KG
11366
010

KG 11365.010

L

KG 11366.010

HARVARD
UNIVERSITY
LIBRARY
JUL 17 1956

YELLOW

10:00

Scale measures of Rich Scut. Sob.

Dc V

June 25, 1919 (Sup. on MC 5523)

Ref. Seq. MC 15293 Yellow

	Sc 1	Sc 2		Sc 2 P.C	g	L
1		B		4.9	B	B
2		B		7.7	7.2	7.2
2a		B		8.1	7.5	7.7
2b		B		9.2 9.0	8.5	8.5
3	3.1			9.3 9.5	9.0	9.0
3a	3.5				9.5	9.3
4	3.5				9.8	9.8
5		4.4				
6		4.7				
7		5.3				
7a		6.1				
7b		6.7				
8		3.9				
9		4.5				
10		7.0				
10		6.8				
12		7.7				
13		8.1				
14		8.5				
15		8.7				
16		F				
~~17~~						
~~18~~						

YELLOW

Rich Scut. Sub.

June 25, 1919

Dev Cat.	MC 15293	Sc1	Sc2
	41		3.3
	42		5.5
	43		4.8
p	44		5.1
	45		4.0
	46		5.0
	47	3.1	
	48		5.5
p	49		8.3
	50		4.8
	51		4.5
	52	3.4	
	53		4.3
	54		4.1
	55		4.4
	56		4.0
p	57		9.0
	58		4.9
	59		5.0
	60		4.4
	61		4.7
p	62		9.3
	63		4.5
	64		3.9
	65		5.3
	47a		7.0

YELLOW

Rich Scut Sub

June 25, 1919

Sct	MC15293	Sc1	Sc2
Cat - fr	66		6,2
fr	67		9,2
fr	68		6,8
	69	3,4	
	70		4,5
	71		3,9
	72		4,3
	73		5,3
fr	74		7,8
	75		5,1
fr	76		8,9
	77		4,0
fr	78		9,0
	79	3,5	
	80		3,9
	81	3,4	
fr	82		9,8
fr	83		7,2
	84		4,0
	85		5,1
fr	86		6,8
	87		4,0
	88		5,5
	89		5,2
	90		53
	75a		5,6
	81a		7,1
	81b		7,2
	81e		8,8
	84a		7,5
	84b		6,9

YELLOW

Sc Y

Rich Scut Sob
June 25, 1919

Cat. MC 15293

		Sc1	Sc2
	91		5.1
	92		4.3
	93	3.4	
	94		4.0
fr	95		6.4
	96		4.3
fr	97		9.9:
	98		5.2
	99	3.5	
fr	100		9.8
fr	101		7.9
	102		5.5
	103	3.3	
	104		4.5
	105		5.1
	106		5.2
fr	107		9.0
	108	3.4	
	109		4.2
	110		5.0
	111		5.0
	112		3.8
	113		5.2
	114		4.9
	113a		8.0

YELLOW

Rich Scut Sub.

June 25, 1919

Dev

Cat Mc 15293

		Sc 1	Sc 2
	115	8.3	
	116		4.4
	117		5.3
fr	118		9.9
	119		5.4
	120		4.4
	121		4.9
	122		5.1
	123		5.1
	124		4.4
fr	125		6.3
	126		4.1
	127		4.1
	128		4.7
	129		4.5
	130		4.6
	131		4.1
fr	132		8.9
fr	133		6.9
fr	134		7.8
	135		4.7
	136		4.4
fr	137		9.8
	138		3.9
	115a		6.9
	129a		6.9

YELLOW

Scr

Rich Scut Sub

June 25, 1919

Ref. Mc 15293

	Sc1	Sc2	g/B	L/B	Pc
1		B			4,9
2		B	7.1	7.2	7.9
2a		B	7.5	7.8	8,1
2b		B	8.5	8.7	9.3
3	3.1		9.0	9.0	9.5
3a	3.3		9.5	9.3	
4	3.3		9.7	9.8	
5	4.2	4.3			
6		4.8			
7		5.3			
7a		6.1			
7b		6.8			
8		3.8			
9		4.5			
10		7.0			
11		6.9			
12		7.8			
13		8.1			
14		8.5			
15		8.8			

12.30

-30^m

9:50 YELLOW

DcV

Rich Scut Sob

June 26, 1919

Ref.- MC 15293

	Sc1	~~Sc2~~	Sc2	g	h	Pc
1		B		B	B	5.0
2		B		7.1	7.1	7.7
2a		B		7.5	7.7	8.0
2b		B		8.5	8.5	9.2
3	3.1			8.9	9.0	9.5
4	3.3			9.7	9.5	
3a	3.4			~~9.8~~	~~9.8~~	
5	4.7		4.4			
6			4.9			
7			5.3			
7a			6.1			
8			3.8			
9			4.5			
10			6.8			
11			6.9			
12			7.8			
13			8.1			
14			8.3			
15			8.7			
16			n.s			

YELLOW

Rich Scut Sob

Sc V

June 26, 1919

Cat. MC 15293

		Sc,	Sc2
	139		4.0
	140		5.0
	141		5.3
fr	142		9.0
	143		4.8
	144		4.2
	145		5.3
Outside limits	146		4.4
	147		5.3
fr	·148		8.5
	149	3.4	
	150		4.5
fr	151		9.0
	152		5.5
	153		4.9
	154		4.8
	155		4.0
'Outside	156		4.3
fr	157		9.9?
	158		5.3
	159		6.0
Outside limits	160		5.3
	161		4.1
fr	162		8.9

YELLOW

Rich Scut Sob

ScV

June 26, 1919

	Cat.	Mc 15293 Sc 1	Sc 2
	163		5.7
	164		3.9
	165	3.2	
	166		4.2
	167		6.1
	168		4.5
	169		5.5
	170		7.5
	171		5.9
	172		6.8
	173		4.4
	174		4.5
	175		6.5
	176		3.9
	177		7.2
	178		4.3
	179		4.0
	180		4.7
	181		4.3
	182		4.5
	183		5.3
	184		4.5
	185		5.5
fr	186		8.9
	182a		7.1
	182b		6.4
	184a		6.5
	186a		6.2
	179a		6.5
	179b		7.2

YELLOW

Sc V

Rich Scut Sob
June 26, 1919

Cat. MC 15293

		Sc 1	Sc 2
	187		5.4
	188		7.9
	189		8.0
	190	3.4	~~3.4~~
	191		4.8
p	192		10.0
	193		4.0
	194		3.9
	195	3.2	
	196		7.3
	197		6.8
	198		6.0
	199		5.0
	200		3.9
	201		4.4
p	202		9.0
	203		4.6
	204		5.7
	205		5.9
	206		6.7
	207		6.5
	208		6.7
	209		4.2
	210	3.2	
	206a		7.0
	208a		7.1
	207a		7.0
	207b		6.8
	205a		7.0
	205b		6.9

ScV YELLOW

Rich Scut Sob

June 26, 1919

Cat. MC 15293

	Sc1	Sc2
	211	5.5
	212	7.5
	213	5.5
	214	6.8
	215	4.0
	216	5.9
	217	3.9
	218	6.2
	219	5.0
	220	5.5
	221	6.3
	222	7.1
	223	6.1
	224	6.1
	225	6.1
p	226	8.0
	227	6.3
	228	6.0
	229	5.7
	230	6.2
	231	4.4
	232	6.9
	233	4.8
	234	6.4
	227a	6.3

10 : vd YELLOW

Dev

Rich Scut Sob

June 20, 1919

	Cat.	M15 29.3
		Se1 Se2
	235	7.8
	236	6.8
	237	6.5
	238	4.4
	239	6.1
	240	4.2
	241	4.2
	242	7.2
	243	7.7
	244	7.1
	245	5.4
	246	46
	247	7.0
	248	5.9
	249	7.2
	250	4.5
	251	3.9
	252	7.5
	253	4.3
p	254	9.7
	255	6.2
	256	4.4
Close Dbl. prec	257	8.0?
foll.	b	7.8?
	258	70
	252a	6.7
	254c	7.5
	254a	6.9
	254b	7.2
	257a	7.0
	258a	7.3

YELLOW

Rich Scut. Sob

DcV

July 26, 1919

Cat. MC 15293

	Sc1	Sc2
	259	5.2
	260	6.9
	261	7.5
	262	7.1
	263	3.8
	264	3.5
p	265	8.1
	266	7.1
	267	6.1
	268	6.7
	269	6.2
	270	7.8
p	271	9.1
	272	6.5
	273	4.5
	274	5.6
	275	6.5
	276	6.1
	277	6.9
	278	5.9
	279	7.0
	280	6.4
	281	7.5
	282	6.5
	260a	7.5
	277a	6.8
	263a	6.7
	261a	6.5

YELLOW

Rich Scut Sob

Sc V

June 26, 1919

Cat. MC 15293

		Sc 1	Sc 2
	283	6.5	
	284	4.5	
	285	3.8	
Sup?	286	6.3	
pr	287	7.9	
	288	7.1	
	289	7.1	
	290	5.5	
	291	6.0	
	292	6.1	
	293	8.2	
	294	7.1	
	295	7.7	
	296	7.3	
	297	7.5	
	298	6.8	
	299	6.9	
	300	5.5	
	301	6.2	
	302	6.0	
	303	7.0	
	304	7.3	
	305	5.7	
	306	6.3	
	296a	8.5	
	297a	7.8	
	300a	7.7	

YELLOW

Rich Scut Sob

DeV

June 26, 1919

Ref- MC 18293

	Se 1	Se 2		g	L	PC
1		B		B	B	4.9
2		B		7.1	7.1	7.9
2a		B		7.5	7.5	8.0
2b		B		8.5	8.5	9.3
3	3.1			9.0	9.1	9.5
3a	3.2			9.5	9.3	
4	3.3			9.8	9.8	
5	4.1	4.3				
6		4.9				
7		5.3				
7a		6.0				
8		3.8				
9		4.7				
10		6.8				
11		7.0				
12		7.7				
13		8.1				
14		8.5				
15		8.8				
16		n.s.				

1:20

10 11.5 YELLOW
Sc V

Rich Scut Sub.

June 28th 1919

Ref- MC 15293

	Sc 1	Sc 2	g	h	pc
1		B	B	B	5.0
2		B	7.1	7.2	7.9
2a		B	7.5	7.5	8.1
2b		B	8.7	8.5	9.1
3	3.1		9.1	9.0	9.5
3a	3.3		9.5	9.3	
4	3.5		9.8	9.8	
5	4.1	4.3			
6	~~4.9~~	4.9			
7	~~5~~	5.3			
7a		6.0			
8		3.9			
9		4.7			
10		7.0			
11		7.1			
12		7.8			
13		8.1			
14		8.5			
15		8.9			
7b		6.8			

ScV YELLOW

Rich Scut Sob.

June 28, 1919

	Sc 1	Sc 2
Cal	307	6.9
	308	5.5
	309	5.4
	310	6.8
	311	5.4
	312	6.0
	313	5.8
	314	6.1
	315	6.5
	316	7.1
	317	5.8
	317a	7.1
	318	5.3
	319	5.9
	320	7.0
	321	7.0
	322	6.8
	323	7.0
	324	6.3
	325	7.2
Cal	326	5.4
	327	5.9
	328	5.7
	329	6.7
	317b	7.1
	330	5.9
	330a	7.9
	331	6.0
	310a	6.5
	310b	6.5
	310c	7.1
	311a	7.3
	311b	7.5
	311c	7.7
	312a	7.3
	319a	6.1
	319b	6.3
	328a	[illegible]

Rich Scut- Sob

Sct

June 28, 1919

Cat- MC 15293

332	5.6
333	5.9
33~~4~~7	7.5
335	8.0
336	8.5
33~~7~~4	6.0
338	4.9
339	5.3
340	5.3
34~~2~~1	5.9
344a	7.2
342	6.5
343	6.7
344	6.3
345	5.5
346	6.0
347 w.s	~~6.4~~ 5.7
348	6.3
349	5.5
350	4.9
351	5.9
352	7.0
353	7.7
354	7.0
345a	6.9
354a	7.5

Rich Scut Sob

ScV

June 28, 1919

Cal- MC 15293

	Sc 1		Sc 2
	355		6.5
	356	ws	~~7.3~~ 5.8
	357		5.5
	358		6.0
	359		7.1
	360		5.2
	361		4.8
	362		4.9
	363		6.9
	364		6.7
	365		6.8
	366		7.1
	367		6.5
dbl	368		6.1
	369		6.4
	370		6.9
	371		7.2
	372		5.7
	373		6.2
	374		5.8
	375		6.5
	376		7.7
	377		6.5
	378		5.5
	379		6.9
	358a		7.5
	361a		7.5
	365a		8.3
	369a		7.2
	369b		7.1
	355a		7.5

Rich Scut Sob

Da V June 28, 1919

Ref MC15293

	Sc 1	Sc 2	g	h	Pc
1		B	B	B	4.9
2		B	7.1	7.0	7.9
2a		B	7.5	7.5	8.0
2b		B	8.5	8.5	9.0
3	3.1		9.0	9.1	9.5
3a	3.1		9.3	9.2	
4	3.3		9.8	9.8	
5	4.1	4.3			
6		4.8			
7		5.2			
7a		6.0			
7b		6.7			
8		3.8			
9		4.5			
10		6.9			
11		7.0			
12		7.7			
13		8.1			
14		8.5			
15		8.7			

12:00

Aug 15, 1919

MC Series 961

For Correction for Distance and Magn's of "20 sequences" mean M.P

Polar Seq. Primary

Focus 16.8

Aug 16 1919

Dist.

SeM		18^h31^m MC 15996 Sc 1	Sc 2	18^h31^m MC 15997 Sc 1	Sc 2	18^h31^m MC 15998 Sc 1	Sc 2	18^h31^m MC 15999 Sc 1	Sc 2	18^h31^m MC 16000 Sc 1	Sc 2
10:25											
Off plate	1	~~1.3~~		Off Pl.		B see page 31		B	B	B	
	2					–		–	–		
" "	3	+110r		1.0 +105	1.2	1.0 +109	1.2	1.1 +124	1.3	+121l 1.0	1.2
" "	4	.		1.1 -75r	1.3	1.0 59r	1.2	1.0 ~~56r~~ 44r	1.2	-27r B	.
	5	1.3 +57l	1.5	1.5 +63l	1.7	1.3 +77l	1.5	1.3 +90l	1.5	110l 1.4	1.6
	6	1.9 61l	2.1	2.0 -78l	2.2	2.0 94l	2.2	2.1 109l	2.3	Off Pl.	.
	7	2.0 -81l	2.2	2.1 -95l	2.3	2.1 ~~+77l~~ -106l	2.3	2.2 -117l	2.4	-138l 2.1	2.3
	8	3.0 +56l	3.2	3.0 +67l	3.2	3.1 +83l	3.3	3.1 97l	3.3	115l 3.2	3.4
	9	3.5 +62l	3.7	3.7 +75l	3.9	3.5 3.7 90l	3.75 3.8	3.7 104l	3.9	n.s.-off Pl.	
	10	3.7 29l	3.90 3.9	3.8 45l	3.95 3.9	62l	3.9	3.9 78l	4.10 4.1	101l	3.9
	11	-35l	4.5	-51l	4.4	-65l	4.7	79l	4.7	101l	4.7
	12	-27l	4.9	-41l	5.0	-55l	5.1	68l	5.1	90l	5.1
	13	-20l	5.5	-35l	5.7	-50l	5.7	63l	5.7	86l	5.6
	14	21l	6.1	38l	6.1	55l	6.3	70l	6.3	93l	6.1
	15	30l	6.8	-48l	6.9	64l	6.9	79l	7.0	102l	6.8
	16	13l	7.3	29l	7.5	47l	7.3	61l	7.5	84l	7.3
	17	12l	7.9	-28l	7.9	44l	8.0	58l	8.1	81l	8.0
	18	12l	8.9	-29l	8.7	46l	8.9	60l	8.7	83l	8.7
	19	18l	9.3	-34l	9.1	51l	9.3	65l	9.1	89l	9.3
	20 21	19l	9.9	36l -31l	9.7 9.9	52l 47l	9.9	67l	9.9	90l	9.9
	2r	2.2 15r	2.4	2.3 -2l	2.5	2.2 19l	2.4	33l 2.3	2.5	57l 2.3	2.5
	4r	3.5 28r	3.7	3.5 10r	3.7	3.3 +11l	3.5	25l 3.5	3.7	48l 3.5	3.7
	5r	-49l	4.7	-60l	4.7	-71l	4.9	-81l	5.0	-102l	4.9
	6r	41l	5.3	-58l	5.5	75l	5.5	90l	5.5	111l	5.5
	7r	18l	5.8	-34l	6.0	50l	6.0	64l	6.1	87l	6.0
	8r	-14l	7.0	-30l	7.0	45l	6.9	59l	7.0	83l	7.0
	9r	-22l	8.0	-37l	8.1	-50l	8.1	64l	8.0	87l	8.0

Plot for Distance.
Also plot curve
for mean of
MC 15996 and 16003. p.27

H.S.L. Aug. 22, 1919

Aug 16, 1919 Plot 12

Polar Seq Primary

Sc M

Distance
~~15997~~ ~~15998~~ ~~15999~~ ~~16000~~ ~~16001~~ ~~16002~~

	Broken 18h 31m MC16001 Se1	Se2	16h 8m MC16002 Se1	Se2	19h 33m MC16003 Se1	Se2	MC 15996	Diff.	15996, 16003	Mean MC 15996 16003.		Diff.
1	13		13		Off Pl				–			
2	.		–		–		.		–	.		.
3	1.1 +127l	1.3	Off Pl		1.0	1.2	.	.	+110r	1.2 .	a	4.61 ~~6.29~~
4	1.0 ~~27n~~ -23 118l	1.2	1.0	1.2	Off "		.		–	.		.
5	1.4	1.6	Off "		1.3	1.5	1.5	0	+57l	1.50	00	4.99
6	Off Pl.		Off "		2.1	2.3	2.1	+2	61l	2.20	11	4.91
7	" "		Off "		2.3	2.5	2.2	+3	-8l	2.35	21	4.96
6	" "		" "		3.1	3.3	3.2	+1	+56l	3.25	01	4.98
9	"l "		" "		3.7	3.9	3.7	+2	+62l	3.80	11	5.03
10	116l	3.9	" "		3.8	4.00 4.0	3.9	+1	29l	3.95	10	5.07
11	117 102l	4.9	" "			4.7	4.5	+2	-35l	4.60	10	4.95
12	106 91l	4.9	114l	5.2		5.2	4.9	+3	-27l	5.05	12	4.82
13	102 84l	5.7	115l	5.8		5.8	5.5	+3	-20l	5.65	12	4.65
14	108 94l	6.3	" "			6.3	6.1	+2	21l	6.20	11	4.45
15	117 103l	6.8	" "			6.9	6.8	+1	30l	6.85	01	4.23
16	100 85l	7.3	" "			7.5	7.3	+2	13l	7.40	11	4.00
17	97 80l	8.0	" "			8.1	7.9	+2	12l	8.00	11	3.63
18	99 84l	8.8	" "			8.9	8.9	0	12l	8.90	00	3.16
19	105 89l	7	" "			9.5	9.3	+2	18l	9.40	11	3.02
20	106 90l	7	" "			7	9.9 +0.17	. 26/15	17l	9.9 .	a	2.83
2r	12l 5 2.5	2.7	105l 2.8	3.0	2.4	2.6			15r			
4r	62 48l 3.5	3.7	105l 3.7	3.9	3.5	3.7			28r			
5r	-116 103l	~~5.0~~	108l ~~5~~	5.3		5.1			-49l	4.90	22	5.01
6r	128 113l	Off Pl ~~5.3~~	Off Pl			5.7			41l	5.50	22	4.80
7r	~~98~~ -113l	6.1	" "			6.1			18l	5.95	21	4.75
8r	98 83l	6.9	~~7~~ 115l	7.5		7.1			-14l	7.05	01	4.15
9r	102 88l	7.9	113l	8.3		8.0			-22l	8.00	00	3.70

{ 16003 - 15996 +0.9/5 = +0.18
Reading 6.0 to 9.0

Aug 15, 1919

Sem

Polar Seq Primary See Page 31

	MC15996 Dist. Sc	Sc2	MC15997 Sc1	Magn.	cu	Sc2	MC15998 Sc1	Sc2	MC15999 Sc1	Sc2	MC16000 Sc1	Sc2
10n	-25l	8.9	-41l	~~3.23~~	3.23	8.8	57l	9.0	70l	8.9	92l	8.9
11n	21l	9.5	-38l	~~2.84~~	2.84	9.6?	53l	9.6	69l	9.9	91l	9.8
12n	17l	F	-33l			F	50l	7		7		—
1s			Off Pl.					—		—		—
4s	2.1 38l	5.5	-55l		4.72	5.4	72l	5.5	85l	5.5	108l	5.3
5s	2.7 20l	6.5	-33l		4.42	6.3	53l	6.3	68l	6.5	90l	6.3
6s	3.1 -26l	6.9	-42l		4.22	6.8	57l	6.9	[illegible]1l	7.0	94l	6.9
7s	.20l	8.5?	-33l		3.14	9.0?	53l	9.0	69l	8.9	90l	9.1?
10s	3.5 -28r 3.7		3.3 -19r		5.01	3.5	+ -19		3.5 -28l	3.7	3.5 50l	3.7
11s	3.3 31r 3.5		3.5 +14r		5.02	3.7	+1l		3.7 24l	3.9	3.7 45l	3.9

88°

Copied Bk 53;149 15997

Seq S

Reduce with mean curve from Polar Seq. on MC15996 and MC16003 } p.27

Copied Bk 53;149 →

	MC15996	MC15997 Sc1	magn.	cu	Sc2	MC16000 magn.	curve	Sc2	
a	off	-48r	9.83	4.83	5.0	9.68	4.88	4.8	-28l
b		-43r	10.05	4.75	5.3	10.14	4.84	5.3	-29l
c		-51r	10.58	4.48	6.1	10.71	4.41	6.3	-32
d		-57r	10.83	4.33	6.5	10.83	4.33	6.5	-20
e		-38r	11.19	4.09	7.7	11.13	4.13	7.0	-29l
f		-38r	11.40	3.90	7.5	11.40	3.90	7.5	-31l
g		-40r	11.62	3.62	8.0	11.59	3.69	7.7	-26l
h		-38r	11.82	3.42	8.4	11.76	3.46	8.3	-29l
k		-33r	11.98	3.28	8.7	12.03	3.23	8.8	-30l
l		-40r	12.14	3.14	9.0	.	.	n.s.	
m		-38r	12.65?	2.85	9.8?	.	.	n.s.	

Seq I

Copied Bk 53;153 →

Copied Bk 53;153

Copied Bk 53;153

Reduce by mean Polar Curve MC15996, 16003 } p.27

	MC15997 Sc1	magn.	cu	Sc2	MC15998 Sc1	magn.	cu	Sc2	MC15999 Sc1	magn.	cu	Sc2
a	-25l	9.83	~~4.83~~	5.0	30l	9.76	4.86	4.9	-27l	9.61	4.91	4.7
66 = b	-30l	10.08	4.88	5.2	40l	10.05	4.75	5.3	-53l	10.03	4.73	5.3
51 = c	-19l	10.18	4.68	5.5	-30l	10.18	4.68	5.5	43l	10.31	4.61	5.7
47 = d	-16l	10.45	4.55	5.9	-43l	10.58	4.48	6.1	45l	10.58	4.48	6.1
e	-14l	10.77	4.37	6.4	-21l	10.84	4.34	6.5	-32l	10.96	4.26	6.7
f	-11r	11.19	4.09	7.1	8l	11.19	4.09	7.1	23l	11.13	4.13	7.0
g	-21l	11.53	3.73	7.8	-23l	11.62	3.62	8.0	-34l	11.53	3.73	7.8

cont. p.30

Mean
15996
16003
~~Distance~~

~~Aug 16, 1919~~

Polar Seq Primary

Broken -

		MC ~~15998~~ 16001 Se1	Se2	MC 16002 Se1			Se2	MC 16003 Se1	Se2
10r	1		90 7	~~13~~ 04 Copied B653,145					9.0 7
Seq R 11r a	2	~~3.7~~	5.5	54l	10.18	4.68	5.5		
b	3	3	5.3	67l	10.46	4.56 ws	5.9 5.3		
c	4		6.9	58l	11.06	4.16	6.9		
d	5		7.1	47l	11.18	4.08	7.1		
e	6		7.9	41l	11.59	3.69	7.9		
f	7		8.1	43l	11.66	3.56	8.1		
g	8		8.5	49l	11.86	3.36	8.5		
h	9		9.1	51l	12.71	3.61	9.1		
k	10		7	41l	12.75	2.85	9.8 7		
l	11		—						
m	12		—						
	13								
	14								
	15								
	16								
	17								
	18								
	19								

Reduce by mean Polar curve MC 15996, 16003 Sep. 27

~~Mean 15996~~

15996	15997	15998	15999	16000	16001	16002	16003

10a 8.95 ±0
11a ~~9.25~~ ~~.0~~ 9.5 .2.

4s		On edge			5.5	4a	5.50 00	4.62
5s	106 91l	6.5			6.5	5a	6.50 00	4.31
6s	109 95l	7.0			6.9	6a	6.90 00	4.21
7s	106 91l	9.0?			9.0	7a	8.75? 32	3.70?
88 105	65 54l 3.7 60	3.9		3.4 3.6		88 105	3.65 10	
115	45l 3.7	3.9		3.7 3.9		115	3.70 22	
811			6.0			8a	. . .	

Aug 16, 1919

Sem

Polar Seq Primary

		Mc 15996	Mc 15997 Copied	Mc 15998 Copied	Mc 15999 Copied
	cont. from p. 28		Sc 1 magn curve Sc 2	magn cu	Sc 1 magn cu Sc 2
Seq P	h		-12l 11.66 3.56 8.1 12.21 3.11 9.1	-23l 11.66 3.56 8.1	38l 11.66 3.56 8.1
Mean Polar curve	k		-16 w.s ~~8.3~~ 8.	-25l 12.14 3.14 9.0	39l 12.14 3.14 9.0
	l		. . 7	. . 7	42l 12.7 2? 2.82 9.9?
Seq N	a			-85l Copied Bh 53,133 10.58 4.48 6.1	
	b			-62l 11.30 4.00 7.3	
Mean Polar curve	c			-70l 11.50 3.80 7.7	
	d			-63l 11.66 3.56 ~~7.9~~ 8.1	
	e			-72l 12.09 3.19 8.9	
	f			-81l 7 . 7	
Seq Q	a			-40 magn. curve 9.83 4.83 5.0 Copied, Bh 53,141	
	b			-60 10.32 4.62 5.7	
Mean Polar curve	c			-50l 10.71 4.41 6.3	
	d			-61l 10.95 4.25 6.7	
	e			-54l 11.30 4.00 7.3	
	f			-55 7 ?	
	g			-61l 11.71 3.51 8.2	
	h			-54l 12.09 3.19 8.9	
	k			-49l 7 . 7	
	71			-73l 9.44 4.94 4.5	
defective?	73			-65l 9.75 4.85 4.9	
	539			-105l 8.92 5.02 3.9	
	657 4			-81l 9.36 4.96 4.4	
	688			-86l 8.40 5.00 3.4	
	718			-70l 10.19 4.69 5.5	
	811			-45 10.52 4.52 6.0	

Aug 16, 1919

15996 15997 15998 15999 16000 16001 16002

Sem # Polar Seg Primary

10;		MC 15998		Diff		MC 16001		Reduce by mean Polar curve
		Sc 1	Sc 2	from p.26		Sc 1	Sc 2	
Polar Seg	1		B		Seg H a	+35l	5.3	near crack
	2	-	-		b	22l	5.9	
	3	1.1	1.3	$-.\overset{1}{2}$	c	44l	6.2	
	4	1.0	1.2	0	d	38l	6.7	
	5	1.3	1.5	0	e	23l	7.3	
	6	2.1	2.3	−1	f	+34l	7.6?	near cr.
	7	2.1	2.3	0	g	33l	8.0	
	8	3.2	3.4	−1	h	32l	8.5	
	9	3.7 3.9	3.85 3.8	−1	k	29l	on crack	
	10		3.9	0	l	29l	7	
	11		4.5	+2				
	12		5.1	0				
	13		5.5	+2				
	14		6.3	0				
	15		7.0	−1				
	16		7.5	−2				
	17		8.0	0				
	18		8.8	+1				
	19		9.3	0				
	20		9.9	0				
~~Seg H~~								
				5−7				
				18				
				−0.01				
				±0.07				

No Correction needs to be applied.

*To connect with measures on p 26.

Aug 19, 1919

Polar Seq. Primary (White Stars only) ← Aug 19, 1919

Se M

10. 30

	MC15996 Sc1	Sc2	MC15998 Sc1	Sc2	MC15998 Sc1	Sc2	MC16000 Sc1	Sc2	16002 Sc1	Sc2
1	Off pl.									
2	" "									
3	1.0	1.2								
4	Off pl.									
5	1.2	1.4								
6	1.8	2.0								
7	2.1	2.3								
8	2.9	3.1								
9	3.5	3.7								
10	3.7	$\overset{390}{39}$								
11		4.5								
12		4.8								
13		5.5								
14		6.0								
15		6.7								
16		7.2								
17		7.7								
18		8.7								
19		9.2								
20		9.8								
Seq S a	+87r	4.9	-33r	4.7	-23	4.9	-$\overset{43}{30}$l ar seq.	~~6.3~~ 4.8	+63l	5.0
b	+119r	5.5	-28r	5.0	-19	5.3	-$\overset{42}{30}$l	5.5	68l	5.5
c	+104r	6.1	-38r	6.0	-28	6.1	-32l	6.3	58l	6.3
d	+101r	6.4	-40r	6.3	-26r	6.3	-28l	6.4	+63l	6.5
e	89r	7.1	-24r	7.1	-17	7.1	-$\overset{42}{30}$l	7.0	73l	7.1
f	82r	7.5	-26r	7.4	-18	7.5	-$\overset{44}{32}$l	7.5	72l	7.5
g	92r	7.9	-25r	7.9	-15	8.0	-$\overset{40}{28}$l	7.9	+73l	8.1
h	90r	8.3	-24r	8.5	-16	8.5	-$\overset{43}{30}$l	8.5	near sep.	8.7

Plot for Dist.

Include Plates 15997 and 16001, on pages 28, 29

Aug 18, 1919

Sc m

Polar Seq Primary

15996 15997 15998 15999 16000 16001 16002

MC16003

	Sc1	So2	p.32 MC15996	Diff
1	1.1	1.3	"	
2	–		.	
3	Off		1.2	.
4	"		.	
5	1.3	1.5	1.4	+.00
6	1.9	21	20	+.10
7	2.3	2.5	2.3	+.20
8	3.0	3.2	3.1	+.10
9	3.6	3.8	3.7	+.10
10	3.7 3.9	3.85 3.8	90 388	-.05
11		4.6	4.5	+.10
12		4.9	48	+.10
13		5.7	5.5	+.20
14		6.1	6.0	+.10
15		6.9	6.7	+.20
16		7.5	7.2	+.30
17		7.9	7.7	+.20
18		8.7	8.7	.00
19		9.3	9.2	+.10
20		98	9.8	.00 185/16 +0.12

Sag S

a	5.1
b	5.5
c	6.2
d	6.5
e	7.1
f	7.7
g	8.0
h	8.7

Aug 18, 1919

D.M

Polar Seq Primary

		MC15996		MC15997		MC15998		MC15999		MC16000	
		Sc 1	Sc 2	Sc 1	Sc 2	Sc 1	Sc 2	Sc 1	Sc 2	Sc 1	Sc 2
Seq S (cont)	k	+91n	8.5			-18n	8.7	-12	8.7		
	l	+98n	8.9			-25n	9.7?	-14	9.7		
	m	+99n	9.8				n.s	-11	7		
	n	+90n	n.s				—		—		
Seq T	a	-34n	4.8							-48l	4.9
66 =	b	-22	5.1							-75l	5.2
51 =	c	-16n	5.5							66l	5.7
47 =	d	-8n	5.9							69l	6.1
	e	-19n	6.2							58l	6.3
	f	26n	7.0							46l	6.9
	g	-27n	7.8							-56l	7.6
48 =	h	-14n	7.9							61l	7.9
	k	-18n	8.9							61l	9.0
	l	-13n	9.9?							61l	9.8
Seq G	a	72l	5.5	89 76l	5.3	106l	5.5	121l On edge of film			
53 =	b	55l	5.9	73l	5.9	88l	5.8	105l	5.8		
59 =	c	57l	6.3	74l	6.5	90l	6.7	107l	6.5		
	d	63l	6.5	81l	6.7	97l	6.9	114l	6.9		
	e	60l	7.3	76l	7.2	93l	7.3	109l	7.3		
	f	62l	7.7	79l	7.7	95l	7.8	112l	7.8		
	g	53l	8.7	71l	8.5	87l	8.7	104l	8.5		
	h	57l	9.0	73l	8.9	90l	9.0	106l	9.0		
	k	62l	n.s	79l	9.9?	96l	9.9?	113l	9.9		
Seq J	a	3.1 -89	3.3	3.0 -85n	3.2	-79 3.0	3.2	-76 3.1	3.3	-84 3.1	3.3
	b′	-107	5.0	-102n	5.1	-95	5.1	-89	5.3	-93	5.3
	c	-103	5.5	-97n	5.5	-89	5.5	-83	5.5	-87	5.7
	d	No stand;					–				–
	e	" " "?					–				

Plot for Dist. Include Plates 15997, 15998, 15999 page 28

Plot for Dist.

