

* 150° East time actually.

Hobart time of 0^h RA = GMT of 0^h RA less 1 min 38 sec.

1957 values of GMT of 0^h RA = 1956 values less 2 m 59 sec.

Good data is when pen comes down to a well defined base once every minute or oftener. The base to be several divisions above zero.

Medium data same except pen only comes down to base once every five minutes or less.

Poor data are nights when short periods of good or medium data exist between long periods of swells and ripples. Whether or not these are significant depends upon judgment in relation to trend determined by good + medium data. Long swells can easily be mistaken for a trend.

13+14 August 1956, zero = 2.5 Day level 5.5 both evening and morning.
 Medium Quality

Time	RA	Divisions
940p		29.3
1000		29.1
20		29.0
40		20.7
1100		19.9
20		19.2
40p		18.9
MN		17.5
1220a		16.6
40		15.0
100		12.2
20		9.8
40		8.9
200		8.4
20		8.0
40		7.8
300		7.4
20		7.0
40		7.0
400		7.0
20		7.1
40		7.1
500		7.1
20		7.0
40		7.0
600		7.0
20		6.9
30		6.8
40		6.7
50		6.0
700		5.1

This record is example of a rather rough rise and fall about 7 hours long centered on 11 PM. The trend is a bit obscured by rain static and dripping ink. The hole open only from 8 PM to 3 AM. Some swells on rise.

138 16 15 43
 259 4 37
 437 16 11 06 = 0th RA
 17 Jan 1957

5 August 1956, zero 2.0
 Medium Qualities

Day level = 3.0 in morning
 (Net day level)² = 1

Time	RA	Division	Net Division	(Net Division) ²
200a	2335	20.0	18.0	324
20	2355	19.6	17.6	310
40	0015	18.7	16.7	279
300	0035	18.0	16.0	256
20	0055	17.0	15.0	225
40	0115	15.8	13.8	190
400	0135	15.1	13.1	172
20	0155	14.3	12.3	151
40	0215	13.2	11.2	126
500	0235	12.0	10.0	100
20	0255	11.0	9.0	81
40	0315	10.9	8.9	79
600	0335	10.6	8.6	74
20	0355	10.3	8.3	69
40	0415	10.0	8.0	64
50	0425	9.7	7.7	59
700	0435	9.2	7.2	52
10	0445	8.5	6.5	42
20	0455	7.9	5.9	35
30	0505	7.1	5.1	26
40	0515	6.4	4.4	19
50		6.0		
800		5.5		
10		5.2		
20		4.9		
30		4.0		
40		3.8		
50		3.5		
900		3.1		
10		3.0		
20		3.0		
30		3.0		

27 August 1956, zero = 0.6 Day level = 2.0, (Net Day level)² = 2.0
 Good quality in Morning. No evening reference

Time	RA	Divisions	Net Divisions	(Net Divisions) ²	(-) ² base 20
100a	2323	5.1	4.5	20.3	18.3
20	2343	5.0	4.4	19.4	17.4
40	0003	4.9	4.3	18.5	16.5
200	0023	4.9	4.3	18.5	16.5
20	0043	4.8	4.2	17.7	15.7
40	0103	4.6	4.0	16.0	14.0
300	0123	4.3	3.7	13.7	11.7
20	0143	3.8	3.2	10.2	8.2
40	0203	3.5	2.9	8.4	6.4
400	0223	3.3	2.7	7.3	5.3
20	0243	3.0	2.4	5.8	3.8
40	0303	2.9	2.3	5.3	3.3
500	0323	2.8	2.2	4.9	2.9
20	0343	2.6	2.0	4.0	2.0
40	0403	2.5	1.9	3.6	1.6
		Rain starts begins			

27 + 28 August 1956, zero = 0.0. Day level = 3.3 (Net day level)² = 11
 Good quality in Morning. No evening referral
 Equipment jump of 2.0 Divisions Upward at 4:36 AM.

Time	RA	Divisions	Corrected Divisions	(Net Divisions) ²	(-) ² Area 11
920p					
40					
1000					
20					
40					
1100	2127	10.0	12.0	144	133
20	2147	9.2	11.2	126	115
40p	2207	8.4	10.4	108	97
MN	2227	7.6	9.6	92	81
1220a	2247	6.8	8.8	77	66
40	2307	6.0	8.0	64	53
100	2327	5.8	7.8	61	50
20	2347	5.4	7.4	55	44
40	0007	5.2	7.2	52	41
200	0027	5.1	7.1	51	40
20	0047	5.1	7.1	50	39
40	0107	5.0	7.0	49	38
300	0127	5.0	7.0	49	38
20	0147	5.0	7.0	49	38
40	0207	4.9	6.9	48	37
400	0227	4.8	6.8	46	35
20	0247	4.6	6.6	44	33
40	0307	6.4	6.4	41	30
500	0327	6.2	6.2	39	28
20	0347	5.9	5.9	35	24
40	0407	5.8	5.8	33	22
600	0427	5.7	5.7	32	21
20	0447	5.6	5.6	31	20
40	0507	5.5	5.5	30	19

2/22 September 1956, zero = 0.4
 Good qualities

This record is a good example
 of a smooth rise and fall over
 5 hours wide centered on
 1140 PM plus moderate
 auroral radiation starting
 abruptly at 304 AM.

Time	RA	Divisions
1000p		2.5
20		2.8
40		3.0
1100		3.0
20		2.9
40p		3.5
MN		3.3
1220a		3.1
40		2.9
100		2.5
20		2.1
40		1.8
200		1.5
20		1.3
40		1.3
300		1.3
20		Ripple
40		Blip
400		1.4
20		1.4

23724 Sept. 1956, zero = -0.2
 Poor quality

Time	RA	Divisions						
1100p		4.0						
20		4.0						
40p		4.0						
MN		3.9						
1220a		3.8						
40		3.5						
100		3.1						
20		2.8						
40								
200								
20								
40								
300								
20								
40								
400								

Ripples

29 September 1956 Zero = -0.4 Day level = 0.0 at Time
 Medium Quality Rain State evening.
 (Day level)² = 0.2

	Divisions	Net Divisions	(Net Divisions) ²					
100a	0132	9.0	9.4	88				
20	0152	8.2	8.6	74				
40	0212	7.8	8.2	67				
200	0232	7.3	7.7	59				
20	0252	7.0	7.4	55				
40	0312	6.6	7.0	49				
300	0332	6.1	6.5	42				
20	0352	5.5	5.9	35				
40	0412	5.0	5.4	29				
400	0432	4.4	4.8	23				
20	0452	3.9	4.3	19				
40	0512	3.3	3.7	14				
500	0532	2.8	3.2	10				

