

Measured at 893 mc.

Date 6-4 6-5 6-7 6-8 6-10

Time Scale deflection in Percent

1137P

94

38

94

39

94

40

93

41

93

42

92

43

91

44

90

45

91

46

90

47

89

48

88

49

87

50

86

51

86

52

86

53

86

54

86

55

86

56

85

57

85

58

85

59

84

Data not comparable from day to day as different amount of gain and therefore case used.

Date	6-4	6-5	6-7	6-8	6-11									
Time	Scale deflection in percent													

12 MN

01

02

03

04

05

06

07

08

09

10

11

12

13

14

15

16

17

18

19

20

21

22

84

84

83

83

83

81

81

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80

80

80

80

79

79

78

78

78

78

78

96

78

97

96

77

97

96

77

97

96

94

77

Date

6-4 6-5 6-7 6-8 6-11

Time

Scale deflection in percent.

12	23	98	97	95	77
24		99	98	94	77
25		99	98	94	77
26		99	98	95	77
27		100	98	94	77
28		100	97	94	76
29		98	97	94	76
30		98	97	94	76
31		98	97	93	
32		97	97	93	
33		98	97	93	
34		98	97	92	
35	90	97	97	92	
36	92	97	97	92	
37	92	97	97	92	
38	93	97	96	92	
39	91	97	96	92	
40	91	97	96	91	
41	92	97	96	91	
42	91	96	96	91	
43	90	96	96	91	
44	89	96	96	91	
45	88	96	96	91	

Date 6-4 | 6-5 | 6-7 | 6-8 | | | | | | | |

Time Scale deflection in percent.

12	46	88	97	97	90
47	89	97	97	90	
48	89	96	96	90	
49	87	96	96	90	
50	87	96	97	91	
51	88	96	96	91	
52	88	96	97	91	
53	89	96	97	91	
54	87	97	97	91	
55	87	96	96	91	
56	89	96	97	91	
57	89	97	97	91	
58	88	96	98	92	
59	89	96	98	93	
01	00	88	96	97	95
01	89	97	97	95	
02	91	96	98	94	
03	95	96	99	91	
04	92	96	99	91	
05	88	96	99	90	
06	86	96	100	91	
07	84	95	101	91	
08	83	95	101	92	

Date

6-4

6-5

6-7

6-8

Time

Scale Deflection in percent.

01 09 82 95 102 92

10 81 95 105 93

11 80 95 110 93

12 80 95 130 93

13 80 95 140 91

14 79 95 160 88

15 79 95 190 86

16 79 210 85

17 78 180 85

18 78 170 84

19 79 150 86

20 79 140 85

21 78 130 85

22 78 120 84

23 78 110 84

24 78 103 83

25 78 100 82

26 78 99 82

27 78 97 81

28 78 95 81

29 78 93 81

30 78 91 82

31 78 92 82

Date 6-4 | 6-5 | 6-7 | 6-8 | | | | | | | |

Time Scale Deflection in Percent.

132 78 91 82

33 77 90 81

34 77 90 81

35 76 89 80

36 76 90

37 76 89

38 76 89

39 89

40 88

41 88

42 88

43

44

45

46

47

48

49

50

51

52

53

54

These readings on horizontal component.

Notes. Frequency 893 mc

Date

6-4

Subtract 2 minutes from time as clock was fast.
Aperture $5\frac{1}{2}$ " dia + $\frac{3}{8}$ " above focal plane.
Light rain in progress 1235-1258 + 0112-0120.
Gradual decline due to batteries running down.
Rise at 0102-0104 may be spurious.
Declination - 28°

6-5

Aperture $5\frac{1}{2}$ " dia + $\frac{3}{8}$ " above focal plane.
Weather clear; can see tea kettle easily.
Declination - 28°

6-7

Aperture $5\frac{1}{2}$ " dia + 1" above focal plane
Weather overcast with heavy clouds.
Gradual decline due to batteries running down
Declination - 28°
 $22\frac{1}{4}$ " from bottom edge of steel angle to edge of rail.
Readings 0105-0129 probably spurious

6-8

Aperture $5\frac{1}{2}$ " dia + 1" above focal plane
Weather nearly clear. Very few light clouds.
Declination - 28°
 $22\frac{1}{2}$ " from bottom edge of steel angle to edge of rail.
Gradual decline at end due to batteries.

6-11 Aperture $5\frac{1}{2}$ " dia & 1" above focal plane.
Weather heavily clouded with only a
bright spot showing full moon.

Declination - 29°

The gradual decline due to running
down of batteries which are about worn out.
This run definitely proves that stellar static
at 893 mc far below available sensitivity.
The small ups & downs including large one
of 6-7 are due to noise generated in
detector tubes which at times is
nearly continuous and is not previously
recognized for its true worth. The 955s
are quite definitely poor tubes for use
ahead of a high gain amplifier. This
noise manifests itself sometimes as a
sputtering or crackling which can easily
be heard but more often as a continuous
grumbling at quite low pitch which
makes a reading but is not easily heard.

Date 6-4 6-5 6-6 6-7

Time	Scale Deflection in Percent
0	0
10	0
20	0
30	0
40	0
50	0
60	0
70	0
80	0
90	0
100	0

Date 6-4 6-5 6-6 6-7

Time Scale Deflection in Percent

53	99	97	94	91
54	101	97	95	90
55	100	97	94	90
56	99	98	94	90
57	98	97	94	89
58	98	97	94	89
59	98	96	94	89
12 Noon	97	97	94	89
01	98	98	94	89
02	97	98	94	89
03	98	98	94	89
04	97	98	94	90
05	97	97	93	90
06	97	97	93	89
07	96	98	93	91
08	97	98	93	89
09	97	99	93	89
10	96	99	93	89
11	96	98		87
12	97	98		88
13	97	98		88
14	97	98		88
15	97	97		88

Date

Notes

Freq 893mc.

6-4 Aperture $5\frac{1}{2}$ " dia + $\frac{3}{8}$ " above focal plane.
Weather clear.

Sun crosses meridian 1151 by visual observation slightly above focus.

6-5 Aperture $5\frac{1}{2}$ " dia + $\frac{3}{8}$ " above focal plane.
Weather clear.

Sun crosses meridian 1151 by visual observation directly across focus.

6-6 Aperture $5\frac{1}{2}$ " dia + 1" above focal plane.
Weather partly cloudy.

Sun transits at 1151 slightly below focus.

6-7 Aperture $5\frac{1}{2}$ " dia + 1" above focal plane.
Weather clear.

Sun transits at 1151 $\frac{1}{2}$ by observation directly across focus.

6-4 From page 84 of Fath's Almanac
Apparent time 2 min ahead of mean time

Sun transits at $12:00 - 7.5 - 2 = 11:50\frac{1}{2}$
by calculation. Therefore the machine
points 1 minute in time or $\frac{1}{4}$ degree
to west of south.