Plot for Dist.

Aug 18, 1919

Sc m

Polar Seq Prim.

		MC 16001 Sc 1	MC 16001 Sc 2	MC 16002 Sc 1	MC 16002 Sc 2	MC 16003 Sc 1	MC 16003 Sc 2
Seq S (cont)	k	44 ~~3~~l	8.7	78l.	8.8		8.8
	l	38 ~~20~~l	9.0	+74l	7		9.0
	m	38 ~~25~~l	98?	+76l	—		9.8
Seq T,	~~a~~		-		-		-
	b	61 ~~48~~l	4.9	83l	5.0		4.9
	~~b~~	89 ~~75~~l	5.2	101l	5.3		5.1
	c ~~d~~	80 ~~66~~l	5.5	101l	5.7		5.5
	d	82 ~~69~~l	6.1	108l	6.1		5.9
	~~f~~	73 ~~58~~l	6.5	97l	6.5		6.3
	f	61 ~~46~~l	6.9	98l	7.0		6.9
	g	79 ~~56~~l	7.5	89l	7.7		7.8
	h	96 ~~61~~l	8.0	102l	8.2		8.1
	k	76 ~~61~~l	89	9 ~~8~~9l	8.8		8.9
	l	80 ~~66~~l	98?	103l	9.8		9.8
Seq Y ~~Seq~~	a						5.5
	b						6.0
	c						6.7
	d						7.0
	e						7.5
	f						7.9
	g						8.5
	h						9.3
	k						7

Seq γ					
a	-90l	g -98l		2.9	7.3
b′	-96	h -101l		5.1	7.8
c	-90	k -102		5.7	8.1
d		l -103		-	8.3
e		m -109		-	8.5
f		n -105l		-	8.8

Seq γ	MC 16001 Sc 1	MC 16001 Sc 2
a	-90l 3.1	
b′	-96	5.1
c	-90	5.5
d		—
e		—
f		—
g	-98l	7.3
h	-101l	8.0
k	-102	8.3
l	-103	8.7
m	-109	8.7
n	-105l	9.0

Seq γ	MC 16002	
a	3.0	
b	5.5	5.5
c	5.7	5.9
d	—	
e	—	
f	—	
g		7.8
h		8.5
k		9.1?
l		
m		
n		
o		

Too faint

Aug 18, 1919

88.0

ScM

Polar Sag Prism

Sag γ –

Plt for Dist.

Include MC16001 p.36 top, right "
16002 " bottom "
16003 " bottom

	MC15996 Sc1	Sc2	MC15997 Sc1	Sc2	MC15998 Sc1	Sc2	MC15999 Sc1	Sc2	MC16000 Sc1	Sc2
γ	no star?		·	–		—		—		—
g	-91	7.0	-90r	7.2	-85	7.3	-83	7.3	-91	7.3
h	-99	7.9	-96r	8.0	-91	7.9	-89	8.0	-96	8.0
k	-102	8.0	-100r	8.1	-94	8.1	-91	8.1	-97	8.3
l	-106	8.3	-103	8.3	-97	8.5	-96	8.3	-98	8.5
m	-106	8.5	-109	8.5	-102	8.7	-99	8.7	-103	8.7
n	-101	8.7	-99	8.7	-94	8.9	-92	9.0	-99	8.9
o	-107	8.9	-104	9.1	-99	9.1	-96	9.1	-101	9.3
p		n.s	-104	n.s.		7	-98	—		—
878	-51r	4.1	-42r	3.9	-33	4.0	-32	4.1	-45l	4.0
894	-31r	4.0	-24	3.9	-22	4.0	-31r	4.2	-51l	4.1
948 9	3.5 29r		3.5' -13r		-7l	3.7	21l	3.7	43l 3.7	3.9
957 8	~~6.0~~ 47r	6.0	30r	5.8	13r	5.8	3l	5.9	24l	5.8
966	46r	4.1	29r	4.1	13r	4.0	+7l	4.1	26l	4.0
2035	3.0 -45r	3.2	2.9 -33r	3.1	-21	3.0 2.8	-19	3.1 2.9	-36l 2.8	3.0
323	72l	4.9	83l	4.8	100l	5.0	117l	50	off pl.	
326	78l	6.1	94l	6.3	110l	6.2	off pl.		" "	
green 13	53l	5.5		5.5	85l	5.3	102l	5.5	on edge of film	

Sag R

Plt for Dist

	MC15996 Sc1	Sc2	MC15997 Sc1	Sc2	MC15998 Sc1	Sc2	MC15999 Sc1	Sc2	MC16000 Sc1	Sc2
a	-67r								-90l	5.4
b	-62								-79l	~~5.7~~ 5.5
c	-62								-68l	6.2
d	-68r								-56	ε 4.9 6.5
e									-62	s 7.7 7.5
f	-72r								-58	7.9 7.7
g									-67	7.9
h									-61l	8.8
k									-62	9.0
l	-77r								-59	n.s.

Aug 18, 1919

Polar Seq Prim

Seq U	MC16000 Sc1	Sc2	MC16001 Sc1	Sc2	MC16002 Sc1	Sc2	MC16003 Sc2
a	+24l	4.9	+35l				
b	7l	5.5	+22l				
c	29l ~~+11l~~	5.7	44l				
d	+24l	6.2	38l				
e	+11l	7.1	+23l				
f	+22l	8.0	+34l				
g	18l	8.5	33l				
h	17l	8.9	32l				
k	+18l	9.5	29l				
l	+16l	7	30l				
878	-46l	4.1 ~~3.9~~	-46l	4.2	65l	4.3	4.0
894	-52l	4.2	-52l	4.2	85l	4.5	4.1
949	44l 3.5		44l	3.9	94l	4.1	3.9
958	25l	5.8	25l	5.9	+88l	6.1	5.9
966	28l	4.0	28l	4.1	+93l	4.3	4.1
2035	-27l 2.8	3.0	-27l	3.2 3.0	76l	3.4 3.2	3.2 3.0
323	Off pl.		Off pl.		Off pl.		5.0
326	" "		" "		" "		6.3
"13"	On edge of film		" "		" "		5.7
Seq R a			-79l	5.3			
b			-~~77~~ 89l	5.5			
c			-~~68~~ 77l	6.1			
d			-~~5~~64l	6.9			
e			-~~62~~ 70l	7.5			
f			-~~58~~ 65l	7.8			
g			-~~64~~ 75l	7.9			
h			-~~67~~ 79l	8.7			
k			-~~62~~ 70l	8.9			
l			-59 66l	9.9?			

2 P.M. Aug 17

Sight - very poor

Plt for Distance

Aug 20, 1919

Sc M

Polar Seq. PC-s (Ser 961)

10:30

		MC15996		MC15998		MC16000		MC16002	
		Sc1	Sc2	Sc1	Sc2	Sc1	Sc2	Sc1	Sc2
	1	Off pl.		3.7	3.9	3.5	3.7		3.9
near edge	3		5.5		5.8		5.5	Off pl.	
	4	Off pl.			5.5		5.5		5.8
	5		6.3		6.5		6.3	Off pl	
	6		5 7.7		7.7	Off pl	-	"	"
	7		7.9		7.9		7.9		8.1
near gr	8		9.1		9.3		90	Off "	
	9		9.9?		9.8	Off pl.		"	"
	10		n.s		n.s		n.s	"	"
	2r		7.7		8.7		8.5		8.7

		MC15997		MC15999		MC16001		MC16003	
	1	Off pl-		Sc1	4.0	3.8	4.0	Off pl	-
Near edge	3		5.7		5.7		5.7		5.5
On edge.	4		5.5		5.5		5.7	Off pl.	.
	5		6.3		6.5		6.7		6.5
	6		7.5		7.7	Off pl	-		7.8
	7		7.7		7.9	" "	-		8.1
	8		9.3		9.1	" "	-		9.0
	9		7 –		9.8	" "	-		9.9
	10		n.s		n.s		n.s		n.s
	2r		8.6		8.5		8.3		8.8

11.30 –

Plot for Distance

Aug 20, 1919

Se M

Diffraction Images

1:30

	MC 15996		MC 15998		Images along MC 16000		MC 16002	
	g Se 1	h + Se 2	g	h	g	h		
1	Off pl.		13		2.9	2.9	2.9	2.8
2	"	"	–		–	–	—	
3	3.4	3.4	3.5	3.5	3.4	3.4	Off pl..	
4	Off pl. Se 2		Se 2 4.0	3.9	Se 2 3.8	3.9	4.1	4.3
5	5.1	5.1	5.1	5.0	5.0	5.1	Off	"
6	6.3	6.3	6.3	6.3	Off pl.		"	"
7	6.5	6.7	6.5	6.7	+p.		+p	
8	8.0	8.1	7.9	8.1	7.8	8.0	Off	"
9	8.8	9.0	8.8	9.1	Off pl.		"	"
10	9.1	9.3	9.1	9.3	9.3	9.3	"	"
2n	7.5	7.7	7.3	7.3	7.1	7.3	+p	
4n	9.5	9.7	9.5	9.7	9.3	9.5	"	
88° 105	9.7	9.7	9.7	9.8	9.5	9.5	"	
115	9.8	9.9	9.7	9.9	9.5	9.7	"	

	MC 15997		MC 15999		MC 16001		MC 16003	
1	Off pl. Se 1		2.9	3.0	2.8	2.9	Off pl	
3	3.5	3.5	3.7	3.7	+p		3.9	3.7
Edge of film. 4	Se 2 4.3	4.3	Se 2 4.1	4.2	4.2	4.3	Off	"
5	5.1	5.2	5.1	5.1	5.0	5.1	5.2	5.3
6	6.2	6.1	6.1	6.3	Off pl		6.5	6.5
7	6.5	6.3	6.3	6.3	"	"	6.7	6.7
8	8.1	8.3	7.9	8.1	"	"	8.1	8.1
9	8.9	8.9	9.0	8.9	"	"	9.0	9.1
10	9.0	9.2	9.1	9.3			9.3	9.3
2n	7.2	7.3	6.9	7.1	7.2	7.3	7.1	7.3
4n	9.3	9.5	9.3	9.3	9.3	9.3	9.3	9.3
88° 105	9.5	9.7	9.5	9.7	9.3	9.5	9.5	9.5
115	9.7	9.7	9.7	9.8	9.7	9.7	9.5	9.7

3:00

Aug 21, 1919

Sc M — MC Ser. 962 – Polar Seq – Primary

11:00 — 20h 17m

On edge

Plot for Distance.

also plot curve for mean of MC16004 and MC16011

	Cor. 0.0 MC 16004 Sc 1	Sc 2	Cor. -.2 MC 16005 Sc 1	Sc 2	Cor. -1 MC 16006 Sc 1	Sc 2	-1 MC 16007 Sc 1	Sc 2	-1 MC 16008 Sc 1	Sc 2
1	off pl		B		B		B		B	
2	.. ..		—		—		—	.:	—	
3	+101r 1.0 1.2		+91r 1.0 1.2	1.0	+85 1.0 1.2	11 ~~1.0~~	B	.	1.0 1.2	1.1
4	-97r 1.2 1.4		-85r 1.1 1.3	1.1	-75r 1.0 ? 1.2 ?	1.1 ~~1.0~~ ?	B	.	1.1 1.3	1.2
5	+46 1.4 1.6		+49l 1.5 1.7	1.5	+58l 1.5 1.7	6 1.5	1.3 1.5 1.4		1.5 1.7	1.6
6	60l 2.0 2.2		79l 1.9 21	1.9	96l 2.0 2.2	2.1	2.0 2.2 2.1		Off pl	
7	-88l 2.3 2.5		-103l 2.1 2.3	2.1	-118l 2.1 2.3	2.2	Off fiber		" "	
8	+46l 3.2 3.4		+56l 3.1 3.3	3.1	+70l 3.1 3.3	3.2	3.0 3.7 3.1		3.2 3.4	3.3
9	+53l 3.8 4.0 3.95	3.9	+63l 3.6 3.8 3.85	3.65 3.8	+78l 3.5 3.7 3.75	3.65 3.8	3.5 3.7 3.6		3.7 3.9 3.85	3.8 3.75
10	24l	4.1	42l	3.7 3.9	60l	3.9 4.0		3.9 4.0		4.0 4.1
11	-39l	5.1	56l	4.8 5.0	72l	4.8 4.9		4.9 5.0		4.8 4.9
12	-34l	5.5	-48l	5.1 5.3	-64l	5.2 5.3		5.4 5.5		5.2 5.3
13	-26l	5.9	-41l	5.6 5.8	57l	5.6 5.7		5.8 5.9		5.7 5.8
14	18l	6.5	37l	6.1 6.3	54l	6.4 6.5		6.2 6.3		6.2 6.3
15	30l	7.2	48l	6.9 7.1	66l	7.0 7.1		7.1 7.2		7.0 7.1
16	12l	7.7	29l	7.6 7.8	47l	7.6 7.7		7.4 7.5		7.4 7.5
17	-17l	7.9	32l	7.9 8.1	48l	7.8 7.9		7.7 7.8		7.8 7.9
18	-16l	5 8.7	32l	8.5 8.7	48l	8.4 8.5		8.6 8.7 ws ~~9.1~~		8.6 8.7
19	-20l	8.9	37l	8.9 9.1	54l	8.8 8.9		8.9 9.0		8.8 8.9
20	19l	9.3	37l	7	54l	9.2 9.3		7		9.4 9.5? 7
2r	-21r 2.3	2.5	-16 2.3		never def. -26l 2.5?		2.3		2.5	
4r	-30r 3.5	3.7	-16r 3.4		-16l 3.5		3.4			4.1
5r	-56l	5.3	-70l	5.3	-84l	5.5		5.2		5.1
6r	38l	5.5	57l	5.7	75l	5.7		5.5		5.5
7r	-22l	6.5	38l	6.5	55l	6.7		6.5		6.5
8r	-21l	7.3	-35l	7.1	51l	7.3		7.1		7.2
9r	-28l	8.0	-43l	8.1	58l	7.9		7.8		7.8
10r	-29l	8.9	45l	9.0	62l	8.9		8.8		8.9

Aug 21, 1919

MC Ser. 962 – Polar Seq Prim

Plot 1

		20h 17m Cor 0 16009	17h 51m +0.2 16010	21h 14m +0.2 16011	MC 16004 − 16011 ~~+0.2~~			Mean 16004 (a) 16011 (+02)		Diff
	1	→ B Sc2	[illegible] Sc2	Sc1	Sc2					
	2	—	—	13						
	3	1.0 1.2	B	—			3	1.2	. a	4.61
	4	1.0 1.2	B	Off pl.			4	1.4	. a	4.59
	5	1.4 1.6	Off pl.	1.3 1.5	1.7	+1	5	1.65	1 1	4.84
	6	Off pl.	" "	1.8 2.0	2.2	+2	6	2.20	0 0	4.91
	7	" "	" "	1.9 2.1	2.3	+4	7	2.40	1 1	4.91
	8	3.3 3.5	" "	2.5 2.7	2.9	+7	8	3.15	2 3	5.08
	9	3.7 3.9	" "	3.4 3.6	3.8	+4	9	3.88	~~4 7~~ 0 1	4.95
Near edge	10	3.7 3.9 3.90 3.9	" "	3.5 3.7	3.9	+4	10	4.00	1 1	5.02
	11	Off film	" "	4.0 4.2	4.25 4.4 4.3	+8	11	4.~~68~~ 75	3 4	4.80
" "	12	4.9	4.4 4.2		5.0 4.8	~~+6~~ 7	12	5.25	3 2	4.61
	13	5.5	5.2 5.0		5.5 5.3	+6	13	5.70	2 2	4.60
	14	5.8	Off pl.		6.1 5.9	~~+8~~ 6	14	6.30	2 2	4.35
	15	Edge of film	" "		6.7 6.5	+7	15	6.95	2 3	4.13
	16	7.3	On edge of film		7.1 6.9	+8	16	7.40	3 3	4.00
	17	7.5	7.7 7.5		7.7 7.5	+4	17	7.80	1 1	3.83
	18	8.0	8.2 8.0		8.3 8.1	+4	18	8.40	1 1	3.66
	19	8.5	On edge of film		8.7 8.5	+4	19	8.80	1 1	3.62
	20	.7	Off pl.		9.2 9.0	+3	20	9.25	1 1	3.48
	21				9.5 9.3	•	21	9.5	: a	
	22				9.9 9.7	•	22	9.9	: a	
	2r	2.5	2.3	2.3	2.7 2.5	0	2r	2.60	1 1	
	4r	3.8	3.5	3.4	3.8 3.6	+1	4r	3.75	1 0	
	5r	Off pl.	6.0		5.0 4.8	+5	5r	5.15	1 2	
	6r	" "	Off pl.		5.5 5.3	+2	6r	5.50	0 0	
	7r	6.1	ns edge		6.2 6.0	+2	7r	6.35	1 2	
	8r	6.9	7.0		7.0 6.8	+5	8r	7.15	1 2	
	9r	7.7	7.8		8.0 7.8	+2	9r	8.00	0 0	
	10r	8.7	Off film		8.9 8.7	+2	10r	8.90	0 0	
	11r	7	" "		9.7 9.5	•	11r	9.7	. a	

SeM

Aug 21, 1919
Stopped at 1.40

~~Aug 22, 1919~~

Polar Seq Prim

	Cor 0 MC16004 Sc 1	Sc 2	Cor -.2 MC16005 Sc 1	Sc 2	-.1 MC16006 Sc 1	Sc 2	-.1 MC16007 Sc 1	Sc 2	-.1 MC16008 Sc 1	Sc 2
11r	-22l	7	40l	n.s	57l	9.8?		7		7
12r	-18l	n.s	35l	n.s	52l	n.s		n.s		n.s
4s	39l	5.5	57l	5.5	74l	5.4		5.3		5.3
5s	-22l	6.7	39l	6.7	56l	6.5		6.5		6.5
6s	-30l	7.1	46l	7.2	62l	7.1		7.0		7.1
7s	-22l	9.0	39l	8.9	56l	9.0		8.8		8.8
88° 10.5	-38r 3.5	3.7	-34 3.5	3.1	-39l 3.7	3.9	3.5		3.9	~~4.2~~
11.5	33r 3.9	~~3.9~~ 4.1	-18r 3.5	4.1	-12 Copied Bk 53; 53	3.9	3.5			4.3
Seq I a					mag. Curve -42 9.70 4.80 4.9	5.0				
66 = b					-53l 10.02 4.72 5.3	5.4				
51 = c					-42l 10.22 4.62 5.6	5.7				
47 = d					-38l 10.55 4.45 6.1	6.2				
e					-37l 10.74 4.34 6.4	6.5				
Reduce with mean Polar Curve f					-25l 11.13 4.13 7.0	7.1				
g					-42l 11.46 3.96 7.5	7.6				
h					-35l 11.67 3.87 7.8	7.9				
k					-39l 12.10 3.70 8.4	8.5				
l					-40l 12.45 3.55 8.9	9.0				
m					-45l . . 9.7	9.8				
Seq V a					<10 Copied Bk 53; 160 9.70 4.80 4.9	5.0	Copied Bk 53; 161 9.62 4.82 4.8	4.9		
b					" 10.41 4.51 5.9	6.0	10.35 4.55 5.8	5.9		
Reduce with mean Polar Curve c					" 10.75 4.35 6.4	6.5	10.62 4.42 6.2	6.3		
d					" 11.02 4.22 6.8	6.9	11.13 4.13 7.0	7.1		
e					" 11.40 4.00 7.4	7.5	11.40 4.00 7.4	7.5		
f					" 11.81 3.77 8.1	8.2	11.~~62~~94 3.74 8.2	8.3		
g					" 12.10 3.70 8.4	8.5	12.10 3.70 8.4	8.5		
h					" 12.23 3.63 8.6	8.7	12.38 3.58 8.8	8.9		
k					" 12.53 3.53 9.0	9.1	12.55 3.55 9.0	9.1		
l					" 12.83 3.43 9.4	9.5	12.9 9E 3.39E 9.6	9.7?		
m						n.s		n.s		

Aug 22, 1919

Polar Seq Prim

Se M

		0 MC16009 Se1	Se2	+.2 MC16010 Se1	Se2	+.2 MC16011 Se1	Se2	Diff
	4s	Off pl.		Off pl.			5.3	+2
	5s		6.1	"	"		5.9	+8
	6s		6.5	"	"		6.7	+4
	7s		8.7	"	"		8.3	+7
88	10s		3.8	3.5		3.4	3.6	+1
	11s		4.0	3.7		3.5	3.7	+4

Reduce with mean Polar Curv

Copied Bk 53;149

Seq S

Reduce with mean Polar curv

	magn	curve		
a	9.94	4.74	5.2	5.0
b	10.15	4.65	5.5	5.3
c	10.48	4.48	6.0	5.8
d	10.82	4.32	6.5	6.3
e	10.94	4.24	6.7	6.5
f	11.20	4.10	7.1	6.9
g	11.60	3.90	7.7	7.5
h	12.16	3.66	8.5	8.3
k	12.30	3.60	8.7	8.5
l	12.53	3.53	9.0	8.8
m	7	.		7
878	9.04	4.94	4.1	3.9
958	10.41	4.51	5.9	5.7
966	9.28	4.88	4.4	4.2
2035	8.02	5.02	3.0	2.8

(2035: magn. curv)

Seq U

−.1

MC16008 Se1 Se2 ~~5.5~~

Copied Bk 53;157

	magn	curv		
a	10.09	9 4.6~~8~~	5.4 5.5	
b	2 10.~~3~~8	8 4.5~~8~~	.8 ~~5.3~~	5.7 assumed 5.8
c	10.48	8 4.4~~5~~	6.0 6.1	
d	10.87	7 4.2~~4~~	6.6 6.7	
e	11.40	4.09 ~~3.96~~	7.4 7.5	
f	11.60	3.90 ~~3.87~~	7.7 7.8	
g	11.81	.81 3.~~77~~	8.0 8.1	
h	12.16	6 3.6~~3~~	8.5 8.6	
k	12.46	6 3.5~~3~~	8.9 9.0	
l	12.67	7 3.4~~6~~	9.2 9.3	
m	13.00	3.40e	9.6 9.7	

Seq W

Reduce with mean Polar Curv.

Copied Bk 53;165

a	9.78	8 4.7~~8~~	5.0 5.1
b	10.09	9 4.6~~8~~	5.4 5.5
c	10.22	62 4.59	5.6 5.7
d	10.88	8 4.2~~4~~	6.6 6.7
e	11.13	3 4.1~~0~~	7.0 7.1
f	11.81	.81 3.~~77~~	8.0 8.1
g	11.81	.81 3.~~77~~	8.0 8.1
h	12.09	9 3.6~~8~~	8.4 8.5
k	7	.	7

Aug 23, 1909
Polar Seq. Prim

Se M

12:15 * MC 16009 Gr. 0

	*	Set 1	Set 2			Diff. from page 41
Polar Seq.	2	—				
	4	1.0	1.2		1.2	0
	6	Off pl.			.	.
	8	3.1	3.3		3.3	
	10	3.7	3.9	3.9	3.90	+2
	12			4.9	4.9	0
	14			5.9	5.9	−1
	16			7.2	7.2	+1
	18			7.9	7.9	+1
	20			7		

$\frac{4-1}{6}$
+0.05

Make no corrections in plates measured at second setting

Stopped at 1.30

To connect with meas. p. 41

~~2.20, 3.10~~

Aug 25, 1919

Seq. 9b2 – White Stars only – Primary

SeM

10:30 to 2:20

	MC 16004 (Take mean with MC16011 p. 50)	Cor. 0		MC16005 −.2 Sc 1	Sc 2		* MC16006 −.1 (for Prim Seq.) Sc 1	Sc 2	MC16007 −.1 Sc 1	Sc 2	MC16009 Cor. 0 Sc 1	Sc 2
1	Off pl.											
3	1.1	1.3										
4	1.1	1.3										
5	1.6	1.8										
6	2.1	2.3										
7	2.3	2.5										
8	3.2	3.4										
9		3.9										
10		4.1										
11		5.2										
12		5.5										
13		6.0										
14		6.7										
15		7.1										
16		7.5										
17		8.0										
18		8.6										
19		8.8										
20		9.5										
a	65r	5.5	48r	5.1	5.3	−32r	5.2	5.3	5.2	5.3		5.5
b	−69r	5.9	−55r	5.8	6.0	−43r	5.9	6.0	5.8	5.9		6.0
c	50r	6.0	−33r	5.9	6.1	−21r	6.0	6.1	6.0	6.1		6.1
d	55r	6.9	−39r	6.6	6.8	−25r	6.6	6.7	6.6	6.7		6.7
e	−69r	7.5	−54r	7.3	7.5	−40r	7.4	7.5	7.2	7.3		7.3
f	63r	7.7	−46r	7.6	7.8	−31r	7.7	7.8	7.6	7.7		7.7
g	−59r	8.0	−44r	W.S.? 8.3	~~8.5~~ " "	−33r	8.2	8.3	8.2	8.3		8.1
h	−66r	8.5	−45r	8.7	8.9	−32r	8.6	8.7	8.8	8.9		8.7
k	67l	9.0			7			7		n.s		n.s
l	64r	7			n.s			n.s		n.s		n.s

Seq U

Plot for Dist.

Include
MC16008, p.43
MC16010, p.46
MC16011, p.50

Sc m

Aug 25, 1919

Polar Seq Primary

Copied B 53;161

Aug 26 1 ~~10.10~~

MC 11610

Cor. +.2

		Sc 1 magn.	curve		Sc 2
Seq V	a	9.83	4.83	5.1	~~5.3~~ 4.9
	b	10.20	4.50	5.7	5.5
	c	10.37	4.37	6.0	5.8
	d	10.80	4.10	6.7	6.5
	e	11.02	4.02	7.0	6.8
	f	11.84	3.74	8.1	7.9
	g	12.17	3.67	8.5	8.3
	h	12.71	3.61	9.1	8.9
	k	13.25E	3.55E	9.7	9.5
	l				ns

Copied Bk 53;165

Seq W	a	9.61	4.81	4.8	4.6
	b	9.90	4.70	5.2	5.0
	c	9.98	4.48	5.5	5.3
	d	10.53	4.23	6.3	6.1
	e	10.94	4.04	6.9	6.7
	f	11.76	3.76	8.0	7.8 ~~8~~
	g	12.17	3.67	8.5	8.3
	h	12.71	3.61	9.1	8.9

Copied Bk 53;157

Seq U	a	9.90	4.70	5.2	5.0
	b	10.20	4.50	5.7	5.5
	c	10.20	4.50	5.7	5.5
	d	10.66	4.16	6.5	6.3
	e	10.94	4.04	6.9	6.7
	f	11.52	3.82	7.7	7.5
	g	11.93	3.73	8.2	8.0
	h	12.34	3.64	8.7	8.5
	k	12.72	3.62	9.1	8.9
	l	7	.		7

Copied Bk 53;161

MC 11609

Cor. 0

		Sc 1 magn.	curve	Sc 2
Seq V	a	9.96	4.86	5.3
	b	10.30	4.40	5.9
	c	10.53	4.23	6.3
	d	11.09	3.99	7.1
	e	11.37	3.87	7.5
	f	12.17	3.67	8.5
	g	12.34	3.64	8.7
	h	12.52	3.62	8.9
	k	13.25?	3.55	9.7?
	l		.	ns
Seq W	a	9.96	4.66	5.3
	b	10.08	4.58	5.5
	c	10.20	4.50	5.7
	d	10.80	4.10	6.7
	e	11.23	3.93	7.3
	f	11.84	3.74	8.1
	g	12.17	3.67	8.5
	h	12.52	3.62	8.9
	k	7	.	7

Aug 25, 1919

Sc M

Polar Seq Primary

		Corr. 0 MC 16004 Sc 1	Sc 2	Corr. -.2 MC 16005 Sc 1	Sc 2	-.1 MC 16006 Sc 1	Sc 2	-.1 MC 16007 Sc 1	Sc 2	-.1 MC 16008 Sc 1	Sc 2
Seq V	a	43r	5.1	25r	5.1 5.3						5.2 5.3
Plot for Dist.	b	40r	6.0	22r	5.9 6.1						6.0 6.1
Include	c	37r	6.3	19r	5.3 6.5						6.4 6.5
MC 16006, p.42	d	32r	7.1	14r	7.1 7.3						7.2 7.3
16007, p.42 16009 p.46	e	31r	7.4	13r	7.5 7.7						7.5 7.6
16010 p.46 16011 p.50	f	30r	8.2	12r	8.3 8.5						8.4 8.5
	g	30r	8.5	12r	8.6 8.8						8.6 8.7
	h	32r	8.7	14r	8.9: 9.1?						8.8 8.9
	k	30r	7		. n.s						9.6: 9.7?
	l		–		. n.s						. n.s
Seq W	a	+52r	5.5	+38r	5.1 5.3	+26r	5.2 5.3		4.9 5.0		
Plot for Dist.	b	63r	5.8	46r	5.3 5.5	+30r	5.4 5.5		5.4 5.5		
Include	c	65r	5.5	47r	5.3 5.5	-30r	5.6 5.7		5.4 5.5		
MC 16008 p.43 16009 p.46	d	62r	6.7	45r	6.7 6.9	28r	6.6 6.7		6.8 6.9		
16010 p.46 16011 p.50	e	+54r	7.2	+40r	7.3 7.5	+31	7.2 7.3		7.2 7.3		
	f	59r	7.9	42r	7.9 8.1	+28r	8.0 8.1		8.0 8.1		
On edge of f-g	g	73r	8.4	56r	8.3 8.5	+41r	8.4 8.5		8.4 8.5		
	h	+62r	8.9	+47r	8.8 9.0	+35r	8.8 8.9		8.8 8.9		
	k	69r	7+	52r	9.3 9.5	36r	9.4 9.5		9.2 9.3		
	l		7		. n.s		n.s		n.s		
Seq K	a	70l	5.3	87l	4.9 5.1	104l	4.8 4.9				
Plot for Dist.	b	70l	5.7	87l	5.3 5.5	104l	5.4 5.5	All off plate			
Include MC 16011 p.50	c	71l	6.0	89l	5.7 5.9	105l	5.7 5.8				
	d	74l	6.7	90l	6.3 6.5	108l	6.4 6.5				
	e	90l	6.8	109l	6.5 6.7	Off film					
	f	87l	7.5	104l	7.0 7.2	On edge.					
	g	90l	7.9	108l	7.5 7.7	Off pl.					
	h	88l	8.3	105l	7.9 8.1	On edge					
	k	79l	8.7	96l	8.3 8.5	111l	8.9				
	l		n.s			n.s	n.s				

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Plot for Dist
Include MC16010 p.49 lower half
16011 p.51

Seq 2.	Cor. 0		−.2		−.1		−.1		−.1	
	MC16004		MC16005		MC16006		MC16007		MC16008	
	Sc1	Sc2	Sc1	Sc2	Sc1	Sc2	Sc1	Sc2	Sc1	Sc2
32		3.8	3.5			36 3.7	3.5			3.8
33		5.8		55 5.7		56 5.7		5.7		5.7
958	−52r	5.7	−39r	57 5.9	−31	56 5.7		5.7		5.7
966	−50r	4.2	−36r	43 4.5	−28	44 4.5		4.3	4.5	
1147	+38r	5.0	+24r	45 4.7	+18	46 4.7		4.5	4.5	
* 1156a	+18r 3.5		+13l	36 3.8	25l	37 3.8	3.5			3.7
1178a	+27r	5.3	+19	4.9 5.1	+25l	5.0		4.9		5.1
2056	55r	4.9	38r	46 4.8	21r	4.7				4.9
2057	58r	5.0	41r	47 4.9	−26~~4~~r	4.9				4.9
81		5.7		53 5.5		5.5		5.5	Off pl.	
2 stars numbered 1156b	+18r	6.2	+13l	6.1	25l	5.9		5.9		6.0
" " " 1178b	+27r	5.9	+19	5.7	+25l	5.5		5.5		5.5
Seq 3 delta a	off Plate		3.4	3.4 3.6	3.6	37 38	3.4	35 3.6	3.5	36 3.7
b			Off pl			52 5.3	edge	54 5.5		54 5.5
c			" "			72 7.3	"	72 7.3		72 7.3
d			" "			76 7.7	"	74 7.5		76 7.7
e				76 7.8		78 7.9		77 7.8		79 8.0
f				77 7.9		79 8.0		77 7.8		79 8.0
g			Off film			84 8.5		84 8.5		82 8.3
h			On edge			89 9.0		88 8.9		88 8.9
k			" "			92 9.3		94 9.5		94 9.5
l			off pl			ns		ns		–
m			" "			ns				–

Plot for Dist
Include MC16109
16110, ~~16111~~ p.49
MC16111 off plate

1156a + 1178a are nearer Seq V than 1156b + 1178b

Aug 25, 1919

ScM 1. Corr 0

MC 16009

		Sc1	Sc2
	32		3.7
	33		5.7
	81	Off pl.	~~5.6~~
	958		5.6
	966	4.5	
	1147	4.5	
	1156 a	3.7	
	1178 a		5.1
	2056		4.7
	2057		4.8
	1156b		5.9
	1178f		5.7
Seq S	a	3.4	3.6
	b		5.2
	c		7.3
	d		7.7
	e		8.0
	f		7.9
	g		8.6
	h		9.1
	k		9.5?

