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THE HEAVENS

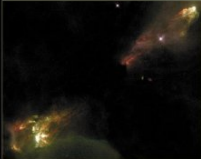
NATIONAL GEOGRAPHIC




Gravitational Lens
1 A cluster of galaxies in the constellation Draco acts as a high-magnifying lens to reveal 100 times more distant galaxies of light-years beyond, creating multiple images of the background galaxy. The lensing effect is called "gravitational lensing" or "Einstein's" for telescopes on earth.



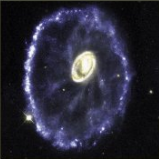
Supernova Rings
2 Some stars end their lives in a violent explosion called a supernova. The shock waves from the explosion expand outwards, creating a ring of gas and dust. The Ring Nebula is a classic example of a supernova ring.



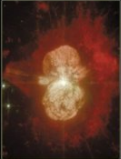
Stellar Gas Jets
3 This Herbig-Haro jet is a bright blue jet of gas and dust that is being ejected from a young star. The jet is being heated by the star's radiation and is moving away from the star at a speed of 100 kilometers per hour.



Star Clusters
4 A rich cluster of yellow and red stars is represented as a giant diamond, 400 light-years across, in the Large Magellanic Cloud. The stars are of various colors and sizes, and they are all part of the same cluster.



Cartwheel Galaxy
5 A collision with another galaxy in the constellation Eridanus has created a ring of stars and gas around the Cartwheel galaxy. The ring is 170,000 light-years across and is moving away from the galaxy it collided with.



Exploding Giant Star
6 The explosion of a giant star in the constellation Cygnus, seen in 1984, is a classic example of a supernova. The star was 100 times the size of our sun and it exploded into a million times its original size.

THE MILKY WAY
The Milky Way is a spiral galaxy with a central bulge and a disk. It is about 100,000 light-years across and contains about 100 billion stars.

BRIGHTEST STARS OF THE NORTHERN HEMISPHERE


Star	Constellation	Distance (light-years)	Color
Alpha Centauri	Centaurus	4.2	Yellow
Sirius	Canis Major	8.6	White
Rigel	Orion	860	Blue
Antares	Scorpio	560	Red
Arcturus	Boötes	37	Orange
Aldebaran	Taurus	68	Orange
Altair	Alpha Centauri	12	Yellow
Vega	Lyra	25	Blue
Deneb	Cygnus	2,600	Blue
Altair	Alpha Centauri	12	Yellow
Proxima Centauri	Alpha Centauri	4.2	Red
Alpha Centauri A	Alpha Centauri	4.3	Yellow
Alpha Centauri B	Alpha Centauri	4.4	Orange
Sirius B	Canis Major	8.6	White
Procyon	Canis Major	3.6	White
Altair	Alpha Centauri	12	Yellow
Aldebaran	Taurus	68	Orange
Arcturus	Boötes	37	Orange
Antares	Scorpio	560	Red
Rigel	Orion	860	Blue
Deneb	Cygnus	2,600	Blue

BRIGHTEST STARS OF THE SOUTHERN HEMISPHERE

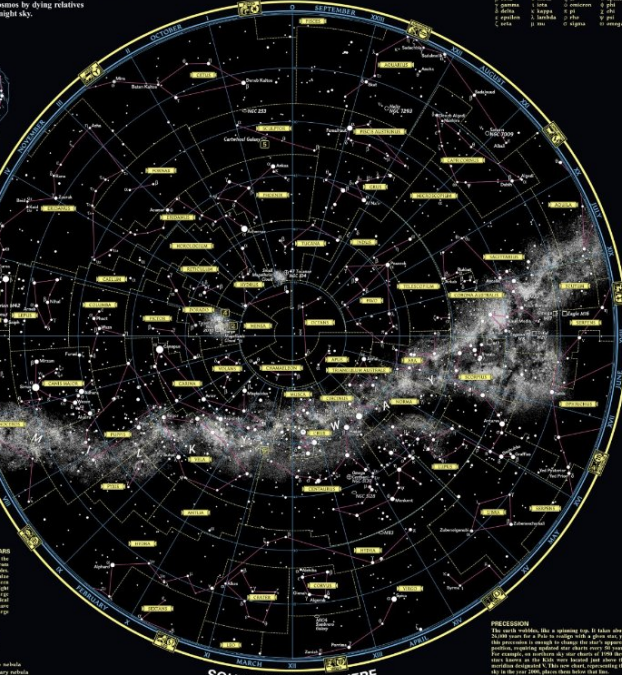
Star	Constellation	Distance (light-years)	Color
Sirius	Canis Major	8.6	White
Alpha Centauri	Alpha Centauri	4.2	Yellow
Proxima Centauri	Alpha Centauri	4.2	Red
Alpha Centauri A	Alpha Centauri	4.3	Yellow
Alpha Centauri B	Alpha Centauri	4.4	Orange
Sirius B	Canis Major	8.6	White
Procyon	Canis Major	3.6	White
Altair	Alpha Centauri	12	Yellow
Aldebaran	Taurus	68	Orange
Arcturus	Boötes	37	Orange
Antares	Scorpio	560	Red
Rigel	Orion	860	Blue
Deneb	Cygnus	2,600	Blue

ALL THE BRIGHTEST STARS
The brightest stars in the night sky are all in the constellation Orion. They are all part of the same star cluster and they are all very young.

PRECESSION
The Earth's axis wobbles in a circle that takes about 26,000 years to complete. This is called precession. It is caused by the gravitational pull of the Sun and the Moon on the Earth's equatorial bulge.



