## skywatch

# October ends DST

October is the first full month of autumn and the last month of Daylight Saving Time. The Orionia meteor shower might be better than usual this year due to the proximity of Halley's Comet.

The length of the day decreases by I hour and 21 minutes this month. On the last sunrise was at 7:29 a.m. and sunset at 7:13 p.m., Eastern Daylight Time, for a total of 11 hours and 44 minutes of sunlight. On the Sist, sunrise is at 7:04 a.m. and sunset at 5:27 p.m., Eastern Standard Time, for 10 hours and 23 minutes of sunlight.

The moon was at last quarter phase on the 7th. It can be used to locate the two planets in the morning castern say, On the morning of the 11th, the moon Is about 8 degrees above the red planet, when the planet is the bright contains gatar Venus, located below and to the left contains gatar Venus, located below and to the left contains gatar Venus, located below and to the left contains gatar Venus, located below and to the left contains gatar Venus, located below and to the left contains gatar Venus, located below and to the left contains gatar Venus, located below and to the left contains gatar Venus, located below and to the left contains gatar Venus, located below and to the left contains gatar Venus, located below and to the left contains gatar Venus, located below and to the left contains gatar Venus, located below and to the left contains gatar Venus, located below and to the left contains gatar Venus, located below and to the left contains and the left contains a located below and to the left contains and located loc

THE MOON can be seen in the southwest after sunset on the 16th. It is located midway between the star Antares and the planet Saturn. Antares, the orangish "heart" of Scorpius the scorpion, is to the felt of the moon. Saturn, located in the constellation of Libra, is to the right of the moon. By the end of the month Saturn will no longer be visible. The moon is at litrit quarter phase on the 20th. The bright attra above and to the left of the moon is Jupiter.

The Orionid meteor shower reaches its maximum on the morning of the 21st. Named for the constellation of Orion, from which the meteors (or shooting stars) appear to radiate, an average of 25 meteors per hour can be seen. It is possible that this year's Orionid shower could be better than issual. Meteors are rocks that tumble through space, or biting the sun. Some meteors are concentrated in an orbiting swarm which the earth passes through. As the meteors strike our upper atmosphere they burn because of friction, producing the streak of light we see.

The stream of meteors follow orbits that are very similiar to elliptical (oval) comet orbits. It is possible that some meteor swarms follow the same path that a comet, long since evaporated, followed. The Orbiod meteor shower is associated with Halley's Comet, which is drawing closer to the sun.

COMET HALLEY is about 134 million miles from Earth and 195 million miles from the sun. A concentration of meteors preceding the comet could put on a very nice display on the morning of the 21st. Perhaps meteors trailing behind the comet will put on a better display in mid-October next year.

Daylight Saving Time ends at 2 a.m. on the last Sunday in October, which is the 27th in 1985, Clocks will be set back one hour as we return to Eastern Standard Time.

will be act back one hour as we return to Eastern Standard Time.
Full moon is on the 28th. This is called the Huntier's Moon because its light was a help to hunters out after sunset. There will be an eclipse of the moon but it is not visible from our hemisphere. It will be seen best from the Indian Ocean.
On the morning of the 50th, the moon is located in the west, in Taurus, just below the Plelades take cluster. The Plelades lost like a tipy dipper and is a beautiful sight in a pair of binoculars. The Plelades no be recognized by using the meon as a guide on the morning of the 50th. The moon is located near the position Halley's Comet, the Cranbrook Institute of Science is planning a variety of apectal programs locluding planetarium shows and expanded hours in the observatory. For more information, call 645-3200.

### Church marks 25th year

Northbrook Presbyterian Church in Birmingham will celebrate its 25th anniversary with a dinner 5-8 p.m. Sunday, Oct. 20, at the San Marino Citib in Troy.

The church was formally recognized Oct. 16, 1950, with 183 members. Northbrook now has more than 1,100 members. Pastors are the Rav. Michael Dunkelberger and the Rev. Peter Moore.

Reservations are necessary for dinner at \$10 per person by calling 642-0200.

A special service will be held at the 0:30 a.m. and 11 a.m. worship services the same day.



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