Plate poor in this region

+.2

MC 16010

		Sc1	Sc2
Seq S delta	a		4.9
	b		5.1
	c		6.0
	d		6.2
	e		6.9
	f		7.3
	g		7.7
	h		8.1
	k		8.5
	l		8.8
	m		9.5
	32	3.5	
	33		5.7 5.5
	81	Off pl.	
	958		5.7 5.5
	966		4.5 4.3
	1147		4.1 3.9
	1156 a	3.2	3.6 3.4
	1178 a		4.2 4.0
	2056		4.3 4.1
	2057		4.2 4.0
	1156 b	Off pl	
	1178 b	" "	

1919phae.proj.1011t

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Sc M. Corr. +.2 Polar Seq. Primary

Corr. +.2

	Polar Seq.	MC 16011 Sc1	Sc2	Diff 16004 p.45			MC 16011 Sc1	Sc2	Diff p47
see p.45	1	B			Seq V	a	4.5 4.7 4.9		+4
	2	—			see p.47	b	5.5 5.7		+5
	3	Off Pl		·		c	5.9 6.1		+4
	4	1.0	1.4 1.2	+1		d	6.5 6.7		+6
	5	1.4	1.8 1.6	+2		e	6.7 6.9		+7
	6	1.9	2.3 2.1	+2		f	7.9 8.1		+3
	7	2.0	2.4 2.2	+3		g	8.3 8.5		+2
	8	3.0	3.4 3.2	+2		h	8.7 8.9		0
	9	3.7	4.1 3.9	0		k	9.3 9.5		·
	10		4.0 3.8	+3		l	9.8? 10.0?		·
	11		4.5 4.3	+9	Seq W	a	/	4.9 4.7	+8
	12		5.3 5.1	+4	see p.47	b		5.3 5.1	+7
	13		5.8 5.6	+4		c		5.7 5.5	+1
	14		6.4 6.2	+5		d		6.2 6.0	+7
	15		7.0 6.8	+3		e		6.7 6.5	+7
	16		7.5 7.3	+2		f		7.9? 7.7? dif.	+2
	17		7.9 7.7	+3		g		Off pl	·
	18		8.5 8.3	+3		h		8.9 8.7	~~+2~~
	19		8.7 8.5	+3		k		On edge	
	20		8.9 9.1	+4	Seq X	a		4.9 4.7	+8
Seq U	a		5.2 5.0	+5	see p.47	b		5.3 5.1	~~+4~~ 8
see p.45	b		5.9 5.7	+2		c		5.7 5.5	~~+4~~ 5
	c		5.7 5.5	+5		d		6.2 6.0	+9
	d		6.7 6.5	+4		e		6.1 5.9 faint	
	e		6.9 6.7	+8		f		6.7 6.5	~~+10~~
	f		7.5 7.3	+4		g		7.1 6.9	
	g		8.1 7.9	+1		h		7.5 7.3	
	h		8.7 8.5	0		k		8.7 8.5	
	k		9.2 9.0	0		l		9.7? 9.5?	
	l		10.1? 9.9?	·					

Aug 26, 1919

Se M
10:10

~~Seq~~

*MC 16000 sup. p.45 H

	Sc1	Sc2	Diff from p.45
1	13	.	
3	1.0	1.2	+1
5	1.1	1.3	+5x
7	1.6	1.8	+7x
9	3.8	4.0	−1
11	w.s	~~4.1~~ 5.1	+1
13		6.0	0
15		6.9	+2
17		7.9	+1
19		8.7	+1

Cor. +.2

MC 16011 sup. p.48

	Sc1	Sc2
32	3.2	3.6 3.4
33	~~5.2~~	5.4 5.2
81		5.3 5.1
958		5.5 5.3
966		4.2 4.0
1147	3.5	3.9 3.7
1156a	3.3	3.7 3.5
1178a		4.3 4.1
2056		4.2 4.0
2057		4.3 4.1
1156b.		5.5 5.3
1178b		5.2 5.0

Polar Seq. Plot 1

Mean (b) 16004 p.45 16911 p.50			Diff.
3	1.3	01	4.51
4	1.35	00	4.64
5	1.80	00	4.69
6	2.30	00	4.81
7	2.45	10	4.86
8	3.40	00	4.83
9	4.00	11	4.83
10	4.05	10	4.97
11	4.85	43	4.70
12	5.40	11	4.86
13	5.90	11	4.40
14	6.55	12	4.10
15	7.05	10	4.03
16	7.50	00	3.90
17	7.95	01	3.68
18	8.55	01	3.51
19	8.65	21	3.77
20	$\overset{9}{8}$.20	33	3.53

12:00

* To connect with meas. p.45

Aug 26, 1919

Sc M Polar Seq PC's Ser 962

1;30

Plot for Distance

	Gr. 0		Gr. ~~.~~ 2		Gr. 0		Gr. 0	
	MC 16004		MC 16005		MC 16006		MC 16007	
	Sc 1	Sc 2	Sc 1	Sc 2	Sc 1	Sc 2	Sc 1	Sc 2
1	Off pl.			37 3.9		3.8		3.8
2	—		—		—	—		—
3		5.7		5.5 5.7		5.7		5.5
4		6.0		5.9 6.1		6.0		5.7
5		6.5		6.3 6.5		6.7		6.5
6		7.5		7.5 7.7		7.7	Near scr.	
7		7.8		7.5 7.7		7.8	Off pl.	
8		9.0		9.1 9.3		9.1		9.0
9		9.8		F		9.8?		9.7?
2 n		8.5		8.5 8.7		8.5		8.7

	Gr. 0		Gr. 0		Gr. 0		Gr. 0		
	MC 16008		MC 16009		MC 16010		MC 16011		Diff 16004
	Sc 1	Sc 2	Sc 1	Sc 2	Sc 1	Sc 2	Sc 1	Sc 2	
1		3.9		3.8	3.2		3.5	3.7	
3		5.5		5.6	On edge		Off pl		
4		5.7		5.8		5.5		5.5	+5
5		6.7		6.7	Off pl		~~Off pl.~~	6.5	0
6	Off pl		Off pl		Off pl			7.5	0
7	"	"	"	"	"	"		7.7	+1
8		9.2		8.9	"	"		9.1	-1
9		9.8		n.s	"	"		9.8	0
2 n		8.7		8.5		8.3		8.5	0

1; 50

Sc m
230 : 4

Aug 26, 1919

Polar Seq. – Diffraction Images

Plot for Distance

		Corr. 0			Corr. -.2			-.1			-.1			-.1		
		MC 16004			MC 16005			MC 16006			MC 16007			MC 16008		
		g Sc2		h Sc2	g Sc1		h	g Sc1		h Sc1	Sc1		Sc1	Sc1		~~Sc~~ 7
Off pl.	1	3.8		3.7	2.9 scale 3.1	2.95 3.15	3.0 scale 3.2	2.9	3.00 3.10 2.90	2.9	3.0	3.10 3.20 3.00	3.0	2.9	3.00 3.10 2.90	2.9
	2		3.75		Sc2 3.9	3.70 3.90	Sc2 3.9	Sc2 3.9	3.80 3.90	Sc2 3.9	Sc2 39	3.80 3.90	Sc2 3.9	Sc2 3.8	3.70 3.80	Sc2 3.8
On edge	4	3.8	3.80	3.8	4.1	3.95 4.05	4.0	4.1	4.00 4.10	4.1	4.0	3.90 4.00	4.0	4.1	3.90 4.00	3.9
	5	4.9	4.95	5.0	5.3	5.05 5.25	5.2	4.9	4.90 5.00	5.1	4.9	4.85 4.95	5.0	5.3	5.10 5.20	5.1
	6	5.8	5.85	5.9	6.3	6.10 6.30	6.3	5.7	5.65 5.75	5.8	tp		tp	Off pl		
	7	6.1	6.05	6.0	6.5	6.30 6.50	6.5	tp		tp	Off pl.			"		"
	8	7.9	7.95	8.0	8.3	8.10 8.30	8.3	7.9	7.80 7.90	7.9	7.8	7.70 7.80	7.8	tp	8.20	8.3
	9	8.7	8.70	8.7	9.0	8.80 9.00	9.0	9.0	8.86 8.95	8.9	8.8	8.75 8.85	8.9	tp	8.90	9.0
	10	8.9	8.95	9.0	9.3	9.20 9.40	9.5	9.0	8.95 9.05	9.1	9.0	8.95 9.05	9.1	9.1	9.00	tp
	11	7		7	—		—	—		—	—		—	—		—
	2r	7.5		7.5	7.5		7.7	dif		7.5	7.3		7.3	7.3		7.3
	32	9.1		9.0	9.3		9.3	9.0		9.0	9.1		9.1	9.0		9.1
	1156a	8.8		8.9	9.1 ~~8.9~~		9.3 ~~8.9~~	8.7		8.7	8.8		8.9	8.9		8.9
	88° 105	9.3		9.5	9.7		9.7	9.3		9.3	9.3		9.3	9.3		9.2
	88° 115	9.5		9.5	9.8		9.9	Sup		9.3	9.3		9.5	9.5		9.5
	4r	8.8		8.7							8.7		8.9	8.9		8.8

	Corr. 0		+.2		+.2	
	MC 16009		MC 16010		MC 16011	
	g	h	g	h	g	h
1	13	13	13	13	13	13
3	3.9	3.9	Off pl.		Off pl	Off pl.
4			3.9	39	3.4 Sc2	3.7 Sc2
5	49	5.0	Off "		4.9	4.9
6	Off pl		"	"	5.9	5.8
7	Off "		"	"	6.1	6.1
8	tp	tp	"	"	7.9	7.9
9	On edge		"	"	8.5	8.7
10	tp	tp	tp	tp	9.0	9.1
2r	7.3	7.5	7.1	7.3	7.1	7.1
4r	9.0	9.0	9.0	9.1	9.0	9.1
32	8.9	9.2	8.9	9.0	8.8	89
1156a	8.8	8.9	tp	tp	8.7	8.8
88° 105	9.1	9.2	9.0	9.2	9.1	9.0
115	9.3	9.5	9.5	9.3	dif	9.3

101 —

Set

+90°

Sequences Near N Pole

Oct ~~29~~ 30, 1919

MC 16114 Pole Plate badly broken

MC 16114 / 16121 } mean

For reducting

V on 16117

B on 16115

J on 16115

U on 16118

M on 16118

δ on 16119

	Sc1	Take mean mk 16121	Sc2	Page 58	Diff	121 −114	g		h	Diff	P58	Mean	Diff	PC	16121 −16114 Diff	P58	Mean	Diff
1	B			.	.		B		B	.				4.0	+1 048	41	405	043
4	B			.	.		B		B	.				5.3	+2 069	55	540	059
5	B			.	.		4.3	430 00	4.3	−1 219	420	425	2.24	5.8	+1 069	59	585	064
6	15 1.4	1.55 10		16	5.56	+1	5.0	5.05 01	5.1	+1 206	510	508	2.03	6.7	660 11 051 +1 6.5	67	665	056
7	16 1.5	1.70 11		1.8	5.61	+2	5.1	5.15 10	5.2	0 216	520	518	2.13	6.7	+2 061	6.9	680	051
8	30 2.9	2.90 11		2.8	5.33	−2	7.0	7.00 00	7.0	0 1.23	7.05	702	1.21	8.3	−1 −007	8.2	825	002
9	35 3.4	3.45 10		3.4	5.38	−1	8.0	8.05 01	8.1	−2 078	7.80	792	0.91	9.1	−1 −027	9.0	905	022
10	36 3.5	3.60 00		3.6	5.42	0	8.1	8.20 11	8.3	−1 082	8.10	815	0.87	Sup?	.		.	
11			4.25 01 4.2	4.3	5.30	+1	9.0	9.05 01	9.1	−1 050	895	900	0.58					
12			455 4.5	4.6	5.31	+1	9.3	9.40 11	9.5	−1 046	930	935	0.51					
13			5.05 01 5.0	5.1	5.25	+1	7											
14			5.50 00 5.5	5.5	5.15	0												
15			6.15 10 6.1	6.2	4.93	+1												
16			6.45 01 6.4	6.5	4.95	+1												
17			6.80 11 6.7	6.9	4.83	+2												
18			7.40 11 7.3	7.5	4.66	+1												
19			7.80 11 7.7	7.9	4.62	+1												
20			8.10 11 8.0	8.20	4.63	+1												
23			9.28 8.7	9.65	4.06	+4												
25			9.60 9.3	9.9	4.27	+6												
26			9.8	.	.													

P.C.

mean 6.0 to 9.0

4−1 / 4 +08

Primary

16121-16114

Read. 6.0 to 9.0

+12 / 8 +15

Primary, P.C., Diffs.

$\frac{18-8}{18} = +06$

	Sc1		Sc2		Page 58	0	Diff	g		h		P58	Mean	Diff	PC		16121 −16114
2r	2.1 2.0	2.10 00		5.77	2.1	0	5.77	6.1	6.20 11 +2	6.3	167	6.40	6.30	1.57	7.9	−003 8.0	+1 ~~+2~~
3r	3.2 3.1	3.15 01		5.55	3.1	0	5.60	7.7	7.70 00 −2	7.7	105	7.50	7.60	1.15	9.1	−035 9.0	1 −2
4r	3.4 3.3	3.40 00		5.70	3.4	0	5.70	8.0	8.00 00 0	8.0	110	7.95	7.98	1.12	7	. .	0
5r		4.40 11	4.3	5.61	4.5	+1	5.51	9.1	9.20 11 +3	9.3	071	9.50	9.38	0.66			+3
6r		5.10 00	5.00 11 5.1 4.9	5.30	5.1	0	2 5.80										
7r		5.50 00	5.5	5.20	5.5	0	5.20										
8r		6.15 10	6.1	5.10	6.2	+1	5.05 +1										

16121-16114
Diffs
6.0 to 9.0
2−7 / 6
−08

Sequences Near N Pole

Oct 30 ~~29~~, 1919

ScV

~~+1.30~~

MC 16117 Reduced with 16114, 16121

Copied 53'.161

Seq V +88.5

	Sc 1	Sc 2	Cu.	Magn
a		4.3	5.31	9.61
b		5.1	5.22	10.32
c		5.5	5.14	10.64
d		6.3	4.95	11.25
e		6.5	4.92	11.42
f		7.3	4.72	12.02
g		7.5	4.66	12.16
h		7.8	4.60	12.40
k		8.2	4.50	12.70
l		8.7	4.39	13.09
m		7.5	.	.

MC 16114 Pole (cont)

Diff	Page 58	~~Diff~~		Sc 2	Mean	Pc
4.90	69	5.00	9n	6.7	6.80 IV	
4.65	78	4.75	10n	7.60 LI 7.5 7.7	7.70 LL	
447 ~~392~~	85	447	11n	8.5	8.50 00	
4.43	91	448	12n	9.0	9.05 10	
5.27	480	522	4s	4.9	4.88 .01	
5.01	59	511	5s	5.7	5.80 LL	
4.61	65	.	6s	Too near crack	6.50 a.	
4.55	80	465	7s	7.8	7.90 LL	
			87 12	Sc 1 3.5 3.4	7.9000 w 7.9 7.9	9.1
			15	2.8 2.7	6.80 LI 6.7 6.9	8.3
			88 2	3.4 3.3	7.90 00 7.9 7.9	9.1
			80	Too near crack ~~3.1~~	~~8.0 7.0~~	~~9.0~~
			86	30 3.2 29 3.1	8.00 00 8.0 8.0	8.9
			90	Sc 2 4.3	9.00 00 9.0 9.0	~~9.0~~
			105	Sc 1 3.2 3.1	8.05 01 8.0 8.1	9.0
			115	3.4 3.3	7.95 L0 7.9 8.0	9.1
			2s	B	4.10 00 4.1 4.1	5.7

MC 16115 Reduce with 16114, 16121

Copied 53'.85

Seq B +89.5

	Sc	Cu.	Magn	Cu	Magn	Cu	Magn	Cu	Magn 8.81
a	5.1	5.22	10.32						
1 = b	5.5	5.14	10.64						
3 = c	6.3	4.95	11.25	5.39	8.89	0.89	8.79	-0.29	~~9.39~~
d	6.5	4.92	11.42	5.44	8.24	1.33	8.13	0.01	8.31
2 = e	7.1	4.76	11.86	5.40	8.80	0.89	8.79	-0.29	8.81
f	7.3	4.72	12.02	.	.	.	.	.	.
g	7.7	4.62	12.32	5.41	8.51	0.85	8.85	-0.22	8.68
h	890 4.33 9.0 8.8		13.23	5.31	9.61	0.55	9.55	.	.
k	9.0	4.30	13.30	5.40	8.60	0.83	8.88	-0.26	8.74
l	7	.	.	5.40	8.80	0.88	8.83	-0.29	8.81

Sequences Near N Pole
Oct ~~29~~ 30, 1919

Sel

Reduce with 16114, 16121

MC 16115

Copied 53; 154

Seq T +89.5

		Sc 1	Sc 2	Cu	Magn
	a		4.1	5.32	9.42
66 =	b		4.5	5.29	9.79
51 =	c		5.1	5.22	10.32
47 =	d		5.5	5.14	10.64
	e		5.7	5.10	10.80
	f		6.1	5.00	11.10
	g		6.5	4.92	11.42
48 =	h		6.7	4.87	11.57
	k		7.1	4.75	11.85
	l		8.1	4.52	12.62
	m		8.5	4.44	12.94
	n		8.9	4.33	13.23
	o		9.40 '' 9.3	4.20 9.5	13.60

Copied 53; 157

Reduce with 16114, 16121

MC 16118

Seq U

a	4.5	5.29	9.79
b	5.4	5.16	10.56
c	5.5	5.14	10.64
d	6.00 '' 6.1	5.02 5.9	11.02
e	6.3	4.95	11.25
f	6.7	4.87	11.57
g	7.3	4.72	12.02
h	7.7	4.62	12.32
k	8.0	4.54	12.54
l	8.5	4.44	12.94
m	9.0	4.30	13.30
n	9.3	4.20	13.50
o	9.7		

Sequences Near N Pole

Oct 30, 1919

Sc V

Reduce with 16114, 16121

MC 16118

Copied 53:166

Seq W

	Sc 1	Sc 2	Cu	Magn
a		4.3	5.31	9.61
b		4.7	5.27	9.97
c		5.0	5.22	10.22
d		5.9	5.05	10.95
e		6.3	4.95	11.25
f		7.5	4.66	12.16
g		7.7	4.62	12.32
h		8.0	4.54	12.54
k		8.1	4.52	12.62
l		8.7	4.39	13.09
m		9.0	4.30	13.30
n		9.5?	4.18	13.68?

Reduce with 16114, 16121

MC 16119

Copied 53:181

Seq S (Delta)

Re-reduce with V on 16114, 16121

a	3.1 3.0		5.42	8.52	7.70 7.7	7.7	0.96	8.66	8.9	–	0.22	8.68
b		4.6	5.27	9.87	9.00 9.0	9.0	0.55	9.55				
c		6.5	4.92	11.42								
d		6.9	4.87	11.77								
e		7.1	4.75	11.85								
f		7.3	4.72	12.02								
g		7.8	4.60	12.40								
h		8.2	4.50	12.70								12.05
k		8.5	4.44	12.94								
l		8.8	4.36	13.16								
m		9.60 9.5	4.14 9.7 ?	13.74?								

Sequences Near N Pole

Oct 30, 1919

Sc N

12 — 15

Take mean with 16114

MC 16121 Pole

	Sc 1	Sc 2	g		w	Pc
1	B		B		B	4.1
4	B		B		B	5.5
5	B		4.1	4.20 ±.1	4.3	5.9
6	1.6 1.5		5.1	5.10 00	5.1	6.7
7	1.8 1.7		5.2	5.20 00	5.2	6.9
8	2.8 2.7		7.0	7.05 01	7.1	8.2
9	3.4 3.3		7.8	7.80 00	7.8	9.0
10	3.6 3.5		8.1	8.10 00	8.1	ns
11		4.3	8.9	8.95 ±.0	9.0	
12		4.6	9.3	9.30 00	9.3	
13		5.1	9.7		7	
14		5.5				
15		6.2				
16		6.5				
17		6.9				
18		7.5				
19		7.9				
20		8.20 ±.1 8.1 8.3				
23		9.5 9.65 9.8 ~~ft~~				
25		9.9 ft.				
26		ns				
2n	2.1 2.0		6.3	6.40 ±.1	6.5	8.0
3n	3.1 3.0		7.5	7.50 00	7.5	9.0
4n	3.4 3.3		7.9	7.95 ±.0	8.0	
5n		4.5	9.5	9.50 00	9.5	
6n		5.1				
7n		5.5				
8n		6.2				

Ser

Sequences Near N Pole
Oct 30, 1919

MC 16121 (cont.)

	Sc1	Sc2		
9n		6.9		
10n		7.8		
11n		8.5		
12n		9.1		
3s	1.1 1.0		4.15 1.0 4.1 4.2	5.9
4s		4.80 1.1 4.7 4.9		
5s		5.9		
6s		6.5		
7s		8.0		
87 12	3.3 3.2		7.95 1.0 7.9 8.0	9.0
15	2.6 2.5		6.9 690 00 6.9	8.3
88 2	3.3 3.2		7.8 785 01 7.9	9.3
80	3.1 3.0		8.0 805 01 8.1	7h
86	2.9 2.8		8.1 810 00 8.1	9.0
90	Sc2 4.2		9.0 ~~7~~ 905 01 9.1 ~~7~~	7
105	Sc1 3.1 3.0		8.0 800 00 8.0	9.1
115	3.4 3.3		8.1 820 21 8.3	9.3

1/15

Sequences Near N Pole

Oct 31, 1919

DeV

9–55

MC 16115 16116} For reducing G on 16114 N on 16114

Take mean with 16116 p.63

MC 16115 Pole

	Sc 1		Sc 2	g-63	Mean	Diff	g		h	P-63	Mean	Diff	pc	P-63	Mean	Diff
1	B			.			B		B	.			4.0	3.9	3.95	0.53
4	B			.			B		B	.			5.5	5.3	5.40	0.59
5	B			.			4.3	4.30 0 6	4.3	4.30	4.30	2.19	5.9	5.9	5.90	0.59
6	1.5	1.6		1.5	1.55	5.56	5.1 p	5.20 1.1	5.3 p	,	5.20	1.91	6.5	6.7	6.60	0.51
7	1.7	1.8		.	1.80	5.51	5.3 p	5.30 0 0	5.3 p	,	5.30	2.01	6.9	7.0	6.95	0.36
8	2.9	3.0		2.6	2.80	5.43	6.9	6.95 1.0	7.0	6.80	6.88	1.35	8.3	8.1	8.20	0.03
9	3.4	3.5		3.2	3.35	5.48	7.9	7.90 0 0	7.9	7.80	7.85	0.98	9.1	9.0	9.05	−0.22
10	3.5	3.6		3.4	3.50	5.52	8.1	8.10 0 0	8.1	8.10	8.10	0.92				
11			4.1	4.2	4.15	5.40	9.0	9.00 0 0	9.0	9.05	9.02	0.53				
12			4.5	4.5	4.50	5.36										
13			5.1	5.2	5.15	5.15										
14			5.5	5.5	5.50	5.15										
15			6.1	6.0	6.05	5.03										
16			6.5	6.5	6.50	4.90										
17			7.0	6.7	6.85	4.78										
18			7.5	7.5	7.50	4.56										
19			7.8	7.9	7.85	4.57										
20			8.2	8.1	8.15	4.58										
23			9.0	9.0	9.00	4.34										
25			9.7	9.8?	9.75?	4.12?										
26			7	.	,											
2 r	1.9	2.0		2.2	2.10	5.77	6.1	6.20 1.1	6.3	6.20	6.20	1.17	7.8	7.8	7.80	0.07
3 r	3.0	3.1		3.0	3.05	3.70	7.5	7.60 1.1	7.7	7.95	7.78	0.97	8.8	8.9	8.85	−0.10
4 r	3.2	3.3		3.3	3.30	5.80	8.0	8.00 0 0	8.0	8.20	8.10	1.00	9.0	.		
5 r			4.3	4.3	4.30	5.61	9.3	9.40 1.1	9.5	,	9.40	0.51				
6 r			5.0	4.9	4.95	5.35										
7 r			5.5	5.5	5.50	5.20										

Dev

Sequences Near N Pole
Oct 31, 1919

MC 16115 (cont.)

	Sc 1	Sc 2	P-64	Mean	Diff	g		h	P-64	Mean	pe	P-64	Mean
8 r		6.3	6.1	6.20	5.00								
9 r		6.7	6.5	6.60	5.10								
10 r		7.7	7.7	7.70	4.65								
11 r		8.3	8.5	8.40	4.57								
12 r		9.1	9.3	9.20	4.28								
2 b	1.0		.	.	.	+p		+p			6.1		
4 s		4.7	4.5	4.60	5.52								
5 s		6.1	5.9	6.00	4.81								
6 s		6.4	6.3	6.35	4.76								
7 s		8.0	8.1	8.05	4.40								
87° 12	3.4 3.3		3.3	3.35		8.0	8.00 00	8.0	8.05	8.02	9.0	9.0	9.00
15	2.4 2.3		2.4	2.40		6.9	6.95 1.0	7.0	6.90	6.92	8.3	8.1	8.20
88° 2	3.2 3.1		3.2	3.20		7.8	7.90 1.1	8.0	7.95	7.92	9.2	9.0	9.10
80	3.2 3.1		3.0	3.10		+p		+p	.	.	~~9.1~~	9.0	9.00
86	2.8 3.0 2.7 2.9		3.0	2.93		+p		+p	8.10	8.10	9.1	9.0	9.05
90		4.1	4.0	4.05		9.0	9.00 00	9.0	9.20	9.10	7	.	.
105	3.2 3.1		3.3	3.25		7.9	7.95 1.0	8.0	7.95	7.95	9.1	8.9	9.00
115	3.4 3.3		3.6	3.50		7.9	8.00 1.1	8.1	8.10	8.05	9.5	9.3?	9.40

Sequences Near N. Pole

Oct 31, 1919

Copied 53:105

Sc V

Reduce with P {16115 16116

MC 16114

Seq. Ig

		Sc 1	Sc 2	Cu.	
	a		5.0	5.23	10.23
53 =	b		5.5	5.14	10.64
59 =	c		5.7	5.10	10.80
	d		5.9	5.04	10.94
	e		6.4	4.92	11.32
	f		6.7	4.83 ~~5.33~~	11.53 ~~12.03~~
	g		7.8	4.62 ~~5.12~~	12.12 ~~12.62~~
	h		Sc f.	.	.
	k		860'' 8.5	4.40 8.7	13.00
	l		9.3	4.24	13.54
	m		7	.	.

Copied 53:133

Seq. II

Reduce with P {16115 16116

	a	5.4	5.15	10.55
80 =	b	6.5	4.90	11.40
74 =	c	6.7	4.83 ~~5.33~~	11.53 ~~12.03~~
	d	7.2	4.70	11.90
	e	760'' 7.7	4.60 7.5	12.20
	f	8.9	4.34	13.24
	g	ns	.	.
	h	905'' 9.0	4.30 9.1	13.35
	k	9.7	4.18	13.88?

Sequences Near N Pole

DeV Oct 31, 1919

Take mean with 1611~~X~~5 p.60

MC 16116 Pole

	Sc 1	Sc 2	Page 60	Mean	g		h	Pg-60	Mean	pc	Pg-60
1	B				B		B			3.9	4.0
4	B				B		B			5.3	5.5
5	B				4.3	4.30 00	4.3	4.30	4.30	5.9	5.9
6	1.5 1.4		1.6	1.55	tp		tp	5.20	5.20	6.7	6.5
7	tp		1.8	1.80	tp		tp	5.30	5.30	7.0	6.9
8	2.6 2.5		3.0		6.7	6.80 L1	6.9	6.95	6.88	8.1	8.3
9	3.2 3.1		3.5		7.8	7.80 00	7.8	7.90	7.85	9.0	9.1
10	3.4 3.3		3.6		8.1	8.10 00	8.1	8.10	8.10		
11		4.2	4.1		9.1	9.05 10	9.0	9.00	9.02		
12		4.5	4.5		9.5		7		9.50		
13		5.2	5.1								
14		5.5	5.5								
15		6.0	6.1								
16		6.5	6.5								
17		6.9	7.0								
18		7.5	7.5								
19		7.9	7.8								
20		8.1	8.2								
23		9.0	9.0								
25		9.8	9.7								
26		7	.								
2 r	2.2 2.1		2.0		6.1	6.20 L1	6.3			7.8	
3 r	3.0 2.9		3.1		7.9 8.0 p	7.95	7.9 8.0 p			8.9	
4 r	3.3 3.2		3.3		8.1	8.20	8.3				
5 r		4.3	4.3		7						
6 r		4.9	5.0								
7 r		5.5	5.5								

Sequences Near N Pole
Oct 31, 1919

ScN

	MC16116 cont	Sc 1	Sc 2	g		h	PC
	8r		6.1				
	9r		6.5				
	10r		7.7				
	11r		8.5				
	12r		9.3				
	2s	B		B		B	6.3
	4s		4.5				
	5s		5.9				
	6s		6.3				
	7s		8.1				
	87° 12	3.3 3.2		8.0	8.05 01	8.1	9.0
	15	2.4 2.3		6.9	6.90 00	6.9	8.1
	88° 2	3.2 3.1		7.9	7.95 .10	80	9.0
Region poor	80	3.0 2.9		t/p	,	t/p	90
Region poor	86	3.0 2.9		8.1/p	8.10	81/p	9.0
	90		4.0	9.1	9.20 .21	9.3	7
	105	3.3 3.2		7.9	7.95 .10	8.0	89
	115	3.6 3.5		81	8.10 00	8.1	9.3?

12:25

Sequences Near N Pole
Nov 1, 1919

Set

11 30 MC 16117 Pole

		Sc 1	Sc 2	Diff.
For reducing	1	B		
G on 16116	4	B		.
N on 16116	5	B		.
R on 16114	6	1.6 1.5		5.51
	7	off pl.		.
	8	2.6 2.5		5.63
	9	3.2 3.1		5.63
	10	3.5 3.4		5.52
	11		4.0	5.55
	12		4.4	5.46
	13		4.8	5.50
	14		5.3	5.35
	15		560 5.5	5.48 I.I 5.7
	16		6.3	5.10
	17		6.5	5.13
	18		7.2	4.86
	19		7.5	4.92
	20		8.0	4.73
	23		9.0	4.34
	25		9.8?	4.07?
	26		7	.

Sequences Near N Pole
Nov 1, 1919

Sc V

MC 16116

Copied 53:105

Seq Y
Reduce with MC16117

		Sc 1	Sc 2	Cu	Magn
	a		4.5	5.49	9.99
~~53~~ 58 =	b		5.1	5.41	10.51
59 =	c		5.60'' 5.7	5.31 5.5	10.91
	d		5.7	5.29	10.99
	e		6.2	5.18	11.38
	f		6.9	5.01	11.91
	g		7.5	4.88	12.35
	h		7.7	4.80	12.50
	k		8.5	4.54	13.04
	l		ns	.	.

Copied 53:133

Seq N
Reduce with MC16117

		Sc 1	Sc 2	Cu	Magn
	a		5.0	5.43	10.43
80 =	b		6.1	5.20	11.30
74 =	c		6.4	5.12	11.52
	d		7.1	4.96	12.06
	e		7.7	4.80	12.50
	f		9.0	4.36	13.36
	g		ns	.	.
	h		ns	.	.
	k		9.5	4.17	13.67

Sc V

Sequences Near N Pole
Nov 1, 1919

Copied Bk 53; 121

MC 16114

Seq K

Reduce with MC16117

	Sc 1	Sc 2	Cu	Magn
a		4.1	5.54	9.64
b		4.5	5.49	9.99
c		5.0	5.43	10.43
d		5.5	5.33	10.83
e		5.6	5.30	10.90
f		6.0	5.22	11.22
g		6.3	5.15	11.45
h		6.8	5.03	11.83
k		7.5	4.85	12.35
l		8.0	4.71	12.71
m		8.60 8.5	L14.52 8.7	13.12
n		9.5	4.17	13.67
o		ns?	,	,

12.00

Sequences Near N Pole
Nov 1, 1919

Seq V
12:30 MC 16118 Pole

		Sc 1	Sc 2	Diff
For reducing	8	2.6 2.5		5.63
G on 16117	9	3.1 3.0		5.73
N on 16117	10	3.4 3.3 3.2 3.1		5.72
K on 16115	11		3.7	585
	12		4.1	5.76
	13		4.6	5.70
	14		5.3	5.35
	15		5.7	5.38
	16		6.20 21 6.1	5.20 6.3
	17		6.7	4.93
	18		7.5	4.56
	19		7.7	4.72
	20		8.3	4.43
	23		9.3	4.04
	25		7	.
	26		ne	

Copied Bk 53:105

Seq G MC 16117

			Cu	
Reduce with MC 16118	a	4.3	5.73	10.03
	53 = b	5.0	5.53	10.53
	59 = c	5.5	5.40	10.90
	d	5.7	5.31	11.01
	e	6.1	5.17	11.27
	f	6.7	4.94	11.64
	g	7.5	4.66	12.16
		7.80	4.55	
	h	7.9	7.7	12.35
	k	8.9	4.19	13.09
	l	7	.	.

