

STAR AND SATELLITE PATH FINDER

EDMUND SCIENTIFIC CO.
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Barrington, New Jersey 08007
Manufacturers of
FINE ASTRONOMICAL TELESCOPES
AND ACCESSORIES

Bright Stars Visible at 40° Latitude

STAR NAME	MAGNITUDE	CONSTELLATION
A. Si' ri us	-1.6	Ca' nis Ma' jor
B. Ve' ga	0.1	Ly' ra
C. Ca' pell' a	0.2	Au' ri' ga
D. Arc' tu' rus	0.2	Bo' o' tes
E. Ri' gel	0.3	O' ri' on
F. Pro' cy on	0.5	Ca' nis Mi' nor
G. Al' tair'	0.9	A' quil' a
H. Bet' el geuse	0.9	O' ri' on
J. Al' deb' a' ran	1.1	Tau' rus
K. Pol' lux	1.2	Gem' in' i
L. Spi' ca	1.2	Vir' go
M. An' ta' res	1.2	Scorp' i' us
N. Fo' ma' haut	1.3	Pis' ces Aus' tri' nus
P. Den' eb	1.3	Cyg' nus
Q. Reg' u' lus	1.3	Le' o
R. Cast' or	1.6	Gem' in' i

METEORS

Meteor showers are interesting and can only be appreciated without optical aid. On these dates the centers of radiant are best observed after midnight without a moon in the sky.

Shower	Date	One observer rate per hour
Quadrantids	Jan. 3	40
Lyrids	Apr. 21	15
7Aquarids	May 4	20
8Aquarids	July 29	20
Persids	Aug. 12	50
Orionids	Oct. 20	20
Taurids	Oct. 31	25
Leonids	Nov. 16	15
Geminids	Dec. 13	50
Ursids	Dec. 22	15

SATELLITE LOCATING

(Continued from Front)

path through the stars. Locate these stars on the chart set for the time of passage and you will know exactly where to look in the sky. If the Satellite position is given in degrees above the horizon or from the zenith, the angle scale in degrees around the periphery can be used as an aid in obtaining the right viewing angle. Suspend the chart from the hanger hole and find the predicted angle radiating from the center (i.e. brass grommet) and you have the appropriate direction. Lay a pencil in line with the grommet and the angle for easier sighting.

THE ZODIAC

- | | |
|----------------------|--------------------------------|
| 1. Aries, The Ram | 7. Libra, The Scales |
| 2. Taurus, The Bull | 8. Scorpius, The Scorpion |
| 3. Gemini, The Twins | 9. Sagittarius, The Archer |
| 4. Cancer, The Crab | 10. Capricornus, The Sea Goat |
| 5. Leo, The Lion | 11. Aquarius, The Water-Bearer |
| 6. Virgo, The Virgin | 12. Pisces, The Fishes |

PLANET PLACES

The constellations along the ecliptic form the Zodiac. The planets move along this belt usually from West to East. Their positions are given in the lower table, with the number indicating the constellation in which the planet should be found. Where there are two numbers in a block, it means a shift during the month. Learn the bright star positions and the planets will appear as the strangers. See numbered constellations above.

Year	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEP	OCT	NOV	DEC
1971												
VENUS	7	9	10-11	11-12	12-1	2	3	SUN	SUN	SUN	SUN	9-10
MARS	7	8	9	8	10	10	10	10	10	10	10-11	11-12
JUPITER	7	8	8	8	8	7	7	7	8	8	8	SUN
SATURN	1	1	1	1-2	SUN	SUN	2	2	2	2	2	2
1972												
VENUS	11-12	12-1	1-2	2-3	3-4	3-4	3	3-4	4-5	5-6	7	SUN
MARS	1	1-2	2	3	3-4	4	5	5-6	6	7	7-8	SUN
JUPITER	SUN	SUN	10	10	10	10	10	9	9	10	10	10
SATURN	2	2	3	3	3	3	SUN	SUN	3	3	3	3
1973												
VENUS	9-10	10-11	12	1	2-3	3-4	5	6	7-8	8-0	0 10	10-11
MARS	9	9-10	10	11	11-12	12	1	1-2	2	2	1	1
JUPITER	10	10	11	11	11	11	11	11	11	11	11	11
SATURN	3	3	3	3	3	3	3	3-4	4	4	4	4

