

Voyager II

the Dynamic Sky Simulator™
for the Macintosh™



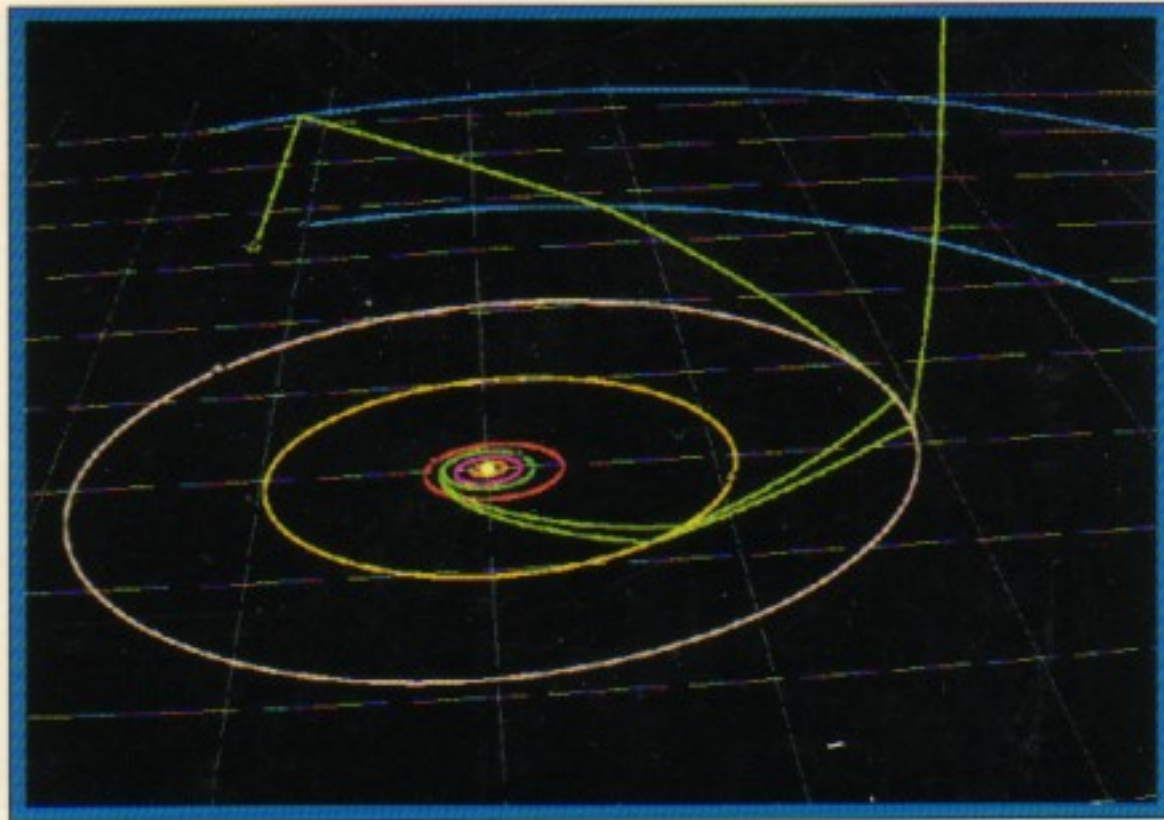
Photo by Tony Hallas and Daphne Mount

Voyager II is an astronomical adventure that will provide years of wonder and discovery.

Voyager II is an astronomy program which simulates celestial phenomena - ancient and modern - as viewed from anywhere in the solar system. Using the Macintosh's graphics capabilities, Voyager II displays tens of thousands of celestial objects in stunning realism - stars, planets, galaxies, and constellations. Follow the changing positions of the planets, and re-create the sky on the day of your birth. Travel to some far corner of the Earth to witness the wonder of a total solar eclipse. Leave the Earth as you tour the solar system to experience the beauty of Saturn's rings, or the dancing moons of Jupiter.



Saturn and its moons as seen from Uranus



The path of the Voyager I and II spacecraft

High Performance:

The fastest astronomy program available.

Powerful:

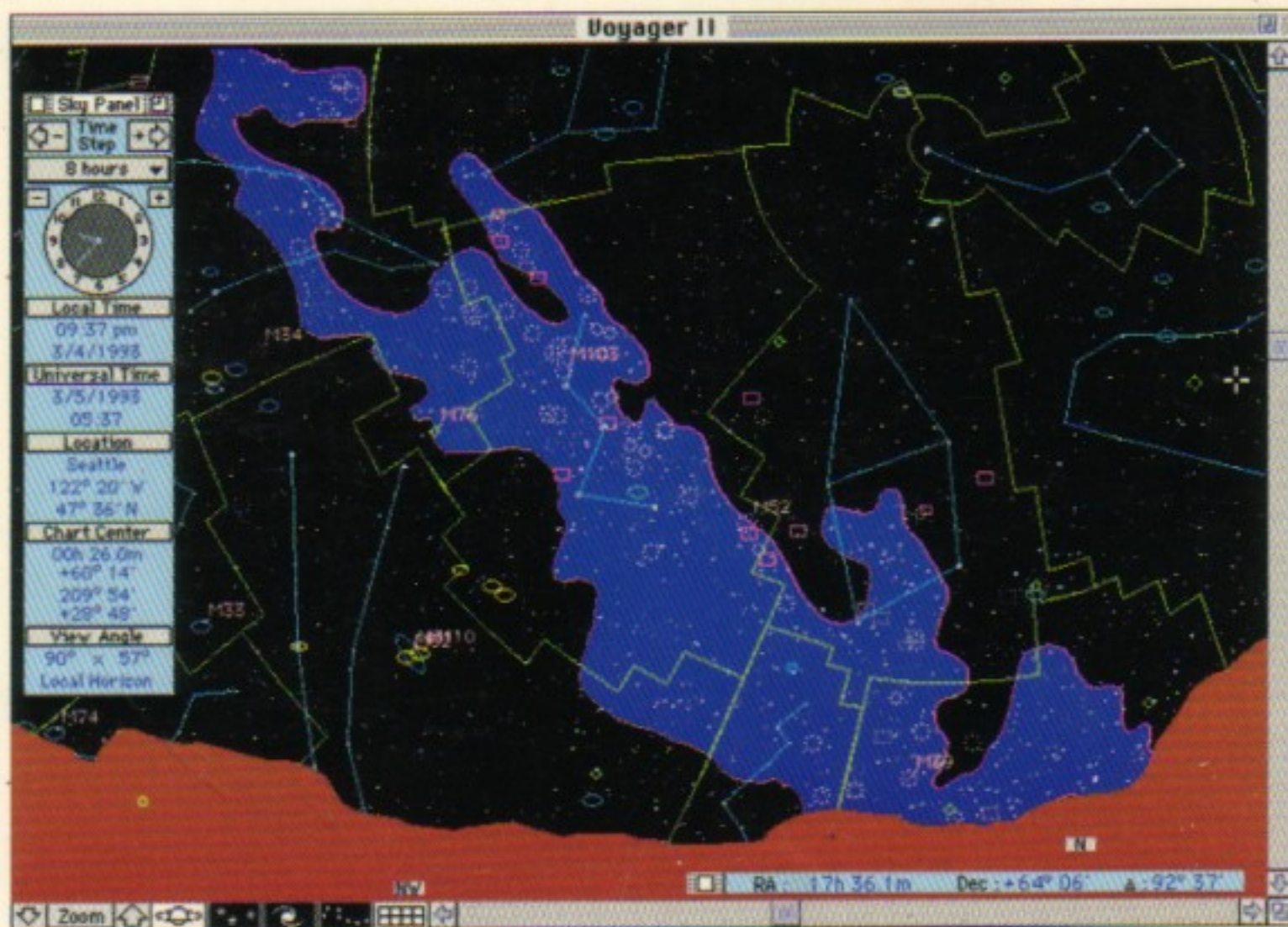
Unmatched capabilities and features.

