

19 Aug

648

2

10.3 + 15 03

410 III

+ 238

13596

~~5.70 + 1.56 + 1.91~~

+ 00656 - 0187 FIDY

5.72 + 1.55 + 1.52

(5)

+ 091 ✓

4.68 + 0.72

(2)

+ 096 - 023

4.26

6.4

3.35

13596.000*

2.000*

10.300*

15.000*

3.000*

0.096*

-0.023*

6.400*

190.546

26.000

0.282

0.634

70.261

-0.367

0.360

-60.547

0.068

-0.684

-4.782

34.735 1501.0

-0034780

+00579.1

4.51 1856.5

$\frac{167}{902}$

$\frac{-1.33}{5.84}$

$\frac{2.11}{1.30}$

14.558

45.231

$\frac{34.853}{0.8}$

$\frac{.856}{1.1}$

$\frac{1.1}{1.1}$

0.12

1522.56

9.82

$\frac{85.98}{1.4}$

5.60

1.4

7.24

$\frac{-1.0}{1.34}$

1.34

-1.30

3611 9 016 -53 21 09 1192

643-27106842726 (2) ⁵⁴

41 98 689
196
885

~~PK~~ -704

9500+1200-
2025+002-
3811-
600+510-

435
95
730

Observer:

-6.514

ST

MAGN -0.079

TIME

-0.025

6.372

-0.996

-0.002

23.191

-0.051

0.079

-7.000

288.403

7.300

0.009

-0.015*

-21.000

-53.000

1.600

9.000

3611.000

Comments:

46640

(9)

119 - .100180

G266-52

00

0.58

-28

49

128+2

25 186

G267-36

129+2

24 182

-240 15

12012.5 g

221 188

S 19
Sol. 155

46640

000

-160

G266-52

-26

-249

G267-36

-8

-240

-240, 15

-31

-215

11.74 + 0.515 - 0.115 (2)

11.64 + 0.245 (1)

5.000*

0.000*

5.800*

-28.000*

-49.000*

-0.010*

-0.220*

6.500*

141 199.526

0.000

-0.528

-0.155

-75 -105.316

-0.900

0.063

-127 -179.620

0.026

-0.986

5.140

-10.220

46043

(B)

00 05.9 -26 22 11.0 : 126 103

+123 -28

10.44 to 10.46 -0.01 (D)

10.44

6.000*

0.000*

5.900*

-26.000*

-22.000*

0.125*

-0.030*

6.600*

208.930

0.000

0.449

-0.135

93.739

-0.399

0.100

-83.466

-0.102

-0.986

-21.290

7125-80 66

(10)

267-39 070 06.7 -30 52 157 +1 .20 161

880-521

144 15.1 g 196 161

267-39 +065 -189

880-521 +021 -159

14.92 +0.07 +0.175 (1)

16.5 15^m cps 880-519 88"

2171B

8.4
+40 -150
-04

10.000*

0.000*

6.700*

-30.000*

-52.000*

0.040*

-0.190*

8.400*

339 478.630

0.000

-0.251

-0.169

-85 -120.371

-0.885

0.029

-300 -423.665

0.017

-0.985

7.943

902

-3840

00

10.7

-38

06

719 MATI

0013 ± 4.4

000 ± 26

42.754

8.4

~~006~~

3.148

4.8

002

0

5.4

~~001~~

2.7

010

-7

808

~~003~~

3.21

009

7.25

+36.7

~~008~~

006

P.R.

42.752

(0.50) (0.76)

3.24

00
000

00
3.31

P.R.

42.816

(5.76)

3.01

(39.16)

3.50

00
004

1.3

3.14

42.813

00
003

00
3.41

42.820

(5.510)

