

40.3

792 20 41.1 +14 54 Am?

197461

29873 2. Del um

4.44 + 32 + 10 ↓

150 163 854 (2) SPC

su. AdA

2.738

7097
+10.3

269, 145 1993

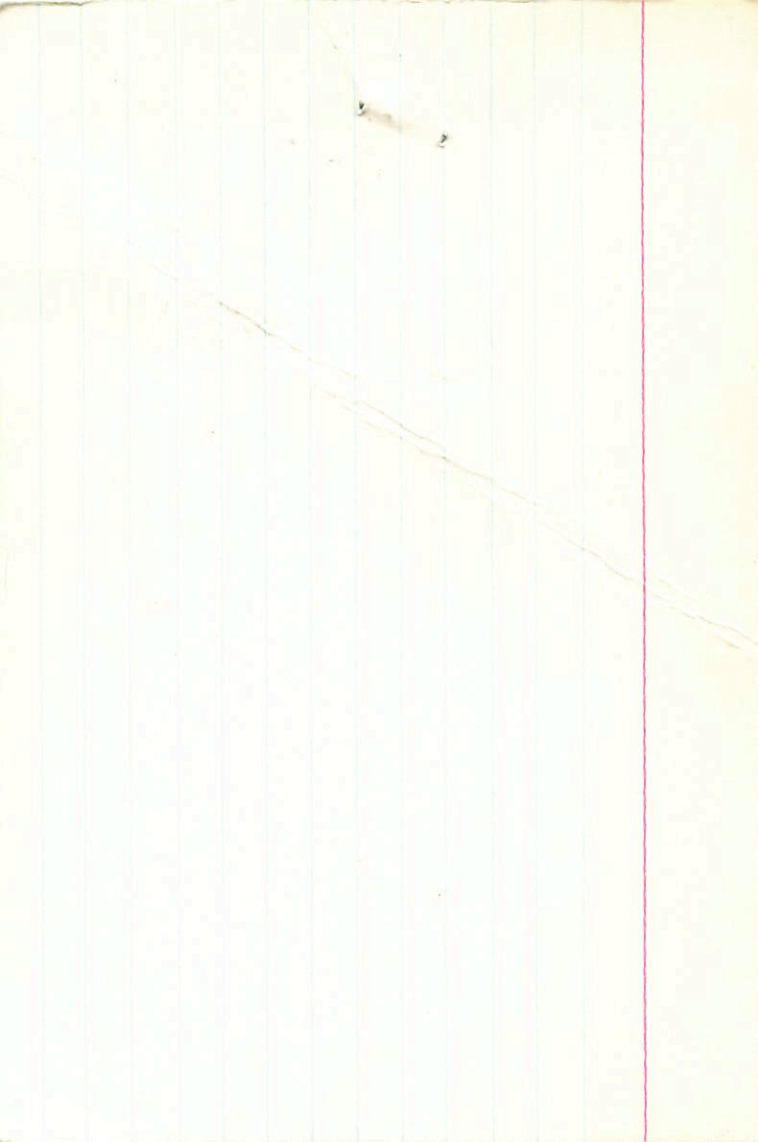
443 091 1.227

Bud 51

-20
-43
4/18
743
+9.3

Buade, D. Bardelli, S., Beauclieu, T.

am Vogel 5. 1993 ~~ATA~~ 26/195



10228

197461

-0194-0482-1215

+9.30

S del

2883

20 41.1 +14 54

147325
12597

-0194-0482-1215

-025 -043A

Good Cop

4.5 10.34

2.4

-025 -048 C

LA (20)

81 -04371130

-023 -070 P
-024 -044

1, M (4)

-0017 81 -045±1266 → 230

808-025
570-808
596-997

17-0.24 493

-00134 -0482-1215

4997

0434

3.0 -0196 048
-0194-0482-1215 5.17

197461

066

0425

191 162 883 2789

8541
6012

072049

8

0154.03

8026 5466 0253-9997

-763 646 257 966 -024-044 +9.3a -011 +2.0-304

#018, 008-016-007 -052-114 #7.3 #67-5.6 013

8

+1.2-13.2 -11.6
018

-14.5-22

2ma +1.0

2

+3-13-8
-15+1-y

106

+1.8 -11.9-9.3

-14.6-0.8-4.8

018

+1.2-13.2-11

-17-2-y

015

+1.7-12.3-10.0 017.

