

GH7-222

VA435

4 25 46

+14

11.5

10.50 + 1.01

5177273

508

972 + 0.405

971 + 0.405

956 + 0.41

983 + 0.42

996 + 0.41

990 + 0.405

984 + 0.415 (5)

10.5

11

972 + 0.405 3607

971 + 0.415 69

~~972 + 0.425~~

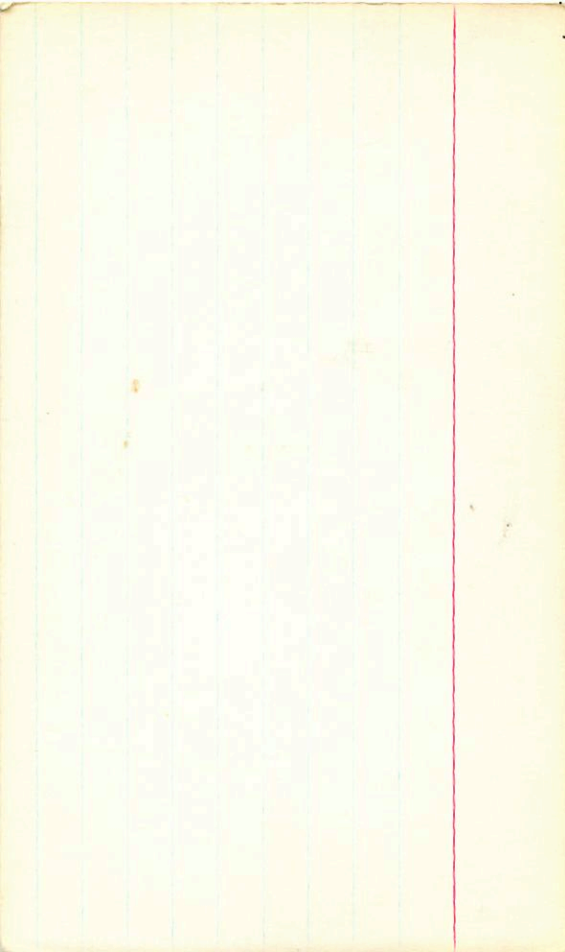
956 + 0.41 240072

~~983 + 0.42~~ 72

996 + 0.41

990 + 0.415

994 + 0.42 (5)



Q-147-138

1980

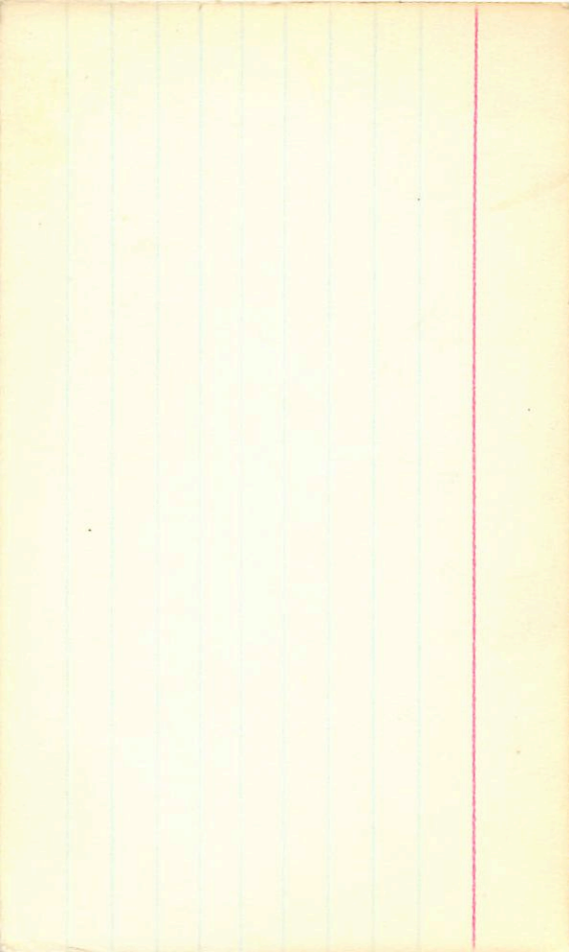
4 12.4 + 14.57

15.65 + 10.5 + 0.32

14.81

+ 0.55

21 Nov 68



VB25 4 16 36 +16 01 9.60 +99 +81

9.03 +0.33 (3)

8.97 +0.35 18 Sept 4

9.07 +0.325 20 Sept

9.06 +0.31 7 Dec

9.04 +0.32

10.01 +1.11 20.99 (1)

4 16 37 +17 21

9.28 +0.51 8 Nov 69

9.32 +0.47 7 Dec 60

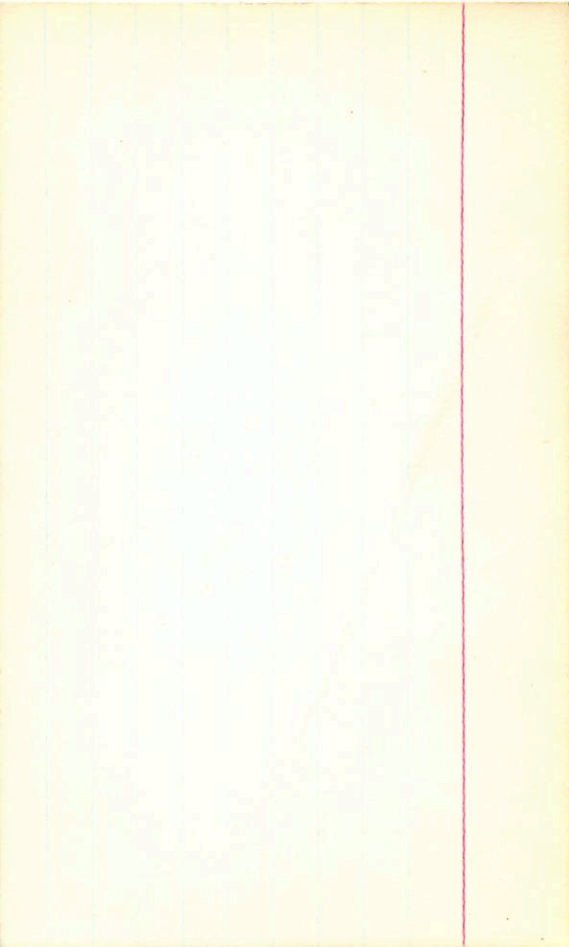
9.30 +0.49

12.12

V A 1357

G 17-160

5253



H6-7-170 4 17.5 +17 23 1950

12.35 11.56 +0.48 100" 10 Dec 63
12.22 11.75 +0.46 " 15 " "