3.70

00
003

1.4
3.56

0004-005
0001-003
0011

0.00-007

R.A. : 0.150
DEC. : -38.100
PM. R.A. : 0.000
PM. DEC. : -7.000
DISTANCE : 7.250
MODULUS : 282
RAD. VEL. : 36.700

q1 (U) : 0.869
q2 (U) : 0.440
q3 (U) : -0.219
dU : -14.697
U : -12.169

q1 (V) : -0.469
q2 (V) : 0.879
q3 (V) : -0.086
dV : -29.160
V : -11.371

q1 (W) : -0.154
q2 (W) : -0.177
q3 (W) : -0.972
dW : 5.884
W : -34.014

46120 00 11.4 34 22 45 144 - 101 60

087 050

1344 + 1005 + 0.865 ①

+45 +50 6.6

34.000*

0.000*

11.400*

-22.000*

-45.000*

0.085*

0.050*

6.600*

208.930

0.000

0.466

-0.085

97.288

0.015

0.145

3.072

-0.038

-0.986

-7.964

266-70 08 118 -27 48 9.0 +2 1.23 194
-250 47 7.28.0 60 1.180 185

(36)

6.46 +0.64 +0.175 ①

35-190 1.5

36.000*

0.000*

11.800*

-27.000*

-48.000*

-0.035*

-0.190*

1.500*

19.953

0.000

-0.576

-0.127

-11.497

-0.711

0.068

-14.193

0.025

-0.990

0.503

(34)

26125 . ON 11.9 -33 81 12-0 156 59

New South Sm no 9"

W 12.09 +1.025 +0.87 (1)

AG 1732 +1.02 +0.83 (1)

+135 +80 5-1



37

-24046

00

11.8

-24

12

S.O.R.O

Y

-107

-082

9.42 + 0.83 + 0.48

①

↓

105-80 3.35

37.000*
0.000*
11.800*
-29.000*
-12.000*
-0.105*
-0.080*
3.350*
46.774
0.000
-0.613
-0.138
-28.664
-0.097
0.046
-4.526
0.081
-0.989
3.796

46099

60

10.3

~~23~~ (25)

40

14.5

- 105

152

+049 -093

14.29 +0.50 -0.205 (D)

9.1
+10-95

25.000*

0.000*

10.300*

-23.000*

-40.000*

0.050*

-0.095*

9.100*

83
457

660.693

0.000

-0.013

-0.097

-6

-8.383

-0.504

0.133

-227

-333.172

-0.967

-0.986

-44.244

10.1.2020

46099

(2L)

CV

10.2

-32

23

118

144 122

10.6.7 + 083 2045-^①

455
56-75
120-0214

26.000*
0.000*
10.200*
-32.000*
-23.000*
0.120*
-0.075*
4.550*
81.283
0.000
0.329
-0.170
26.737
-0.582
-0.000
-47.292
-0.057
-0.986
-4.603

46101 00 10.4 ① -26 28 12.7 10.7 128

+082-065

11.79 +1.06 +0.925 ①

180-65465
574 52-08+

27.000*

0.000*

10.400*

-26.000*

-28.000*

0.000*

-0.065*

4.650*

85.114

0.000

0.181

-0.120

15.445

-0.449

0.091

-38.235

-0.063

-0.989

-5.377

46105

00

10.6

(99)

-22

50

13.5

104

177

+005-104

12.51+0.61-0.02①

+5 -105 7.0

29.000*

0.000*

10.600*

-22.000*

-50.000*

0.005*

-0.105*

7.000*

251.189

0.000

-0.222

-0.089

-55.746

-0.444

0.146

-111.473

-0.046

-0.985

-11.438

46167

00

11.0

-28

04

10.3

110

132

(20)

4080-025

11.04 40.84 40.53

(1)

-5.106

-0.989

-0.053

-46.968

0.065

-0.492

15.229

-0.132

0.159

0.000

95.499

4.900*

-0.075*

0.080*

-4.000*

-28.000*

11.000*

0.000*

30.000*

b.y
50-284

46105 00 11.0 -29 46 145 - 118 255

(31)

-115-030

13.45 41.00 70.66 ①

-115-30 6.2

31.000*

0.000*

11.000*

-29.000*

-46.000*

-0.115*

-0.030*

6.200*

173.780

0.000

-0.541

-0.146

-93.982

0.133

0.039

23.105

0.085

-0.989

14.752

316

-23°52'

OD 11.2

-23 30

7.0 NO

• HD541

• +120 -115

2.71'0

6.86 + 1115 + 0.93 (1)

