsmore	Tides Today and Through The Ages	8	1954	tide, ocean, Moon, zenith, force, Newton, nodes, apsides
Cleminshaw, C. H.	Chasing an Eclipse	8	1954	Eclipse, Sun, Moon, clouds, observe, telescope, corona, sky
Mawhinney, Les	Doctors and Lawyers	8	1954	Medicine, Fernel, doctor, Olbers, lawyer, Bayer, Rutherford
Kennedy, John R.	Shooting the Eclipse	9	1954	eclipse, Sun, Moon, observe, telescope, photo, total
Alter, Dinsmore	The Beginnings of Astronomical Photography	9	1954	Herschel, Sigma, Kodak, Schulze, photo, camera
Mawhinney, Les	The Astronomical Artist	9	1954	artist, Goldschmidt, Germany, observe, telescope
Cleminshaw, C. H.	Sidereal Time	10	1954	time, Sun, star, equation, vernal, equinox, meridian
Reaves, Gibson	Columbus Thought it Was Small	10	1954	Grease, Columbus, Aristotle, Earth, size, round, Spain, navigation
Reaves, Gibson	The Great Moon Hoax of 1835	11	1954	Moon hoax, alien life, pseudoscience, Doppler, Kirchhoff, New York Sun, Locke
Cave, T. R.	The Sixth Annual Convention "of Western Amateur Astronomers"	12	1954	Convention, Western, amateur, Oakland, meet
Alter, Dinsmore	Sunrise and Sunset on the Moon	12	1954	Sun, Moon, rise, set, colongitude, terminator, latitude
-	Index of Articles in Griffith Observer (Jan., 1949 - Dec. 1954)	12	1954	GO, index
Cleminshaw, C. H.	Jupiter's Four Brightest Satellites	1	1955	orbit, revolve, Jupiter, eclipse, observe, occultation, sky, telescope
Cleminshaw, C. H.	The Moon and Planets in 1955	1	1955	Moon, Mercury, Mars, Venus, Jupiter, Saturn, observe, sky, Uranus, Neptune, Pluto, telescope
Alter, Dinsmore	The Astronomical Meetings at Berkeley	2	1955	Berkeley, meeting, result, discussion
Wheeler, Burritt	How I Wonder What You Are	2	1955	telescope, star, observe, build, astronomy decline, comet, Halley
Mawhinney, Les	A Reporter Looks At Astronomy	2	1955	amateur, study, imagination, curiosity, velocity
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

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Mawhinney, Les	Eclipse Journeys	3	1955	eclipse, India, observe, Janssen, total, observatory, travel
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
Alter, Dinsmore	Above the Limb of the Moon	5	1955	Moon, Wright, photo, Mare Crisium, Grimaldi
Alter, Dinsmore Roques, Paul E.	Tycho Through the Month	6	1955	Tycho, crater, Moon, observe, telescope
Alter, Dinsmore	A Solar Eclipse Viewed from the Moon	6	1955	GO, Moon, eclipse, projector, Planetarium
Mawhinney, Les	Local Boys Make Good: Twenty Years of Griffith Observatory 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
Greever, Garland	Scotland Yard Invades Medieval Astronomy	9	1955	England, Cambridge, Scotland Yard, Chaucer, Astrolabe
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.	Daylight and Twilight	1	1956	Earth, time, Sun, calendar, twilight, equator
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
Cleminshaw, C. H.	The Big Dipper	4	1956	Dipper, Big, North Star, Polaris, observe, telescope, sky, galaxy, Ursa, nebula
Alter, Dinsmore Roques, Paul E.	Correction of Lunar Foreshortening	5	1956	foreshorten, Moon, photo, observe, telescope, crater
Cleminshaw, C. H.	The Story of Mars	6	1956	Mars, revolve, Sun, distance, conjunction, atmosphere, canal
Alter, Dinsmore	Comets and People	7	1956	comet, superstition, pseudoscience, death, Halley, panic
Alter, Dinsmore	Walter Sydney Adams: 1876 December 20-1956 May 11	8	1956	Adams, Wilson, observatory
Alter, Dinsmore	The Artificial Satellite	8	1956	Germany, V-2, rocket, satellite, artificial

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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
Cragg, Thomas A. Alter, Dinsmore	The Flagstaff Conventions: 1956 August 28 - September 1	10	1956	convention, Flagstaff, Arizona, telescope, talks, party
-	The People Present at Flagstaff Convention	10	1956	Photo
Roques, Paul E.	Extensive Cloud Activity on Mars	10	1956	telescope, Mars, atmosphere, cloud, activity
Alter, Dinsmore	The Lunar Eclipse of 1956 November 17	11	1956	Moon, eclipse, observe, GO, 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, Astronomers Say	11	1956	life, universe, survey, proof, alien
Haas, Walter H.	The Association of Lunar and Planetary Observers	12	1956	Moon, observe, meteor, sky, telescope, discovery, Association of Lunar and 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, equipment, instrument
Press Release from Westmont College	Westmont College Observatory	1	1957	Westmont college observatory
Bolton, John G.	Radio Astronomy: At the California Institute of Technology	2	1957	radio, sky, observe, Doppler, 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
Alter, Dinsmore	The Arend-Roland Comet	4	1957	comet, Arend-Roland, photo, telescope, observe
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-Russell, diagram, interests
Anonymous	Whittier Astronomical Society	8	1957	Whittier, society, meteor
Anonymous	Mira Costa Astronomy Club	8	1957	Mira Costa, club, observatory
Cleminshaw, C. H.	Positions of the Planets	9	1957	observe, sky, conjunction, Venus, Mars, Jupiter, Saturn, Mercury
Cleminshaw, C. H.	An Exhibit of Chesley Bonestell's Paintings	10	1957	GO, paint, Bonestell
Alter, Dinsmore	The Satellite	11	1957	Soviet Union, Sputnik, space race, Moon, aristocracy, beat,
Alter, Dinsmore	Foreshadowing Space Travel	11	1957	rocket, Moon, travel, foreshadow, limit

author	title	mo	year	key words
Alter, Dinsmore	Man on the Moon	11	1957	Moon, travel, diameter, weigh, temperature, electric, power
Hagen, John P.	The Satellite Launching Vehicle - Placing the Satellite in Orbit	12	1957	launch vehicle, orbit, velocity, altitude, temperature, satellite, design
Cleminshaw, C. H.	Motions of Earth Satellites	1	1958	satellite, Newton, motion, equation, acceleration, Sputnik, geometry
Alter, Dinsmore	The Moment of Decision	2	1958	turning point, calendar, fire, printing press, mathematics
Hollister, C. Warren	Appearance and Reality in the History of Science	2	1958	Copernicus, Greece, Ptolemy, Almagest, Kepler, Newton, Einstein
Cleminshaw, C. H.	The Planets in 1958	3	1958	observe, sky, telescope, Mercury, Venus, Mars, Jupiter, Saturn
Alter, Dinsmore	Twenty-Three Years of the Griffith Observatory	4	1958	GO, retirement, Alter, Planetarium
Zwicky, F.	News on Gravitation and Nuclear Goblins	5	1958	morphological, Newton, extreme, complete field coverage, gravity, equation, cluster, galaxy, density
-	Dr. Alter Honored	5	1958	GO
Bowen, I. S.	The Universe from Palomar	6	1958	Palomar, observatory, Milky Way, Andromeda, galaxy, Eridanus, luminosity, temperature
Robinson, L. J.	The Los Angeles Astronomical Society	7	1958	Los Angeles, society, Astronomical, amateur, observatory
Copeland, Leland S.	A Short Trail to the Historic Nebula	7	1958	observe, Nebula, telescope, sky, Draco
Hollister, C. Warren	The Idea of a Moving Earth	8	1958	Weltanschauung, world, view, Greece, Philolaus, Ptolemy, Copernicus, Kepler
Copeland, Leland S.	Sight-Seeing in Sagittarius	9	1958	Sagittarius, Aratus, Orion, telescope, sky, observe
Richardson, Robert S.	The Earth's Ghostly Companion in Space	9	1958	gegenschein, glow, sky, observe, Brorson, amateur, study
Bunton, George W. Hagar, Charles F.	The Paradox of the Falling Satellite	9	1958	satellite, parado, equation, velocity, friction, acceleration
Abell, George O.	The Structure and Evolution of Stars (Part 1 of 2)	10	1958	gravity, luminosity, mass, radius, Boyle, Charles, law, temperature, fusion, pressure, Hertzsprung-Russell diagram
Richardson, Robert S.	Icarus - A Celestial VIP	10	1958	asteroid, orbit, Baade, Icarus
Abell, George O.	The Structure and Evolution of Stars (Part 2 of 2)	11	1958	Hertzsprung-Russell diagram, Hydrogen, luminosity, evolution, protostar, Hoyle, Swartzschild, dwarf, supernova
Richardson, Robert S.	Mars Swings Near Again	11	1958	Mars, closet, approach, atmosphere, life, canal, observe
Richardson, Robert S.	The Star of Bethlehem - Fact or Myth?	12	1958	Bethlehem, birth, Christ, religion, Christmas, nova, Venus, Jupiter, Saturn
News Release from Caltech	The Next Five Years at Palomar	12	1958	Palomar, observe, universe, time, telescope
-	Exhibits of the Space Age	12	1958	GO
-	A Manned Observatory in the Stratosphere	1	1959	balloon, telescope, unmanned, manned, observe, stratosphere, Schmidt
Mihalas, Dimitri M.	The Fable of Centrifugal Force	1	1959	satellite, Newton, gravity, centrifugal, motion

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News Release from JPL	Shooting the Moon	2	1959	probe, Moon, flight, plan, pass, trajectory, tracking
News Release from JPL & NASA	Pioneer III	2	1959	probe, Pioneer, failure, atmosphere
Leaflet from Astronomical Society of Pacific	Rotation in the Solar System	2	1959	rotation, Venus, Mars, period, Mercury, Jupiter, Carrington, Sun, Uranus, Neptune
Richardson, Robert S.	Venus	3	1959	Venus, atmosphere, temperature, rotation, axis, cloud, surface
Alter, Dinsmore	The Alphonsus Story	3	1959	Moon, research, surface, photo, GO, Alphonsus, spectrum, gas, discharge
Wylie, Paul E.	The Brightness of An Extended Surface As Seen in The Telescope	3	1959	telescope, equation, light gathering, magnify, bright
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
Norton, O. Richard	The Barringer Meteorite Crater	5	1959	Arizona, meteorite, crater, Barringer, Iron, Jakosky, 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
-	The First International Meeting of Planetarium Executives	6	1959	Planetarium, Meeting, Photo
Richardson, Robert S.	What Kind of a World is Jupiter?	6	1959	Jupiter, rotation, Great Red Spot, atmosphere
Richardson, Robert S.	The Mystery Of the Motion of Encke's Comet	7	1959	Newton, gravity, Encke, comet, velocity, perihelion
Cleminshaw, C. H.	The Scale of The Solar System	7	1959	Solar system, scale, Jupiter, sun, size, light year
Roques, Paul E.	Recurrent Stellar Explosions	8	1959	Novae, Ophiuchi, explosion, spectrum, recurrent
Richardson, Robert S.	Illusion and Reality in the Universe	8	1959	Sun, setting, Copernicus, atmosphere, prove, Jupiter, satellite
Richardson, Robert S.	Some Recent Russian Observations of Venus	9	1959	Venus, Soviet Union, Kozyrev, spectrum, life, photo, period, rotation
Cleminshaw, C. H. Bunton, G. W.	The Foucault Pendulum	9	1959	Foucault, pendulum, Earth, rotation, GO, exhibit
Copeland, Leland S.	The Importance of Being an Amateur	10	1959	amateur, professional, Ptolemy, Stevenson
Cleminshaw, C. H.	Sizes of Celestial Shadows	10	1959	celestial, shadow, equation, Moon, eclipse, diameter, Earth
Mihalas, Dimitri	Atmospheric Effects on Observations	11	1959	atmosphere, telescope, observe, interference, scatter, light, twinkle
Richardson, Robert S.	The Other Side of the Moon	11	1959	Moon, dark side, tide, libration in longitude, Mercury, diurnal, observation
Richardson, Robert S.	The Sky from Mars and the Moon	12	1959	Mars, Moon, sky, observe, Phobos, Deimos, Earth

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News Release from Caltech	Astronomical News from Cal Tech	12	1959	Jupiter, temperature, moonquakes, Sun, magnetic field, supernova
Norton, O. Richard	Optical Aberrations and the Early Development of the Telescope (Part 1 of 2)	1	1960	Galileo, aberration, satellite, Saturn, optical, spherical, long focus, Hevelius, chromatic, reflector, Newton
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
Cleminshaw, C. H.	Astrology	2	1960	astrology, Babylon, Ptolemy, cult, pseudoscience, horoscope, zodiac
Richardson, Robert S.	Our Sun Among the Stars	3	1960	Sun, bright, mass, luminosity, Schwarzschild, granulation, telescope, atmosphere
Adams, W. S.	Address at the Dedication of the Astronomers' Monument at the Griffith Observatory, Los Angeles, November 25, 1934	4	1960	GO, monument, dedication
Richardson, Robert S.	Efforts to Detect Life Beyond the Earth	4	1960	life, alien, planet, stellar, model, frequency, Ozma
Anonymous	Twenty-Fifth Anniversary of the Griffith Observatory and Planetarium	5	1960	GO, anniversary, planetarium
Whitnall, Gordon	The Founding of Griffith Observatory	5	1960	GO, Griffith
Wylie, Paul E.	A Study of the Foucault Pendulum	5	1960	Foucault, pendulum, plane, motion, Earth, rotation, Coriolis effect
Richardson, Robert S.	Imaginary Journeys to the Moon	6	1960	Moon, fiction, Syrian, alien, Lucian, The True Story, Poe, Hans Pfaall, 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
News Release from Caltech	Distance Indicators	6	1960	distance, pulsar, bright, Cepheid
Cleminshaw, C. H.	The Coming Conjunction of Jupiter and Saturn	7	1960	Saturn, Jupiter, observe, conjunction
Carothers, Jan Reaves, Gibson	Umbral Lunar Eclipses - 1960 thru 2000	7	1960	Moon, eclipse, visible Los Angeles, umbral
Douglas, Bruce C.	The Scale of the Solar System	7	1960	astronomical unit, size, solar system, scale, geometry
Richardson, Robert S.	The Moons of Mars	8	1960	Mars, Phobos, Deimos, satellite
Mihalas, Dimitri	The World Calendar: Calendar of Tomorrow	8	1960	calendar, sidereal, anomalistic, tropical, ecliptic, precession,
Hall, Leon	Modernization of the Planetarium Control System	9	1960	GO, Planetarium, modernization, Zeiss, control, console
Douglas, Bruce C.	The Basis of Scientific Inquiry	9	1960	science, axiom, definition, parallel, postulate, Newton, Maxwell
Cleminshaw, C. H.	Frederick Charles Leonard: 1896-1960	9	1960	Leonard, GO
Hagar, Charles F. Bunton, George W.	Planets Plod New Paths in Planetarium	10	1960	GO, Planetarium, projection array, workings

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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
DuBridge, Lee A.	Adventures in Space	12	1960	atmosphere, space, gravity, weightless, satellite, 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
Wylie, Paul E.	Astronomical Navigation	2	1961	navigation, Earth, Sun, Moon, 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
Hagar, Charles F.	Through The Eyes of Zeiss	6	1961	Zeiss, Germany, planetarium, Bauersfeld
News Release from Caltech	The New Value of Earth-Sun Distance	7	1961	Venus, radar, bounce, rotation, astronomical unit, AU, Sun, Earth
Wylie, Paul E.	Lunar Motion (Part 1 of 2)	7	1961	Moon, center, equation, Kepler, Newton, motion, phase, calendar, orbit
Wylie, Paul E.	Lunar Motion (Part 2 of 2)	8	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
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

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Cleminshaw, C. H.	The Two Brightest Asteroids	10	1961	asteroid, Vesta, Ceres, observe, sky, telescope, amateur
Norton, O. Richard	Celestial Cyclotrons	11	1961	radioactive, x-ray, proton, mesons, Yakawa, neutrino
Richardson, Robert S.	Measuring Altitudes on the Moon	11	1961	Moon, altitude, equation, height
Alter, Dinsmore	The Nature of the Lunar Rays	12	1961	Moon, feature, ray, crater, gas, material, form
Hefferan, Vi	Youth in the Satellite Age	1	1962	Moon, watch, Satellite, High School, Explorer, engineer
-	Our 25th Anniversary	1	1962	GO
Killick, Victor W.	California's Early Astro-Geodetic Observatories	2	1962	California, state, observatory, early, geodetic, Sacramento, Davidson
Richardson, Robert S.	What Would I Weigh on Pluto?	2	1962	Pluto, gravity, equation, Newton, weigh
News Release from JPL	Sending Instruments to the Moon	3	1962	Moon, instrument, spacecraft, Ranger, Agena, sensor, experiment, photography
Richardson, Robert S.	"Could You Run The Eclipse Over Again, Please?"	4	1962	GO, eclipse, Sun, Moon, frequency, geocentric, parallax
Waggoner, James N.	The Fireside in Outer Space	4	1962	astronaut, hospitable, isolation, cycle, life, spaceship
Richardson, Robert S.	The "End of the World" at the Griffith Observatory	5	1962	pseudoscience, world, GO, Earth, astrology, India
News Release from Caltech	Astronomical News from Caltech	5	1962	Moon, Sun, surface, atmosphere, Jupiter, radiation, belt, Supernovae
Schaal, Marilyn W.	The Mira Variables	5	1962	Mira, variable, diameter, spectrum
Wylie, Paul E.	Terrestrial Latitude: And The Size and Shape of the Earth	6	1962	latitude, degree, equator, zenith, survey, distance, geodetic
Cleminshaw, C. H.	Gravity and Space Travel	6	1962	gravity, space, travel, equation, orbit, Newton
Chilton, Lewis	The Amateur Astronomer's Telescope	6	1962	amateur, telescope, mirror, observe, sky
Richardson, Robert S.	Some Recollections of Edison Pettit (1889-1962)	7	1962	Pettit, Wilson, Moon, eclipse, temperature, Mars
Oriti, Ronald A.	New Meteorite Found	7	1962	meteorite, GO, Twenty- Nine Palms
Cleminshaw, C. H.	Jupiter's Satellites	8	1962	Jupiter, satellite, moons, perihelion, opposition
Wylie, Paul E.	What is Ephemeris Time?	8	1962	time, sidereal, Sun, clock, rotation, Earth, revolution, ephemeris
Richardson, Robert S.	Maybe You'll Like it On The Moon!	8	1962	Moon, fiction, live, life
News Release from JPL	Mariner Spacecraft	9	1962	Mariner, spacecraft, Venus, instrument, experiment, Atlas
Cleminshaw, C. H.	Two Great Siberian Meteorites	9	1962	Soviet Union, Siberia, meteorite, GO, shower, Tunguska
Etheridge, Dale A.	Why Go Into Space?	9	1962	Space, Why, electronic, science, human, machine
Richardson, Robert S.	Lost on the Moon?... How to find yourself	10	1962	Moon, direction, location, substellar, point, position
Roques, Paul E.	The Discovery of a New Variable Star	11	1962	variable, discovery, flare, drift, telescope, automatic, sequencing, system

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Eastman, Jack	Report on the 14th Annual Western Amateur Astronomers Convention	11	1962	amateur, convention, Western, Hawaii
Richardson, Robert S.	The Temperature of Venus	11	1962	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.	Which Polaris Do You Mean?	12	1962	Polaris, North Star, north pole, Neptune, Uranus, rotation
News Release from Caltech	Lunar Night Temperatures	12	1962	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
Seaborg, Glenn T.	The Creation of a Scientist	2	1963	Edison, talk, levels, needed, scientist, underestimate
Cleminshaw, C. H.	The Paths of Three Asteroids	2	1963	asteroid, path, sky, observe, 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
News Release from Caltech	Four Supernovae Found in One Week	4	1963	supernovae, telescope, 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
Richardson, Robert S.	The “Stolons” of Mars	5	1963	canal, Mars, pseudo, alien, stolon
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?	7	1963	Sun, moon, eclipse, observe, time, GO
Roques, Paul E.	It’s Time to Clean Your Telescope Lens	7	1963	telescope maintenance
News Release from Caltech	Water Vapor on Mars	7	1963	Mars, water, atmosphere

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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
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