4.5 October 1956, $\gamma_{pro} = 0.5$ Day level = 0.8. (Net day level)² = 0.1
 Poor Quality. Quite a lot of swells.

Time	RA	Divisions	Net Divisions	(Net Divisions) ²
1000p	2256	6.1	5.6	31.5
20	2316	6.0	5.5	30.3
40	2336	5.7	5.2	27.0
1100	2356	5.5	5.0	25.0
20		Swells		
40p		↓		
MN		↓		
1220a		↓		
40	0136	4.1	3.6	13.0
100	0156	4.0	3.5	12.3
20	0216	4.1	3.6	13.0
40	0236	4.0	3.5	12.3
200	0256	3.8	3.3	10.9
20		Swells		
40		↓		
300		↓		
20		↓		
40	0436	3.6	3.1	9.6
400	0456	3.5	3.0	9.0
20	0516	3.0	2.5	6.3
40	0536	2.9	2.4	5.8
500	0556	2.7	2.2	4.8
20	0616	2.5	2.0	4.0
40	0636	2.5	2.0	4.0

8+9 October 1956, zero = 6.0
 Medium Quality

This record has strong atmospheric
 prior to MN. The day level
 persists to 920P. The hole
 gradually opens to 425A and
 shuts near dawn. Some aerosol
 nucleation 930P-1230A. + 240A

Time	RA	Division
940p		6.0
1000		5.9
20		5.8
40		5.6
1100		5.4
20		5.2
40p		5.0
MN		4.8
1220a		4.5
40		4.1
100		3.8
20		3.2
40		3.0
200		2.8
20		2.8
40		3.0
300		3.1
20		3.3
40		3.5
400		3.6
20		3.8
40		Summit Drop.

13 October 1956, zero = 0.0 Day level = 1.4 in morning (Day level) = 2.0
 Medium Quality " " = 2.5 in evening

Time	RA	Divisions	(Divisions) ²	(-) ² less 2
MN.		—		
1220a	0148	5.5	30	28
40	0208	5.2	27	25
100	0228	4.9	24	22
20	0248	4.5	20	18
40	0308	4.1	17	15
200	0328	4.1	17	15
20	0348	4.0	16	14
40	0408	4.0	16	14
300	0428	3.9	15	13
20	0448	3.8	14	12
40	0508	3.7	14	12
400	0528	3.6	13	11
20	0548	3.5	12	10
40	0608	3.3	11	9
500	0628	3.1	10	8
20	0648	3.0	9	7

20th October 1956 zero = 0.6 Day level = 2.0 in evening, 0.4 in morning
 (not day level)² = 2.0

			Net Div	(Net Div) ²	(-) ² less 2
800p	2159	6.0	5.4	29.3	27
20	2219	5.8	5.2	27.1	25
40	2239	5.7	5.1	26.0	24
900	2259	5.3	4.7	22.1	20
20	2319	5.0	4.4	19.4	17
40	2339	4.8	4.2	17.6	16
1000	2359	4.4	4.0	16.0	14
20	0019	4.1	3.5	12.3	10
40	0039	4.0	3.4	11.6	10
1100	0059	3.9	3.3	10.9	9

14 October 1956, zero = 0.0 Day level = 0.7 in morning (Day level)² = 1.0 approx
 Medium Qualities " " = 3.0 in evening

Time	RA	Divisions	(Divisions) ²	(-) ² less 1
100a	0232	6.8	46	45
20	0252	6.2	39	38
40	0312	6.1	37	36
200	0332	6.0	36	35
20	0352	6.0	36	35
40	0412	6.0	36	35
300	0432	5.9	35	34
20	0452	5.9	35	34
40	0512	5.8	34	33
400	0532	5.8	34	33
20	0552	5.7	33	32
40	0612	5.6	31	30
500	0632	5.5	30	29

17th October, zero = 1.0, Day level 2.0 in morning. (Day level)² = 1.0

	Net Divisions	(Net Divisions) ²	(-) ² less 1	
140a	7.0	6.0	36	35
200	6.2	5.2	27	26
20	5.4	4.4	19	18
40	5.0	4.0	16	15
300	4.5	3.5	12	11
20	3.9	2.9	8.4	7.4
40	3.5	2.5	6.3	5.3
400	3.1	2.1	4.4	3.4

Evening strong southern source
 This chart is obviously mostly the top of pole gradually closing from MN toward dawn. The swells 4-5A are auroral radiation.

21+22 Oct. 1956, zero = 0.5, Day level = 1.0 in morning (Net day level) = 0.3
 Medium Quality " " = 1.6 in evening

Time	RA	Division	Net Div	(Net Div) ²
1100p	0103	8.0	7.5	56
20	0123	7.6	7.1	50
40p	0143	7.2	6.7	45
MN	0203	6.8	6.3	40
1220a	0223	6.2	5.7	33
40	0243	6.0	5.5	30
100	0303	5.7	5.2	27
20	0323	5.2	4.7	22
40	0343	4.9	4.4	19
200	0403	4.2	3.7	14
20	0423	4.1	3.6	13
40	0443	4.0	3.5	12
300	0503	3.9	3.4	12
20	0523	3.8	3.3	11
40	0543	3.8	3.3	11
400	0603	3.6	3.1	10
20	0623	3.5	3.0	9
40	0643	3.2	2.7	7
500	0703	3.0	2.5	6

This chart is practically free of aurora radiation. The top of hole gradually opens from about sunset to 1055 PM. The intensity reaches a limiting value dependent upon bottom of hole. From 1055p - 450a the intensity gradually declines as weaker parts of galaxy pass over hole. Then just at sunrise the D region absorption sets in and an abrupt drop occurs to daylight level.

