eclipse. Apparently atmospheric conditions in the air through which the light passed caused its complete absorption. It is unlikely that similar conditions will prevail in June.

This is not the only eclipse of the month, for on the night of June 9, when the moon is new, its shadow will partly touch the earth. This will produce a partial eclipse of the sun, visible in Australia, where the date will be June 10.

The next total eclipse of the moon will come on Dec. 18. This will be visible completely in all of North and South America: the middle of the eclipse will come at 9:38 p.m., EST.

CELESTIAL TIME TABLE FOR JUNE

EDT	
2:00 pm	Moon passes Saturn
7:08 am	Moon in last quarter
1:00 pm	Moon passes Jupiter
6:00 am	Moon passes Mars
10:00 pm	Moon nearest, distance 222,100 miles
12:23 am	New moon; partial eclipse of sun visible in Australia
7:02 pm	Moon in first quarter
7:00 pm	Venus between earth and sun
4:57 pm	Sun farthest north; summer commences in Northern Hemisphere
8:00 am	Moon farthest, distance 252,-400 miles
9:09 pm	Full moon, total eclipse
3:00 am	Mercury behind sun
8:00 pm	Moon passes Saturn
	2:00 pm 7:08 am 1:00 pm 6:00 am 10:00 pm 12:23 am 7:02 pm 7:00 pm 4:57 pm 8:00 am 9:09 pm

Subtract one hour for CDT, two hours for MDT, and three hours for PDT.

• Science News Letter, 85:330 May 23, 1964

PHYSICS

No News Is Good News About Speed of Light

➤ A CASE of no news is good news has

now been made for the speed of light.

Three scientists have found that light waves and radio waves travel through space at the same speed, just as everyone has thought and all previous tests have shown.

One of the basic assumptions of modern physics is that all electromagnetic radiation, such as light and radio waves, travel at the same speed. The value now used for this is 186,291 miles per second, usually rounded off to 186,000 miles per second.

The "no-news" result is based on studies of radio waves emitted from individual flare stars. The studies were made by Sir Bernard Lovell, director of the Nuffield Radio Astronomy Laboratories, Jodrell Bank, and two U.S. astronomers, Dr. Fred L. Whipple, director, Smithsonian Astro-physical Observatory, Cambridge, Mass., and Dr. Leonard H. Solomon, also of the observatory.

These scientists found that bursts of light from flare stars up to 50 light years away are observed almost simultaneously as radio signals from the flare. This indicates that any difference in velocity of the two kinds of waves must be less than one part in a million.

Their conclusion confirms measurements of the velocity of electromagnetic radiation made on earth's surface. Their report is made in Nature, 202:377, 1964.

• Science News Letter, 85:331 May 23, 1964

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