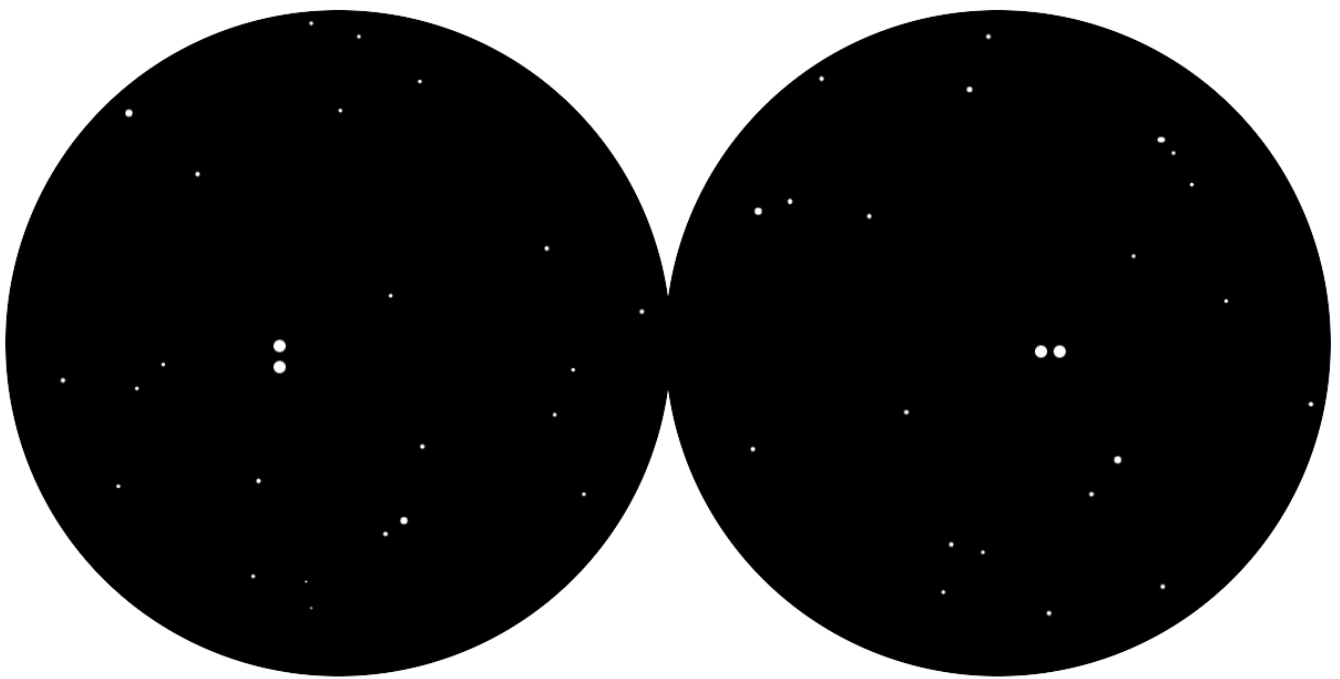


Astronomical League

Binocular Double Star Club



Logbook

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The 28 stars with asterisks are also required for the regular AL Double Star Club. The two stars marked (U) are required for the AL Urban Club.

**Abbreviations** on following pages: RA, right ascension; Dec, declination; Loc, location; S, seeing; T, transparency; C or CDSA, *Cambridge Double Star Atlas*; P or PSA, *Pocket Sky Altas*

