

7762-A 8.23 +46 +11 200" 202⁴²

17 15.10 1.11 0.55

11 12.70 +1.75 +1.49

12 12.83 2.14 2.13

14 11.43 1.69 1.43

14A 14.89 1.24 0.56

15 15.83 1.51 0.98

12132

8.22 + 42 + 06

60" 26 Aug 62

14012163

8.22 + 0.33 + 0.06 = 8.61

8.22 + 44 + 01 = 52.63

6913 -1

8.58	+0.43	+0.07	26 Aug 63 200"
8.59	+0.43	+0.08	27 Aug 63 200"
8.59	+0.43	+0.07	25 Aug 63 200"
8.59	+0.43	+0.08	J
8.59	+0.43	+0.06	200" 16 July 63
8.58	+0.44	+0.08	60" Jun 60
8.60	+0.43	+0.10	28 Jun 62 100"
8.58	+0.43	+0.10	29 " " "
8.59	+0.43	+0.08	60" Aug 25
8.63	+0.42	+0.08	60" 26 Sept
8.59	+0.41	+0.09	60" 15 May 63
8.65	+0.41	+0.06	200" 13 July 43
8.54	+0.52	+0.01	" " "
8.57	+0.44	+0.06	" 18 "

6913-2 $\begin{pmatrix} 9.00 & +0.84 & -0.04 & 16 \text{ July } 63 \text{ } 200'' \\ 8.96 & +0.90 & -0.13 & J \end{pmatrix}$

8.95 +0.83 -0.12 18 July 63 200''

8.97 +0.85 -0.13 } 60" June 26

8.95 +0.85 -0.11 }

8.94 +0.84 -0.13 200" July 15 1963

8.97 +0.84 -0.15 } June 27

8.96 +0.85 -0.12 }

9.00 +0.83 -0.14 28 June 100" (over)

9.00 +0.83 -0.13 29 " "

9.01 +0.83 -0.11 25 Aug 60"

9.98 +0.84 -0.15 60" 26 Sept

8.95 +0.90 -0.20 60" 15 May

8.44 + 0.84 - 0.12	200'' 28 Aug 63
9.01 + 0.84 - 0.13	" 25 " 63
8.98 + 0.84 - 0.12	" 26 " 63

8.88 +0.89 0.00 200" 14 July 63 200"
6913-3 (8.89 +0.91 -0.05 J)

8.85 +0.92 -0.07 200" 18 July 63

8.87 +0.90 -0.06 26 June 60"

8.87 +0.91 -0.08 } 27

8.86 +0.90 -0.06 }

8.90 +0.89 -0.06 28 June 62 100"

8.89 +0.89 -0.07 29 " "

8.90 +0.90 -0.07 60" Aug 25

8.88 +0.89 -0.08 60" 26 Sept

8.86 +0.89 -0.08 60" 15 May 63

8.87 +0.90 -0.06 200" 18 Aug 63

~~9.67 + 0.37~~ ~~10.14~~ — 26 Aug 63 202
8.91 + 0.30 - 0.05
8.88 + 0.30 - 0.05 27 Aug 63 202

6913-4 (8.93 +0.78 -0.18 J)

8.92 +0.78 -0.19 60" Jun 26
8.92 +0.79 -0.21 27
8.93 +0.76 -0.20 160" 29 Jun 62

6913-5 (9.20 +0.93 -0.21 J)

9.17 +0.99 -0.26 60" June 26

9.18 +0.92 -0.21 27

9.20 +0.91 -0.21 29 June 2 - 100"

6913-6 (9.37 +81 -17 J)

9.37 +0.79 -0.17 27 Jan 60^Y
9.39 +0.78 -0.17 29 Jan 62 100^Y

2124-2

8.25 +0.58 -0.32

8.25 +0.56 -0.32

8.27 +0.54 -0.32

8.24 +0.57 -0.33

8.24 +0.56 -0.33

8.25 +0.48 -0.26

8.25 +0.57 -0.32

8.26 +0.55 -0.31

8.28 +0.54 -0.34

8.25 +0.54 -0.33

8.23 +0.54 -0.33

8.24 +0.56 -0.32

8.23 +0.55 -0.32

8.22 +0.55 -0.33

19 Dec 63 100"

24 Dec 63 100"

100" March 62

24 Dec 100"

26 " "

24 Dec 62 100"

27 " "

28 " "

2129-3

10.10	+0.12	-0.47
10.06	+0.48	-0.47
10.05	+0.89	-0.48
10.08	+0.42	-0.47
10.06	+0.42	-0.48
10.10	+0.40	-0.49
10.08	+0.40	-0.48
10.09	+0.42	-0.47
10.09	+41	-0.51
10.09	+40	-0.49
10.04	+41	-0.48
10.04	+0.41	-0.47
10.03	+0.41	-0.49
10.03	+0.41	-0.49