Seq. on edge of plate

Sequences Near N Pole
Nov 1, 1919

Dev

MC 16117

Copied Bk 53, 133

Seq N		Sc 1	Sc 2	Cu	Magn
Reduce with MC16118	a		4.9	5.55	10.45
80 =	b		5.9	5.24	11.14
	c		6.3	5.10	11.40
	d		7.1	4.81	11.91
	e		7.7	4.60	12.30
	f		9.0	4.15	13.15
	g		ns	.	.
	h		ns	.	.
	k		ns	.	.
	~~l~~				

MC 16115

Copied Bk 53, 121

Seq K					
Reduce with MC 16118	a		4.1	5.77	9.87
	b		4.5	5.68	10.18
	c		5.1	5.50	10.60
	d		5.3	5.44	10.74
	e		5.3	5.44	10.74
	f		5.9	5.24	11.14
	g		6.3	5.09	11.39
	h		6.9	4.89	11.79
	k		7.5	4.66	12.16
	l		8.0	4.48	12.48
	m		8.9	4.19	13.09
	n		9.5	4.00	13.50
	o		ns	.	.

1:05

Plot 19

Sequences Near N. Pole

Nov 6, 1919

Sc V

11 — ~~12~~ MC 16119 Pole

	Sc 1	Sc 2	Diff.	
8	2.6 2.5		5.63	
9	3.2 3.1		5.63	
10	3.4 3.3		5.62	
11	Off pl		.	
12		3.9	5.96	
13		4.5	5.80	
14		5.1	5.55	
15	Off film		.	
16		6.3	5.10	
17		6.9	4.73	
18		7.5	4.56	
19		7.9	4.52	
20		8.5	4.23	
23		9.5	3.84	
25		n.s.	.	

Copied 53:121

MC 16116

Seq K.

Reduced with MC 16119

On edge of plate.

a		4.0	5.76	9.76
b		4.3	5.72	10.02
c		5.0	5.50	10.50
d		5.3	5.39	10.69
e	Off pl		.	
f	" "		.	
g	" "		.	
h	" "		.	
k		7.7	4.50	12.20
l		8.60 " 6.5	4.17 8.7	12.77
m		9.1	4.00	13.10

Sc V

Sequences Near N Pole
Nov 6, 1919

Copied 53:109

MC 16114

Seq H
Reduce with MC 16119

On edge of plate
Whole seq not on field

	Sc1	Sc2		
a		4.0	576	9.76
b	Off pl		.	
c	Off pl.		.	
d	Off pl.		.	
e	~~Off film~~	6.7	486	11.56
f		7.0	475	11.75
g	W.S	7.3 ~~5.8~~	464	11.94
h		8.00 !! 7.9 ~~8.1~~	440	12.40
k		8.9 ~~f p~~	406	12.96
l		9.8 9.40 ~~f p~~	389 ~~9.8~~	13.19

Copied 53:125

Seq L
Reduce with MC 16119

On edge of fil- reg. poor

a		4.1	574	9.84
b		4.5	566	10.16
c				
d		5.0	550	10.50
e		f p	.	.
f		6.0	512	11.12
g		6.80 !! 6.7	482 ~~6.9~~	11.62
h		8.0?	440	12.40?
k		8.5	422	12.72
l		8.8	410	12.90
m		9.0	4.0~~2~~3	13.0~~2~~3
n	Reg f p		.	

MC 16114

Seq B

a
b
c
d
e
f
g
h
k
l

Plate does not cover Seq B

12.00

Sequences Near N Pole

Scl

Nov 25, 1919

For reducing
a on 16352 p.73
N " 16355 p.74
M on 16356 p.75

10:05	Mc 16354	p.76 Pole				g	h – 16354/16308		Pc
5	B		.	Mean	Diff	B	B		5.3
6	1.3 1.2		1.2	10 1.25	5.86	4.3	4.5	+1	6.5 6.3
7	1.6 1.5		1.4	11 1.50	5.81	+p	+p	+2	6.5 7.3
8	2.3 2.2		2.2	10 2.25	5.98	6.1	6.3	+1	ws ~~8.2~~
9	2.8 2.7		2.6	11 2.70	6.13	7.1	7.1	+2	8.1
10	3.1 3.0		3.0	10 3.05	5.97	7.3	7.5	+1	8.5
11	3.6 3.5 3.65 01	3.7	3.5	07 08 3.58	5.97	8.0	8.0	+1	9.0
12		4.1	3.95	08 07 4.02	5.84	8.3	8.3	+1	
13		4.7	4.7	00 4.70	5.60	9.0	8.9	0	
14		5.0	5.0	00 5.00	5.65			0	
15		5.6	5.5	01 5.55	5.53			+1	
16		5.9	5.9	00 5.90	5.50			0	
17		6.1	6.1	00 6.10	5.53			0	
18		6.8	6.7	01 6.75	5.31			+1	
19		7.3	7.3	00 7.30	5.12			0	
20		7.7	7.5	11 7.60	5.13			+2	
23		8.3	8.3	00 8.30	5.04			0	
25		9.1	9.0	10 9.05	4.82			+1	
26		9.7	9.8	10 9.75	4.58			−1	
21		7.9	7.8	10 7.85	5.11			+1	
22		8.1	8.1	00 8.10	5.09			0	
24		8.5	8.5	00 8.50	5.14			0	
	Meandiff. 358-354 Red. 6.0-9.0		−3/5 −0.06					15−1 21 +0.07	

The scale of Plates 16352 and 16358 is practically the same. The correction for the latter is about +0.07

Sequences Near N Pole
Nov 25, 1919

Sc V

Seq D MC 16354

Reduce with Q on 16355 p.74

Copied 53;93

Re-reduced 53;107 MC16355-9

May 1920

	Sc1	Sc2	Cu	Magn	Cu	Magn	Cu	Magn	Cu	Mag
a		4.0	5.80	9.80	.	.	.	.	5.61	9.61
b		4.6	5.71	10.31	5.56	10.16	5.54	10.14	~~5.61~~	
c		5.7	5.52	11.22	5.34	11.04	5.32	11.02		
d		5.9	5.50	11.40	5.30	11.20	5.25	11.15		
e		w.s ~~4.0~~ 6.1	5.44	11.54	5.24	11.34	5.18	11.28		
f		6.7	5.32	12.02	5.07	11.77	4.98	11.68		
g		7.3	5.20	12.50	4.90	12.20	4.82	12.12		
h		7.7	5.12	12.82	4.80	12.50	4.74	12.44		
k		8.20±.1 8.1 8.3	5.05	13.25	4.67	12.87	4.69	12.89	4.70	12.90
l		9.1	4.83	13.93	4.45	13.55	4.63	13.73	4.78	13.88
m		9.5 E	4.70	14.20	4.38	13.88	4.61	14.11	4.81	14.31
n		9.7 E	4.62	14	4.32	14.02	4.61	14.31	4.82	14.52
l' ~~x~~		9.0			4.48	13.48	4.63	13.63	4.77	13.77

Copied 53;93

Copied 53;81

MC 16352

Seq A

Reduce with P on 16354,58 p.72

	Sc2	Cu	Magn
a	5.1	5.63	10.73
b	5.3	5.60	10.90
c	5.5	5.56	11.06
d	5.7	5.52	11.22
e	6.3	5.40	11.70
f	6.60±.1 6.5 6.7	5.33	11.93
g	6.60 ±.1 6.5 6.7	5.33	11.93
h	7.7	5.12	12.82
k	7.9	5.10	13.00
l	8.1	5.07	13.17
m	9.0	4.85	13.85
n	ms	.	.

Sequences Near N Pole

Nov 25 1919

Sc V

MC 16355

Seq N

Reduce with P. on 16354.58 p. 72

80 =

74 =

		Sc 1	Sc 2	Cu	Magn	Copied 53:133	Diff 53:135 (Feb.26)	May, 1920 53:134
	a		5.0	5.63	10.63		5.49	
	b		5.5	5.55	11.05		5.58	
	c		6.0	5.46	11.46		5.41	
	d		6.7	5.31	12.01		5.20	
	e		7.5	5.17	12.67		4.87	4.87
g	~~f~~		8.1	5.07	13.17		90 4.5~~7~~	4.97
k'	~~g~~		8.7	4.94	13.64		5.03 ~~4.30~~	5.14
	h		8.3	5.03	13.33		5.09	5.13
	k		8.7	4.94	13.64		4.91	4.96
	l		9.8?	4.57	14.37?		4.29?	4.34?

Seq G

For reducing
D on 16354 p. 73
D on 16358 p. 74

Plot magn
Book 53, 107

	Sc 1	Sc 2	Diff	Cu.	Magn.	Diff 53:107 (Feb.27)	53.106
a		4.65 4.8 4.5	5.36	~~5.56~~	~~10.21~~	5.44	Plot 51
b		4.9	5.58	~~5.51~~	~~11.09~~	5.58	
c		5.4	5.48	~~5.40~~	~~10.80~~	5.52	
d		5.7	5.28			5.34	
e		6.0	5.27			5.24	
f		6.5	5.14			5.06	
g		7.3	4.77			4.74	4.74
h		7.7	4.65			4.70	4.69
k		8.15 8.0 8.3	4.79			4.69	7 4.55
l		8.8	4.54			5 4.~~8~~6	4.61
m		9.1	4.41			4.80	4.92
n		9.8?	,			4.56	4.81?

Sequences Near N Pole
Nov 25, 1919

Copied 53:129

Sc V

MC 16356

Seq M

Reduce with
Pon 16354, 58
p. 72

	Sc 1	Sc 2	Cu	Magn
a		4.0	5.80	9.80
b		4.4	5.74	10.14
c		5.5	5.55	11.05
d		5.7	5.52	11.22
e		5.9	5.49	11.39
f		6.1	5.44	11.54
g		6.5	5.35	11.85
h		7.0	5.24	12.24
k		7.3	5.20	12.50
l		7.7	5.12	12.82
m		8.20 LI 8.1 8.3	5.05	13.25
n		8.7	4.94	13.64
o		9.35 21 9.2 9.5	4.73	14.08

Sequences Near N Pole
Nov 25, 1919

Se V

MC 16358 Pole Copied page 72

	Sc 1		Sc 2
5	B		
6	1.2 1.1		
7	1.4 1.3		
8	2.2 2.1		
9	2.6 2.5		
10	3.0 2.9		
11	3.5 3.4		
12	3.9 3.8	3.95 4.0	4.0
13			4.7
14			5.0
15			5.5
16			5.9
17			6.1
18			6.7
19			7.3
20			7.5
21			7.8
22			8.1
23			8.3
24			8.5
25			9.0
26			9.8

Sep 72

Sequences Near N Pole

Sc V

Nov 25, 1919

Plt 51

Mc 16358

Copied 53:93

Re-reduced

May 1920

Seq D

Reduce with Seq G on 16355 (p 74)

	Sc1	Sc2	Cu	Magn	Cu	Magn	Cu	Magn.
a		3.9	.		.	.	e 5.52	e 9.42
b		4.5	5.59	10.09	5.54	10.04	:	
c		5.5	5.38	10.88	5.38	10.88		
d		5.7	5.34	11.04	5.32	11.02		
e	w.S	6.3 ~~4.0~~	5.19	11.49	5.12	11.42		
f		6.7	5.07	11.77	4.98	11.68		
g		7.4	4.88	12.28	4.80	12.20		
h		7.7	4.80	12.50	4.74	12.44	4.74	12.41
K		8.1	4.69	12.79	4.70	12.80	4.70	12.80
l		8.9	4.51	13.41	4.64	13.54	4.74	13.64
m		9.3	4.42	13.72	4.62	13.92	4.78	14.08
n		n.S	.	.	.	.	.	.
l'		9.0	4.48	13.48	4.63	13.63	4.76	13.76

Copied 53:93 ✓

12:10

10h15

Sc V

Sequences Near N Pole

Dec 1, 1919

For reducing Seq 2 on 16355 p.79
" " " O .. 16356 p.80

Plot Magn Bk 53, 155

Take mean with
I on 16358 p.81

MC 16354

Seq I

Plot 51

May 1920 53:154

		Sc 1	Sc 2		MC 16358 p.81 358-354		Mean	Diff 53:155	Diff 53:155	16354 -16358	
	a		3.9		39		3.90	586	5.80	0	
66 =	b	ws	4.5 ~~6.5~~ 4.40 4.3		43		435	570	5.68	+1	
51 =	c		4.7		460		465	573	5.69	+1	
47 =	d		5.1		50		505	550	5.54	+1	
	e		5.4		53		535	544	5.49	+1	
	f		5.5 5.60	5.7	55		555	564	5.59	+1	
	g		6.2		62	00	6.20	530	5.32	0	
48 =	h		6.5		6.5	00	6.50	521	5.21	0	
	k		7.1		6.90	-2	700	512	5.20	+2	
	l		7.7		7.5	-2	760	488	5.02	+2	5.$\overset{1}{0}$0
	m		7.9		8.0	+1	795	496	5.07	-1	5.0$\overset{3}{8}$
	n		8.3		8.2	-1	825	494	5.07	+1	5.$\overset{10}{05}$
	o		8.9		87	-2	880	479	4.90	+2	4.91
	p		9 9.5:		9.7		9.60 2:		4.46	-2	4.49 2:

Mean $\frac{1-9}{7}$ -09

$\frac{12-3}{14}$ +0.06

Take mean with p.81

Seq G

For reducing
Seq. C on 16352 p.79
Seq. L on 16356 p.80

Plot magn Bk 53, 107

Plot 51

			MC 16358 p.81		Mean	Diff	Diff 53:107		53:106 Diff
a	4.3		44		4.35	566	5.74	-1	
b	4.7		4.8		4.75	573	5.73	-1	
c	5.3		5.3		5.30	558	5.62	0	
d	5.5		5.5		5.50	548	5.54	0	
e	6.1	-2	5.9	+1	6.00	527	5.24	+2	
f	6.3	-1	6.2	+1	6.25	539	5.31	+1	
g	6.9	0	69	0	6.90	517	5.14	0	5.14
h	7.5	-2	7.3	+1	740	495	5.00	+2	4.$\overset{9}{8}$9
k	7.9	0	7.9	0	7.90	404	4.94	0	5.00
l	8.3	+2	85	-1	8.40	494	4.96	-2	5.01
m	8.7	+4	91		890	461	5.00	-4	5.12
n	7	60	7 $\frac{6-5}{7}$ 40						

Sequences Near N Pole
Dec 1, 1919

Sc V

MC 16352

Seq C

Reduce with Seq G on 16354, 58 p.78

Copied 53:89

	Sc 1	Sc 2	Cu	Magn	Cu	Plt 51 Re-red Magn	May 1920 Cu	 magn.
a		4.1	5.72	9.82	.	.	5.80 e	9.90 e
b		4.9	5.62	10.52	5.68	10.58		
c		5.3	5.54	10.84	5.58	10.88		
d		5.5	5.50	11.00	5.53	11.03		
e		6.1	5.37	11.47	5.35	11.45		
f		6.3	5.32	11.62	5.30	11.60		
g		6.5	5.28	11.78	5.23	11.73		
h		6.9	5.18	12.08	5.12	12.02		
k		7.7	5.00	12.70	4.96	12.66	5.01	12.71
l		7.9	4.94	12.84	4.94	12.84	5.00	12.90
m		8.5	4.78	13.28	4.96	13.46	5.03	13.53
n		9.0	4.67	13.67	5.00	14.00	5.12	~~14.12~~
o		7						

Copied ✓ 53:89

Copied 53:141

MC 16355

Seq G

Reduce with Seq. F on 16354 p.78

	Sc	Cu	Magn	Cu	Magn		
a	4.0	5.79	9.77	5.77	9.77		
b	4.9	5.58	10.48	5.64	10.54		
c	5.1	5.54	10.64	5.60	10.70		
d	5.7	5.41	11.11	5.49	11.19		
e	5.9	5.36	11.26	5.45	11.35		
f	6.2	5.29	11.49	5.41	11.61		
g	6.5	5.22	11.72	5.32	11.82		
h	7.0	5.12	12.12	5.23	12.23		
k	7.7	4.98	12.68	5.07	12.77	5.10	12.80
l	7.9	4.94	12.84	5.04	12.94	5.08	12.98
m	8.2 8.3 8.2	5.01 4.88	13.13	4.96	13.21	5.03	13.28
n	8.8	4.79	13.59	4.82	13.62	4.98	13.78
o	9.0	4.76	13.76	4.77	13.77	4.94	13.94

Copied ✓ 53:205

Sequences Near N Pole

Dec 1, 1919

Sc V

MC 16356

Seq O

Reduce with Seq. Y on 16354,58 p.78

Copied 53:137

Copied ✓ 53:137

	Sc 1	Sc 2	Cu.	Magn	Cu.	Re-reduced Magn	May 1920 cu	magn.
a		4.1	5.77	9.87	5.76	9.86		
b		4.6	5.66	10.26	5.69	10.29		
c		5.0	5.56	10.56	5.62	10.62		
d		5.20!! 5.3 5.1	5.51	10.71	5.59	10.79		
e		5.9	5.36	11.26	5.45	11.35		
f		5.8	5.39	11.19	5.47	11.27		
g		5.5	5.45	10.95	5.52	11.02		
h		6.0	5.33	11.33	5.43	11.43		
k		6.5	5.22	11.72	5.32	11.82		
l		7.1	5.10	12.20	5.24	12.34		
m		7.5	5.02	12.52	5.12	12.62		
n		7.7	4.99	12.69	5.08	12.78	5.10	12.80
o		8.0	4.93	12.93	5.01	13.01	5.07	13.07
p		8.9	4.77	13.67	4.79	13.69	4.97	13.87
q		9.1?	4.74	13.84?	4.74	13.84?	4.93	14.03?

Copied 61:125

Seq # L

Reduce with Seq. L on 16354,58 p.78

Copied ✓ 53:125

				Cu ~~53:~~	Rereduced Magn		
a	4.0					5 ~~9~~.81 e	9.81 e
b	4.3	5.71	10.01	5.80	10.10		
c				.	.		
d	4.9	5.62	10.52	5.68	10.58		
e	5.10 5.2 50	5.58	6 10.~~7~~8	5.63	10.73		
f	5.9	5.42	11.32	5.42	11.32		
g	6.30 6.5 61	5.32	11.62	5.29	11.59		
h	6.9	5.18	12.08	5.12	12.02		
k	7.9	4.94	12.84	4.94	12.84	5.00	12.90
l	8.0	4.91	12.91	4.94	12.94	5.00	13.00
m	8.3	4.83	13.13	4.95	13.25	5.0~~0~~	13.32
n	8.5 90	4.78	13.38	4.96	13.46	5.03	~~13.53~~
						5.12	14.12

Sequences Near N Pole
Dec 1, 1919

DeV

MC 16358

		Sc 1	Sc 2	See p. 78
Seq I				
Copy on page 78 and later mean	a		3.9	
	b		4.3	
	c		4.60!! 4.7	4.5
	d		5.0	
	e		5.3	
	f		5.5	
	g		6.2	
	h		6.5	
	k		6.90!! 7.0	6.8
	l		7.5	
	m		8.0	
	n		8.2	
	o		8.7	
	p		9.7	
Seq Y				
Copy on page 78 and later mean	a		4.4	
	b		4.8	
	c		5.3	
	d		5.5	
	e		5.9	
	f		6.2	
	g		6.9	
	h		7.3	
	k		7.9	
	l		8.5	
	m		9.1	
	n		F	

12:30

9:50
DcV

Sequences Near N. Pole

Dec 2, 1919

Copied 53:85

Seq B

MC 16354

Reduce with Seq. P on 16355 page 84

	Sc 1	Sc 2	Cu	
a		4.7	5.76	10.46
b		5.1	5.71	10.81
c		6.0	5.54	11.54
d		5.8	5.59	11.39
e		6.5	5.42	11.92
f		6.8	5.36	12.16
g		7.3	5.24	12.54
h	Too close to another obj.			
k		8.7	4.94	13.64
l		9.0	4.85	13.85
m		9.8?	4.64	14.44?

Copied 53:141

Seq D

Reduce with Seq. V on 16352 p.83.

Copied 53:205

	Sc 2	Cu.	Magn	Cu	Magn
a	3.9	5.60	9.50	600	9.90
b	4.5	5.62	10.12	5.76	10.26
c	5.1	5.61	10.71	5.70	10.80
d	5.5	5.58	11.18	5.65	11.15
e	5.60 L1 5.5 5.7	5.57	11.17	5.63	11.23
f	5.90 L1 5.8 6.0	5.54	11.44	5.59	11.49
g	6.80 L1 6.9 6.7	5.34	12.14	5.43	12.23
h	7.1	5.28	12.38	5.34	12.44
k	7.5	5.15	12.65	5.22	12.72
l	8.0	4.92	12.92	5.00	13.00
m	8.65 2L 8.8 8.5	4.60	13.25	4.71	13.36
n	8.9	4.45	13.35	4.62	13.52
o	9.1	4.34	13.44	4.53	13.63

Sequences Near N Pole
Dec 2, 1919

Sc V

S

Mc 16352

Seq V

Plot 43

For reducing
Seq. 2 on
16354 p 82
16358 p.87

Seq. 0 on 16355
p.85

Plot magn
Book 53, p.163

	Sc1	Sc2	Magn 53:163 Diff	Diff Magn's 1920 53:162
a		4.0	5.71	5.87
b		4.9	5.48	5.49 ~~4.91~~
c		5.1	5.60	5.59
d		5.5	5.71	5.75
e		5.9	5.56	5.55
f		6.5	5.51	5.56
g		7.0	5.20	5.25
h		7.40 !! 7.5 7.3	5.13	5.16
k		7.5	5.23	5.35
l		7.9	5.08	5.19
m		8.9	4.37	4.54
n		9.5	4.19	4.35
o		9.8?	3.95	4.46

Sequences Near N Pole

DeV

Dec 2, 1919

Mc 16355 Pole

For reducing
Seq. B on
16354, p. 82
16358, p. 86

Seq. N on
16356, p 86

	Sc 1	Sc 2	Diff
8	2.4 2.3		5.83
9	3.0 2.9		5.83
10	3.1 3.0		5.92
11	3.6 3.5		5.95
12		4.0	5.86
13		4.5	5.80
14		4.9	5.75
15		5.5	5.58
16		5.7	5.70
17		6.1	5.53
18		6.7	5.36
19		7.2	5.22
20		7.5	5.23
21		7.7	5.26
22		8.0	5.19
23		8.3	5.04
24		8.7	4.94
25		9.0	4.87
26		9.7	4.63

Sequences Near N Pole
Dec 2, 1919

Se V

Mc 1635 5.5

Seq. V

Reduce with Seq. V on 16352 p. 83

	Sc 1	Sc 2	Cw.	Magn. Copied 53:137	Cw.	Magn. Copied 53:137
a		4.3	562	9.92	5.78	10.08
b		4.5	5.62	10.12	5.76	10.26
c		5.0	5.61	10.61	5.70	10.70
d		5.1	5.61	10.71	5.70	10.80
e		5.8	5.55	11.35	5.61	11.41
f		5.6	5.57	11.17	5.64	11.24
g		5.7	5.56	11.26	5.62	11.32
h		6.0	5.52	11.52	5.56	11.56
k		6.5	5.42	11.92	5.49	11.99
l		7.0	5.30	12.30	5.38	12.38
m		7.3	5.22	12.52	5.29	12.59
n		7.5	5.15	12.65	5.22	12.72
o		7.9	4.97	12.87	5.05	12.95
p		8.9	4.44	13.34	4.62	13.52
q		7.9	.	.		

Sc V

Sequences Near N Pole
Dec 2, 1919

Copied 53; -133

MC 16356

Seq N

Reduce with Seq. P on 16355, p 84

		Sc 1	Sc 2	Cu	
	a		4.3 ~~4.5~~	82 5.78	12 10.88
	b		5.20 ±.1 5.1 5.3	5.69	10.89
	c		6.0	5.53	11.53
	d		6.5	5.42	11.92
	e		7.4	5.23	12.63
~~g~~	~~f~~		7.9	5.11	13.01
~~h~~	~~g~~		8.1	5.07	13.17
	h		8.3	5.02	13.32
	k		8.9	4.89	13.79
	l		9.7	4.68	14.38
	k'		9.0?	4.86	13.86?

Copied 53; 85

MC 16358

Seq B

Reduce with Seq. P on 16355, p.84

a	4.0	5.86	9.86
b	5.0	5.71	10.71
c	6.1	5.52	11.62
d	5.5	5.63	11.13
e	6.7	5.38	12.08
f	6.9	5.33	12.23
g	7.3	5.25	12.55
h	8.1	5.07	13.17
k	8.7	4.93	13.63
l	9.0	4.86	13.86
m	9.8?	4.64	14.44?

Sequences Near N Pole
Dec 2, 1919

Sc V

MC 16358

Seq Q

Reduce with Seqs V on 16352, p.83

	Sc 1	Sc 2	Cu	Magn Copied 53:141	Cu	magn Copied 53:205
a		4.0	5.60	9.60	5.80	9.80
b		4.3	5.62	9.92	5.78	10.08
c		5.1	5.61	10.71	5.70	10.80
d		5.5	5.58	11.08	5.65	11.15
e		5.7	5.56	11.26	5.62	11.32
f		5.9	5.54	11.44	5.59	11.49
g		6.60 65 6.7	5.39	12.99	5.47	12.07
h		7.0	5.30	12.30	5.38	12.38
k		7.5	5.15	12.65	5.22	12.72
l		8.0	4.92	12.92	5.00	13.00
m		8.9	4.44	13.34	4.62	13.52
n		9.0	4.39	13.39	4.56	13.56
o		9.0	4.39	13.39	4.56	13.56
p		9.3	4.23	13.53	4.45	13.75
q		7.8?	3.94	13.74?	4.30	14.10?

12:10

11 —

Se V

Sequences Near N Pole

Dec 3, 1919

MC 16354 + 58

Plt 54

		Sc 1	Sc 2		MC 16358 p. 91 35 8 354	Mean	Diff 53:135	Magn	Curve Seq B on 16352 Plt 54	Copied B 53:203 Magn	May 1920 134 53:2[illegible] on mag
Take mean with MC 16358, page 91 Seq N For reducing	a		4.80 !1 4.7 4.9	-1	4.7	4.75	4 5.70	10.45	5.86	10.59	
Seq B	b		5.7		5.5	5.60	8 5.49	11.09	5.62	11.22	
on 16352, p. 89	c		6.0	+1	6.1	6.05	6 5.37	11.42	5 5.50	11.55	
Seq M on 16355, p. 90	d		6.5	0	6.5	6.50	0 5.42	11.92	5.40 ~~4.90~~	11.90	
	e		7.5	-2	7.3	7.40	7 4.99	12.39	5.15	12.58	
Plt magn. Book 53, page 135	f		8.0	-2	7.8	7.90	7 4.79	12.69	5.05	12.95	#
	g		8.1	-2	7.9	8.00	0 5.02	13.02	5.01	13.01	4.97
	h		8.5	-2	8.3	8.40	499 5.01	13.41	4.91	13.31	4.93
	K		9.0	-1	8.9	8.95	6 4.68	13.63	4.77	13.72	4.66
	k'		n.s.		n.s.						
	l		9.7		9.5	9.60	4.49	14.09	4.58	14.18	4.44

$-8/7 = -1.1$

		Sc 2			Mean	Diff.	Diff-Magn 1920 53:122 Plt 44
Seq K Take mean with MC 16358 page 91	a	3.9		3.9	3.90	5.94	5.92
	b	4.3		4.2	4.25	5.94	5.85
For reducing	c	4.9		4.7	4.80	5.66	5.61
Seq. D on 16352, p. 89	d	5.4		5.3	5.35	5.42	40 5.~~35~~
Seq L on 16355, p. 90	e	5.1		5.0	5.05	5.73	5.69
	f	5.5		5.5	5.50	5.63	5.64
Plt magn.	g	5.8	-1	5.7	5.75	5.67	5.58
Book 53, p. 123	h	6.1	0	6.1	6.10	5.64	5.54
	K	6.8	-1	6.7	6.75	5.33	5.29
	l	7.2	+1	7.3	7.25	5.32	27 5.~~32~~
	m	7.9		Sup.	7.90	4.97	4.94 ~~5.47~~
	n	8.3	+2	8.5	8.40	4.93	4.97 ~~5.01~~
	o	9.0	-1	8.9	8.95	4.61	4.95
	p	9.40 !1 9.3 9.5		9.5	9.45		5.36

$\frac{3-3}{6} = 00$

Sequences Near N Pole
Dec 3, 1919

Dav

MC 16352

Seq B

Reduce with Seq N on 16354, 58 p.88

In reducing Seq M on page 90

	Sc 1	Sc 2	Cu	Magn	Plt 54 Diff 53:87	Diff 53.86
a		4.3	5.81	10.11	6.05 60'	6.01
b		5.1	5.71	10.81	68 5.69	5.68
c		5.90 ±1 5.8 6.0	5.56	11.46	44 5.43	5.44
d		5.7	5.60	11.30	57 5.65	5.57
e		6.5	5.43	11.93	42 5.39	5.42
f		6.7 w.s ~~7.0~~	5.39	12.09	34 5.37	5.34
g		7.1	5.30	12.40	32 5.37	5.32
h		8.1	5.06	13.16	07 5.12	5.07
k		8.8	4.91	13.71	68 4.62	4.68
l		9.1	4.83	13.93	73 4.69	4.73
m		9.8	4.64	14.44	64 4.52	4.64

Copied 53:93

Copied 53:93

Seq D

Reduce with Seq. K on 16354, 58 p.88

	Sc 2	Cu.	Magn	Cu	Magn
a	4.0	5.93	9.93	5.86	9.86
b	4.90 ±1 5.0 4.8	5.85	10.75	5.71	10.61
c	5.5	5.68	11.18	5.59	11.09
d	5.60 ±1 5.7 5.5	5.65	11.25	56 5.~~48~~	11.16
e	6.1	5.54	11.64	5.48	11.58
f	6.7	5.41	12.11	5.34	12.04
g	7.2	5.26	12.46	5.19	12.39
h	7.7	5.10	12.80	5.05	12.75
k	8.1	4.96	13.06	4.99	13.09
l	8.8	4.71	13.51	4.91	13.71
m	9.1	4.64	13.74	4.90	14.00
n	9.5 E	4.54	14.04	4.90	14.40
o	8.9	4.69	13.59	4.90	13.80

Sequences Near N [illegible]

Dec 3, 1919

Sc V

MC 16355

Copied 53:129 ✓ Plt 54 N

Copied ✓ 53:129 Plt 54

May 1920

Seq M

Reduce with Seq N on 16354.58 p.88

B on 16355

	Sc 1	Sc 2	~~Cu~~	~~Magn~~	(N) Cu	Magn	(B) Cu	Magn	Cu	Magn
a		4.1	~~5.92~~		.	. 5.72 e 9.82 e	6.04	10.14	✓	
b		4.7			5.65	10.35 ✓	5.88	10.58	✓	
c		5.5			5.51	11.01 ✓	5.64	11.14	✓	
d		5.9			5.43	11.33 ✓	5.54	11.44	✓	
e		6.1			5.39	11.49 ✓	5.50	11.60	✓	
f		6.3			5.36	11.66 ✓	5.45	11.75	✓	
g		6.5			5.32	11.82 ✓	5.40	11.90	✓	
h		7.2			5.17	12.37 ✓	5.22	12.42	✓	
k		7.7			5.04	12.74 ✓	5.10	12.80	✓	
l		8.0			4.98	12.98 ✓	5.02	13.02	✓	
m		8.3			4.90	13.20 ✓	4.94	13.24	4.90	13.24
n		8.9			4.72	13.62 ✓	4.77	13.67	4.72	13.67
o		9.5			4.52	14.02 ✓	4.59	14.09	4.59	14.04

Copied 53:125

Seq L

Reduce with Seq K on 16354.58 p.88

Copied 53:125

	Sc 2	Cu	Magn	Cu	Magn
a	4.0	5.92	9.92	5.86	9.86
b	4.5	5.85	10.35	5.79	10.29
c	.	.	.	.	.
d	5.0	5.76	10.76	5.69	10.69
e	5.2	5.73	10.93	5.64	10.84
f	5.7	5.64	11.34	5.56	11.26
g	6.5	5.46	11.96	5.40	11.90
h	6.7	5.41	12.11	5.34	12.04
K	7.5	5.17	12.67	5.10	12.60
l	7.9	5.03	12.93	5.02	12.92
m	8.1	4.95	13.05	4.97	13.09
n	8.3	4.99	13.29	4.95	13.25
o	9.0	4.65	13.65	4.90	13.90
p	9.1	4.64	13.74	4.90	14.00?