22+23 October 1956, zero = 0.0, Day level = 0.3 evening (Net day level) = 0.1
 Medium Quality
 " " = 0.2 morning

Time	RA	Divisions	(Divisions) ²					
1020p	0027	4.0	16					
40	0047	3.9	15					
1100	0107	3.8	14					
20	0127	3.7	14					
40p	0147	3.6	13					
MN	0207	3.2	10					
1220a	0227	3.1	10					
40	0247	3.0	9					
100	0307	3.0	9					
20	0327	2.9	8					
40		Snella Begin						

25 October 1956, zero = 0.0 Day level = 0.8 evening, (Day level)² = 0.6
 " " = 0.3 morning

Medium Qualities

Low Gain

Time	RA	Divisions	(Divisions) ²	(-) ² less 0.6
800p	2219	2.6	6.8	6.2
20	2239	2.5	6.3	5.8
40	2259	2.4	5.7	5.1
900	2319	2.2	4.8	4.2
20	2339	2.1	4.4	3.8
40	2359	2.0	4.0	3.4
1000	0019	2.0	4.0	3.4
20	0039	1.9	3.6	3.0
40	0059	1.8	3.3	2.7
1100	0119	1.7	2.9	2.2
20	0139	1.5	2.3	1.7
40p		1.2	1.5	
MN		Swells start		

Explanation of this chart similar to chart of 21+22 except
 this chart shows southern source energy 4-7a

31st October 1956 zero = -0.6 Day lead = 0.8 morning (day lead) = 2.0
 " " = 2.2 evening

Medium Quality

Strong atmospheric

Time	RA	Divisions	Net Divisions	(Net Divisions) ²	(-) less 2
1220a	0258	5.8	6.4	41	39
40	0318	5.3	5.9	35	33
100	0338	5.1	5.7	32	30
20	0358	5.0	5.6	31	29
40	0418	4.8	5.4	29	27
200	0438	4.7	5.3	28	26
20	0458	4.3	4.9	24	22
40	0518	4.2	4.8	23	21
300	0538	4.1	4.7	22	20
20	0558	4.0	4.6	21	19
40	0618	3.6	4.2	18	16
400	0638	3.2	3.8	15	13
20	0658	2.8	3.4	12	10
40	0718	2.8	3.4	12	10

For Description see book under date of 30th.

27+28 November 1956, zero = 0.5, DTL = 2.0 at 10P, ± 1.5 at 630A
 Medium Qualities

4+
 900

Hole Open 1A to Sunrise

Time	RA	Divisions	Net Divisions	(Net Div.) ²	DTL	Net DTL	(Net DTL) ²	(-) ² less (-) ²	Percent Maximum
1000p		2.0	1.5	2.3	2.0	1.5	2.3	0	0
20		2.1	1.6	2.6	2.0	1.5	2.3	.3	.4
40		2.4	1.9	3.6	2.0	1.5	2.3	1.3	1.9
1100		2.7	2.2	4.8	2.0	1.5	2.3	2.5	3.7
20		2.8	2.3	5.3	1.9	1.4	2.0	3.3	4.9
40p		2.9	2.4	5.8	1.9	1.4	2.0	3.8	5.7
MN		3.0	2.5	6.3	1.9	1.4	2.0	6.3	9.4
1220a		3.1	2.6	6.8	1.9	1.4	2.0	6.8	10.1
40		3.2	2.7	7.3	1.9	1.4	2.0	5.3	7.9
100		3.0	2.5	6.3	1.9	1.4	2.0	4.3	6.5
20		3.8	3.3	10.9	1.8	1.3	1.7	9.2	13.7
40		5.2	4.7	22.1	1.8	1.3	1.7	20.4	30.3
200		8.2	7.7	59.2	1.8	1.3	1.7	57.5	85.5
120		8.8	8.3	69.0	1.8	1.3	1.7	67.3	100.0
40		8.7	8.2	67.2	1.8	1.3	1.7	65.5	97.3
300		8.5	8.0	64.0	1.8	1.3	1.7	62.3	92.5
20		8.0	7.5	56.2	1.7	1.2	1.4	54.8	81.5
40		6.5	6.0	36.0	1.7	1.2	1.4	34.6	51.4
400		4.7	4.2	17.6	1.7	1.2	1.4	16.2	24.1
20		3.9	3.4	11.6	1.7	1.2	1.4	10.2	15.2
40		3.1	2.6	6.8	1.7	1.2	1.4	5.4	8.0
500		2.4	1.9	3.6	1.7	1.2	1.4	2.2	3.3
20		2.0	1.5	2.3	1.6	1.1	1.2	1.1	1.6
40		1.7	1.2	1.4	1.6	1.1	1.2	.2	.3
600		1.6	1.1	1.2	1.6	1.1	1.2	0	0

4+5 February 1957, Zero = -0.7, DTL = 2.5 at 2A + 1.0 at 7A
 Good Qualities

Hole opens and closes 3A to Sunrise

Time	RA	Divisions	Net Divisions	(Net Div) ²	DTL	Net DTL	(Net DTL) ²	(-) ² loss (-) ²	Percent Maximum
200a		2.5	3.2	10.2	2.5	3.2	10.2	0	0
20		2.4	3.1	9.6	2.4	3.1	9.6	0	0
40		2.4	3.1	9.6	2.3	3.0	9.0	.6	.6
300		4.0	4.7	22.1	2.2	2.9	8.4	13.7	14.0
20		6.4	7.1	50.4	2.1	2.8	7.8	42.6	43.6
40		7.5	8.2	66.2	2.0	2.7	7.3	58.9	60.2
400		9.1	9.8	96.0	1.9	2.6	6.8	89.2	91.3
20		9.5	10.2	104.0	1.8	2.5	6.3	97.7	100.0
40		8.8	9.5	90.3	1.7	2.4	5.8	84.5	86.5
500		5.7	6.4	41.0	1.6	2.3	5.3	35.7	36.5
20		4.5	5.2	27.1	1.5	2.2	4.8	22.3	23.8
40		3.4	4.1	16.8	1.4	2.1	4.4	12.4	12.7
600		2.5	3.2	10.2	1.3	2.0	4.0	6.4	6.5
20		2.0	2.7	7.3	1.2	1.9	3.6	3.7	3.8
40		1.5	2.2	4.8	1.1	1.8	3.2	1.6	1.6
700		1.1	1.8	3.2	1.0	1.7	2.9	.3	.3
20		1.0	1.7	2.9	1.0	1.7	2.9	0	0

9 + 10 Dec 1956
 Medium Quality

$Z_{\text{cor}} = 0.0$

DTL = 2.0 at 5pm

" = 0.5 " 6am

10+
 M

Time	RA	Division	(Div) ²	DTL	(DTL) ²	(-) ² log(-) ²
800p	0116	13.0	169	1.7	2.9	166
20	0136	12.6	159	1.7	2.9	156
40	0156	12.0	144	1.6	2.6	141
900	0216	11.5	132	1.6	2.6	129
20	0236	11.0	121	1.5	2.3	119
40	0256	10.4	108	1.5	2.3	106
1000	0316	9.9	98	1.4	2.0	96
20	0336	9.2	85	1.4	2.0	83
40	0356	8.7	76	1.4	2.0	74
1100	0416	8.1	66	1.3	1.7	64
20	0436	7.5	56	1.3	1.7	54
40p	0456	7.3	53	1.2	1.4	52
MN	0516	7.2	52	1.2	1.4	51
1220a	0536	7.1	50	1.2	1.4	49
40	0556	7.0	49	1.1	1.2	48
100	0616	6.8	46	1.1	1.2	45
20	0636	6.5	42	1.1	1.2	41
40	0656	6.3	40	1.0	1.0	39
200	0716			1.0	1.0	

