

2067

1980

1980

Dec 27.0

1950.0

306.33814

302.98962

150.36452

3.06671

$H = 10.49$   
AKS NES = 1936 DD  $\phi = 42.59 \pm 2.0$   $alb = 0.063$

0.1838706 452.22080 3.9485474 .Bardwell BV 50pp. 1936-75 MPC 4409

9MP      Epoca      Equinocio      M      W      Ω      i

2246

1982      1982 Ago 19      1950.0      67.59858      29.41865      155.34501      6.49726

2312

1983      1983 Set. 23.0      1950.0      115.75704      350.90375      61.87821      5.21105

2483

1984      1984 Oct. 27      1950.0      311.14361      183.86609      251.68620      4.49909

2608

1984      1984 Oct 27      1950.0      245.30691      32.46890      169.84070      15.63703

2624

1984      1984 Oct 27      1950.0      332.93907      149.26844      161.84181      2.75336

e

$H = 10,71$

50

 $\mu$ 

$\phi = 44,21 \pm 3,2$

a

$alb = 0,054$

Ref

BOWELL

$= 1979 \text{ XH}$

0.0956834

453.53005

3.9409448

C Bardwell BV 4opp. 1973-80 MPC 5320

$H = 10,24$

18

$\phi = 51,94 \pm 3,1$

$alb = 0,050$

DUBOSHIN

$= 1976 \text{ GU}_2$

0.1372459

447.02989

3.9790557

Bardwell BV 5opp. 1943-80 MPC 5646

$H = 11,18$

10,80

$\phi = 44,17 \pm 3,9$

$alb = 0,043$

GUINEVERE

$= 1928 \text{ QB}$

0.2737489

448.11237

3.9726450

Bardwell BV 5opp. 1928-79 MPC 6470

SENECA

$H = 17,57$

0.5865797

909.45093

2.4782867

Marsden 20p1 1978-82 #6827 BV

SAMITCHELL

$H = 10,6$

$= 1962 \text{ RE}$

0.1205032

446.00932

3,9

~~2.196.1940~~

Bardwell BV # 6884 6opp. 1954-82

SMP

Epoce

Equinocio

M

w

 $\Omega$ 

i

2760

|      |              |        |          |           |           |          |
|------|--------------|--------|----------|-----------|-----------|----------|
| 1984 | 1984 Oct. 27 | 1950.0 | 49.59848 | 160.32126 | 352.56638 | 13.44879 |
| 1985 | 1985 Dec. 1  | "      | 99.62655 | 31945     | 55835     | 641      |

2959

|      |             |        |          |           |           |         |
|------|-------------|--------|----------|-----------|-----------|---------|
| 1986 | 1986 Jun 19 | 1950.0 | 84.00852 | 285.76047 | 120.99098 | 5.23471 |
|------|-------------|--------|----------|-----------|-----------|---------|

3134

|      |             |        |          |           |           |         |
|------|-------------|--------|----------|-----------|-----------|---------|
| 1986 | 1986 Jun 19 | 1950.0 | 70.27892 | 165.05412 | 256.67467 | 7.62684 |
|------|-------------|--------|----------|-----------|-----------|---------|

3202

|      |             |        |           |           |           |          |
|------|-------------|--------|-----------|-----------|-----------|----------|
| 1987 | 1987 Jul 24 | 1950.0 | 347.74703 | 270.90120 | 204.95419 | 11.04769 |
|------|-------------|--------|-----------|-----------|-----------|----------|

3254

|      |             |        |           |           |          |         |
|------|-------------|--------|-----------|-----------|----------|---------|
| 1987 | 1987 Jul 24 | 1950.0 | 239.00106 | 307.84014 | 43.62245 | 4.46676 |
|------|-------------|--------|-----------|-----------|----------|---------|



$\Delta MP$      $Epoce$      $Equinocio$      $M$      $W$      $\Omega$      $i$