1.66

12.15 +1.05 +0.68 12 Dec 63 100"
12.16 +1.1 73 " " "
12.16 +1.08 +0.66

Van Allen
Hypnot

A 217 W 19.6 +15025 12.67 +0.91

~~12.36~~

12-37 +1.16 +0.655 17 Dec 66 40"
12-47 +1.14 +0.735 16 Dec 66 40"

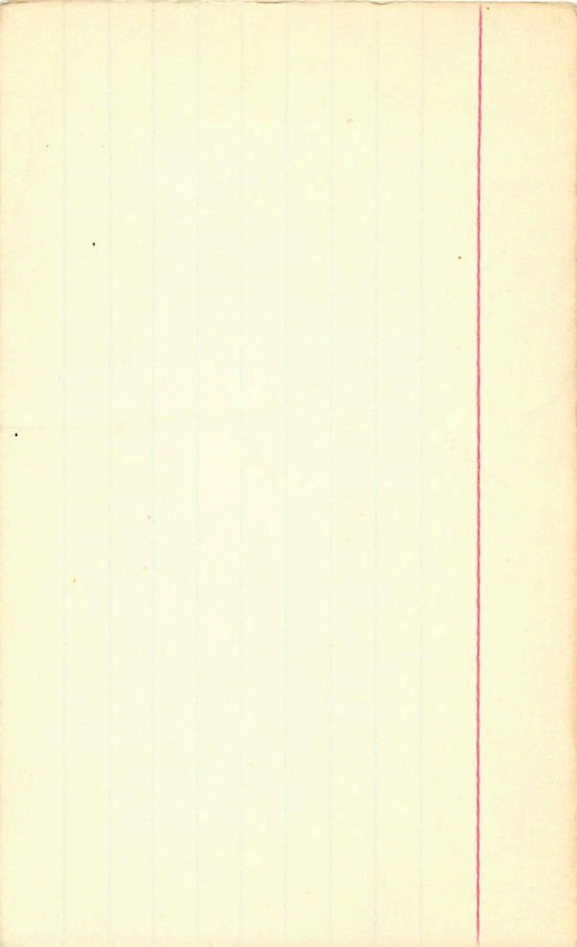
GHD-173

1950

4 20.4 + 14 18.6 14.6 + 0.95

VA

M 94 + 1715 - 1 Oct 67



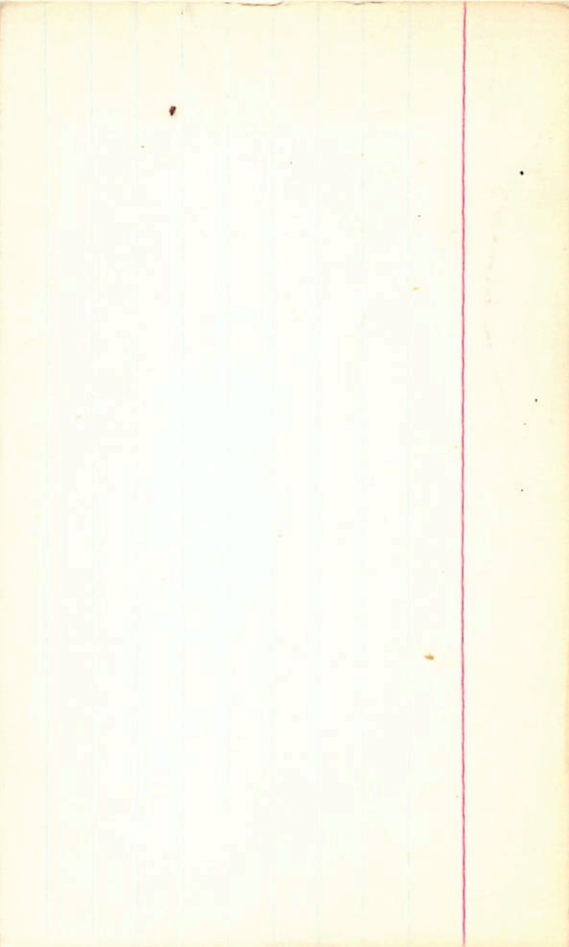
VB39 41 21 00 +16 43 286 +68 +22

7.43 +0.245 18 Sept 69

7.52 +0.23 20 Sept

7.50 +0.22 7 Dec

7.49 +0.23



VB 46 4 21 50 +14 36 9.11 +87 +54

8266

~~8.62~~ +0.305 185414

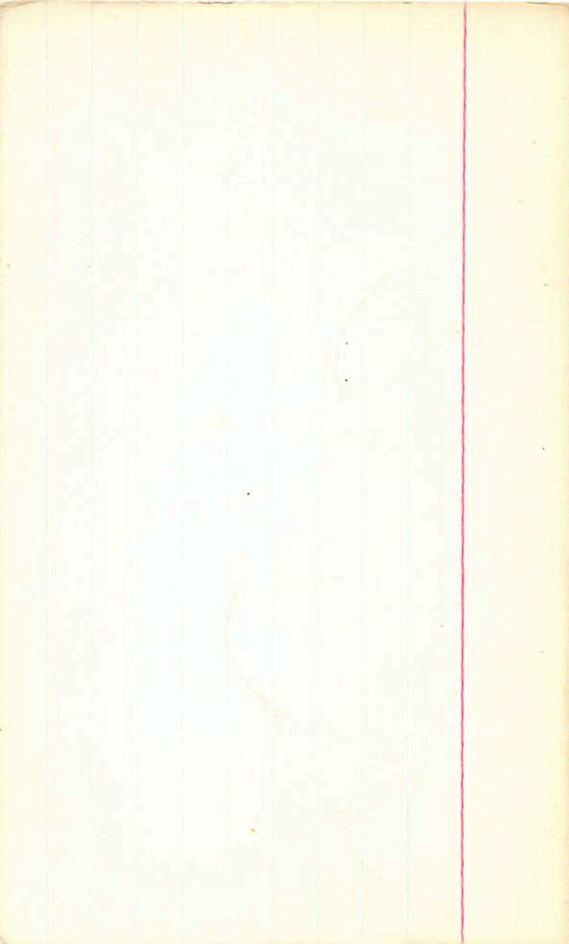
8.70 +0.285 2054

9.67 +0.27 7000

8.62 +0.285

9.76 +0.30

8.68 +0.29

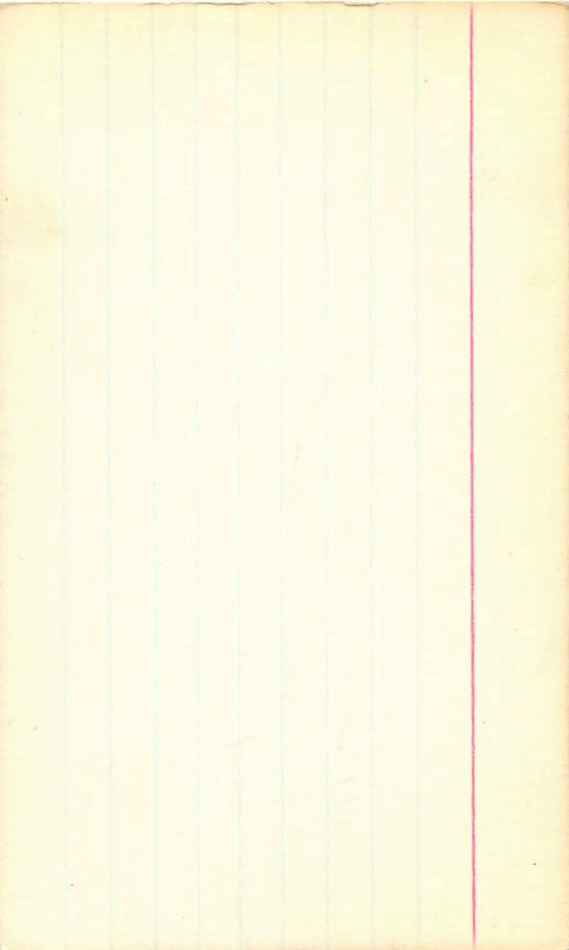


CH7191

04 22 00 +14 165