Sequences Near N Pole
Dec 3, 1919

Se V

Seq N MC16358

Copy on page 88 and take mean

	Sc 1	Sc 2
a		4.7
b		5.5
c		6.1
d		6.5
e		7.3
f		7.8
g		7.9
h		8.3
k		8.9
k'		—
l		9.5

Seq K

Copy on page 88 and take mean

a	3.9
b	4.2
c	4.7
d	5.3
e	5.0
f	5.5
g	5.7
h	6.1
k	6.7
l	7.3
m	Sup
n	8.5
o	8.9
p	9.5

1.25

Sequences Near N Pole

Dec 11, 1919

ScY

9 - 50 MC 16412 Pole

For reducing
β on 16413
δ on 16414

	Sc1 B	So2	MC16415 h94	Mean	Diff	g B		h B Diff	h94	Mean	Pc	h94	Mean	Diff
5											5.1	5.3	5.20	1.29
6	1.1 1.0		1.1	1.10	6.01	4.7	4.80 11	4.9 +	4.95	4.88	5.9	5.9	5.90	1.21
7	1.3 1.2		1.2	1.25	6.06	5.0	5.00 00	5.0	5.05	5.02	6.2 -1	6.1	6.15	1.16
8	2.3 2.2		2.3	2.30	5.93	6.1	6.10 00	6.1 0	6.10	6.10	7.3 -1	7.2	7.25	0.98
9	2.9 2.8		2.8	2.85	5.98	6.9	6.98 10	7.0 -1	6.88	6.90	8.00 11 8.1 7.9 0	8.0	8.00	0.83
10	3.1 3.0		3.0	3.05	5.97	7.3	7.30 00	7.3 -1	7.20	7.25	8.5 -2	8.3	8.40	0.62
11	3.6 3.5		3.4	3.50	6.05	8.0	8.05 01	8.1 -1	7.98	7.98	9.0 0	9.0	9.00	0.55
12	4.0 3.9 3.95 01	3.9 -1	3.85	3.90	5.96	8.3	8.30 00	8.3 0	8.30	8.30				
13		4.3 0	4.3	4.30	6.00	9.0	9.00 00	9.0 0	9.00	9.00	-4/5 = -08			
14		4.7	4.7	4.70	5.95	9.3	9.40 11	9.5	9.50	9.45				
15		5.3	5.2	5.25	5.83					Diff				
16		5.7	5.5	5.60	5.80				-3/6 = -05	2.23				
17		6.1 -1	6.0	6.05	5.58					2.29				
18		6.7 0	6.7	6.70	5.36					2.13				
19		7.2 -1	7.1	7.15	5.27					1.93				
20		7.5 0	7.5	7.50	5.23					1.77				
21		7.8 -1	7.7	7.75	5.21					1.57				
22		8.1 -1	8.0	8.05	5.14					1.56				
23		8.4 -1	8.3	8.35	4.99					1.30				
24		8.7 0	8.7	8.70	4.94					1.20				
25		9.0 0	9.0	9.00	4.87									
26		9.8	9.7	9.75	4.58									

-5/9 = -06

Dc V

Sequences Near N Pole
Dec 11, 1919

MC 16413

Seq β

Reduce with Seq P on 16412, 16415

Copied 53:173

	Sc 1	Sc 2	Cu.	Magni	g			h Cu		PC	Cu.	
a	2.3 2.2		5.99	8.29	6.7	6.80 L!	6.9	1.92	8.72	8.0	0.80	8.80
b	2.5 2.4	2.7 2.6	5.99	8.59	7.1	7.10 00	7.1	1.84	8.94	8.3	0.72	9.02
c	3.4 3.3		5.99	9.39	8.0	8.00 00	8.0	1.58	9.58	9.3	0.42	9.72
d	4.0 3.9	4.00 00 4.0	5.99	9.99	8.5	8.50 00	8.5	1.46	9.96	9.8?	0.28	10.08?
e		4.5	5.97	10.47	9.0	8.95 0L	8.9	1.34	10.29			
f		5.00 L! 5.1 4.9	5.89	10.89								
g		5.1	5.88	10.98								
h		6.0	5.62	11.62								
k		6.40 L! 6.3 6.5	5.52	11.92								
l		7.5	5.22	12.72								
m		7.7	5.15	12.88								
n		Sup										

MC 16414

Seq δ

Reduce with Seq P on 16412, 15

Copied 53:181

	Sc 1	Sc 2	Cu.	Magni	g			h Cu		PC	Cu.	
a	2.2 2.1	2.4 2.3	5.99	8.29	6.9	6.90 00	6.9	1.90	8.80	8.0	0.80	8.80
b		4.0	5.99	9.99	8.5	8.50 00	8.5	1.46	9.96	Sc ?.		
c		5.95 0L 6.0 5.9	5.63	11.58								
d		6.2	5.56	11.76								
e		6.3	5.54	11.84								
f		6.6	5.50	12.00								
g		6.9	5.39	12.29								
h		7.1	5.32	12.42								
k		7.5	5.22	12.72								
l		7.8	5.12	12.92								
m		8.40 L! 8.3 8.5	4.96	13.36								
n		9.1	4.80	13.90								
o		9.5	4.70	14.20								
			4.62	14.42								

Sequences Near N Pole
Dec 11, 1919

Sc V

MC 16415 Pole

	Sc 1		Sc 2	g		h	PC
5	B			B		B	5.3
6	1.1 1.0			5.0	4.95 01	4.9	5.9
7	1.2 1.1			5.0	5.05 01	5.1	6.1
8	2.3 2.2			6.1	6.10 00	6.1	7.2
9	2.8 2.7			6.8	6.85 01	6.9	8.0
10	3.0 2.9			7.2	7.20 00	7.2	8.3
11	3.4 3.3			7.9	7.95 10	8.0	9.0
12	3.8 3.7	3.85 01	3.9	8.3	8.30 00	8.3	
13			4.3	9.0	9.00 00	9.0	
14			4.7	9.5	9.50	fv	
15			5.2				
16			5.5				
17			6.0				
18			6.7				
19			7.1				
20			7.5				
21			7.7				
22			8.0				
23			8.3				
24			8.7				
25			9.0				
26			9.7				

12.50

Copied p. 92.

Plot 21
" 51

Sequences Near N. Pole

Dec 13, 1919

Sc V
11:45

MC 16412

Seq. J

		Sc 1	Sc 2	Sept 99		Mean	MC 16415 Magn B53:155 Diff	{16412 16415 Diff B 53:155 Feb. 27
Take mean with 16415,	a		3.8	3.8		3.80	5.96	5.90
p. 99	b		4.1	4.0		4.05	6.00	5.98
For reducing	c		4.3	4.3		4.30	6.08	6.04
Seq. L	d		4.7	4.8		4.75	5.80	5.84
on 16413, page 97	e		5.2	5.1		5.15	5.64	5.69
Plot magn.	f		5.5	5.5		5.50	5.69	5.64
Bk 53, p 155	g		5.90 L! 5.8 6.0	6.0		5.95	5.55	5.57
	h		6.20 L! 6.1 6.3	6.5	+1	6.35	5.36	5.36
	k		6.7	6.9	+2	6.80	5.32	5.40
	l		7.5	7.5	0	7.50	4.98	5.12
	m		7.9	8.0	+1	7.95	4.96	5.07
	n		8.60 L! 8.7 8.5	8.5	−1	8.55	4.64	4.77
	o		8.9	9.0	+1	8.95	4.64	$47\overset{6}{5}$
	p		9.40 L! 9.3 9.5	9.3		9.35		$47\overset{4}{1}$

$5-1/6 = +07$

Seq. B

Plot 54

		Sc 2		16415 p. 99	Mean	Diff. 53:87
Take mean with 16415,	a	4.1		4.2	4.15	6.20
p. 99	b	5.0		5.0	5.00	5.79
For reducing	c	5.7		5.5	5.60	5.73
Seq. H	d	5.5		5.5	5.50	5.85
on 16413 page 97	e	6.5	0	6.5	6.50	5.39
	f	6.5	0	6.5	6.50	5.57
Plot magn.	g	7.1	0	7.1	7.10	5.37
Bk 53, p 87	h	8.1	−1	8.0	8.05	5.17
	k	8.7	−2	8.5	8.60	4.82
	l	9.0	−1	8.9	8.95	4.84
	m	9.9		9.8?	9.85?	4.47

$-4/6 = -07$

Plot 22

Sequences Near N Pole

Dec 13, 1919

Sc N

Take mean with 16415, page 100
For reducing Seq. M on 16413, p.98

Plot magn. Book 53, p. 151

Seq $	MC 16412 Sc 1	Sc 2	MC16415 p.100	Mean	Diff
a		4.0	4.0	4.00	5.96
b		4.2 4.950!	4.3	4.25	5.88
c		5.0 4.9	4.9	4.92	5.79
d		5.1	4.8	4.95	6.00
e		5.5	5.3	5.40	5.82
f		5.8	5.7	5.75	5.77
g		6.1	6.0	6.05	5.71
h		6.5	6.5	6.50	5.60
k		6.8	6.9	6.85	5.38
l		7.1	7.2	7.15	5.38
m		7.7	7.7	7.70	5.16
n		8.0	8.0	8.00	5.30
o		9.8?	9.5	9.65	,

Sequences Near N Pole

Dec 13, 1919

Sc4

MC 16413

Copied 53:125

May, 1920

Re-reduced

Seq. G

Reduce with Seq. F, p.95

MC16412, 415

	Sc1	Sc2	Cu.	Magn	Cu			Magn
a		3.9	6.01	9.91	5.97			9.87
b		4.3	5.93	10.23	5.94			10.24
c		4.5	5.89	10.39	5.89			10.39
d		4.9	5.80	10.70	5.80			10.70
e		5.2	5.72	10.92	5.71			10.91
f		5.5	5.64	11.14	5.64			11.14
g	w.s	~~6.0~~ 5.7	5.60	11.30	5.60			11.30
h		6.8	5.26	12.06	5.31			12.11
k		7.3	5.10	12.40	5.19			12.49
l		7.9	4.92	12.82	5.03	5.08	12.98	12.93
m		8.1	4.85	12.95	4.98	5.06	13.16	13.08
n		8.3	4.79	13.09	4.93	5.03	13.33	13.23
o		9.0	4.53	13.53	4.74	4.95	13.95	13.74
p		9.3?	.	,	4.71	4.92	14.22	14.01?

Copied 53:125

Seq. H

Reduce with Seq. B, p.95

	Sc2	Cu	Magn
a	4.0	6.18	10.18
b	4.4	6.07	10.47
c	5.3	5.84	11.14
d	5.5	5.79	11.29
e	6.1	5.62	11.72
f	6.3	5.57	11.87
g	6.5	5.52	12.02
h	7.1	5.36	12.46
k	7.5	5.25	12.75
l	8.0	5.10	13.16
	8.60	4.91	
m	8.5	8.7	13.51
n			

Copied 53:109

Uncertain defects

Sequences Near N. Pole
Dec 13, 1919

Copied 53:129

ScV

M16413 cont.

Seq M

Reduce with Seq. S, p.96

	Sc 1	Sc 2	Cu	Magn	
a		4.1	5.95	10.05	
b		4.5	5.92	10.42	
c		5.5	5.79	11.29	
d		5.7	5.75	11.45	
e		6.0	5.69	11.69	
f		6.2	5.64	11.84	
g		6.5	5.57	12.07	
h		7.0	5.42	12.42	
k		7.7	5.25	12.95	
l		8.0	5.20	13.20	
m		8.3	5.13	13.43	
n		9.0	5.00	14.00	E
o		960 9.5	L1 5.07 9.7	14.67	E.
p		ns			

Sequences Near N Pole
Dec 13, 1919

ScV

MC 16415

Copy on page 95 and later mean

Seq I	Sc 1	Sc 2
		*
a		3.8
b		4.0
c		4.3
d		4.8
e		5.1
f		5.5
g		6.0
h		6.5
k		6.9
l		7.5
m		8.0
n		8.5
o		9.0
p		9.3

Copy on page 95 and later mean

Seq B	Sc 1	Sc 2
		*
a		4.2
b		5.0
c		5.5
d		5.5
e		6.5
f		6.5
g		7.1
h		8.0
k		8.5
l		8.9
m		9.8?

* See p. 95

Sequences Near N Pole
Dec 13, 1919

Set V

MC 16415

Seq D

Copy on page 96, and take mean.

	Sc 1	Sc 2
a		4.0
b		4.3
c		4.9
d		4.8
e		5.3
f		5.7
g		6.0
h		6.5
k		6.9
l		7.2
m		7.7
n		8.0
o		9.5

1,30

Sequences Near N Pole

Dec 15, 1919

ScV

10 – 10 MC 16412

Seq A

Reduce with Seq F on 16413

	Sc1	Sc2	
a		4.9	
b		5.1	
c		5.4	
d		5.5	
e		5.8	
f		6.3	
g		6.5	
h		7.1	7.3
k		7.8	
l		8.0	
m		9.0	

Seq F

For reducing Seq A on 16414

	Sc1	Sc2
a		4.2
b		4.7
c		5.1
d		5.5
e		5.7
f		6.0
g		6.4
h		6.7
k		7.1
l		7.5
m		7.9
n		8.1
o		8.9
p		F

Sequences Near N Pole

Dec 15, 1919

DeV

MC 16412

Seq M

Reduce with
Seq S on 16414

	Sc1	Sc2	
a		4.0	
b		4.7	
c		5.7	
d		5.9	
e		6.1	
f		6.5	
g		6.8	
h		7.0	
k		7.5	
l		7.9	
m		8.3	
n		8.8	
o		9.3	9.5

Ser

Sequences Near N Pole
Dec 15, 1919

MC 16413

For reducing
A on 16412

Seq F	Sc 1	Sc 2	
a		4.0	
b		4.5	
c		4.9	
d		5.3	
e		5.5	
f		5.9	
g		6.7	6.5
h		6.7?	Sup.
k		6.9	
l		7.3	
m		7.5	
n		8.0	
o		9.0	
p		9.5?	

Sc Y

Sequences Near N Pole

Dec 15, 1919

MC 16414

Seq A

Reduce with Seq. 7 on 16412, 16415

	Sc 1	Sc 2	
a		5.0	
b		5.3	
c		5.5	
d		5.7	
e		6.2	6.0
f		6.7	6.5
g		7.0	6.9
h		7.9	
k		8.0	
l		8.3	
m		9.0	
n		n.s	

Seq S

For reducing Seq M on {16412, 16415

	Sc 1	Sc 2
a		3.9
b		4.3
c		5.0
d		4.8
e		5.5
f		5.7
g		6.1
h		6.5
k		6.8
l		7.1
m		7.8
n		8.1
o		9.3

Sequences Near N Pole
Dec 15, 1919

Sc V

MC 16415

Seq A

Reduce with Seq. F on 16413

	Sc 1	Sc 2	
a		4.3	
b		5.1	
c		5.3	
d		5.5	
e		5.7	
f		6.1	
g		6.5	
h		7.3	
k		7.9	
l		8.1	
m		9.1	

Seq F

For reducing Seq A on 16414

	Sc 1	Sc 2	
a		4.0	
b		4.3	
c		4.9	
d		5.2	
e		5.7	
f		5.7	
g		6.3	
h		6.7	
k		7.0	
l		7.7	7.5
m		7.8	
n		8.1	
o		8.7	
p		9.7?	

Sequences Near N Pole
Dec 15, 1919

Sc V

M16415

Seq M

Reduce with Seq. S on 16414

	Sc 1	Sc 2
a		4.0
b		4.5
c		5.4
d		5.5
e		5.8
f		6.3
g		6.7
h		7.0
k		7.3
l		7.9
m		8.2
n		8.9
o		9.7

12.30

Plot 25

Sequences Near N Pole

DeM

Dec 18, 1919

12-10 MC 7976 Exp B Pole

	Sc 1	Sc 2	Diff
8	2.3 ~~2.1~~		5.93
9	2.9 ~~2.7~~		5.93
10	3.1 2.9		5.92
11	3.5 3.3		6.05
12	3.8 3.6 ~~3.8~~ 3.75 0.2	3.7	6.11
13		4.1 0.11 4.0 4.2	6.20
14		4.5	6.15
15		4.9	6.18
16		5.3	6.10
17		5.7	5.93
18		6.3	5.76
19		6.5	5.92
20		6.9	5.83
23		7.7	5.64
25		8.3	5.57
26		8.8	5.53
27		9.3	5.39
28		9.8?	5.31

Sequences Near N Pole
Dec 18, 1919

ScM

MC 7976

Seq B

	Sc 1	Sc 2	Cu	Magn
a		4.0	6.14	10.14
f		4.5	6.15	10.65
c		5.3	6.06	11.36
d		5.5	603	11.53
e		6.1	594	12.04
f		6.3	591	12.21
g	Nearly sup		.	.
h		7.60 7.5	5.66 7.7	13.26
k		8.0	560	13.60
l		8.4	554	13.94
m		9.0	544	14.44
n		9.5	537	14.87

Copied on Sheets

Seq V

	Sc 1	Sc 2	Cu	Magn
a	3.7 3.5 3.70 00	3.7	612	9.82
b		4.1	615	10.25
c		4.4	615	10.55
d		5.2	607	11.27
e		5.5	603	11.53
f		6.40 6.3	590 6.5	12.30
g		6.7	583	12.53
h		6.9	580	12.70
k		7.3	572	13.02
l		7.5	569	13.19
m		7.9	562	13.52
n		8.3	556	13.86
o		8.8	548	14.28
p		9.8	533	15.13?

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SeM

Sequences Near N Pole
Dec 18, 1919

MC 7976

Seq W

	Sc 1	Sc 2	Cu	Magn
a	3.5 3.7		6.12	9.82
b		4.0	6.14	10.14
c		4.1	6.15	10.25
d		5.0	6.10	11.10
e		5.5	6.03	11.53
f		6.0	5.96	11.96
g		6.4	5.90	12.30
h		6.7	5.83	12.53
k		7.0	5.78	12.78
l		7.3	5.72	13.02
m		7.5	5.69	13.19
n		7.9	5.62	13.52
o		8.40!! 8.3	5.54 8.5	13.94
r		n.s?		

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Seq δ

	Sc 1	Sc 2	Cu	Magn
a	2.9 3.1		6.01	9.11
b	3.5 3.7	3.7	6.12	9.82
c		4.9	6.12	11.02
d		5.2	6.07	11.27
e		5.40!! 5.5 5.3	6.05	11.45
f		5.60!! 5.5 5.7	6.02	11.62
g		5.9	5.98	11.88
h		6.4	5.90	12.30
k		6.5	5.88	12.38
l		7.3	5.72	13.02
l'		8.3	5.56	13.86
m		8.40!! 8.7 7.9	5.60	13.60
m'		8.9	5.46	14.36
n		8.7	5.50	14.20
o		9.0	5.44	14.44
p		9.3	5.40	14.70

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1:30

Plot 25

Sequences Near N Pole

Dec 19, 1919

SeM

10:35 MC 7976 Pole Ex B

	Sc 1	Sc 2	Diff
8	5 2.4 2.3		5.73
9	2.9 3.0 2.8		5.83
10	3.2 3.0		5.82
11	3.7 3.5		5.85
12		3.8	6.06
13		4.3	6.00
14		4.7	5.95
15		5.05 5.2 4.9	3 6.0~~8~~
16		5.5	5.90
17		5.8	5.83
18		6.3	5.76
19		6.5	5.92
20		7.0	5.73
21		7.4	5.56
22		7.5	5.69
23		7.9	5.44
25		8.3	5.57
26		8.9	5.43
27		9.3	5.39

Sequences Near N Pole
Dec 19, 1919

SeM

MC 7976

Seq I

	Sc 1	Sc 2	Cu	Magn
a	3.7 3.5		5.92	60 9.42
b	3.7 3.5		5.92	6 9.42
c	40 38	4.0	5.95	9.95
d		4.7	5.99	10.69
e		4.9	5.98	10.88
f		5.3	5.95	11.25
g		5.7	5.92	11.62
h		6.0	5.90	11.90
k		6.5	5.82	12.32
l		7.3	5.68	12.98
m		7.5	5.64	13.14
n		7.7	5.62	13.32
o		8.2	5.54	13.74
p		8.60 11 8.5	5.49 8.7	14.09

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Seq D

	Sc 1	Sc 2	Cu	Magn
a	35 33		5.90	9.40
b	3.7 3.5		5.92	9.62
c		4.1	5.97	10.07
d		4.3	5.98	10.28
e		5.0	5.96	10.96
f		5.2	5.95	11.15
g		5.5	5.94	11.44
h		6.0	5.90	11.90
k		6.3	5.87	12.17
l		6.8	5.77	12.57
m		7.20 7.1	5.70 7.3	12.90
n		7.5	5.64	13.14
o		8.40 8.3	5.52 8.5	13.92
p		9.3	5.40	14.70

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Sc V

Sequences Near N Pole
Dec 19, 1919

MC 7976

Seq U		Sc 1	Sc 2		Cu	Magn
	a		3.9		5.94	x9.84
	b		4.2		5.97	10.17
	c		4.3		5.98	10.28
	d		4.9		5.97	10.87
	e		5.3		5.95	11.25
	f		5.5		5.94	11.44
	g		6.0		5.90	11.90
	h		6.2		5.88	12.08
	k		6.9		5.74	12.64
	l		7.2		5.70	12.90
	m		7.5		5.65	13.15
	n		7.90 8.0	7.8	5.60	13.50
	o		8.7		5.47	14.17
	p		9.1		5.42	14.52

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Seq S		Sc 1	Sc 2		Cu	Magn
	a	2.9	3.1		5.80	8.80
	b	3.60 3.5	3.7		5.90	9.50
	c		4.8		5.98	10.78
	d		5.1		5.96	11.06
	e		5.5		5.93	11.43
	f		5.5		5.93	11.43
	g		6.0		5.90	11.90
	h		6.5		5.83	12.33
	k		6.7		5.79	12.49
	l		7.5		5.65	13.15
	l′		8.3		5.53	13.83
	(m,		8.0		5.57	1357
	m		8.9		5.44	14.34
	n		8.7		5.47	14.37
	o		9.0		5.43	14.43
	p		9.3		5.40	14.70

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12:25

Sequences Near N Pole
Dec 19, 1919

Ser 1 – 15

MC 16004

Seq B

	Ser 1	Ser 2	
a		5.90 6,0	5.8
b		6,5	
c		7.20 7,1	7.3
d		7.0	
e		8,1	
f		8,3	
g		8,9	
h		n.s	
k			
l			

MC 16009

Seq S

a	3.3 3.1	
b		4.7
c		7.0
d		7.7
e		7.9
f		7.9
g		8.7
h		9.0
k		7

Sct

Sequences Near N. Pole
Dec 19, 1919

MC 16011

Seq B		Sc1	Sc2	
	a		5.0	
	b		5.3	
	c		6.9	
	d		6.7	
	e		7.7	
	f		7.5	7.7
	g		8.3	
	h		9.0	
	k		ns	

~~1.1 1.50~~
1.15 - 1.50

Plot 43

Sequences Near N Pole

Dec 20, 1919

De V

1, 30

MC 16114

Seq V

	Sc 1	Sc 2	B 53:162 Diff-Magnitudes 1920
a		4.7	5.17
b		5.3	5.09
c		5.7	4.99
d		6.3	4.95
e		6.5	4.95
f		7.2	4.86
g		7.5	4.75
h		7.9	4.66
k		8.5	4.35
l		8.9	4.19
m		9.3	4.14
n		F	.

MC 16121

Seq V

a	4.5	5.37
b	5.5	4.89
c	5.8	4.89
d	6.5	4.75
e	6.7	4.75
f	7.3	4.76
g	7.7	4.55
h	8.1	4.46
k	8.5	4.35
l	8.9	4.19
m	9.5	3.94
n	n.s.	.

Sequences Near N Pole
Dec 20, 1919

Dec V

MC 16117

		Sc 1	Sc 2
Seq S W.S.°	a	2.9	
	b		4.5
	c		6.5
	d		6.9
	e		7.3 7.1
	f		7.1
	g		7.7
	h		8.7
	k		8.1
	l		8.8
	m		9.8?

~~Reduce with aux for mean of Readings~~

Seq. V p. 115

Sequences Near N Pole.
Dec 20, 1919

Sc V

MC 16117

		Sc 1	Sc 2	
Seq U				
	a		4.4	
	b		5.3	
	c		5.5	
	d		5.7	5.9
	e		6.5	
	f		6.8	
	g		7.2	
	h		7.5	
	k		7.9	
	l		8.8	
	m		9.1	
Seq W				
	a		4.1 w.s ~~5.5~~	
	b		5.0	
	c		5.3	
	d		6.0	
	e		6.2	
	f		7.3	
	g		7.5	
	h		7.9	7.8
	k		8.3	
	l		9.2 ?	
	m		9.8 ?	

2:40

Sequences Near N Pole

Jan 8, 1920

Dev

10 – 30

Plotted sheet 42

	MC 16506 Pole Sc 1	Sc 2		MC 16512 p/22	Mean	Diff
8	2.3 2.2			22	2.25	5.98
9	3.0 2.9			2.9	2.95	5.88
10	3.2 3.1			3.1	3.15	5.87
11	3.6 3.5			36	3.60	5.95
12	3.9 3.8 390 0 0	3.9		395	3.92	5.94
13		4.4		4.3	4.35	5.95
14		4.8		4.7	4.75	5.90
15		5.1		5.2	5.15	5.93
16		5.5		5.5	5.50	5.90
17		5.8		5.7	5.75	5.88
18		6.3	0	6.3	6.30	.76 5.83
19		6.5	0	6.5	6.50	92 5.56
20		6.80!! 0 6.7 6.9		6.8	6.80	9.3 5.62
21		7.2	-1	7.1	7.15	.81 5.58
22		7.5	0	7.5	7.50	5.69
23		7.5	+1	7.60	7.55	5.79
24		7.8	0	7.8	7.80	5.84
25		8.1	-1	8.0	8.05	5.82
26		8.5	-2	8.3	8.40	5.93
27		8.9	-2	8.7	8.80	5.88
28		9.3		9.2	9.25	5.86
29		9.8		9.8	9.80	5.86
30		7		.	.	

$\frac{1-6}{10}$ -.05

Sequences Near N Pole

Sc V

Jan 8 1920

MC 16506 (cont.)

Seq G

	Sc 1	Sc 2	shut 42 Cu.	Do not copy Magn.
a		3.9	5.91	9.81
b		4.3	5.92	10.22
c		4.9	5.91	10.81
d		5.1	5.90	11.00
e		5.40 5.5	5.90 5.3	11.30
f		5.5	5.89	11.39
g		6.0	5.88	11.88
h		6.3	5.88	12.18
k		6.7	5.87	12.57
l		7.7	5.88	13.58
m		8.1	5.88	13.98
n		8.8	5.89	14.69
o		9.5	5.89	15.39

MC 16507

Seq a

Copied 63'81

		shut 42	
a	4.8	5.90	10.70
b	5.1	5.90	11.00
c	5.3	5.88	11.18
d	5.5	5.89	11.39
e	5.8	5.88	11.68
f	6.1	5.88	11.98
g	6.3	5.88	12.18
h	7.0	5.87	12.87
k	7.4	5.87	13.27
l	7.7	5.88	13.58
m	8.0	5.88	13.88
n	8.8	5.89	14.69
o	9.0	5.90	14.90

Sequences Near N Pole

S.V

Jan 8, 1920

Copied 53:193

Seq B

MC16508

	Sc1	Sc2		Cu	Magn
a		4.1		5.92	10.02
b		4.7		5.91	10.61
c		5.4		5.90	11.30
d		5.5		5.90	11.40
e		6.0		5.88	11.88
f		6.3		5.88	12.18
g		6.7		5.87	12.57
h		7.1		5.86	12.96
k		7.60 7.7	75	5.87	13.47
l		7.9		5.88	13.78
m		8.5		5.88	14.38
n		9.15 9.0	9.3	5.89	15.04

Copied 53:203

Seq N

MC16509

a	4.40 4.3	4.5	5.92	10.32
b	5.3		5.88	11.18
c	5.5		5.90	11.40
d	6.2		5.87	12.07
e	6.5		5.87	12.37
f	6.7		5.87	12.57
g	7.2		5.86	13.06
h	7.5		5.87	13.37
k	7.7		5.88	13.58
l	8.3		5.88	14.18
m	8.7		5.89	14.59
n	9.1		5.89	14.99

Sequences Near N Pole

Se V

Jan 8, 1920

Copied 53:129

MC 16511

Seq M

Seq M	Se 1	Se 2	Cu.	Magn
a		3.9	5.91	9.81
b		4.3	5.92	10.22
c		4.9	5.91	10.81
d		5.3	5.88	11.18
e		5.5	5.90	11.40
f		5.7	5.89	11.59
g		6.1	5.88	11.98
h		6.4	5.87	12.27
k		6.7	5.87	12.57
l		7.0	5.87	12.87
m		7.5	5.87	13.37
n		8.0	5.88	13.88
o		8.3	5.88	14.18
p		9.1	5.89	14.99
q		9.5	5.89	15.39

Sequences Near N. Pole

See V

Jan 8, 1920

	MC 16512		Pole
	Sc 1	Sc 2	
8	2.2 2.1		
9	2.9 2.8		
10	3.1 3.0		
11	3.6 3.5		
12	3.9 3.8 3.95 1.0	4.0	
13		4.3	
14		4.7	
15		5.2	
16		5.5	
17		5.7	
18		6.3	
19		6.5	
20		6.8	
21		7.1	
22		7.5	
23		7.60 ± .1 7.5	7.7
24		7.8	
25		8.0	
26		8.3	
27		8.7	
28		9.2	
29		9.8	

See p 118

Sequences Near N Pole

Jan 8, 1924

Copied 58:209

ScX

MC 16512

Seq I

	Sc 1	Sc 2	Cu.	Magn
a		3.9	5.92	986
b		4.0	5.92	9.92
c		4.4	5.92	1032
d		4.60 1L 4.7 4.5	5.91	10.51
e		4.5	5.92	10.42
f		5.1	5.90	11.00
g		5.5	5.89	11.39
h		5.7	5.89	11.59
k		6.3	5.88	12.18
l		6.80 L1 6.7 6.9	5.87	12.67
m		6.9	5.87	12.77
n		7.3	5.86	13.16
o		7.5	5.87	13.37
p		8.0	5.88	13.88
~~q~~				

Not superposed

12;30

10 —

Sequences Near N Pole

Plate 46

ScV

January 9, 1920

M 16506

Seq G

For reducing seq C on 16507
D .. 16508
K .. 16509
L .. 16511

	Sc 1	Sc 2	MC16512 p.128	Mean	Diff	Re-reduced f. new mag's 53,107	May, 1920 Diff Pl 46 42 BK53,106	MC16509 p.196	16509 − 16506,12
a		4.0	3.9	3.95	6.06	6.14	6.18		
b		4.5	4.3	4.40	6.08	6.08	6.08		
c		4.7	4.9	4.80	6.08	6.12	6.11		
d		4.9	5.0	4.95	6.03	6.09	6.05		
e		5.3	5.3	5.30	5.97	5.94	5.94		
f		5.5	5.5	5.50	6.14	6.06	6.11		
g		6.0 +1	6.1	6.05	6.02	5.99	5.99	5.9	−15
h		6.3 0	6.3	6.30	6.05	6.10	6.09	6.2	−10
k		6.8 −1	6.7	6.75	6.19	6.09	6.15	6.5	−25
l		7.7 −2	7.5	7.60	5.74	5.76	5.81	7.3	−30
m		8.1 −1	8.0	8.05	5.46	5.85	5.9~~7~~2	8.1	+05
n		8.7 0	8.7	8.70		5.66	5.91	8.7	00
o		9.5	9.3	9.40		5.35	~~6.04~~ 5.95	9.3	(−10)
p		.	9.8?	9.80?		5.35	5.98	9.8	

Copied 53:89

5-80 / 6 = −.12

MC 16507 1−4 / 6 −05

Seq b

Reduce with seq G on 16506 p12

			Cu	Magn	Cu	Sheet 46 Magn Re-reduced.	May 1920 sheet 42 Cu	magn
a	3.6 3.5		6.05	9.65	.	.	6.12 e	9.72 e
b		3.9	6.06	9.96	6.13	10.03	6.10	10.00
c		4.3	6.07	10.37	6.12	10.42	6.10	10.40
d		4.5	6.08	10.58	6.12	10.62	6.1	10.60
e		5.3	6.09	11.~~4~~39	6.08	11.38	6.05	11.35
f		5.5	6.10	11.60	6.07	11.57	6.03	11.53
g		5.5	6.10	11.60	6.07	11.57	6.03	11.53
h		5.9	6.09	11.99	6.05	11.95	6.02	11.92
k		6.8	6.00	12.80	5.99	12.79	6.00	12.80
l		7.1	5.94	13.04	5.96	13.06	6.00	13.10
m		7.7	5.87	13.57	5.87	13.57	5.98	13.68
n		8.1	5.82	13.92	5.79	13.89	5.98	14.08
o		9.3?	5.65	14.95?	ε 5.47	14.77?	5.96	15.26?