Animation:

Simulations of the sky and planetary motions.

Educational:

Used in many colleges and universities.



The Voyager II screen display with the Milky Way and local horizon

Carina
Software

830 Williams Street
San Leandro, CA 94577
(510) 352-7328

Requirements:

Minimum requirements are one megabyte of free RAM, a hard disk, and System 6.0.5 to 7.x. Compatible with all Macintosh from MacPlus to Quadra, including Powerbook and Performa. Large monitors and data extensions need 1.5 to 2.5 meg of free RAM. Not copy protected. Color recommended.

Program Disk

MV28617

Voyager II

the Dynamic Sky Simulator™

for the Macintosh™

Sky Data

Voyager II

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for the Macintosh™

Sky Pictures 1

Voyager II

the Dynamic Sky Simulator™

for the Macintosh™

Sky Pictures 2

Voyager II

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Product Price List

Voyager II, the Dynamic Sky Simulator™ \$159.95
Includes a program disk, a data disk, two picture disks with a sample of images, and a complete instruction manual.

Special Pricing: Order Before Apr 93 - Voyager II, the Dynamic Sky Simulator™ \$120.00

Special Pricing: Limited Time - Voyager II, the Dynamic Sky Simulator™ plus \$140.00
your choice of SAO Stars or all three Image Sets

Voyager II, Upgrades

Upgrade from version 1.2 \$ 50.00

Upgrade from version 1.2 (purchased after Feb 1, 1992) \$ 30.00

Upgrade from version 1.0 \$ 60.00

Includes a program disk, a data disk, two picture disks with a sample of images, and a complete instruction manual.

Optional Data Extensions for Voyager II:

SAO Stars: \$ 45.00
A three disk set (210,000+ stars). Includes stars from mag 8.0 to mag 10 from the SAO Catalog.
A Mac II class machine is recommended.

Deep Sky Objects: \$ 25.00
One disk (6000+ objects). Includes deep sky objects from the NGC, IC, UGC, and RC3 catalogs.
A Mac II class machine is recommended.

General Catalog of Variable Stars (GCVS4): \$ 25.00
One disk (28400+ stars). Includes complete data on magnitude variation, period, epoch and variable type.
A Mac II class machine is recommended.

Double Stars: \$ 25.00
One disk (20000+ stars). A subset of the Washington Double Star Database. All stars with primary brighter than magnitude 10.0 and secondary brighter than magnitude 11.5. Includes magnitudes, spectral type, separation, position angle, epoch, and ADS number.
A Mac II class machine is recommended.

Special Pricing: All sky data (SAO, Deep Sky, GCVS, & Doubles) \$100.00

Optional Image Sets for Voyager II:

Image Set 1 - Planets: \$ 20.00
A two disk set. PICT planetary images from NASA space missions.

Image Set 2 - Milky Way: \$ 20.00
A two disk set. PICT images of clusters and nebula in the Milky Way.

Image Set 3 - Galaxies: \$ 20.00
A two disk set. PICT images of galaxies and other interesting objects.

Special Pricing: all three Image Sets \$ 50.00

System Requirements:

Voyager II, the Dynamic Sky Simulator™ for the Macintosh™ requires a *minimum* of one megabyte of free RAM, a hard disk, and System 6.0.5 or greater, or System 7.x. Large monitors and color displays require additional RAM. Voyager II is not copy protected.

The price of Voyager II is \$159.95 plus shipping and tax. Upgrades from previous versions are available. Educational site licenses are available. California residents add 8.25% sales tax.

Remittance should be made by check or money order payable to Carina Software in U.S. funds. MasterCard and Visa are also accepted. Please allow 2-3 weeks for delivery. Available now.

Shipping:

U.S. (including AK, HI, PR, and Guam):	\$ 6.00
Continental U.S. -2nd day air	\$ 8.00
Continental U.S. - COD	\$12.00
Canada: (air mail)	\$ 8.00
Western Europe: (air mail)	\$18.00
Mexico and South America: (air mail)	\$18.00
Australia and : (air mail)	\$25.00
Japan, New Zealand, and East Asia: (air mail)	\$18.00
Other Foreign: (air mail)	\$25.00
Extension Disks with order (US & Can):	No charge
Extension Disks with order (Foreign- Add):	\$ 4.00
Extension Disks only (US and Canada):	\$ 4.00
Extension Disks only (Australia):	\$ 8.00
Extension Disks only (Other Foreign):	\$ 6.00

Order Form

For upgrades or extension disks, please provide your disk serial number. If you have not registered your version of Voyager, please return the registration form (or a photocopy of the original disk) with your order. If you purchased Voyager 1.2 after February 1, 1992, please include proof of purchase for the reduced upgrade price. Please print legibly.