2

-15.5-1.2-4.4

02

+2.1-11.3-8.2

-13.5-0.1-9.8

gnd



R.A.	:	20.700
DEC.	:	14.900
R.A.	:	-20.000
DEC.	:	-43.000
STANCE	:	4.180
MODULUS	:	69
VEL.	:	9.300
q1 (U)	:	0.618
q2 (U)	:	0.627
q3 (U)	:	-0.475
ΔU	:	-184.336
U	:	-17.053
q1 (V)	:	0.082
q2 (V)	:	0.549
q3 (V)	:	0.832
ΔV	:	-119.472
V	:	-0.456
q1 (W)	:	-0.782
q2 (W)	:	0.553
q3 (W)	:	-0.288
ΔW	:	-41.020
W	:	-5.488

+0027 = 2.6
+0026

184560 19 33.0 +51 05 -1905.6 dflc +1.28

27068

+0026

11588

2.056 1890.4 +51 7 42.53 1895.6

-161

1.895

+00265 -190

10.43

52.96

19.55

+51.1

23.24

38.770

02.016

804

608

+00236

1898

-0637

1.3

08500

30.0

16.158

46.58

47.25

1927.6

1057

7273

36.4

40.8

7273

36.4

40.8

46.0

150 47.23

015

02.017

471

020

148

43.57 1948.0

7.68

1600 2036

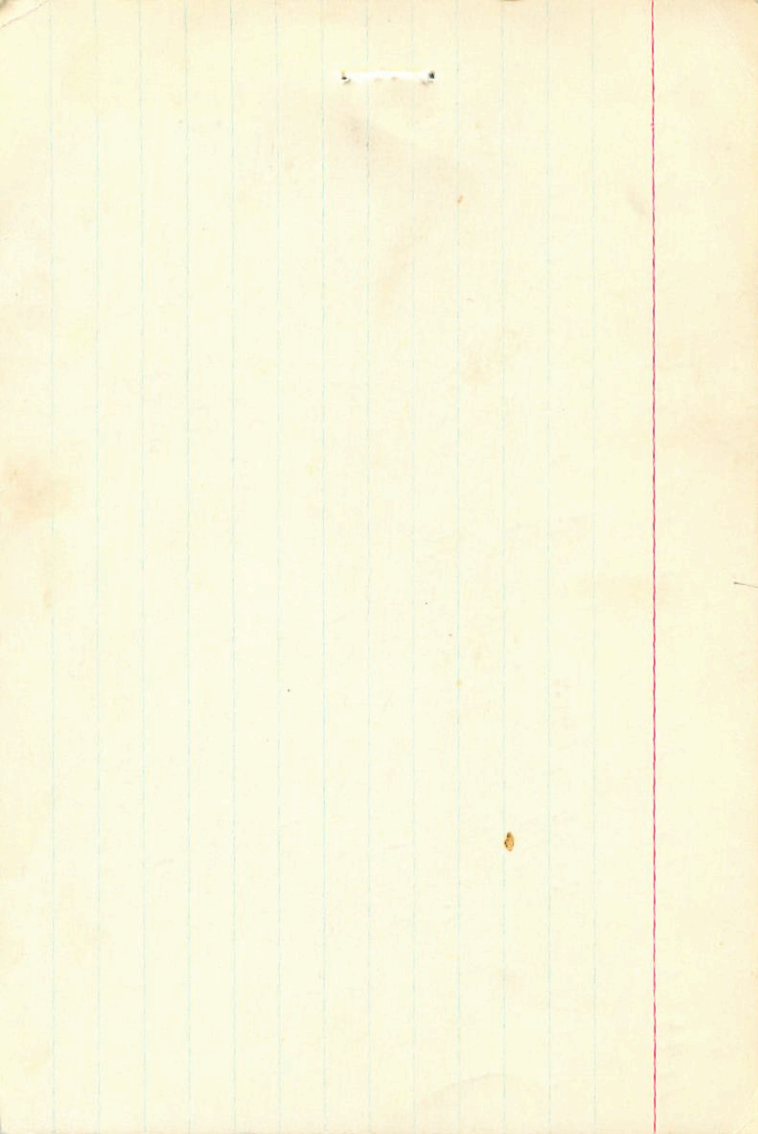
094

366

45.28

-7.68

-0278 -9790



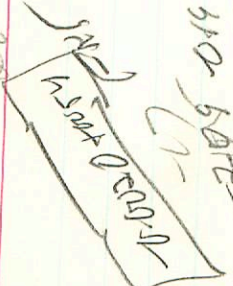
mic

8039

15551

20 30 100

20 58.2 -32 27 64 II



4.66 +0.89 +0.54 C

4.20 +0.32 +0.2 E

2109 019
14.55 0.29

-0.00007 +0.0079 FICY
-31

386
34

+17.6a
-37
54

-2
-0001



34
+0.5

394
+17.6



M



M

8039.000*

20.000*

58.200*

-32.000*

-27.000*

0.000*

0.005*

3.900*

60.256

17.600

0.002

-0.745

-12.964

0.023

0.163

4.277

0.003

-0.647

-11.201

9m1

R.A. : 20.950
DEC. : -32.450
R.A. : -3.700
DEC. : 5.400
ANCE : 3.940
ULUS : 61
VEL. : 17.600

(U) : 0.657
(U) : 0.098
(U) : -0.748
dU : -7.223
U : -13.600

10.5
41.0
106

(V) : 0.039
(V) : 0.986
(V) : 0.163
dV : 24.662
V : 4.379

(W) : -0.753
(W) : 0.136
(W) : -0.644
dW : 14.622
W : -10.436

1147 262-156 MF 35.1 2M 1169