SC-0814

282



6088
ECLAS-

0.000*

0.000*

11.200*

-23.000*

-30.000*

0.130*

-0.075*

4.850*

93.325

0.000

0.362

-0.092

33.781

-0.601

0.134

-56.125

-0.116

-0.987

-10.799

V80-691

0 11.3

-32 44

12.4 13.7 .145 94

(83)

18.22 +0.81 +0.54 (2)

+150 +55 6.4

~~11~~

33.000*

0.000*

11.300*

-32.000*

-44.000*

0.190*

0.055*

6.2
177 239.883
0.000

0.904

-0.169

+157 216.762

-0.197

-0.007

-34 -47.358

-0.153

-0.986

-36.818

-33091

00 17.5'

-32

37

00 + 00 120

(82)

Y + 046 - 097

Y + C + 081 - 116

10.50 + 0.80 + 0.37

(1)

485-710 3.5

82.000*

0.000*

17.500*

-32.000*

-37.000*

0.085*

-0.110*

3.800*

57.544

0.000

0.099

-0.148

5.680

-0.651

-0.016

-37.489

-0.004

-0.989

-0.228

824-401

070

126

-25

54

11.1

12.2

13.267272

(43)

10.61708570.54①

54
54500

83.000*

0.000*

17.600*

-25.000*

-54.000*

-0.205*

0.005*

4.500*

79.433

0.000

-0.829

-0.091

-65.840

0.494

0.086

39.211

0.119

-0.992

9.416

46220

11 127

(97)

149 12.181.179

266-90

65

17.7

-26

59

15.3+2

.20 178

267-75

15.7+2

.26 169

861-51

14418.3 R

.190 177

12.25

94 16

99

1421+0.79+0.36³⁰ (1)

1404+0.365⁵ (1)

1-8
01E-0210
120-210

84.000*

0.000*

17.700*

-26.000*

-59.000*

0.020*

-0.210*

8.100*

416.869

0.000

-0.407

-0.100

100 123 -169.873

-0.913

0.069

124 276 -380.532

-0.022

-0.993

-9.351

-33095 LTT109

46223

(85)

107 210 104

267-76

00

178

-33

03

9-3 +1.28 11

8.51 +0.715 +0.15 (2)

5
JCS-227

85.000*

0.000*

17.800*

-33.000*

-3.000*

0.235*

-0.075*

3.000*

39.811

0.000

0.793

-0.151

31.581

-0.853

-0.024

-33.960

-0.101

-0.988

-4.013

46227 00 18.4 -29 58 100 187 247

(87)

$$8.37 + 0.505 + 0.005 \text{ (1)}$$

$$\underline{9.89} + 0.525 - 0.025 \text{ (1)}$$

$$\underline{8.39} + 0.515 - 0.01 \text{ (2)}$$

170 -75 3.9

87.000*

0.000*

18.400*

-29.000*

-58.000*

-0.170*

-0.075*

3.900*

60.256

0.000

-0.870

-0.123

-52.415

0.083

0.022

5.028

0.110

-0.992

6.613

46230

80

18.6 ÷ 20

47

13.5

113

85

(90)

12.57 + 0.58 - 0.11

①

6.95
+110 +10

90.000*

0.000*

18.600*

-20.000*

-47.000*

0.110*

0.010*

6.950*

245.471

0.000

0.474

-0.043

116.468

-0.214

0.161

-52.584

-0.056

-0.986

-13.656

(92)

46232 00 18.7 -33 59 18.8 .082 98

145-1 .17 100

1467-0.055 .0825 $\text{\textcircled{D}}$

1

572 265
1120 -20
02-0214

92.000*

0.000*

18.700*

-33.000*

-59.000*

0.120*

-0.020*

2.650*

33.884

0.000

0.446

-0.156

15.124

-0.361

-0.039

-12.224

-0.056

-0.987

-1.901

46133

50

12.5

$\textcircled{43}$
-25

05

12.5

-

150

29

147 +29

11.83 +0.53 +0.61 $\textcircled{1}$

1145 130 5-0

43.000*

0.000*

12.500*

-25.000*

-5.000*

0.145*

0.030*

5.000*

100.000

0.000

0.666

-0.101

66.562

-0.203

0.108

-20.345

-0.090

-0.989

-9.035

-28051

(15)