10+11 December 1956 Zero = 0.0
 Medium Quality

DTL = 4.0 at 6 pm
 " = 0.0 " 6 am

Time	RA	Divisions	(Dio) ²	DTL	(DTL) ²	(-) ² less (+) ²
800p	0120	19.5	380	3.3	11	369
20	0140	18.2	331	3.2	10	321
40	0200	17.3	300	3.1	10	290
900	0220	16.3	265	3.0	9	256
20	0240	15.5	240	2.9	8	232
40	0300	14.6	214	2.8	8	206
1000	0320	13.8	190	2.7	7	183
20	0340	13.0	169	2.6	7	162
40	0400	12.2	149	2.5	6	143
1100	0420	11.5	132	2.3	5	127
20	0440	10.9	119	2.2	5	114
40p	0500	10.0	100	2.1	4	96
MN	0520	9.5	90	2.0	4	86
1220a	0540	9.0	81	1.9	4	77
40	0600	9.0	81	1.8	3	78
100	0620	9.1	83	1.7	3	80
20	0640	9.3	87	1.6	3	84
40	0700	9.6	92	1.5	2	90
200	0720	9.9	98	1.3	2	96
20	0740	10.1	102	1.2	1	101
40	0800	10.5	110	1.1	1	109
300	0820			1.0	1	

5+6 Dec 1956 Zero = 1.2, Day level = 6.2 at 720p
 Poor Quality 9.8 " 600a

11
 60
 20

T
 90
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3

4

Time	RA	Divisions	Hole gradually opens from SS to 2A. Then strong AR.			
1100p		11.0				
20		11.1				
40p		11.2				
MN		11.5				
1220		11.7				
40		11.9				

8+9 Dec 1956, Zero = 0.2, DTL = 2.6 evening
 Medium Quality 0.9 morning.

		Divisions	Net Divisions	(Net Div) ²	Day level	Net Day Level	(Net Day Level) ²	(-) ² less (-) ²
940	0252	6.8	6.6	43.5	2.1	1.9	3.6	40
1000	0312	6.5	6.3	39.6	2.1	1.9	3.6	36
20	0332	6.0	5.8	33.6	2.0	1.8	3.2	30
40	0352	5.7	5.5	30.3	2.0	1.8	3.2	27
1100	0412	5.3	5.1	26.0	1.9	1.7	2.9	23
20	0432	5.1	4.9	24.0	1.9	1.7	2.9	21
40p	0452	4.9	4.7	22.1	1.8	1.6	2.6	20
MN	0512	4.7	4.5	20.4	1.8	1.6	2.6	18
1220a	0532	4.5	4.3	18.5	1.7	1.5	2.3	15
40	0552	4.4	4.2	17.6	1.7	1.5	2.3	15
100	0612	4.2	4.0	16.0	1.6	1.4	2.0	14
20	0632	4.1	3.9	15.2	1.6	1.4	2.0	13
40	0652	4.0	3.8	14.4	1.5	1.3	1.7	13
200	0712	4.0	3.8	14.4	1.4	1.2	1.4	13
20	0732	4.1	3.9	15.2	1.4	1.2	1.4	14
40	0752	4.3	4.1	16.8	1.3	1.1	1.2	15
300	0812	4.3	4.1	16.8	1.2	1.0	1.0	16
20	0832	4.4	4.2	17.6	1.1	.9	.8	17
40	0852	4.5	4.3	18.5	1.1	.9	.8	18
400	0912							

11 + 12 Jan 1957. Day level = 7.0 all time. (Net Day level)² = 28

Good Quality.

Zero = 1.7

Time	RA	Division	Net Division	Net Division ³	(-) ² less 28
900p	0426	12.6	10.9	119	91
20	0446	12.0	10.3	106	78
40	0506	11.2	9.5	90	62
1000	0526	10.9	9.2	85	57
20	0546	10.4	8.7	76	48
40	0606	10.1	8.4	71	43
1100	0626	9.9	8.2	67	39
20	0646	9.7	8.0	64	36
40p	0706	9.6	7.9	63	35
MIN	0726	9.5	7.8	61	33
1220a	0746	9.4	7.6	58	30
40	0806	9.6	7.9	63	35
100	0826	9.9	8.1	66	38
20	0846	10.2	8.5	72	44
40	0906	10.4	8.7	76	48
200	0926	10.6	8.9	79	51
20	0946	10.9	9.2	85	57
40	1007	11.2	9.5	90	62
300	1027	11.4	9.7	94	66
20	1047	12.3	10.6	112	84
40	1107	13.2	11.5	132	104
400	1127	14.0	12.3	151	123

23 & 24 September 1956. Zero level - 0.3 Day level - 0.1
 (Net Day level) = .04
 Good Quality

Time	RA	Divisions	Net Divisions	(Net Divisions)
1000P	2213	4.1	4.4	19.4
20	2233	3.9	4.2	17.7
40	2253	3.9	4.2	17.7
1100	2313	3.8	4.1	16.8
20	2333	3.7	4.0	16.0
40	2353	3.6	3.9	15.2
MN	0013	3.3	3.6	13.0
20	0033	3.2	3.5	12.3
40	0053	3.0	3.3	10.9
100	0113	2.9	3.2	10.2
20	0133	ripples		
40	0153			
200	0213			
20	0233			
40	0253			
300	0313			
20	0333	∇		
40	0353	2.1	2.4	5.8
400	0413	2.0	2.3	5.3
20	0433	1.9	2.2	4.9
40	0453	1.9	2.2	4.9
500	0513	1.7	2.0	4.0
20	0533	1.6	1.9	3.6
40	0553	1.3	1.6	2.6
600	0613	1.2	1.5	2.3

21 August 196. 2 eroded 0.0; Day level = 1.0, (Day level)² = 1.0
 Poor quality with swells, Hole partly closed after MN + completely at 4A.
 abrupt start 26 min before sunset.

