

A and C (13^m0).

1909.780	232°10	114°21
.782	232.20	114.24
1909.78	232.15	114.22

No other measures of C.

12655. Σ 3047.

A and C.

1909.744	189°8	7°98
.760	190.3	7.92
.763	189.3	8.29
1909.76	189.8	8.06

12656. Σ 3048.

A and C.

1909.760	242°68	46°72
.780	242.52	46.51
.782	243.17	46.52
1909.77	242.79	46.58

The change appears to agree with the proper motion of AB.

12666. σ Cassiopeiae.

A and C.

1909.493	66°90	109°48
.570	66.87	109.37
.573	66.85	109.60
1909.55	66.87	109.48

Star and comet Halley.

1909	Cent. St. T.	Star	Δ RA.	Δ Decl.
Sept. 15	15 ^h 39 ^m	+17° 12 32	+12° 68	+252° 1
Oct. 13	13 25	+16 10 76	-4.84	+237.6
14	13 23	+16 10 76	-48.53	+216.3
Nov. 3	13 20	+16 893	+48.87	+225.0
11	10 14	+16 821	-64.06	-343.8

Yerkes Observatory, Williams Bay, Wisc., 1910 April 8.

A prior measure is:

1879.79 66°68 110°37 2n Bl.

The proper motion of the large star is very uncertain:

Auwers 0°018 in 214°5
Groombridge 0.034 in 74.7.

12673. H 3229. (10^m5, 11^m0).

1909.627	144°9	8°18
.630	143.5	7.78
.725	142.9	8.39
1909.66	143.8	8.12

No other measures.

12675. Σ 3050.A and C (12^m8).

1909.744	288°80	82°28
.763	288.90	82.20
.780	288.85	82.07
1909.76	288.85	82.18

One of the nearly equal components of Σ 3050 has a small proper motion. Later measures of the small star will show whether it is A or B.

12693. O Σ (App.) 254.

A and B.

1909.438	89°60	58°62
.473	89.25	58.52
1909.46	89.42	58.57

A and a (9^m8).

1909.438	323°83	155°87
.473	323.85	155.68
.493	323.97	155.62
1909.47	323.88	155.72

B and b (9^m9).

1909.438	129°45	134°47
.473	129.28	134.34
.493	129.77	134.42
1909.47	129.50	134.41

For the small stars we have:

1879.47 323°96 156°46 3n Bl
1879.47 129.59 134.24 3n Bl.

12703. Ho 209.

A and C.

1908.826	140°6	17°86
9.706	139.7	17.74
9.742	139.3	17.74
1909.42	139.9	17.78

Change uncertain.

1906.53 139°1 17°72 3n Doo.

h 476 and star 12^m6.

1909.722	335°3	85°54
.760	334.8	84.98
.836	336.6	84.50
1909.77	335.6	85.01

Another measure of Dreyer 2493 is:

1891.23 330°0 86°78 1n Eng.

As the comparison stars are small, and have no recent determinations of place, and as their proper motions, if any, are wholly unknown, I have requested the Superintendent of the U. S. Naval Observatory to obtain new meridian positions, and am informed that this will be done.

S. W. Burnham.

Mars.

Les photographies prises en 1909, en France et en Amérique, avec un écran transmettant une lumière de longueur d'onde voisine de λ 5800 ne montrent pas la calotte polaire neigeuse plus intense que les régions continentales. Il s'ensuit qu'il n'y a pas, sur ces clichés, d'empiètement photographique des neiges sur les régions voisines, et il est à remarquer que l'on n'y voit pas la bande sombre autour de la calotte, bien que les photographies en question montrent Mars mieux que les dessins. Ce résultat confirme ce que j'ai publié dans les »Astronomische Nachrichten«, no. 4358, cols. 223-224, et no. 4376, cols. 125-126.

Paris, 1910 Juillet 4.

E. M. Antoniadi.

(563) Suleika. Correzione all'effemeride (V. R. I. 38): 1910 Giugno 28 +4^m 2^s -15'8. Gr. 12^m9. G. Abetti.

Inhalt zu Nr. 4426-27. S. W. Burnham. Double star measures. 145. — E. M. Antoniadi. Mars. 179. — A. Abetti. (563) Suleika. 179.

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