1429-002-084

14.62	+0.095	17 Dec 1968
14.81	-0.27	28 Dec
14.21	-0.07	18 Dec
14.22	-0.04	29 Dec 68
14.45	-0.025	30 "
<hr/>		
14.30	-0.035	



VB 50 4 22 30 +14 41 7.62 +60 +12

7.38 + 0.2465 7.37 + 0.225

7.22 + 0.23

7.31 + 0.15

7.30 + 0.15

7.30 + 0.215

7.27 + 0.23 19.5469

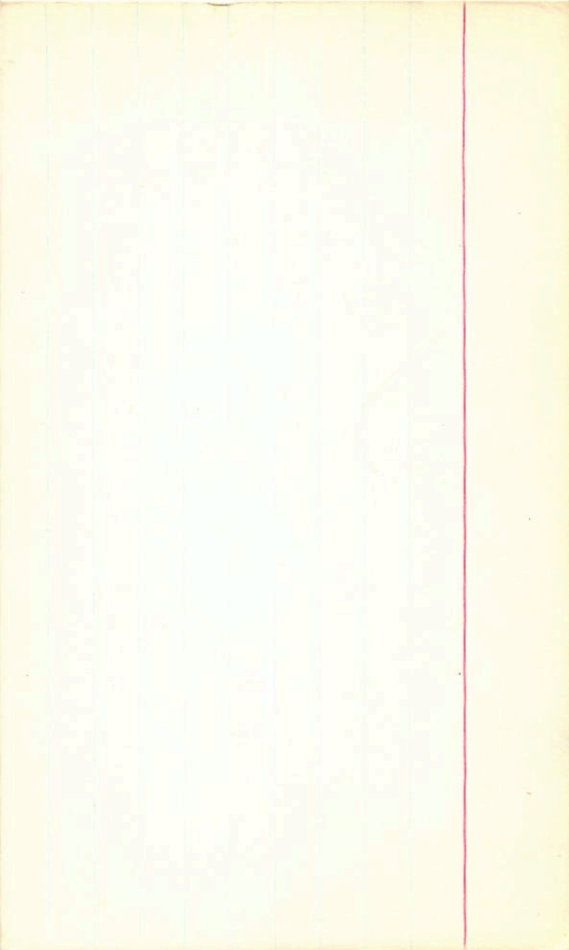
7.44 + 0.215 20.2000

7.24 + 0.205 7.22

VA 354 E 6 + 7-205 4 23 42 +17 50.5 11.53 +131

10.27 + 0.58 8.00069

801



VB 174

4

22

31

+17

56

5.55 + 1064.95

9.37 + 0.355 7 Dec 69

952 39 mlu

VA 354

617-205

11.53 + 131

by 23 42 + 17 50.5

10.51 + 0.55 31 Oct 70

690

G.H.7-212 4 23.3 +14 55 1950

12.31 11.13 +0.75 10 Dec 63 100"

12.13 +1.41 +0.70 12 Dec 63 100"
12.14 +1.49 +1.22 13 " "

11.45

(1.20)?