14 Dec 67 1000
24 Feb 68 1000

200	June 62
"	" "
100	July 2 "
"	" " 5 "
"	" " 6 "
10 March	62 100
24 Oct	100 "
26 "	" "
26	" "
26	Dec 62 100 "
27	" " "
28	" " "

2129-4	10.45	+0.57	-0.32	14 Dec 63 100"
	10.37	+0.575	-0.30	24 Oct 63 100"
	10.38	+0.55	-0.33	
	10.41	+0.57	-0.32	200 Jan 62
	10.40	+0.57	-0.34	" " "
	10.40	+0.55	-0.35	100 Feb "
	10.41	+0.56	-0.29	" " 3 "
	10.43	+0.56	-0.32	" " 6 "
	10.40	+0.55	-0.35	100 Nov 10 62
	10.38	+0.56	-0.34	100 " 24 Dec "
	10.38	+0.56	-0.33	" " 26 "
	10.39	+0.55	-0.34	100 " 26 Dec 62
	10.36	+0.55	-0.34	" " 27 " "
	10.37	+0.56	-0.34	" " 28 " "

2129-5

11.24 +0.44 +0.5

11.27 +0.45 +0.05 200 Jan 62

11.25 +0.45 +0.02 " " "

11.26 +0.43 +0.02 100 Feb 62

11.26 +0.44 +0.07 " " 3 "

11.26 +0.46 +0.03 " " 6 "

11.25 +0.44 +0.03 10 March 62

11.23 +0.45 +0.02 26 Dec 62 100 "

2129-6

11.38 + 1.01 + 0.80

11.42 + 0.99 + 0.98 ⁷ 100 716262

11.38 + 1.01 + 0.80 " " 3 "

11.41 + 1.00 + 0.76 " " 5 "

11.40 + 1.02 + 0.80 " " 6 "

11.42 + 1.00 + 0.79 " 51 numbers 62

2323 ~~2~~ 2 8-35 +0.16 -0.04 237163100⁴

(3) 9.14 +0.11 -0.27 26dec62100⁵ (9.17+0.4⁵-30)
~~9.08~~ +0.07 -0.34 267dec6300

var? 14 9.33 +0.15 -0.16 26dec62100⁵ (9.37 +0.13 -1.8)
~~9.27~~ +0.11 -0.14 267dec6300⁴

NGC 2251 - 1

9.10 +0.05 -0.54

#1

9

9.10 +0.06 -0.56 200 2 Nov 61

9.22 +0.06 -0.66 " Jan 62

9.22 +0.05 -0.62 100 2 Feb 62

9.21 +0.07 -0.63 100 3 " "

9.20 +0.08 -0.60 " 5 " "

9.19 +0.06 -0.63 " 6 " "

9.25 +0.02 -0.67 100 24 Oct 62

9.21 +0.07 -0.63 } " 13 Oct 63

9.20 +0.08 -0.63 }

2251-2

9.65 to 5.00 + 0.06

Jan 62	200	9.63 to 5.7	to 0.05
" 27th "	100	9.65 to 5.6	to 0.05
" " 3	100	9.66 to 5.5	to 0.10
" " 4	"	9.64 to 5.6	to 0.06
" " 5	"	9.65 to 5.9	to 0.04
" 24th 62	"	9.65 to 5.4	to 0.04
" 13th 63	"	9.60 to 5.0	to 0.06
		9.59 to 5.9	to 0.05

$$10.35 + 1.25 + 0.98$$

2251-3

10.25 + 1.26 + 0.95	200	3 Nov 61
10.37 + 1.24 + 1.00	100	27 Nov 62
10.37 + 1.24 + 0.96	"	3 "
10.35 + 1.25 + 0.97	"	5 " 4
10.35 + 1.25 + 0.99	"	6 " "
10.33 + 1.24 + 0.99	"	3 Dec 63
10.33 + 1.27 + 0.99		

10.98 +0.13 -0.06

2251-4

10.93 +0.16 -0.07 200 Jan 62

10.83 +0.16 -0.02 " 2 Nov 61

10.95 +0.14 -0.03 100 Feb 62

10.91 +0.15 -0.04 " " 3 "

10.89 +0.17 -0.08 " " 5 "

10.91 +0.13 -0.03 " " 6 "

10.94 +0.10 -0.08 #1 24 Oct 62

11.18 + 57 + 0.2

2251-5

?

