

a coppery red color. This results from the earth's atmosphere, which acts like a prism and bends the sun's rays so that light falls into the shadow. Even at a total eclipse of the moon, with all direct sunlight cut off, it usually remains visible.

Since last Dec. 21 the sun has been moving northward in the sky. The end of this journey comes on Monday, June 21, at 10:56 a.m. EDT. The sun will then be standing directly over a point on the Tropic of Cancer in the Philippine Sea, about 900 miles due south of Osaka, Japan.

In countries north of the equator June 21 is the beginning of summer—and the longest day, as measured from sunrise to sunset. But in Australia, South Africa, Chile, and other southern countries, it is the shortest day and the beginning of winter.

Celestial Timetable for June

JUNE EDT

- | | | |
|----|----------------|--|
| 1 | 2:00 p.m. | Moon nearest, distance 225,000 miles |
| 6 | 8:12 a.m. noon | Moon in first quarter
Moon passes north of Mars |
| 11 | 3:00 p.m. | Mercury in superior conjunction |
| 13 | 10:00 p.m. | Full moon, partial eclipse |
| 17 | 6:00 a.m. | Moon farthest, distance 252,100 miles |
| 20 | 9:00 p.m. | Moon passes south of Saturn |
| 21 | 10:56 a.m. | Sun farthest north, summer commences in Northern Hemisphere, winter in Southern Hemisphere |
| 22 | 1:37 a.m. | Moon in last quarter |
| 27 | 2:00 p.m. | Moon passes north of Jupiter |
| 29 | 12:53 a.m. | New moon |
| | 8:00 p.m. | Moon nearest, distance 222,700 miles |
| 30 | midnight | Moon passes north of Venus |

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

• Science News Letter, 87:330 May 22, 1965

MEDICINE

Vaccine Prospect Seen For Respiratory Disease

► HOPE for a new vaccine that may protect children from severe respiratory disease was expressed in a report on adenoviruses.

The vaccine, which will not be perfected for at least another year, would incorporate three representative strains of adenovirus, a meeting of the Association of American Physicians in Atlantic City was told.

Dr. Julius A. Kasel of the laboratory of clinical investigations, National Institute of Allergy and Infectious Diseases, Bethesda, Md., reported studies showing that the 31 adenoviruses, a "family" responsible for severe respiratory disease in children, fall into three antibody-producing groups.

Adenoviruses 1, 2, 3, 4, 5, 6 and 7 are in the three groups responsible for all forms of acute respiratory disease in children. An estimated 15% to 20% of cases of pneumonia severe enough for a child's hospitalization are caused by adenoviruses. Another dread disease in children, called pharyngoconjunctival fever, is due to adenovirus infection.

The Federal Bureau of Prisons cooperated by permitting volunteers to take part in the study. Collaborating with Dr. Kasel were Drs. P. A. Banks, R. Wigand, Vernon Knight and D. W. Alling.

• Science News Letter, 87:331 May 22, 1965

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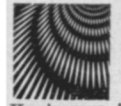
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