Time	RA	Divisions	(Net Divisions) ²
600P	1603	5.1	26
20	1623	5.3	28
40	1643	5.5	30
700	1703	5.7	33
20	1723	5.8	34
40	1743	5.9	35
800	1803	6.0	36
20	1823	6.1	37
40	1843	6.4	41
900	1903	6.7	45
20	1923	7.1	50
40	1943	7.7	59
1000	2003	8.2	67
20	2023	8.8	77
40	2043	9.1	83
1100	2103	9.7	94
20	2123	10.0	100
40	2143	10.3	106
MN	2203	10.5	110

17+18 Jan 1957 Zero = 0.5 Day level = 8.0 in evening at 8P (net DTL) = 56
 Medium Quality = 6.0 in morning at 8A (net DTL) = 30

Time	RA	Divisions	Net Divisions	(Net Divisions) ²	Day level	Net Day Level	(Net Day Level) ²	(-) ² line (-)
800p	0350	9.0	8.5	72	8.0	7.5	56	16
20	0410	9.8	9.3	87	8.0	7.5	56	21
40	0430	10.6	10.1	102	7.9	7.4	55	47
900	0450	11.4	10.9	119	7.9	7.4	55	64
20	0510	12.2	11.7	137	7.8	7.3	53	84
40	0530	12.9	12.2	148	7.7	7.2	52	96
1000	0550	13.7	13.2	174	7.7	7.2	52	122
20	0610	14.7	14.2	202	7.6	7.1	50	152
40	0630	16.0	15.5	240	7.6	7.1	50	190
1100	0650	16.8	16.3	266	7.5	7.0	49	217
20	0710	18.0	17.5	306	7.5	7.0	49	257
40p	0730	19.3	18.8	354	7.4	6.9	48	306
MN	0750	20.4	19.9	396	7.4	6.9	48	348
1220a	0810	21.8	21.3	454	7.3	6.8	46	408
40	0830	22.3	21.8	475	7.2	6.7	45	430
100	0850	22.9	22.4	501	7.2	6.7	45	456
20	0910	23.5	23.0	530	7.1	6.6	44	486
40	0931	25.0	24.5	600	7.1	6.6	44	556
200	0951	26.0	25.5	650	7.0	6.5	42	608
20	1011	27.7	27.2	740	7.0	6.5	42	698
40	1031	28.4	27.9	778	6.9	6.4	41	737
300	1051	28.8	28.3	800	6.9	6.4	41	759
20	1111	29.4	28.9	836	6.8	6.3	40	796
40	1131	30.6	30.1	907	6.7	6.2	38	869
400	1151	31.3	30.8	950	6.7	6.2	38	912
20	1211	32.0	31.5	992	6.6	6.1	37	955
40	1231	32.6	32.1	1032	6.6	6.1	37	995
500	1251	33.4	32.9	1083	6.5	6.0	36	1047
20	1311	33.7	33.2	1104	6.5	6.0	36	1068
40	1331	32.0	31.5	992	6.4	5.9	35	957
600	1351	27.0	26.5	702	6.4	5.9	35	667

21+22 January 1957 $Z_{\text{ero}} = 0.5$ DTL = 5.0 at 8P
 " = 2.2 at 9A
 Good Qualities

1+

Time	RA	Division	Net Div	(Net Div) ²	Day Level	(Net Day Level)	(Net Day Level) ²	(-) ² less (-)	T
1000p	0605	6.1	5.6	31	4.6	4.1	17	14	10
20	0625	7.0	6.5	42	4.5	4.0	16	26	
40	0645	7.2	6.7	45	4.4	3.9	15	30	
1100	0705	7.6	7.1	50	4.4	3.9	15	35	1
20	0725	7.5	7.0	49	4.3	3.8	14	35	
40p	0745	7.5	7.0	49	4.2	3.7	14	35	
MN	0805	7.7	7.2	53	4.1	3.6	13	40	
20a	0825	8.3	7.8	61	4.1	3.6	13	48	
40	0845	8.5	8.0	64	4.0	3.5	12	52	
100	0905	8.6	8.1	66	3.9	3.4	12	54	1
20	0925	9.0	8.5	72	3.9	3.4	11	61	
40	0945	9.4	8.9	79	3.8	3.3	11	68	
200	1005	9.3	8.8	78	3.7	3.2	10	68	2
20	1025	9.5	9.0	81	3.7	3.2	10	71	
40	1045	9.9	9.4	88	3.6	3.1	10	78	
300	1105	10.1	9.6	92	3.5	3.0	9	83	3
20	1125	10.5	10.0	100	3.5	3.0	9	91	
40	1145	10.9	10.4	108	3.4	2.9	8	100	
400	1205	10.9	10.4	108	3.3	2.8	8	100	4
20	1225	9.0	8.5	72	3.3	2.8	8	64	
40	1245	8.0	7.5	56	3.2	2.7	7	49	
500	1305	6.7	6.2	39	3.1	2.6	7	32	5

122 February 1957 $Z_{\text{crit}} = 0.3$ DTL = 11.2 at 10P
 = 9.0 at 9A

Time	RA	Dist _{obs}	Net Dist _{obs}	(Net Dist _{obs}) ²	DTL	Net DTL	(Net DTL) ²	(-) ² for (-)
1000	650	11.7	11.4	130	11.2	10.9	118	12
20	710	13.0	12.7	161	11.1	10.8	117	44
40	730	13.6	13.3	177	11.1	10.8	116	61
1100	750	14.8	14.5	210	11.0	10.7	115	95
20	810	16.0	15.7	246	11.0	10.7	114	132
40p	830	17.2	16.9	285	10.9	10.6	112	173
MN	850	18.8	18.5	343	10.8	10.5	110	233
20a	910	19.5	19.2	369	10.8	10.5	110	259
40	930	19.9	19.6	385	10.7	10.4	108	277
100	950	20.0	19.7	389	10.6	10.3	106	283
20	1010	20.5	20.2	408	10.6	10.3	106	302
40	1030	21.5	21.2	450	10.5	10.2	104	346
200	1050	22.7	22.4	501	10.4	10.1	102	399
20	1110	23.3	23.0	530	10.4	10.1	102	428
40	1130	24.0	23.7	562	10.3	10.0	100	462
300	1150	25.0	24.7	610	10.2	9.9	98	512
20	1210	25.5	25.2	635	10.2	9.9	98	537
40	1230	25.8	25.5	650	10.1	9.8	96	554
400	1250	26.6	26.3	691	10.0	9.7	94	597
20	1310	27.0	26.7	713	10.0	9.7	94	619
40	1330	26.5	26.2	688	9.9	9.6	92	596
500	1350	24.8	24.5	600	9.8	9.5	90	510
20	1410	24.2	23.9	571	9.8	9.5	90	481
40	1430	22.0	21.7	472	9.7	9.4	88	384