$\Delta 3290$

1987    1987 Jul 24    1950.0    81.96445    117.57142    74.89437    2.76754

3415

1988    1988 Aug. 27    1950.0    201.29570    138.09958    253.74276    1.35601

$H=11.8$

3514

1989    1989 Oct. 1.0    1950.0    125.91119    344.63018    24.28174    3.51124

$H=16.8$

3551

1989    1989 Oct 1.0    1950.0    255.68374    316.57347    350.07178    30.74613

3561

1989    1989 Oct 1.0    1950.0    220.92104    181.26616    117.54143    9.65997

$H=11.0$

3571

1989    1989 Oct 1.0    1950.0    264.69093    25.06843    248.68476    7.83612

$H=10.7$

3577

1989    1989 Oct. 1.0    1950.0    118.74914    180.74845    280.17711    3.74176

e

H

a

Ref.

$H=11.5$   
 : A ZABU = 1973 SZ<sub>1</sub>

0.1218357

447.4522

3.9765515

K. Hukukawa El 3opp 1973-85 MPC 9952

DANBY

$H=10.8$   
 $\phi = 32.49 \pm 2.0$   
 = 1928 SL

all = 0.106

0.2490154

448.74943

3.9688843

B. Marsden Sopp. 1928-1986 (MPC 10610) El.

= 1971 UJ

0.2005714

454.76478

3.9338080

B. Marsden 2opp 1<sup>a</sup>

= 1983 SA

0.7130884

406.92571

4.2363740

B. Marsden 2opp. 1983-1986 El.  $\delta = 2.9$  MPC 11616

DEVINE

$H=10.8$   
 $\phi = 32.74 \pm 2.3$

0.087

0.1312794

450.30478

3.9597401

C. Bandwell, 5opp. 1977-86 El  $\delta = -2.7$  #11627 $\phi = 38.88 \pm 3.2$ 

= 1982 EJ

0.042

0.1178890

455.30402

3.9307015

J. Green, El 4opp. 1976-87  $\delta = -2.9$  #11729

= 1969 TK

0.1891734

449.89891

3.9621212

C. Bandwell El 6opp. 1971-87  $\delta = -4.5$  #11734

| $\Theta$ MP | Epoch         | Equinox | M         | $\omega$  | $\Omega$ | $i$              |
|-------------|---------------|---------|-----------|-----------|----------|------------------|
|             |               |         |           |           |          | $H=12.2$<br>3601 |
| 1989        | 1989 Oct. 1.0 | 1989.0  | 230.04510 | 346.28284 | 61.44868 | 2.30781          |

|      |               |        |           |          |           |                  |
|------|---------------|--------|-----------|----------|-----------|------------------|
|      |               |        |           |          |           | $H=11.0$<br>3655 |
| 1989 | 1989 Oct. 1.0 | 1990.0 | 125.16603 | 42.79293 | 337.86844 | 3.84496          |

|      |               |      |           |          |       |                        |
|------|---------------|------|-----------|----------|-------|------------------------|
|      |               |      |           |          |       | $H=12$<br>3694<br>3647 |
| 1989 | 1989 Oct. 1.0 | 1950 | 221.46070 | 82.67764 | 311.3 | 4.94720                |

e                       $\mu$                        $\alpha$                       Ref.

$$= 1979 \text{ SP}_9 = 579509P$$

0.1479970      605.51075      3.2502977      Marston, 4 opp. 1977-87  $\alpha$  +3.0 MPC 11846

$$\text{EUPRAKSIA} = 1978 \text{ SA}_3 = 578503A$$

0.2090165      444.92252      3.9916102      Marston, 3 opp. 1978-1986  $\alpha$  +3.6 MPC 12009

$H = 10.4^{+0.50}_{-0.50}$        $\delta = 45.24 \pm 3.6$       0.055

$$\text{SHARON} = 1984 \text{ SH}_5$$

0.1968699      451.24038      3.9542648      Marston, 4 opp. 1979-87  $\alpha$   $\delta = -3.0$  MPC 12311