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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,
-	Ranger's Pictures of the Moon	9	1964	Moon, Ranger, Atlas, acceleration, gravity
Cleminshaw, C. H.	John Goodricke	10	1964	Goodricke, Algol, binary, Delta, Cephei, variable
News Release from JPL	Mariner Mars Spacecraft	10	1964	Mariner, spacecraft, Mars, 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 Fairbanks, John	Gravity Gradient Attitude Control	10	1964	satellite, attitude, spin, gravity, gradient
Waggoner, James N.	Progress for Safer Manned Spaceflights	11	1964	life, atmosphere, gas, pressure, weight, radiation, temperature, psychological
Richardson, Robert S.	The Length of a Planet's Day	11	1964	rotation, day, length, Jupiter, Cassini, ephemeris
Etheridge, Dale A.	Astronomy in the Modern High School	11	1964	education, high school, astronomy, textbook
News Release from JPL	Mission to Mars	12	1964	Mariner, Mars, temperature, television, occultation, radiation, dust
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
-	Comet News from Palomar	1	1965	comet, Carbon, contain, rare
News Release from JPL	Jupiter's Magnetic Field	1	1965	Jupiter, magnetic, field, observe
Cleminshaw, C. H.	Finding North from Polaris	2	1965	Polaris, north, latitude, compass
Richardson, Robert S.	Why Did Isaac Newton Miss the Dark Solar Lines	2	1965	Newton, spectrum, dark line, Wollaston, Kirchhoff
Cleminshaw, C. H.	The Five Brightest Planets	3	1965	Mercury, Venus, Mars,
-	Martian Target Areas	4	1965	Mars, Mariner
Cleminshaw, C. H.	Your Weights on the Moon and Planets	5	1965	GO, weight, Moon, Mars, Jupiter, Earth, exhibit
News release from Caltech	New Radio Antenna	5	1965	NSF, radio, telescope
Cragg, Thomas A.	Telescopic Resolution of Fine Detail	5	1965	telescope, resolution, detail, equation
Alter, Dinsmore	The Alphonsine Area	6	1965	NASA, Ranger, Moon, observe, Ptolemaeus, crater
News Release from Caltech	Faint Ring Around Spiral Galaxy M82	6	1965	M82, telescope, photograph, spiral, galaxy, ring

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Eastman, F. Jack	The Telescope, its Principle and Use	7	1965	telescope, focus, magnitude, length, refract, reflect, photometer
News release from Caltech	White Dwarf Stars	7	1965	white dwarf, observatory, Hyades
News Release from Caltech	Quasars as Pulsating Stars	7	1965	Quasar, nucleus, pulsar, energy
Hall, Leon	The Tesla Coil	8	1965	Tesla, coil, GO, works, diagram, lightning, exhibit
Cameron, Winifred Sawtell	An Appeal for Observations of the Moon	8	1965	observe, moon, NASA, amateur
-	Initial Scientific Interpretation of Mariner IV Photography	9	1965	Mars, crater, Mariner, picture
News Release from Caltech	The Surface Temperature of Venus	9	1965	Venus, temperature, surface, observe
News Release from Smithsonian	Comet Break-ups Tied to Structural Defects	9	1965	comet, break, up, defect, ice, snow
Oriti, Ronald A.	Earthquakes	10	1965	earthquake, tsunami, intensity, volcano, tectonic, wave, plutonic
Roth, James	Precision Globes of the Planet Mars	10	1965	globe, Mars, map
Oriti, Ronald A.	Dry Lakes and Meteorites	11	1965	lake, dry, meteorite, search
Oriti, Ronald A.	The Lucerne Valley Aerolites	11	1965	Lucerne, meteorite, aerolite, Lucerne
Cragg, Thomas A.	Seeing	11	1965	seeing, telescope, atmosphere, Wilson
Cleminshaw, C. H.	The Sun’s Daily Path Across the Sky	12	1965	zodiac, equator, zenith, sun
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

author	title	mo	year	key words
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 Occultations	9	1966	Moon, sky, observe, occultation, graze
-	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
News Release from Smithsonian	Smithsonian Scientists Report Continents on Mars	10	1966	Mars, continent, Sagan, Pollack
Oriti, Ronald A.	Comets	11	1966	comet, orbit, parabola, eccentricity, photo, nucleus, composition
Roques, Paul E.	How to Live With a Telescope	11	1966	telescope, magnification
News Release from Smithsonian	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
Oriti, Ronald A.	Meteors and Meteor Showers	12	1966	meteor, shower, igneous, luminous, water, atmosphere, comet, collision
Cleminshaw, C. H.	The Date of the Birth of Christ	12	1966	Christ, Bethlehem, Christmas, Augustus, calendar
Cleminshaw, C. H.	The Rotation of Venus	12	1966	Venus, rotation, counterclockwise, period
Cleminshaw, C. H.	The Five Brightest Planets in 1967	1	1967	Mercury, Mars, Venus, Jupiter, Saturn, observe
Dunham, David W.	Lunar Occultations and Grazing Occultation in Early 1967	1	1967	Moon, occultation, observe
Cleminshaw, C. H.	Double Stars and Star Clusters in the Winter Sky	2	1967	double star, ascension, Gemini, Castor, Dog, Sirius, cluster, Hyades
News Release Palomar	New Photographic Emulsion	2	1967	photography, Palomar, emulsion, new
News Release JPL	Interplanetary Billiards System May Propel Spacecraft of 1970's	2	1967	gravity assist, spacecraft, Jupiter
Cleminshaw, C. H.	Christmas days and Easter dates	3	1967	Christmas, Easter, calendar, leap year, Gregorian
Russell, John A.	Education for the Frontier	3	1967	education, frontier, space, Ptolemy, contact

author	title	mo	year	key words
-	The Day of Two Noons	4	1967	railroad, time, standard, clocks, uniform
Oriti, Robert A.	Size and Distribution of the Lunar Craters	4	1967	Moon, crater, size, distribution
Oriti, Robert A.	The Origin of Lunar Craters	5	1967	Moon, crater, origin, meteor, volcano, tectonic
News Release from Caltech	New Light on Quasars	5	1967	quasar, light, diameter, nucleus
Oriti, Robert A.	Tektites	6	1967	tektite, glass, silica, liquid, splash, meteor, moon
-	Surveyor Spacecraft	6	1967	Surveyor, Moon
Rhodes, Lynwood Mark	The Man who Reached For Space	7	1967	Goddard, Verne, rocket, New Mexico, military
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	Alternate Interpretations of the Orientale Basin	8	1967	Orientale Basin, Orbiter, asteroid, Moon, volcano, impact
News Release from Caltech	The Need For More Large Telescopes	9	1967	telescope, Southern Hemisphere, telescope
News Release from Caltech	New Radio Telescope	9	1967	radio telescope, Owens Valley
Cleminshaw, C. H.	Navigational Stars	9	1967	constellation, star, navigate, 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
Oriti, Ronald A.	Anomalous Sounds	11	1967	hear, Aristotle, sonic, anomalous, ethereal, meteor, fireball
Cleminshaw, C. H.	Helium, The Sun Gas	11	1967	Helium, Sun, discovery, Newton, Lockyer, spectrum
News release from Palomar	Sunspot Activity on the Stars	11	1967	star, sun, spot, Helium, convection
Roques, Paul E.	The Extinction Photometer in 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
Oriti, Ronald A.	Light and Life	2	1968	light, life, Sun, spectrum, radiation, ultraviolet, infrared, gamma
Cleminshaw, C. H.	The First Ten Years of the Space Age	3	1968	United States, Soviet Union, Sputnik, Pioneer, Echo, NASA, Mercury
Cleminshaw, C. H.	Eclipses	4	1968	eclipse, Moon, Sun, shadow, total
Oriti, Ronald A.	Music in the Planetarium	4	1968	GO, Music
Oriti, Ronald A.	Why I am Going to the Moon	4	1968	Moon, Krutch, Soviet Union, United States
News Release from Palomar	New Solar Observatory	4	1968	Sun, observe, telescope, solar

author	title	mo	year	key words
Cleminshaw, C. H.	George Ellery Hale (1868- 1938)	5	1968	Hale, Yerkes, Observatory, Wilson, telescope
Oriti, Ronald A.	Icarus comes Near	5	1968	asteroid, Ceres, Icarus,
Oriti, Ronald A.	Times of Meteorite Fall	6	1968	meteorite, asteroid, number, comet
News Release from JPL	Antarctic Soil Studies	6	1968	Antarctic, soil, microorganism
Oriti, Ronald A.	Tektites - Glass from the Moon?	6	1968	Moon, tektite, glass, meteor, impact
News Release from JPL	Planetary Landing Craft	6	1968	Mars, land, craft, probe, test
Mihalas, Larry	The Particle and Wave Duality of Light	6	1968	light, particle, wave, Einstein
Oriti, Ronald A.	The Northern Lights	7	1968	Northern Lights, aurora, radiation, sun, magnetic, pole, wind
News Release from Caltech	Pulsars	7	1968	Pulsar, radio, observatory
-	The Value of the Space Program	7	1968	Humphrey, award, United States, moon
News Release from JPL	Mariner ‘69 Fact Sheet	7	1968	Mars, Mariner, probe
Lange, Erwin F.	Oregon’s Moon Country	8	1968	Oregon, moon, Surveyor, Crater Lake, volcano
News Release from Caltech	Dr. Zwicky Retires	8	1968	Zwicky, retire
Cleminshaw, C. H.	Transits of Venus	9	1968	Venus, moon, Mercury, transit, Horrocks, observe
News Release from Palomar	Prediction of Solar Flares	9	1968	solar, flare, sun, prediction
News Release from Palomar	Large Solar Telescope	9	1968	Sun, telescope, revive
Johnson, Arthur W.	Occultations in Late 1968	9	1968	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
Hagar, Charles F.	The Concept of the Celestial Sphere	11	1968	celestial, sphere, Egypt, Greece, Copernicus, Galileo, Herschel, constellation
Eastman, F. Jack	Southwestern Astronomical Conference	11	1968	New Mexico, conference, university, observe, telescope
Oriti, Ronald A.	Lucerne Dry Lake Revisited	12	1968	Hartman, Lucerne Dry Lake, California, meteorite, Arizona
Oriti, Ronald A.	Sidereal Time	12	1968	sidereal, solar, day, time, equinox
Cleminshaw, C. H.	A Triple Conjunction of Jupiter and Uranus	12	1968	Jupiter, Uranus, Mars, conjunction, Virgo
News release from JPL	JPL Radar Indicates Icarus tiny, Very Rough	12	1968	asteroid, Icarus, radar, observe
-	Occultations in Early 1969	1	1969	Moon, occultation, observe
Oriti, Ronald A.	The Back of the Moon	1	1969	Moon, alien, dark, crater, Clavius, Grimaldi
Cleminshaw, C. H.	Six Great Astronomers	2	1969	Hipparchus, Copernicus, Galileo, Kepler, Newton, Herschel
Oriti, Ronald A.	Apollo 8	3	1969	Apollo, Moon, Earth

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News Release from JPL	Mariner Mars '69	4	1969	Mars, Viking, Mariner, spacecraft, equipment
Oriti, Ronald A.	Life On Other Worlds	5	1969	Bruno, life, alien, star, Laplace, Kant, spectral, star, Mercury, Mars
Bunton, George W.	The Southern Cross	6	1969	Southern Cross, observe, Big Dipper, constellation
News release JPL	Irregular Pulsar	6	1969	Pulsar, irregular
News Release from Palomar	New Telescope at Palomar	6	1969	telescope, Wilson, Palomar, Caltech
News Release from JPL	Lunar Mass Concentrations	6	1969	Moon, NASA, mass, Lunar, orbiter
Hagar, Charles F.	Six Recent Planetariums of Architectural Interest	7	1969	planetarium, architecture, Dow, Calgary, Centennial, Manitoba museum, Strasenburgh, MacMillan, McLaughlin
Johnson, Arthur	Occultations - Summer 1969	7	1969	occultation, observe, Moon
Balogh, David A.	The "Observing" Climate at the Griffith Observatory (Seeing Conditions at the 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
Etheridge, Dale A.	The Dawn of Astronomy	10	1969	Gizeh, Egypt, Cheops, Stonehenge, Hawkins, Callanish
Johnson, Arthur	Occultations in Late 1969	10	1969	Moon, occultation, observe
Etheridge, Dale A.	Meteor Observing	11	1969	meteor, observe, count, shower, sporadic, photography, Perseid
Science Service Mail	"Travel to the Moon by the Year 2050: Princeton" Astronomer Predicts Space Travel Surprisingly Soon Year 2050: Princeton	11	1969	predict, future, 1930, Moon, space, travel
Roques, Paul E,	The Death of a Giant	12	1969	GO, moon, model
Cragg, Thomas A.	The Hertzsprung-Russell Diagram	12	1969	Hertzsprung, Russell, diagram, class, variable, giant, dwarf
Kaufmann, William J.	Quasars - The Most Remarkable Objects Ever Discovered	1	1970	Jansky, quasar, Hydrogen, redshift, gravitational, cosmology, Doppler, Hubble
Johnson, Arthur	Occultations in Early 1970	1	1970	Moon, occultation, observe
-	An 1874 Textbook of Astronomy	1	1970	textbook, definition, terms, observe, example
Oriti, Ronald A.	Extraordinary Naked-Eye Observations of the Planets	1	1970	Herschel, Uranus, Lemonnier, Galileo, Brahe, observe, naked eye, Venus, Jupiter
Miller, William C.	Two Prehistoric Drawings of Possible Astronomical Significance	2	1970	Navajo, Arizona, Indian, draw, Crab, supernova, cave
News Release from Smithsonian	Eclipse of the sun for North America in March 1970	2	1970	eclipse, sun, Moon, total, North America, observe
Roques, Paul E.	The Good Old Days?	2	1970	Wilson, trail, horse

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Richardson, Robert S.	“Acquiring Canopus”	3	1970	Canopus, observe, atmosphere, politic
Roques, Paul E.	Some Comments About the 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
Richardson, Robert S.	The Age of Aquarius - When?	4	1970	astrology, Aquarius, pseudoscience, zodiac, Hipparchus
Etheridge, Dale	The Evolving Planetarium: Recent Advances in Planetarium Technology	4	1970	planetarium association of Canada
Kaufmann, William J.	Pulsars (Part 2 of 2)	5	1970	Pulsars, alien, LGM, Little Green Men, Hewish, evolution, stellar, neutron, model
Livingston, Wm. C.	The Moscow Planetarium	5	1970	Moscow, Soviet Union, planetarium, Portsevsky
Oriti, Ronald A. Cragg, Thomas 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	6	1970	Pulsars, research, starquake
Mitchell, Gordon	Surveying the Sky with Binoculars	6	1970	observe, sky, binocular, Jupiter, Venus
Nixon, Richard M.	The Future of the Space Program	7	1970	NASA, Moon, Apollo, Experimental Space Station
Corwin, Harold G.	The Gregarious Galaxies	7	1970	galaxy, gregarious, cluster, distance, Hubble, constant
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	8	1970	UFO, alien, saucer, pseudoscience, space travel, observe
Friedman, Stanton T.	Rebuttal to Oriti’s Argument 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. Kaufmann, William J.	Psychological and Philosophical Perspectives on Flying Saucers	8	1970	UFO, alien, saucer, pseudoscience, observe, philosophy, psychology
DeVorkin, David	The Distance To The Hyades and the Calibration of the Hertzsprung-Russell Diagram	9	1970	Hyades, Taurus, Hertzsprung, Russell, cluster, mass, luminosity, distance, Wallerstein, Hodge

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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
Kaufmann, William J.	WZ Sagittae: An Extraordinary Ultra-Short Period Binary	10	1970	binary, period, short, Sagittae, Sge, relativity
Hetherington, Norriss S.	The Shapley-Curtis Debate	10	1970	Shapley, Curtis, debate, universe, size, galaxy, Cepheid
Corwin, Harold G.	Observational Notes on Clusters in Cygnus	10	1970	Cygnus, Northern Cross, observe, cluster, galaxy
Richardson, Robert S.	The Stars and Serendipity	10	1970	Newton, gravity, Neptune, Mars, Greenland, Walpole
News Release from Smithsonian	Three More Eclipses for North America	10	1970	eclipse, North America, Sun, Moon, observe, total
Thorne, Kip S.	The Death of A Star	11	1970	star, death, supernovae, black hole, neutron star, white dwarf, pulsar, neutrino, relativity
Latham, Philip	“The Red Star in the Face Called the Dog”	11	1970	Dog, Sirius, Ptolemy, Strindberg
Kaufmann, William J.	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
Kaufmann, William J.	The Curvature of Space and the Ohio Survey	1	1971	geometry, Euclidean, Hubble, constant, open, closed, flat, Ohio University, survey
Johnson, Arthur	Occultations in Early 1971	1	1971	moon, occultation, Sigma, Sagittarii, Tauri
Roques, Paul E. Whitt, Patricia K.	Dust Between the Planets	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	3	1971	Herschel, Kepler, three-body problem, asteroid, Hektor, Trojan
Keller, Charles F.	Airborne Observations of the 1970 Total Solar Eclipse	3	1971	observe, Sun, moon, eclipse, total, airplane
Corwin, Harold G.	Observational Notes on the Local Group	3	1971	Milky Way, galaxy, Local Group, cluster

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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.	The Leonid Meteor Shower	4	1971	Leonid, meteor, shower, observe, Weber
Pietraszko, Philip M.	Constellations - Myth or Reality?	5	1971	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	A Brief Discussion of Red Giants and White Dwarfs	7	1971	red giant, white dwarf, Hertzsprung, Russell, Helium, Hydrogen
Hetherington, Norriss S.	Lowell’s Theory of Life on Mars	8	1971	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
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

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Wallis, Brad D. Provin, Robert	Tests of Kodak 2475 Recording Film	10	1971	film, Kodak, photography, amateur, telescope, galaxy, cluster
Corwin, Harold G.	Observational Notes on the Leo I Cloud	10	1971	Cloud, Leo 1, observe, cluster, elliptical, galaxy
Reaves, Gibson	The Rise and Fall of Astrology	11	1971	astrology, sign, house, zodiac, Ptolemy, pseudo
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
Duncan, Douglas	Schmidt Telescope and Modern Astronomy	1	1972	telescope, Schmidt, Palomar, refractor, design
Westbrooke, William J.	Lunar Occultations of the Planets	1	1972	moon, occultation, Bessel, Aldebaran, Saturn, Mars
Kaufmann, William J.	The Foundations of General Relativity	1	1972	Einstein, relativity, general, special, space time, vector, geodesic
Dickinson, Terence	Beneath the Clouds of Venus	2	1972	Venus, atmosphere, Mariner, clouds, radio, telescope, rotation
Richardson, Robert S.	A Hole in Hermes?	2	1972	Mercury, hole, Verne, Journey to the Center of the Earth, fiction, gravity
Roques, Paul E.	Across Twenty-Two Miles of Canyon	2	1972	survey, Michelson, light, distance, Wilson, San Gabriel
Waldron, Richard	The Legends of Orion	3	1972	Orion, constellation, Taurus, myth, religion, Indians, Egypt, Greece, Hindu
Kaufmann, William J.	Experimental Tests of Relativity	3	1972	Einstein, relativity, test, proof, Mercury, orbit, gravity, redshift
Roques, Paul E.	Sundogs, Moondogs and Halos	3	1972	Cirrus, clouds, snow, crystal, shape
Etheridge, Dale A.	Apollo 16 - Pioneer F	3	1972	Apollo, Moon, land, Pioneer, Jupiter
Kaufmann, William J.	The Meaning of the Redshift	4	1972	Doppler, light, distance, Hubble, galaxy, constant, law, cosmology, gravity
Roques, Paul E.	See the Universe Expand in One Easy (?) Step	4	1972	expand, universe, spectrograph, galaxy, spectrum, cosmology
Wood, Gil	The Backyard Mariner: Lawnchair Travels in Time and Space	4	1972	imagination, moon, Copernicus, Andromeda, Praesepe, travel
Bunton, George W.	Reminiscences of Early Times at Griffith Observatory	5	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
Wheeler, Burritt	How I wonder What you are?	6	1972	star, Milky Way, comet, observe
Kaufmann, William J.	Gravitational Waves	6	1972	Einstein, relativity, gravity, waves, light, electromagnetic, observe, black hole
Hixson, Robert L.	Telescope Gymnastics	6	1972	telescope, Moon, sun, observe, amateur, Mars
Jakosky, Bruce	Eratosthenes and the 7 degree 12' of Alexandria	6	1972	Egypt, circumference, Eratosthenes, sun, measure