Voyager Serial No. _____

SHIP TO:

Date _____

Name: _____

Institution: _____

Address: _____

City: _____

State: _____ Country: _____

Postal Code: _____

Voyager II for the Macintosh: \$ _____

SAO Stars \$45 _____

Deep Sky Objects \$25 _____

Variable Stars \$25 _____

Double Stars \$25 _____

All Sky Data \$100 _____

Image Set 1 \$20 _____

Image Set 2 \$20 _____

Image Set 3 \$20 _____

All Image Sets \$50 _____

Voyager II & Extensions subtotal: \$ _____

Sales Tax:(CA residents only) \$ _____

Shipping Charges: \$ _____

Total amount: \$ _____

MasterCard or Visa charges:

Card No: _____ Exp: _____

Name on card _____

Signature: _____

Phone No.: _____

Please give phone number for questions or problems with order.

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Software

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San Leandro, CA 94577
(510) 352-7328

FAX 510-352-2343

Read Me First

Installation

The following instructions will get you started quickly with VOYAGER II.

Installation on a Hard Disk

VOYAGER II comes with four disks:

- Voyager II program
- Sky Data
- Sky Pictures 1
- Sky Pictures 2

If you are using a monochrome display, you may choose not to install the sky pictures as they are an optional part of the program. To install VOYAGER II with the data and pictures included, you will need approximately 3,000K (3 MB) of free space on your hard disk.

- 1.) Insert the Voyager II program disk and open the disk icon.
- 2.) Copy the Voyager II folder from the program disk to your hard disk.
- 3.) Insert the Sky Data disk and open the disk icon.
- 4.) Drag all folders on this Sky Data disk into the Voyager II folder on your hard disk.
- 5.) Now open the Voyager II folder on your hard disk. Inside this folder you will see a folder called Sky Pictures.
- 6.) Insert the Sky Pictures 1 disk and open the disk icon.
- 7.) Drag all files on the Sky Pictures 1 disk into the Sky Pictures folder on your hard disk.
- 8.) Repeat steps 6 and 7 for the Sky Pictures 2 disk.

This completes the VOYAGER II installation. There are many optional data and image disks which are available for Voyager II. When you are installing any of the extension disks, there are two rules to follow:

- 1.) All data files go into the Sky Data folder (which is inside the Voyager II folder).
- 2.) All picture files go into the Sky Pictures folder (which is also inside the Voyager II folder).

Memory Requirements

The basic program will run in 1 megabyte of free RAM on a machine with a 640 x 480 or smaller monochrome, gray scale, or color monitor. However, there may be some limitations using extended data and with high resolution printing. VOYAGER II is shipped with a multifinder partition of 1280 K which is sufficient for basic operation. If you have additional free RAM, we recommend that you increase the memory partition to about 1500 K. If you are using a large monitor, you will need even more RAM. We recommend 2000 K to 3000 K depending on how you use the program. There is no need to go much beyond 3000 K since the program will never use that much RAM.

Other Suggestions

Make backup copies of the floppies, especially the program disk. Do not remove the write protection to prevent a viral infection of your master disks. Also, copy the registration number from your registration form to the inside cover of the manual for future reference.

Read Me Second

Get Acquainted

After VOYAGER II is successfully installed, you should get acquainted.

The very first thing you should do is create your own Startup file. The Startup file remembers all of the important program parameters and sets them the way you want whenever you launch VOYAGER II.

Explore the menus to see where things are located. We recommend that you set your location to where you live or where you observe the sky. Other things such as the Sky View, the magnitude limits, the time format, the type of objects displayed, the location and size of the floating windows, and the Chart Preferences should also be set the way you like them before you create your own startup file.

When you are ready to save the Startup file, be sure to select "Save Settings..." and NOT "Save Settings and Time..." from the file menu. Without the time, the program will read the system clock when it is launched and VOYAGER II will have the current time (assuming your system clock is correctly set). You should replace the Startup file that came with VOYAGER II. Check the manual if you think you need help with this.