VB59

Y 24 23 +15 27.5 249 +57408

+0.18
7.40 +0.185 57 Jan 76

7.03 +0.195 18 Sep 69

7.21 +0.17 20 Nov 69

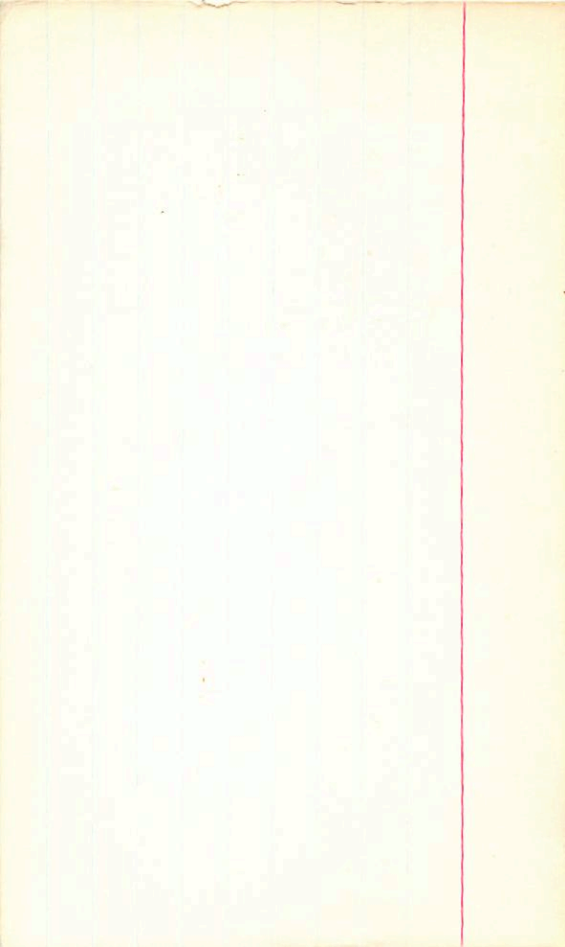
7.20 +0.16 7 Dec

7.20 +0.175

7.28
+15

7.27 +0.18 M

152 new 2315



VB63 4 24 40 +16 47³69 8.06+63 +17

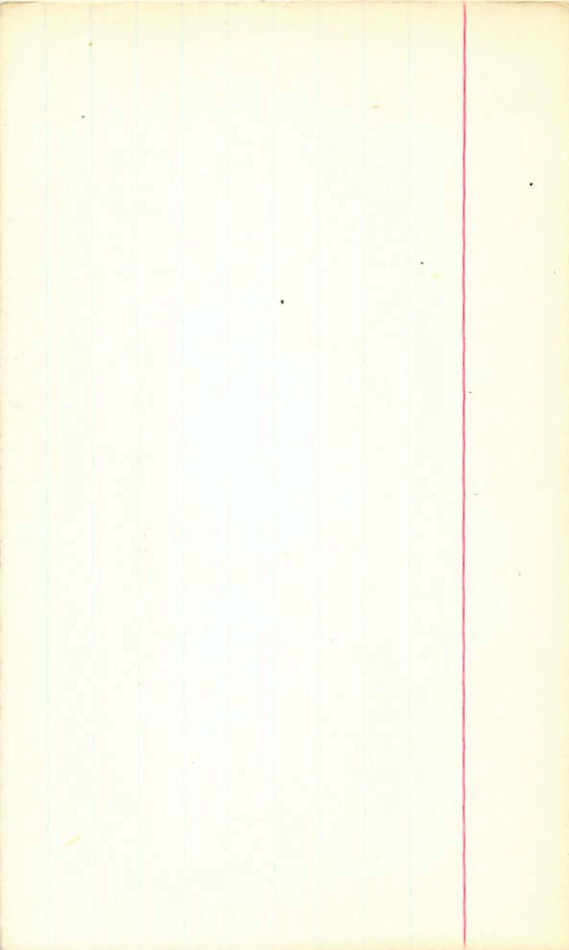
7.80 +0.23
7.85 +0.21
7.62 +0.245
7.72 +0.255

7.90 +0.23⁰

7.70 14.04 7.80

7.81 14.22

7.74 10.23



A 391² 4 24.7 411 51 15.15 = 40.60

324² 4.23 41.07 40.85 3 Dec 67

319

15.33 40.73 40.08 17 Dec 66 40°

* 15.27 40.61 40.14 18 " "

15.33 40.95 40.02 15 Dec 66 40°

15.29 40.90 - 0.28 (+18) 29 Nov 67

15.30 40.80 0.00;

CH7-217 04 25 02 +13 03.5 10.96 +0.83

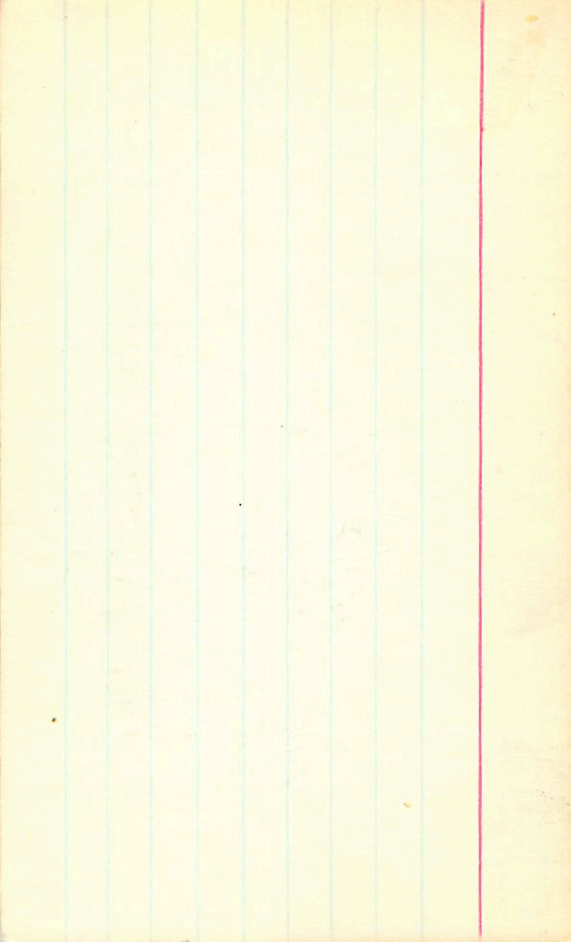
9.77
9.79
9.78

+0.42
+0.42
+0.42

870051
18.