11.17 + 0.28 + 0.12 200 Nov 2 61

11.18 + 0.58 + 0.02 100 7MS-62

11.12 + 0.56 + 0.03 " " 6 "

2251-X

10.35 + 1.22 + 0.97 200 Jan 62

10.36 10.17 27 Hwy

2251-4

10.46 +0.13 -0.18 200 Nov 26 1

10.26 +0.14 -0.25 " Jan 2 62

10.28 +0.14 -0.24 700 Feb 3 62

~~10.29~~ +0.10 =0.18 " " 5 "

10.26 +0.12 -0.19 " " 6 "

10.28 +0.10 -0.27 150 Oct 24 62

2251-Z

13.40 +0.36 to 0.24 200 June 1962
13.28 +0.37 to 0.30 100 July 62
13.26 +0.38 to 0.27 " " 4 "

6866-3 11.18 +0.25 +0.7~~5~~²² J

11.18 +0.27 +0.25 60" 26547

6866-X 11.35: +0.07: -0.34: Hooy

11.24 +0.02 -0.32 60" 2654

T_n-2

8.83 +0.20 -0.22 60" 21uc

8.86 +0.21 -0.22 60 22uc

6 8.88 +0.24 -0.21 60" 26Sut (8.89+21-24)

8.52

3 8.52 +0.17 -0.21 60" 26Sut (8.52+18-21.5)

4 8.67 +0.20 -0.19 " (8.58+18-23.5)

5 8.57 +0.27 -0.10 " (8.60+27-13.5)

3	8.46	+0.19	-0.19	60" 27uc	3	8.46+16-18
4	8.59	+0.20	-0.18		4	8.55+19-17
5	8.56	+0.27	-0.11		5	8.53+26-0.8

IC 1848

1	7.10	+0.38	-0.64	60"	245ft	(7.10+38-62)
not stand	2	8.30	+0.31	-0.69	40"	265ft (8.24+30-65)
and	3	9.44	+0.34	-0.61	60"	265ft (9.40+32-60)
	4	10.07	+0.37	-0.11	60"	265ft (10.06+36-12)

Dobson #2
457-X

9.48 +0.42 -0.57 Peaks
9.61 +40 -62 Hutton
9.49 +26 -55 Hutton

BQ+570243

9.44 +0.40 -0.58 60" 25 Aug 62
9.53 +42 -55 " 26 "
9.54 +40 -57 }

9.59 +42 -55 1st
9.56 +38 -56 2st

9.45 +42 -61 26st
9.48 +0.41 -0.60 2nd

9.45 +0.41 -5.9 +0.41 -0.62 22

9.57 +41 -56
9.58 +40 -55

457-2

7.01 +0.42 -0.38 Resh
6.97 +0.40 -0.37 J

6.98 +42 -36 60" 26 Aug 60
6.94 +40 -38 40" 24 Sept

6.94 +0.41 -0.37

6.93 +0.37 -0.38 21 Dec

6.98 +0.37 -0.39 22

457-5

9.93 +21 -71 Neoh

9.95 +20 -70 J

9.97 +0.21 -0.71 60" 25 Aug 62

457-Y

8.81

+1.73

+2.44

Heavy

8.54

+2.15

+2.44

1 Peak

8.63 +2.13 +2.27

Aug 25 60"

8.60 +2.08 +2.33

26 "

457-4 9.63 +0.36 -0.54 Bush

9.62 +0.37 -0.54 J

9.60 +0.33 ~~+0.57~~ 60" Aug 25

9.64 +0.32 -0.54 " 26

9.57 +0.32 -0.55 21 Dec

9.60 +0.34 -0.58 " 22

957-3 9.51 + 0.26 = 0.54 (Push)

9.51 + 0.27 = 0.53 J

9.47 + 0.28 = 0.53 60-25 day

9.52 + 28 = 52 " 26"

9.44 + 27 = 54 26 day

9.45 + 0.26 = 0.53 21 day

9.50 + 0.25 = 0.54 22

4.95	+0.14	+0.48	60"	25 Aug 47
4.97	+0.70	+0.49	"	26 "
4.97	+0.70	+0.50	"	26 Sept
4.94	+0.68	+0.50		21 Dec
4.96	+0.68	+0.50		22

457-1

5.00
5.00
5.00
5.00
5.00

5.00 + 0.67 + 51 5

5.00 + 0.69 + 0.47

5.00

5.00

7261 A

9.57 +0.86 +0.45 " 22 Dec

9.56 +0.84 +0.41 60" 21 Dec

1 9.58 +0.86 +0.41 60" 26 Sept

10.74

+0.869

-0.07

" 21 Dec

60"

26 Sept

(J(9.61+184+146)

3 10.74

+0.869

-0.07

60" 26 Sept

" 22 "

60"

(J(10.77+90-05)

10.82

+0.88

-0.07

" 22 "

60"

26 Sept

(J(11.67+88-14 Hoff)

X 11.72 +0.78 -0.12 60" 26 Sept

11.81 +0.72 -0.15 " 21 Dec

11.79 +0.76 -0.12 " 22 "