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OBSERVATION OF THE OCCULTATION OF THE STAR BD +17° 2028
 BY JUPITER, 1920, JUNE 7

The following observations of the occultation of the ninth magnitude star BD +17° 2028 by *Jupiter*, on 1920, June 7, were secured with the 12-inch equatorial of the Lick Observatory. The chronometer times were noted and recorded by Miss Priscilla Fairfield. The observations were obtained by the writer.

The star was first seen, near the *following* limb of the planet, at 7^h38^m Pacific Standard Time. An approximate position-angle setting was made on the line joining the estimated center of the planet's disk and the star shortly before and again immediately after the occultation occurred. These position-angles are given below:

P. A. at 7^h44^m (before ingress) = 140° ±;
 P. A. at 9^h12^m (after egress) = 256° ±.

The observations of the ingress follow:

Ingress.....	}	7 ^h 56 ^m 00 ^s .5 P. S. T.
		56 50 .0
		57 12 .5
Certainly disappeared.....		57 20 .5
Invisibility confirmed.....		58 04 .5
		7 59 06 .0

The occultation was very gradual. It was extremely uncertain when the star had actually disappeared. The seeing was fairly unsteady, the image occasionally blurring. When the star appeared to be on the point of becoming extinguished, the time was taken. Four such times in all were recorded, as entered above under the word "ingress," but after each of the first three, the star was again visible. The inferior definition and the glare of the planet in close proximity to the relatively faint star are largely accountable for the uncertainty in the time of disappearance. The final time noted, 7^h57^m20^s.5, is perhaps the most probable instant of the occurrence of the phenomenon.

The star was first observed upon egress at about 9^h7^m11^s P. S. T. It was obviously free of the planet's limb at 9^h7^m26^s.5. That the precise moment of egress was witnessed is not likely, because of the lack of foreknowledge as to the position angle with respect to the center of *Jupiter* of the exact point of reappearance, and the brilliance of the planet, altho the seeing had improved perceptibly at emergence. The above time, namely 9^h7^m11^s, is almost unquestionably too late by at least several seconds.

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