PLANET FACTS

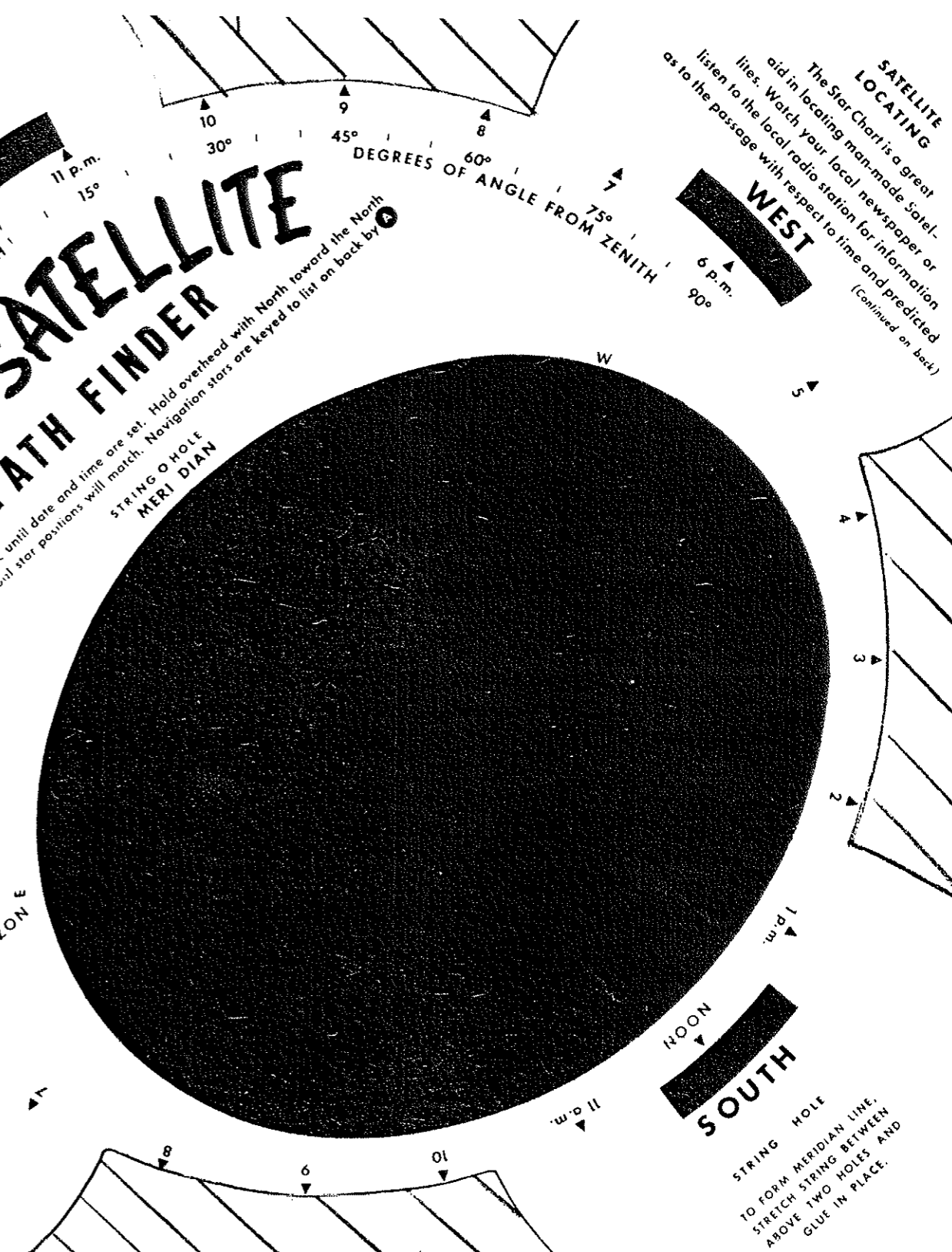
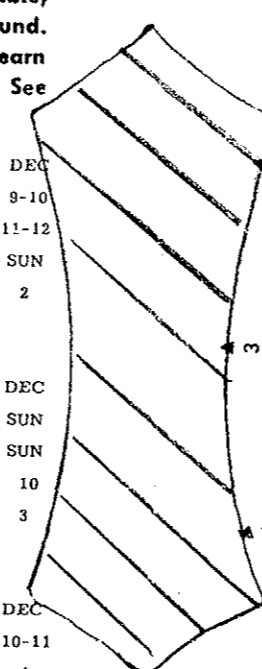
PLANET	SYMBOL	DISTANCE FROM SUN (Miles)	DIAMETER (Miles)	NUMBER OF MOONS	LENGTH OF YEAR	EQUATORIAL ROTATION
SUN	☉	—	864,000	—	—	24.7 days
MERCURY	☿	36,000,000	3,010	0	88 days	58.4 days
VENUS	♀	67,000,000	7,610	0	224.7 days	247 days
EARTH	♁	92,000,000	7,918	1	365.3 days	23 h 56.1 m
MARS	♂	141,500,000	4,140	2	687 days	24 h 37.4 m
JUPITER	♃	483,300,000	86,900	12	11.86 yrs.	9 h 50 m
SATURN	♄	886,000,000	71,500	10	29.46 yrs.	10 h 2 m
MOON	☾	from Earth 238,000	2,160	—	—	27 days 7.7 h

20M-1-71

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STAR AND SATELLITE PATH FINDER

DIRECTIONS: Turn disc until date and time are set. Hold overhead with North toward the North Pole. Chart and actual star positions will march.
STRING O HOLE MERIDIAN



STRING HOLE TO FORM MERIDIAN LINE. STRETCH STRING BETWEEN ABOVE TWO HOLES AND GLUE IN PLACE.

SATELLITE LOCATING
The Star Chart is a great aid in locating man-made satellites. Watch your local newspaper or listen to the local radio station for information as to the passage with respect to time and predicted (Continued on back)

This chart is designed for latitude 40° N. but is useful for any mid-latitude area of the Northern Hemisphere.