**RA 00-01**

**CDSA 2, 6, 12, 13**

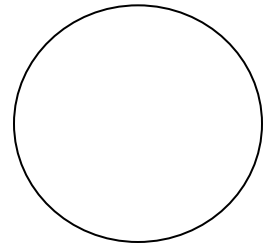
**PSA 1, 3, 5, 7, 72**

**Alpha Cas (Schedir)** Date \_\_\_\_\_ Time \_\_\_\_\_ Loc \_\_\_\_\_

RA 00 40 S \_\_\_\_\_ T \_\_\_\_\_ Instrument \_\_\_\_\_

Dec +56 32 Notes \_\_\_\_\_

C 2; P 1, 3, 72 \_\_\_\_\_

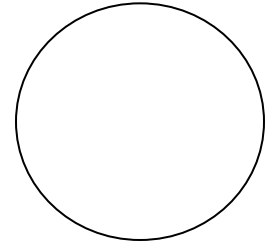


**Psi 1 Psc** Date \_\_\_\_\_ Time \_\_\_\_\_ Loc \_\_\_\_\_

RA 01 05 S \_\_\_\_\_ T \_\_\_\_\_ Instrument \_\_\_\_\_

Dec +21 28 Notes \_\_\_\_\_

C 6; P5 \_\_\_\_\_

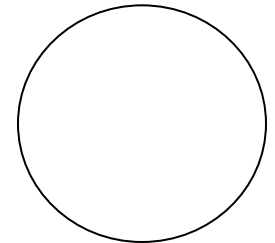


**37 Cet** Date \_\_\_\_\_ Time \_\_\_\_\_ Loc \_\_\_\_\_

RA 01 14 S \_\_\_\_\_ T \_\_\_\_\_ Instrument \_\_\_\_\_

Dec -07 55 Notes \_\_\_\_\_

C 12, 13; P 7 \_\_\_\_\_

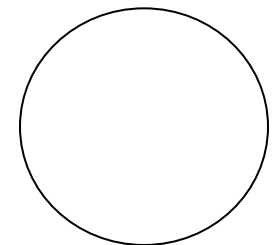


**Phi Cass** Date \_\_\_\_\_ Time \_\_\_\_\_ Loc \_\_\_\_\_

RA 01 20 S \_\_\_\_\_ T \_\_\_\_\_ Instrument \_\_\_\_\_

Dec +58 14 Notes \_\_\_\_\_

C 2; P 1, 3, 72 \_\_\_\_\_

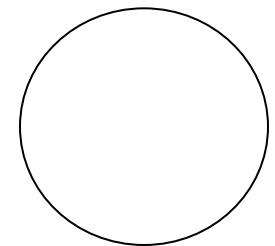


**93/94 Rho Psc** Date \_\_\_\_\_ Time \_\_\_\_\_ Loc \_\_\_\_\_

RA 01 26 S \_\_\_\_\_ T \_\_\_\_\_ Instrument \_\_\_\_\_

Dec +19 10 Notes \_\_\_\_\_

C 6, 12; P 5 \_\_\_\_\_

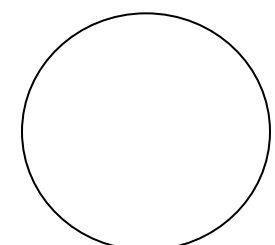


**Chi Cet** Date \_\_\_\_\_ Time \_\_\_\_\_ Loc \_\_\_\_\_

RA 01 49 S \_\_\_\_\_ T \_\_\_\_\_ Instrument \_\_\_\_\_

Dec -10 41 Notes \_\_\_\_\_

C 12, 13; P 6 \_\_\_\_\_

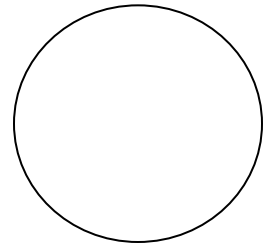


**RA 01-03**

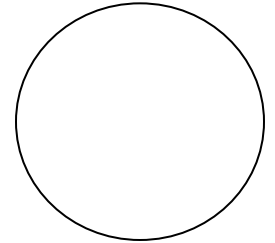
**CDSA 2, 6, 7**

**PSA 2, 4, 13, 15, A**

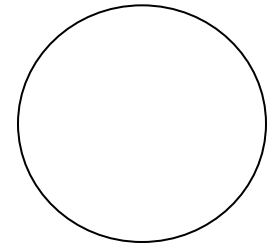
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RA 01 56 S \_\_\_\_ T \_\_\_\_ Instrument \_\_\_\_\_  
Dec +37 15 Notes \_\_\_\_\_  
C 2, 6, 7; P 2 \_\_\_\_\_



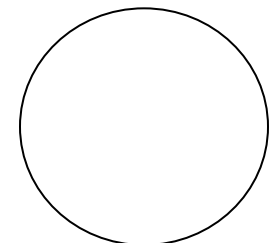
**14 Ari** Date \_\_\_\_\_ Time \_\_\_\_\_ Loc \_\_\_\_\_  
RA 02 09 S \_\_\_\_ T \_\_\_\_ Instrument \_\_\_\_\_  
Dec +25 56 Notes \_\_\_\_\_  
C 6; P 2, 4 \_\_\_\_\_