1+2 March 1957 Zero = 0.8 DTL = 7.5 at 630p
 = 5.5 at 730a
 Medium qualities

2
 5

Time	RA	Declination	Net Dist	(Net Dist) ²	DTL	Net DTL	(Net DTL) ²	(-) ² Net(-)
730p	0613	12.2	11.4	130	7.3	6.5	42	88
40	0623	12.0	11.2	126	7.3	6.5	42	84
800	0643	11.4	10.6	112	7.2	6.4	41	71
20	0703	10.9	10.1	102	7.2	6.4	41	61
40	0723	11.2	10.4	108	7.1	6.3	40	68
900	0743	11.8	11.0	121	7.1	6.3	40	81
20	0803	12.7	11.9	142	7.0	6.2	39	103
40	0823	13.0	12.2	149	7.0	6.2	39	110
1000	0843	13.6	12.8	164	6.9	6.1	37	127
20	0904	14.2	13.4	179	6.9	6.1	37	152
40	0924	14.7	13.9	193	6.8	6.0	36	157
1100	0944	15.1	14.3	205	6.8	6.0	36	169
20	1004	15.3	14.5	210	6.7	5.9	35	175
40p	1024	15.7	14.9	222	6.7	5.9	35	187
MN	1044	16.0	15.2	231	6.6	5.8	34	197
20a	1104	16.1	15.3	234	6.6	5.8	34	200
40	1124	16.2	15.4	237	6.5	5.7	33	204
100	1144	16.1	15.3	234	6.5	5.7	33	201
20	1204	16.1	15.3	234	6.4	5.6	31	203
40	1224	16.2	15.4	237	6.4	5.6	31	206
200	1244	16.5	15.7	246	6.3	5.5	30	216
20	1304	16.8	16.0	256	6.3	5.5	30	226
40	1324	17.1	16.3	265	6.2	5.4	29	236
300	1344	17.4	16.6	275	6.2	5.4	29	246
20	1404	17.9	17.1	293	6.1	5.3	28	265
40	1424	18.7	17.9	320	6.1	5.3	28	292
400	1444	19.2	18.4	339	6.0	5.2	27	312
20	1505	19.7	18.9	358	6.0	5.2	27	331
40	1525	20.1	19.3	369	5.9	5.1	26	343
500	1545	21.0	20.2	408	5.9	5.1	26	382
20	1605	21.7	20.9	436	5.8	5.0	25	411
40	1625	22.0	21.2	446	5.8	5.0	25	421

29 March 1957,
Good Quality

$\bar{z}_{avr} = 0.0$, DTL = 2.5 at 8P
1.9 at 8A

Time	RA	Distances	(Distances) ²	DTL	(DTL) ²	(-) ² less (-) ²
1200	1351	4.0	16.0	2.2	4.9	11.1
40	1411	4.0	16.0	2.2	4.9	11.1
200	1431	4.1	16.8	2.2	4.8	12.0
20	1451	4.2	17.6	2.2	4.8	12.8
40	1511	4.3	18.5	2.2	4.7	13.8
300	1531	4.5	20.3	2.1	4.6	15.7
20	1551	4.7	22.1	2.1	4.5	17.6
40	1611	4.8	23.0	2.1	4.4	18.6
400	1631	5.0	25.0	2.1	4.4	20.6
20	1651	5.1	26.0	2.1	4.3	21.7
40	1711	5.2	27.0	2.1	4.2	22.8
500	1731	5.4	29.2	2.0	4.0	25.2
20	1751	4.0	16.0	2.0	4.0	12.0
40	1811	3.2	10.2	2.0	4.0	6.2
600	1831	2.3	5.3	2.0	4.0	1.3

9 April 1957 $\bar{z}_{\text{obs}} = 0.0$, DTL = 3.1 at 8P
 1.3 at 8A.
 Medium quality

Time	RA	Distances	(Dist) ²	DTL	(DTL) ²	(-) ² Dist(-) ²
120	1435	5.2	26.0	2.2	4.8	21.2
40	1455	5.3	28.1	2.2	4.8	23.3
200	1515	5.5	30.3	2.2	4.8	25.5
20	1535	5.6	31.4	2.2	4.8	26.6
40	1555	5.5	30.3	2.1	4.4	25.9
300	1615	5.4	29.2	2.1	4.4	24.8
20	1635	5.6	31.4	2.1	4.4	27.0
40	1655	6.1	37.2	2.1	4.4	32.8
400	1715	7.0	49.0	2.0	4.0	45.0
20	1735	7.0	49.0	2.0	4.0	45.0
40	1755	7.0	49.0	2.0	4.0	45.0
500	1815	6.9	47.6	2.0	4.0	43.6
20	1835	6.7	45.0	1.9	3.6	41.4
40	1855	7.0	49.0	1.9	3.6	45.4
600	1915	7.2	51.8	1.9	3.6	48.2
20	1935	7.4	54.8	1.9	3.6	51.2
40	1955	6.9	47.6	1.8	3.2	41.4
700	2015	6.0	36.0	1.8	3.2	32.8
20	2035	5.6	25.0	1.8	3.2	21.8
40	2055	4.2	17.6	1.8	3.2	14.4

12 April 1957, $Z_{\text{error}} = 0.0$, $DTL = 2.5 \text{ at } 6P$
 Good Qualities } $\text{avg } 2.2$, $DTL^2 = 4.8$
 = $2.0 \text{ at } 8A$
 Really just swells when plotted up.

Time	RA	Divisions	$(Div)^2$	$\frac{(Div)^2}{\text{base}(DTL)^2}$
1220	1347	3.2	10.2	5.4
40	1407	3.1	9.6	4.8
100	1427	3.0	9.0	4.2
20	1447	3.0	9.0	4.2
40	1507	3.1	9.6	4.8
200	1527	3.2	10.2	5.4
20	1547	3.5	12.3	7.5
40	1607	3.8	14.5	9.7
300	1627	3.8	14.5	9.7
20	1647	3.3	10.9	6.1
40	1707	3.0	9.0	4.2
400	1727	3.0	9.0	4.2
20	1747	3.2	10.2	5.4
40	1807	3.5	12.3	7.5
500	1827	3.7	13.7	8.9
20	1847	3.8	14.5	9.7
40	1907	4.2	17.7	12.9
600	1927	4.1	16.8	12.0
20	1947	3.5	12.3	7.5
40	2007	3.3	10.9	6.1
700	2027	3.0	9.0	4.2

13 April 1957 Zero = 1.5 DTL = 5.0 at 5P Net DTL = 3.5
 = 2.0 at 9A Net DTL = 0.5

26
 Med

Good Quality
 Rally just the hole opening and closing.