Copied ✓ 53:89

Sequences Near N Pole ~~Plot 46~~

January 9, 1920

Se V

Mc 16508

Seq Dx

Copied 53'.93

Re-reduced

me 16506 512 g

	Se 1	Se 2	Cu	Magn	Cu	Magn	May, 1920 cu	magn
a	3.6 3.5		6.05	9.65	.		6.12 e	9.72
b		4.3	6.07	10.37	6.12	10.42		
c		4.9	6.09	10.99	6.10	11.00		
d		5.0	6.09	11.09	6.10	11.10		
e		5.7	6.10	11.80	6.06	11.76		
f		6.2	6.06	12.26	6.04	12.24		
g		6.4	6.04	12.44	6.02	12.42		
h		6.9	5.98	12.88	5.98	12.88	6.00	12.90
k		7.2	5.93	13.13	5.94	13.14	5.99	13.19
l		7.7	5.87	13.57	5.86	13.56	5.98	13.68
m		8.0	5.83	13.83	5.80	13.80	5.98	13.98
n		8.8	5.73	14.53	E 5.61	14.41	5.96	14.76
l' ~~x~~		7.9	5.84	13.74	5.82	13.72 ?	5.98	13.88

Copied ✓ 53'.93

Copied 53'.200

Rereduced from 16506 - g.

Mc 16509

Seq K

	Se		Cu	Magn	Cu	Magn	cu	magn
a	3.4 3.3	36 3.5	.	.	.	.	6.12 e	9.72 e
b	3.9		6.06	9.96	6.12	10.02		
c	4.2		6.07	10.27	6.12	10.32		
d	4.40 L.1 4.3	4.5	6.08	10.48	6.11	10.51		
e	4.5		6.09	10.59	6.11	10.61		
f	4.8		6.09	10.89	6.10	10.90		
g	4.9		6.09	10.99	6.10	11.00		
h	5.3		6.09	11.39	6.08	11.38		
k	5.9		6.09	11.99	6.05	11.95		
l	6.3		6.05	12.35	6.03	12.33		
m	6.5		6.03	12.53	6.01	12.51	6.02	12.52
n	7.3		5.91	13.21	5.93	13.23	5.99	13.29
o	7.9		5.85	13.75	5.82	13.72	5.98	13.88
p	9.0		5.70	14.70 E	5.55	14.55	5.96	14.96

16506 g 512

Copied 53'.200

Sc V

Sequences Near N Pole

January 9, 1920

Copied 53:125

Seq L

M 16511

G 16506 plate 42
512

	Sc 1	Sc 2	Cu	Magn	Cu	Magn Re-reduced	May 1920 ac magn	
a	3.5 3.4		6.05	9.55	.		6.12e	9.62e
b		3.9	6.06	9.96	6.13	10.03		
c		4.0	6.06	10.06	6.10	10.10		
d		4.3	6.07	10.37	6.12	10.42		
e		4.5	6.08	10.58	6.12	10.62		
f		4.9	6.09	10.99	6.11	11.01		
g		5.1	6.09	11.19	6.09	11.19		
h		5.3	6.09	11.39	6.08	11.38		
k		6.5	6.03	12.53	6.02	12.52	6.02	12.52
l		6.9	5.99	12.89	5.98	12.88	6.06	12.90
m		7.2	5.93	13.13	5.94	13.14	5.99	13.19
n		7.60 7.5	5.88 7.7	13.48	5.88	13.48	5.99	13.59
o		8.1	5.82	13.92	5.79	13.89	5.98	14.08
p		8.5	5.87	14.37	5.70 E	14.20	5.97	14.47

Copied 53:125 ✓

Sequences Near N Pole
January 9, 1920

Del

MC 16512 Pole

	Sc 1	Sc 2	Diff
8	2.1 2.0		6.13
9	2.6 2.5		6.23
10	2.9 2.8		6.12
11	3.4 3.3		6.15
12	3.8 3.7 3.850'	3.9	6.01
13		4.3	6.00
14		4.7	5.95
15		5.2	5.88
16		5.5	5.90
17		5.7	5.93
18		6.3	5.76
19		6.5	5.92
20		6.8	5.93
21		7.1	5.86
22		7.3	5.89
23		7.5	5.84
24		7.7	5.94
25		8.0	5.87
26		8.3	6.03
27		8.8	5.89
28		9.3	5.81
29		9.8	5.86
30		7	.

Sequences Near N Pole

Dav January 9, 1920

Mc 16512

Seq Y

	Sc1	Sc2
a		3.9
b		4.3
c		4.9
d		5.0
e		5.3
f		5.5
g		6.1
h		6.3
k		6.7
l		7.5
m		8.0
n		8.7
o		9.3
p		9.8

See p. 124

12:25

Plot 46, 42

10:20

DeV

Deg J

Sequences Near N Pole

January 12, 1920

MC16506

Re reduced for New Magns

May 1920

Plt 42

	Sc 1	Sc 2	MC16512 pl. 134		Mean	Diff	Diff B 53:155	Diff BK 53:154
a	3.6 3.5		3.6		3.60	6.16	6.10	6.12
b		3.9	4.0		3.95	6.10	6.08	6.04
c		4.3	4.2		4.25	6.13	6.09	6.12
d		4.7	4.6		4.65	5.90	5.94	5.94
e		4.7	4.8		4.75	6.04	6.09	6.02
f		5.1	5.1		5.10	6.09	6.04	6.03
g		5.5	5.5		5.50	6.00	6.02	6.00
h		5.9	5.7		5.80	5.91	5.91	5.91
k		6.3	6.3	0	6.30	5.82	5.90	5.92
l		6.7	6.7	0	6.70	5.78	5.92	6.00
m		7.1	7.1	0	7.10	5.81	5.92	5.88
n		7.5	7.5	0	7.50	5.69	5.82	5.85
o		7.7	7.8	+1	7.75	5.84	5.95	5.96
p		8.1	8.3	+1	8.20		5.86	5.89

2/6 = +33

ScV

Sequences Near N Pole

January 12, 1920

MC 16506 Pole

Plotted Sheet 42

	Sc 1	So 2	Diff
8	2.2 2.1		6.03
9	2.9 2.8		5.93
10	3.2 3.1		5.82
11	3.6 3.5		5.95
12		4.0	5.86
13		4.3	6.00
14		4.7	5.95
15		5.1	5.98
16		5.5	5.90
17		5.7	5.93
18		6.3	5.76
19		6.5	5.92
20		6.7	6.03
21		7.1	5.86
22		7.3	5.89
23		7.5	5.84
24		7.8	5.84
25		8.0	5.87
26		8.5	5.83
27		8.8	5.89
28		9.3	5.81
29		9.8	5.86

For editing

N on 16507

V " 16508

Q " 16509

O " 16511

Sequences Near N Pole

January 12, 1920

Se 4

Seq W

MC 16507

Copied 53: 212

Re-reduced

Plt 42 May 1920

Reduce with I on MC 16506, 5.12 Plt 46

	Se 1	Se 2	Cu	Magn	Cu	Magn	cu	magn
a	3.6 3.5		6.11	9.71	6.09	9.69		
b	3.8 3.7 3.85'01	3.9	6.10	9.95	6.08	9.93		
c		4.1	6.08	10.18	6.07	10.17		
d		4.6	6.02	10.62	6.05	10.65		
e		5.3	5.94	11.24	6.01	11.31		
f		5.7	5.90	11.60	5.99	11.69		
g		6.0	5.88	11.88	5.96	11.96		
h		6.3	5.84	12.14	5.94	12.24		
k		6.7	5.81	12.51	5.92	12.62		
l		7.2	5.77	12.97	5.90	13.10		
m		7.5	5.74	13.24	5.89	13.39		
n		7.8	5.71	13.51	5.86	13.66	5.92	13.72
o		7.9	5.70	13.60	5.86	13.76	5.92	13.82
p		8.9	5.62	14.52	5.84 e	14.74 e	5.92 e	14.82 e

Copied 53: 212

Sequences Near N Pole

Sc V

January 1st, 1920

MC 16508

Seq V

Re-reduced with J 16506

Copied 53:210

	Sc 1	Sc 2	Cu	Magn	Cu		Cu.	Magn
							May, 1920	Re-reduced
a	3.6 3.5		6.12	9.72	6.15	9.75	609	9.69
b		4.2	6.07	10.27	6.13	10.33	6.07	10.27
c		4.7	6.01	10.71	6.12	10.82	604	10.74
d		5.3	5.94	11.24	6.11	11.41	611	11.41
e		5.5	5.92	11.42	6.10	11.60	610	11.60
f		6.2	5.85	12.05	6.10	12.30	5.95	12.15
g		6.3	5.82	12.32	6.08	12.58	5.93	12.43
h		6.8	5.80	12.60	6.06	12.86	5.91	12.71
k		7.1	5.78	12.88	6.02	13.12	5.90	13.00
l		7.3	5.77	13.07	6.01	13.31	5.89	13.19
m		7.7	5.72	13.42	5.95	13.65	5.88	13.58
n		8.0	5.70	13.70	5.91	13.91	5.92 5.87	92 13.87
o		8.5	5.64	14.14	5.80	14.30	5.92 5.85	42 14.35
p		7						

Copied 53:210 ✓

Copied 53:141

MC 16509

Seq Q

J 16506

		Cu	Magn	Cu	Magn
					Re-reduced
a	3.8	6.10	9.90	6.08	9.88
b	4.0	6.08	10.08	6.07	10.07
c	4.7	6.01	10.71	6.05	10.75
d	4.9	5.99	10.89	6.04	10.94
e	5.3	5.94	11.24	6.01	11.31
f	5.5	5.92	11.42	6.00	11.50
g	5.6	5.92	11.52	6.00	11.60
h	6.1	5.87	11.97	5.95	12.05
k	6.5	5.82	12.32	5.93	12.43
l	7.2 7.40	5.77	12.97	5.90	13.10
m	7.5 7.3	5.75	13.15	5.89	13.29
n	7.8	5.74	13.24	5.88	13.38
o	7.9	5.70	13.60	5.86	13.76

Copied 53:205 ✓

May, 1920
Cu Magn
5.92 14.22
5.92 14.82

5.92 13.42
5.92 13.82

Sequences Near N Pole
January 12, 1920

Sc V

MC 165~~09~~ 11

Copied 53, 137

May, 1920

Re-reduced

J 16506

Seq O	Sc 1	Sc 2	Cu		Cu	Magn
a	$\overset{3.6}{3.5}$ 3.65	3.7	6.12	9.77	6.09	9.74
b		4.1	6.08	10.18	6.07	10.17
c		4.4	6.04	10.44	6.06	10.46
d		4.7	6.01	10.71	6.05	10.75
e		5.1	5.97	11.07	6.03	11.13
f		5.1	5.97	11.07	6.03	11.13
g		5.3	5.94	11.24	6.01	11.31
h		5.5	5.92	11.42	6.00	11.50
k		$\overset{5.90!!}{6.0}$ 5.8	5.89	11.79	5.97	11.87
l		6.1	5.87	11.97	5.95	12.05
m		6.5	5.82	12.32	5.93	12.43
n		6.9	5.79	12.69	5.91	12.81
o		7.1	5.78	12.88	5.90	13.00
p		7.8	5.71	13.51	$\overset{92}{5.87}$	$\overset{72}{13.67}$
q		8.8	5.63	14.43	$\overset{92}{5.85}$	$\overset{72}{14.65}$

Copied ✓ 53: 137

Sequences Near N Pole
January 12, 1920

Sec V

MC 16812

Seq I

	Sc 1	Sc 2
a	3.6 3.5	
b		4.0
c		4.2
d		4.6
e		4.8
f		5.1
g		5.5
h		5.7
k		6.3
l		6.7
m		7.1
n		7.5
o		7.8
p		8.3

See p 129

12:30

10ʰ 15
DeM

Sequences Near N Pole

January 14, 1920

Mc 7976 Exp. A Pole

	Sc 1	Sc 2	7976 p. 138	7976 p. 140	Mean	Diff
8 $^{2.7}$	2.5		2.9^{8}	2.7	2.77111	5.46
9 $^{3.4}$	3.2		3.4~~5~~ ^{0}	3.4	3.40000	5.43
10 $^{3.5}$	3.3		3.5	3.5	3.50000	5.52
11		3.8	3.7	3.8	3.77010	5.78
12		4.1	4.0	4.1	4.07010	5.79
13		4.5	4.5	4.5	4.50000	5.80
14		5.0	5.0	5.1	5.00001	5.65
15		5.5	5.5	5.5	5.50000	5.58
16		5.8	5.7	5.8	5.77010	5.63
17		6.0	6.0	6.0	6.00000	5.63
18		6.5	6.5	6.5	6.50000	5.56
19		6.7	6.8	6.7	6.73010	5.69
20		6.9	7.0	6.9	6.93010	5.80
21		7.3	7.3	7.1	7.23111	5.73
22		7.5	7.5	7.3	7.43111	5.76
23		7.8	7.8	7.7	7.77001	5.57
25		8.3	8.3	8.2	8.27001	5.60
26		8.7	8.8	8.7	8.73010	5.60
27		9.1	9.2	9.2	9.171000	5.52
28		$8.2^{9.7}$	.	.	.	5.41
29		7	.	.	.	.

Sc M

Sequences Near N Pole

January 14, 1920

MC 7976 (cont.) (Exp. a)

Seq B

	Sc1	Sc2	Cu	Magn
a		4.5	5.74	10.24
b		5.1	5.70	10.80
c		5.5	5.70	11.20
d		5.5	5.70	11.20
e		6.2	5.67	11.87
f		6.5	5.65	12.15
g		6.7	5.64	12.34
h		7.5	5.64	13.14
k		8.0	5.61	13.61
l		8.3	5.60	13.90
m		8.9	5.54	14.44
n		n.s.	'	'

Copied on Sheet.

Seq V

	Sc1	Sc2	Cu	Magn
a	3.7 3.5		5.65	9.35
b	4.3 4.1 4.30 00	4.3	5.77	10.07
c		4.5	5.74	10.24
d		5.3	5.70	11.00
e		5.5	5.70	11.20
f		6.2	5.67	11.87
g		6.5	5.65	12.15
h		7.0	5.64	12.64
k		7.3	5.64	12.94
l		7.5	5.64	13.14
m		7.8	5.62	13.42
n		8.2	5.59	13.79
o		8.8	5.53	14.33
p		9.8	5.48	15.28

Copied on Sheet.

Sequences Near N Pole
January 14, 1920

ScM

MC 7976 (cont.) (Exp a)

Seq W		Sc1	Sc2	Cu	Magn
	a		3.8	5.69	9.49
	b		4.0	5.74	9.74
	c		4.1	5.76	9.86
	d		4.9	5.72	10.62
	e		5.3	5.70	11.00
	f		5.9	5.68	11.58
	g		6.2	5.67	11.87
	h		6.7	5.64	12.34
	k		6.5	5.65	12.15
	l		7.3	5.64	12.94
	m		7.7	5.62	13.32
	n		8.0	5.61	13.61
	o		8.5	5.56	14.06
Seq S	-				
	a		B		
	b	3.7 3.5		5.65	9.35
	c		5.1	5.70	10.80
	d		5.3	5.70	11.00
	e		5.5	5.70	11.20
	f		5.7	5.69	11.39
	g		6.1	5.66	11.76
	h		6.7	5.64	12.34
	k		7.1	5.64	12.74
	l		7.5	5.64	13.14
	l'		8.5	5.56	14.06
	m		8.3	5.60	13.90
	m'		8.7	5.54	14.44
	n		8.7	5.54	14.24
	o		9.0	5.51	14.51
	p		9.2	5.49	14.69

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Sequences Near N Pole

Sc M

January 14, 1920

MC 7976 (cont) Pole (Exp a)

	Sc 1	Sc 2
8 $^{2.9}$	2.7	
9 $^{3.5}$	$^{3.40}$ 3.3 $^{3.3}$ 3.1	
10 $^{3.5}$	3.3	
11		3.7
12		4.0
13		4.5
14		5.0
15		5.5
16		5.7
17		6.0
18		6.5
19		6.8
20		7.0
21		7.3
22		7.5
23		7.8
25		8.3
26		8.8
27		9.2
28		Scr

Copied p 135

Sequences Near N Pole
January 14, 1920

SeM

Me 7976

Seq I

	Sc1	Sc2	Cu	Magn
a	3.7 3,5 3.75' LO	3,8	5.67	9.47
b		3.9	5.71	9.61
c		4.2	5.77	9.97
d		4.8	5.72	10.52
e		5.0	5.71	10.71
f		5.3	5.70	11.00
g		5.5	5.70	11.20
h		6.0	5.67	11.67
k		6.5	5.65	12.15
l		7.1	5.64	12.74
m		7.5	5.64	13.14
n		7.8	5.62	13.42
o		8.1	5.60	13.70
p		8.5	5.56	14.06

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Seq S

a	3.7 3.5		5.65	9.35
b		3.8	5.69	9.49
c		4.1	5.76	9.86
d		4.1	5.76	9.86
e		5.1	5.70	10.80
f		5.3	5.70	11.00
g		5.7	5.69	11.39
h		6.1	5.66	11.76
k		6.3	5.66	11.96
l		6.7	5.64	12.34
- m		7.1	5.64	12.74
n		7.5	5.64	13.14
o		8.5	5.56	14.06
p		9.3	5.48	14.78

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Sc M

Sequences Near N Pole

January 14, 1920

MC 7976 cont

Seq U	Sc 1	Sc 2	Cu	Magn
a	3.9 3.7		5.71	9.61
b	4.3 4.1 4.25 10	4.2	5.77	10.02
c		4.4	5.75	10.15
d		4.9	5.71	10.61
e		5.1	5.71	10.81
f		5.5	5.70	11.20
g		5.9	5.68	11.58
h		6.3	5.66	11.96
k		6.9	5.64	12.54
l		7.3	5.64	12.94
m		7.5	5.64	~~13.14~~
n		8.1	5.60	13.70
o		8.9	5.53	14.43
p		9.2	5.49	14.69

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Seq 5	Sc 1	Sc 2	Cu	Magn
a	2.7 2.5		6.07	8.77
b	3.7 3.5		5.65	9.35
c		5.1	5.71	10.81
d		5.4	5.70	11.10
e		5.5	5.70	11.20
f		5.7	5.69	11.39
g		6.1	5.66	11.76
h		6.7	5.64	12.34
k		7.1	5.64	12.74
l		7.5	5.64	13.14
l		8.5	5.66	14.06
m		8.3	5.55	13.85
m		7.9	5.52	14.52
n		8.7	5.54	14.14
o		8.9	5.53	14.43
p		9.1	5.50	14.60

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Sequences Near N Pole

DeM January 14, 1920

MC 7976 cont Pole

	Se1	Sc2
$8.^{27}$	2.5	
$9.^{34}$	3.2	
$10.^{35}$	3.3	
11		38
12		4.1
13		4.5
14		5.1
15		5.5
16		5.8
17		6.0
18		6.5
19		6.7
20		6.9
21		7.1
22		7.3
23		7.7
25		8.2
26		8.7
27		9.2
28		Sou

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Sc M Sequences Near N Pole

January 16, 1920

11 - 00 MC 7975 Exp B - Pole

	Sc 1	Sc 2	I 146	Mean		Diff
8	2.3 2.1		2.3	2.30	0 0	5.93
9	2.9 2.7		2.7	2.80	1 1	6.03
10	3.2 3.0		3.1	3.15	0 1	5.87
11	3.7 3.5		3.6	3.65	1 0	5.90
12	3.9 3.7 3.90 00	3.9	3.9	3.90	0 0	5.96
13		4.3	4.3	4.30	0 0	6.00
14		4.7	4.7	4.70	0 0	5.95
15		5.1	5.0	5.05	1 0	6.03
16		5.5	5.5	5.50	0 0	5.90
17		5.8	5.7	5.75	0 1	5.88
18		6.3	6.1	6.20	1 1	5.86
19		6.7	6.5	6.60	1 0	5.82
20		7.0	6.9	6.95	0 1	5.78
21		7.3	7.3	7.30	0 0	5.66
22		7.5	7.5	7.50	0 0	5.69
23		7.7	7.8	7.75	1 0	5.59
24		8.0	.	8.00	a .	5.64
25		8.5	8.5	8.50	0 0	5.37
26		9.0	8.9	8.95	0 1	5.38
27		9.5	9.3	9.40	1 1	5.29
28		9.8	9.8	9.80	0 0	5.31

Sequences Near N Pole

January 16, 1920

S c M

MC 7975

Seq B

	Sc1	Sc2	Cu	Magn
a		4.0	5.97	9.97
b		4.6	5.98	10.58
c		5.5	5.93	11.43
d		5.5	5.93	11.43
e		6.1	5.87	11.97
f		6.3	5.85	12.15
g		6.7	5.80	12.50
h		7.7	5.62	13.32
k		8.0	5.56	13.56
l		8.3	5.52	13.82
m		8.9	5.42	14.32
n		9.8?	5.26	15.06?

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Seq V

	Sc1	Sc2	Cu	Magn
a		3.8	5.97	9.77
b		4.1	5.98	10.08
c		4.5	5.98	10.48
d		5.1	5.95	11.05
e		5.3	5.94	11.24
f		6.3	5.85	12.15
g		6.5	5.83	12.33
h		7.1	5.73	12.83
k		7.3	5.70	13.06
l		7.5	5.66	13.16
m		8.0	5.56	13.56
n		8.3	5.52	13.82
o		9.0	5.39	14.39
p		9.8	5.26	15.06

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Sequences Near N Pole
January 16, 1920

ScM

MC 7975

Day W

	Sc 1	Sc 2	Cu	Magn
a		3.8	5.97	9.77
b		4.0	5.98	9.98
c		4.3	5.99	10.29
d		4.9	5.97	10.87
e		5.3	5.94	11.24
f		6.1	5.88	11.98
g		6.4	5.84	12.24
h		6.5	5.83	12.33
k		7.0	5.75	12.75
l		7.3	5.70	13.00
m		7.5	5.66	13.16
n		8.0	5.56	13.56
o		8.80 8.9	5.43 8.7	14.23
p		9.3	5.33	14.63

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Sequences Near N Pole
January 16, 1920

ScM

MC 7975

Seq 5

	Sc1	Sc2
a	2.7	
b	3.7	3.9
c		5.1
d		5.3
e		5.7
f		5.9
g		6.1
h		7.0
k		7.3
l		7.7
m		
n		
o		

Wrong Exp
See below

Seq 5

			Cu	Magn
a	3.1 2.9		5.94	9.04
b	3.7 3.5		5.97	9.67
c		4.9	5.97	10.87
d		5.3	5.94	11.24
e		5.7	5.92	11.62
f		59	5.90	11.80
g		61	5.87	11.97
h		67	5.80	12.50
k		72	5.71	12.91
l		75	5.66	13.16
l'		83	5.52	13.82
m		81	5.54	13.64
m'		90	5.40	14.40
n		87	5.45	14.15
o		90	5.40	14.40
p		93	5.33	14.63

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Sequences Near N Pole

Sc M — January 16, 1920

MT 975 Exp B Pole

	Sc 1	Sc 2
8	2.3 2.1	
9	2.7 2.5	
10	3.1 2.9	
11	3.6 3.4	
12	3.9 3.7	
13		4.3
14		4.7
15		5.0
16		5.5
17		5.7
18		6.1
19		6.5
20		6.9
21		7.3
22		7.5
23	w.s	7.8 ~~8.5~~
25		8.5
26		8.9
27		9.3
28		9.8

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Sc V

Sequences Near N Pole

January 29, 1920

Mc 7975 Pole (Exp B)

	Sc 1	Sc 2	Page 150 1	Mean		Diff.
8	2.1 2.0		2.3	2.10	0 0	6.13
9	2.6 2.5		2.6	2.60	0 0	6.23
10	2.8 2.7		2.8	2.80	0 0	6.22
11	3.3 3.2		3.4	3.35	1 0	6.20
12	3.6 3.5		3.6	3.60	0 0	6.26
13		4.0	4.3	4.15	2 1	6.15
14		4.5	4.7	4.60	1 1	6.05
15		5.0	5.0	5.00	0 0	6.08
16		5.4	5.4	5.40	0 0	6.00
17		5.7	5.7	5.70	0 0	5.93
18		6.3	6.2	6.25	1 0	5.81
19		6.7	6.5	6.60	1 0	5.82
20		6.9	6.8	6.85	1 0	5.88
21		7.2	7.1	7.15	0 1	5.81
22		7.5	7.5	7.50	0 0	5.69
23		7.7	7.7	7.70	0 0	5.64
24		7.9	7.9	7.90	0 0	5.74
25		8.3	8.3	8.30	0 0	5.57
26		8.8	8.7	8.75	0 1	5.58
27		9.3	9.2	9.25	1 0	5.44
28		9.8	9.8	9.80	0 0	5.31

Sequences Near N Pole
January 19, 1920

Se V

Me 7975

Seq I

	Sc 1	Sc 2	Cu	Magn
a	36 3.5		6.20	9.80
b	38 3.7 385 01	3.9	6.10	9.95
c		4.2	6.16	10.36
d		4.5	6.13	10.63
e		4.7	6.11	10.81
f		5.0	6.06	11.06
g		5.5	6.00	11.50
h		5.8	5.96	11.76
k		6.2	5.90	12.10
l		7.0	5.78	78 12.87
m		7.2	5.75	12.95
n		7.5	5.71	13.21
o		8.2	5.60	13.80
p		8.7	5.52	14.22

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Seq S

	Sc 1	Sc 2	Cu	Magn
a	34 3.3		6.21	9.61
b	36 3.5		6.20	9.80
c		4.5	6.12	10.62
d		4.7	6.11	10.81
e		5.0	6.06	11.06
f		5.3	6.03	11.33
g		5.5	6.00	11.50
h		6.0	5.93	11.93
k		6.1	5.92	12.02
l		6.4	5.88	12.28
m		6.85 7.0	5.81 67	12.66
n		7.3	5.74	13.04
o		8.10 8.5	5.53 5.57	14.13
p		9.5	5.40	14.90

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Sequences Near N Pole
January 19, 1920

Sc V

MC 7975

Seq U

	Sc 1	Sc 2	Cu	Magn
a	3.6 3.5		6.20	9.80
b		4.2	6.15	10.35
c		4.3	6.14	10.44
d		4.6	6.12	10.72
e		5.2	6.04	11.24
f		5.5	6.00	11.50
g		5.9	5.94	11.84
h		6.2	5.90	12.10
k		6.7	5.83	12.53
l		6.9	5.80	12.70
m		7.5	5.72	13.22
n		7.7	5.68	13.38
o		8.3	5.58	13.88
p		9.60 9.7? 9.5	5.40	15.00

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Seq 5

	Sc 1	Sc 2	Cu	Magn
a	2.8 2.7		6.20	9.00
b	3.6 3.5		6.20	9.80
c		4.9	6.08	10.98
d		5.20 5.3	6.04 5.1	11.24
e		5.5	6.00	11.50
f		5.7	5.98	11.68
g		6.0	5.93	11.93
h		6.7	5.83	12.53
k		7.1	5.77	12.87
l'		7.5	5.72	13.22
l		8.1	5.62	13.72
m		8.0	5.63	13.63
m'		9.0	5.46	14.46
n		8.5	5.53	14.03
o		9.1	5.45	14.55
p		9.3	5.43	14.73

Images Mean

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Se V

Sequences Near V Oph

January 19, 1920.

MC 7975 Oph Exp 1 B

	Sc 1	Sc 2
8	$^{2.1}$ 2.0	
9	$^{2.6}$ 2.5	
10	$^{2.8}$ 2.7	
11	$^{3.4}$ 3.3	
12	$^{3.6}$ 3.5	~~3.5~~
13		4.3
14		4.7
15		5.0
16		5.4
17		5.7
18		6.2
19		6.5
20		6.8
21		7.1
22		7.5
23		7.7
24		7.9
25		8.3
26		8.7
27		9.2
28		9.8

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12:20

11:30
SeV

Sequences Near N Pole
January 20, 1920

Mc 7975 Pole Exp A

	Sc1	Sc2	Page 154	Mean		Diff
8	$^{2.3}$ 2.2		2.4	2.35	1 0	5.88
9	$^{3.0}$ 2.9		3.0	3.00	0 0	5.83
10	$^{3.3}$ 3.2		3.2	3.25	1 0	5.77
11	$^{3.6}$ 3.5		3.6	3.60	0 0	5.95
12		3.8	3.9	3.85	0 1	6.01
13		4.5	4.3	4.40	1 1	5.90
14		4.9	4.7	4.80	1 1	5.85
15		5.2	5.2	5.20	0 0	5.88
16		5.5	5.5	5.50	0 0	5.90
17		5.7	5.8	5.75	1 0	5.88
18		6.3	6.3	6.30	0 0	5.76
19		6.7	6.7	6.70	0 0	5.72
20		7.0	7.0	7.00	0 0	5.73
21		7.3	7.2	7.25	1 0	5.71
22		7.5	7.5	7.50	0 0	5.69
23		7.7	7.8	7.75	1 0	5.59
24		8.0	8.0	8.00	0 0	5.64
25		8.3	8.2	8.25	1 0	5.62
26		8.7	8.7	8.70	0 0	5.63
27		9.1	9.0	9.05	1 0	5.64
28		9.7	9.7	9.70	0 0	5.41
29		7	,	,	,	,

Sequences Near N. Pole

January 20, 1920

ScV

Seq Po

MC 7975

	Sc1	Sc2	Cu.	Magn.
a		4.2	5.93	10.13
b		4.5	5.91	10.41
c		5.5	5.88	11.38
d		5.5	5.88	11.38
e		6.1	5.82	11.92
f		6.3	5.80	12.10
g		6.5	5.79	12.29
h		7.3	5.71	13.01
k		7.60 7.5	5.67 7.7	13.27
l		7.9	5.65	13.55
m		8.7	5.60	14.30
n		7	.	
o				

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Seq V

	Sc1	Sc2	Cu.	Magn.
a	36 3.5		5.92	9.52
b		4.2	5.93	10.13
c		4.5	5.91	10.41
d		5.1	5.90	11.00
e		5.3	5.89	11.19
f		6.3	5.80	12.10
g		6.3	5.80	12.10
h		~~6.5~~	5.76 6.7	12.46
k		7.0	5.74	12.74
l		7.3	5.71	13.01
m		7.7	5.67	13.37
n		8.0	5.63	13.63
o		8.7	5.60	14.30
p		9.7	5.52	15.22

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Sequences Near N Pole
January 20, 1920

Sc V

Seq W MC 7975

	Sc 1	Sc 2	Civ	Magn
a	37 3.6		5.95	9.85
b		3.9	5.93	9.83
c		4.1	5.93	10.03
d		4.7	5.91	10.61
e		5.1	5.89	10.99
f		6.0	5.83	11.83
g		6.2	5.82	12.02
h		6.3	5.80 p	12.10
k		6.60 7.6.7	5.76 6.5	12.36
l		7.5	5.69	13.19
m		7.7	5.67	13.37
n		8.0	5.63	13.63
o		8.60 8.5	5.61 87	14.21
p		9.7	5.52	15.22

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Seq S

	Sc 1	Sc 2	Civ	Magn
a	26 2.5			
b		3.2	5.85	9.05
c		4.1	5.93	10.03
d		4.3	5.92	10.22
e		5.3	5.89	11.19
f		5.7	5.86	11.56
g		5.9	5.84	11.74
h		6.5	5.79	12.29
k		6.9	5.74	12.64
l		7.5	5.69	13.19
l'		+p		
m		+p		
m'		8.9	5.59	14.49
n		9.0	5.57	14.57
o		9.0	5.57	14.57
p		+p		

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Sequences Near N Pole

Sc V

January 20, 1920

MC 7975 Pole Expt II

	Sc 1	Sc 2
8	^{24} 2.3	
9	^{30} 2.9	
10	^{32} 3.1	
11	^{36} 3.5	
12		3.9
13		4.3
14		4.7
15		5.2
16		5.5
17		5.8
18		6.3
19		6.7
20		7.0
21		7.2
22		7.5
23		7.8
24		8.0
25		8.2
26		8.7 pe
27		9.0
28		9.7

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~~12.30~~
11.30

Sequences Near N Pole

Se V

January 22, 1920

10:45 MC 7975 Exp A Pole

	Sc 1	Sc 2	Page 160	Mean		Diff
8^{24}	2.3		2.2	2.25	1 0	5.98
9^{29}	2.8		2.8	2.80	0 0	6.03
10^{31}	3.0		3.0	3.00	0 0	6.02
11^{36}	3.5		3.5	3.50	0 0	6.05
12		3.9	3.9	3.90	0 0	5.96
13		4.2	4.3	4.25	0 1	6.05
14		4.7	4.7	4.70	0 0	5.95
15		5.1	5.3	5.20	1 1	5.88
16		5.5	5.5	5.50	0 0	5.90
17		5.9	5.7	5.80	1 1	5.83
18		6.5	6.5	6.50	0 0	5.56
19		6.7	6.7	6.70	0 0	5.72
20		7.0	7.0	7.00	0 0	5.73
21		7.3	7.2	7.25	1 0	5.71
22	W.S	7.5 ~~7.7~~	7.5	7.50	0 0	5.69
23	WS	7.7 ~~8.0~~	7.7	7.70	0 0	5.64
25		8.3	8.2	8.25	1 0	5.62 ~~5.39~~
26		8.7	8.7	8.70	0 0	5.63
27		9.1	9.2	9.15	1 0	5.54
28		9.7	9.75	9.72	02 03	5.39

Sequences Near N Pole

January 22, 1920

Sc V

MC 7975

Seq I

	Sc 1	Sc 2	Cm	Magn
a	~~3.5~~ 3.6		6.00	9.60
b		4.0	5.99	9.99
c		4.3	5.98	10.28
d		4.5	5.96	10.46
e		4.9	5.92	10.82
f		5.1	5.91	11.01
g		5.5	5.86	11.36
h		5.9	5.82	11.72
k		6.3	5.78	12.08
l		7.0	5.72	12.72
m		7.3	5.69	12.99
n		7.5	5.66	13.16
o		8.0	5.62	13.62
p		8.5	5.57	14.07

Copied on sheet

Sequences Near N Pole

January 22, 1920

DeV

Seq S

Mc 7975

	Sc 1	Sc 2		
a	33 3.2		5.98	9.28
b		3.7	5.99	9.69
c		4.3	5.98	10.28
d		4.5	5.96	10.46
e		5.0	5.92	10.92
f		5.2	5.90	11.10
g		5.5	5.86	11.36
h		6.1	5.80	11.90
k		6.3	5.79	12.09
l		6.5	5.77 p	12.27
m		7.0	5.72	12.72
n		7.3	5.70	13.00
o		8.3	5.58	13.88
p		9.5	5.51	15.01

Seq. near edge of Pl.