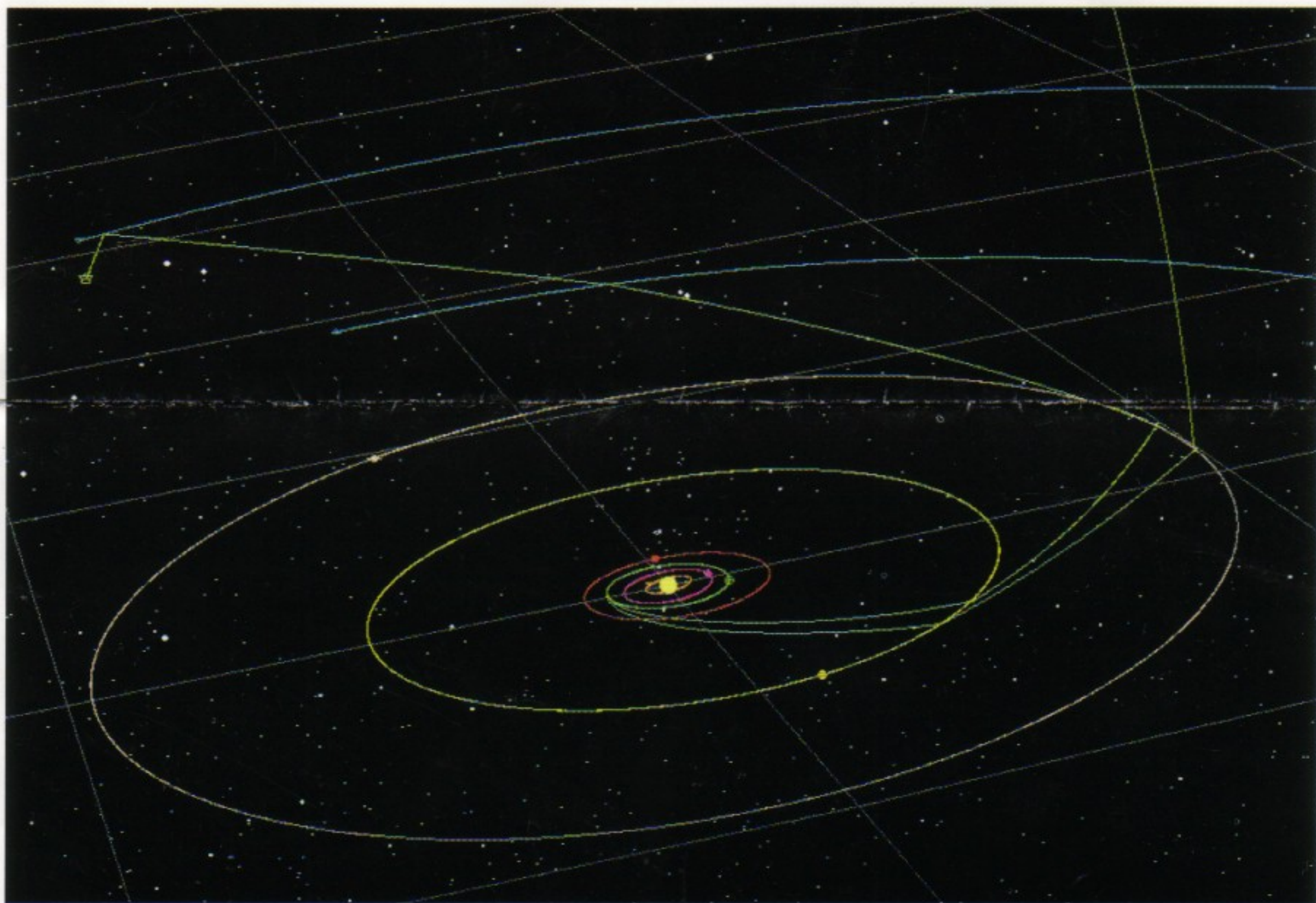
After you have explored the menus and saved your own Startup file, we recommend that everyone try the Settings files in the Demos folder. These are just examples of what you can do with VOYAGER II. Do not be shy about altering the parameters and exploring things on your own. See the manual if you think you need help with opening a Settings file.

Voyager II

the Dynamic Sky Simulator™

For the Macintosh™

Voyager II is the next generation of astronomy software, simulating the sky for any time and location. Traveling through the solar system, you will see the seasonal polar caps of Mars, the whirling moons of Jupiter, the changing aspect of Saturn's rings, and the close orbit of the moon Charon about Pluto. Display a panoramic view of the sky showing tens of thousands of stars embedded in the Milky Way. Study the distribution of bright galaxies and nebulae, or pinpoint the location of black holes and quasars. Re-create historic NASA missions to the outer planets, or follow the spacecraft Giotto as it encounters Comet Halley. These are but a sample of Voyager II's impressive capabilities.



The path of the Voyager I and II spacecraft

Carina Software presents Voyager II, the Dynamic Sky Simulator™ - an astronomy program for students and teachers, space enthusiasts and amateur astronomers. Voyager has been the leading astronomy program since its introduction in 1988. Voyager II is a new, expanded version of the original program. More than two years in development, it features support for 256 colors, high resolution printing, a large expandable database, and system 7.0 compatibility. Using the powerful graphics and color capabilities of the Macintosh, Voyager II will transform your computer into a dynamic personal planetarium.

Sky Controls:

Voyager has been widely praised for its carefully crafted interface. A mouse click identifies any object in the field, and a double click centers it. Drag-select a section of the sky to zoom and center in a single step. Use scrollbars with linked coordinate dials to move from Leo to Lyra. Zoom buttons and a popup menu give precise control of the field of view.

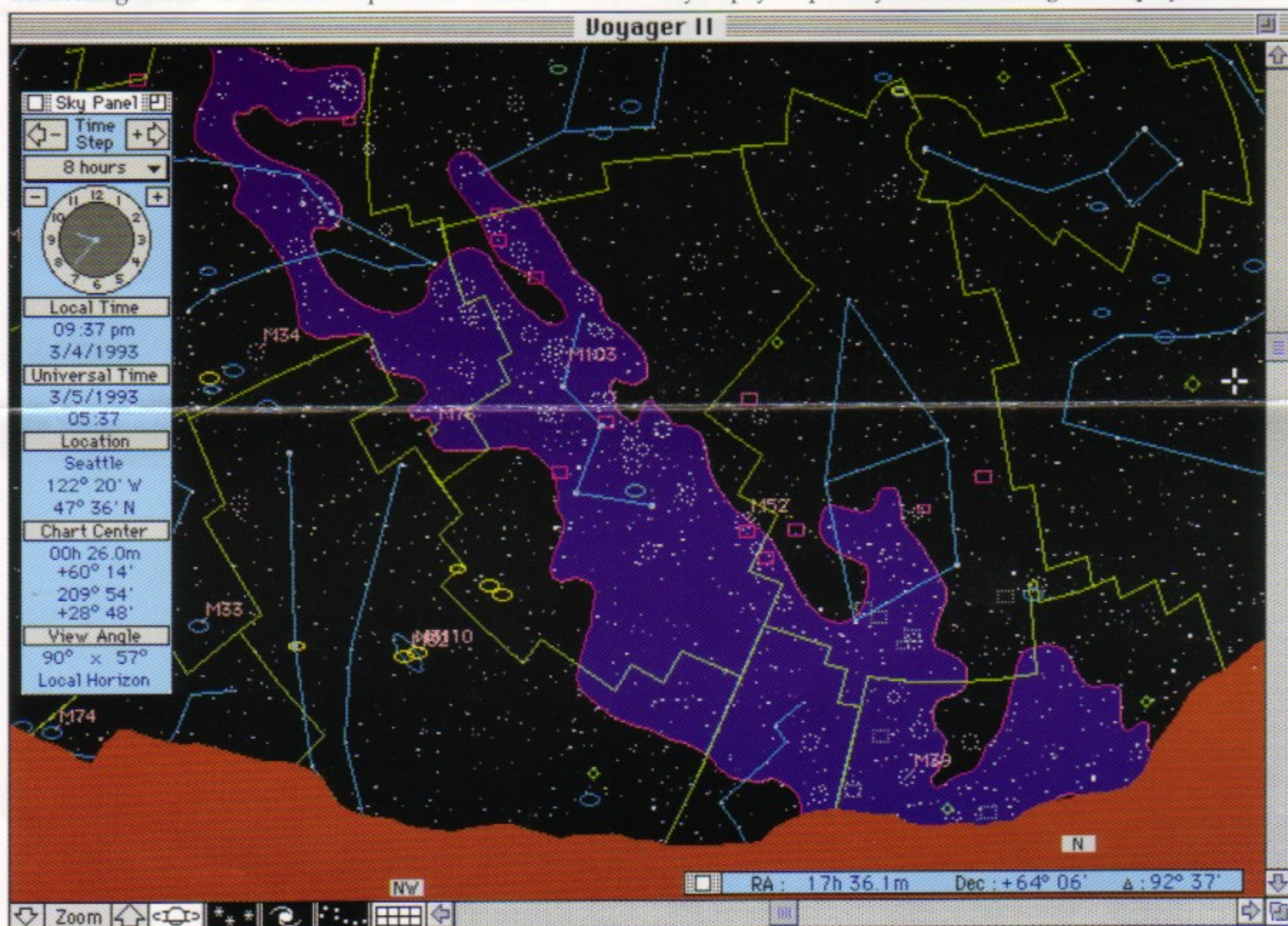
A floating Sky Panel displays such pertinent information as the current time, observing location, and chart center. Buttons provide immediate access to common display options: planets, stars, deep sky objects, constellations, and celestial grids. Other floating windows control the motion of the planets and report the coordinates of the cursor. Hiding the floating windows will create a panoramic celestial view.

