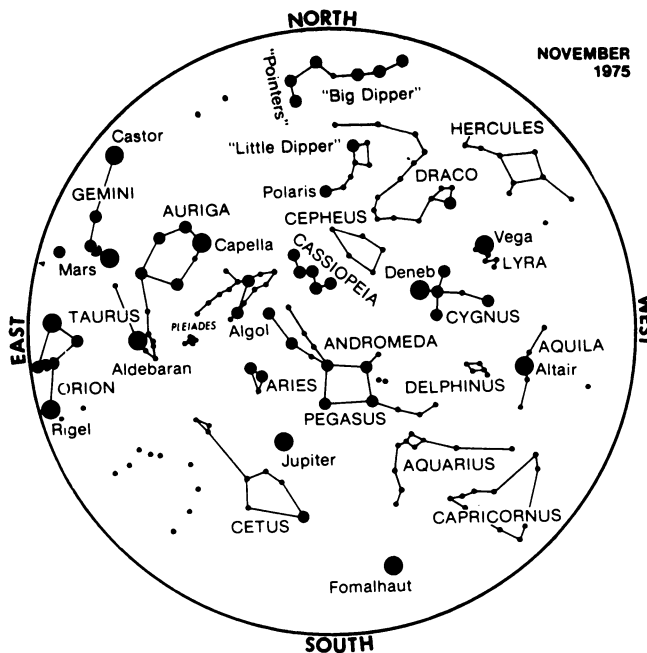


STARS OF NOVEMBER

CELESTIAL TIME TABLE

Nov. 1	8:00 pm EST	Moon nearest, distance 224,000 miles
3	8:05 am	New moon, partial eclipse of sun visible in Antarctica
7	1:00 am	Venus farthest west of sun
10	1:21 pm	Moon in first quarter
13	7:00 pm	Moon farthest, distance 252,000 miles
15	2:00 pm	Moon passes north of Jupiter
18	5:28 pm	Full moon, total eclipse of moon visible in eastern North America
21	noon	Moon passes south of Mars
23	11:00 pm	Moon passes south of Saturn
26	1:52 am	Moon in last quarter
28	4:00 pm	Mercury behind sun
29	2:00 pm	Moon passes south of Venus
	8:00 pm	Moon nearest, distance 227,000 miles



BY JAMES STOKLEY

November will bring us the second of 1975's total eclipses of the moon on the early evening of Nov. 18. Unlike its predecessor in May, which could be seen throughout North America, this will be visible only in the eastern part of the continent. When the moon rises in the east as the sun is setting in the west, the eclipse will already have begun.

In eastern standard time, the moon starts to enter the earth's shadow, called the umbra, at 3:39 p.m. and will be completely immersed in it at 5:03 p.m. Then the total eclipse begins. This is about the time that the moon rises in the vicinity

of New York City, but even if the sky is clear it will take half an hour or more until it is high enough to be seen easily.

The total eclipse ends at 5:45 p.m. and at 7:09 p.m. the moon leaves the umbra. If your moonrise (and sunset) is later than these times, as it will be in the western states, the event will not be visible.

Three bright planets shine in the November evening sky. Jupiter, the most prominent, is high in the south in the constellation Pisces and visible until early morning. Mars, less than a third as bright, rises about 8 p.m. on the first and before 6 p.m. at the end of the month. It's in

Gemini and becomes very conspicuous later in the evening. You can easily recognize it by its red color.

The last of the trio is Saturn, more than a quarter as bright as Mars. It's in Cancer, rising about 10:30 p.m. on Nov. 1 and 8:30 p.m. on Nov. 30.

Eight first-magnitude stars are visible in mid-evening this month but several are rather low and not as bright as when they are more nearly overhead. The most prominent is Capella, toward the northeast in Auriga, above Mars. Vega, to the northwest in Lyra, is about as bright.

Toward the west, to the left of Lyra, is the Northern Cross, now standing upright, with Deneb at the top. With additional stars to each side this forms the constellation Cygnus. Lower, and farther to the left look for Aquila, with Altair. Another first-magnitude star is Fomalhaut, low in the southwest, in Piscis Austrinus.

Venus, now brighter than any other planet, appears in the east in early morning hours. On Nov. 7 it will be farthest west of the sun, rising about four hours ahead of sunrise. It's now so brilliant that it dominates the eastern sky and continues to be visible well after the coming of dawn has made all the stars fade from view. If you look in the right place, you can even see it after the sun has risen. □

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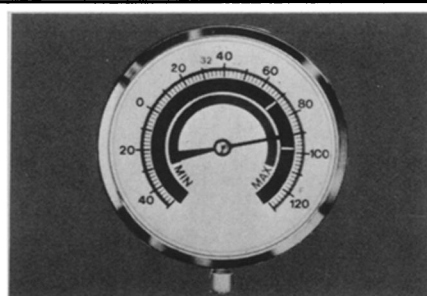
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