

+15  
-11

210302 22 7.2 -32 48 d.f.s

HP8447 00 40<sup>0</sup> 43<sup>44</sup>

GC31003 2045 314

490 + 49 00 239  
313 167 480 265 8

219 420  
+55

370 1.70 + 44.5 - 8.3 - 140  
+75 9660 -265 -1185

574  
9  
1.5  
-146

13.2 0340 +10  
0343 +0120  
432

2.65  
804 167

0342-012  
481 033

2.7421  
26 43.5  
+0150

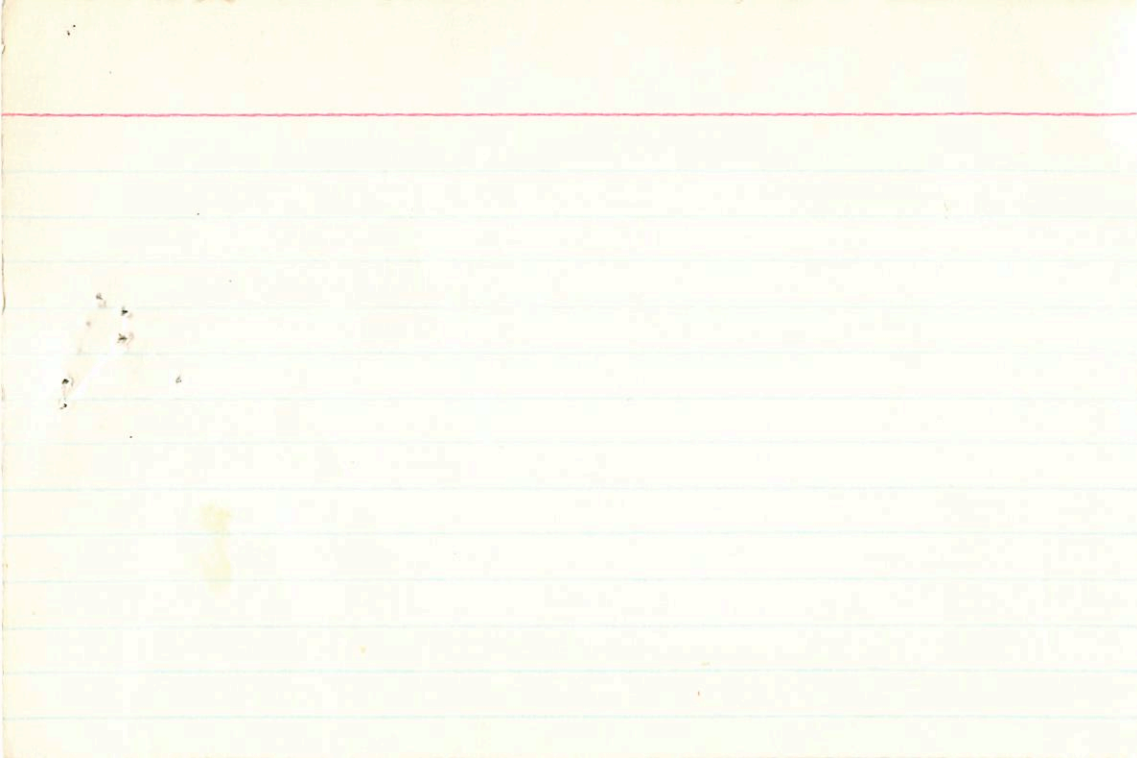
+03890  
+03420  
+4304

+0176  
-350  
-14.4  
2

573  
23  
1.12  
-14.6

482-009

481 + 074  
481 167



2POA

210302

31003

13929

8445

+0339 24.2  
+0339  
-32 48  
+0342

22 07.2

+0342

+026

+01363.4  
+013

5.1 dFS -146a

13.279 1905.3

-32 47 4147 190.5

-1.515  
764

<sup>30</sup>+03390  
<sup>23.5</sup>~~24.5~~  
<sup>24.5</sup>-64  
42.11

11.764

12.947  
-27  
976

+03428 +0176  
17130  
5+4304

41.82 1940.90.

6481  
13240  
13.519 +1.476

43.5

41.75 93  
41.47  
41.75 64

9761  
48.8

13.519  
-14  
505  
+1.476

70.35

41.17 1956.77  
41.18

41.52  
-15  
41.17

M.1000  
179  
13.98

513  
84

52

20

4104

43092

109



天. 1.

..