Time	RA	Distance	(Net Pair)	(Net Dist) ²	Net DTL	(Net DTL) ²	(-) ² line (-) ²
MN	1331	4.3	2.8	7.8	2.2	4.8	3.0
1200a	1351	4.5	3.0	9.0	2.1	4.4	4.6
40	1411	4.7	3.2	10.3	2.1	4.4	5.9
100	1431	5.0	3.5	12.3	2.0	4.0	8.3
20	1451	5.1	3.6	13.0	2.0	4.0	9.0
40	1511	5.2	3.7	13.7	1.9	3.6	10.1
200	1531	5.5	4.0	16.0	1.8	3.2	12.8
20	1551	5.8	4.3	18.5	1.8	3.2	15.3
40	1611	6.0	4.5	20.3	1.7	2.9	17.4
300	1631	6.2	4.7	22.1	1.6	2.6	19.5
20	1651	6.9	5.4	29.2	1.6	2.6	25.6
40	1711	7.0	5.5	30.3	1.5	2.3	28.0
400	1731	7.1	5.6	31.5	1.5	2.3	29.2
20	1751	7.3	5.8	33.6	1.4	2.0	31.6
40	1811	7.2	5.7	32.5	1.3	1.7	31.8
500	1831	6.5	5.0	25.0	1.3	1.7	23.3
20	1851	5.8	4.3	18.5	1.2	1.4	17.1
40	1911				1.1	1.2	
					1.0	1.0	
					1.0	1.0	

26 May 1957
Medium Quality

Zero = -0.5 DTL = 3.0 at 4P, Net DTL = 3.5
" : 0.0 at 9A " " = 0.5

Time	RA	Distances	(Net Dist)	(Net Dist) ²	Net DTL	(Net DTL) ²	(-) ² less (-) ²
100a	1720	4.6	5.1	26.0	2.0	4.0	22.0
20	1740	4.9	5.4	29.2	2.0	4.0	25.2
40	1800	5.7	6.2	38.5	1.9	3.6	34.9
200	1820	6.9	7.4	54.8	1.8	3.3	51.5
20	1840	7.6	8.1	65.7	1.8	3.3	62.4
40	1900	8.1	8.6	74.0	1.7	2.9	71.1
300	1920	8.2	8.7	75.8	1.7	2.9	72.9
20	1940	8.7	9.2	85.5	1.6	2.6	82.9
40	2000	9.0	9.5	90.2	1.6	2.6	87.6
400	2020	9.1	9.6	92.1	1.5	2.3	89.8
20	2040	9.2	9.7	94.0	1.4	2.0	92.0
40	2100	9.5	10.0	100.0	1.4	2.0	98.0
500	2120	9.6	10.1	101.2	1.3	1.7	98.5
20	2140	9.9	10.4	100.8	1.3	1.7	99.1
40	2200	9.9	10.4	100.8	1.2	1.4	99.4
600	2220	8.8	9.3	86.4	1.2	1.4	85.0
20	2240	7.5	8.0	64.0	1.1	1.2	62.8
40	2300	6.1	6.6	43.5	1.0	1.0	42.5
700	2320	4.7	5.2	27.0	1.0	1.0	26.0

30 May 1957
Good Quality

Zero = 0.0

DTL = 5.0 at 6P
1.0 at 10A

2
G

Time	RA	Division	(Net Div)	(Net Div) ²	Net DTL	(Net DTL) ²	(-) ² less (-) ²
140a	1816	3.9		15.2	3.1	9.6	5.6
200	1836	4.0		16.0	3.0	9.0	6.0
20	1856	4.0		16.0	2.9	8.4	7.6
40	1916	4.1		16.8	2.8	7.8	9.0
300	1936	4.1		16.8	2.7	7.3	9.5
20	1956	4.1		16.8	2.7	7.3	9.5
40	2016	4.2		17.6	2.6	6.8	10.8
400	2036	4.1		16.8	2.5	6.3	10.5
20	2056	4.1		16.8	2.4	5.8	11.0
40	2116	4.2		17.6	2.3	5.3	12.3
500	2136	4.3		18.5	2.2	4.9	13.6
20	2156	4.5		20.3	2.2	4.9	15.4
40	2216	4.7		22.1	2.1	4.4	17.7
600	2236	4.6		21.2	2.0	4.0	17.2
20	2256	4.6		21.2	1.9	3.6	17.6
40	2316	4.1		16.8	1.8	3.3	13.5
700	2336	3.8		14.5	1.7	2.9	11.6
20	2356	3.4		11.6	1.7	2.9	8.7
40	0016	2.9		8.4	1.6	2.6	5.8
800	0036	2.5		6.3	1.5	2.3	4.0

2 June 1957
Good Quality

$Z_{100} = -0.5$ DTL = 3.5 at 5p.
" = 0.1 at 10a

Time	RA	Dimensions	Net Div	(Net Div) ²	Net DTL	(Net DTL) ²	(-) ² loss (-) ²
1240a	1728	4.4	5.2	27.0	2.7	7.3	19.7
100	1748	4.5	5.3	28.1	2.7	7.3	20.8
20	1808	4.5	5.3	28.1	2.6	6.8	21.3
40	1828	4.6	5.4	29.2	2.5	6.3	22.9
200	1848	4.6	5.4	29.2	2.5	6.3	22.9
20	1908	4.7	5.5	30.3	2.4	5.8	24.5
40	1928	4.7	5.5	30.3	2.3	5.3	25.0
300	1948	4.7	5.5	30.3	2.3	5.3	25.0
20	2008	4.7	5.5	30.3	2.2	4.8	25.5
40	2028	4.6	5.4	29.2	2.1	4.4	24.8
400	2048	4.5	5.3	28.1	2.1	4.4	23.7
20	2108	4.5	5.3	28.1	2.0	4.0	24.1
40	2128	4.7	5.5	30.3	1.9	3.6	26.7
500	2148	5.0	5.8	33.5	1.9	3.6	29.9
20	2208	5.0	5.8	33.5	1.8	3.2	30.3
40	2228	4.9	5.7	32.5	1.8	3.2	30.3
600	2248	4.8	5.6	31.5	1.7	2.9	28.6
20	2308	4.6	5.4	29.2	1.7	2.9	26.3
40	2328	4.2	5.0	25.0	1.6	2.6	22.4
700	2348	4.0	4.8	23.0	1.5	2.3	20.7
20	0008	3.7	4.5	20.3	1.4	1.9	18.4
40	0028	2.8	3.6	13.0	1.3	1.7	11.3
800	0048	1.0	1.8	3.2	1.3	1.7	1.5