2 me 20 58.2 -32 27 64 412.6 e

HR8039

465 4089 965

1413156

10000 +0054 FRS

1008 1005 600
1001 +0054
000 10068
1003 1006

-0001 +0079

1007.0 +0054

Family

ONE

1000 075
1000 075
1000 075

low

1000 075

1000

-1001

1000 075

1000

1000 075

1000 075

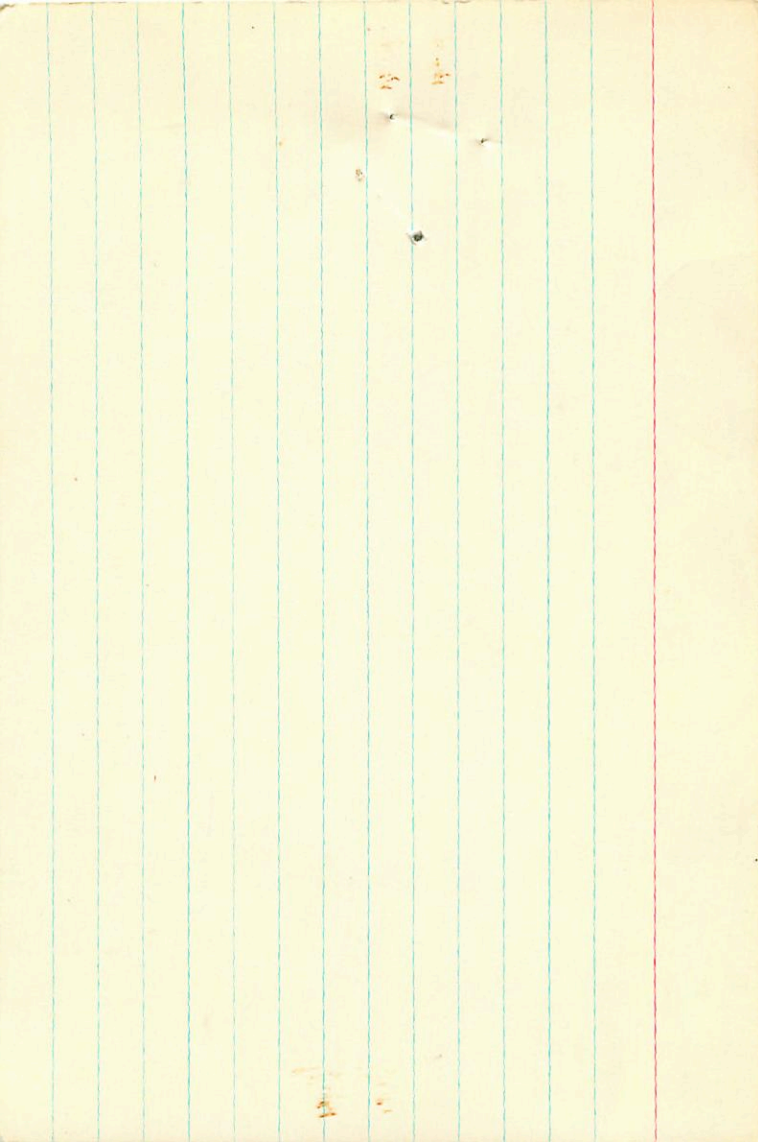
471 53333 491 @

1001

1001 1001 1001

0.814 Gamin 9415

1000 9912 536 5025 006



δ mic
 19995 | 20 58.2 27 4.7 64 +17.6e
 +0006e 2.8
 -0001
 -32

29331

13.756 1406.7
 -026
730

7.7

13.726
 -23
703

39.5

~~200~~
 -004

36.941
 36.8112
 13.772
 -19
741

13.74 / 1955.52

-7
734

-32 27 16.43 1904.9
 -23
16.66

16.74 1942.18
 +7 181
16.67

16.27
 +39

36.49
 20.25
16.74
 +19
16.53

1941.35 + 39

139143
 46.5

41.6

15.48
 -2
15.71

955.90

12

A.	:	20.950
C.	:	-32.450
A.	:	0.000
C.	:	0.000
CE	:	0.000
IS	:	10
L.	:	0.000
J)	:	0.657
J)	:	0.098
J)	:	-0.748
DU	:	0.000
U	:	0.000
V)	:	0.039
V)	:	0.986
V)	:	0.163
VP	:	0.000
V	:	0.000
W)	:	-0.753
W)	:	0.136
W)	:	-0.644
MP	:	0.000
M	:	0.000

MZ

JPA A 216336 64.2 20 35.1 Commut
31895 22 49.8 -33 OF MO +16.58

HP9695 8856 6412
W14359 4645 8.5 40 4.42 -0.03 AOV -035 -024 GC
14359 0.81 -035 -024 N

3553 0349
4347 0102 040
-0028 -024²⁶ N30
-0022 ± 2.4 -024 ± 2.4 GC → N30
8856
3489

July

347(18)

0028 -024 228
-331
-0358
-24.5 -3554 -9347 219

-0027 -021

00237 -0150

-0245
-0.0305 -022

-0028

1595

v = 0.0349 0349
0.0102 0103

10144
10209
0213

4645 8856 -9347 -3554 0430 0147 014 306
4654 9394 0588
9954 -3929 0204
W138-040
-045-010

-301 7954 -546836 -035-024 116.5 013-9.0 -095

-010-004-033-012 009 -175 +13.8 +13.2 -4.1 025