1.00.000  
1.00.000  
1.00.000

+023858.0 +21957.1  
+0223 +200

2.5 df 8 -0.48

-46.5  
40.9  
44.2

(Wendy)

+02321140  
345 190

-433

1345  
190  
3134  
-433

209875  
30919

13890

(16-80)

22 04.0 +01 37 2.5

59.294 1897.2 +1 36 38.13  
-1.257 725 343 163 384 (1)

58.037 724 353 152 383 (3)  
723 334 163

(350)

25.91  
33.86 1553

(38.7)

3402

1800

3412

1376

110  
46352

1936.56  
7186  
35.9

22

1400

1400

(41.1)

3422

3412

900

+863

+8.21

10



126-607

2022 082 722.33 123 E

8.565  
+22.4567

917 543 467 263 (3)

132  
50 261

+6.40  
19

-046 -057 *continuity*

-576-51

-629  
-51  
358  
-22.5

-19-10  
-23-60  
-25-4



R.A. : 22.050  
DEC. : 1.600  
R.A. : 345.000  
DEC. : 190.000  
DISTANCE : 3.240  
PERIOD : 44  
VELOCITY : -43.300  
Q1 (U) : 0.794  
Q2 (U) : 0.494  
Q3 (U) : -0.354  
DU : 1742.829  
U : 92.835  
(V) : -0.152  
(V) : 0.726  
(V) : 0.670  
dV : 405.241  
V : -11.014  
(V) : -0.588  
(V) : 0.479  
(V) : -0.652  
I : -530

M



10.12.19

10.12.19  
10.12.19  
10.12.19



210 218 22 11.6 -41 37 -19.8 ± 0.3 C<sub>2</sub> (14)

G-C 31100 6.24 +0.64 65 ± centile 1st

75379 244 (MR) 628 85 309 330 239 118 246 63 2

411 195 326 19 1108 604 19 +558 -740 cent

+41 -77 -2 .055 11 510 743 +559 -798 0.6

+54 -104 -9 045 577 -742 622 398 221 320 ① 624 189 143 622 415 195 323 ② 622 398 221 320 ①

394 205 390 105035 +797 100 100 195 323 ② 304 205 340 411 (112) 376 (12) 404 198 328

622 407 193 14 1567 6 190 40 ± 7 174 45 90 4167 4179

666 -770 663 -772 664 68 +432 627 68 +432 190 312 4167 4179

622 407 193 14 1567 6 190 40 ± 7 174 45 90 4167 4179

35699 ~~1887.5~~ 1905.3

+ 0498 FH.D - 79053.2  
+ 0509 - 792

- 41379.83 1902.5

2.224  
33 1473

37.53  
32.30

33.351

3.05 1941.18

32  
- 30  
2

2.59

9549

1266  
35633

42.4

13.14 145431

47.7

35.942

- 12  
91

45.2

13.26  
16.25

8.12

2

25.18

R.A. : 22.200  
DEC. : -41.600  
R.A. : 765.000  
DEC. : -793.000  
ANCE : 1.740  
ULUS : 22  
VEL. : -19.300

(U) : 0.808  
(U) : 0.138  
(U) : -0.573  
dU : 1671.795  
U : 48.308

(V) : -0.178  
(V) : 0.984  
(V) : -0.013  
dV : % -4180.239  
V : -92.900

(W) : -0.562  
(W) : -0.112  
(W) : -0.820  
dW : % -1100.985  
W : -8.715

112

8440411

1174 523 382 - 244  
22 19.4 - 57 02 102 I

165.191058.33  
35.4 1.20

873 0.85 → 0.4

-51.11806  
91.1115

1090 853 - 0.21 8100

470 22.0 9572

1000  
1000  
1000

1000  
1000  
1000

8.78 501 292 - 360 ③ 102

808 0.338 2230

ppm  
-1066

2974 499 338 242 190  
570 332 240 190  
508 338 240 190

1637066

1637066

1000 + 1000

8.74 523

362 ~ 20 42 ~ 10

289  
1006  
1000  
1000

8540  
8540  
8540  
8540  
8540  
8540



1569

113

906



902 11.1 1090 1045 @

weight

600

11.4 1090

4

12

1.70

18

109.7

119

8501  
211915  
31178  
14022

483 605  
22 1510  
52  
59.604  
1906.9

10  
514 10  
3  
10

7754  
354

20.64  
0.669  
20.83  
-260  
-116  
2101

70477 #46  
70435  
-53  
52  
-435.4

11.6  
16.65

10470 -657  
±0536  
0477  
04216  
159

32.6  
1940.18

668  
663  
659  
1484  
1484

468 ± 4.1  
-659  
-13.98

1902.3  
=13.4

31.23  
37.25  
31.01  
2.11

1939.8  
37.0

22.25  
-53.9  
+714.5  
-657  
0.85  
-126

0508-657

999-657

7410

385

192

289

2584

338

389

178

308

(1)

-192  
258

336

353

170

310

(2)

+4.24

357

175

(3)

365-02

4/1

1000 21

1000 22

1000 23

1000 24

1000 25

1000 26

1000 27

1000 28

1000 29

1000 30

1000 31

1000 32

1000 33

1000 34

1000 35

1000 36

1000 37

1000 38

11

211415.000\*

22.000\*

15.000\*

-53.000\*

-53.000\*

0.417\*

-0.663\*

0.550\*

14.7

12.882

-13.600

1.537

-0.583

27.732

-3.374

-0.224

-40.429

-0.181

-0.781

114

8.294



100

100

100

100

100

62.250

- 53.900

714.500

- 657.000

0.850

1202 14.74 15

- 13.600

0.812

0.822

- 0.500

1553.955

2880

30.910

266

- 0.186

0.957

- 0.224

- 3350.456

372

- 46.512

- 0.550

- 0.290

- 0.781

- 190.950

114

180

7.000

211476 22 14.8 +12 39 d62 -25.9 (u13)