11.10 +1.04 +1.04 +1.04 +1.04 +1.04

10.54 +1.15 +1.04 25 JUL 68



G-47-229

4 25.2 + 18 23

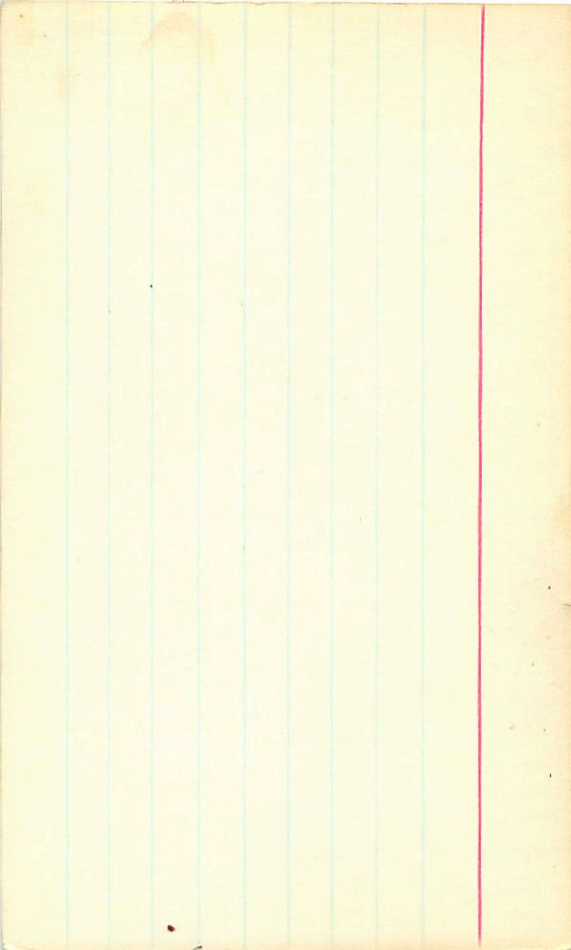
10.17 9.44 + 0.43 10 dec 63 100"