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-	Portrait of an Observatory	7	1972	Lick observatory
Kaufmann, William J.	Wormholes and White Holes	7	1972	photon, sphere, Einstein, black hole, wormhole, Rosen, relativity
Wallis, Brad	Some Interesting Configurations as Jupiter Moves through Sagittarius	7	1972	Jupiter, Sagittarius, nebula, observe, telescope
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
Kaufmann, William J.	The Creation of the Universe	8	1972	Big bang, create, steady,state, theory, Hubble, law, background radiation, quasar, cosmology
Roques, Paul E.	The Picture in Astronomy	8	1972	color, filter, visual, spectrum, photography
Reaves, Gibson	Columbus Thought It Was Small	9	1972	Columbus, Earth, flat, Isabella, Greece, Spain
Kaufmann, William J.	Galaxies and Quasars	9	1972	nebula, galaxy, Cepheid, Hubble, Seyfert, Centaurus, theory
Corwin, Harold G.	Observational Notes on the Canes Venatici II Cloud	9	1972	Milky Way, Canes Venatici, cluster, galaxy
Alter, Dinsmore	Comets and People	10	1972	Halley, comet, ghost, media, pseudoscience, voodoo
Verschuur, G. L. Turner, B. E.	Radio Astronomical Observations of Interstellar Molecules	10	1972	radio, interstellar, molecule, Hydrogen, 21 centimeter radiation, spectrum
Hollister, C. Warren	Appearance and Reality in the History of Science	11	1972	Copernicus, Greece, cosmos, Archimedes, Hipparchus, theory, law, observe, Ptolemy
Mccray, Richard A.	The New Cosmos (Part 1 of 2)	11	1972	brightness, Brahe, distance, Cepheid, galaxy, Andromeda, spectrum, white dwarf
Mccray, Richard A.	The New Cosmos (Part 2 of 2)	12	1972	x-ray, gamma-ray, infrared, radio, pulsar, radiation
DeVorkin, David H.	A Versatile Orrery	12	1972	orrery, design, construction
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
Wallis, Brad D.	Photographing a Total Solar Eclipse	6	1973	Kodak, photograph, amateur, eclipse, exposure, time, equation
Hall, Donald E.	The New Golden Age of Astronomy	1	1973	Golden, Age, astrophysics, Hubble, x-ray, Apollo, Weber, Galileo
DeVorkin, David H.	Questionnaire for Telescope and Accessory Evaluation and Performance	1	1973	questionnaire, amateur, telescope, buy, review, survey
-	Mars - Mariner 9	1	1973	Mars, Mariner, photo, surface
Irwin, John B.	The Case of the Carpenter's Chronometers	2	1973	Centurion, Anson, Britain, warship, Harrison, navigation, time
Krupp, E. C.	High Energy and Distant Places: Far from the Sirens	2	1973	quasi, stellar, redshift, radio, Kellerman, interferometry, galaxy

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-	Mariner 9 Mission Summary	2	1973	Mariner, Mars, mission, photo, orbit
Krupp, E. C.	That Lucky Old Sun Quits Rolling Along	2	1973	Copernicus, anniversary, stamp, Poland, Church, De Revolutionibus
Schueler, Carl F.	Low - Temperature Astrophysics	3	1973	Weber, Einstein, gravity, radiation, temperature, Fairbank, diagram, accelerometer, wave, detector
Ridpath, Ian	The Stars Always Change	3	1973	star, super, nova, binary, eclipsing, variable
Wallis, Brad D.	Astro-Archaeology (Part 1 of 2)	3	1973	ancient, archaeology, Egypt, Lockyer, Hipparchus, precession, temple
Faulkner, John	The Recurrent Novae: Binary Stars in Mortal Embrace	4	1973	novae, recurrent, binary, Crab, Sagittae, Walker, Herculis, Roche, limit, Kraft, Crawford, radiation, model
Wallis, Brad D.	Astro-Archaeology (Part 2 of 2)	4	1973	Stonehenge, Britain, archaeology, Aubrey, Hawkins, solstice, summer, alignment, Mayan, Chichen, Itza
Krupp, E. C.	Underneath the Mayan Moon	4	1973	Maya, Yucatan, civilization, calendar, Venus, eclipse, table
Heaton, Harold I.	A Montage of Ancient Histories	5	1973	Galileo, telescope, Darwin, Jeans, planet, Earth, pulsar, Bell, Barnard, hydrogen, Townes, Miller, progress
Davis, William F.	Proper Alignment of the Equatorial Mounting	5	1973	amateur, telescope, equatorial, mount, instruction
Krupp, E. C.	Earthquakes and Mooncakes	5	1973	China, Shu Cheng, cosmology, Heng, geometry, seismology
Waldron, Richard	The Kingdom of Amon-Re: The Egyptian Sky, 3,000-330 B.C.	6	1973	Egypt, myth, creation, god, Amon-Re, Nile, scarab, beetle, Aten, sun, moon, evil, Mars, Venus
Johnson, Thomas J.	Color Astrophotography with Small Instruments	6	1973	color, photography, amateur, focal, length, exposure
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
Roberds, Wesley M.	On Time	8	1973	day, time, clock, hour, accurate, Flamsteed, observatory, Greenwich, Harrison, navigation, crystal
Dickinson, Terence	Mission to Mercury	8	1973	Mercury, mission, Mariner, density, diameter
Little, Robert T.	The Case for Aperture	8	1973	telescope, amateur, aperture, size, detail
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

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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
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, Scurlock, 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 Iopener	1	1974	Jupiter, radiation, plasma, synchrotron, radio, emission, Iopener, diagram
Westbrooke, William J.	The Pursuit of Minor Planets	1	1974	Hencke, asteroid, belt, Trojan, mass, Ceres, Pallas, Vesta, Mercury, search, occultation
Krupp, E. C.	In Search of The Ancient Astronomers: A Review of 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,
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

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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
Knight, Pamela R.	Archeological Astronomy and Astronomical Archeology	3	1974	archaeology, ancient, supernova, Crab, China, record, Stonehenge, Hawkins
Halverson, Craig Nichiporuk, Mirjana	On Predicting The Brightness of Net Comets or Why Did Kohoutek Faint?	3	1974	Kohoutek, comet, perihelion, brightness, sky, observe, density, faint
Wallis, Brad D.	Another Alternative to the Guiding Problem	3	1974	telescope, photograph, focal, length, eyepiece, amateur, equation, magnification, microscope
Kaufmann, William J.	Ergospheres And Rotating Black Holes	3	1974	Kerr, Einstein, rotating, black, hole, Schwarzschild, ergosphere, flashbulb
Krupp, E. C.	The Von Daniken Phenomenon	4	1974	Daniken, Chariots of the Gods, pseudoscience, Nazca plain, ancient, astronauts, symbol, Tiahuanaco, Maya, Sumerian, archaeology, Bible, Egypt, Peru, Ecuador
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
Roques, Paul E.	How to Live with A Telescope	4	1974	amateur, hobby, telescope, storage, maintenance
Malville, J. McKim	Time's Arrow and the Expansion of Space	5	1974	order, universe, cosmology, thermodynamic, paradox, Olbers, expansion, photon, temperature, time, equilibrium
Bregman, Joel N.	Spiral Galaxies, the Pinwheels of the Universe	5	1974	galaxy, Hubble, ellipsoid, spiral, structure, inner, outer, composition, interstellar, medium, model, star, formation
Flannery, Brian P.	Cygnus X-1, A Black Hole Discovered?	5	1974	black hole, Cygnus, Schwarzschild, stellar, evolution, formation, x- ray, source
Whitehead, A. Bruce	The Photomosaic Globe of Mars	6	1974	Mariner, Mars, mission, globe, assembly, photomosaic, build, photo
Evans, Neal J. Zuckerman, Benjamin M.	A Modern Look at Star Formation	7	1974	star, formation, nebula, Star Trek, molecule, infrared, observation, cloud, protostar
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

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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
-	Amateur Astrophotography	12	1974	amateur, photo, Moon
-	Index to Volume 38, 1974	12	1974	GO, index
Young, Arthur	The Structure of Scientific Thought	1	1975	physics, Newton, intuition, evidence, Constitution, Laplace
Richardson, Robert S.	Are there "Bears" On Mars?	1	1975	Mars, life, water, bear, Tardigrada
Winkler, Louis	Astronomical and Nonmystical Aspects of Horoscopy	1	1975	horoscope, zodiac, validity, destiny, sign, house, ecliptic, Greece, Lilly, astrology,
Krupp, E. C.	Mourners for the Moon	1	1975	Moon, Druid, Kiaran, Callanish, stone, Megalithic, mourner
Upton, Edward K. L.	The Great Earthquake Hoax	1	1975	Jupiter, effect, San Andreas, earthquake, alignment, sunspot, planet, Pluto
-	Amateur Photography	1	1975	Amateur, photo
Hollister, Warren	Giordano Bruno and the Infinite Universe	2	1975	Bruno, monk, burn, church, Renaissance, Italy, heliocentric, Copernicus, infinite, universe
Staal, Julius D. W.	The Prehistoric Stars of Imperial China	2	1975	China, Shu King, stars, astronomy, Yao, constellation, mansion, paranatellion, tortoise, dragon, bird, tiger

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Cleminshaw, C. H.	Some of History's Great Astronomers	3	1975	GO, statue, Monument, Hipparchus, observation, position, object, sky, motion, Copernicus, Ptolemaic, Galileo, telescope, Kepler, law, Newton, gravity, law, motion, Herschel, Uranus, satellite
Richardson, Robert S.	Casual Comments on Exact Measurements	3	1975	measurement, standard, Kelvin, Henry, distance, meter
H., David Menke, JoAnn	Life On The Planet Jupiter	3	1975	life, Jupiter, condition, atmosphere, pressure, temperature, evolution
Wylie, Paul E.	Deriving the Law of Gravitation	3	1975	gravity, law, Newton, motion, equation
Cleminshaw, C. H.	The Julian Period	4	1975	calendar, Julian, Caesar, Scaliger, period, cycle, Moon
Krupp, E. C.	The Ring at Castle Rigg	4	1975	Britain, stone, megalithic, Castle Rigg, Carles
Oriti, Ronald A.	How to Recognize a Meteorite	4	1975	meteorite, identification, stone, type, iron, achondrites, chondrites, ataxites, pallasite, steps
Whelan, John	Discovering Black Holes by Optical Observations of X-Ray Binaries	4	1975	Black Hole, observe, Einstein, x-ray, Centaurus, velocity, radial, Cygnus
Wheeler, J. Craig	Black Holes, Neutron Stars, And the Green, Green Grass	5	1975	explode, stars, neutron, black hole, grass, Big Bang, dwarf, mass, pulsar
Krupp, E. C.	Astronomical Msings (sp)	5	1975	Greek, muse, Harvard College Observatory, Pickering, women
Michalitsanos, Andrew G.	The Sun's Turbulent Atmosphere	6	1975	Sun, atmosphere, spectrum, temperature, chromosphere, magnetic, field, sunspot
Evans, David S. Moffett, Thomas J.	Spots, Magnetism and Fireworks: The Story of the Red Dwarf Flare Stars	6	1975	Dwarf, Ceti, flare, star, Lovell, radio, light, curve, spot
Irwin, John B.	The Case of the Back and Forth Passenger	7	1975	Earth, motion, passenger, ship, Newton, rotation, spin, galactic, motion, solar
Hawley, Steven A.	The Planetary Nebulae - An Astronomer's Standard Candle?	7	1975	nebula, Herschel, planetary, ring, spectrum, velocity
Silk, Joseph	The Evolution of the Universe: A Layperson's Guide to the Big Bang	7	1975	Big Bang, evolution, cosmology, Hubble, expand, gravity, thermonuclear, Gamov, black body radiation, black hole, microwave, collapse, expand
Mulholland, J. Derral	The Search for Time	8	1975	time, standard clock, Newton, Copernican, Earth, sun, rotation, Greenwich, gravity clock, atomic
Sperling, Norm	Earth Science for Martians	8	1975	Earth, Moon, gravity, center of mass, atmosphere, Mars, life
Verschuur, G. L. (sp)	Hynek and the U.F.O. Controversy (A Commentary)	8	1975	Hynek, UFO, alien, life, Condon, bad, eyewitness
Upton, Edward K.	The Summer Milky Way	8	1975	Milky Way, constellations, star, observe, sky, telescope, binoculars
Gribbin, John	It's The Real Thing (A Reply)	8	1975	The Great Earthquake Hoax, Jupiter Effect, sunspot, futurologist
Verschuur, Gerrit L.	Stardeath	9	1975	supernova, Taurus, Chinese, observe, sky, ozone, destroy, cosmic ray

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Oriti, Ronald A.	A Photographic Expedition to the Arizona Meteorite Crater	9	1975	Arizona, meteorite, crater, main mass, length, diameter
Krupp, E. C.	Bisecting the Year	9	1975	calendar, solar, equinox, Stonehenge, Thom
Roques, Paul E.	Astronomical Instrument Care: Part 1 - The Eyepiece	9	1975	eyepiece, care, clean
Crutcher, Richard M.	The Origin and Evolution of the Solar System	10	1975	origin, evolution, Evans, Zuckerman, rocky, gas, planet, Pluto, Moon, formation
Upton, Edward K. L.	The Farthest Planet	10	1975	planet, farthest, Planet X, Pluto, Neptune, orbit
Krupp, E. C.	Long Meg and Her Daughters	10	1975	Britain, stone, Long Meg, summer, solstice
Roques, Paul E.	Astronomical Instrument Care: Part 2 - The Objective	10	1975	objective lens, cell, mirror, removal, care, clean
Tinsley, Beatrice M.	Expanding Universe	11	1975	cosmology, universe, expand, Hubble, Milky Way, Big Bang
Oriti, Ronald A.	The Tunguska Event	11	1975	Russia, Tunguska, asteroid, Siberia, impact, comet, antimatter, nuclear, black hole, carbonaceous chondrite, hypothesis
-	Planetarium Directors' Meeting	11	1975	GO, photo
Oriti, Ronald A.	New Comet Found	11	1975	Comet, 1975h, Kobayashi-Berger-Milon
Roques, Paul E.	Astronomical Instrument Care: Part 3 - Collimation	11	1975	objective lens, clean, care, collimation, refractor, reflecting
Upton, Edward K. L.	The Night of the Nova	11	1975	Nova, Cyngi, 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 Wilkinson, Althea	Solar Activity and its Influence on Weather	1	1976	Sun, solar activity, weather, sunspot, Hale, Allen, belt, climatic, Brown
McCarthy, Terrence M.	Where do We Go From Here? Thoughts on the Proposed Colonization of Space	1	1976	Earth, people, space, colonization, pollution, L5, O'Neill, NASA, Model 1
Koppany, Robert	The Astrolabe	1	1976	astrolabe, time, height, compass, equinox, solstice, mater, rete, tympanum, alidade, Ptolemy, Moslem
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, ellipse
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

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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 W. Ciotti, Joseph E.	Stonehenge A Fifty-Six Year Eclipse Cycle?	4	1976	Stonehenge, Hawkin, eclipse, cycle, carbon- dating, tropical year, equation, lunation
Mayer, Ben	From the Wastepaper Basket to the Smithsonian	4	1976	Mayer, discovery, ARCTU, meteor, tracking, camera, automatic, nova, Cygni
Mayer, Ben	You Can Take it With You	4	1976	ARTU, SCAMP, Self-Contained Astronomical Mobile Platform, trailer, desert
-	The 1976 Winners	5	1976	GO
Stern, David P.	Beyond the Radiation Belt	6	1976	radiation, belt, magnetic field, Earth, Sputnik, Van Allen, cosmic radiation, magnetism, flare
Walter, R. Kenneth	Trouble Spots on the Sun	6	1976	Wittenberg, sun, sunspot, Welser, inquisition, motion, surface, Wilson, magnetic field, theory, Herschel
Pasachoff, Jay M.	Quasars	6	1976	Quasars, quasi stellar, radio source, Sandage, Schmidt, velocity, red shift, spectrum, Hubble, ultraviolet, energy
Krupp, E. C.	Megalithic Eggs	6	1976	Britain, circle, stone, Thom, Megalithic, geometry
Bell, Trudy E.	From the Jaws of Victory: The Checkered Career of Isaac Greenwood	7	1976	Greenwood, Harvard, Newton, Europe, professor, quadrant. 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
Snow, Theodore P.	The Interstellar Medium: Much Ado About Nothing?	9	1976	interstellar medium, matter, universe, dust, spectrum, hydrogen, Copernicus, absorption, element
Sever, Thomas Lee	The Obsession with the Star Sirius	9	1976	Sirius, Dogon, Egypt, Mexico, China, Babylon, Maya, Indian, god, temple

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Krupp, E. C.	On Not Taking it Seriously	9	1976	Dogon, Sirius, Temple, The Sirius Mystery, cosmology, Oannes
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
Oriti, Ronald A. Oriti, Barbara E.	Earthquakes, Moonquakes and Starquakes (Part 1 of 2)	10	1976	earthquake, starquake, moonquake, magnitude, intensity, Wood- Neumann scale, faults
Duncan, Douglas K.	Approaching the Speed of	11	1976	speed, light, Roemer,
Hawley, Steven A.	Light			Bradley, measure, method, terrestrial, Michelson, experiment
Oriti, Ronald A. Oriti, Barbara E.	Earthquakes, Moonquakes and Starquakes (Part 2 of 2)	11	1976	earthquake, moonquake, starquake, tectonics, prediction, trigger, pulsar
Krupp, E. C.	An Elliptical Question	11	1976	elliptic, equation, eccentricity, Britain, Thom, Megalithic, geometric, stone
Zeilik, Michael	The Big Bang and the Birth of Galaxies	12	1976	Big Bang, galaxy, Einstein, temperature, cloud, gravity, Jeans length, turbulence
Rodman, Robert	A Linguistic Note on the Christmas Star	12	1976	Christmas, star, Greek, astar, constellation, linguistic
Van Millingen, B. A.	Astronomy and Tumuli Surrounding Stonehenge - An Investigation	12	1976	Stonehenge, Britain, Thom, Tumli, coordinate, azimuth, histogram
-	Index to Volume 40, 1976	12	1976	GO, index
Rubin, Alan Edward	The Great Depression	1	1977	meteorite, asteroid, crater, Arizona, siderite, Barringer, fossil
Sanford, John	A Proposed Supernova Identification Atlas	1	1977	supernova, atlas, identification, handbook
Jones, Robert E.	Exposures for Unguided Field Photography	1	1977	observe, photography, camera, equation
Jones, Robert E.	Printing Star Field Photographs	1	1977	observe, photography, film, print, equation
Irwin, John	The Case of the Peculiar Pickets	2	1977	spectroscopy, spectrogram, absorption, Hydrogen, element
Koppany, Bob	Nikola Tesla and His Famous Coil	2	1977	Tesla, coil, GO, ball, New York, Colorado, exhibit
Barton, Mark	The Tesla Coil: Its Care and Feeding	2	1977	Tesla, coil, GO, exhibit, create, guide
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
Berger, Benita	Seventeenth Century Discoveries the Impact of the “New Astronomie”	4	1977	Kepler, Galileo, Copernicus, orbit, Donne, center, Earth, telescope
Verschuur, Gerrit L.	Starfolk	4	1977	life, alien, search, Big Bang, Hydrogen, radio, contact

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Gribbin, John	Thiotimoline and Spoonbending: the Tachyonic Link	4	1977	Thiotimoline, Asimov, pseudo, tachyon, Geller, cosmic, ray, Einstein, Relativity
-	The 1977 Winners	5	1977	GO
Upton, Edward K. L.	The Leonids Were Dead, They Said	5	1977	Leonid, asteroid, meteor, observe
Krupp, E. C.	Cahokia: Corn, Commerce and the Cosmos	5	1977	Itza, Caracol, Cahokia, Illinois, Indian, city, agriculture
Gribbin, John	How “Normal” is Our Sun?	6	1977	sun, milky way, fusion, nucleosynthesis, neutrino, spot
Reaves, Gibson	The Influence of Nonscientific Literature on the Development of Astronomy	6	1977	Bible, Copernicus, Laplace, Buck Rogers
Mayer, Ben	A Flip-top Observatory	6	1977	observatory, build, telescope, observe, guide
Chapin, Seymour L.	Cassini IV at the Paris Observatory, 1785-1793: An Institution revolutionized & Revolutionized	7	1977	Cassini, France, Louis XIV, Royal Observatory, revolution, Lakanal
Krupp, E. C.	The von Daniken Phenomenon	7	1977	pseudoscience, Daniken, Inca, Nazca, Indian, alien, Maya, Chichen, Bible, Egypt
Ball, Michael T.	Installation of Your New Planet	8	1977	planet, guide, create, eccentricity, orbit, precession
Krupp, E. C.	Lords of the Rings	8	1977	Rings, Saturn, Uranus, Neptune, Elliot, Herschel
Lunan, Duncan	A Dust Cloud Orbiting the Sun?	8	1977	Kepler, Sun, cloud, volcano, observe
Krupp, E. C.	The Observatory of Kukulcan	9	1977	Mexico, Maya, Chichen Itza, symbol, myth, religion, Mesoamerica, Kukulcan, Caracol, Indian
Irwin, John B.	The Case of the Celestial Shadows	10	1977	Moon, Sun, Greece, Earth, Aristarchus, Aristotle, Eratosthenes
Mayer, Ben	Cygnid Swansong: A Nova Revisited	10	1977	Cygnid Swansong, nova, observe, photography
Luckerman, Marvin Arnold	More Sirius Difficulties	10	1977	Egypt, Sirius, Dogon, Nile, Censorinus, Rome, Venus
Tucker, Wallace H.	Astronomy’s New Superstars: Supergiant Galaxies	11	1977	galaxy, Milky Way, Hubble, Local Group, x-ray
Gribbin, John	Cosmic Gushers: White Holes and the Universe	11	1977	white hole, black hole, Narlikar, Einstein, Seyfert, elliptical, galaxy
Selden, Sandra	The Ninth Annual Riverside Telescope Makers’ Conference	11	1977	GO, Riverside, telescope, create, conference
Verschuur, Gerrit L.	The Gaea Hypothesis - Our Living Planet	12	1977	Gaea, life, Lovelock, Margulis, atmosphere, plant, Venus, ozone, Sun
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
Rubin, Alan Edward	The Missing Planet	1	1978	planet, asteroid, minor planet, Piazzi, Olbers, belt, meteor