8685

46188

60

12.6

-27

48

120

104

48

+ 99 + 20

+ 120 + 13

9.14 + 0.985 + 0.278

(1)

9.12

+ 0.555

+ 0.225

(2)

9.12

+ 0.559

+ 0.725

(2)

-1.800

-0.990

-0.067

-1.609

0.066

-0.060

13.527

-0.124

0.503

0.000

26.915

2.150*

0.040*

0.100*

-48.000*

-27.000*

12.600*

0.000*

45.000*

2-15
02 + 0014

042

-25068

00 12.7

-25

26

54

42

(47)

4 -085 -045

10.01 +0.165 +0.65

①

ST * MW * FS
" " " "

2.65

85-45
58

47.000*

0.000*

12.700*

-25.000*

-26.000*

-0.085*

-0.045*

7.650*

794

338.844

455

0.000

-0.453

-0.104

-360

-153.598

0.006

0.102

2.015

0.048

-0.989

16.293

46144

00

13.0

~~46~~ 26

59

13.0

128

54

4104 + 25

12.59 70.645 70.15 (1)

-14.840

-0.990

-0.065

16.824

0.078

0.073

138.308

-0.116

0.604

0.000

229.087

6.800*

0.075*

0.105*

-59.000*

-26.000*

13.000*

0.000*

49.000*

5.7
56+5014

Observer:

Date: / - /

STAR

TIME

-13.565

-0.985

-0.130

3.078

-0.020

0.029

76.636

-0.173

0.732

0.000

104.713

5.100*

0.080*

0.135*

-31.000*

-33.000*

11.900*

0.000*

36.000*

Comments:

L. 057

13" 55 12.7 - 13.8

46146/7

020 13.0

-32 36

13.1

141 151

+ 68 - 123

11.45 +0.745 +0.25 ②

13.52 +1.11 +1.02 ②

9.05

109 501-Net

50.000*

0.000*

13.000*

-32.000*

-36.000*

0.070*

-0.125*

6.100*

165.959

0.000

0.009

-0.162

1.552

-0.679

-0.008

-112.686

0.004

-0.987

0.685

46150

L-1116

02 13.1

~~41~~ (51)

54

124 - 202 95

-28069

02 13.0

-24

53

11.5 12.2 14 146 109

+202 -30

12.15 + 0.45 + 0.55

12.14 + 0.43 + 0.52 (1)

12.16 + 0.97 + 0.59 (1)

11.66 + 0.43 (2)

11.28

10.68

-1.99

12.39

12.4

1.11

-07

195-30 4.4

427 ~~300~~ 555⁴⁹

51.000*

0.000*

13.100*

-24.000*

-53.000*

0.195*

-0.030*

4.400*

75.858

0.000

1.16

0.732

-0.098

470 55.564

-0.566

0.110

-42.900

-0.135

-0.989

-10.235

46155

(1)

15.5

11.2 7.2 234 93

(55)

266-58

00

13.5

-22

42

11.5 +2

23

109

-23078 9065

8.799 25.016 112

Y +192 -095

89M+233 -012

E +1017 -075

9.777

9.78 +0.72 +0.16 (1)

9.78 +0.73 +0.18 (1)

9.77 +0.73 +0.17 (2)

9.67 +0.265 (1)

4210-60 3.7

55.000*

0.000*

13.500*

-22.000*

-42.000*

0.210*

-0.060*

3.700*

54.954

0.000

0.723

-0.078

39.758

-0.723

0.142

-39.721

-0.161

-0.987

-8.838

46157 00 13.6 -26 02 13.0 113 103

(57)

110 -25

11.84 71045 +087 ①

L.H. 5E-0114
4.7

57.000*

0.000*

13.600*

-26.000*

-2.000*

0.110*

-0.025*

4.700*

87.096

0.000

0.395

-0.106

34.362

-0.353

0.091

-30.754

-0.075

-0.990

-6.497

-25061

(60)

46162

60

13.6

-28

03

11.5

72

21 244

266-79

60

13.6

-28

03

11.5

72

21 244

267-62

60

13.6

-28

03

10.7

71

23 252

8.5 8.4 60.15 250

9.34 + 0.65 + 0.085 (1)

(9.32 + 0.22 (1))