+13.5 -11.1-13.0

$\boxed{-14.5 + 17 - 16}$

+13.5 -10.6 -12.5

027

-333 7234

1467 0.81

$\boxed{-140 + 18 - 16.5}$

4851 -5397 / 0890

8941 -3419 / 0056

5 -43

28 14

8695 22 49.7 -33 08

216336 005

447-04-14 (03)

Shy.

-012 133 979 2831

124 981
258
1239

~~10025~~ -074 N30
P104

416.5 22.8
-331

-40
-24

415
44 +16.5

-03511
-0336-028

7651 1359 / 0819 415
8852 -3414 44 +16.5

$M_1 = +0.25$

$V_0 = \frac{4.4}{4.15}$

8234 -7260 0864 03498
8262 -6307 -0012 -0036

-035
0170 385

8677

22

454

~~755~~

13

AD

~~030~~

~~112~~

~~1.110~~

~~2807~~

121

1104

242

1346

148



W8

8899.000*

000*



000
001
002
003
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005
006
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008
009
010
011
012
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029
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031
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033
034
035
036
037
038
039
040
041
042
043
044
045
046
047
048
049
050

10/1

SM

22.800
-33.100
-40.000
-28.000
4.150
68
16.500

0.851
0.293
-0.437
-173.956
-18.965

-0.276
0.956
0.103
-82.993
-3.919

-0.447
-0.033
-0.894
75.459
-9.646



1/2/8

SM

22.500

-38.100

-34.500

-22.000

4.450

78

16.500

0.851

0.293

21 46.1 x 46.5 55

2.66m

35

151 151

10.46 cm

10.15 11.15

6970 6955

6945

6930 6915

8348

209636

15550

2500

10.46

10.15

11.15

✓

6925 6910

6905 6890

6875

AKS 57,58

Strickland Pond Weatherby 5 1954

HR94473

2.2 0.93 +71 572 -2.8 8

HR94474

6.38 -0.05 -0.18 -0.10 -0.24 GC

HR94475

NO

233 (76)