To select an observing site, click anywhere on a map of the Earth. To change the time, drag the hands of the panel clock to a new setting. Use Voyager II's time buttons to quickly travel through thousands of nights, forward or backward, animating the motions of the heavens. Return to the present to see the sky from your own backyard - complete with stars, planets, galaxies, nebulae, and Milky Way.

Voyager quickly calculates the complex motions of planets and plots the positions of thousands of stars and galaxies. With other software, even the most patient user becomes frustrated when time is stolen by endless disk access and computation. Voyager II's new high speed algorithms draw the sky 2 to 4 times faster than other programs. Planetary calculations are executed up to 5 times faster. Voyager II offers superior performance and unmatched ease of use.

Sky Display:

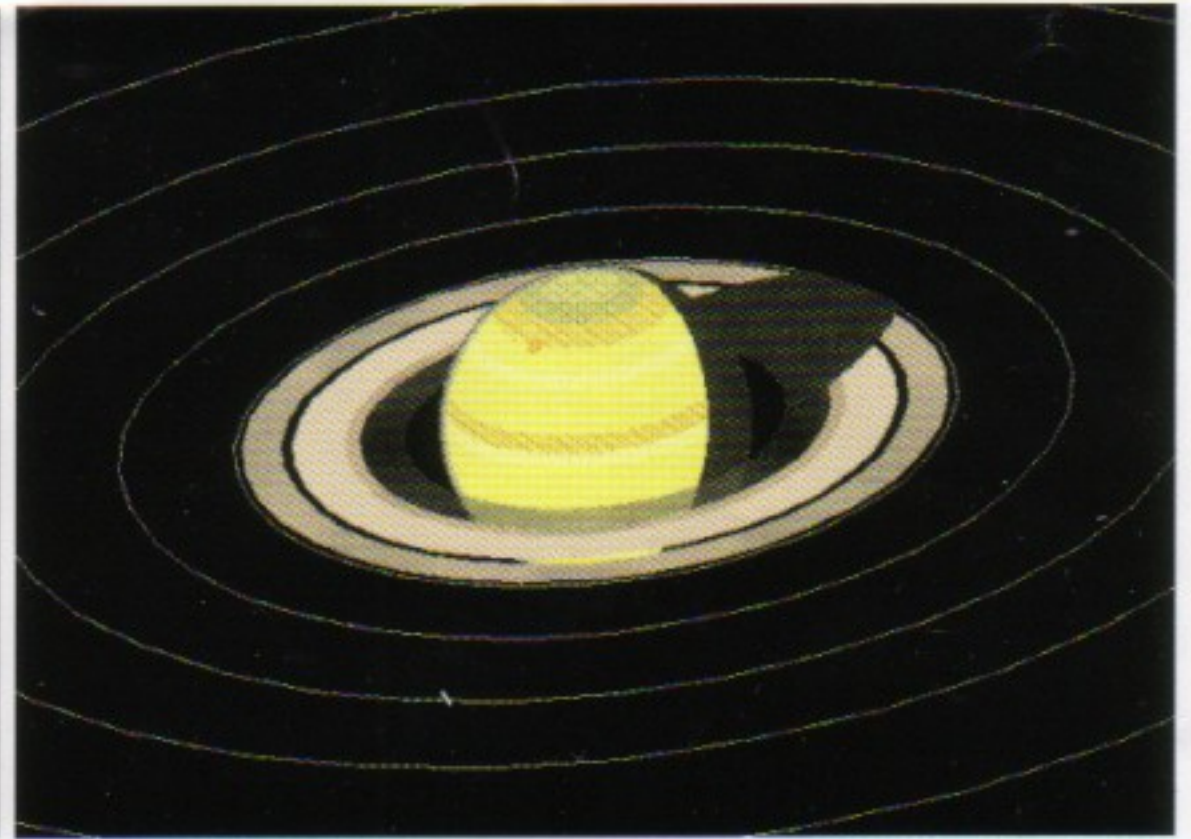
Voyager II displays the sky with three different projections having fields of view of 180°, 270° and 360° respectively. With each projection, you can choose either equatorial, altazimuth, ecliptic, or galactic coordinates. Tailor the screen to your interest by selecting the objects to display, and then zooming to the desired field of view. Label planets, stars, galaxies and grid lines. To map large regions of the sky, show constellation boundaries or the Milky Way outline. Changes occur quickly, so you pay no penalty for customizing the display.



Local View of the sky showing some of Voyager II's display options.