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Preston, Douglas	Descent in the Maelstrom: A Look into the Center of the Galaxy	2	1978	Milky Way, galaxy, nucleus, radiation, radio, Oort, Rougar, Sagittarius, arm, Big Bang
Layzer, David	Is the Universe Running Down?	2	1978	thermodynamic, Clausius, entropy, Newton, Boltzmann, Hubble, constant, spectra, density, open, close
Krupp, E. C.	Great Pyramid Astronomy	3	1978	Egypt, Pyramid, geometry, Cole, Smyth, sundial
Oriti, Ronald A.	Noon, Midnight - A.M. or P.M.	3	1978	meridian, Latin, Naval Observatory, standard, noon, midnight
Bell, Trudy E.	Towers Reaching to the Skies: The First American Astronomical Society	4	1978	Astronomical Society, New York, Sidereal Messenger, White, first, Jupiter, minor planet
Brugsch, Heinrich	Astronomical and Astrological Inscriptions on Ancient Egyptian Monuments (Part 1 of 18)	4	1978	Egypt, myth, god, religion
Krupp, E. C.	The Great Columbus Day Eclipse	5	1978	eclipse, sun, Moon, observe, Fairwind, cruise
Day, Mike	The Lunar Influence - Oh,	5	1978	Moon, 2001, Clarke,
Day, George	Divine Moon			calendar, Greece
Brugsch, Heinrich	Astronomical and Astrological Inscriptions on Ancient Egyptian Monuments (Part 2 of 18)	5	1978	Egypt, religion, myth, god, Pronaos, inscription, calendar
Winkler, Louis	Is Astrology Valid?	6	1978	Astrology, pseudoscience, horoscope, Greece, health, agriculture, sun, planet, moon
Brugsch, Heinrich	Astronomical and Astrological Inscriptions on Ancient Egyptian Monuments (Part 3 of 18)	6	1978	Egypt, religion, god, myth, Venus, zodiac, Mercury, symbol, constellation
-	The 1978 Winners	7	1978	GO
Bishop, Jeanne E.	The Golden Era of Theoretical Physics and the Black Box of Stellar Energy	7	1978	nuclear, fusion, physics, black box, theoretical, Kelvin, magnetic, Sun, atmosphere, Gamov, Bethe, proton, chain, evolution
Krupp, E. C.	A Cosmic Blowtorch and a Supermassive Black Hole	7	1978	black hole, galaxy, elliptical, Virgo, cluster
Bell, Trudy E.	The Grand Analogy: History of the Idea of Extraterrestrial Life	8	1978	life, Rome, alien, Aristotle, Galileo, Fontenelle, Huygens, Whewell, Shapley,
Brugsch, Heinrich	Astronomical and Astrological Inscriptions on Ancient Egyptian Monuments (Part 4 of 18)	8	1978	search Egypt, myth, god, religion, Sun, Ra, divinity
Seslar, Mike	Kohoutek in Perspective	9	1978	Kohoutek, comet, observe, Marsden
Krupp, E. C.	Something New Under the Stars	9	1978	Brackett, Pomona, Steele, observatory
Brugsch, Heinrich	Astronomical and Astrological Inscriptions on Ancient Egyptian Monuments (Part 5 of 18)	9	1978	Egypt, myth, god, religion, Moon, Dendera, Horus

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McMenomy, Christie 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
Krupp, E. C.	A Satellite on the Styx	10	1978	Pluto, satellite, Christy, observe, name
Brugsch, Heinrich	Astronomical and Astrological Inscriptions on Ancient Egyptian Monuments (Part 6 of 18)	10	1978	Osiris, moon, day, Isis, Egypt, religion, god, myth
Howell, J. Andreas	Apollo to Astrobleme	11	1978	Apollo, meteor, asteroid, Eros, observe, archetype, Earth, Wetherill
Oriti, Ronald A.	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
Brugsch, Heinrich	Astronomical and Astrological Inscriptions on Ancient Egyptian Monuments (Part 7 of 18)	11	1978	Egypt, myth, religion, god, Sun, zodiac, Dendera
Ciotti, Joseph E.	The Magi's Star: Misconceptions and New Suggestions	12	1978	Magi, Bethlehem, Christ, religion, god, birth, Christmas, astrology, Uranus
Reyman, Jonathan E.	The Winter Solstice at Pueblo Bonito	12	1978	Anasazi, Indian, Pueblo, Bonito, Chaco, solstice
Reyman, Jonathan E.	The Winter Solstice at Pueblo Bonito (Part 2 of 2)	1	1979	Mexico, pueblo, Bonito, solstice, Chacoan, Anasazi
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
Oriti, Ronald A.	The Scientific Value of Total Eclipses of the Sun	2	1979	Sun, eclipse, moon, total, Einstein, Lyot
Brugsch, Heinrich	Astronomical and Astrological Inscriptions on Ancient Egyptian Monuments (Part 9 of 18)	2	1979	Mars, Venus, Saturn, Egypt, myth, god, Jupiter
Mosley, John	Hints on Viewing the Partially Eclipsed Sun	2	1979	Galileo, observe, telescope, Sun, eclipse
Irwin, John B.	The Case of the Invisible Center	3	1979	Copernicus, Shapley, Hubble, Milky Way, Jansky, Messier
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

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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,
Brugsch, Heinrich	Astronomical and Astrological Inscriptions on Ancient Egyptian Monuments (Part 12 of 18)	5	1979	Asimov 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
Chriss, Michael	Scientists in Wonderland: The Strange Case of Dr. Velikovsky	9	1979	Caroll, Velikovsky, cosmology, Worlds in Collision, pseudo, astrology, psychology, comet, Venus
Brugsch, Heinrich	Astronomical and Astrological Inscriptions on Ancient Egyptian Monuments (Part 14 of 18)	9	1979	Egypt, myth, god, religion, Isis, Sothis, Sirius, constellation, decanal
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

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Oriti, Ronald A.	The Bombarded Earth	11	1979	meteor, collision, Earth, Bible, Joshua, Arizona, size
Brugsch, Heinrich	Astronomical and Astrological Inscriptions on Ancient Egyptian Monuments (Part 16 of 18)	11	1979	Egypt, religion, god, myth, constellation, Decan, Xet-mu
Matilsky, Terry	The Entropy of the Universe or (!) Why They Couldn't Put Humpty Dumpty Together Again	12	1979	Humpty Dumpty, egg, chicken, entropy, Milky Way, universe, Big Bang, open, closed, cosmology
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
Finkel, David	Wormholes on the Wane	1	1980	wormhole, Einstein, relativity, black hole
Brugsch, Heinrich	Astronomical and Astrological Inscriptions on Ancient Egyptian Monuments (Part 18 of 18)	1	1980	Egypt, myth, religion, god, Hour Table, Ramses, clock
Persch, Peter	Astronomy: An Apologia	1	1980	research, public, funding, Hindsight, government, understand
Irwin, John	The Case of the Spinning Spirals	2	1980	galaxy, spiral, NGC 3031, arm, M 81, radio, island, Herschel, Maanen, Slipher, Hubble, trail, lead
Oriti, Ronald A.	Who Ever Heard of Amalthea	2	1980	Amalthea, Jupiter, satellite, Greece, Barnard
Purdum, Ginger Richardson, Robert S.	The Light from Arcturus	2	1980	Arcturus, Bible, Osler, religion, star, symbol, Sirius, Pleiades, Houseman
Bishop, Jeanne E.	Astronomy Education in the United States: Out from Under a Black Cloud	3	1980	Astronomy, education, United States, public, colony, elementary, Committee of Ten, NASA, planetarium
Oriti, Robert A.	Ganymede: Thirty Years After	3	1980	Ganymede, Jupiter, Voyager, Lowell, Mars
Maley, Paul D.	Even Asteroids May Have Moons	3	1980	minor planet, asteroid, moon, satellite, Hebe, observe, Large Space Telescope
Bell, Trudy E.	Like Christmas Snowflakes Down a Chimney: The Discovery of Aberration of Starlight	4	1980	Bradley, Molyneux, Draconis, aberration, photon, parallax, Hooke, Cassini
Zimmermann, R. Erik	Jupiter: Always a Starsmaid, Never a Star	4	1980	star, Jupiter, Voyager, brown dwarf, ideal gas, temperature, quantum mechanic, Pioneer, degenerate
Clarke, Charles G.	Griffith J. Griffith and His Park	5	1980	GO, Griffith, Santa Monica Mountain, Felis, Bell, Mowry, religion
Fentress, Stephen S.	Lost In Space	5	1980	Voyager, mission control, team, sun, track, Alpha Centauri, signal, Canopus

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McDermott, Ashley Thomas	The Eleventh Annual Riverside Telescope Makers Conference	5	1980	telescope, observe, Riverside, GO, amateur
Piini, Ernest W.	The Stonehenge Replica at Maryhill	6	1980	Hill, Stonehenge, Maryhill, Washington, Stone, Kousbaugh, replica, moon
Dryer, Ivan	Stalking the Wild Eclipse	6	1980	eclipse, Sun, moon, observe, total, India,
Gribbin, John	Waiting for the Next Ice Age	7	1980	ice age, Earth, Milankovitch, continent, drift, precession, period, oxygen
Barker, William A. Maggiora, Debra	Who Told Jonathan Swift About the Moons of Mars	7	1980	Mars, moon, Gulliver's Travels, Phobos, Deimos, Kepler, Newton, Swift
Read, Nicholas	A Capitol Planetarium	7	1980	Smithsonian, Air and Space, planetarium, Washington DC., Zeiss, Spacearium
Mims, Sam S.	Chasing Rainbows: the Early Development of Astronomical Spectroscopy	8	1980	Newton, spectroscopy, white light, refraction, Herschel, Wollaston, Fraunhofer, Doppler, Kirchhoff, dark, line
O'Keefe, John A.	Tektites: The controversy Continues	8	1980	tektite, meteorite, Earth, Moon, Apollo
-	P. P. A at Griffith Observatory	8	1980	GO,
Purdam, Ginger Richardson, Robert S.	Naked Eye Objects: Your Favorites?	8	1980	constellation, Pleiades, moon, Andromeda, Venus
-	International Planetarium Society Meets at Adler Planetarium	8	1980	GO, planetarium
Cohen, Martin	The Cosmic Hourglasses	9	1980	hourglass, nebula, Red Rectangle, Ant, Cygnus Egg, V645 Cygni
Steffey, Philip C.	Some Serious Astronomy in the "Sirius Mystery"	9	1980	Sirius, Dogon, Temple, religion, myth, god, alien
-	The 1980 Winners	10	1980	GO
Reed, George	The Man Who Was 'Murdered' by Newton	10	1980	Newton, England, Chaloner, Mint, murder
Mosley, John	Around the Observatory	10	1980	GO
Richardson, Robert S.	Wrong Way Moons	10	1980	moon, mistake, public, advertisement, United States, bible
Silbar, Margaret L.	Is the Sun Really Shrinking?	11	1980	Sun, Helmholtz, Einstein, neutrino, Davis, Shapiro
Matossian, Mary Kilbourne	Symbols of Season and the Passage of Time: Barley and Bees in the New Stone Age	11	1980	Turkey, archaeoastronomy, symbol, season, religion, myth, festival
Mosley, John	Around the Observatory	11	1980	GO
Mosley, John	When Was that Christmas Star?	12	1980	Christmas star, Kepler, Bethlehem, Bible, Christ, religion, Jupiter, Martin, Venus, astrology
Krupp, E. C.	Around the Observatory	12	1980	GO, exhibit
-	Griffith Observer Cumulative Index 1965-1980 Vols. 29-44	12	1980	GO, index
Gribbin, John	The Air We Breathe	1	1981	Air, atmosphere, Mars, Venus, Jupiter, Sun, life
Cohen, Martin	The Shocking Truth About Herbig-Haro Objects	1	1981	Herbig-Haro, gas, star, Lick, Kitt Peak
Irwin, John B.	The Case of the Lined Up Lenses	2	1981	Galileo, lens, Moon, telescope, Venus, Saturn, Sun

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Mosley, John	The Conjunctions of 3-2 B.C.	2	1981	Christ, religion, star, Christmas, Venus, Mars, Mercury, Saturn, observe, Bethlehem
-	Baubles, Bangles, and Beads (Adornment for a Plainer Planet)	2	1981	Saturn, Voyager
Bracher, Katherine	Total Solar Eclipses in California	3	1981	Solar, Sun, Moon, eclipse, California, total, Indian, Dearborn
-	Around Saturn's Rings	3	1981	Saturn, Voyager, ring
Gribbin, John	How Galaxies Form	4	1981	Galaxy, Big Bang, Hubble
Krupp, E. C.	Outdistanced by the Dark	4	1981	Cosmology, Hubble, mystery, galaxy
-	Beneath the Rings and Beyond Their Glow	4	1981	Saturn, ring, Voyager
Snow, Theodore P.	Dieting for Stars or How to Lose 10^25 Grams per Day (& Feel Better Too!)	5	1981	star, supernovae, supergiant, Betelgeuse, solar wind, evolution
Croswell, Ken	Triton: Destined to Remain a Mystery	5	1981	Neptune, Triton, moon, Pluto
Reese, Ronald Lane Everett, Stevan M.	J. J. Scaliger and the Julian Period	5	1981	Scaliger, Renaissance, calendar, Julian, Moon
Mosley, John	Death of the Dinosaurs	6	1981	dinosaur, extinct, Sun, luminosity, dust, supernovae, meteorite, comet, Iridium
Hartung, Horst	An Ancient "Astronomer" on a Relief at Monte Alban	6	1981	Aztec, Mexico, Structure J, Monte Alban
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
Krupp, E. C.	More Star Than Ever Before	7	1981	star, Tarantula, nebula, International Ultraviolet Explorer, R136i
Bracher, Katherine	America's First Solar Eclipse Expedition	7	1981	United States, America, eclipse, Sun, solar, Moon, pilgrim, Penobscot, New York
Yeomans, Donald K.	The Shaky Beginning of North American Astronomy	8	1981	America, United States, telescope, education, Harvard, Winthrop, Rittenhouse, Mather
Winkler, Louis	Vulcan the Unknown	8	1981	Herschel, comet, minor, Vulcan, planet, Greece, Rome, god, myth, Leverrier
Morgan, James	Meteor Nights	8	1981	Perseids, meteor, observe, shower
Barker, William A. Dreher, Diane E.	Portraits in the Sky: Michelangelo and the Sun	8	1981	Sun, Michelangelo, sunspot, Italy
-	The 1981 Winners	9	1981	GO
Irwin, John B.	The Case of the Celestial Static	9	1981	radio, astronomy, static, lightning, Jansky, Sun, flare, Reber, Very Large Array, Cygnus
Richardson, Robert S.	Dark Shadow Looming	9	1981	GO, poll, observe, Moon, Venus, Sirius
Barker, William A. Dreher, Diane E.	Portraits in the Sky: Sir Winston S. Churchill and Polaris	9	1981	Polaris, Churchill, World War II, politics, Odyssey, Homer
Rubin, Alan Edward	The Origin of the Moon	10	1981	Moon, Apollo, Ringwood, origin

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Barker, William A. Dreher, Diane E.	Portraits in the Sky: Alexander Pope and the White Dwarf	10	1981	Pope, white, dwarf, England, Homer, Eridani
Krupp, E. C.	Faster than a Speeding Light Beam	10	1981	Light, Einstein, Relativity, quasar, superluminal, radio, telescope
Lauer, Tod R.	Deuterium and the Destiny of the Universe	11	1981	Density, Deuterium, Big Bang, Galaxy, Hydrogen, Jupiter, cosmology
Krupp, E. C.	Eros Blows Us a Kiss	11	1981	Asteroid, Eros, Earth, Mars, minor planet
-	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
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,
Mims, Sam S.	Blue Stragglers: Binary Systems or Mixed-up Stars?	2	1982	binary, star, blue, straggler, Hertzsprung-Russell, cluster
Hostetter, H. Clyde	Inanna Visits the Land of the Dead: An Astronomical Interpretation	2	1982	myth, phenomena, Mercury, Venus, conjunction, god, Inanna, Land of the Dead
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	3	1982	GO, Richardson
Roques, Paul	Some Memories of Bob 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
Keel, William C.	A Lens in the Sky: the Case of the Double Quasar	4	1982	quasar, relativity, Einstein, cosmological constant, Hubble, radio, galaxy
Barker, William A. Dreher, Diane E.	Portraits in the Sky: Merlyn and a Quasar (3C273)	4	1982	quasar, Merlyn, magician, King Arthur, galaxy, star

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Townsend, Charles L.	Two Noteworthy Dark Sky Comets for 1982	4	1982	comet, observe, Grigg- Skjellerup, Churyumov- Gerasimenko
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
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	7	1982	China, Taoist, god, religion, sky
Winkler, Louis B.	Prescribing by the Stars: Thousands of Years of Celestial Medicine	8	1982	astrology, pseudoscience, myth, doctor, medicine, philosophy
Krupp, E. C.	Shadows Cast for the Son of Heaven	8	1982	Heaven, China, Shadows, myth, stick, Guo Shou jing
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 5 of 7)	8	1982	Sirius, Dogon, Sigui, religion, ritual, Jupiter, Saturn
-	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	10	1982	Jupiter, Io, earthquake, Galileo, volcano, magnetic, Voyager
Krupp, E. C.	Dark and Enigmatic: The Total Lunar Eclipse of 5-6 July 1982	10	1982	GO, Moon, eclipse

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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
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	11	1982	Shuttle, Columbia, observe, GO
Winkler, Louis B.	America’s Anticipation of Halley’s Two Periodic Comets	12	1982	comet, Halley, United States, 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
Enever, J. E.	When Explosions Collide	1	1983	supernovae, China, star, Cygnus, debris, collide, Saturn
Krupp, E. C.	Celestial Wardrobe	1	1983	China, costume, wardrobe, Indian, Mesopotamia
Byrd, Deborah Wheeler, J. Craig	Those Old Straggler Blues	2	1983	star, evolution, Doppler, blue, Hertzsprung, Russell, diagram
Cook, Anthony	Comet Halley Update	2	1983	comet, Halley, GO
Reese, Ronald Lane O’Brien, Jack L.	Renaissance Cosmologies in Paradise Lost	2	1983	Paradise Lost, Milton, religion, philosophy, Shakespeare, cosmology
Townsend, Charles	Minor Planet 1620 Geographos: Circumstances of Its 1983 Passage	2	1983	National Geographic, asteroid, Geographos, Apollo, observe
Krupp, E. C.	Paul Roques: Forty Years at Griffith Observatory	2	1983	Roques, GO
Nelson, Debra L.	Daughters of the Sky: A Brief History of Women in Astronomy	3	1983	women, Hypatia, Dumee, Howelcke, Herschel, Mitchel, Cannon, Burbidge
Hostetter, H. Clyde	The Eclipse That Failed	3	1983	eclipse, Moon, Sun, Solar, Babylon, predict
Yeomans, Donald K.	Comet Halley And Some Dubious Achievement Awards	4	1983	comet, Halley, Aristotle, Seneca, Greece, Rome, China, Apian, D’angos
Krupp, E. C.	As Far As the Eye Can See	4	1983	Doppler, quasar, PKS, farthest
Barker, William A. Dreher, Diane E.	Portraits in the Sky Joan of Arc and the Ring Nebula	4	1983	Joan of Arc, Ring Nebula, religion, Church, France, England

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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,
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
Krupp, E. C.	Discovered by Satellite: Comet IRAS-Araki-Alcock	9	1983	GO, comet, IRAS-Araki- Alcock, Infrared Astronomical Satellite
Barker, William A. Dreher, Diane E.	Portraits in the Sky: Alexander the Great and the Crab Supernovae	9	1983	Crab, Supernovae, Alexander, Nebula, Tycho's, Kepler's, Hellenistic
Martin, Donald W.	Adriaan van Maanen: How a Good Scientist Went Wrong	10	1983	Maanen, galaxy, Curtis, nebula, Hubble, Hart
Olsen, Barbara P.	The Burney Balloon or Venus Dances Backwards	10	1983	World War, Japan, UFO, pseudoscience, Venus
Krupp, E. C.	Cultivating the Sky	10	1983	Inca, Peru, China, observe, zodiac, mythology, Hopi, Maya, Demeter
Chapin, Seymour	What Better Way to go to Gotha: Lalande, Blanchard & the Balloon	11	1983	Montgolfiere, balloon, Rozier, Arlandes, Lalande, Blanchard, Balloon, France
Krupp, E. C.	The Great Ramadan Eclipse of 1983	12	1983	eclipse, Sun, Moon, Solar, Ramadan, Islam, observe, India, Mahabharata, Bali
Smith, Horace A.	Fighting for Time	1	1984	time, Naval Observatory, railroad, zone
Mosley, John	High Tides and Winter Storms	1	1984	tide, storm, Moon, Earth, gravity
Krupp, E. C.	John Lofdahl Retires	1	1984	GO, Lofdahl
-	Eclipsed Images	1	1984	Sun, eclipse, Moon
Winter, Frank H.	The Strange Case of Madame Guzman and the Mars Mystique	2	1984	Mars, Guzman, canal, life, Lowell, Flammarion
Krupp, E. C.	Dr. George O. Abell	2	1984	Abell, GO
Cook, Anthony	Comet Crommelin Is Coming	2	1984	Comet, Crommelin, observe
Jackson, Francine	The Delicate Silhouette of Venus	3	1984	Venus, observe, transit, Sun
Cook, Anthony	Comet Halley Update #2	3	1984	comet, Halley, observe, GO