GC31171 7.03 +0.60 +0.08G-2UR

WC4021 7.05 389 175355 ① S = .05 26.1

Y5398 704 389 180324 ① 23 +096 24 M30

+12 0497 -14 .060 +0579 23 +096 24 M30

+65 -32 -20 .050 +0577 39 +101 = 3.066 → M30

+78 -33 -20 .050 +0578 +0985 M30 T

+94 -36 -28 .040 +0509

+125 -39 -44 .030 +0505

150 312 4456 22

3.1

877 2.35 261

②50

4456 4456

②6.1

058208

856095

344161

53415

4016

+845 +099 G-  
+845 +086 M30



2102 +

dG2

211476

22 14.8 +12 39 -29.9 8 w(3)

GC31171

7.03 +0.60 +0.08 G2V

+1204797

$\delta = 0.5$

12

75395

+845 +099 G2

W14021

36A(14)

+828<sup>5</sup> +089.54

53M(5)

+839 A9

42w(4)

837 +095

~~444~~ 897 219976 + 837 + 095 - 25.9 + 021 - 7 440

370009751019 1.660 3.600 - 26 + 13 037

297 2

92504

-14-18 2

176 0

4-40 2

-8-15 1

+19 +110 +5

+101-36-32

+9 +86 +2

+78-34-22

047

MS



10. 11. 2019

10. 11. 2019  
10. 11. 2019  
10. 11. 2019



211976 88M 22 18.4 +0029±69 +026±4.9  
 +0025 +07 56 6.2 dF4 +9.78

31239

14053 25.917 18940 +7 56 3.43 1889.6

$$\begin{array}{r} -162 \\ \hline 755 \\ \hline \end{array}$$
 299 147 422 - 1.57  
 193

25.841 (M) 142  
 0028019 (M) 2.98 1934.2  
 16 15  

$$\begin{array}{r} 857 \\ \hline \end{array}$$

41.4  
 3.17 1936.12  

$$\begin{array}{r} 3 \\ \hline 3.20 \\ \hline \end{array}$$

25.845  

$$\begin{array}{r} 16 \\ \hline 861 \\ \hline \end{array}$$

60 410 1264  

$$\begin{array}{r} 3.16 \\ \hline \end{array}$$

442 398  
 1130  
 75.8

+104  
 2.24 +57

116

DEC. 25. 1970  
R.A. 10.00  
DEC. 24. 1970  
R.A. 10.00  
DEC. 23. 1970  
R.A. 10.00  
DEC. 22. 1970  
R.A. 10.00  
DEC. 21. 1970  
R.A. 10.00  
DEC. 20. 1970  
R.A. 10.00  
DEC. 19. 1970  
R.A. 10.00  
DEC. 18. 1970  
R.A. 10.00  
DEC. 17. 1970  
R.A. 10.00  
DEC. 16. 1970  
R.A. 10.00  
DEC. 15. 1970  
R.A. 10.00  
DEC. 14. 1970  
R.A. 10.00  
DEC. 13. 1970  
R.A. 10.00  
DEC. 12. 1970  
R.A. 10.00  
DEC. 11. 1970  
R.A. 10.00  
DEC. 10. 1970  
R.A. 10.00  
DEC. 9. 1970  
R.A. 10.00  
DEC. 8. 1970  
R.A. 10.00  
DEC. 7. 1970  
R.A. 10.00  
DEC. 6. 1970  
R.A. 10.00  
DEC. 5. 1970  
R.A. 10.00  
DEC. 4. 1970  
R.A. 10.00  
DEC. 3. 1970  
R.A. 10.00  
DEC. 2. 1970  
R.A. 10.00  
DEC. 1. 1970  
R.A. 10.00



R.A. : 22.300  
DEC. : 7.950  
R.A. : 42.000  
DEC. : 19.000  
ANCE : 2.290  
ULUS : 29  
VEL. : 9.700

(U) : 0.817  
(U) : 0.522  
(U) : -0.245  
dU : 208.059  
U : 3.593

(U) :  
(U) :  
(U) :

7/2/74

22 1919 229 52

-6.5-3

819 491 235 252 (4)

819 461 246 256 (2)

459 233

Carroll

-124

8348-124

60  
10/20/74

60  
11/2/74

155K

570

129

260

5.9K

528

9120

442-124

2

117

R.A. : 22.350  
DEC. : -29.900  
R.A. : 510.000  
DEC. : -124.000  
DISTANCE : 2.600  
MODULUS : 33  
VEL. : -6.500

1 (U) : 0.821  
2 (U) : 0.267  
3 (U) : -0.505  
dU : 1562.611  
U : 55.026

1 (V) : -0.203  
2 (V) : 0.963  
3 (V) : 0.180  
dV : -990.491  
V : -33.969

1 (W) : -0.534  
2 (W) : 0.045  
3 (W) : -0.844  
dW : %-1146.453  
W : -32.476

17