10.17 + 1.07 + 96 5

GH7-223 4 25 37 +15 17.5 1207 +0.81

10.70 +0.30 18 Nov 68
10.40 +0.28 19 Nov 68
10.66 +0.29

11.09 +0.81 +0.39 25 Dec 68



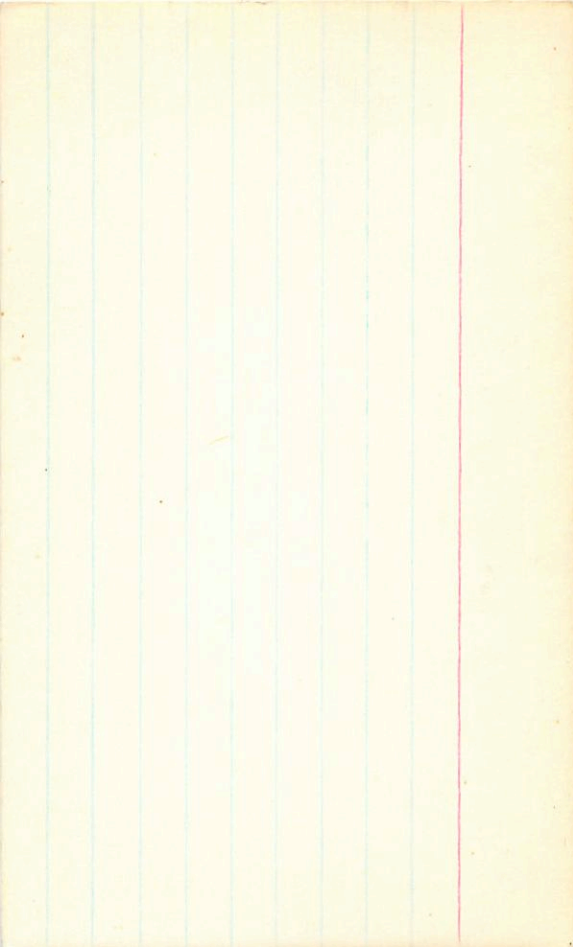
VB66 4 26 05. 411 40 7.51 +0.56 105

7.24 +0.18 M

7.24 +0.18 2070069

7.22 +0.16 7222

~~7.22~~ 7.22 +0.175



6H 7-239 4 26.4 +15 20

12.63 11.98 +0.58 15 Dec 63 100%

GH7-233 4 26 42 +16 54 M02-09-57

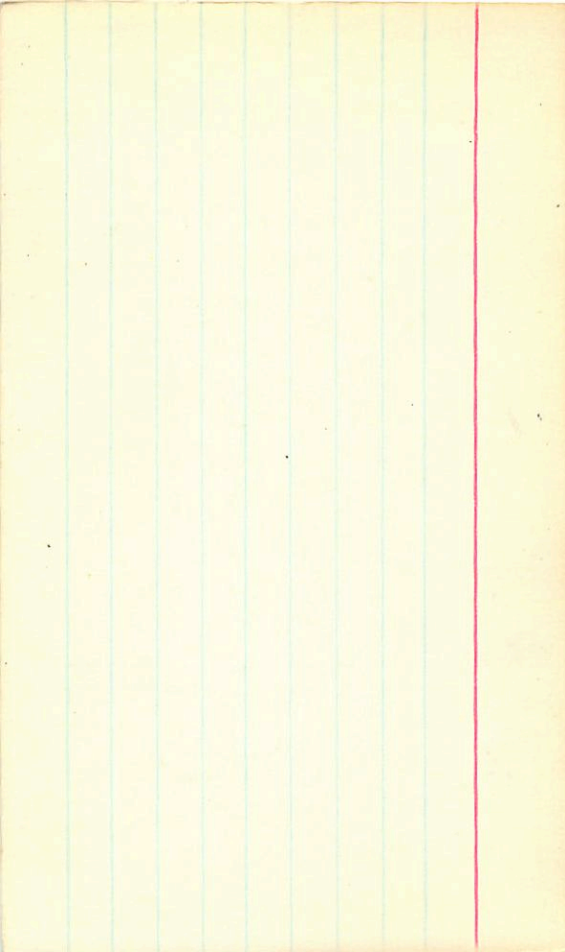
14.33 -0.06 19 Dec 1965

~~14.34 -0.375 28 Dec~~

~~14.36 -0.09 29 Dec 65~~

14.41 30

14.35 -0.075



VB178 4 26 24 +13 48 9.03 44 +51

~~9.69 + 0.33^m 8.62 + 0.315 20mm~~
~~8.62 + 0.315 8.63 + 0.28 7mm~~
~~8.66 + 0.32 8.62 + 0.29~~