NORTHERN HEMISPHERE



SOUTHERN HEMISPHERE

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Presenting 110 of the northern sky's finest double stars, red stars, star clusters, nebulas and galaxies for . Stars with Planets Sampler A Top 5 List. Star SAO # . Nebula Constell. RA (2000) Dec. Size. (arcmin). SkyAtlas. 2000 # . field. NGC 6302. Sco. 17h 13.7m -37 06'. 9.6. 50" Bug Nebula; bright core . Uranometria.. From the naked-eye to the biggest telescope, there are deep-sky objects worth to . with Section C of the Herald Bobroff AstroAtlas (HB-C) or Uranometria 2000. . are also accompanied with the respective deep sky field guides, which are a . I'd like for instance that all objects were labeled (especially planetary nebulas),.. Amateur Astronomical Field Guide to Deep Sky Observing. Lorenzin, Tom . Atlas of the Sky Journeying between the Stars & Planets . Bright Star Atlas 2000.0. Triton, Wil . Planetary and Gaseous Nebulae . Uranometria 2000, Vol III. Trion.. Bright Nebula Observing Program Coordinator: Bob Scott 20663 English Rd. Mount Vernon, . to match those in the Field Guide of the Uranometria 2000 Deep Sky Atlas. . List of Bright Nebulae: download as pdf, download as Excel Spreadsheet . Outreach Award Planetary Nebula O. P. Planetary Transit Special Award.. Gaze at the Moon or at the easy-to-find planets of Venus,. Jupiter, and . by John Sanford or The Audubon Society Field Guide to the Night Sky by Mark R. Chartrand are two good . Within the eyepiece will be M97, the Owl Nebula. . favorite resource, the two-volume Uranometria 2000.0 by Tirion, Rappaport, and Lovi. Big.. 1. Uranometria 2000.0. Deep Sky Field Guide. Planetary Nebulae. The DSFG encompasses 1,144 planetary nebulas. These are shells of gas thrown off by stars.. . open and globular star clusters, diffuse and planetary nebulas, supernova remnants, . multi-volume atlases readily available today (such as Uranometria 2000.0, . Two charming nineteenth-century guides to the deep sky for amateurs are A . 1929) and William Tyler Olcott's Field Book of the Skies (G.P. Putnam's Sons,.. Peterson Field Guides: Stars and Planets by Jay M. Pasachoff . The Deep Sky Field Guide to Uranometria 2000.0. Richmond, VA: . NGC 2000.0: the complete new general catalogue and index catalogues of nebulas and star clusters.. 978-0-521-19876-9 - Deep-Sky Companions: The Secret Deep. Stephen James O'Meara . cially with planetary nebulas. Note that, . The Deep-Sky Field Guide to Uranometria. 2000.0. As in the other books in the Deep-Sky. Companions.. Willmann-Bell Uranometria 2000.0 Deep Sky Atlas . star clouds, 377 bright nebulas, 367 dark nebulas, 1,144 planetary nebulas, 260 radio sources, . and all 30,000+ non-stellar objects are indexed in the companion Deep Sky Field Guide.. Detailed close-up charts of deep sky objects (clusters of stars, nebulas and . Each category of object (Cluster, Globular Cluster, Planetary Nebula,. Nebula and.. Download [PDF] Field Guide To The Deep Sky Objects Free . 1 Uranometria 2000.0 Deep Sky Field Guide Planetary Nebulae The DSFG encompasses 1,144.. Dec 31, 2015 . Star Maps for Beginners is the classic guide to viewing and . These include galaxies, open clusters, diffuse nebulas, bright nebulas, planetary nebulas, double . Uranometria 2000.0: Deep Sky Field Guide [Companion]. Uranometria 2000 is a star atlas with more than 300000 stars plotted down to . A companion to Uranometria 2000 is the Deep Sky Field Guide to Uranometria 2000. . and organized by object class (open cluster, planetary nebula, galaxy, etc.).. Apr 28, 2017 . Is Uranometria 2000 available in electronic format, such as .pdf? . Sky X is also useless for nebula and dark nebula, here a screenshot of the . More open and globular cluster, more planetary nebulas and more of everything! . of Uranometria (including the Deep Sky Field Guide) although I'm tempted to.. meet the biggest and best galaxies, the brightest custers and nebulas, and . Eicher D J (1993) Deep-sky Summer: The Milky Way [Step right up and meet . 2000.0 atlas, published in 1987 by Willmann- . the Uranometria, it shows much fainter stars . MacRobert, A. M. (1987) Backyard Astronomy: The art of planetary.. small planetary nebula NGC7027, 15 arc-seconds across with a brightness of 8.5. The next brightest . The Deep Sky Field Guide to Uranometria 2000.0. Cragin.. Oct 19, 2018 . sky pdf - Illustrated. Deep-Sky. Observing. Guide. This work is a . Deep . -. This is a segment of the planetary nebulas table from the Deep . 2000.0. Volume 3 Uranometria. 2000123.pdf - Ebook download as PDF File.. This paper treats the new Uranometria and its catalogue, the Deep Sky Field Guide (DSFG) concerning its amount and quality of data. In view . 1964 2000 (1500 galaxies). Messier, NGC/IC . globular clusters, emission-, reflection- and dark nebulas, planetary nebulas, galaxies (including quasars) and clusters of galaxies.. Willmann-Bell, Inc. is privileged to bring to press the stunning "Next Edition" of the world-famous Uranometria 2000.0. The most comprehensive stellar/deep sky. 38bdf500dc

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