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Bracher, Katherine	Sir Francis Drake and Celestial Navigation: Where Was His California Harbor	3	1984	Drake, California, harbor, England, Goleta
-	The 1983 A.S.P Awards	3	1984	Astronomical Society of the Pacific, Suntzeff, Winget, Zel'dovich, award
Herberger, Charles F.	Matching Microcosm with Macrocosm: The Urge to Order	4	1984	brain, order, Boas, Greece, Indian, microcosm
Krupp, E. C.	Planets of Other Stars: The First Hint	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 Operational Environmental Satellite
Mosley, John	New Planetarium Computer Saves Lecture's Sanity	6	1984	planetarium, GO, Arion
Chapin, Seymour L.	P. J. C. Janssen and the Advent of the Spectroscope into Astronomical Prominence	7	1984	Janssen, France, photography, spectroscope, spectrum, Sun, eclipse, comet
Schneider, G. R. Eugenia	Under Babylonian Skies	7	1984	Babylon, observe, pseudo, religion, astrology
Reddy, Francis	Recipe for a Supernovae	8	1984	Supernovae, star, giant, dwarf, white, Palomar, red, neutron, Becker, Baade
Krupp, E. C.	Leon Hall	8	1984	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, Telstar II, Planets, Almanac, Star Cataloguer, Moon, star, planets, eclipse, World Map
Cook, Anthony	Comet Halley Update #3	10	1984	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, Egypt, religion, god, myth
Pesavento, Peter	Space Shuttles - CCCP Style	12	1984	shuttle, Soviet Union, military, Australia, Cosmos 1445, Soyuz
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
Sperling, Norman	Of Pupils and Brightness	1	1985	telescope, refractor, reflector, observe, pupil

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Mood, John Mood, Stephanie	El Chichon and the Dark Lunar Eclipses of 1982 or The 2-	2	1985	Moon, eclipse, Sun, Solar, Mexico, El Chichon, NOAA, NASA,
Rilke, Rainer Maria	Meinel Hypothesis Recovered Venus Setting	2	1985	volcano Venus, GO, Germany
Krupp, E. C.	Reaching for the Ring	3	1985	GO, Moon, Lunar, eclipse, annular, Mexico, Sun
McCarthy, Donald W.	Red and White, Black and	4	1985	life, intelligence, other
Zeitner, Mary	Brown: Hide-and-Seek with the Four Dwarfs			planet, dwarf, Jupiter, brown, red, white, black
Powell, Kenneth E.	Rocks from Space	4	1985	GO, planetarium
Barker, William A.	Portraits in the Sky Mohandas K. Gandhi and Jupiter	4	1985	Gandhi, Jupiter, Hindu, satellites
Injejikian, Susan Armine	Happy Birthday, Griffith Observatory: 50 Years of Public Astronomy	5	1985	GO
Krupp, E. C.	Copper Threads Among the Gold	5	1985	GO, renovation
Injejikian, Susan Armine	Music of the Sphere	5	1985	GO, music
Krupp, E. C.	Stalking the Future	5	1985	GO, future
Klepa, Lilian	Gods and the Sky in Ancient Scandinavia	6	1985	Scandinavia, Odin, Thor, myth, cosmology, Norse, god
Barker, William A. Dreher, Diane E.	Portraits in the Sky: Cleopatra and the Planet Venus	6	1985	Egypt, Venus, Cleopatra
Pesavento, Peter	The Russians Were Coming	7	1985	Moon, Apollo, Soviet Union, cold war, United States, Saturn, Korolev
Cook, Anthony	Comet Halley Update #4	7	1985	telescope, Halley, comet
Lago, Don	The Canals of Lowell	8	1985	Mars, canal, science fiction, Massachusetts
Marche, Jordan D.	The Beginnings of Korean Astronomy	8	1985	China, Korea, Moon, planet, observe
-	The 1985 Winners	9	1985	GO
Dickinson, Terence	Probing the Galaxies from Mauna Kea	9	1985	Mauna Kea, galaxy, Hawaii, Canada-France- Hawaii Telescope, CFHT, Freeman, Cepheid
Cook, Anthony	Comet Halley: The 1985-86 Apparition, an Outline	9	1985	Halley, observe, GO
Herberger, Charles F.	The Odyssey as a Journey Through Time	10	1985	Greece, ancient, myth, Odyssey, Homer
Becker, Gary A.	Caroline Herschel: The Light in the Shadow	10	1985	Herschel, England, Uranus, Germany
Resse, Ronald Lane Williams, C. Reade	An Astronomer's Poet: Alfred, Lord Tennyson	11	1985	Milton, Tennyson, poet, Renaissance
Morton, Bruce	Tennyson's Harold and the Anachronism of Halley's Comet	11	1985	Tennyson, poet, Harold, Halley, comet
Nagy, T. A. Hansen, U. J.	Comet Light, Comet Bright Which Comet Appears Right	11	1985	comet, apparition, Germany,
Chapin L. Seymour	Jean-Sylvain Bailly and "Antediluvian" Astronomy	11	1985	archaeoastronomy, Stonehenge, England, Bailly, Norse, Antediluvian

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Becker, Gary A.	The Christmas Comet of Johann Palitzsch	12	1985	Palitzsch, comet, observe, Christmas, Newton, Halley, Messier, Herschel, Goodricke
Coco, Mark	Photographing Halley's Comet	12	1985	observe, Halley, comet,
Edberg, Stephen				photography, telescope, film
Hadley, Diana	"The Sharply Veering Ways of Comets and of Fame"	1	1986	comet, Halley, England, discovery, Oxford
Cullens, Lynn Tuman, V. S.	Immortality Etched in Stone: Dating Ancient Mesopotamian Stones from Astronomical Symbols	1	1986	ancient, stone, Mesopotamia, god, religion
Goldsmith, Donald	The Shiva Theory or How Life on Earth Was Nearly Destroyed	2	1986	dinosaurs, extinction, life, comet, Nemesis, asteroid, Shiva
McAllister, Susan	Halley's Comet in 1910 and 1986: Of Wonder, Doom, and Business Boom	2	1986	comet, Halley, business, , Comet fever, pseudoscience, doom
Injejikian, Susan Armine	Dr. Clarence H. Cleminshaw: A "Tough Act to Follow"	2	1986	Cleminshaw, GO
Irwin, John B.	The Case of the Converging Cluster	3	1986	Cepheids, cluster, galaxy, Centaurus, variable, Venus
Nagy, Theresa A. Dailey, Sheron J.	The Literary Moons of Uranus	3	1986	Uranus, Moon, Shakespeare, Herschel, A Midsummer Night's Dream
Cook, Anthony	Closing in on Comet Halley	3	1986	Comet, Halley, Vega, Suisei, Giotto
Pesavento, Peter	Twelfth of April, 1961: A Look Backward	4	1986	Soviet Union, Cosmonaut, Gagarin, Korolyov, Kruschev, Mercury, Vostok
-	Mourning the Astronauts	4	1986	Challenger
-	Knocking on Heaven's Door	4	1986	Uranus, Moon
Mosley, John	Comet Halley: The Best Time to See It	4	1986	Halley, Comet, observe
Krupp, E. C.	Halley's Comet Hits Griffith Observatory	5	1986	Comet, Halley, GO, anniversary, observe
Fentress, Stephan S.	For Griffith Observatory - in Its Anniversary Year	5	1986	GO
Lunan, Duncan	Solar Events at Sighthill	6	1986	Sun, Solar, England, Stonehenge, Swinside, Sighthill, ancient
Apodaca, Paul	Sky Brought Down to Earth: California Indian Ground Displays	6	1986	Indian, California, sand painting, Polaris, Pleiades
Herberger, Charles F.	Mounting to the Moon: 1865 Style	7	1986	Verne, Moon, From the Earth to the Moon and a trip Around it, science fiction, Apollo
Berland, Gretchen	Comet Halley: The View from Pioneer Venus An Unexpected gift from an Old Spacehand	7	1986	Venus, Pioneer, Halley, comet
Lesser, Selma	Comet Halley: Serendipity on the Desert	7	1986	Halley, comet, observe
Gribbin, John	Particle Physics, Cosmology, and the First Hundredth of a Second	8	1986	quantum, physics, Hydrogen, atom, galaxy, quasar, Maxwell
Townsend, Charles	Observational Predictions for	8	1986	comet, observe,
Rogers, John	the 1987 Return of P/Denning-Fujikawa			P/Denning-Fujikawa

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Dearborn, David S. P.	The Death of an Inka	8	1986	Inca, ancient, comet, Atahualpa, Capac
-	The 1986 Winners	9	1986	GO
Bell, Trudy E.	In the Shadow of Giants: Forgotten Nineteenth Century American Telescope Makers and Their Crucial Role in Popular Astronomy	9	1986	telescope, United States, Civil War, Clarks
Custer, Clarence P. Birch, Robert W.	New Focus on a Pioneer Astronomer	9	1986	Madeira, amateur, Nevada, California, comet, Tebbutt
Tenn, Joseph S.	The Hugginses, the Drapers, and the Rise of Astrophysics	10	1986	astrophysics, Kirchhoff, Huggins, Draper, England, spectroscope
Mosley, John	Chesley Bonestell 1888-1986	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
Lunan, Duncan	Archaeoastronomy from the Air	11	1986	Scotland, Sighthill, archaeoastronomy, air, fly, photography
Lunan, Duncan	Shadows on the Milky Way	12	1986	Milky Way, cloud, Planet X, Saturn, The Cosmic Serpent, interstellar, Pluto, Neptune
Orbesen, Tom	Winter Solstice at Salmon Ruin	12	1986	New Mexico, Salmon, Anasazi, Indian
Gilliland, Ronald L.	Missing Mass, WIMPS, and Solar Neutrinos	1	1987	WIMPS, weakly interacting massive particles, Sun, solar, neutrinos, galaxy, Big Bang, dark matter
Tuman, V. S.	Astronomical Dating of Esarhaddon's Stela	1	1987	Esarhaddon, Assyrian, Mesopotamia, king, Egypt, Sun, solar
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
Pagan, Miriam	Supplying Stars by the Pageload: Astronomy Magazines for the Public in 1937	2	1987	Popular Astronomy, Griffith Observer, Sky
Burgess, John W.	Julius D. W. Staal	2	1987	Staal, Fernbank Science Center
Herberger, Charles F.	Samson Strides the Skies	3	1987	Bible, god, Samson, Greece, Egypt, Crete
Reese, Ronald Lane Chang, George T.	Once in a Blue Moon	3	1987	moon, blue, full
Kravath, Fred F.	Christopher Columbus, Geodesist	4	1987	Christopher Columbus, San Salvador, new world, navigation
Bracher, Katherine	Mid-day into Black Night: The Eclipse of Archilochus	4	1987	eclipse, moon, sun, solar, ancient, Greece, Archilochus
Krupp, E. C.	Space Stops Here	5	1987	GO, Space Stop, merchandise
Sanderson, Richard	Frank Korkosz and the First American Planetarium	5	1987	Massachusetts, United States, planetarium, Korkosz
Keen, Roger	First Light: An Astronomical Primer for Real Beginners (Part 1 of 3)	5	1987	sky, beginner, observe, constellation

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Irwin, John B.	The Case of the Intercontinental Interferometer	6	1987	interferometer, radio, intercontinental, Young, Very Large Array, Very Long Baseline Array, VLBA, VLA
Williams, Jean	Greeks Bearing Myths: The Phaenomena of Aratus	6	1987	Greece, myth, Phaenomena, Aratus, Zeus
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 Ahjumawi Narrative Involving Sun, Moon, North Star, and South Star	7	1987	season, Indian, Ahjumawi, Pit River, Sun. Moon,
-	Sky Jinks	7	1987	Moon, Jupiter, Mars, Wilson, GO
Mosley, John	Have You Seen a Black Hole Lately	7	1987	Black Hole, GO, Cygnus
Landis, Rob	The Second Ringer	8	1987	Uranus, Saturn, ring, moon, satellite
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.	A Most Exceptional Star: The Life of Otto Struve	9	1987	Otto Struve, Russia, Soviet Union, Constantinople, GO
Coppola, William C-H	Our Glowing Skies	9	1987	archaeoastronomy, Aztec, zodiac, light
Pesavento, Peter	22 Hours 28 Minutes 4 Seconds Moscow Time: Birth of the Space Age	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
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
Kravath, Fred F.	Sizing Up the Earth Before Columbus Sailed	1	1988	Christopher Columbus, Europe, Asia, Ptolemy, Arab, Eratosthenes, Aristotle, Archimedes, Posidonius
-	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
-	The 1987 A.S.P. Awards	2	1988	GO, Astronomical Society of Pacific
-	Meteorites and Mars	3	1988	Mars, Meteorite, Earth, Antarctica
Hostetter, H. Clyde	The Days of the Scorpion	3	1988	A Midsummer Night's Dream, Sumantra, Babylon, Batak
-	The First Stirrings of October	3	1988	GO, earthquake, Whittier-Elsinore
Verschuur, Gerrit L.	Barnard's Dilemma	4	1988	Barnard, belief, Herschel, Ranyard, interstellar material, dust, dark matter
Nagy, T. A. Wynne, D. A.	The First Light Curve for Delta Cephei	4	1988	Delta Cephei, variable, star, Henry Draper, Goodricke

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Mosley, John	Nostradamus and the Doom of May	5	1988	Nostradamus, France, astrology, pseudoscience, earthquake
Gribbin, John	Time and the Universe	5	1988	Astrophysics, Eddington, energy, thermodynamics, gravity, time, universe, Prigogine, Heisenberg
Tuman, V. S.	The Summer Solstice Festival: June 22, 1203 B.C.	5	1988	Paris, France, Babylon, Mul-Apin, zodiac, SB#25, Summer solstice
Kawano, Lawrence	Primordial Nucleosynthesis: Gateway to the Early Universe	6	1988	primordial, Nucleosynthesis, Universe, stellar, General Relativity, time, star, hydrogen, helium, Deuterium, Galaxy
Carlton, Lillan E.	Certified Immortality or The World is Waiting for the Lillanrise	6	1988	pseudo, science, Hoax, star naming, Immortality
Keen, Roger	Making More Out of the Moon (Part 2 of 3)	6	1988	Moon, observe, cycle, period, orbit, Earth
Irwin, John B.	The Case of the Crazy Quasars	7	1988	Quasar, Kitt Peak, Caltech, Palomar, Schmidt, radio, telescope
-	Celestial Billboards	7	1988	GO, Billboards
-	An Icon in the Landscape	7	1988	GO
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

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Baker, William A. Dreher, Diane E.	Portraits in the Sky: Helen Keller and Annie Sullivan & Sirius A and Sirius B	2	1989	companion, Pup, Sirius
Chung, Putien Selene	Stars of Shakespeare	2	1989	Shakespeare
Rubin, Alan E.	Heat Sources in the Solar System	3	1989	Heat, Solar System, Sun, fusion, meteor, asteroid, tidal forces, tides, Moon, Jupiter
Krupp, E. C.	Hyderabad's Birla Planetarium Celebrates the Winter Solstice in India with an "International Seminar on Ancient Astronomies"	3	1989	GO, ancient astronomy, India
Ayres, Annabel	Particle Physics and Cosmology: Getting to the "GUTs" of the Matter	4	1989	Grand Unified Theory, particle, physics, cosmology
Sidharth, B. G.	The Unmythical Puranas: A Study in Reverse Symbolism	4	1989	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
Whitney, Colleen	Astronomical Accident	6	1989	National Radio Astronomy Observatory, West Virginia, accident
Whitney, Colleen	Milton's Disastrous Eclipse	6	1989	Religion, English, Milton, eclipse, Bible, Paradise
Loudon, Jim	Twenty Years After: Navigating 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
Ryden, Barbara	The Earl and the Leviathan	11	1989	Parsons, Earl, Leviathan, telescope
Krupp, E. C.	Rayed Disks	12	1989	Indians, Egypt, sun, solar, sunburst
Krupp, E. C.	Facing the Sun	1	1990	Germany, Sun, Solar, Greece, Indian, Mexico
Krupp, E. C.	Making Waves with the Lord of the Sea	1	1990	Neptune, Voyager

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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
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	7	1990	biography, Missouri, Lowell, University of Chicago, Naval Observatory
Mosley, John	Preview of the 11 July 1991 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

author	title	mo	year	key words
-	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
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
Sperling, Norman	The Central Bureau for Astronomical Telegrams: A Case Study in Astronomical Internationalism	6	1991	communication, comet, asteroid, supernovae, The Atlantic Cable, Commission 6, The Central Bureau for Astronomical Telegrams
Berube, Conrad A.	The Bee-Riddled Carcass	7	1991	constellation, Greece, Lion, Bull, Taurus
-	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	3	1992	fractal, Copernicus, cosmology, Polynesia
Dryer, Ivan	Paradise Loss: Eclipsed in Hawaii	3	1992	Hawaii, viewing, Sun, solar, Moon, eclipse
Davies, Paul Gribbin, John	Weighing Up Empty Space	4	1992	dark matter, Einstein, quantum mechanics, photon, black hole, dwarf, neutron, wormhole

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Dryer, Ivan	The Quantum Conspiracy: How The Quantum Physicists Hijacked Reality When Nobody Was Looking	4	1992	Quantum physicists, quantum mechanics, Einstein, conspiracy, Bohm, theory
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.	Astronomy and Serendipity	3	1993	Serendipity, luck, chance, history, Newton, Galileo, Herschel, Jansky, Bell
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

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

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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.	If It's Broke, Don't Fix It	10	1994	Hubble Space Telescope, astrophysics, NASA, space shuttle
Cook, Anthony	Six Decades with Six Astronomers on the Lawn of Griffith Observatory	11	1994	GO, exhibit
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
Ryan, Sean G.	Lightweight Atoms Prompt Heavyweight Response	6	1995	star birth, supernovae, metal, atoms, lightweight
Osterbrock, Donald E.	The Two Stellar Populations	6	1995	Walter Baade, star birth, star population
Wheeler, John Craig	Black Hole X-Ray Novae: A New View into the Abyss	7	1995	gamma rays, supernovae, Black Hole, X-Ray

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McNierney, Michael	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
Krupp, E. C.	Breathless: The South American High Altitude Toothbrush; Total Solar Eclipse of 3 November 1994	9	1995	Chile, sun, solar, eclipse, Moon
-	The 1995 Winners	10	1995	GO
Gribbin, John	Inflation for Beginners	10	1995	Big Bang, quantum mechanics, grand unified theory, inflation
Johnson, K. Terrell	Gamma-ray Bursts: Act Locally, Originate Globally	11	1995	pulsar, neutron star, gamma-ray
Sidharth, B. G.	Brahma's Day: The Great Cosmic Cycle and the Age of the Rig Veda	11	1995	Hindu, Puranas, zodiac, astrology, Brahma's Day
Grice, Noreen	Musica Mundana: The Heavenly Harmony	12	1995	Greece, Rome, history, music
Bertsch, Hans	Converging Rings: The Path to Annular Eclipse at Cahokia's Woodhenge	12	1995	Native American, Illini, prehistory, rings, eclipse, solar, sun, Moon, Woodhenge
Colwell, Joshua E.	Whatever Happened to the Tenth Planet?	1	1996	asteroid belt, Kuiper Belt, extra solar planet, planet, Planet X
Leseman, Curtis	Partially Eclipsed: A Personal Journal to Catch the Sun	1	1996	Puerto Rico, computer, eclipse, Sun, Moon, Solar
-	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
Goldsmith, Donald	How old is the Universe?	2	1996	Hubble Constant, Virgo Cluster
Krupp, E. C.	Grace Under Pressure: The Diamond of the Skies	2	1996	GO, Anniversary
Green, Matthew	The Sacred Sky of the Navajo and Pueblo	3	1996	Indian, calendar, belief, Navajo, Pueblo
Krupp, E. C.	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
Reed, George	"Eppur Si Muove"-by Blind faith	5	1996	Galileo, Roemer, Bradley, Foucault, Henderson, Herschel
-	FOTO on the Trail of Ancient Maya Astronomy	5	1996	GO
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