The Great Andromeda Galaxy - M 31



Saturn and its moons as seen from Uranus

Celestial Database:

Voyager II has a standard database of over 50,000 objects:

Standard Data:

- over 47,000 SAO stars complete to magnitude 8.0.
- over 1800 binary and variable stars.
- over 4000 deep sky objects - galaxies, nebulae, etc.
- the Sun, Moon, and nine planets.
- the major satellites of the planets.
- hundreds of comets and asteroids.
- proper names of 270 bright stars.
- the Bayer and Flamsteed star designations.
- the 88 constellations and common asterisms.
- the constellation boundaries.
- mythological sky figures.
- the Milky Way outline.
- the major NASA missions to the outer planets.
- selected PICT images of celestial objects.

Optional Data:

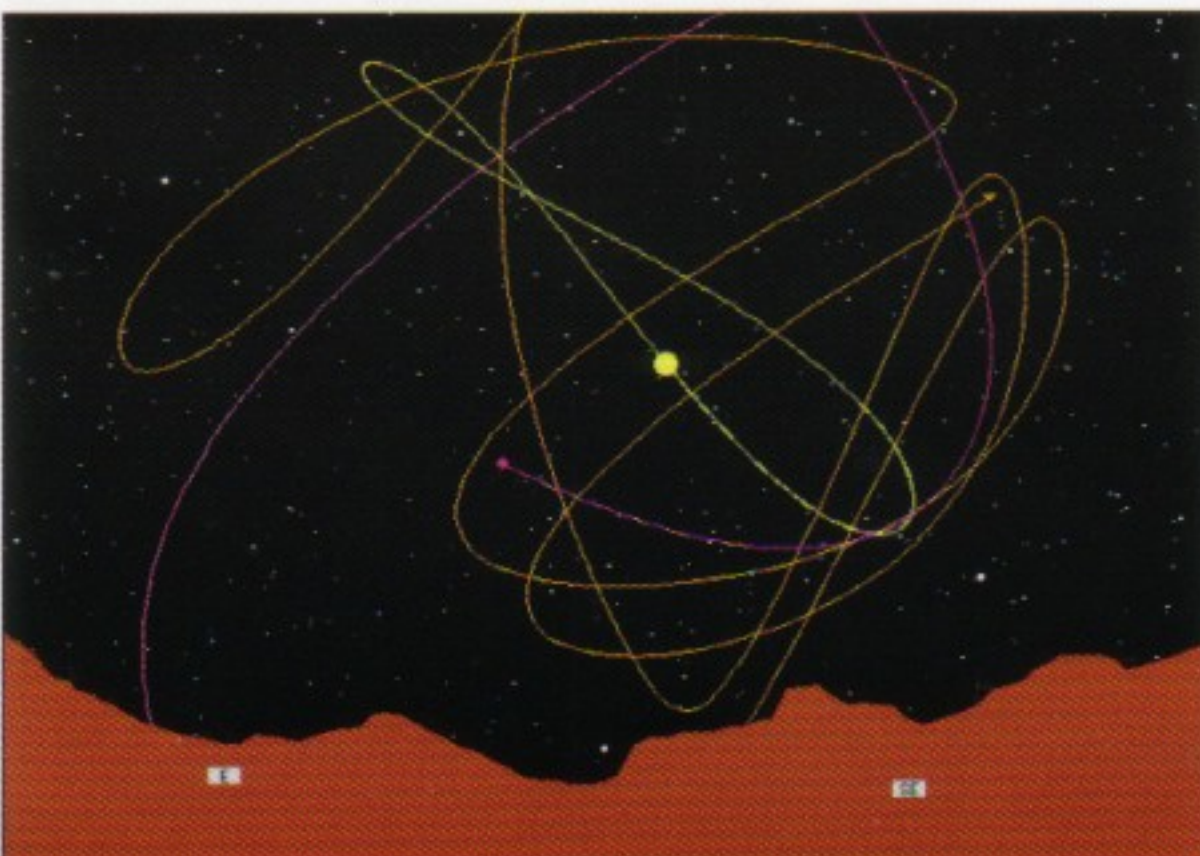
- an additional 210,000 SAO stars to mag 10.0.
- an additional 6000 deep sky objects.
- General Catalog of Variable Star - 28400 objects.
- double stars to magnitude 10.0 - 20000 objects.
- additional PICT images of celestial objects.

You can search Voyager II's large database for any object, then center it on the screen. Search by name, catalog number, or description. The novice can locate the "Big Dipper" and the "North Star", while sky veterans can find "NGC4565", the quasar "3C273", or the black hole candidate "Cygnus X1". Alternately, you can find an object using scrollable lists of stars names, constellations, asterisms, and famous nebulae.

