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Project PHaEDRA - Henrietta Swan Leavitt #36

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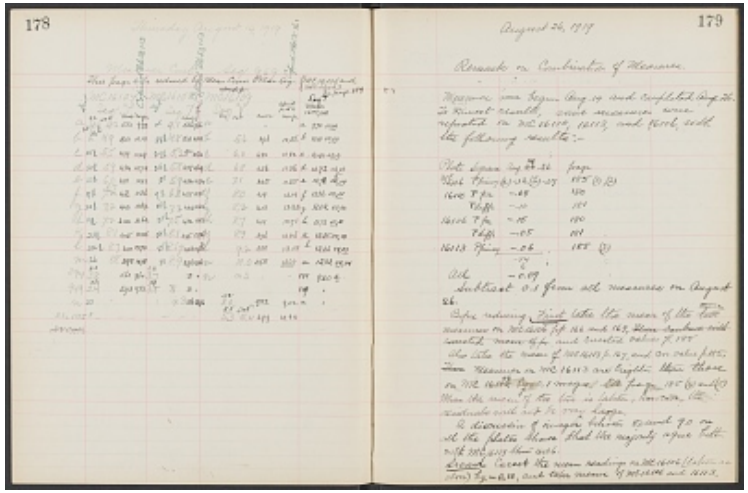
Thursday, August 14, 1919
Measures Cont. Seq. 969
This page to be reduced by Mean Curve Polar Seq. {MC 16106 and MC 16113
See page 189

[[16 columned table]]
|Dist|Seq. T|Seq. T|Seq. T|Seq. T|Dist|Seq J|Seq J|Seq J|Seq V|Seq V|Seq V|Seq V|copied p. 184^[[Copied Bb53;161]]|Seq T|Seq T|
			curve	Magn^[[Copied Bb53;153]]			curve	magn^[[Copied Bb53;153]]		sc1	sc2	curve	magn		mean 1607,1610
a	4.0^[[4.2]]	4.2^[[4.20]]	5.53	9.73	25	4.1	5.56	9.66	a			.		a	9.70 03,[[underlined]]04[[/underlined]]
b	Delta^[[33]]^[[36l]]	4.9	5.23	10.13	38l	4.8	5.28	10.08	b
5.6	4.96	10.56	b	10.10	03,[[underlined]]02[[/underlined]]
c	25l	5.5	4.99	10.49	27l	5.2	5.10	10.30	c		6.0	4.82	10.82	c	10.40 09,[[underlined]]10[[/underlined]]
d	20l	5.9	4.84	10.74	25l	5.8	4.89	10.69	d		6.8	4.56	11.36	d	10.72 02,[[underlined]]03[[underlined]]
e	22l	6.0	4.81	10.81	20	5.9	4.84	10.74	e
7.1	4.45	15.55	e	10.7[[strikethrough]]6[[/strikethrough]]7 0[[/strikethrough]]5[[/strikethrough]]3,[[underlined]]04[[/underlined]]
f	17l	[[strikethrough]]7.2[[/strikethrough]]6.7	4.66	11.36	7l	6.8	4.55	11.35	f		8.0	4.19	12.19	f	11.36 00,[[underlined]]01[[underlined]]
g	30l	7.2	4.42	11.62	20l	7.5	4.32	11.82	h		8.7	4.01	12.71	h	11.72 10,00
h	19l	7.2	4.42	11.62	20l	7.5	4.32	11.82	h		8.7	4.01	12.71	h	11.72 [[underlined]]10[[/underlined]],0
k	23l	8.1	4.15	12.25	23l	8.1	4.15	12.25	k	8.9	3.96	12.86	k	12.25 00,00
l	22l	8.7	4.00	12.70	25l	8.6q	4.03	12.63^[[q]]	l		9.2	3.88	13.08	l	12.66 04,[[underlined]]03[[/underlined]]
m	26	8.8	3.98	12.78	30	8.9	3.96	12.86	m
10.0	3.68	[[underlined]]13.68[[/underlined]]	m	12.82 [[underlined]]04[[/underlined]],04
894	3.8^[[4.0]]		5.60	9.60	3.7^[[3.9]]		B	.	n		ns.	.	.	894	9.60 [[underlined]]a[[/underlined]]
949	3.4^[[3.6]]
5.73	9.33	3.5^[[3.7]]	[[strikethrough]]3[[/strikethrough]]	B	.				
949	.
n	23	-				9.3	3.86	13.16		3.0^[[3.2]]		5.82	9.02	n	.
33=1175	5	-	-	-	-	-			5.3^[[5.5]]	5.4^[[5.45]]	4.99	10.44		
[[strikethrough]]32=1016]]														



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August 26, 1919

Remark on Combination of Measures.

Measures were begun Aug. 14 and completed Aug. 26. To correct results, some measures were repeated on MC 16110, 16113, and 16106, with the following results:-
[[4 columned table]]
|Plate|Sequence|Aug. [[strikethrough]]26[[/strikethrough]]14-26| Page|

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|---|---|---|---|
|MC 16106| |P primary|(a)-.12(b)-.07| 185(1),(2)|
16110	P pr	-.08	180
	P diff.	-.10	181
16106	P pr	-.15	180
	P diff.	-.05	181
16113	P primary	[[underlined]]-.06[[/underlined]]	185 (3.)
		-54	
		6	
All		-0.09	

Subtract 0.1 from all measures on August 26.
Before reducing - [[underlined]]First[[/underlined]] take the mean of the [[strikethrough]]two[[/strikethrough]] three measures on MC16106 pp 166 and 167, [[strikethrough]]then combine with corrected mean of p.[[/strikethrough]] and corrected values p. 185
Also take the mean of MC16113 p. 167, and cor. value p.185.
[[strikethrough]]Then[[/strikethrough]] Measures on MC16113 are brighter than those on MC 161[[strikethrough]]12[[/strikethrough]]06 by 0.1 magn. See page 185 (4) and (5) When the mean of the two is taken, however, the residuals will not be very large.
A discussion of images between 8.0 and 9.0 on all the plates shows that the majority agree better with MC 16113 than 16106.
[[underlined]]Second[[/underlined]] Correct the mean readings on MC 16106 (taken as above) by -0.10, and take measure of MC 16106 and 16113.

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