-195-60 3.85

60.000*

0.000*

13.600*

-28.000*

-3.000*

-0.195*

-0.060*

3.850*

58.884

0.000

-0.939

-0.123

-55.282

0.193

0.060

11.390

0.128

-0.991

7.541

62

-34067

00

124

-33

45

954

46

65

4+6

+085

-069

①
9.53+0.785+0.375

485-75 3.6

62,000*
0,000*
13,000*
-33,000*
-45,000*
0,085*
-0,075*
3,600*
52,481
0,000
0,183
-0,169
9,597
-0,505
-0,027
-26,500
-0,017
-0,985
-0,917

46.192 50 16.0 -27 21 11.6 113 94

(71)

(1)
10.45 + 0.60 + 0.07
10.50 + 0.64 + 0.13 (1)
10.45 + 0.62 + 0.10 (2)

4110-5 5.4

71.000*

0.000*

16.000*

-27.000*

-21.000*

0.110*

-0.005*

5.400*

120.226

0.000

0.440

-0.109

52.893

-0.273

0.067

-32.803

-0.067

-0.992

-8.001

(10)

-25096

00

17.4

-2²5

24

7.5 100

Y + 025 - 137

2.48 + 1.125 + 10750

6.52 + 0.4150

1

425-135 0.2

80.000*

0.000*

17.400*

-25.000*

-24.000*

0.025*

-0.135*

0.200*

10.965

0.000

-0.213

-0.087

-2.341

-0.614

0.094

-6.727

-0.039

-0.992

-0.429

(91)

-260104 00 186 -26 32 8.5 155

7-120 +022

9.36 +0.515 -0.065 ①

557
024 021
120 + 20

91.000*

0.000*

18.600*

-26.000*

-32.000*

-0.120*

0.020*

4.550*

81.283

0.000

-0.445

-0.093

-36.160

0.360

0.074

29.297

0.069

-0.993

5.572

-33 0.105

477 179

(93)

46236

118 209 32

267-83

00 19.1 -33 20 11.1 +2 .21 32

new? $\Delta m = 0.5'' \approx 3''$

9.64 + 1.08 + 0.765 (1)

9.14 + 0.475 (1)

COD

-32049

(24)

0

10.3

-32

11

2.91+42

60

Y +104 +083

Y+C +123 +044

8.78+0.725 +0.82 (1)

115-40 3.15

24.000*
0.000*
10.300*
-32.000*
-11.000*
0.115*
0.040*
3.150*
42.658
0.000
0.562
-0.168
23.971
-0.090
0.003
-3.846
-0.096
-0.986
-4.090

46129 60 12.4 -25 (40) 42 12.7 100 110

+94 -34

11.92 +0.925 10.585 (1)

5-1
53-35
45

40.000*

0.000*

12.400*

-25.000*

-42.000*

0.095*

-0.035*

5.100*

104.713

0.000

0.310

-0.107

32.493

-0.359

0.098

-37.638

-0.069

-0.989

-7.258

46158 00 15.6 -21 53 14.4 106 191

(19)

Two possible nearby islands.

13.57 + 0.835 + 0.405 (D)

13.71 + 0.825 + 0.32 (D)

Summit

46159

140

200 206

267-66

50

156

-31

33

13.4 + 1.25 154

980-852

13.1 14.0 q-r 207 202

(70)

13.22 + 0.535 - 0.19 (1)

13.22 + 0.25 (1)

40.033

-0.989

0.113

-229.600

-162

0.003

-0.647

-277.355

-191

-0.145

-0.782

0.000

354.813

251

7.750*

7.0

-0.200*

-0.080*

-33.000*

-31.000*

15.600*

0.000*

70.000*

577

205-02

46177 00 15.1 -25 34 11.4 107 78

(68)

10.48 + 0.59 + 0.09 (1)
10.54 + 0.63 + 0.10 (1)
10.51 + 0.61 + 0.095 (2)

S.S
Oct 5/14

68.000*

0.000*

15.100*

-25.000*

-34.000*

0.105*

0.020*

5.500*

125.893

0.000

0.478

-0.097

60.135

-0.157

0.095

-19.792

-0.062

-0.991

-7.767

600

-35056

(41)