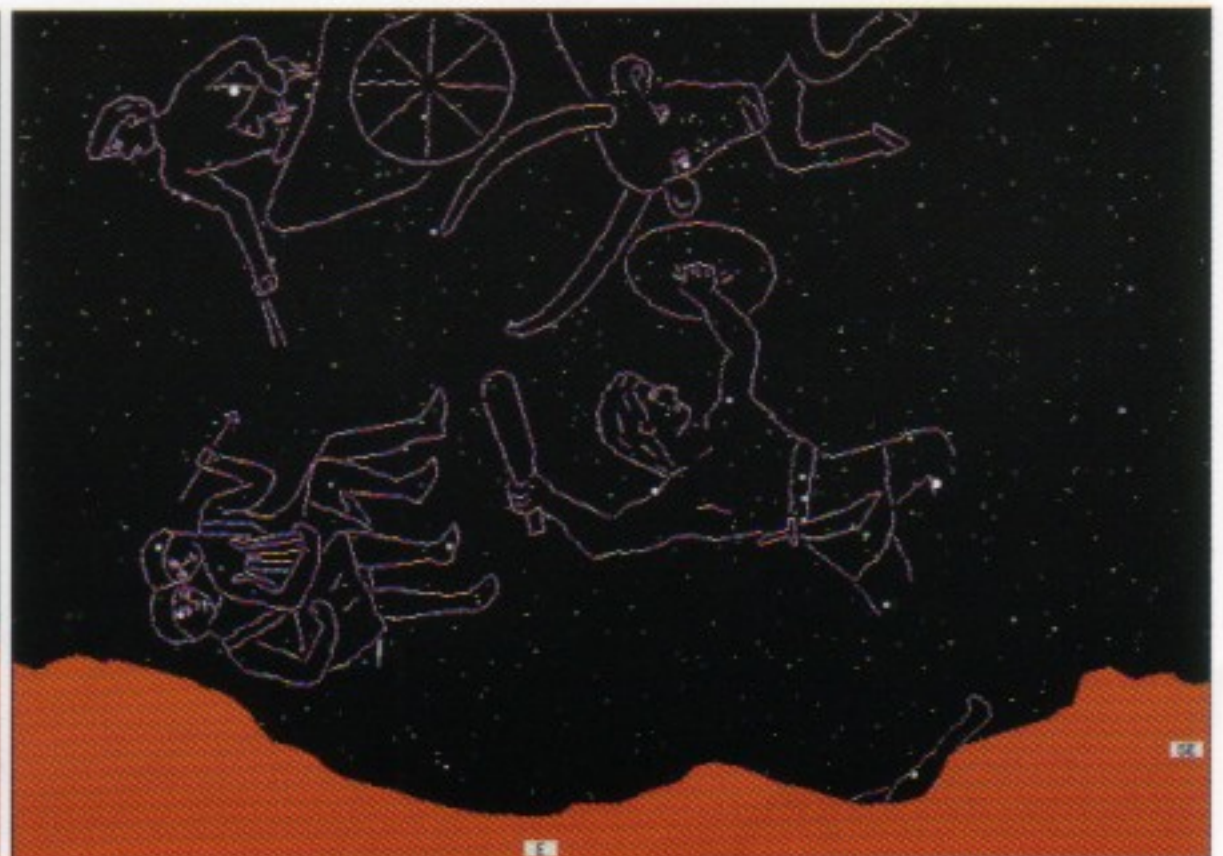
Tour the Solar System:

Voyager II allows one to view the sky from any location in the solar system. A lunar eclipse on Earth becomes a solar eclipse when seen from the Moon. Viewed from Pluto, the inner planets huddle near the Sun which is now only a bright star in the Milky Way.

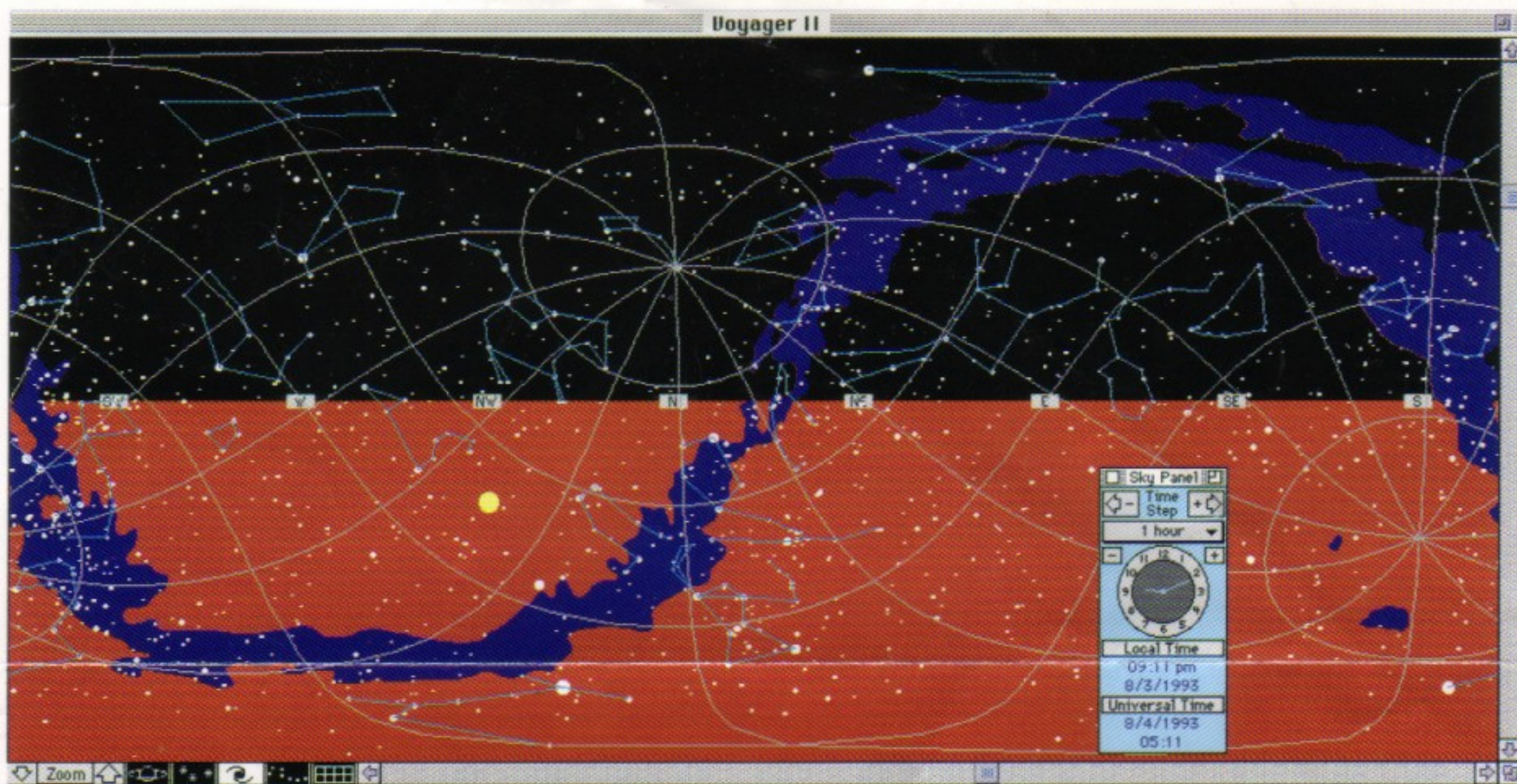
The motion of the planets can be animated with impressive speed. Plot the eccentric orbit of Pluto, or watch the shifting tail of a comet as it races past the Sun. In just seconds, track a retrograde loop of Mars, or the path of the Moon's shadow on the Earth during a solar eclipse. Follow the path of the NASA missions to the outer planets beginning in 1971. Customize the solar system by installing entire families of asteroids or comets. Use the Planet Gallery to reveal detailed models of each planet showing phase, orientation, major surface markings, and the orbits of the major satellites.