Copied on Sheet.

Sequences Near N Pole
January 22, 1920

ScV

Seq U MC 7975

	Sc 1	Sc 2	Cu	Magn
a	3.7 3.6		6.00	9.70
b		4.3	5.98	10.28
c		4.5	5.96	10.46
d		4.5?	5.96	10.46?
e		5.1	5.91	11.01
f		5.3	5.89	11.19
g		5.9	5.82	11.72
h		6.1	5.80	11.90
k		6.5	5.77	12.27
l		6.9	5.73	12.63
m		7.5	5.67	13.17
n		7.8	5.63	13.43
o		8.5	5.58	14.08
p		9.8	5.59	15.39

Seq near edge of Pl.

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Sequences Near N Pole
January 22, 1920

Sc V
Seq 5

Mc 7975

	Sc 1	Sc 2		
a	27? 2.5		6.01	8.71
b	Too near edge		.	.
c		4.1	5.99	10.09
d		4.3	5.96	10.26
e		5.0	5.91	10.91
f		5.3	5.89	11.19
g		5.7	5.84	11.54
h		6.1	5.80	11.90
k		6.4	5.77	12.17
l				
l'				
m				
m'				
n				
o				
p				

Images large + sharp not comp with scale

Copied on Sheet

Sequences Near N Pole
January 22, 1920

ScV

Mc 797s Pole Ex A

Day

	Sc 1	Sc 2	
8	2.2 2.1		
9	2.8 2.7		
10	30 2.9		
11	3.5 3.4		
12		3.9	
13		4.3	
14		4.7	
15		5.3	
16		5.5	
17		5.7	
18		6.5	
19		6.7	
20		7.0	
21		7.2	
22		7.5	
23		7.7	
25		8.2	
26		8.7	
27		9.2	—
28		9.45 9.8	9.7

Copied 155

12:10

10.30

DeV

Sequences Near N Pole

January 23, 1920

MC 16568 Pole (Series 980)

	Se 1		Se 3	MC 16573 p. 169	Mean	Diff.
8	1.6 1.5			1.5	1.50	6.73
9	2.2 2.1			2.2	2.20	6.63
10	2.4 2.3			2.3	2.35	6.67
11	3.0 2.9			2.9	2.95	6.60
12	3.3 3.2			3.2	3.25	6.61
13	3.6 3.5			3.6	3.60	6.70
14			3.8	3.8	3.80	6.85
15			4.3	4.3	4.30	6.78
16			4.7	4.7	4.70	6.70
17			5.0	5.0	5.00	6.63
18			5.7	5.7	5.70	6.36
19		-1	6.1	6.0	6.05	6.37
20		-2	6.5	6.3	6.40	6.33
21		-1	6.8	6.7	6.75	6[illegible]
22		0	7.0	7.0	7.00	6 ~~*~~.19
23		0	7.2	7.3	7.30	6.04
24		+1	7.5	7.6	7.55	6.09
25		-1	8.0	7.9	7.95	5.92
26		+1	8.4	8.5	8.45	5.88
27		+1	8.9	9.0	8.95	5.74
28			9.3	9.5	9.40	5.71
29			9.8	9.9	9.85	5.81

$\frac{3-5}{9} = -.02$

Sequences Near N Pole

S.eV

January 23, 1920

MC 16569

Seq d

	Sc 1	Sc 2	Cw	Magn
a	13 1.2		.	.
b	24 2.3		6.6~~4~~ 3	9.0~~4~~ 3
c	26 2.5		6.64	9.24
d	26 2.5		6.64	9.24
e	27 2.6		6.65	9.35
f	30 2.9		6.67	9.67
g	32 3.1		6.69	9.89
h		3.9	6.74	10.64
k		4.5	6.72	11.22
l		5.0	6.62	11.62
m		5.4	6.52	11.92
n		6.1	6.37	12.47
o		6.2	6.35	12.55
p		6.5	6.28	12.78
q		7.0	6.15	13.15
r		6.9	6.20	13.10
s		7.3	6.09	13.39
t		7.8	5.98	13.78
u		7.8	5.98	13.78
w		8.0	5.93	13.93
x		8.5	5.84	14.34

Copied 53.169

Sequences Near N Pole

DeV

January 23, 1920

MC 16570

Seq D

	Sc 1	Sc 2	Cw	Magn
a	3.0 2.9		6.67	9.67
b	3.5 3.4		6.71	10.21
c	4.2 4.1 425 01	4.3	6.74	10.99
d		4.5	6.72	11.22
e		5.1	6.59	11.69
f		5.5	6.50	12.00
g		6.0	6.40	12.40
h		6.9	6.20	13.10
k		7.5	6.05	13.55
l		7.8	5.98 ~~[illegible]~~	13.78
m		8.40 8.3	5.86 8.5	14.26
n		8.9	5.79	14.69
l' * ~~o~~		8.1	5.92	14.02

Copied 53:93

* The wrong star may have been measured for "o" probably was. The line was uncertain

Star measured was l'

Sequences Near N Pole

Se V

January 23, 1920

MC 16570

Seq α

Seq near edge of Pl.

	Se 1	802	Cu	
a	14 1.3		.	.
b	24 2.3		6.52	8.92
c	26 2.5		6.56	9.16
d	26' 2.5		6.56	9.16
e	28 2.7		6.62	9.42
f	32 3.1		6.70	9.90
g	31 3.0		6.68	9.78
h		4.0	6.79	10.79
k		4.7	6.72	11.42
l		5.1	6.65	11.75
m		5.5	6.58	12.08
n		6.0	6.45	12.45
o		6.2	6.40	12.60
p		6.7	6.29	12.99
q		7.0	6.22	13.22
r		6.9	6.23	13.13
s		7.5	6.08	13.58
t		7.9	5.98	13.88
u		7.8	6.00	13.80
w		8.20 8.3	5.90 8.1	14.10
x		8.7	5.79	14.49

Copied 53:169

Sequences Near N Pole
January 23, 1920

Sc V

MC 16571

Seq Q

	Sc 1	Sc 2	Ca	Magn
a	3.2 3.1		6.69	9.89
b	3.4 3.3		6.70	10.10
c	4.0 3.9 400	4.0	6.74	10.74
d		4.2	6.74	10.94
e		4.4	6.72	11.12
f		5.1	6.60	11.70
g		5.60 5.5	6.48 5.7	12.08
h		6.0	6.40	12.40
k		6.3	6.32	12.62
l		6.8	6.20	13.00
m		7.3	6.09	13.39
n		7.8	5.97	13.77
o		7.9	5.96	13.86
p		8.5	5.85	14.35
q		9.0	5.77	14.77

Copied 53:205

Plot: 39

Sequences Near N Pole

Dec

January 23, 1920

Mc 15571 Pole

	Sc1	Sc2	Diff
8	Off pl		.
9	" "		.
10	2.5 2.4		6.52
11	2.9 2.8		6.65
12	3.2 3.1		6.66
13	3.5 3.4		6.80
14		3.9	6.75
15		4.3	6.78
16		4.7	6.70
17		5.0	6.63
18		5.5	6.56
19		6.0	6.42
20		6.3	6.43
21		6.7	6.26
22		7.0	6.19
23		7.3	6.04
25		8.0	5.87
26		8.5	5.83
27		8.9	5.79
28		9.3	5.61 9.5
29		~~9.8~~	~~7~~
24		7.5	6.14

Sequences Near N Pole
January 23, 1920

Se V

M 16572

Seq γ

		Sc 1	Sc 2	Cu.	Magn
	a	19 1.8		6.67	8.47
	a'	15 1.4		.	.
	b	31 3.0		6.68	9.78
	b'	32 3.1		6.69	9.89
	c	36 3.5		6.71	10.31
No "d"	~~d~~				
	e	4.2 4.1 4.25 01	4.3	6.73	10.98
	f		4.9	6.64	11.54
	g		5.0	6.62	11.62
	h		5.3	6.54	11.84
	k		5.7	6.45	12.15
	l		5.9	6.42	12.32
	m		5.7	6.45	12.15
	n		5.9	6.42	12.32
	o		6.5	6.29	12.79
	p		7.1	6.14	13.24
	q		7.3	6.09	13.39
	r		7.9	5.95	13.85

Copied 53; 177

Sc V

Sequences Near N Pole
January 23, 1920

MC 16572

Seq Q

Seq near edge of Pl.

	Sc 1	Sc 2	Cu	Magn
a	3.1 3.0		6.68	9.78
b	3.4 3.3		6.73	10.13
c	4.0 3.9 4.00 00	4.0	6.79	10.79
d		4.3	6.77	11.07
e		4.5	6.74	11.24
f		5.0	6.66	11.66
g		5.5	6.58	12.08
h		5.9	6.49	12.39
k		6.3	6.39	12.69
l		6.9	6.23	13.13
m		7.3	6.13	13.43
n		7.8	6.00	13.80
o		8.0	5.95	13.95
p		8.7	5.79	14.49
q		9.1	5.71	14.81

Copied 53:205

Sequences Near N Pole
January 23, 1920

Sc V

MC 16573 Pole

	Sc1	Sc2
8	1.5 1.4	
9	2.2 2.1	
10	2.3 2.2	
11	2.9 2.8	2
12	3.2 3.1	
13	3.6 3.5	
14		3.8
15		4.3
16		4.7
17		5.0
18		5.7
19		6.0
20		6.3
21		6.7
22		7.0
23		7.3
24		7.6
25		7.9
26		8.5
27		9.0
28		9.5
29		9.9

Copied p 161

Sequences Near N Pole

January 23, 1920

Se V

Seq. D

MC 15573

	Se 1	Se 2	Cu	Magn
a	3.1 3.0		6.68	9.78
b	3.6 3.5		6.75	10.35
c		4.3	6.77	11.07
d		4.7	6.72	11.42
e		5.2	6.63	11.83
f		5.5	6.58	12.08
g		6.0	6.46	12.46
h		6.7	6.29	12.99
k		7.3	6.13	13.43
l		7.8	6.00	13.80
m		8.3	5.89	14.19
n		8.7	5.79	14.49
* o		8.9	5.74	14.64

Copied 53:93

* Measured fainter star for "o" on this plate

12.50

9.45
Sc V

Sequences Near N Pole
January 26, 1920

MC 16568

Seq B

	Sc1	Sc2	Diff B 53:87	Diff p.86
a		3.8	6.55	6.51 ~~3.76~~
b		4.0	6.79	6.78 ~~3.99~~
c		4.7	6.63	6.64
d		4.7	6.65	6.57
e		5.60 5.7	6.29 5.5	6.32
f		5.9	6.17	6.14
g		6.3	6.17	6.12
h		7.1	6.12	6.07
k		7.5	5.92	5.98
l		8.0	5.79	5.83
m		8.7	5.62	5.74
n		9.3	.	5.76

Seq G

For reducing
Seq N on
MC 16571
page 174
E on 16570
O on 16572

	Sc1	Sc2	Diff 53:107	Diff 53:106	~~Plot 47~~ Curve G 16568
a	3.6 3.5	.	6.46	6 3 ~~5.58~~	~~6.58~~
b		3.9	6.58	6.58	
c		4.3	6.62	6.61	
d		4.5	6.54	6.50	
e		4.6	6.64	6.64	
f		~~5.5~~	6.26 5.3	6.31 ~~5.35~~	
g		5.7	6.34	6.34	
h		6.1	6.30	6.29	
k		6.5	6.34	6.40	
l		7.8	5.86	5.91	
m		7.90 7.8	6.00 8.0	6 ~~8~~.12	
n		8.9	5.46	5.71	
o		9.3	5.45	6.14	
p		7		.	

Sequences Near N Pole
January 26, 1920

Sc V

MC 16570

Seq C

Reduced from B MC16568 I 16571

Plot 47

	Sc 1	Sc 2	Cu	B Magn			Cu	I Magn	May 1920	
a	3.1 3.0		.	.	6.80 e	9.90 e	6.73	9.83		
b		4.0	6.76	10.76			6.78	10.78		
c		4.1	6.75	10.85			6.77	10.87		
d		4.3	6.71	11.01			6.72	11.02		
e		4.9	6.55	11.45			6.54	11.44		
f		5.3	6.47	11.77			6.41	11.71		
g		5.3	6.47	11.77			6.41	11.71		
h		5.7	6.39	12.09			6.32	12.02		
k		6.7	6.12	12.82			6.13	12.83		
l		7.1	6.01	13.11			6.05	13.15		
m		7.7	5.85	13.55			5.94	13.64		
n		8.3	5.71	14.01			5.86	14.16	54	
o		9.2	5.50	14.70			,	,	5.78 e	14.98 e
p		7.8?	.	.			.	,	5.72 e	15.52 ? e

Copied 53:89 ✓

Copied 53:89 ✓

Seq E

Reduced from G MC16568 and N 16571

	Sc 1	Sc 2	Cu. From G	Magn	May 1920 Cu	Magn	Cu N	Magn	May 1920 N Cu	Magn
a	3.2 3.1		.	.	6.58 e	9.78 e	6.60	9.80		
b		3.9	6.56	10.46			6.66	10.56		
c		3.1	.	.			6.59	9.69		
d		4.2	6.58	10.78			6.68	10.88		
e		4.7	6.54	11.24			6.70	11.40		
f		5.1	6.50	11.60			6.69	11.79		
g		5.8	6.37	12.17			6.55	12.35		
h		6.3	6.28	12.58			6.43	12.73		
k		7.0	6.10	13.10	6.17	13.17	6.23	13.23		
l		7.1	6.08	13.18	6.16	13.26	6.21	13.31		
m		8.0	5.81	13.81	6.07	14.07	5.94	13.94	6.03	14.03
n		8.3	5.72	14.02	6.03	14.33	5.85	14.15	5.99	14.29
o		9.0 9.40	5.50	14.50	5.98	14.98	5.60	14.60	5.88	8.8
p		9.3 9.5	5.36	14.76	5.97	15.37	5.44	14.84	5.83	15.23

Copied 53:97 ✓

Copied 53:97 ✓

Plat 39

Sequences Near N Pole
January 26, 1920

Sc V

Mc 1657 Pole

	Sc 1	Sc 2	Diff
8	1.5 1.4		6.73
9	2.2 2.1		6.63
10	2.4 2.3		6.62
11	2.9 2.8	~~2~~	6.65
12	3.3 3.2		6.56
13	3.6 3.5 370 00	3.7	6.60
14		4.1	6.55
15		4.5	6.58
16		4.9	6.50
17		5.2	6.43
18		5.9	6.16
19		6.1	6.32
20		6.4	6.33
21		6.7	6.26
22		6.9	6.29
23		7.2	6.14
25		8.0	8.7 ~~5.64~~
26		8.5	5.82
27		8.9	5.79
28		9.5	5.61
29		9.9	5.76

Sequences Near N Pole
January 26, 1920

Set

Seq I

For reducing
C on 16569 70
R on 16572

	MC 16571 Sc 1	Sc 2	Diff B53:155	Diff p 154
a	3.1 30 3.0 2.9		6.65	6.71
b	3.2 3.1		6.83	6.78
c	3.6 3.5		6.74	6.76
d	3.8 3.7		6.79	6.78
e		4.0	6.84	6.76
f		4.3	6.84	6.82
g		5.0	6.52	6.49
h		5.3	6.41	6.40
k		6.0	6.20	6.20
l		6.5	6.12	6.17
m		6.8	6.22	6.15
n		7.2	6.12	6.12
o		7.80 7.9	5.90 7.7	5.91
p		8.3	5.76	5.78

Seq II

To reduce
E on 16570
Q on 16572

			Diff B53:135	May 1920	Plt 47	Aver G MC 16568 Plt 47	g Magn
a	3.9 3.8 3.90	3.9	6.55	6.55		6.58	10.48
b		4.3	6.79	6.76		6.57	10.87
c		4.7	6.72	6.66		6.53	11.23
d		5.2	6.72	6.65		6.45	11.65
e		5.80 5.9	6.59 5.7	6.57		6.34	12.14
f		6.4	6.29	6.33		6.24	12.64
g		7.0	6.02	6.07		6.17	13.17
h		7.3	6.11	6.13		6.13	13.43
k		7.5	6.13	6.16		6.10	13.60
l		7.9	6.19	6.24		6.07	13.97
m		8.7	5.73	5 6.92		6.00	14.70
n		9.1	5.68	5.86		5.98	15.08
o		9.8	5.20	5.74		5.94 e	15.74 e
~~x~~							

Sequences Near N Pole

ScV January 26, 1920

MC 16571

Seq γ

Reduced from P-16570

Copied 53:177

	Sc 1	Sc 2		Cu	Magn
a	2.0 1.9			6.66	8.66
b	3.1 3.0			6.60	9.70
c	3.6 3.5			6.56	10.16
~~d~~					
e		4.65 4.8	4.5'	6.50	11.15
f		5.0		6.46	11.46
g		5.1		6.45	11.55
h		5.3		6.44	11.74
k		5.7		6.40	12.10
l		6.0		6.36	12.36
m		5.7		6.40	12.10
n		6.0		6.36	12.36
o		6.3		6.32	12.62
p		6.8		6.22	13.02
a'	1.6 1.5			6.67	8.27
b'	3.3 3.2			6.60	9.90
q		7.1		6.15	13.25
r		7.8		6.00	13.80

Sequences Near N Pole

January 26, 1920

Sc V

MC 16572

Copied 53, 145

Seq R

Reduced from B-MC 16568 Plt 47

J-16571

	Sc 1	Sc 2		Cu	Magn	J-16571 Cu	Magn
a	3.1 3.0			6.78^e	$.4.88^e$	6.74	9.84
b	3.4 3.3			6.74^e	10.14^e	6.76	10.16
c		3.80 3.9	3.7	6.80	10.60	6.79	10.59
d		4.2		6.73	10.93	6.74	10.94
e		4.7	scr.	6.62	11.32	6.61	11.31
f		4.9		6.56	11.46	6.54	11.44
g		5.1		6.52	11.62	6.48	11.58
h		5.60 5.5	5.7	6.41	12.01	6.34	11.94
k		5.9		6.33	12.23	6.29	12.19
l		6.5		6.18	12.68	6.17	12.67
m		6.9		6.05	12.95	6.10	13.00
n		7.5		5.90	13.40	5.98	13.48
o		8.0		5.78	13.78	5.90	13.90
p		9.2		5.50	14.70 E	5.87	15.07

5.77^e 14.97^e ✓

Copied 5 *3, 145 ✓

Seq O

Reduced from N-MC 16571 Plt 47

from G-MC 16568

			Cu	magn	May, 1920 N cu	magn	Cu	g (e)	May 1920 Cu	magn
a	3.1 3.0		6.59	9.69			.	.	6.58^e	9.68^e
b	3.3 3.2		6.61	9.91			.	.	6.58	9.88^e
c	3.6 3.5		6.64	10.24			.	.	6.58^e	10.18^e
d	3.8 3.7 3.80	3.8	6.65	10.45			6.55	10.35		
e		4.40 4.5	6.70 4.3	11.10			6.56	10.96		
f		4.3	6.69	10.99			6.56	10.86		
g		4.5	6.70	11.20			6.56	11.06		
h		4.9	6.70	11.60			6.52	11.42		
k		5.3	6.67	11.97			6.46	11.76		
l		5.8	6.56	12.36			6.37	12.17		
m		6.0	6.50	12.50			6.33	12.33		
n		6.3	6.43	12.73			6.27	12.57		
o		7.0	6.23	13.23			6.10	13.10	6.17	13.17
p		7.7	5.97	13.87	6.05	13.95	5.85	13.75	6.07	13.97
q		8.8?	5.67	14.47	5.90	14.80?	5.55	14.35	6.00	14.80?

Copied 53, 137 ✓

Copied 53, 137 ✓

11-30
SeV

Sequences Near N Pole
January 27, 1920

MC 15996 Pl

Seq G		Sc 1 Sc 2	Cu.	copied BK 53,98 Magn	Diff BK53,107 Feb.27
Reduced from MC15998 (Pole)	a	5.5	4.78	10.28	4.57
	b	6.0	4.61	10.61	4.48
	c	6.7	4.36	11.06	4.22
	d	6.9	4.26	11.16	4.14
	e	7.20 7.1	4.11 7.3	11.31	4.04
	f	7.7	3.85	11.55	3.86
	g	8.7	3.40	12.10	3.34
	h	9.1	3.26	12.36	3.30
	k	n.s.?			

Seq F			Cu	Copied 53.101 Magn
Reduced from MC 16000 (Pole)	a	5.5	4.81	10.31
	b	6.1	4.64	10.74
	c	6.3	4.56	10.86
	d	6.7	4.42	11.12
	e	7.0	4.27	11.27
	f	7.3	4.14	11.44
	g	8.1	3.70	11.80
	h	8.3	3.60	11.90
	k	9.0	3.30	12.30
	l	9.8?	3.00	12.80?

Sequences Near N Pole
January 27, 1920

ScV

Seq I

For Reducing Seqs on 15998

MC 15996

	Sc1	Sc2	Diff B53: 155 ~~Cor~~ (Feb. 27
a		4.40 4.5 4.3	5.30
b		4.6	5.43
c		5.3	5.04
d		5.7	4.89
e		6.1	4.74
f		6.7	4.44
g		7.9	3.62
h		8.2	3.51
k		8.9	3.30
l		n.s	

Seq V

Sequences Near N. Pole

January 27, 1920

Mc 15998 Pole

	Sc1	Sc2	MC K18,000	Mean		Diff	Diff
8	^{30} 2.9		3.1	3.05	0 1	5.18	5.23
9	^{36} 3.5		.	3.60	a .	5.23	5.23
10		3.8	3.8	3.80	0 0	5.22	5.22
11		4.5	4.5	4.50	0 0	5.05	5.05
12		4.9	5.0	4.95	$\underline{1}$ 0	4.91	4.96
13		5.5	5.5	5.50	0 0	4.80	4.80
14		6.1	5.9	6.00	1 $\underline{1}$	4.65	4.55
15		6.7	6.7	6.70	0 0	4.38	4.38
16		7.3	7.2	7.25	1 0	4.15	4.10
17		8.0	7.9	7.95	0 $\underline{1}$	3.68	3.63
18		8.7	8.7	8.70	0 0	3.36	3.36
19		9.1	9.1	9.10	0 0	3.32	3.32
20		7	9.8:	9.80	. $\underline{\underline{a}}$	2.93	

Seq G

Reduced from Mc 16000 (Pole)

Copied BK53,198

			Cu.	Magn	Diff. B53,107 Feb 24
a		5.4	~~4.84~~	10.24	4.69
b		5.9	4.70	10.60	4.58
c		6.7	4.41	11.11	4.22
d		6.9	4.33	11.23	4.14
e		7.1	4.24	11.34	4.14
f		7.5	4.01	11.51	4.06
g	w.s	$\overset{5}{8.3}$	3.50	12.00	3.54
h		9.1	3.26	12.36	3.30
k		9.7?	3.03	$\underline{12.73}$?	3.14

Sequences Near N. Pole
January 27, 1920

Sc V

MC 15998

Seq D

Reduce with
J on 15996

	Sc 1	Sc 2	Cu	Magn
a		4.3	5.44	9.74
b		4.7	5.30	10.00
c		5.8	4.84	10.64
d		6.2	4.62	10.82
e		6.9	4.26	11.16
f		7.2	4.10	11.30
g		7.8	3.76	11.56
h		8.5	3.40	11.90
k		9.0	3.15	1215
l		F	.	.

Copied 53:207

MC 16000

Seq J

Reduced from
MC 15998 (Pole)

Copied 53,209

		Cu.	Magn
a	4.5	506	9.56
b	4.8	4.97	9.77
c	5.5	4.79	10.29
d	6.1	4.59	10.69
e	6.3	4.50	10.80
f	6.7	4.35	11.05
g	7.7	3.85	11.55
h	8.0	3.67	11.67
k	8.9	3.33	12.23
l	ns	.	.

Sequences Near N Pole
January 27, 1920

Seq V

MC 16000 Pole ~~Copied p. 179~~

	Sc 1	Sc 2	Diff
8.32	3.1		5.03
9	Off film		.
10		3.8	5.22
11		4.5	5.05
12		5.0	4.86
13		5.5	4.80
14		5.9	4.75
15		6.7	4.38
16		7.2	4.20
17		7.9	3.73
18		8.7	3.36
19		9.1	3.32
20		9.8?	2.93

MC 16002

Seq Q

Reduced from MC 15998 (Pole)

			Cu	Copied 59,141 Magn
a	5.3		485	10.15
b	5.80 5.9	5.7	469	10.49
c	6.40 6.3	6.5	446	10.86
d	6.80 6.9	6.7	431	11.11
e	7.3		406	11.36
f	7.9		374	11.64
g	8.1		362	11.72
h	9.20 9.1	9.3	323	12.43
K	9.5?		314	12.64?

Sequences Near N Pole
January 27, 1920

Sc V

MC 16003

Seq G

Reduced from MC15998 (Pole)

	Sc 1	Sc 2	Cu	Copied 53,198 Magn
a		5.5	4.78	10.28
b		6.0	4.61	-10.61
c		6.7	4.36	11.06
d		7.0	4.21	11.21
e		7.3	4.06	11.36
f		7.7	3.85	11.55
g		8.7	3.40	12.10
h		9.0	3.30	12.30
k		7	,	,

Seq F

Reduced from MC 16000 (Pole)

	Sc 2	Cu.	Copied 53,101 Magn
a	5.5	4.82	10.32
b	6.1	4.64	10.74
c	6.3	4.56	10.86
d	6.9	4.33	11.23
e	7.1	4.24	11.34
f	7.3	4.13	11.43
g	8.0	3.74	11.74
h	8.2	3.64	11.84
k	9.0	3.30	12.30
l	9.8	3.00	12.80

1:40

~~to~~

Sc V

Sequences Near N Pole

January 29, 1920

MC 15997 Pole

	Sc 1	Sc 2	Diff
8	3.0 2.9		5.23
9	3.6 3.5		5.23
10	3.8 3.7 3.80 00	3.8	5.22
11		4.5	5.05
12		4.90 4.8 5.0	4.96
13		5.5	4.80
14		6.1	4.55
15		6.8	4.28
16		7.4	4.00
17		8.0	3.63
18		8.9	3.16
19		9.5	2.92
20		9.9	2.83

Seq B

For reducing Seq V on 15999 U on 16001

		Diff Magn's ~~fr~~ B-153:87	Plate 45
a	5.5	4.85	
b	6.1	4.69	
c	7.1	4.23	
d	7.0	4.35	
e	8.1	3.79	
f	8.1	3.97	
g	8.7	3.77	
h	n.s.		

Sequences Near N. Pole
January 29, 1920

Sc. Y

Mc 15997

Seq Y

Reduce with P on 15997

copied 53:198

	Sc 1	Sc 2	Cu.	Magn.
a		5,4	4.69	10.09
b		5,9	4.52	10.42
c		6,7	4.23	10.93
d		6,9	4.15	11.05
e		7,2	4.02	11.22
f		7,7	3.82	12.52
g		8,7	3.47	12.17
h		9,3	3.26	12.56
K		ns	.	

Mc 15999

Seq I

Reduce with P on 15997

Copied 53,209

a	4,5	5.06	9.56
b	5,2	4.89	10.09
c	5,7	4.72	10.42
d	6,1 8	4.58	10.68
e	6,7 6.60 65	4.36	10.96
f	7,0 6.95 6,9	4.21	11.16
g	7,7	3.82	11.52
h	7,9	3.71	11.61
K	8,8	3.24	12.04
l	9.5?	2.92?	12.42?

Sequences Near N Pole
January 29, 1920

ScV

Mc 15999

Seq V

Reduce with B on 15997

	Sc1	Sc2	Diff ~~B. 53.87~~	Cu	Magn
a		4.5	5.85	5.08^{e} .	9.58^{e}
b		5.3	5.49	4.92	10.22
c		6.2	5.13	4.64	10.84
d		6.7	4.65	4.45	11.15
e		7.1	4.79	4.28	11.38
f		8.5	3.57	3.77	12.27
g		8.9	3.57 ~~2.87~~	3.71	12.61
h		9.2	4.02	3.67	12.87
k		9.60 9.7	3.82 9.8	3.61	13.21 E
l		9.8?	3.99	.	.

Copied 53:210

Pole

	Sc1	Sc2	~~Rd~~ Diff
8	3.2 3.1		5.03
9	3.8 3.7		5.03
10		3.9	5.12
11		4.8	4.75
12		5.1	4.76
13		5.7	4.60
14		6.2	4.45
15		6.9	4.18
16		7.5	3.90
17		7.9	3.73
18		8.5	3.56
19		9.0	3.42
20		9.65 95 9.8	3.08 ~~2.93~~

Sequences Near N Pole
January 29, 1920

Sc V

MC 16661 [illegible]

Seq S

		Sc 1	Sc 2	Curv	mag	
Reduce with	a		4.7	5.02	9.72	Copied 53:207
P on 15997	b		5.3	4.85	10.15	
	c		6.3	4.50	10.80	
	d		6.5	4.40	10.90	
	e		6.8	4.28	11.08	
	f		7.1	4.14	11.24	
	g		7.7	3.82	11.52	
	h		7.9	3.72	11.62	
	K		8.3	3.50	11.80	
	l		9.1	3.08	12.18	

Seq U

Reduce with	a	In crack			dif	
B on 15997	b		6.0	4.70	10.70	
	c		6.2	4.63	10.83	Copied 53:208
	d		6.7	4.45	11.15	
	e		7.1	4.27	11.37	
	f		6.9	4.38	11.28	
	g		8.2	3.85	12.05	
	h		9.0	3.70	12.70	

Seq T

Reduce with	a		4.6	4.92	9.52	Copied 53:209
P on 15999	b		5.1	4.77	9.87	
	c		5.7	4.58	10.28	
	d		6.1	4.44	10.54	
	e		6.5	4.31	10.81	
	f		6.7	4.23	10.93	
	g		7.5	3.90	11.40	
	h		7.9	3.75	11.65	
	K		9.0	3.38	12.38	

11:35

10 —

DcV

Sequences Near N Pole

January 30, 1920

Copied 53:193

Seq B MC 16506

Reduce with P on 16509

	Sc1	Sc2	cum	magn.	BK53:87 Diff
a		4.0	6.15	10.15	6.35
b		4.8	609	10.89	5.99
c		5.5	602	11.52	5.83
d		5.3	6.03	11.33	6.05
e		6.0	5.98	11.98	5.89
f		6.2	5.97	12.17	5.87
g		6.7	5.93	12.63	5.77
h		7.3	5.89	13.19	5.92
k		7.5	5.88	13.38	5.92
l		8.0	5.87	13.87	5.79
m		8.5	5.83	14.33	5.80?
n		9.1	5.80	14.90	

Seq N

Copied 53:203

Reduce with P on 16508

				MC16512 p.193	Mean	MC 16509 p.120	Diff	Feb.26 Diff BK53,135
a	4.2	6.13	10.33					6.29
b	5.2	6.14	11.34					5.88
c	5.5	6.12	11.62					5.81
d	6.1	6.03	12.13	6.0	6.05	6.2	−15	5.80
e	6.5	5.99	12.49	6.5	6.50	6.5	00	5.87
f	6.8	5.97	12.77	6.7	6.75	6.7	+05	5.87
g	7.1	5.93	13.03	7.0	7.05	7.2	−15	5.90
h	7.7	5.88	13.58	7.5	7.60	7.5	+10	5.69
k	7.8	5.87	13.67	7.5	7.65	7.7	−05	5.81
l	8.3	5.79	14.09	8.1	8.20	8.3	−10	5.79
m	8.7	5.73	14.43	8.5	8.60	8.7	−10	5.73
n	9.0	5.70	14.70	9.0	9.00	9.1	−10	5.78
o	9.5	5.61?	15.11?	9.3	9.40			5.50?