100 12.5 -33 52

909034 60

Y +116 -036

Y+6+102 -040

909 10.53 10.035 ①

2

41.000*

0.000*

12.500*

-33.000*

-52.000*

0.110*

-0.040*

4.600*

83.176

0.000

0.364

-0.174

30.298

-0.415

-0.027

-34.524

-0.053

-0.984

-4.429

110-40 4.6

46141 070 12.6 (46) -30 16 148 127 174

+13 -126

14.01 to 0.97 to 0.215 (1)

46.000*

0.000*

12.600*

-30.000*

-16.000*

0.015*

-0.125*

7.600*

331.131

0.000

-0.220

-0.145

-53 -72.864

-0.554

0.028

-133 -183.600

0.016

-0.989

5.401

7.6

6.9
240

821-920-1

46074

07 168

24 28 74

28

9.3 15

10.40.40.44-0055 1

85-130 5.9

6.084

-0.992

0.040

-69.310

0.033

-0.458

-66.995

-0.124

-0.443

0.000

151.356

5.900*

-0.130*

-0.035*

-28.000*

-29.000*

16.800*

0.000*

74.000*

-23⁰111

BD (94)

14.3

-23

17

24 8-0

ADD 53024

2.5-8.7 6"

A

2.20 to .54

+1000

(1)

1

180-95 3-1

94.000*
0.000*
19.300*
-23.000*
-17.000*
0.000*
-0.095*
3.100*
41.687
0.000
0.103
-0.062
4.281
-0.575
0.122
-23.950
-0.077
-0.991
-3.217

-27095 LT1184

46241

(96)

10.7 467 24

266-97

00

19.6

-26

59

10.4 + 2

139

80

267-85

10.7 + 2

139

80

8.3 9.2 80 438 80

8.95 + 0.66 + 0.12 (1)

8.70 + 0.26 (2)

+ 710 + 70 3.40

-10.397
-0.993
-0.217
-31.853
0.665
-0.666
88.214
-0.093
1.843
0.000
47.863
3.400*
0.070*
0.410*
-59.000*
-26.000*
19.600*
0.000*
96.000*

LT 195

(58)

266-98

07 196 -25 13 11.3 + 2 . 24 204

-250112

9596 85 . 232 215

250112

944 10.20 10.13 (2)

502-511-3.5

1.096
-0.993
0.022
-28.786
0.092
-0.574
-47.836
-0.078
-0.954
0.000
50.119
3.500*
-0.205*
-0.115*
-13.000*
-25.000*
19.600*
0.000*
98.000*

46260

00 20.8

-22

52

13.8 096 235

(107)

13.04 1041 -0-10 (1)

1-5 55-08

107.000*

0.000*

20.800*

-22.000*

-52.000*

-0.080*

-0.055*

9.100*

660.693

0.000

-0.458

-0.054

-302.736

-0.037

0.125

-24.733

0.020

-0.991

13,238

46261

-330118

LT 7199

00

20.8-33

27

(108)

11.4120 : 214343

+6 +131

-006 +133

8.75 +1.07 +0.40 0

51 0511 + 24

108.000*

0.000*

20.800*

-33.000*

-27.000*

-0.040*

0.150*

1.500*

19.953

0.000

0.180

-0.145

3.599

0.712

-0.035

14.197

-0.052

-0.989

-1.030

46263

50 210

-23

32

121

134

180

(109)

1103 + 10835 + 1050

①

05
58-514
+

109.000*

0.000*

21.000*

-23.000*

-32.000*

0.105*

-0.085*

5.000*

100.000

0.000

0.227

-0.059

22.731

-0.593

0.115

-59.298

-0.082

-0.992

-8.209

46243

07 14.6

-22

52

12.6

102

65

(97)

12.06 + 0.86 + 0.56 ①

-250113

070 19.6

-24

(94)

55 12.0 12.1 4.202110

46244

425-80 63 " 350°
17.1 18.5

12.30 + 1.09 + 0.585 (1)

11.87 + 0.40 (1)

15
0
0514

99.000*

0.000*

19.600*

-24.000*

-55.000*

0.150*

0.000*

5.100*

104.713

0.000

0.614

-0.076

64.314

-0.349

0.097

-36.539

-0.081

-0.992

-8.456