The Sun's analemma with the paths of Mercury and Venus



Mythological Figures of the winter sky



Voyager II's 360 degree view of the sky

Other Powerful Features:

Display pictures of celestial objects in gray scale or 256 colors. Add your own scanned images to those included.

Customize the sky display with colors of your choice for grids, labels, windows, background sky, and other items.

Display star symbols in monochrome, gray scale, or by spectral color.

Print high resolution star charts on any Macintosh compatible printer.

Save any screen as a PICT file to edit in a graphics program.

Include your own data files of celestial objects and plot their positions on the sky.

Create a custom horizon to match that of your own backyard or favorite observing site.

Measure angular separation and sky coordinates from digital readouts of the cursor position.

Search for conjunctions of the Sun, Moon or planets over decades or centuries of time.

Enter the classic orbital elements of any object, and display its path about the Sun.

Customize the solar system and follow the motion of as many as 32 comets, asteroids, and spacecraft.

Graph a planet's cyclic change in magnitude, angular size, distance, or percent illumination.

Experience a 3D animated view of the stars within 60 light years of the Sun.

Educators and astronomers have recognized Voyager as a powerful learning tool, and it has been adopted by leading universities world-wide for instruction in astronomy. No other program offers the range of features, the ease of use, and the level of performance of Voyager II. It is an astronomical adventure which will provide years of wonder and discovery.

System Requirements:

Voyager II is shipped with one program disk, one data disk and two image disks (800K). Minimum requirements are one megabyte of free RAM, a hard disk drive, and System 6.0.5 or greater, or System 7.x. Voyager II is compatible with all computers in the Macintosh family, from the MacPlus to the Quadra, as well as the Powerbook and Performa models. A color display is recommended. For use with large monitors or with data extensions, 1.5 to 2.5 megabytes of free memory are needed. Voyager II is not copy protected.

Carina
Software

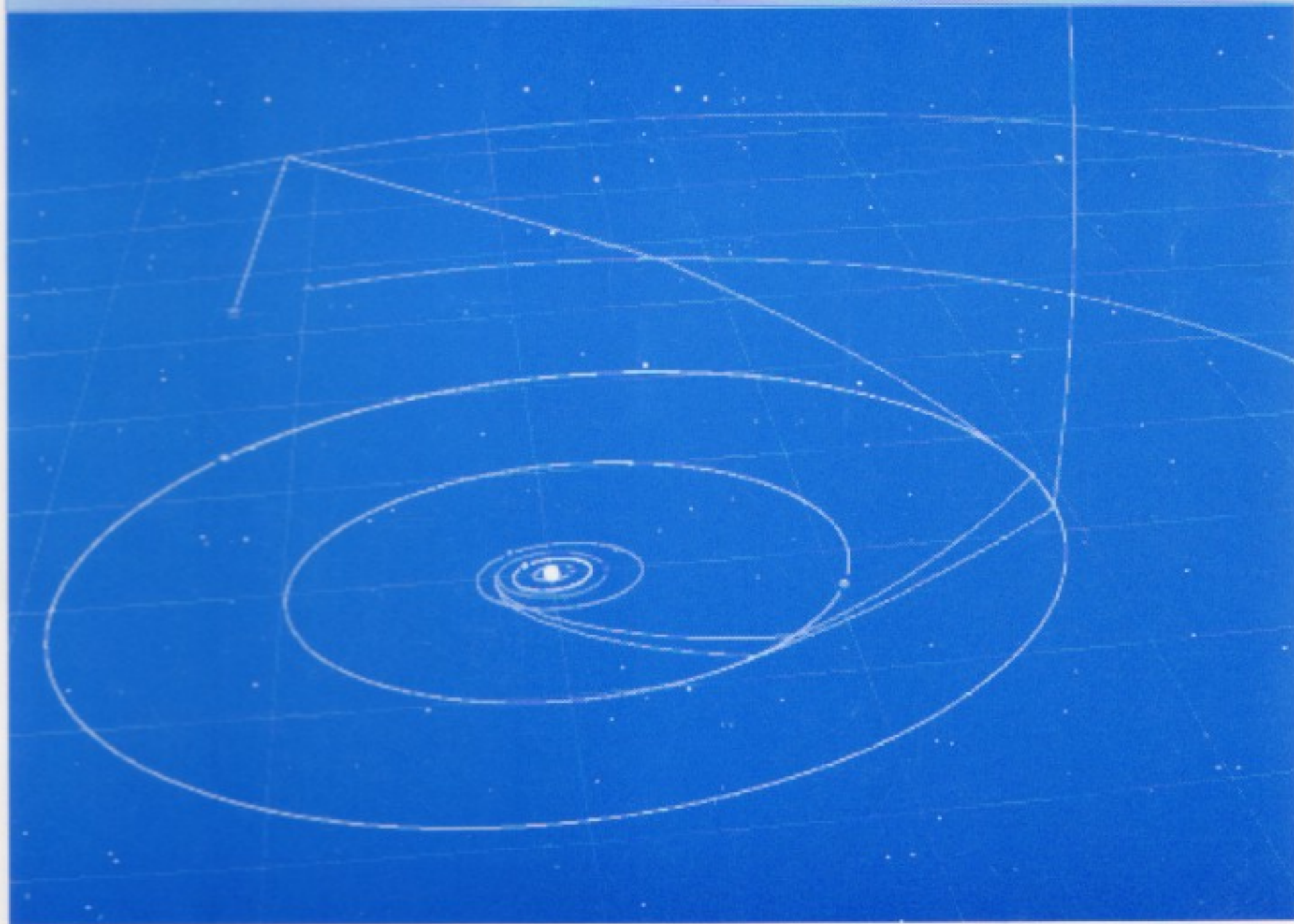
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The Horeshead Nebula

Voyager III

the Dynamic Sky Simulator™



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