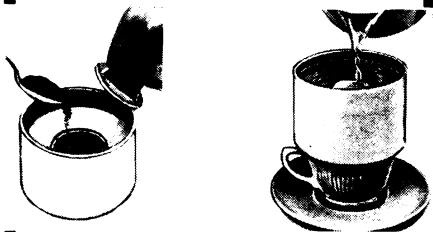


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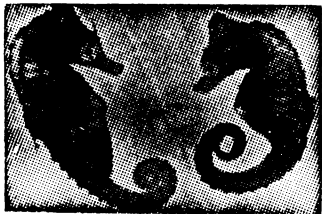
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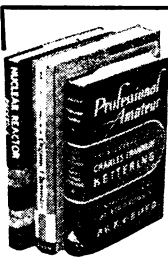


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Winter Stars at Best

(Continued from page 59)

will be partly covered by the dark disc of the moon.

However, the moon will completely cover the sun, and a total eclipse will be visible, along a path 60 to 100 miles wide. This starts in Borneo as the sun is rising, then passes over the Celebes, Ceram, New Guinea, the Solomon Islands and, after a long stretch of open ocean, Palmyra Island, which is about 1,300 miles south of Honolulu. After that the path goes toward the northeast, ending as the sun is setting about a thousand miles west of lower California.

At Palmyra, the sun will be totally eclipsed for more than three minutes. At Salamaua, at the eastern end of New Guinea, the eclipse will last about 2¾ minutes. Farther east, the duration will be less, and the sun will be more poorly placed in the sky. However, many astronomers have taken up positions along the eclipse track, to observe features of the sun that can best be studied when the moon hides the brilliant solar disc.

Celestial Time Table for February

Feb.	EST	
4	7:10 p.m.	New moon; total eclipse of sun visible in Pacific Ocean
5	8:00 a.m.	Mercury between earth and sun
	5:00 p.m.	Moon nearest, distance 222,700 miles
8	1:00 p.m.	Jupiter on far side of sun
9	1:46 a.m.	Algol (variable star in Perseus) at minimum
11	10:43 a.m.	Moon in first quarter
	10:36 p.m.	Algol at minimum
14	7:25 p.m.	Algol at minimum
19	8:18 a.m.	Full moon
20	4:00 p.m.	Moon farthest, distance 252,500 miles
27	10:50 a.m.	Moon in last quarter
	5:00 p.m.	Pluto nearest earth, distance 3,006,000,000 miles

Subtract one hour for CST, two hours for MST, and three hours for PST.

Know the Sky to Watch Satellites

These star maps showing the positions of stars and planets can help you locate satellites when they flash briefly across the sky. Familiarity with the constellations and their relative positions makes locating artificial moons much easier whenever they are visible from your area.

• Science News Letter, 81:58 January 27, 1962

SPACE

"Space Whiskers" Grown For New Space Materials

See Front Cover

➤ MICROSCOPICALLY SMALL "space whiskers" are being grown by scientists at Rocketdyne, a division of North American Aviation, Inc., Canoga Park, Calif., in search of methods of producing extremely strong new space materials.

The fine filament-like crystals are being grown from many materials—lead, tin, copper, graphite, sapphire and even table salt. The tensile strength of the crystals reaches

the level of millions of pounds because of the extraordinary perfection of their structure.

Manufacturing methods vary with the material. Some whiskers are grown from solutions, others by pressing thin films of whisker material between polished steel plates, and others by deposition from a vapor. Some grow from a base like human whiskers, others grow by piling up atoms on the tip.

Sapphire whiskers, seen on the front cover, are most desirable. They not only have great strength but they also have a high melting point and are resistant to oxygen.

• Science News Letter, 81:62 January 27, 1962

MEDICINE

Stillborn Revived With Heart Massage

➤ A STILLBORN British boy, now one year old, owes his life to open heart massage performed five minutes after his birth in Birmingham, England.

This is believed to be the first British case reported although previous successful cases in the United States have been described since 1957. The operation is rare, but the surviving babies all are normal.

In the case of the Birmingham baby, there was no heart beat when delivery took place after some 45 hours of labor by a 31-year-old mother. This was her first baby.

While oxygen was given through a tube in the mouth, the infant's chest wall was opened and the right index finger of the surgeon compressed the heart against the sternum (breastbone) about 120 times a minute.

Within two minutes regular rhythm at the rate of about 140 beats a minute had started.

Fifteen minutes after the heart started beating normally the child started to breathe spontaneously. After one month of hospitalization the child was allowed home, and periodic examinations since then have shown him to be entirely normal. At nine months he had an intelligence quotient equal to that of a baby two months older.

No definite reports have been given of attempts to use the new closed chest method of heart massage on stillborn infants. The open heart massage technique is advised for babies known to be alive shortly before or after delivery, who have stopped hearts because of circumstances of birth.

Drs. R. J. R. Reilly and H. A. H. Melville of Queen Elizabeth Hospital, Birmingham, report this case in the British Medical Journal, Jan. 13, 1962.

• Science News Letter, 81:62 January 27, 1962

Scientists have found that the anti-cancer effects of some *drugs* are multiplied when they are combined with X-rays.

There are 2,750,000 more *women* than men in the U. S.

Attempts are underway to establish a world-wide network of synchronized *atomic clocks*.