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Jackson, Francine	If He Had Lived: The Promising but Brief Career of Jeremiah Horrox	8	1996	England, Horrox
Krupp, E. C.	A Cosmos in the Grains of Sand	8	1996	Gyuoto Tantric University, monk, cosmos, GO
-	Space Ghost Haunts Griffith Observatory	8	1996	GO
Peterson, Carolyn Collins	Collisions, Cannibals, Starbursts, & Black Holes: (What's Going on in the Galaxies?)	9	1996	Hubble Space Telescope, starbursts, black holes, supernovae
Reed, George	Final Resting Places	10	1996	Copernicus, Tycho, Kepler, Galileo, Newton, Halley, Herschel, Lick, Lowell, Brashear, bury
Melbourne, Jason	Cosmology: Storytelling on the Grand Scale	11	1996	Religion, Galileo, cosmology, Einstein, Big Bang,
-	G. Bruce Blair Medal Awarded to Griffith Observatory Director	11	1996	GO, Krupp
Krupp, E. C.	The Top of the Sky, the Center of the World, and the Road Between	12	1996	North Star, Polaris, China, Hindu, Egypt, Aztec, Indian, Judaism
Krupp, E. C.	Climbing the Cosmic Axis	1	1997	North Star, Polaris, Indian, Aztec, Hittite
Jackson, Francine	In Transit	1	1997	Kepler, Venus, Mercury, Sun, Gassendi, Halley, Maximilian Hell, Newcomb, transit
Grice, Noreen A.	Converging Trajectories: Black Holes, Quasars, and Where They Meet	2	1997	supernovae, black hole, quasars
Krupp, E. C.	William J. Kaufmann, III: 1942-1994	2	1997	GO
Chapin, Seymour L.	Did Halley Slay the Calamitous Comet Dragon?: Ideas about Close-approaching Comets from Whiston to Lalande	3	1997	Jupiter, Venus, Dionis, Halley, Whiston, Lalande, comet
Cook, Anthony	Hailing A Hale and Hearty Hale-Bopp	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
Leseman, Curtis	STS-34: Character Building and the Shuttle Diplomat	4	1997	Galileo, NASA, Space Shuttle, STS-34
-	FOTO Gives Constantinople	4	1997	GO
Pinto, Fabrizio	"I Am the Prince of Eternity"	5	1997	Egypt, Copernicus, Kepler, Plato, hieroglyphic
-	The 1997 Boeing Winners	6	1997	GO
Christianson, Gale E.	The Night the Universe Changed Forever	6	1997	History, cosmology, Hubble, galaxy
Sandage, Allan R.	More Fine Detail from Mount Wilson	6	1997	telescope, interferometer
—	Friends of the Observatory Close in on Winter	6	1997	GO
Rubin, Alan	Paucity of Aliens	7	1997	pseudoscience, Drake, abduction, Mars, Venus, Jupiter, bacteria, Aliens
Poitevin, Patrick	Turkish Delight: The Partial Solar Eclipse of 12 October 1996	7	1997	Turkey, Sun, Moon, Solar, Eclipse

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-	Putting Griffith into the Park	7	1997	GO
Mclean, Ian S.	Astronomy in the Twenty-first Century: The Development of Very Large Telescopes	8	1997	telescope, Palomar, 21, twenty-first century, Keck, reflecting
Krupp, E. C.	The Eclipsed Moon Plays the Same Old Tune	8	1997	GO, eclipse, Moon, Hale- Bopp
Reed, George	Viral Symbiosis: A No-Brainer	9	1997	virus, intelligence, alien, computer, extraterrestrial, contact, movie, media, Roswell, machine, 2001
Edge, Frank	Taurus in Lascaux	9	1997	Lascaux, Taurus, cave, bull, France, constellation, Pleiades
Cook, Anthony	High Performance from Hale-Bopp	10	1997	Pyramid Lake, observe, telescope, amateur, Hubble Space Telescope, image
Krupp, E. C.	Over the Top with Hale-Bopp	10	1997	Hale-Bopp, GO, observe, telescope, amateur, Heaven's Gate, Bell, media
Krupp, E. C.	Snowblind: The Long Underwear Altaic Total Solar Eclipse of 9 March 1997	11	1997	Mongolia, eclipse, solar, total, China, observe
Tidey, Steve	Red Skies at Night	12	1997	asteroid, Earth, impact, Mexico, dinosaur, effect
-	Index to Volume 61, 1997	12	1997	GO, index
Rall, Gloria D.	In Her Brother's Shadow: The Story of Caroline Herschel	1	1998	woman, science, Prussia, biography, war, Herschel, Caroline
Krupp, E. C.	Mobile on Mars	1	1998	Hubble Space Telescope, Pathfinder, Mars, Surveyor, photo
Shire, Philip R.	Unveiling Neutrino Astronomy	2	1998	neutrino, detect, Hercules, 1987A, supernova, nucleosynthesis, WIMP, Sudbery, observatory
-	A Comet in the Stream	2	1998	Halley, comet, GO
Grice, Noreen	A Shopper's Guide to Astronomy	3	1998	media, products, influence, market, candy, Mars, comet, advertise
-	FOTO Goes National	3	1998	GO, FOTO, photo
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 rendezvous, observe, GO
-	FOTO By the Bay	4	1998	GO, FOTO, photo
Cowell, Joshua E.	Much Ado About Next to Nothing	4	1998	dust, comet, asteroid, belt, particles, solar system, Saturn, ring, orbit, Jupiter, halo, Tutu
-	FOTO By The Bay	4	1998	FOTO, GO
Jackson, Francine	The Trials of Hell or How a Jesuit Priest Regained his Reputation	5	1998	Halley, transit, Mercury, Venus, sun, Hell, Jesuit, Vienna Observatory, Proctor, Newcomb, Sarton
-	The 1998 Boeing Winners	6	1998	GO, Boeing
Lazio, T. Joseph W.	How Big is the Milky Way?	6	1998	Milky Way, diameter, Kapteyn, Oort, hydrogen, dark matter, ionized, Sunyaev, cold, outer, sun

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Grice, Noreen	X-Rays: From Earth to Orbit	7	1998	X-ray, Roentgen, Crookes, tube, glow, atmosphere, emission, Scorpius, HEAO, High Energy Astrophysics Observatories, satellite, telescope, AXAF, Advanced X-ray Astrophysics Facility
Knack, Kara	Star Dust	7	1998	comet, FOTO, Halley, Giacobini-Zinner, Stardust spacecraft, Wild-2
Rubin, Alan E.	The Search for Life on Mars: Oasis or Mirage	8	1998	Mars, War of the Worlds, Mars Attacks, Lowell Observatory, Mariner 4, Mars Pathfinder, Martian meteorite
Knack, Kara	World-class Vulgarity	8	1998	FOTO, SOHO spacecraft, Voyager, earthquake
Krupp, E.C.	Pirating the Sun	9	1998	total solar eclipse, February 26, 1998, Caribbean
Knack, Kara	Twenty Years After	9	1998	FOTO anniversary
Jackson, Francine	The Voyage of the Endeavour… the First One	10	1998	Captain James Cook, H.M. Bark Endeavour, Transit of Venus, Hawaii, New Zealand
Liritzis, Ioannis	Bronze Age Greek Pyramids and Orion's Belt	10	1998	Hellenikon pyramids, Athens, Greece, archaeoastronomy
Krupp, E.C.	Bian Depei and Li Yuan Acquire Celestial Status	10	1998	asteroid, minor planet (6742) Biandepei = 1994 GR
Knack, Kara	Scaling the Heights for Balance	10	1998	zodiac, autumnal equinox, Libra the scales
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 Tempel-Tuttle
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	Japan, Leonids, meteor shower
Luna, Michael	Beyond the Sky: That Which Others Saw from Afar	12	1998	space exploration, human spaceflight, Mercury, Vostok, Gemini, Apollo, Space Shuttle, Mars Pathfinder
Lehrer, Eli	Curious Writings: Palimpsests on Callisto and Ganymede	1	1999	Jupiter, Galilean satellites, Ganymede, Europa, Callisto, Io, Voyager
Concelice, Christopher J.	Early Chicago Astronomy 1862-1895	1	1999	Alvan Clark, Sherburne W. Burnham, George Washington Hough, Dearborn Observatory, Yerkes Observatory
Mosley, John	Star Tales	2	1999	Planetarium show, script, constellations, Big Dipper, Perseus & Andromeda, southern sky, Zodiac, Myths Bowls
Krupp, E.C.	New Books	3	1999	Book reviews, *'Seismosaurus-The Earth Shaker'-David Gillette
				*'Star-Hopping for
				Backyard Astronomers'- Alan M. MacRobert

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				*'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
Knack, Kara	Visions of Venus	3	1999	Pythagoras, Sumerians, Galileo, Venus
Herberger, Charles F.	Diagonal and Framed. Part 1	4	1999	Archaeoastronomy, Quincunx, solar, symbol, Ancient Mayan, Olmec, Central America, Mexico, Greek, Ireland, and London
Krupp, E.C	New Books	4	1999	Book reviews,
				*The Astronomer's Sourcebook: The Complete Guide to Astronomical Equipment-Bob Gibson
				*Astronomy Through Space and Time- Sune Engelbrekson
				*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
Gaidos, Eric J.	Seeing a Biological Universe	6	1999	Astrobiology, life on earth, Mars, Mars meteorite, extraterrestrial life, other planets
Krupp, E.C.	Tag Team	6	1999	Jupiter & Venus conjunction, February 23, 1999
Knack, Kara	Moon Bound	6	1999	Moon, lunar exploration, Apollo
Mosley, John	We Came in Peace	7	1999	Apollo 11, Buzz Aldrin, Planetarium show, script
Knack, Kara	Information Please	7	1999	Books, information technology, Griffith Observatory renovation
Melbourne, Jason	Gravity: from Aristotle to Einstein-the History of a Theory	8	1999	Tycho Brahe, Galileo, Kepler, Copernicus, Newton, Maxwell, Einstein
Piini, Ernest W.	Outback Annularity	8	1999	Eclipse, Australia, southern sky
Knack, Kara	Something to Write Home About	8	1999	Eclipse, scale of the Universe
Monda, Richard	Chasing the Moon's Shadow: a Totally Awesome Experience	9	1999	Solar eclipse, annular, total, partial, February

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Knack, Kara	See Sun Spot	9	1999	Sunspot cycle
Renshaw, Steven & Ihara, Saori	Stars That Pass in the Night	10	1999	Japanese star lore,
Knack, Kara	Unmasking the Universe	10	1999	Hubble Space Telescope, Physics
Witten, Alan J.	The International Space Station: From Dreams to Reality	11	1999	*International Space Station, Salyut 7, "Skylab, Mir, N.A.S.A., European Space" Agency, Unity, Zarya, Zvezda*
Olson, Donald W. & Doesscher, Russell L.	California Surprise	11	1999	1833 Leonid Meteor Storm, Captain Joseph R. Walker
Cook, Anthony	Rapid Transit	11	1999	Transit of Mercury, November 15, 1999, Venus, Observing a transit
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
Rubin, Dr Alan E.	The Human Response to First Contact	1	2000	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
Knack, Kara	Eyeless and Upward	1	2000	Museum of Cycladic Art
Reed, Dr. George	Parallel Lives Diverging: Robert Burnham & William Herschel	2	2000	Life and times of Robert Burnham and William Herschel, Burnham's Celestial Handbook
Krupp, Dr. E.C.	Public Transit	2	2000	Mercury transit, November 15, 1999, from Griffith Observatory
Knack, Kara	It's for You	2	2000	Telephones, satellites, internet
Krupp, E.C.	Fleecing the Sun: The European Grand Tour and Quest for the Coronal Fleece	3	2000	Total Solar Eclipse of 11 August 1999
Shannon Baker, Alexi	Astrobiology: The Comprehensive Science	4	2000	NASA, New solar systems, extraterrestrial life, Mars, Stardust
Krupp , E.C.	Cliffhanger	4	2000	FOTO. John Ferraro, Lunar Eclipse January 2000
Knack, Kara	Looking for What We Cannot See	4	2000	Colonel Griffith J. Griffith, 12-inch Zeiss, FOTO
Jackson, Francine	Another Brief History of Time	5	2000	Clocks, Sundials, Nocturnal, water clock, Standard Time
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
Luna, Michael	Just Passing By: Near-object Encounters	6	2000	Meteors, asteroids, comets, impact craters, Chicxulub
Krupp, E.C.	The Sky Winked, Ben Mayer, 1925-1999	6	2000	Nova Cygni 1975, Mercury, Astronomical Society of the Pacific, Sky & Telescope
Knack, Kara	Mellow Moon	6	2000	Moon month names
Krupp, E.C.	The 2000 Boeing Winners	7	2000	Essay Contest

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McNamara, Bernard	The Mercury 13 and the Selection of Woman Astronauts	7	2000	Mercury space program, Valentina Tereshkova, Jerri Cobb, Jane Hart, Jacqueline Cochran, George Low, John Glenn, Malcolm Scott
Knack, Kara	Flash!	7	2000	Lightning, thunderstorms, Thor
Graham, Alister	The Ultimate Free Ride	8	2000	Galaxies, Edwin Hubble, Hubble Space Telescope, the Big Crunch, the Big Bang, Cosmology, Universe, Supernova
Rao, Joe	Well, I Did Promise Them a Big S	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
Winter, Frank H.	Goddard's Meteor Mania	10	2000	Robert H. Goddard, Rockets, meteor shower, meteoroid hazards to spacecraft, Perseid meteors
Rao, Joe	The Storm at the End of the Century	11	2000	1999 Leonid meteors
Upton, Edward K.L.	The Leonids were Dead, They Said	11	2000	Leonid meteor storms
Knack, Kara	Thanks for Giving	11	2000	An account of the August 11, 1999 solar eclipse from Romania
Manning, James G.	Voyage to the Secret Sun	12	2000	Archaeoastronomy, the sun, Greek mythology, solar eclipse, corona
Lazio, Joseph	What Lurks in the Heart of the Milky Way	1	2001	Milky Way, galaxy, globular cluster, Kapetyn Universe, stars, Sagittarius
Palmer, Kirk	Twenty Years After	1	2001	Gordon Mitchell. Paul Roques, Anthony Cook. Telescope demonstrator, Astronomical Observer
Knack, Kara	Unveiling Venus	1	2001	Venus, Aphrodite, Mesoamerica
Baker, Alexi Shannon	A Microscope on the Macrocosm	2	2001	Microorganisms, nanobacteria, ALH 84001, Mars meteorite, Scanning Electron Microscope
Olivarez, Jose	Astronomy for Parrots	2	2001	Parrot, Chabot Observatory and Science Center, planetarium
Knack, Kara	One Worth Looking Up To	2	2001	Benjamin Banneker, stellar transit, almanac
Goldsmith, Donald	The Runaway Universe	3	2001	Expanding universe, Einstein, cosmology, Edwin Hubble, cosmological constant, supernova, Kerrigan Problem
Naik, Atul P.	The Mother's Lunar Brother	3	2001	Moon lore, Shiva, Chanda Mama, India
Knack, Kara	Instruments of Great Thought	3	2001	William and Caroline Herschel, Uranus, Astronomers Monument
Jackson. Francine	The Human Side of Halley's Comet	4	2001	Comet, transit of Venus, Edmond Halley, 1910, 1986, 2060
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

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Knack, Kara	What a Spectacle	5	2001	Telescope, microscope, Galileo Benjamin Franklin
Bell, Trudy E.	The Eclipse Chasers	6	2001	Total solar eclipse, World Wide Web, eclipse expeditions, photography
Kara, Knack	Moonblind	6	2001	Apollo astronauts, moon landing, Aristarchus, Hipparchus
Bell, Trudy E.	Have Telescope, Will Travel: The Origin of U.S. “Graze-chasing” Expeditions	7	2001	Lunar grazing occultations expeditions, moon, stars, Aldebaran, Riverside 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	8	2001	Gravity, southern sky, Albrecht Durer, Crux, Centaurus, astrocartography
Young, Arthur	Enlarged by Perception: The Moon Illusion and the Shape of the Sky	9	2001	moon, clouds, horizon, Muller-Lyer illusions
Thurston, Huge	Aligning Giza: Astronomical Orientation of the Great Pyramid	9	2001	Egypt, Krufu, The Orion Mystery and the Message of the Sphinx, total solar eclipse,
Knack, Kara	Stuck on Starstruck	9	2001	Griffith Observatory, Friends of the Observatory
Gerstell, Mimi	Keeping Mars Warm	10	2001	2001 Mars Odyssey, Greenhouse gases, atmosphere, temperature
Knack, Kara	Atlas	10	2001	Titan, Greek Mythology, Zeus, Pleaides, star atlas, Ptolemy
Niemack, Michael	The Evolution of the Universe	11	2001	Cosmology, Edwin Hubble, M31, Milky Way, Einstein, electromagnetic force, weak and strong force, atomic nuclei, big bang
Krupp, E. C.	California's Second Largest Stone Meteorite Lands at Griffith Observatory	11	2001	Meteor, Bruceville, chrondrite, iron-nickel
Knack, Kara	Time's Up	11	2001	Standard time, time zones, railroads, Griffith Observatory's renovation
Krupp, E. C.	Iconic Observatory	12	2001	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
Reed, George	As Silent as the Stars	1	2002	John Goodricke, Perseus, Algol, Edward Pigot, delta Cephei
Piini, Ernest	An Eclipse over Zambia: A triple Diamond Ring Ceremony	1	2002	Total solar eclipse on June 21, 2001, Africa, Victoria Falls, Southern Cross, Cannon GL-1 camcorder
Knack, Kara	In the Dark	1	2002	Dark matter, Dr. Fritz Zwicky, galaxies

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Aslaksen, Helmer	When is Chinese New Year?	2	2002	Lunisolar calendar, moon phases, equinox, solstice, holidays, seasons, China, Jesuits, Mickey Mouse, Temple of Heaven
Knack, Kara	Like a Rolling Stone	2	2002	Foucault Pendulum, Colonel Griffith J. Griffith, Hugo Balin, Zeiss Mark IV, Universarium, renovation
Krupp, E. C.	New Books	2	2002	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
Read, Nicholas	Observing Greenwich	3	2002	Meridian, longitude, time zones, England, Royal Greenwich Observatory, transit circle, George Biddell Airy, Astronomer Royal
Knack, Kara	Looking Back but Looking Up	3	2002	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
Pritchard, Matthew	Why Are There No Maria on the F	4	2002	Clementine, Apollo, Luna 3, tides, Lunar Prospector, formation
Krupp, E.C.	Closed Universe	4	2002	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. Design
Knack, Kara	Devilish Dust	4	2002	Meteorite, volcanic dust, Sahara sand
Grice, Noreen and Spitkivsky, V. Matthew	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
Piini, Ernest	Costa Rica Clouds Eclipse	5	2002	Annular Eclipse, December 14, 2001, Arenal volcano
Knack, Kara	Instrumental Art	5	2002	camera obscura, Antonio Canaletto, renovation of Griffith Observatory
Baker, Alexi Shannon	The Heavens Blaze	6	2002	Halley's comet, comet, Kohoutek, ancient comet observations, comet Borrelly
Knack, Kara C	Coordinating the Sky	6	2002	Astronomical reference systems, right ascension, declination, zenith, pole, great circle
Krupp, E.C.	The 2002 Boeing Winners	7	2002	Boeing essay contest winners

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Weiss, John	A (Fairy) Tale of Two Planets	7	2002	Uranus, Neptune, Pluto, planetesimal, Edgeworth-Kuiper Belt, asteroids, Upsilon Andromedae, Don Dixon, artwork
Knack, Kara	Tooling Around the Universe	7	2002	Telescopes, Foucault pendulum, cloud chamber
Jackson, Francine	Ghost Stories in the Sky	8	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
Knack, Kara	Ocean Motion	8	2002	Tides, moon, sun, gravity
Gharib, Hossein Alizadeh	The Magi and the Meteorites	9	2002	Magi, Zoroaster, history of astronomy in Iran and the Middle East, Veramin meteorite
Knack, Kara	Imported Merchandise	9	2002	Meteors, meteorites, dinosaurs
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
Knack, Kara	Name Game	10	2002	Uranus, Neptune, Pluto, Uranium, Neptunium, Plutonium, nomenclature
Harris, Joel K.	Good to the Last Drop	11	2002	10 June 2002 Annular Eclipse, La Cruz de Loreto Mexico
Krupp, E.C.	Closed for Eclipse	11	2002	10 June 2002 partial eclipse, Griffith Observatory
Krupp, E.C.	Uprooting the View	11	2002	Removal of Observatory Periscope, 4 June 2002, Los Angeles Maritime Museum
Knack, Kara	Desperately Seeking Orion	11	2002	Constellations, Orion
Ridolfo, Frank	Planets That Never Were	12	2002	Vulcan, Intramercurial planet Earth's Twin, co-orbital planet, Planet X,status of Pluto, Bode's
Knack, Kara	Not Hot	12	2002	Law, asteroids Temperature
Pritchard, Matthew	Visitors from Other Stars, The Mystery of Cosmic Rays	1	2003	Cosmic rays, origin
Knack, Kara	Launching a Satellite for Public Astronomy	1	2003	Griffith Observatory Satellite
Young, Dr. Arthur	What Time Is It, Really?	2	2003	Solar time, apparent solar time, eccentricity effect, obliquity effect, equation of time, the analemma, sunrise and sunset times.
Knack, Kara	Boxing With Gravity	2	2003	Gravity, weightlessness
Torchinsky, Jason	An Orbital View of One's Own, A Proposal for an International Space Station Habitation Module	3	2003	International Space Station, Soyuz, Apollo-Soyuz mission, habitation module, crew return vehicle

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Krupp, E.C.	New Books	3	2003	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
Knack, Kara	Socking It to Spring	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
Manning, James G.	The Quest for Time	5	2003	History, solar year measurement, Stonehenge, Egypt, waterclock, lunar calendars, Gregorian Calendar, mechanical clock, astronomical methods, time zones atomic time
Knack, Kara	When It Clouds, It Pours	5	2003	Cosmic rays, GO cloud chamber
Krupp, E. C.	Eclipse Safari at Sea	6	2003	Total Solar Eclipse of 4 December 2002, eclipse cruise
Lloyd, Vincent	Who Measured the Distance to the Sun?	7	2003	History, Aristarchos, Claudius Ptolomey, Gian Domenico Cassini, Gottfried Wendelin, Jeremiah Horrocks, John Flamsteed, parallax, radar ranging
Knack, Kara	Some Star	7	2003	V838 Monocerotis, stellar evolution
Johnson, Francine	Astronomical Illusions	8	2003	Optical illusions, parallax, retrograde motion, meteor radiants, Mach bands, martian canals, black drop, astronomical history
Cook, Anthony	Mars, You, and Eye	8	2003	Mars opposition, observation techniques, Observatory plans
Cook, Anthony	Destination Mars	8	2003	Launch of Spirit, crater Gusev
Krupp, E. C.	FOTO Towers over the Andes	8	2003	Machu Picchu, Torreon, Joy Picus
Krupp, E.C.	Lost Domes	8	2003	Mount Stromolo Observatory, fire of 18 January 2003
Knack, Kara	From Earth to Mars	8	2003	Martians, whimsy
	Mars Close-Up in Talk by William K. Hartmann	8	2003	Lecture announcement
Lloyd, Vincent	Precession of the Equinoxes	9	2003	Astronomical history, Ptolemy, Hipparchos, Tycho, Newton, precession, obliquity, tidal forces

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Krupp, E.C.	New Books	9	2003	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
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
Krupp, E.C.	Observatory in Exile	10	2003	Griffith Observatory renovation, photo essay, Griffith Observatory Satellite
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	11	2003	David Peck Todd, Mable Loomis Todd, biography, astronomical history
Krupp, E.C.	FOTO Interferes with Mount Wilson	11	2003	Chara Interferometer, Mt. Wilson, Joy Picus
Knack, Kara	Gravity Under Grace	11	2003	Gravity Recovery And Climate Experiment (GRACE)
Knack, Kara	Urania's Labels	12	2003	Fruit labels, photo essay, whimsy
	Index to Volume 67, 2003	12	2003	Griffith Observer index
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
Krupp, Dr. E.C.	Climbing out of Eclipse	1	2004	Caption for Matt Ventimiglia photo, lunar eclipse of 15 May 2003
Knack, Kara	Resolutions	1	2004	FOTO notes, meanings of "resolution"
Mack, Katie	Probing the Early Universe Quasars and the Epoch of Reionization	2	2004	Observational cosmology, big bang, reionization era, inflation, cosmic microwave background, quasar spectra, future prospects. Errata, March 2004
Nakamoto, David	Suburban Skies	2	2004	Observing Saturn
Knack, Kara	What a Difference a Day 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
Knack, Kara	Marching on Mars	3	2004	FOTO notes, 2003 Mars Opposition, Griffith Observatory events, NASA rovers.