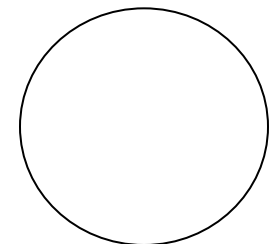
**59 And** Date \_\_\_\_\_ Time \_\_\_\_\_ Loc \_\_\_\_\_  
RA 02 10 S \_\_\_\_ T \_\_\_\_ Instrument \_\_\_\_\_  
Dec +39 02 Notes \_\_\_\_\_  
C 2, 6, 7; P 2 \_\_\_\_\_



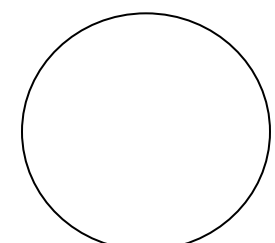
**15 Tri** Date \_\_\_\_\_ Time \_\_\_\_\_ Loc \_\_\_\_\_  
RA 02 35 S \_\_\_\_ T \_\_\_\_ Instrument \_\_\_\_\_  
Dec +34 41 Notes \_\_\_\_\_  
C 7; P 2, 4, 13 \_\_\_\_\_



**33 Ari** Date \_\_\_\_\_ Time \_\_\_\_\_ Loc \_\_\_\_\_  
RA 02 40 S \_\_\_\_ T \_\_\_\_ Instrument \_\_\_\_\_  
Dec +27 04 Notes \_\_\_\_\_  
C 7; P 2, 4, 13 \_\_\_\_\_



**19 Tau (Taygeta)** Date \_\_\_\_\_ Time \_\_\_\_\_ Loc \_\_\_\_\_  
RA 03 45 S \_\_\_\_ T \_\_\_\_ Instrument \_\_\_\_\_  
Dec +24 28 Notes \_\_\_\_\_  
C 7; P 13, 15, A \_\_\_\_\_

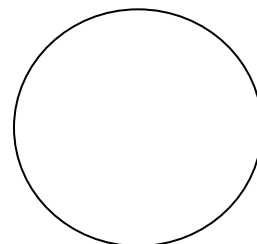


**RA 03-04**

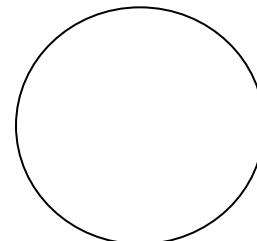
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**PSA 13, 15, A**

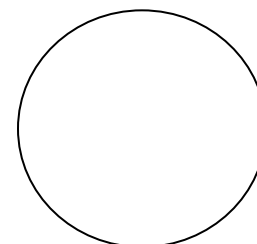
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RA 03 45 S \_\_\_\_ T \_\_\_\_ Instrument \_\_\_\_\_  
Dec +24 32 Notes \_\_\_\_\_  
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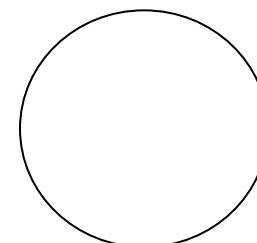
**Eta Tau (Alcyone)** Date \_\_\_\_\_ Time \_\_\_\_\_ Loc \_\_\_\_\_  
RA 03 47 S \_\_\_\_ T \_\_\_\_ Instrument \_\_\_\_\_  
Dec +24 06 Notes \_\_\_\_\_  
C 7 ; P 13, 15, A \_\_\_\_\_



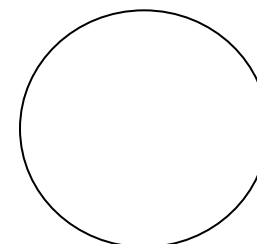
**Phi Tau** Date \_\_\_\_\_ Time \_\_\_\_\_ Loc \_\_\_\_\_  
RA 04 20 S \_\_\_\_ T \_\_\_\_ Instrument \_\_\_\_\_  
Dec +27 21 Notes \_\_\_\_\_  
C 7 ; P 13, 15 \_\_\_\_\_



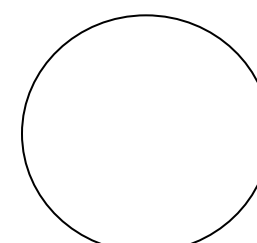
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RA 04 23 S \_\_\_\_ T \_\_\_\_ Instrument \_\_\_\_\_  
Dec +24 18 Notes \_\_\_\_\_  
C 7 ; P 13, 15 \_\_\_\_\_