Phenomena Ripples Night Ripples

Midnight	Day	at Night	period	
Date	Magnitude	Date	Duration	
13/3/57	Continuing rise aft. day - after 4P	7-8/1/57	MN-330a	30m poor
		2-3/3/57	830P-1a	1 hr fair.
		22/3/57	230-4A	7-15m fair + strong
		23/3/57	330-550a	20m strong + irregular
		23/3/57	830P-630a	Two long swells of period. 5 hours. Rough Top. irregular 20-40m
		28/3/57	MN-dawn.	5m period fair
		14/4/57	9P-MN	10m period Good
		15/4/57	130-3A	1 hr period. Poor + rough
		15-16/4/57	730P-230A	
		11/4/57	230-630	40m good.

Day	Ripples with R.S.	Day Ripples
13/8/56	130-330P	13/4/57 545-11A + N-530P. fair.
23/8/56	7a-2P	17/4/57 130-520P
24/8/56	11a-5P	
27/8/56	7-8a	
4/10/56	9a-1p	
16/10/56	8a-2p	
2/11/56	5-8a	
4/11/56	1-8a	
"	3-730p	
10/11/56	430-730a	
16/11/56	N-230p.	26/10/56 2-5P 45m fair
17/11/56	240-11a	
18/11/56	530-10p	

30m-20m
Good + decreasing.

Phenomena

Midnight Peak		Day Level at Night		Polar Blackout	
Date	Magnitude	Date	Duration	Date	Time
13-14/8/56	18 Rough			19/8/56	300-430a
15-16/8/56	14 Medium			20/8/56	1230a-dawn
21-22/8/56	12 Rough	22/8/56	To 9P	25/8/56	1230-230a + 330a-dawn
23-24/8/56	15 Rough	25/8/56	To 11P	26/8/56	300a-dawn
24-25/8/56	8 Very short	28-9/8/56	all night, ^{small} swells	23/9/56	230a-dawn
25-26/8/56	3 " "	29-30/8/56	all night Very smooth	28/10/56	2a-dawn
21-22/9/56	3 Very short Very smooth	2/9/56	To 9P	13/11/56	up to 10P
22-23/9/56	5 smooth	6/10/56	to 10P	18-19/11/56	10P-dawn
30/9/56	7 rough.	8/10/56	to 920P		
2-3/10/56	10 fair	10/10/56	to 10P		
5-6/10/56	10 Good	22/10/56	to 9P		
18-19/10/56	10 ^{+ short} Rough	25/10/56	to MN		
19-20/10/56	5 fair	4-5/11/56	to 1a		
20-21/10/56	7 Rough	6-7/11/56	9P + MN		
21-23/10/56	7 "	11-12/11/56	all night		
24-5/10/56	10 Poor	13-14/11/56	1150 p-dawn		
27-8/10/56	7 short ^{Rough}	14-15/11/56	most of night		
31/10-1/11/56	5 ^{Broad} smooth	18-19/11/56	10P-dawn		
22-3/11/56	2 Rough	27-8/11/56	to 1a		
23-4/11/56	5 Good	30/11-1/12/56	all night, Few swells		
7-8/12/56	15 Fair	8-9/12/56	strong atmospheric		
11-12/12/56	10 Fair				
15-16/12/56	15 Fair				
16-17/12/56	4 Poor				

Phenomena

Ripples

Date	Duration	Period
15/8/56	1230-530a	40 min?
16-17/8/56	1040P-330a	30 min ^{clear} fair
18-19/8/56	1100P-530a	45 min fair
19-20/8/56	9-10P	4 min. good
20/8/56	620a-130p	50 min clear
23/8/56	11a-5p	40 min poor
24/8/56	1230-5a	40 min poor
25/9/56	10P-530a	105 min fair
27-28/9/56	730-1030P	5 min good
29/9/56	620p-600a	290 min fair
1-2/10/56	830a-5p	50 min fair
4/10/56	640-920p	4 min good
12/10/56	1230-310a	6 min fair
13/10/56	830a-700p	40 min poor
16-17/10/56	850p-115a	5 min poor
17/10/56	630-1120p	6 min poor
18-19/10/56	11P-120a	5 min poor
23/10/56	240-5a	2 min fair
2/11/56	145a-440a	15 min fair
3/11/56	225-430a	9 min good
3-4/11/56	11P-4a	70 min fair
4/11/56	4-830a	18 min poor
"	430-730P	30 min fair
5-6/11/56	830-1130P	10 min good
9-10/11/56	1040P-1220a	4m good
"	1040p-330a	50m fair
10-11/11/56	830p-540a	80m fair
12-13/11/56	1110p-440a	25m fair
22/11/56	MN-SR	20m poor
23-4/11/56	830p-230a	90m good
25/11/56	640-810a	12m good
6/12/56	215-425a	5m good
"	10p-MN	10m good

Large PM rise

Date | Magnitude

Southern Swells

Date | Time

		23/8/56	5-9a
		10/10/56	215a-lower
		16/10/56	130-930a
		18/10/56	8a-6p
		2/11/56	6-8a
2/12/56	8 divisions	4/11/56	9a-1p
6/12/56	4 "	16-17/11/56	5p-8a
7/12/56	4 "	6/12/56	5-10p
Double bumps		13/12/56	530-10a
13/1/57			

← probably best of 10 min period.

- 12-13/11/56 antenna will wear source. AR swells start abruptly at 1110P and continue to 220g. Amplitude ~~decreases~~ decrease from 5 div to zero + period decrease from 45 m to 20m
- 15/11/56 Hole probably stays closed all night. Strong RS 1130P-230a. Probably SoSo causing rise starting at 10m after SS and ending 1/2 hr after SR. Very like a day record.
- 2-3/10/56 Shutter opens a bit near MN. AR swells start abruptly at 2AM + continue to dawn.
- 4-5/11/56 Shut to 1A. Gradual rise + fall 1-5a centered on 3A. Rough with AR bits.
- 9/10/56 Steady smooth rise all day.
- 13/10/56 " " " " " " , even better
- 13/1/57 Smooth double rise in day. 9A + 130P
- 28/3/57 Slight decrease all day, fairly smooth. Galaxy?