$\frac{10-50}{6}$ $-35/4 = -09$

−07

Sequences Near N Pole

Dec

January 30, 1920

Deg B ~~MC 16507~~

Copied 53:193

Reduce with P on 16508

	Sc 1	Sc 2	Curv	Magn.	Diff BK53:86
a		4.1	6.13	10.23	6.21
b		4.5	6.15	10.65	6.28
c		5.3	6.13	11.43	6.04
d		5.3	6.13	11.43	5.97
e		5.8	6.09	11.89	6.12
f		6.1	6.03	12.13	5.94
g		6.7	5.98	12.68	5.72
h		7.5	5.89	13.39	5.67
k		7.5	5.89	13.39	5.98
l		8.0	5.83	13.83	5.83
m		8.5	5.76	14.26	5.94
n		9.5?	5.61?	15.11?	5.56

~~Deg~~

Deg A MC 16508

Copied 53:81

Reduce with P on 16509

	Sc 1	Sc 2	Curv	Magn.
a		4.4	6.13	10.53
b		4.8	6.09	10.89
c		5.0	6.07	11.07
d		5.2	6.05	11.25
e		5.5	6.02	11.52
f		5.9	5.98	11.88
g		6.1	5.97	12.07
h		6.5	5.94	12.44
k		6.9	5.92	12.82
l		7.3	5.89	13.19
m		7.7 7.9 7.80	5.88	13.68
n		9.0	5.80	14.80
o		9.3	5.80	15.10

Sequences Near N Pole
January 30, 1920

Dev

plot 36

	MC 16508 Pole		Diff
8	2.2 2.1		6.03
9	2.8 2.7		6.03
10	3.0 2.9		6.02
11	3.5 3.4		6.05
12	3.8 3.7 3.80 00	3.8	6.06
13		4.1	6.20
14		4.5	6.15
15		4.9	6.18
16		5.3	6.10
17		5.5	6.13
18		6.2	5.86
19		6.5	5.92
20		6.7	6.03
21		7.0	5.96
22		7.2	5.99
23		7.5	5.84
24		7.8	5.84
25		8.0	5.87
26		Sup.	
27		9.0	5.69
28		9.5	5.61

DeV

Sequences Near N Pole

January 30, 1920

MC 16509 Pole Plt 36

MC 16506 / 512 } p. 118

	Sc 1	Sc 2	Diff		Diff.
8	2.1 2.0		6.13		
9	2.6 2.5		6.23		
10	2.8 2.7		6.22		
11	3.4 3.3		6.15		
12	3.8 3.7 380	3.8	6.06		
13		4.1	6.20		
14		4.5	6.15		
15		5.0	6.08		
16		5.3	6.10		
17		5.7	5.93		
18		6.3	5.76	6.30	00
19		6.5	5.92	6.50	00
20		6.7	6.03	680	-10
21		7.1	5.86	7.15	-05
22		7.2	5.99	7.50	-30
23		7.5	5.84	7.55	-05
24		7.7	5.94	780	-10
25		8.0	5.87	8.05	-05
26		8.5	5.83	8.40	+10
27		8.9	5.79	880	+10
28		9.3	5.81	9.25	+05
29		9.8	5.86	960	00

$\frac{20-55}{7} = -05$

Sequences Near N Pole

ScV

January 30, 1920

MC 16509

Seq M		Sc 1		Sc 2	Corr	Magn.
Reduce	a	3.5	3.6		6.11	9.71
with P	b	3.8	3.9	3.90 3.9	6.12	10.02
m 16508	c			4.5	6.15	10.65
	d			4.8	6.16	10.96
	e			5.1	6.15	11.25
	f			5.5	6.12	11.62
	g			5.7	6.09	11.79
	h			6.0	6.05	12.05
	k			6.5	5.99	12.49
	l			7.1	5.93	13.03
	m			7.5	5.89	13.39
	n			7.9	5.84	13.74
	o			8.1	5.81	13.91
	p			9.0	5.70	14.70
	q			n.s.		

Copied 53: 129

Sequences Near N Pole

January 30, 1920

ScV

MC 16511

Copied 53:203

Seq N		Sc1	Sc2	Corr	Magn,
Reduce with	a		4.5	6.12	10.62
P on 16509	f		5.2	6.65	11.25
	c		5.5	6.02	11.52
	d		5.9	5.98	~~12.88~~ 11.88
	e		6.3	5.97	12.27
	f		6.7	5.93	12.63
	g		7.1	5.90	13.00
	h		7.5	5.88	13.38
	k		7.5	5.88	13.38
	l		8.1	5.85	13.95
	m		8.7	5.82	14.52
	n		9.0	5.80	14.80
	o		?		?

Sequences Near N Pole
January 30, 1920

S.e.V

MC 16512

Copied 53:193

Seq B		Sc 1	Sc 2	Cum	Magn.	p.187	mean	Diff plt 42 BK53 :86	Diff. BK53 87 (Feb. 26)
Reduced with	a		4.2	6.13	10.33	4.0	4.10^{11}	6.21	6.15
P on 16509	b		4.7	6.10	1080	4.8	4.75^{10}	6.03	6.09
	c		5.3	6.03	11.33	5.5	5.40^{11}	$\overset{5}{4}.94$	6.03
	d		5.3	6.03	11.33	5.3	5.30^{00}	5.97	6.05
	e		6.0	5.98	11.98	6.0	6.00^{00}	5.92	5.89
	f		6.2	5.97	12.17	6.2	6.20^{00}	5.84	5.87
	g	Defective?		.		6.7	$6.7^{.02}$	5.72	.
	h		7.3	5.89	13.19	7.3	7.30^{00}	5.87	5.92
	k		7.5	5.88	13.38	7.5	7.50^{00}	5.98	$5.\overset{5}{9}2$
	l		7.9	5.87	1377	8.0	7.95^{10}	5.88	5.89
	m		8.5	5.82	14.32	8.5	8.50^{00}	5.94	5.80?
	n		9.1?	p5.80	14.90?	9.1	9.10^{00}	5.96	

Copied 52:203

Seq N		Sc 1	Sc 2	Cum	Magn.	p.187	mean		Diff BK53, 135
Reduce with	a		4.0	6.13	10.13	4.2	4.10		6.49
P on 16508	b		5.0	6.15	11.15	5.2	5.10		6.08
	c		5.3	6.13	11.43	5.5	5.40		6.11
	d		6.0	6.05	12.05	6.1	6.05		5.90
	e		6.5	5.99	12.49	6.5	6.50		5.87
	f		6.7	5.98	1268	6.8	6.75		5.97
	g		7.0	5.95	12.95	7.1	7.05		6.00
	h		7.5	5.90	13.40	7.7	7.60		5.89
	k		7.5	5.90	13.40	7.8	7.65		6.11
	l		8.1	5.82	13.92	8.3	8.20		5.99
	m		8.5	5.77	14.27	8.7	8.60		5.93
	n		9.0	5.70	14.70	9.0	9.00		5.78
	o		9.3	5.63	[illegible]93	9.5	9.40	12:30	5.[illegible]

10:40

ScV

Sequences Near N Pole

February 2, 1920

MC 16506

		Sc 1	Sc 2		Cu	Magn	May, 1920 Cu	magn
Seq V	a	3.6 3.5			6.14	9.74		
	b		4.2		6.1~~1~~3	10.33		
Reduce with	c		4.5		6.12	10.62		
J on 16509 (p.197	d		5.1		6.11	11.21		
	e		5.4		6.10	11.50		
	f		6.00 6.1	5.9	6.10	12.10		
	g		6.3		6.09	12.39		
	h		6.7		6.06	12.76		
	k		6.9		6.05	12.95		
	l		7.2		6.02	13.22		
	m		7.7		5.95	13.65	5.98	13.68
	n		8.0		5.91	13.91	5.97	13.97
	o		8.5		5.81	14.31	5.92 e	14.42 e
	p		7		.	.		

Copied 53:210 ✓

		Sc 1	Sc 2		Cu	Magn		
Seq K								
	a	3.6 3.5			6.36	9.96	6.40 e	10.00 e
Reduce with	b	3.8 3.7			6.36	10.16		
G on 16508 (p.196)	c		4.2		6.35	10.55		
	d		4.4		6.34	10.74		
	e		4.3		6.35	10.65		
	g ~~f~~		4.90 5.0	4.8	6.32	11.22		
	f ~~g~~		4.5		6.34	10.84		
	h		5.3		6.30	11.60		
	k		5.7		6.26	11.96		
	l		6.5		6.18	12.68	6.12	12.62
	m		6.9		6.12	13.02	6.~~12~~08	12.98
	n		7.7		5.94	13.64	6.00	13.70
	o		8.3		5.84	14.14	5.98	14.28
	p		9.1		5.64	14.74	5.97	15.07

Copied 53:200 ✓

Sequences Near N Pole

February 2, 1920

Ser V

Seq D

Reduce with SG on 16508 p.196

Mc 16507

	Sc 1	Sc 2	·	Magn	May 1920 cu magn	
a	3.5 3.4				6.40 e	9.90 e
b		4.20 4.3 4.1	6.35	10.55		
c		5.0	6.31	11.31		
d		5.1	631	11.41		
e		5.5	6.29	11.79		
f		5.9	6.24	12.14		
g		6.2	6.22	12.42		
h		6.7	6.15	12.85	6.11	12.81
k		7.5	6.00	13.50	6.02	13.52
l		8.0	5.85	13.85	5.98	13.98
m		8.2	5.80	14.00	5.97	14.17
n		8.9	5.58	14.48	5.97	14.87
o		9.3	5.45	14.75	5.97	15.27

Copied ✓ 53; 93

Sequences Near N Pole
February 2, 1920

Sec V

Seq W MC 16508

Reduce with T on 16509 p.197

	Sc 1	Sc 2	Cu	Magn	May 1920 Cu	magn
a	3.6 3.5		6.15	9.75		
b		4.1	6.14	10.24		
c		3.9	6.14	10.04		
d		4.7	6.12	10.82		
e		5.3	6.11	11.41		
f		5.8	6.10	11.90		
g		6.1	6.09	12.19		
h		6.5	6.08	12.58		
k		6.9	6.05	12.95		
l		7.3	6.01	13.31		
m		7.5	5.98	13.48	6.00	1350
n		7.9	5.92	13.82	5.98	1388
o		8.60 8.5 8.7	5.77	14.37	5.91 e	14.51 e
p		9.3	5.58 e	14.88 e	5.83 e	15.13 e

Copied 53, 212 ✓

Seq G

Plot 46

For reducing
K on 16506
D " 16507
L " 16509
R " 16512

	Sc 1		Sc 2	Diff revised B 53:107 Plot 45	May 1920 53, 106
a	3.8 3.7	3.80	3.8	6.29	6.33
b			4.1	6.38	6.38
c			4.5	6.42	6.41
d			4.7	6.34	6.30
e			5.0	6.24	6.24
f			5.3	6.26	6.31
g			5.9	6.14	6.14
h			6.2	6.20	6.19
k			6.5	6.34	6.40
l			7.3	6.06	6.11
m			8.1	5.80	5.92
n			8.7	5.66	5.91
o			9.3	5.45	6.14
p			9.8	5.35: 5.50	5.98?

Se V

Sequences Near N Pole
February 2, 1920

MC 16509

MC 16506 }
16512 } p. 129

16509
−16506
12

For reducing
V on 16506
M " 16508
Q " 16511
V " 16512

Seq I	Sc 1	Sc 2		May 1920 53:154		
a	36 3.5		Diff 53:155 6.16	6.12		
f		3.9	~~5.80~~ 6.13	6.09		
c		4.2	6.14	6.17		
d		4.5	6.09	6.09		
e		4.7	6.14	6.07		
f		4.9	6.24	6.23		
g		5.5	6.02	6.00		
h		5.7	6.01	6.01	5.80	−10 ~~−2~~
k		6.1	6.10	6.12	6.30	−20
l		6.5	6.12	6.20	6.70	−20
m		w.s. 6.7 ~~7.0~~	6.32	6.28	7.10	−40
n		7.3	6.02	6.05	7.50	−20
o		7.7	6.00	6.01	7.75	−05
p		8.3	5.76	5.79	8.20	−10

−75/4 = −18

May 1920
cu merge
6.42e 9.82e

Seq 2

Reduce with
G on 16508

Copied 53:125 ✓

Seq 2						
a	34 3.3					
b	36 3.5	3	6.35	9.95		
c		3.7	6.36	10.06		
d		3.9	6.36	10.26		
e		4.1	6.35	10.45		
f		4.3	6.35	10.65		
g		4.5	6.34	10.84		
h		5.3	6.30	11.60		
k		6.3	6.20	12.50	6.14	12.44
l		6.9	6.12	13.02	6.08	12.98
m		7.2	6.06	13.26	6.05	13.25
n		7.5	6.00	13.50	6.01	13.51
o		8.1	5.83	13.93	5.8	14.08
p		8.5	5.72	14.22	5.97	14.47
q		9.3?	5.46	14.75?	5.97	15.27?

Sequences Near N. Pole
February 2, 1920

Sc V

MC 16511

Deg 9

Reduce with
J on 16509

	Sc 1	Sc 2	Cu	Magn	cu	magn
					May 1920	
a		3.8	6.14	9.94		
b		4.1	6.14	10.24		
c		4.5	6.13	10.63		
d		5.1	6.12	11.22		
e		5.5	6.10	11.60		
f		5.5	6.10	11.60		
g		5.9	6.10	12.00		
h		6.3	6.09	12.39		
k		6.60 6.5	6.07 6.7	12.67		
l		6.9	6.05	12.95		
m		7.3	6.00	13.30		
n		7.5	5.98	13.48	6.00	13.50
o		7.8	5.94	13.74	5.98	13.78
p		8.2	5.87	14.07	5.94	14.14
q		8.80 8.7	5.72 8.9	14.52	5.88 e	14.68 e

Copied 53, 205 ✓

Sequences Near N Pole
February 2, 1920

Se V

Mc 16512

May 1920

Seq V

Reduce with
J on 16509

Copied 53:210 ✓

	Se1	Se2	Cu	Magn	Cu	magn
a	$\overset{3.5}{3.4}$		6.15	9.65		
b		4.1	6.14	10.24		
c		4.3	6.13	10.43		
d		5.1	6.11	11.21		
e		5.3	6.11	11.41		
f		5.7	6.10	11.80		
g		6.1	6.10	12.20		
h		6.5	6.08	12.58		
k		6.7	6.06	12.76		
l		7.1	6.02	13.12		
m		7.5	5.98	13.48	6.00	13.50
n		7.9	5.92	13.82	5.96	13.88
o		8.5	5.80	14.30	5.92	14.42
p		9.8?	5.72	15.52?	5.78	15.58^{2}:

Seq K

Reduce with
G on 16508

Copied 53:200 ✓

	Se1	Se2	Cu	Magn	Cu	magn	16506 p.194	Mean 16506 512	16509 p.125	16509 − 16506 512
a	$\overset{3.5}{3.4}$		.		6.40^{e}	9.90^{e}				
b		3.8	$6.\overset{3}{4}5$	$10.\overset{1}{2}5$						
c		4.3	6.34	10.64						
d		4.3	6.34	10.64						
e		4.1	6.35	10.45						
f		4.5	6.34	10.84						
g		4.7	6.33	11.03						
h		5.1	6.31	11.41			5.3	5.20	5.3	+10
k		5.5	6.29	11.79			5.7	5.60	5.9	−10
l		6.5	6.18	12.68			6.5	6.40	6.3	−10
m		6.7	6.14	12.84	6.11	12.81	6.9	6.80	6.5	30
n		7.5	6.01	13.51	6.02	13.52	7.7	7.60	7.3	−30
o		8.1	5.83	13.93	5.98	14.08	8.3	8.20	7.9	−30
p		8.7	5.59	14.49	5.97	14.87	9.1	9.00	9.0	00

12:20

$-60/3 = -20$

11:25
Sc V

Sequences Near N. Pole
February 4, 1920

Seq B

MC 16106

For reducing δ
Take mean
with 16113

	Sc 1	Sc 2	MC 16113 Pr 201	Mean	Diff B53:87
a		4.80 4.7 4.9	4.6	4.70	5.65
b		5.5	5.3	5.40	5.39
c		6.3	6.3	6.30	5.03
d		6.1	6.1	6.10	5.25
e		7.2	7.1	7.15	4.74
f		7.3	7.40	7.35	4.72
g		7.9	8.0	7.95	4.52
h		9.1	8.9	9.00	4.22
k		9.3	9.5	9.40	4.02
l		9.7	9.8?	9.75	4.04

Seq δ

MC 16111

				Cu.	Magn
a	2.9 2.8				
b	4.4 4.3 4.45	4.5		5.72	10.17
c		6.2		5.10	11.30
d		6.7		4.94	11.64
e		6.9		4.86	11.76
f		6.8		4.91	11.71
g		7.80 7.9	7.7	4.55	12.35
h		8.3		4.42	12.72
k		8.5		4.36	12.86
l		9.0		4.22	13.22
m		9.7		4.02	13.72

Copied 53, 181

Sequences Near N Pole
February 4, 1920

V
Sc ~~B~~

MC 16113

Seq B

	Sc 1	Sc 2
a		4.6
b		5.3
c		6.3
d		6.1
e		7.1
f		7.40 7.5 7.3
g		8.0
h		8.9
k		9.5
l		9.8? f+

Sep 200

Sequences Near N Pole

Se V February 4, 1920

MC 16117

Seq 5

Reduce with V on 16114 and 16121

	Se 1	Se 2	Cu 16114 Cu	From MC 16114 Magn	Cu	From MC 16121 Magn
a	30 29		.	.	.	
b		4.7	5.14	9.84	5.26	9.96
c		6.3	4.83	11.13	4.82	11.12
d		6.7	4.75	11.45	4.73	11.43
e		7.0	4.69	11.69	4.65	11.65
f		6.9	4.71	11.61	4.69	11.59
g		7.7	4.54	12.24	4.50	12.20
h		8.1	4.44.	12.54	4.39	12.49
k		8.5	4.33	12.83	4.28	12.78
l		8.9	4.21	13.11	4.14	13.04
m		9.8?	.	.	3.81	13.61?

MC 16114

Seq V

Plot 44

		Diff Magns 1920 53:162
a	4.8	5.07
b	5.2	5.19
c	5.7	4.99
d	6.5	4.75
e	6.8	4.65
f	7.40 7.3	4.66 7.5
g	7.7	4.55
h	8.0	4.56
k	8.7	4.15
l	8.9	4.19
m	9.40 9.3	4.04 9.5

Sequences Near N Pole

February 4, 1920

Dc V

Mc 16121

Seq V

Plot 44

	Sc1	Sc2	Diff Mag's 1920 53;162
a		4.5	5.37
b		5.3	5.09
c		5,7	4.99
d		6,5	4.75
e		6,7	4.75
f		7.5	4.56
g		7.8	4.45
h		8,1	4.46
k		8,5	4.35
l		9,0	4.09
m		9,5	3.94

δ

Mc 16118

Seq δ

~~Reduce with V on 16121~~

	Sc1	Sc2	
a	29 2,8		
b		4,5	
c		6,5	
d		680 6,9	6,7
e		7,0	
f		6,8	
g		7.7	
h		8,0	
k		8,3	
l		8,7	
m		9.5	

12;55

10:20

Se Y

Sequences Near N Pole

February 9, 1920

MC 16569

Seq E

~~B~~ g, 16570 p. 205 Pl.49

N, 16573 p. 208 Pl.49

		Sc 1	Sc 2	Cu	G Magn	May, 1920 Cu	magn	Cu	N Magn	May, 1920 Cu	magn
	a	36 3.5		6.59	10.19			6.62	10.22		
	b		3.9	6.60	10.50			6.64	10.54		
	c	3.6 3.5		6.59	10.19			6.62	10.22		
	d		4.7	6.53	11.23			6.65	11.35		
	e		5.1	6.47	11.57			6.64	11.74		
	f		5.5	6.40	11.90			6.58	12.08		
	g		6.0	6.29	12.29			6.50	12.50		
	h		6.5	6.18	12.68			6.41	12.91		
	k		6.7	6.14	12.84	6.17	12.87	6.37	13.07		
	l		7.1	6.05	13.15	6.12	13.22	6.28	13.38		
	m		7.7	5.93	13.63	6.07	13.77	6.13	13.83	6.13	13.83
	n		8.20 8.3 8.1	5.79	13.99	6.02	14.22	6.00	14.20	6.03	14.23
near defect	o		8.80 8.9 8.7	5.60	14.40	6.00	14.80	5.77	14.57	5.92	14.72
near br. object	p		8.5?	5.71	14.21?	6.01?	14.51?	.	.	5.98?	14.48?

Copied 53:97 ✓

Copied 53:97 ✓

Seq C

B 16570 p. 205

J 16573 p. 208

Pl.49

				Cu.	from "B" Magn			Cu	from J Magn		
	a	34 3.3		.	.	6.84 e	10.24 e	6.70	10.00		
	b	36 3.5 3.65	3.7	6.87	10.62	~~6.84~~ e		6.73	10.38		
	c		4.0	6.77	10.77			6.73	10.73		
	d		4.3	6.71	11.01			6.70	11.00		
	e		4.8	6.58	11.38			6.62	11.42		
	f		5.0	6.53	11.53			6.60	11.60		
	g		5.3	6.46	11.76			6.54	11.84		
	h		5.80 5.7 5.9	6.36	12.16			6.47	12.27		
	k	w.s	7.0 ~~6.5~~	6.16	13.16			6.24	13.24		
	l		7.40 7.5 7.3	6.10	13.50			6.16	13.56		
	m		7.7	6.07	13.77			6.08	13.78		
	n		8.1	6.02	14.12			5.96	14.06	6.00	14.10
	o		8.7	5.92	14.62 E			5.77	14.47 E	5.88 e	14.58 e
	p		9.1	5.84	14.94 E			5.62	14.72 E	5.86 e	14.98 e

Copied 53:89 ✓

Copied ✓ 53:89

Plat-49

Sequences Near N Pole
February 9, 1920

SeV

MC 16570

Seq G B

	Sc1	Sc2		Diff 53:87	From page 86
a	35 3.4			x6.85	6.81
b		3.9		6.89 88	6.88
c		4.7		6.63 49	6.64
d		4.9		6.45 37	6.37
e		560 5.7	5.5	6.29 32	6.32
f		5.5		6.57 54	6.54
g		620 6.1	6.3	6.27 22	6.22
h		7.1		6.12 07	6.07
k		7.3		6.12 18	6.18
l		7.7		6.09 13	6.13
Near defect m		8.3?		6.02 14	6.14
n		9.1		6.07	5.96
x					

Seq G

	Sc1	Sc2		Diff 53:107	May, 1920 From page 106
a	36 3.5			6.49	6.58
b		3.9		6.58	5 6.68
c		4.3		6.62	6.61
d		4.5		6.54	6.50
e		4.7		6.54	6.54
f		5.1		6.46	6.46
g		5.7		6.34	6.34
h		6.1		6.30	6.29
k		6.7		6.14	6.20
l		7.5		5.86	5.91
m		8.0		5.90	6.02
n		860 8.5	8.7	5.76	6.01
o		9.5		5.25	5.94
p		ns		.	.

Sequences Near N Pole

Sc V

February 9, 1920

Decl 0

MC 16571

G 1657 0, pl h 49
N 16573 " 49

	Sc 1	Sc 2		G Cu	G Magn	May 1920 cu	May 1920 magn	N Cu	N Magn	May, 1920 cu	May, 1920 magn
a	3.3			~~6.60~~ e	.	6.60e	9.90 e	.	.	6.60	9.90
b	3.7 3.75	38		6.59	10.34			6.63	10.38		
c		4.0		6.60	10.60			6.64	10.64		
d		4.3		6.58	10.88			6.65	10.95		
e		4.7		6.53	11.23			6.66	11.36		
f	ws	4.5 5.0		6.54	11.04			6.65	11.15		
g	ws	~~4.5~~ 5.0		6.54	11.04			6.65	11.15		
h		5.1		6.47	11.57			6.64	11.74		
k		5.5		6.40	11.90			6.62	12.12		
l		6.1		6.26	12.36			6.48	12.58		
m		6.20 6.3	6.1	6.21	12.41			6.46	12.66		
n		6.7		6.14	12.84	6.17	12.87	6.36	13.06	6.31	13.01
o		6.9		6.11	13.01	6.14	13.04	6.32	13.22	6.28	13.18
p		7.85 8.0	7.7	5.91	13.76	6.03	13.88	6.10	13.95	6.08	13.93
q		8.8		5.60	14.40	6.00	14.80	5.77	14.57	5.93	14.73

Copied 53.137 ✓

Copied 53.137 ✓

Sequences Near N Pole
February 9, 1920

Ser

MC 16571

Seq R

Copied 53,[illegible]45 ✓

May, 1920

Reduce with Seq B on MC 16570 plt 49

J on 16573 plt 49

Copied 53,145 ✓

	Se1	Se2	Cu	Magn	(J) Cu	Magn		
a	33 3.2		6.86 e	10.16 e	6.70	10.00		
b	36 3.5		6.88	10.48	6.73	10.33		
c		38	6.82	10.62	6.74	10.54		
d		4.1	6.75	10.85	6.72	10.82		
e		4.9	6.56	11.46	6.62	11.52		
f		51	6.51	11.61	6.58	11.68		
g		53	6.45	11.75	6.54	11.84		
h		5.7	6.38	12.08	6.49	12.19		
k		61	6.30	12.40	6.42	12.52		
l		65	6.23	12.73	6.34	12.84		
m		70	6.15	13.15	6.24	13.24		
n		73	6.12	13.42	6.19	13.49		
o		80	6.03	14.03	6.00	14.00	6.00	14.00
p		9.5	5.96	15.46	5.46	14.96	5.74 e	15.24 e

Plot 49

Sequences Near N Pole
February 9, 1920

Sc V

MC 16573

Seq N

	Sc 1	Sc 2	Diff 53:135	May 1920 Diff 53,136 ~~on magn~~	Curve G 16570 Plt 49	May, 1920 Magn from Seq G
a		3.8	6.65	665	658	10.38
b		4.5	6.59	6.58	6.54	11.04
c		4.7	6.72	6.66	6.50	11.20
d		5.3	6.62	6.55	6.43	11.73
e		5.8	6.59	6.57	6.32	12.12
f		6.2	6.49	6.53	6.24	12.44
g		6.9	6.12	6.17	6.14	13.04
h		7.3	6.11	6.13	6.11	13.41
k		7.5	6.13	6.16	6.08	13.58
l		7.9	6.19	6.24 ~~5.94~~	6.04	13.94
m		8.5	5.33	6.12 ~~5.64~~	6.02	14.52
n		9.1	5.68	5.86 ~~5.52~~	5.98	15.06
o		9.7	5.30	5.84 ~~5.26~~	5.93	15.63
~~p~~						

Seq I

Plot 49

	Sc 1	Sc 2	Diff 53:155	p.154	
a	3.3 3.2		6.40		
b	3.2 3.1		6.83		
c	3.6 3.5		6.74		
d		3.9	6.69		
e		4.0	6.84		
f		4.4	6.74		
g		4.9	6.62		
h		5.1	6.61		
k		6.0	6.20	6.22	✓
l		6.3	6.32	6.40	✓
m		6.7	6.32	6.28	
n		7.0	6.32	6.35	
o		7.5	6.20	6.21	
p		8.1	5.96	5.99	

12', 25

10 —
Sc V

Sequences Near N. Pole
February 12, 1920

MC 16568

Plot 44

Seq K

For reducing
F on 16570
M on 16571

also reduce ⎫?.
with F on 16570 ⎭

	Sc 1	Sc 2	Diff Magn's 1920 53:122
a	3.3 3.2		6.52
b	3.6 3.5		6.50
c		3.9	6.51
d		4.3	6.45
e		4.5	6.24
f		4.7	6.44
g		5.0	6.33
h		5.4	6.24
k		5.9	6.14
l		6.4	6.12
m		6.80 6.9	6.04 6.7
n		7.3	6.07
o		8.0	5.90
p		8.9	5.85

Seq V

Plot 43

For reducing
A on 16570
S on 16571

	Sc 1	Sc 2	Diff. Magn's 1920 53:162
a	3.4 3.3		6.47
b		3.9	6.49
c		4.3	6.39
d		4.8	6.45
e		5.0	6.45
f		5.9	6.16
g		6.1	6.15
h		6.5	6.06
k		7.0	5.85
l		7.20 7.1	5.89 7.3
m		7.60 7.5	5.84 7.7
n		7.9	5.95
o		8.8	5.46
p		9.3	6.14

Sequences Near N Pole
February 12, 1920

Copied 53:101

Sc V

MC 16570

Seq F

Reduce with K on 165~~70~~ 68

also for reducing ? K on 16570

	Sc 1	Sc 2	Cu	Magn
a	36 3.5		6.52	10.12
b		3.9	6.50	10.40
c		4.2	6.46	10.66
d		4.5	6.42	10.92
e		4.7	6.39	11.09
f		5.0	6.34	11.34
g		5.5	6.24	11.74
h		5.5	6.24	11.74
k		6.1	6.16	12.26
l		6.5	6.11	12.61
m		6.5	6.11	12.61
n		6.9	6.05	12.95
o		7.9	5.94	13.84
p		8.8	5.84	14.64
q		9.5	5.76	15.26E

Sequences Near N Pole
February 12, 1920
Copied 53:8120

Dec

MC 16570

Sag a

V. 16568

	Sc 1	Sc 2	Cw	Magn
a		4.0	6.48	10.48
b		4.3	6.46	10.76
c		4.7	6.43	11.13
d		4.9	6.40	11.30
e		5.2	6.33	11.53
f		5.5	6.27	11.77
g		6.0	6.14	12.14
h		6.7	5.97	12.67
k		7.1	5.92	13.02
l		7.5	5.89	13.39
m		7.9	5.85	13.75
n		8.9	5.80	14.70
o		9.7	5.75	15.45
~~p~~				

Sequences Near N. Pole

February 12, 192

Copied 53:129

Sc V

Me 16571

Seq M

Reduce with K on 16568

	Sc 1	Sc 2		Cu	Magn
a	36 3.5			6.52	10.12
b	38 3.7 3.80	3.8		6.50	10.30
c		4.4		6.44	10.84
d		480 4.7	4.9	6.37	11.17
e		5.1		6.32	11.42
f		5.3		6.29	11.59
g		540 5.5	5.3	6.26	11.66
h		6.2		6.14	12.34
k		6.5		6.11	12.61
l		6.9		6.05	12.95
m		7.3		6.01	13.31
n		7.8		5.95	13.75
o		8.3		5.90	14.20
p		9.1		5.82	14.92
q		7			

Sequences Near N Pole

Set

MC 16571.

Seq S

V. 16568

Copied 53:207

	Sc 1	Sc 2	Cw.	Magn
a	3.2 3.1		,	,
b	3.4 3.3		6.47	9.87
c		3.8	6.49	10.29
d		4.2	6.46	10.66
e		4.5	6.45	10.95
f		5.0	6.37	11.37
g		5.3	6.32	11.62
h		5.9	6.17	12.07
k		6.1	6.13	12.23
l		6.3	6.05	12.35
m		7.0	5.93	12.93
n		7.3	5.90	13.20
o		8.0	5.84	13.84
p		9.40 9.3	5.78 9.5	15.18

11 ! 30

11 —
Sc V

Sc M7 Series.
August 27, 1920

	M7 2685		b2	Sc 2	Sc 2
	Sc 1	Sc 2		g	h
1	B			5,0	5.1
2	B			4.9	5.1
3	B			5.3	5.3
4	B			6.1	6.3
6	3.2			7.5	7.7
7	3.5			7.9	7.9
10	3.9	4.0		8.7 8.5	8.7 8.5
11		4.3		9.1	9.1
12a		5.3	5.5	9.8	9.8
14		5.9			
16		6.1	6.3		
17		6.7			
19		7.3			
21		7.9			
22		8.1			
23		8.3			
25		8.5			
25a		9 1			
26		9.0	9.2		
25b		9.3			
27		9.7			
9a		4.3		8.8	8.9
9b		5.0		9.3	9.3

M 7 Series

DeV

August 27, 1920

M7 2686 D2

	Sc1	Sc2		g	h	
1	B			5.1	5.0	
2	B			5.7	5.9	
3	B			5.1	5.1	
4	B			+h	6.2	6.0
5	B			6.1	6.1	
6	3.0			6.9	7.0	
7	3.1			7.1	7.1	
8	3.0			+h	7.2	
9	3.3			+h	7.5	
10	3.5			+h	8.0	
11	4.0			8.1	8.3	
12	4.1	4.2		8.5	8.7	
13		4.2		+h	8.7	
14		4.7		+h	9.3	
15		5.4		7		
16		5.5				
17		5.9				
18		6.2				
19		6.8	6.7			
20		6.9				
21		7.7				
22		7.9				
23		8.1				
24		8.5				
25		8.9				
26		9.1				
27		9.8?				
28	7					

M7 Series
August 27, 1920

bcV

M7 2690 b3

	Sc 1	Sc 2		g	h	
1	B			4.0	4.0	
2	B			4.2	4.2	
3	B			5.0	4.8	
4	B			4.9	5.0	
6	B			5.3	5.5	
7	B			tp	6.1	
8	B			tp	6.3	
10	B			tp	6.9	
11	B			tp	7.0	7.2
13	3.5			7.9	8.0	
14	3.9	4.0		8.7	8.7	
15		4.3		tp	9.0	
16		4.9		9.7	7	
19		5.2				
21		5.7				
22		6.0				
23		6.1	6.3			
24		7.1	6.9			
26		7.5	—			
27		8.3	8.1			
28		8.7				
29		tp				
30		7				

12.40