109434

5.49 2.1. 2.6
6.26 0.26
6.26 0.26

-0.25 134

442 0.920

AD 4319

0.733

9317

-3435

AD 155
AD 155
AD 155

93632

-0.005

9351

Pinkman G. 1976 AD 14,579

-464 554 951 311 -010-024 -2.8 -023 -2.7 -033.6

-004 -070 -009 -020 076 -050 -0.9 -0.5 +0.4 008

+3.7 -10.7 -6.5

+10.0 -12.3 -7.6

007

→ +13.4 +46 -10.7

+17.9 -14.6 -5.2

006

-15.6 +6.5 -14.8

?

5.71 124 0368 -50 (7767)

1.87

905

0 10.9 + 40 46

DA7

HR44
232nd
G2244

1910
1914
1917
1918
1919
1920

122-147
110-110

(5.6) -
5.70 + 0.2 = 0.02 2.53
222 156 613 (8) 506 2.717 (5) C

1910
1914
1917
1918
1919
1920

8 187
1.57
0.00

8741-147
-114-417

8741-147
-10637
-1067

196
981
529

196 + 19
184 + 13
171 + 4
167 + 2.45

196
184
171
167

1917
1918
1919
1920

6181
1931-1935
1931-1935
1931-1935

1931-1935
1931-1935
1931-1935

141

52

0.150	:	P.A.
48.750	:	DEC
0.000	:	P.A.
0.000	:	DEC
0.000	:	ANCE
0.000	:	PLUS
10	:	FUEL
0.000	:	(U)
0.000	:	(U)
0.000	:	DU
0.000	:	U
0.000	:	

0.150	:	(U)
0.254	:	(U)
0.840	:	DU
0.000	:	V
0.000	:	

0.154	:	(U)
0.210	:	(U)
0.262	:	(U)
0.000	:	

h1

R.A. :	0.150
DEC. :	40.750
R.A. :	0.000
DEC. :	0.000
ANCE :	0.000
ULUS :	10
VEL. :	0.000
(U) :	0.000
(U) :	0.392
dU :	0.000
U :	0.000
(V) :	-0.469
(V) :	0.254
(V) :	0.846
dV :	0.000
V :	0.000
(M) :	-0.154
(M) :	0.919
(M) :	-0.362
dM :	0.000
M :	0.000

H01051 0 12.3 -14 27 945 -8.56

125

6.9 684 0.24

G-2275

→ -7 +1

~~-092 -043 4~~
~~-067 -060 C~~

-19.24

G-6 -1046 ± 10.6 -060 ± 10.0
 $\frac{-0.44}{+2}$ -030
-3

-067 -047 G-4

0 12 15.694
224
518

190.4 -14

27 18.88
+ 2.58
15.90

1900.3

10 59.385
16.40
75.785

-0668 -036

35 27.72
8 20.44
2912.31

1934.8

12 15.782
542
16.63

037

2912.31
-140
+44
16.60

0766
-0064

960
117
-155

$\boxed{-065 -041}$ 77

16.60

8046 → 9973

1.2
7 1025

8072
306
-2

-1827
305

5938
6018

3.00
+10.7

084544-250968 -067-047 -8.5-012-2-213

003 0-067-012. 071-817 -8.2 -5 -1

-1-30-23

01

-37-4-5

-4-17-13

02

-21-5-0

~~1067 19346~~

$P_{0.5} = 1.44$

Bo

15003

$P_0 = (2.14)^2 = 4.54$

$\tau = .346$

$\Delta M = 10.013$

130

VEL.
ULLUS
ANCE
DEC.
R.A.
DEC.
R.A.
MAG.

