



◊ * ○ • SYMBOLS FOR STARS IN ORDER OF BRIGHTNESS

winter, on the other hand, when the sun is low and its rays strike the ground at a very low angle, the yard-square beam might be spread over as much as two square yards of ground. Hence the heating effect would be only half as much.

But this does not explain why on June 21, when these two factors are at their maximum, we do not have the hottest weather. The reason is that each night the earth loses a lot of the excess heat it gained during the previous daylight hours. During June, and even much of July, the short nights do not permit it to get rid of as much as it gained, and it continues to get warmer. Finally, by the end of July, it starts to suffer a net loss of heat, and then begins to get cooler. A similar effect, in reverse, is responsible for the fact that Dec. 22, when the sun gives the northern hemisphere the least heat, is not the coldest of the year.

Time Table for June

June	EDST	
2	11:38 p. m.	Moon passes Saturn
3	11:27 p. m.	Moon in first quarter
7	3:00 a. m.	Moon nearest, distance 228,100 miles
9	evening	Occultation of Antares (see text of article)
10	5:45 p. m.	Full moon
13	5:48 p. m.	Moon passes Jupiter
18	8:29 a. m.	Moon in last quarter
19	4:00 a. m.	Moon farthest, distance 251,100 miles
21	2:03 p. m.	Sun farthest north, summer commences
24	10:50 a. m.	Moon passes Mars
26	6:02 a. m.	New moon
27	5:07 p. m.	Moon passes Venus
28	6:00 a. m.	Mercury farthest west of sun
30	8:47 a. m.	Moon passes Saturn again

Subtract one hour for CDST, two hours for MDST, and three for PDST.

Science News Letter, May 28, 1949

ASTRONOMY

British Get Giant 'Scope

► THE GIANT, 98-inch glass mirror for the largest telescope in the world outside of the United States has been presented to Britain's Royal Greenwich Observatory by the McGregor Fund of the University of Michigan.

Gift of the 98-inch pyrex glass disk and a secondary mirror and plug for the planned Isaac Newton telescope at the Royal Observatory was disclosed when the lords commissioners of the British Admiralty sent their thanks to Judge Henry S. Hulbert of Detroit, president of the McGregor Fund board of trustees.

Only larger telescopes in the world are the 200-inch giant eye of Mount Palomar and the 100-inch 'scope on Mount Wilson, both in California. A third larger telescope of 120-inch diameter is being planned for the Lick Observatory, also in California. Biggest 'scope outside of the U. S. at present is a 74-inch one at Radcliffe Observatory, Pretoria, South Africa.

The big glass for the Royal Observatory is a little brother of the Palomar mirror. It was made at the Corning Glass Works in Corning, N. Y., after the 200-inch eye for Palomar was poured. The 98-inch mirror was originally planned for a University of Michigan telescope which was not built because the depression reduced available funds.

Arrangements for the gift were completed at Ann Arbor, Mich., late in March during the visit there of the Astronomer Royal, Sir Harold Spencer Jones.

The Isaac Newton telescope which will use the mirror will be located at Hurstmonceux, England, where the Royal Greenwich Observatory is in the process of moving from its traditional home in Greenwich.

Value of the 98-inch mirror, a secondary, 26.5-inch disk and the plug for the center hole of the large glass is hard to estimate. Original cost was only some \$15,000, thanks

to the fact that they were made at the time Palomar's mirror was poured. They would probably cost about \$80,000 to make now.

The late Dr. Heber D. Curtis of the University of Michigan, directed planning for the 'scope at the University, and funds were appropriated by the Michigan legislature. After the mirror, a gift from the McGregor Fund, had been completed, the depression came and funds were cut off.

Science News Letter, May 28, 1949

GENERAL SCIENCE

Fellowships To Train Scientists for Atom Jobs

► FELLOWSHIPS to help in training more scientists for radiology work with atomic products in industrial laboratories, U. S. Atomic Energy Commission laboratories, and hospitals are being offered to science or engineering graduates.

The Atomic Energy Commission fellowships in radiological physics are being administered by the National Research Council. They carry an annual basic stipend of \$1,500 for single fellows and \$2,500 for married students. Applications for next year must be received by June 10.

Science News Letter, May 28, 1949

LINGUAPHONE



is your *Passport* to the World
In your own home, alone or in a group, you can now learn to speak
**SPANISH • PORTUGUESE
FRENCH • RUSSIAN
ITALIAN • GERMAN**

or any of 23 other languages by the world-famous

LINGUAPHONE Conversational METHOD

You learn the new language by listening to voices of native teachers. It is amazingly simple; thousands have succeeded. Educators hail Linguaphone as a notable advance in simplifying the mastery of languages. That is why so many Linguaphone Sets are used in schools, colleges, universities, as an aid to fluent speaking.

Available to Veterans under **G I BILL OF RIGHTS**

SEND FOR FREE BOOK
LINGUAPHONE INSTITUTE
31 RCA BUILDING, NEW YORK 20, N. Y.

LINGUAPHONE INSTITUTE
31 RCA Bldg., New York 20, N. Y.
Send me the FREE Linguaphone Book.
I am , am not a World War II Veteran
I want to learn..... language.
Name
Address..... City.....