→

VB180 4 28 14 16 36 5.10 + 85 + 58

8.74 + 0.30 M

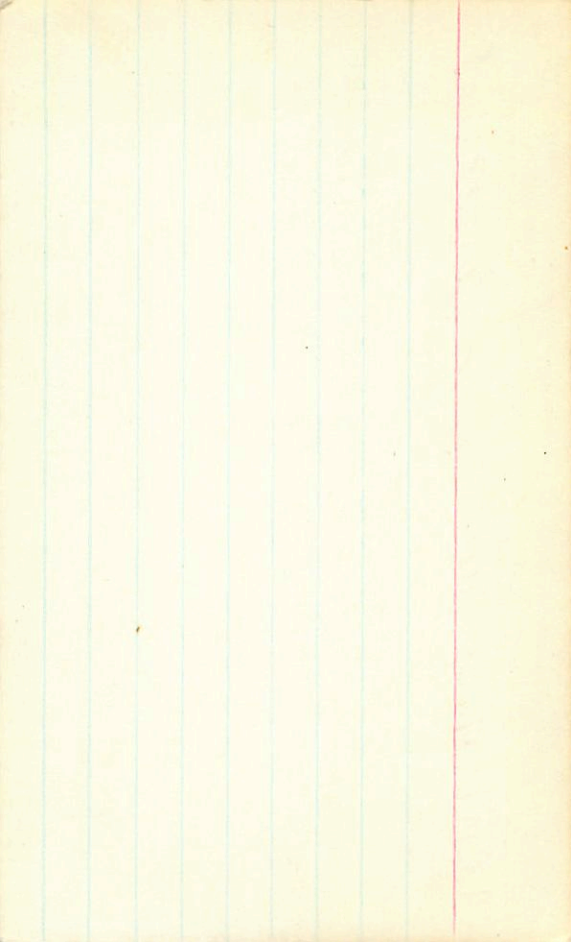
8.70 + 0.30 Sooner

8.72 + 0.30

8.70 + 0.30 S 20 Nov 69

8.67 + 0.26 S

8.67 + 0.28 S



VB92 4 31 16 +15 45.5 8.66 +77 +04

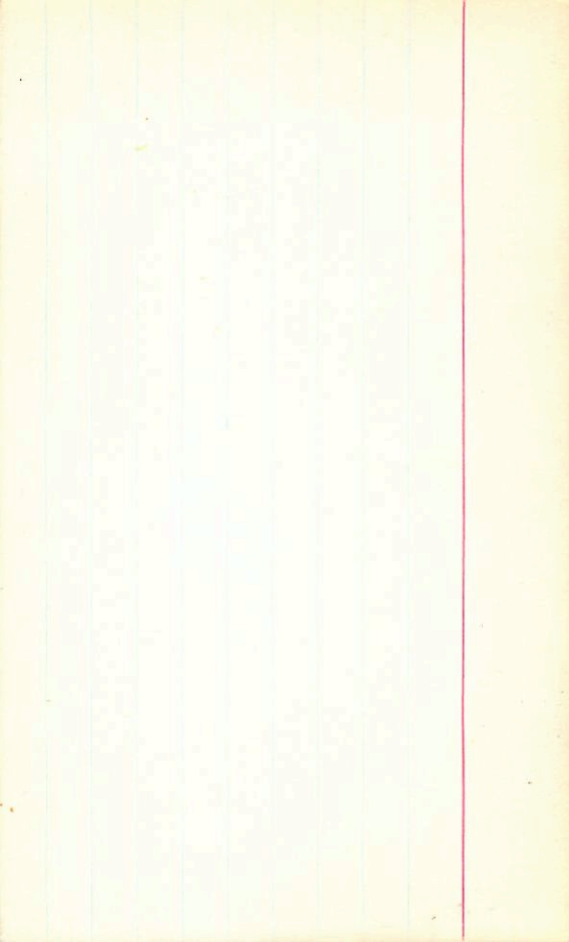
8.35 + 245 M \rightarrow

¹³
8.20 + 0.26 18 Sept 69

8.30 + 0.24 20 Nov 69

8.28 + 0.23 7 Dec

8.32 0.275



H91 4 30.7 + 15 56 8.8 d. 100' 1963

W2662

647-257 9.08 8.75 ~~10.33~~ + 0.32 127664^{100'}

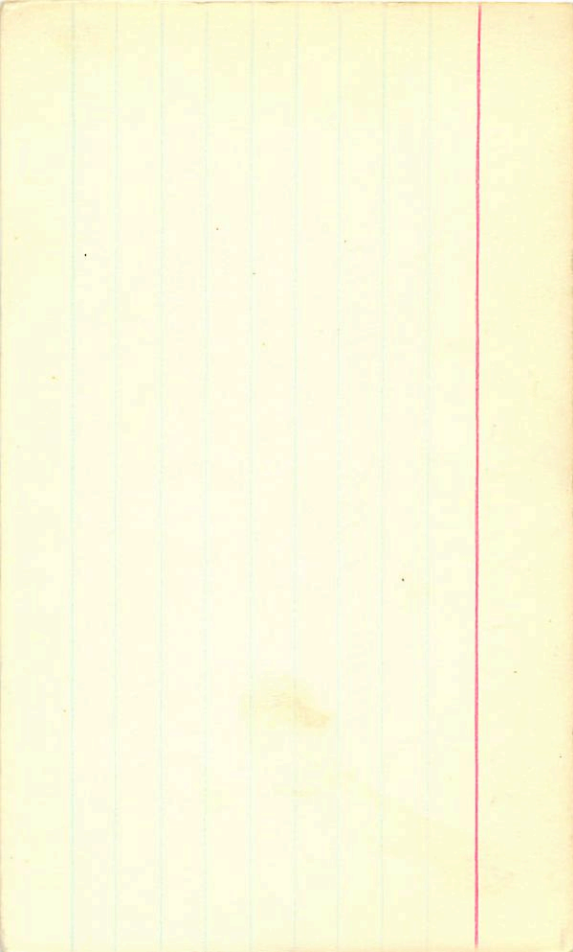
8.56 + 0.335 M

8.54 + 0.8 + 54

VA 722 4 31 52 +12 38.3 118-03-89

GH-

$$\begin{array}{r} 14.61 - 0.155 \quad 29 \text{ Dec } 68 \\ \underline{14.53 - 0.16} \quad 30 \\ 14.58 - 0.16 \end{array}$$



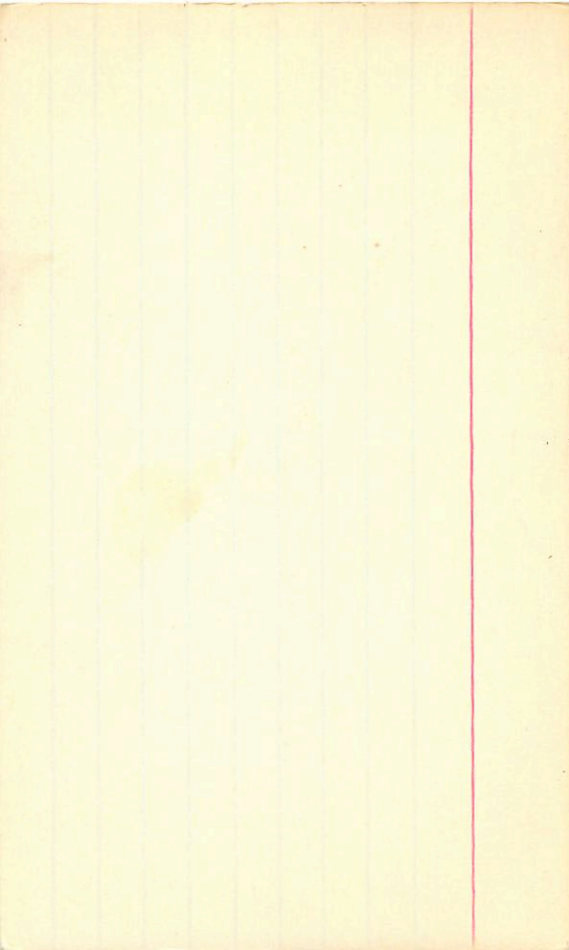
.127 950

VA 731 4 31.3 +14 07

LP475-154

12.59 +1.01 VA 7nd 2.63

12.25 +1.36 - 3 Jln 6.7



-233	13.97	-0.10	-0.99	> 8
G7-21	10.78	10.72	0.12	28 Oct
-63	14.42	+0.75	+0.13	28 Oct 42
-112	14.56	+0.86	-0.02	28 Oct
-114	14.93	+0.79	-0.06	20 Dec 63 200
-130	15.42	+0.69	-0.44	28
-133	15.27	+0.09	-0.65	"
-138	15.21	+0.70	0.00	"
-199	14.34	+0.45	+0.01	20 Dec 63 100
-201	14.14	+0.58	-0.03	"
-210	14.68	+0.66	-0.03	20 Dec 63 200
-211	14.80	+0.69	+0.05	30 Sep 62
	15.46	+1.06	+0.35	28 Dec 62 100
	15.70	+1.06	+0.39	"
	14.33	+1.04	+0.75	"
	13.64	+0.71	+0.15	"
	10.33	+0.59	-0.01	"
	13.63	+0.48	+0.31	"

Q47-63 14.47 +0.80 -0.02 (3)

-130 14.13 +0.59 -0.03 (2)

-133 11.80 +0.69 +0.04 (2)

-138 15.66 +1.05 +0.32 (2)

-21 13.28 +0.73 -0.15 (3)

-22 14.95 +0.73 -0.04 (2)

67-197 -2) { 13.28 +0.76 -0.15 21 Dec 100"
 { 13.25 +0.72 -0.12 28 Oct 62.100"
 13.27 +0.72 -0.15 30 Sept 62

14.02 +1.47 — 20 Dec 62.100"
 (11.26)?

