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HARRY ROSS

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HERCULES CORONA °LYRA 🕶 BOÖYES CYĞNUS SERPENS & Arcturus SAGITTA Altain & Aguill OPHIUCHUS DELPHINUS SCUTUM VIRGO PEGASUS CAPRICORNUS *Spica LIBRA AQUARIUS HYDRA SCOR-SPIUS POR SAGITTARIUS CENTAURUS CORVUS LUPUS Face South **€** EAST WEST

when Jupiter is on the far side of the sun, it is about 186,000,000 miles (the diameter of the earth's orbit) farther away.

In the half century following Galileo's discovery of these moons of Jupiter, astronomers began to make predictions as to when they would disappear behind the planet and make their reappearance. When Roemer observed these events, and measured their times accurately, he found that sometimes they were earlier and sometimes later than the prediction. Puzzled at first, he finally realized that they were early when Jupiter was closest to us, and late when it was farthest away. This gave him the clue to a correct explanation of the differences. The eclipses, etc., took place on schedule, but when Jupiter was on the far side of the sun the light had to travel all the way across the orbit of the earth. On the other hand, when the two planets were on the same side of the sun, the light had a much shorter path.

As a result, he announced in a paper to the French Academy of Sciences, published Dec. 7, 1676, that light takes 22 minutes to cross the earth's orbit, so that it would require 11 minutes to get from the sun to the earth. Modern observations make it 8 minutes 19 seconds, which corresponds to a speed of light of 186,000 miles per second.

Time Table for July

July	EST	
2	4:00 p. m.	Earth farthest from sun, dis-
		tance 94,453,000 miles
	5:00 p. m.	Moon nearest, distance 229,-
		800 miles
10	2:41 a. m.	Full moon
	8:00 p. m.	Moon passes Jupiter
16	9:00 p. m.	Moon farthest, distance 251,-
		ooo miles
18	1:01 a. m.	
20	3:00 a. m.	Jupiter nearest earth, distance
		382,300,000 miles
23	6:07 a. m.	Moon passes Mars
25	2:33 p. m.	New moon
	1:22 p. m.	
28	early a. m.	Meteors of Delta Aquarid
		shower visible
	8:00 p. m.	Moon nearest again, distance
		227,600 miles
31	1:00 a. m.	
		of about a third the lunar
		diameter

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

Science News Letter, June 25, 1949

Oslo, capital of Norway, has 170 square miles of land within the municipal area, about three times as much as the District of Columbia; much of it is "wild" terrain, with moose, deer, wild cats, foxes, rabbits and badgers roaming at large.

ERRATA, Vol. 55, Nos. 1-26, January-June, 1949

	Dick. 1111, 101. 33,	1103. 1-20, January-June, 1949
PAGE	TITLE BEGINS	CORRECTION
15	New Insect Immigrants	Headline, Immigrants for Emigrants.
28	African Dams	Last par., line 5. Lake Victoria for Victoria Falls.
62	Record-Breaking Cold	Par. 5, line 10, Montana for Wyoming.
114	British Lead in Beva- tron	See Letters to Editor, p. 132.
130	Vitamin B,,	Line 1, after B, insert per unit of weight.
131	Menhaden is America's	Par. 3, lines 7, 8, read the fish meal is used for animal and poultry feed and fertilizer.
152	Scientists, Too, Object	Line 4, Bitter for Bittner.
152	Disease-Bearing Villains	Villains for villians.
172	Mercury Vapor	Line 6, after generator add since the war.
220	FIDO	Last line, droplets for vapor.
260	Blood Test for Cancer	Col. 2, line 13, prostate for prostrate.
268	New Conducting Plas- tics	Col. 2, line 14, mercury for copper.
297	Americans and Canadi- an	Par. 4, line 4, the for an.
340	Canners	Col. 2, line 12, in the 1840's for 1819.
347	British Get	Line 5, read McGregor Fund, Detroit. Delete rest of sentence and Par. 5.