251

R.A. :	0.200
DEC. :	-14.450
R.A. :	0.000
DEC. :	0.000
DISTANCE :	10
PARALLAX :	0.000
PROPER MOTION :	
RA :	0.868
DEC :	

S.B. orbit P=33 d

+0083 ± 33
+0083
-208 ± 2.8
-196

9312 1 29.4 716 42 6.8 G5 -4.5a

TRIP 1985 Cambridge
126-198

865
1852 29 21.143 1897.7 41 34.36 1892.6

434
20,709
0 +2
+0083 -200

ABS1202

11.94
46.30
Gr. 50 1934.6

7.0 } opt
10.0 } 44 n
21.012
+ 3
015

37.8

37.87
+ 37.54

28.0393
+ 20.512
48.5513
29 20.944
+ 591
591

1930.10

33 559.05
+ 44.62

146

66
836
25
76 69333 54207358
+ 21.0524
544
21.0524 63.14

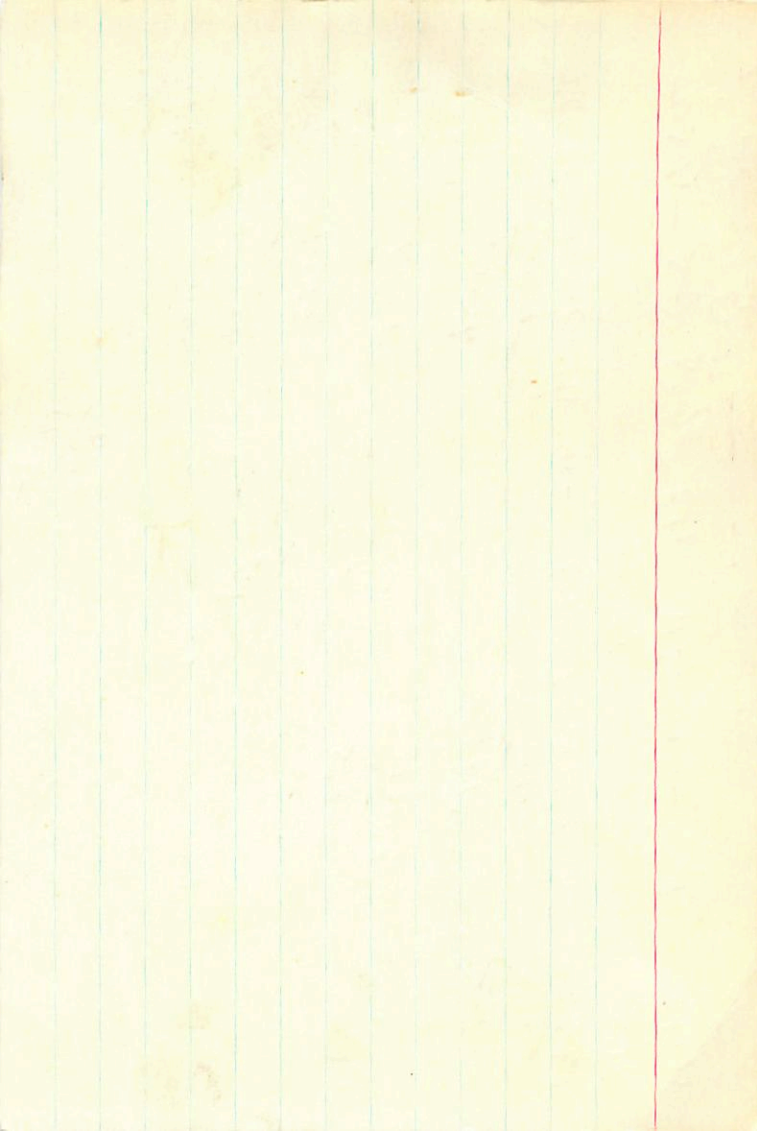
39.67
+ 39.25

3428 41
+ 9.31

345
41.9

38.09
+ 8.21

39.25
+ 9.31
34.80
+ 1.9
36.69
1934.93



217
1/7/62

700 + 1800 345 357

+ 9.9 a

3 41.0 -37 29 912

1143

4455

23019

458 + 120 + 131 C

406 + 0.40 2E

1.262 - 1.008 365 1/1 P

462 + 0.425 580

404 + 0.42

- 11 - 20
- 6008 - 068 N30 + 996

400 405

1169
1026

- 100

- 6925
+ 0036

- 080 - 070

187.8 077.2
P125E

3.05 9801 - 6588 1242
1.0 1493 - 6373 0000

4.1 9818 - 1655 1199 3
1.4 1493 - 6425 138

15 ✓
8000
14020

1574
15014
15014

490 -
- 60791 - 6690
- 25
- 210 - 050 -

1200
36 1000

LSA



191

1143.000*

3.000*

41.000*

-37.000*

-29.000*

-9.090*

-9.072*

4.100*

70.8

65.069

9.900

-9.477

9.305

-23.465

9.099

-9.524

1.360

-9.246

-9.795

-24.264

1270 4 05.2 +59 46 140

258M 630 721 384 447

(446) -0025-005 PPM

-018-008

1.249 832 261 MP

-35
-8

6.43

-14

1206 003

-1.20

0.81

5.58

166 291 182 026 151

152

W

R.A. : 4.100
DEC. : 59.750
PM. R.A. : -35.000
PM. DEC. : -8.000
DISTANCE : 6.930
MODULUS : 243
RAD. VEL. : -14.000

q1 (U) : 0.358
q2 (U) : -0.447
q3 (U) : 0.820
dU : -12.950
U : -14.633

q1 (V) : -0.648
q2 (V) : 0.514
q3 (V) : 0.562
dV : 34.663
V : 0.559

2021
35070

100 250 050 ppm
-0018 ± 5.1
-038 -041
47.3 -14 30 5.6 9.66 -2.36

3623 9124 -4051 -5735 -8153 0521 +0023 -73 -2.3 0.150 4.1