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Anonymous	Shifting the Blame	3	2004	Errata, “Probing the Early Universe” (2004 February)
Rubin, Dr. Alan E.	Numismatic Astronomy	4	2004	Coins, printed money, astronautics, space exploration, rocketry.
Smith, Dr. Horace A.	The Aurora Returns to New England	5	2004	Aurora Borealis display, New England, 1719 December 22, Cotton Mather, Thomas Robie, Benjamin Franklin
Nakamoto, David	Suburban Skies	5	2004	Observing guide, comets NEAT (2001 Q4) and LINEAR (2003 T7)
Gharib, Hossein Alizadeh	Zoroaster’s “Aurora” & Aristotle’s Aither: A Persian History of the Aurora	6	2004	Aurora, Persian astronomy, Nabu-Rimmani, Magi, Aristotle, Avicenna
Nakamoto, David	Suburban Skies	6	2004	Backyard observing, globular clusters, M4, M5
Knack, Kara	The Door to Summer	6	2004	Summer solstice, George Ellery Hale, 200-inch telescope, Griffith renovation
Krupp, E. C.	2004 Boeing Winners	7	2004	Essay Contest
Baker, Alexi Shannon	Was a Star Danced	7	2004	Elizabethan Astronomy, heliocentrism, Shakespeare, John Dee, Leonard Digges, Thomas Digges, Robert Recorde, Rosencrantz, Guildenstern
Nakamoto, David	Suburban Skies	7	2004	Backyard observing, Ring Nebula, M57
Knack, Kara	No Plain Planet	7	2004	Saturn, Cassini orbiter, Huygens probe
Baker, Alexi Shannon	Forbidden Knowledge in a Forbidden City	8	2004	Chinese Astronomy, Jeusuit astronomers, Shen Kua, Matteo Ricci, Emmanuel Diaz, Johann Adam Schall von Bell, Peter Li Tianjing, Giacomo Rho, Ferdinand Verbiest, Mei Wending, Wang Xishan, Micel Benoist, Ruan Yuan
Nakamoto, David	Suburban Skies	8	2004	Backyard observing, star clusters, M6, M7
Knack, Kara	Tripping the Light Fantastic	8	2004	galaxy mergers
Jackson, Francine	Looking Backwards: An Historical Perspective on Retrograde Motion	9	2004	retrograde motion, parallax, history, Aristotle, Claudius Ptolemy, Nicolas Copernicus, Giordano Bruno, Galileo Galilei, Tycho Brahe, Johannes Kepler
Nakamoto, David	Suburban Skies	9	2004	backyard observing, Andromeda Galaxy, M31
Knack, Kara	In the Beginning	9	2004	FOTO notes, Genesis spacraft
Cook, Anthony	Dark Side of the A Ring	9	2004	Saturn, Cassini spacecraft, A Ring, image caption
Clemons, Andrea	Perception: Light–Visible and Otherwise–and How it Matters	10	2004	light, electromagnetic spectrum, multiwavelenght astronomy, Gamma ray, X-ray, ultraviolet, infrared, radio
Nakamoto, David	Suburban Skies	10	2004	backyard observing, globular clusters, open clusters, M2, M52
Krupp, E.C.	FOTO Power at the Solar Tower	10	2004	Mt. Wilson Observatory 150-foot solar tower telescope, Joy Picus

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Krupp, E. C.	Old Pictures of Old Stones	10	2004	book review, Stuckley Illustrated, complied by Neil Mortimer
Kanck, Kara	Shadowing the Moon	10	2004	FOTO notes, lunar eclipse
Krupp, E.C.	African Transit Safari	11	2004	8 June 2004 transit of Venus, Fringilla Zambia transit expedition
Knack, Kara	Urania's Jewelry	12	2004	astronomy-themed jewelry, history, fashion
Reed, Dr. George	Are We There Yet? I'm Bored	1	2005	Astronomical history, whimsy, exploration
Editor	Cheshire Moon	1	2005	Photo essay, Saturnian F ring, Cassini spacecraft
Editor	Another Backward Glance	1	2005	Errata, "Looking Backwards" (September 2004)
Editor	FOTO Pauses on the Causeway	1	2005	Angkor Way, Joy Picus
Knack, Kara	Furthering the Far View	1	2005	FOTO notes
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, Ormbsy Mitchel, Cincinnati Observatory, Dudley Observatory, American Civil War, Mars
Nakamoto, David	Suburban Skies	2	2005	Backyard observing, M33
Knack, Kara	The Hands of Time	2	2005	FOTO notes, timekeeping
Janes, Sara	The Hubble Space Telescope: Its History and Science	3	2005	Astronomical History, *Hubble Space Telescope, James Webb Space Telescope*
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	3	2005	Aurora observation, 2004 July 24, Ashcroft, British Columbia, Canada, Barbara Roden
Mosley, John	Pioneering Public Astronomy In the Faster, Cheaper, Better Mini-Planetarium	4	2005	Griffith Observatory, Satellite Facility, mini-planetarium, school shows
Ventimiglia, Matt	Recreation Vehicle: Get Your Spaceflight Tickets Now!	4	2005	SpaceShipOne, Ansari XPrize, 21 June 2004 test flight, 29 September 2004 test flight, 4 October 2004 test flight
Nakamoto, David	Suburban Skies	4	2005	Backyard observing, Jupiter
Knack, Kara	Coloring the Sky	4	2005	FOTO notes, spectroscopy
Whittle, Dr. Mark	Children of the Stars	5	2005	Nucleosynthesis, atoms, elements
Editor	Back to Titan	5	2005	Titan panorama, Chesley Bonestell, center illustration caption
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

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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
Bell, Trudy E.	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
Cook, Anthony	A Crash Course in Comet Observing	7	2005	Deep Impact, Comet 9P/Tempel 1,observing Guide
Editor	Self-Inflicted Nuclear Annihilation	7	2005	Deep Impact logo
Gersell, Dr. Mimi	Astronomical Icing: The Milankovich Theory Matures	8	2005	Milutin Milankovich, ice ages, precession, axial tilt, obliquity, glaciers, climate
Nakamoto, David I	The 2005 Opposition of Mars: What to Expect, Part I	8	2005	Mars opposition, observing guide
Editor	Local Color	8	2005	Mars Spirit photo, Larry’s Lookout
Editor	Crowning Glory	8	2005	Griffith Observatory, Planetarium cork floor, renovation photo
Knack, Kara	Comet Fireworks	8	2005	FOTO notes, Deep Impact
Krupp, Dr. E.C.	More Boeing Winners	9	2005	Essay contest
Jackson, Francine	The First Astronomer John Flamsteed and the Greenwich Observatory	9	2005	John Flamsteed, Royal Astronomical Society, Greenwich Observatory, history
Nakamoto, David I.	The 2005 Opposition of Mars: What to Expect, Part II	9	2005	Mars opposition, observing guide
Editor	A Scar is Born	9	2005	Deep Imact photo, "Comet nucleus, comet 9P/Tempel 1"
Knack, Kara	She Sees Sky	9	2005	FOTO notes
Whittle, Dr. Mark	Primal Scream: Sounds from the Big Bang	10	2005	Big Bang, microwave background, cosmology
Nakamoto, David I	The 2005 Opposition of Mars: What to Expect, Part III	10	2005	Mars opposition, observing guide
Editor	A Monumental Restoration	10	2005	Astronomers Monument, photo, Renovation
Reed, Dr. George	Double Hubble	11	2005	Edwin Hubble, Hubble Space Telescope, biography,history
Editor	See The Constellations in Comfort!	11	2005	Samuel Oschin Planetarium, seats, floor,renovation, photos
Knack, Kara	Creatures of the Crescent Moon	11	2005	FOTO notes
Krupp, Dr. E.C.	Mutiny on the Ecliptic	12	2005	Hybrid annual-total Eclipse 8 April 2005, south Pacific expedition
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

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Editor	Rocket Plane to Mars	1	2006	Interplanetary rocket place plans, Popular Science magazine (1934)
Knack, Kara	Astronomy's New Awakening	1	2006	FOTO notes
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	Scwassman/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	Two Colonial Astronomers	10	2006	Benjamin Banneker, David Rittenhouse
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

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Keel, William C.	Astronomers Beyond Ozone	11	2006	Ultraviolet camera, telescope
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
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

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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
Brogt, Erik	A Night on the Mountain	2	2008	Kitt Peak, telescope, dome
Krupp, E.C.	There's No Place Like Holmes	2	2008	Comet
Lloyd, 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
Stahler, Steven	Tales of the Crab	6	2008	Constellation, Crab Nebula, cloud, star
Krupp, E.C.	Eclipsing Indoors	6	2008	Solar Eclipse Conference
Djorgovski, S. George	A Picture Worth a Thousand Stories	7	2008	The Big Picture, cluster, galaxy, Messier
Krupp, E.C.	Celestial Treasure	8	2008	FOTO speech
Knack, Kara	Nearly Fourteen Billion Years of Accessorized Time	8	2008	FOTO notes, Cosmic Connection
Krupp, E.C.	The Eclipse Curtain Rises	8	2008	Lunar eclipse, Griffith Observatory events
Fentress, Stephen S.	Where Did the Big Bang Happen?	9	2008	Edwin Hubble, spectrum
Krupp, E.C.	Operations Moonwatch	9	2008	Sputnik 1, Keep Watching the Skies!
Grice, Noreen	Slammin' with the Stars	10	2008	National Federation for the Blind, tactile astronomy
Cook, Anthony	Meet Makemake	10	2008	Dwarf planet, Easter island, discovery
Gutierrez, Dan D.	Gravitational-wave Astronomy	11	2008	Henri Poincare, gravitational radiation, Einstein's general relativity
Danly, Laura	August Heat Wave	11	2008	Spitzer Space Telescope, anniversary celebration
Pesavento, Peter	Battle for the Moon: The Untold Story of the Circumlunar Race	12	2008	Russia, Soviet Union, space race
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 Sciopticon	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
Knack, Kara	Solar Eclipse Sunbathing in Siberia	4	2009	FOTO notes
Landis, Rob	NEOs Ho! The Asteroid Option	5	2009	Mars landing, near-earth objects, near-earth asteroids, near-earth comets, NEAs, NECs
Danly, Laura	Interplanetary Field Trip	6	2009	Griffith Observatory fifth grade school program
Krupp, E.C.	The Parade's Gone By	6	2009	Tournament of Roses Parade
Frank, Iris	The Universe of Quilts: A Yours-to-Discover Quilt Show	6	2009	International Year of Astronomy, The Parajo Valley Quilt Association
Fentress, Stephen S.	The Man Who Thought Bigger Than JFK	7	2009	James Webb, NASA, space program, moon mission

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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
Croft, Steve	Mr. Allen's Telescope	10	2009	Allen Telescope Array (ATA), One Hectare Telescope, SETI
Dewane, Sherry	The Aurora and I	10	2009	FOTO notes
Decker, Dwight R.	The Mystery Moon of Mars	11	2009	Kinderman, The Speedy Journey, science fiction
Dewane, Sherry	Booked for the Universe	11	2009	FOTO notes
Keel, William C.	Ptolemy's Telescope?	12	2009	International Year of Astronomy, science of optics
Ross, David J.	Apollobaum	12	2009	Apollo 8 anniversary
Dewane, Sherry	First Light	12	2009	FOTO notes
Manning, James G.	How Galileo Democratized the Sky	1	2010	History, sky ownership, democracy, battle for science and sky
Dewane, Sherry	Rooted in the Sky	1	2010	FOTO notes, first look through a telescope
Krupp, E.C.	Shanghaied	2	2010	solar eclipse, 22 July 2009, China, Mongolia
Baker, Alexi Shannon	The Toyman and the Telescope	3	2010	Pre-industrial astronomy, scientific instruments
Dewane, Sherry	Rooted in the Sky	3	2010	FOTO notes, memoir
Adkins, Larry	The Sky on a Whale's Tooth	4	2010	Parker Scrimshaw, tooth carvings
Cook, Anthony	Venus Plays Hide and Seek with the Moon	4	2010	Astronomical Observer, Venus occultation
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
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

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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
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 Edward	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

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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
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

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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
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	12	2012	Flyover, last flight
Danly, Laura	All Space Considered 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

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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 Reconnaissance Orbiter
Ventimiglia, Matt	A Proud Bird Comes Home	5	2013	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
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
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

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Reed, George	In the Footsteps of a Giant	2	2014	Isaac Newton,Woolsthorpe Manor, similarities to Jesus Christ, biography, Grantham, tour
Retizel, 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, Ganymeade, Callisto, topography, composition, ice, water
Danly, Laura & Reitzel, David	All Space Considered December, 2013	3	2014	monthly programming, comet ISON, neutrinos
Lloyd, 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-consencrated Foundation Stones, & Noble Liquors Relflecting 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
McSavaney, 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

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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, penumbura, blood moon, tetrad
Danly, Laura; Reitzel, David & Cook, Anthony	*All Space Considered August, 2014*	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	*All Space Considered September, 2014*	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	*All Space Considered October, 2014*	1	2015	*Curiosity, Opportunity, Bruce Jakosky, MAVEN, MOM, Mars, exoplanet, water, Neptune-sized, HAT-P-11b*
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
Danly, Laura & Reitzel, David	*All Space Considered November, 2014*	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	*All Space Considered December, 2014*	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

author	title	mo	year	key words
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	*All Space Considered January, 2014*	4	2015	*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*
Knack, Kara	Griffith Observatory, James Dean, and the Universe	5	2015	FOTO notes
Danly, Laura; Reitzel, David & So, Patrick	*All Space Considered February, 2014*	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	*All Space Considered March, 2015*	6	2015	*Dawn mission, Ceres, Mark Rayman, water vapor, Mars, Terra Cimmeria region, Scholz’s Star, Oort Cloud, SDSS J1038+4849, SDSSCGB 8842.3, SDSSCGB 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	*All Space Considered April, 2015*	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	*All Space Considered May, 2015*	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	*All Space Considered June, 2015*	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	*All Space Considered August, 2015*	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
Cook, Anthony	*All Space Considered September, 2015*	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

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Danly, Laura; Reitzel,David; & Cook, Anthony	*All Space Considered October, 2015*	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	*All Space Considered November, 2015*	2	2016	*Kepler Input Catalog, KIC 8462852, extrasolar planets, alien life, transits, Dyson sphere, George Musser, non-locality, quantum entanglement, Spooky Action at a Distance*
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
Reitzel, David; Al-Ahmed, Sarah	*All Space Considered December, 2015*	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	*All Space Considered January, 2016*	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"

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Reitzel, David; Al-Ahmed, Sarah	*All Space Considered February, 2016*	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
Reitzel, David; Al-Ahmed, Sarah	*All Space Considered March, 2016*	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	*New Horizons, Pluto, Charon, dwarf planet, linguistics, planet naming, James Christy*
Reitzel, David; Al-Ahmed, Sarah	*All Space Considered April, 2016*			Supernovae, stellar remnants, Supernova 2012cg, Kepler Space Telescope, Pluto, New Horizons, Charon, space dust, Michelle Thaller, NASA, climate change
Reitzel, David; Al-Ahmed-Sarah	*All Space Considered May, 2016*	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
Al-Ahmed, Sarah; Reitzel, David	*All Space Considered June, 2016*	9	2016	International Space Station, Bigelow Expandable Activity Module, BEAM, Keck telescope, star formation, exoplanets, Kepler Space Telescope, transit method

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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	*All Space Considered July, 2016*	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	*All Space Considered August, 2016*	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, Compte de Buffon, probability
Al-Ahmed, Sarah; Reitzel, David	*All Space Considered, October, 2016*	1	2017	*Juno, Jupiter, NASA, poles, aurorae, radio emission, planetary meteorology, JIRAM, infrared, ESO, exoplanet, Proxima Centauri, Proxima b, Rosetta, comet 67P/Churyumov-Gerasimenko, exobiology, Philae*
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

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Al-Ahmed, Sarah; Reitzel, David	*All Space Considered November, 2016*	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	*All Mars Considered*	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
Al-Ahmed, Sarah; Reitzel, David	*All Space Considered December, 2016*	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	*All Space Considered January, 2017*	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	*All Space Considered February, 2019*	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

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Reitzel, David; Al-Ahmed, Sarah	*All Space Considered March, 2017*	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
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	*All Space Considered April, 2017*	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	*All Space Considered May, 2017*	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	*All Space Considered June, 2017*	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
Reitzel, David; Al-Ahmed, Sarah	*All Space Considered July, 2017*	12	2017	Exoplanets, Kepler, mini-Neptunes, Parker Solar Probe, heliophysics, solar wind, Sun, total solar eclipse, eclipse safety, solar filter

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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	*All Space Considered August, 2017*	1	2018	*Aqua, Antarctica, Larsen C ice shelf, iceberg A68, climate change, calving, Oort Cloud, WISE, long-period comets, Juno, Jupiter, Red Spot*
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	*All Space Considered September, 2017*	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	*All Space Considered October, 2017*	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	*2001: A Space Odyssey, SETI, cinematography, popular culture, Stanley Kubrick, science fiction, first-contact, exoplanets, little green men*
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	*All Space Considered November, 2017*	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 1I/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

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Al-Ahmed, Sarah	*All Space Considered December, 2017*	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	*All Space Considered January, 2018*	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	*All Space Considered February, 2018*	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
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	*All Space Considered March, 2018*	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	*All Space Considered April, 2018*	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

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Al-Ahmed, Sarah; Reitzel, David	*All Space Considered May, 2018*	10	2018	*All Space Considered anniversary, TESS, exoplanets, satellite launch, Mars, InSight, Elysium Planitia*
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
Al-Ahmed, Sarah; Reitzel, David	*All Space Considered June, 2018*	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, Hertsprung-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	*All Space Considered July, 2018*	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	*All Space Considered August, 2018*	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	*All Space Considered September, 2018*	2	2019	Moon, water ice, Chandrayaan-1, Robert Pappalardo, Europa Clipper, Europa, Ultima Thule, New Horizons, 2014 MU69

author	title	mo	year	key words
Rybarcyzk, 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	*All Space Considered October, 2018*	3	2019	*Hayabusa 2, asteroid, 162173 Ryugu, MINERVA II, MASCOT, NASA, Diamond Anniversary, history, Dharma Planet Survey, Vulcan, exoplanet, 40 Eridani A, HD 26965*
Abron, Laura-May	Building Other Worlds	4	2019	Exoplanets, Kepler-90, 51 Pegasi b, Star Wars, Tatooine
Al-Ahmed, Sarah; Reitzel, David	*All Space Considered November, 2018*	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	*All Space Considered December, 2018*	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	*All Space Considered January, 2019*	6	2019	Ultima Thule, New Horizons, Dr. Konstantin Batygin, Kuiper Belt, Planet Nine
Jackson, Francine	To the Moon...but Not Back?	7	2019	*Apollo, space race, postage stamps*
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	*All Space Considered February, 2019*	8	2019	Dr. Shamila Bhatacharya, 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	*All Space Considered March, 2019*	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
Al-Ahmed, Sarah; Reitzel, David	*All Space Considered April, 2019*	10	2019	*InSight, Mars lander, Demo-1 SpaceX, Hayabusa2, OSIRIS-REx*
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