-127 { 12.76 +0.52 +0.06 21 Dec 100"
 { 14.17^{14.30} +1.04 +0.75 26 Dec 62.100"
 -199 { 14.17 +1.01 +0.89 28 Dec 62.100"
 { 15.02 +0.72 -0.02 } 21 Dec 63.100"
 { 14.89 +0.74 -0.02 } 28

-249 9.50 +0.98 +0.78 28
 -250 11.85 +1.41 +1.24 25
 -182 10.15 +0.45 +0.13 25

14.94 +0.73 -0.04 (2)

123 14.72 +1.64 +1.15 20 Dec 63 200"

V0183

4 32 49

+15

46

9.69 + 91 + 68

9.26 + 0.225 M

9.20 + 0.30 302064

9.28 + 0.31 ②

9.20

9.15

9.15

+ 0.30 302064

+ 0.28 7122

+ 0.29

van Allen Open

A764 4 33.5 +14 08 14.75 +0.61

14.60 +1.19 +0.66 1.20" 1968 7.629

24.8

~~14.71~~ +1.13 +0.70 17 Dec 64 40

* 14.56 +1.14 +0.57 18 " "

14.78 +1.19 +0.40 15 Dec 64 40

14.55 +1.10 +0.73 29 Nov 67

14.53 +1.06 +0.68 3 Dec 67

14.53 ~~+1.12~~ +0.67 (6)

+1.15

14.13 +0.56 31 Oct 70

156837 17 20 06 -49 25 10.5-100

100² 1160
10.47 +1.35 +1.09 176/23

9.57 +0.73 216/23

1.63

9.57

1.63

1.63

1.63

1.63

1.63

10.46 10.545

10.66 +3.05 - 14 Mar 74
 10.52 +2.85 - 23 "
 10.43 +2.86 - 19 May 74
 2477 - 6 +
 10.45 +2.85 - 9 May 74
 10.66 +2.53 - 8 Nov 73
 10.48 +2.54 - 24 Nov 73
 10.57 +2.89 - 24 Nov 73
 10.68 +3.28 - 25 Jan 74
 10.80 +3.01 - 25 Feb 74
 10.82 +3.03 - 8 Mar 74
 10.80 +3.03 - 11 Mar 74
 10.69 +3.05 - 9 Mar 74

8.68 +1.32 - 8 Mar 74
 8.68 +1.265 - 10 Mar 74
 8.66 +1.27 - 12 Mar 74
 8.62 +1.275 - 6 Mar 74
 8.55 +1.27 - 9 Mar 74
 8.50 +1.27 - 12 Mar 74
 8.36 +1.265 - 14 Mar 73
 8.29 +1.275 - 13 Mar 73
 8.50 +1.27 - 13 Mar 73
 8.51 +1.275 - 24 Feb 73
 8.48 +1.30 - 28 Mar 73
 8.53 +1.265 - 26 Mar 73
 8.64 +1.285 - 31 Mar 73
 8.54 +1.275 - 8 Jan 74
 8.63 +1.27 - 4 Jan 74

16 Mar 74
 8.49 +1.265
 8.52 +1.22
 15 Mar 74

WGC 2451-269

5.59 +0.55

5.42 +0.58

5.50 +0.565

25 Dec 69

3 Jan 70

AD 63291

~~6.32~~ +1.34 +~~2.04~~ ^{+1.58} 27 Dec 69

6.31 +1.35 +1.53 30 Dec

6.22 +1.33 +1.48 4 months

6.32 +1.34 +1.56

2451-259

226
38
264-38

H063032

264 +0.75

3.61 +1.23 +1.70 5

2.47 +0.755 25 Dec 69

3.62 +1.68 +1.76 27 Dec 69

2.23 +0.74 3 Jan 70

3.62 +1.65 +1.70 30 Dec

2.50 +0.75

3.58 +1.72 +1.75 7 months

Hinten

A. D. J. P. 78

Slow Heart

	over	11	6.8
140 (102)	066-04	woodland	6.8
3582	-165	11 05	08 -58 27
10.45	+2.51	- 19 May 74	
11.41	+1.54	+1.84	20 Dec 72
11.49	+2.87	-	9.12
11.49	+2.93	-	2.55
127	7.71	+0.975	+0.62
7.23	+0.96	+0.67	19 May 74
7.79	+0.91	+0.50	29 Dec 72
7.74	+0.61	+0.57	19 May 74
7.65	+0.55	+0.67	29 Dec 72
7.62	+0.62	+0.72	19 May 74
7.12	+0.60	+0.67	29 Dec 72
7.12	+0.60	+0.67	19 May 74
7.24	+0.37	18 Jun 72	
7.33	+0.34	5 Jun 73	
7.34	+0.36	18 Jun 73	
7.42	+0.34	10 Jun 72	
7.24	+0.37	18 Jun 72	

NGC 3532

11

02.2

-58

08

289.

d 1900 S L T

J. Koelbald 19576

Bud. Ant. inst. Neth. N.Y. 265

The C* is north of D132 and forms a nearly
equilateral triangle with that star and no. 168.

2533-109

-29.7

Carbon #

126
1927

Over

10.94 +3.85

11.14 +4.06 - 17 May 72

11.14 +4.12 - 22 May 72

11.68 +4.19 - 4 Jan 73

11.50 +4.24 - 21 Jan 73

11.23 +4.12 - 15 Jan 73

10.94 +4.21 - 31 Mar 73

10.91 +4.18 - 3 Apr 73

11.03 +4.00 - 11 Apr 73

11.05 +4.22 - 29 Jan 74

11.10 +4.14 - 22 Feb 74

9.06 +1.32 - 22 May 72

9.17 +1.25 - 21 May 72

9.35 +1.28 - 5 Jan 73

9.31 +1.295 - 8 Jan 73

9.31 +1.265 - 20 Jan 73

9.09 +1.25 - 20 Feb 73

9.03 +1.265 - 1 Apr 73

9.04 +1.22 - 12 Apr 73

9.19 +1.225 - 6 Mar 74

9.04 +1.22 - 12 Apr 73

9.04 +1.22 - 12 Apr 73

1687 2492

1704

1733

1773

1796

1794

1066

1123

1877
1874
1872

11.27 +4.12
11.27 +3.96
11.27 +3.96

11.27 +4.12
11.27 +3.96
11.27 +3.96

11.27 +4.12
11.27 +3.96
11.27 +3.96

2533-118	11.99	+0.345	+0.14	19 Feb 73
	12.05	+0.305	+0.19	31 Mar 73

-115	13.12	+0.275	+0.18	31 Mar 73
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-11	9.09	+0.61	+0.11	22 May 72
	9.01	+0.64	+0.12	19 May 74

-125	12.02	+1.34	+1.02	31 Mar 73
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-7	12.23	+0.145	+0.07	19 May 74
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