5.8
-14.5
-24
-48
5.65
-2.3

7315 20.117 1912.1 -14 29 49.25 1911.6
068
1.85
+1.77
054
+12.77
+51 195424 -2.3

AD5432
9^m 11
-022-044
11.924
8.192
20.117
124
237
147
4444
+24
1.27
1.37

9028 05 983-5712
-025-048 4183-8208
77.45
30.15
47.30
47.24
45.84
45.356
+1.46 48.49
-1.00

145
1.040
26.0
0539
0186
+2.14 404
0154 404
12.5
11.56
48.62 48.84
49.41

70.049 4444
+24
1.27
1.37
20.123
147
11.430
1938.88

-0016 -435
-00190 -0458
-00184 -0440
-00144.1
38.1
1941.86
26.5

9288
-3706

11-5503
-1183
8380

]

1237

0064

121

0156

104

153

100

100

100

100

100

100

52

- 1.5.000

- 1.4.500

- 1.26.000

- 48.000

5.650

1349.90

- 2.000

- 0.021

0.687

0.726

- 153.828

- 22.421

11.4

- 0.516

0.615

- 0.597

- 78.342

- 9.195

36

0.857

0.387

- 0.341

- 190.265

- 24.881

112

34028

8 48

-0.5

✓ 0004 -011 Country

-006 -011

✓ 0010 -013 1+

✓ 4372
✓ 7707

8MB
5804

120

~~120~~ 24.3
~~120~~ 24.6
~~120~~ 24.7
120 24.7
716

✓ 0007 -012

15.5

-010 -012

✓ 0004

710

101

134

Handwritten scribble or signature

Handwritten text, possibly a date or number

Handwritten text, possibly a name or initials

11.000
11.000

11

29 638
-0076441 -111539
-0079 -113

1041593 6 03.8 +15 33 dko -11.78 w(3)

7720 6.73 +0.81 479 502 476-259 -110 -111 6c

1086 104
123 104

48612 18884 +15 32 55.32 1888.5

461
49 073
-00775 -112 6.83
-00790 -1103 6.15

106 104
104 14.2ms
104 24 444
142 48.69 +1 3
104 698
-112
-114-110
162
687
392
3.81 1938.10 7018
-283 39.1
0.98
-25 10.5
-17 0.42
0.56 -5.73
50.6

48.638
28
6421 -7476
-7666 -6664
1873
-1029
-0.1
0.23 1940.08
0.644
-13.5
0.44
0.39

1 0 268 964 -110 -111 -11.7 -030 -3.1 -5.0₈[✓]

110 030 0 0 5₈[✓] 24₃[✓] 042₃[✓] -11.3 0 -11.3 05

+10.4 -8.5 -13.3

-12.5 -1.2 -13.8

+13.0^{-2.7} -11.9 -15.9

-13.1 -2.7 -12.4

+9.7 -8.9 -11.6

-12.4 -0.5 -11.5

+7.5 -9.3 -10.4

-12.4 0 -9.9

06
065⁷