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Frazier, Kendrick	Seeing the Southern Cross	12	2019	Leeward and Windward Islands, West Indies, alpha Centauri
Al-Ahmed, Sarah; Reitzel, David	*All Space Considered June, 2019*	12	2019	SpaceX, Starlink Initiative, Eric Whitacre, "Deep Field"
GO Staff	*Griffith Observer 2019 Index*	12	2019	Cumulative index, list
Al-Ahmed, Sarah	Golden Moon	1	2020	*Apollo 11, 50th anniversary, Griffith Observatory special events*
Rawlins, Dennis	Aristarchos Appreciated	1	2020	Greek astronomer, parallax, mathematics, "Great Year"
Olander, Carol	Rocketing out of Washington	1	2020	*Apollo 11 Saturn V rocket*
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	*All Space Considered July, 2019*	2	2020	*Event Horizon Telescope project, black hole, exoplanets,*
Prud-homme, Genereux, Annie	Of What Are Aliens Made?	3	2020	Astrobiology, alien life, molecular biology, atoms, exoplanets, water
Al-Ahmed, Sarah; Reitzel, David	*All Space Considered August, 2019*	3	2020	*Planetary Radio, LightSail 2, Local Void*
Goldsmith, Donald	No Matter? Never Mind.	4	2020	Dark matter, cosmology, Dr. Fritz Zwicky, Dr. Vera Rubin, galaxies
Al-Ahmed, Sarah; Reitzel, David	*All Space Considered September, 2019*	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	*All Space Considered: October, 2021*	5	2020	Mars, Chicxulub asteroid, dinosaurs
Rybarcyzk, 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	*All Space Considered: November, 2019*	6	2020	*Chandra X-ray Center, Saturn's moons*
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
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	*All Space Considered: December, 2019*	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	*All Space Considered: January, 2020*	9	2020	*Spitzer Space Telescope, sun*
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

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Al-Ahmed, Sarah; Reitzel, David	*All Space Considered: February, 2020*	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?	11	2020	“starlike comet”, IAU, NEO, near earth objects, mining
Krupp, E.C.	With Thy NEOWISE Dreams and Fables of the Sky	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, E.C.	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
Bohannan, Bruce	First, the Moon	2	2021	Photography, John Herschel, spectroscopy, astrophotography
Krupp, E.C.	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, Foundatioin, 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

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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
Bohannan, 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,
Clarke, Charles G.	Griffith J. Griffith and His Park	11	2021	donation, 125th anniversary, reprint
Krupp, E.C.; Pine, Mark	Since the Centennial	11	2021	update, Griffith Observatory history
Fentress, Stephen	The Infrared Calls You	12	2021	light spectrum, microns, temperature, wavelengths
Ross, David J.	*Life's Questions*	12	2021	*It's a Wonderful Life, movie*
Bedtke, Ann Marie	Give the Gift of the Stars	12	2021	Griffith Observatory Foundation, donation, membership
Chakraborty, Srija	The Pull behind Gravitation: Raychaudhuri and His Equation	1	2022	Biography, astrophysicist, black holes, singularity
Briggs, John W.	Pie Town's Big Telescope	1	2022	Totoritis Observatory, 40-inch Dobsonian telescope
Krupp, E.C.	Stellar Acquisition	1	2022	Denera Circular Zodiac, Temple of Hathor, Egypt, constellations, calendar
Blancarte, Savannah	Edges of Infinity	2	2022	expanding universe, big bang, cosmology
Grice, Noreen	Comet Spotter, Professor, and Immortalized in Art: The Amazing Life of Maria Mitchell	3	2022	Biography, American astronomer, comet, Comet C/1847TI, "Miss Mitchell's Comet"
Franklin, Lloyd	Eclipse on Ice	3	2022	The Ice Cold Way Down South Total Solar Eclipse, Antarctica
Krupp, E.C.	Testing Total Eclipse	4	2022	total lunar eclipse, Griffith Observatory livestream broadcasts
Ventimiglia, Matt	Chicago, Waukegan, & Mackinaw City: A Bradbury Pilgrim on the Road to Partial Eclipse	4	2022	Ray Bradbury, author, annular eclipse
Bedtke, Ann Marie	With Astronomical Gratitude	4	2022	Griffith Observatory Foundation, donation, membership
--	Signs of *Signs of Life*	5	2022	Samuel Oschin Planetarium, show

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Churchill, Christopher W.	Out of Ozma	5	2022	Frank Drake, SETI, search for extraterrestrial intelligence, the Drake equation, TESS, Transiting Exoplanet Survey Satellite
Luna, Michael	From Phantom to Phenomenon: The Discovery of Celestial Black Holes	6	2022	history, Isaac Newton, John Michell, James Clerk Maxwell, gravity, X-ray astronomy, radio astronomy
--	The Key to Astronomy Supply Chain in an Accelerating Universe	6	2022	magazine price increase annoucement
--	The Tenth Annual Joan and Arnold Seidel *Griffith Observer* Science Writing Contest	7	2022	contest winners
Biehle, Garrett	A Very Long Experiment	7	2022	Babylonian astronomers, Ptolemy, Hipparchus, planetary motion, planets
Miller, John Lester	How Astronomy Caught the Infrared Wave	8	2022	light spectrum, temperature, wavelengths, William Herschel, infrared astronomy
Wong, Jennifer	The Rabbit on the Moon	8	2022	Chinese mythology, pareidolia
Jackson, Francine	Picturing the Moon	9	2022	lunar photography, Daguerrerotype process, Chinese space missions
Krupp, E.C.	The Ides of May Rising-in-eclipse Total Lunar Eclipse	9	2022	Griffith Observatory special events, total lunar eclipse
Duan, Jenny	Gravity, Black Holes, and Colliding Galaxies	10	2022	cosmology, theory of relativity, string theory, event horizon
Ault, Allan and David Reitzel	All Space Considered: July, 2022	10	2022	general astronomy update
--	2021-2022 School Year Impact Report	10	2022	Griffith Observatory Foundation, Fifth Grade School Program
Elchert, Ken	Wapakoneta, Ohio: An Unexpected Astronomical Convergence	11	2022	Ohio, American history, Neil Armstrong, biography, Shawnee, Tecumseh, eclipse
Ault, Allan	*All Space Considered* : August, 2022	11	2022	general astronomy update
Bohannan, Bruce	Galileo Brown Ink and Griffith Observatory	12	2022	Galileo's Telescope Extends the Eye exhibit, Griffith Observatory history, forgery
--	2022 Cumulative Index	12	2022	magazine index
Bedtke, Ann Marie	Give the Gift of the Stars	12	2022	Griffith Observatory Foundation, membership, donation
Wong, Jennifer	The Landsat Nine	12	2022	Landsat program anniversary, U.S. Geological survey
Lu, Tiger	A Hidden Planet in the Outer Solar System: The Case for Planet 9	1	2023	dwarf planet, solar system, Urbain Le Verrier, Neptune, Pluto, Lowell Observatory, Kuiper-belt, trans-Neptunian object, TNO
Krupp, E.C.	Vandenberg Falconry	1	2023	rocket launch, Space Force
Jackson, Francine	Venus: Earth's Evil Twin	2	2023	Maya, Eosphoros, Jeremiah Horrocks, William Crabtree
Krupp, E.C.	Total Lunar Eclipse: Lost and Found	2	2023	lunar eclipse, umbra, moon, Griffith Observatory events, broadcast
Goldsmith, Donald	The Growing Hubble Tension: Can We Relieve It	3	2023	Edwin Hubble, Hubble constant, spectroscopy, cosmology

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Lloyd, Vincent	Why Can't Bob Go Faster Than the Speed of Light	4	2023	Cosmic Speed Law, Albert Einstein, relativity
Griffith Observatory Foundation	With Astronomical Gratitude	4	2023	membership, donors
Krupp, E.C.	Planet Arithmetic Part 1 Celestial Subtraction	5	2023	occultation, moon, Mars
Ventimiglia, Matt	P-22: Our Griffith Park Homeboy, Feline Celebrity, and (Maybe) Amateur Astronomer	5	2023	mountain lion, Griffith Park, in memoriam
Goldberg, Samantha	The Era of Nucleosynthesis: The Creation of Light Elements in the Early Universe	6	2023	periodic table, astrophysics, Planck Era, universe, Big Bang, nucleosynthasis
Krupp, E.C.	Planet Arithmetic Part 2 Astronomical Addition	6	2023	Jupiter, Venus, conjunction, broadcast
Goldsmith, Donald	Treasures of the Infrared: How the Webb Telescope Is Changing Astronomy	7	2023	*James Webb Space Telescope*, infrared, radiation, redshift, galaxy
Bedtke, Ann Marie	The North American Total Solar Eclipse	7	2023	Ad, eclipse trip, Griffith Observatory Foundation
Zhao, Yueer	Hear the Universe on Earth	8	2023	electromagnetic radiation, radio telescope, sound waves, sonification, light, spectrum
Reitzel, David	*All Space Considered* March, 2023	8	2023	Caroline Herschel, asteroids
Khan, Danish F.	Griffith Observatory Inspiring Generations of Young Minds	8	2023	Foundation, School Program, STEAM, fifth grade
Jalloh, Mahmoud	Hubble and Huxley: Patriot and Pacifist, Hollywood Stars and Seers of Nebulae	9	2023	Edwin Hubble, Aldous Huxley, *Brave New World*, Hollywood, World War II
Krupp, E.C.	Richard Gunther 1925-2023	9	2023	in memoriam
Lowry, Gillis	When Spaceships Pass in the Night: Exoplanets and the Search for Life	10	2023	exoplanets, aliens, Carl Sagan Institute, red dwarf, Dr. Lisa Kaltenegger
Reitzel, David	*All Space Considered* April, 2023	10	2023	plate tectonics, fossil fuels, climate change, carbon dioxide
Krupp, E.C.	Griffith Observatory and Zeiss: Astronomical Allies	11	2023	Samuel Oschin Planetarium, show, Zeiss starball projector, Carl Zeiss
Leseman, Curtis	On the Hunt for Artemis	11	2023	Greek mythology, *Artemis I*, rocket launch, NASA
Prud'homme-Genereux, Annie	The Quest for Quantum Gravity: How Curiosity about the Big Bang and Black Holes Revealed That We Are Living inisde the Matrix	12	2023	quantum physics, spacetime,
Jackson, Francine	Looking Up…Just a Little Bit	1	2024	atmosphere, atmospheric phenomena, meteorology, rainbow, sun halo, moon dog, sun dog, Belt of Venus, Venus's girdle
Ventimiglia, Matt	Less Is More: The About-a-minute Ningaloo Coast Total Solar Eclipse of 20 April 2023	1	2024	annular eclipse, total solar eclipse, umbra

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Luna, Michael	Discovering Mars: From Ancient Wandering Star to Sample Return and Beyond	2	2024	Mars, mythology, planets, popular culture, space exploration, rover
Leseman, Curtis	A View from the Top	2	2024	Vehicle Assembly Building, Kennedy Space Center, rocket launch
Feig, Max	From the Big Bang to Switzerland: The Spectacular Life of a Special Particle	3	2024	proton, photon, cosmology, neutrino, expanding universe
Reitzel, David	*All Space Considered* May, 2023	3	2024	*James Webb Space Telescope,* Mars
Bray-Ali, Noah	Dark Matters	4	2024	anti-matter, dewdrop, muon, pion, quark
Krupp, E.C.	John Mosley	4	2024	in memoriam
Krupp, E.C.	John Mosley's Stellar Evolution	4	2024	reprint, retirement, Program Supervisor
Lunan, Duncan	Waverider, A Spacecraft in Waiting, Suddenly Tropical	5	2024	spacecraft, spaceship, glider, aeronautics
Blodgett, Steven	Space: Budgeting the Final Frontier	6	2024	space exploration, Chinese history, moon missions, Manhattan Project, Space Shuttle program, Artemis mission
Krupp, E.C.	Partly Sunny in Los Angeles	6	2024	partial solar eclipse, events, broadcast
Levine, W. Garrett	Galactic Nomads: Unraveling the Mysteries of Interstellar Object	7	2024	interstellar objects, asteroid, comet, minor planets, 'Oumuamua
Ventimiglia, Matt	Circling the Sun in the Texas Hill Country	7	2024	solar eclipse, annular eclipse, astronomical tourism
Krupp, E.C.	The All-North-American Transcontinental Total Solar Eclipse of 8 April 2024	8	2024	eclipse chaser, Mexico, Griffith Observatory Foundation
Multiple Authors	Eclipse Eyewitness Reports	8	2024	astronomical toursim, eclipse chasers
Goldberg, Samantha	Forming the First Stars	9	2024	cosmology, astrophysics, big bang, population III stars
Silverman, Julia	Moonshot Museum	9	2024	Astrorobotic Technology, Inc., Pittsburgh
Griffith Observatory Foundation	Griffith Observatory Foundation Acknowledges Parters & Supporters	9	2024	donors, donations, Griffith Observatory Foundation
Xu, Andrew	An Otherworldly Search	10	2024	exoplanet, cosmology, Peter van de Kamp, Barnard's Star, red dwarf, habitable zone
So, Patrick	W.M. Keck Foundation Expands the Universe at Griffith Observatory	10	2024	Samuel Oschin Planetarium, starball projector, software upgrade, graphics, Digistar
Kroll, Frances	Main How a Small Mars Sample Could Be the Next Big Step to Finding Extraterrestrial Life	11	2024	Red Planet, Mars Sample Return, extraterrestrial life, Martian exploration
Reitzel, David	I Survived the Mud at Burning Man	11	2024	Black Rock Observatory
Sarkar, Arnab	The Origin and Fate of Life as Revealed by Stars	12	2024	Goldilocks zone, solar magnetism, sun, stellar dynamo, magnetic field, habitable zone
Abron, Laura-May	Spotting the Sun	12	2024	sunspots
Prud'homme-Genereux, Annie	Strange New Worlds: Lessons from the *James Webb Space Telescope*'s First Years	1	2025	*JWST*, redshift, cosmology, space exploration

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Ventimiglia, Matt	The Unknown Telescope	1	2025	Hugo Ballin, mural, W.M. Keck Foundation Central Rotunda
Jackson, Francine	Vulcanizing the Solar System	2	2025	Aristotle, Galileo, history of astronomy, elliptical orbit, planetary movement, Vulcan
Krupp, E.C.	Stalking the Comet	2	2025	Comet C/2023 A3
Maez, J. Louis	Eclipse on the Radio	3	2025	annular eclipse, ecliptic, Utah
Wong, Jennifer	As Above, So Below…Literally	3	2025	social media
Cook, Anthony	Anthony Cook's Corrective Lens	3	2025	Plaskett Telescope, Dominion Observatory
Goldsmith, Donald	Hubble Tension Headache	4	2025	cosmology, Edwin Hubble, Hubble's law, Hubble constant
Abron, Laura-May	Volcano Poling and Painting in Iceland	4	2025	volcanos, Iceland, lava
Multiple Authors	Observatory Obscura	5	2025	hidden gems, architecture, Griffith Observatory, exhibits, special events, history, 90th anniversary
Griffith Observatory Foundation	With Astronomical Gratitude	5	2025	donors, donations, Griffith Observatory Foundation
Bray-Ali, Noah	Like Water for Dark Matter	6	2025	*Landsat-9* , infrared spectrometer, astrophysics, cosmology
Griffith Observatory Foundation	With Astronomical Gratitude (updated)	6	2025	donors, donations, Griffith Observatory Foundation
Wong, Jennifer	Enduring a Six-hour Livestream Internet Worldwide Broadcast for the Emergence of a Sleep Token Total Lunar Eclipse	6	2025	broadcasts, livestream, music band, Sleep Token, transmedia, puzzles, alternate-reality games
Prud'homme-Genereux, Annie	Ripples & Radiation: Gravitational Wave Discoveries from LIGO to the Next Frontier	7	2025	Laser Interferometer Gravitational-Wave Observatory, black holes, neutron stars, astrophysics, gravitational waves
Wong, Jennifer	The Space Age: Imagined and Delivered	8	2025	fiction, space stations, art, literature, film
Krupp, E.C.	Occult Science	8	2025	occultation, moon, Mars, broadcast
Fentress, Stephen	Astrophysics with the Naked Eye: How Meteor Showers Were Discovered	9	2025	meteor, history of astronomy, shooting stars, Johann Friedrich Benzenberg, Heinrich Wilhelm Brandes
Krupp, E.C.	Turning 90	10	2025	90th anniversary, special events, celebration
Ho, Anna	Chasing Cosmic Flahses	11	2025	supernovae, Fast Blue Optical Transients, black holes, Complementary Metal-Oxide-Semiconductor technology
Ventimiglia, Matt	Finding Elio	11	2025	Disney Pixar, movies, film
Ventimiglia, Matt	Finding Stetson	11	2025	Perkins Observatory, telescope, Nikolai T. Bobrovnikov
Wong, Jennifer	Looking through and Thought I Knew: The Major Lunar Standstill	12	2025	major lunar standstill, Colorado, broadcasts
Ritts, Ella	Stellafane Campaign	12	2025	Stellafane Convention of Amateur Telescope Makers, Russell Porter, Vermont

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Seidel, David	You Can Make a Difference with Griffith Observatory Foundation	12	2025	Griffith Observatory employee, Museum Guide, School Program
Goldsmith, Donald	Six Decades of Quasars	1	2026	cosmology, galaxy, supermassive black holes, radio telescopes, radio interferometry, redshift
Williams, Rosemary	Elusive Aliens	1	2026	alien life, theory, Fermi Paradox, The Great Filter, Zoo Hypothesis, The Dark Forest Hypothesis
Moghni, Arian	The Spectrum: Key to the Cosmos	2	2026	history, spectroscopy, spectroscope, Isaac Newton, Joseph von Fraunhofer, photons, light, wavelenght
Jackson, Francine	Tinkering with Telescopes: David Peck Todd	3	2026	astronomer biography, solar eclipse
Cook, Anthony	*Artemis II*: Return to the Moon	3	2026	lunar mission, NASA, Apollo, mission patch
Parmar, Dhruvbhai	Beauty Spots	4	2026	sunspots, sun, photosphere, chromosphere, corona, history of astronomy, Wolf number, umbral spots
Krupp, E.C.	Galaxy Girl Goes Griffith	4	2026	*The Masked Singer*, costume, secret identity
Krupp, E.C.	Back to the Future	5	2026	Griffith Observatory anniversary
Pine, Mark	Stalking the Centennial	5	2026	100th anniversary, preparations, blueprint
Greenway, Elizabeth	Bringing the Birthday to City Hall	5	2026	Los Angeles City Council meeting, commemoration
Wong, Jennifer	Decades on the Lookout for Likes	5	2026	social media, 1930s, grand opening
Gordon, Nikki	Love Letters to Griffith Observatory	5	2026	oral histories, interviews, testimonies, Griffith Observatory Foundation
Iwata, Pixie	Passporting Griffith Observatory	5	2026	90th anniversary initiatives, passports, children's activities, family fun
Cortez, Eddie	Bookmarking the Observatory	5	2026	bookmarks, Los Angeles Public Library, LAPL, partnership
Butler, Chris	The Shape (and Size) of What's to Come	5	2026	exhibits, models, Gunther Depths of Space
Ritts, Ella	I Mined My Own Business	5	2026	Minecraft, video games, children's activities, family fun
So, Patrick	Livestream Global Griffith Observatory	5	2026	broadcast, broadcast team, astronomical events, lunar standstill, streaming, YouTube
Alarcon, Vanessa	Moonlighting at 90	5	2026	major lunar standstill, public events, Gottlieb Transit Corridor, meridian arc, foil, full moon, lunar transit
Krupp, E.C.	Celestial Globe	5	2026	Alessandro Farnese, Farnese Globe, Atlas, constellations, Gravity's Stairway, exhibit, Naples
Jedicke, Peter	My Favorite Globular Cluster	6	2026	NGC 5897, history, Giovanni Batista Hodierna, cosmology, variable star, Henrietta Leavitt, Leavitt's law
--	With Astronomical Gratitude	6	2026	Griffith Observatory Foundation, members, donors, partners

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Vishwas, Vismaya	The Shapeshifting Ghost Neutrinos: From Discovery to Destiny	7	2026	particle physics, particles, nuclear reactor, cosmic rays
Krupp, E.C.	Marching Back the Eclipse	7	2026	broadcast, broadcast team, astronomical events, lunar eclipse, streaming, YouTube