**K 1&2 Tau** Date \_\_\_\_\_ Time \_\_\_\_\_ Loc \_\_\_\_\_  
RA 04 25 S \_\_\_\_ T \_\_\_\_ Instrument \_\_\_\_\_  
Dec +22 18 Notes \_\_\_\_\_  
C 7 ; P 15 \_\_\_\_\_



**θ 1 & 2 Tau** Date \_\_\_\_\_ Time \_\_\_\_\_ Loc \_\_\_\_\_  
RA 04 28 S \_\_\_\_ T \_\_\_\_ Instrument \_\_\_\_\_  
Dec +15 52 Notes \_\_\_\_\_  
C 7, 13, 14; P 15 \_\_\_\_\_

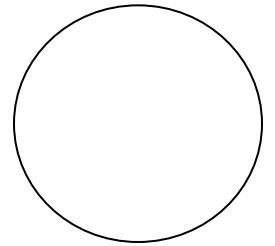


**RA 04-05**

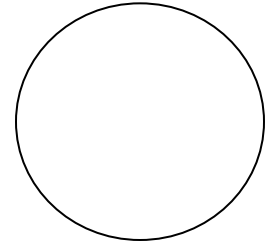
**CDSA 1, 3, 7, 13, 14**

**PSA 11-13, 15, 16**

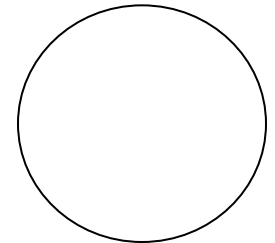
**57 Per**      Date \_\_\_\_\_ Time \_\_\_\_\_ Loc \_\_\_\_\_  
RA 04 33      S \_\_\_\_ T \_\_\_\_ Instrument \_\_\_\_\_  
Dec +43 04      Notes \_\_\_\_\_  
C 3, 7; P 12, 13 \_\_\_\_\_



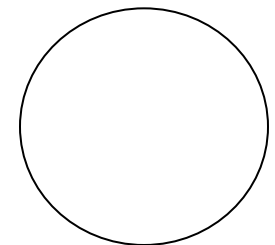
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RA 04 35      S \_\_\_\_ T \_\_\_\_ Instrument \_\_\_\_\_  
Dec +10 10      Notes \_\_\_\_\_  
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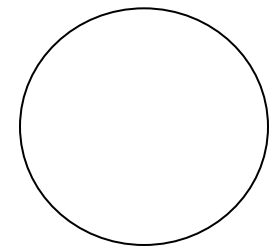
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RA 04 39      S \_\_\_\_ T \_\_\_\_ Instrument \_\_\_\_\_  
Dec +15 55      Notes \_\_\_\_\_  
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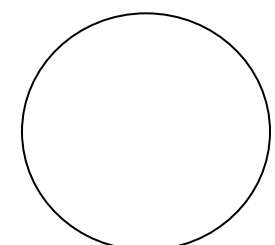
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RA 04 42      S \_\_\_\_ T \_\_\_\_ Instrument \_\_\_\_\_  
Dec +22 57      Notes \_\_\_\_\_  
C 7; P 15 \_\_\_\_\_



**62 Eri**      Date \_\_\_\_\_ Time \_\_\_\_\_ Loc \_\_\_\_\_  
RA 04 56      S \_\_\_\_ T \_\_\_\_ Instrument \_\_\_\_\_  
Dec -05 10      Notes \_\_\_\_\_  
C 13, 14; P 16 \_\_\_\_\_



**Beta Cam**      Date \_\_\_\_\_ Time \_\_\_\_\_ Loc \_\_\_\_\_  
RA 05 03      S \_\_\_\_ T \_\_\_\_ Instrument \_\_\_\_\_  
Dec +60 27      Notes \_\_\_\_\_  
C 1, 3; P 11, 12 \_\_\_\_\_

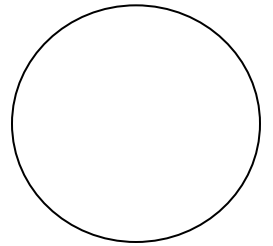


**RA 05-06**

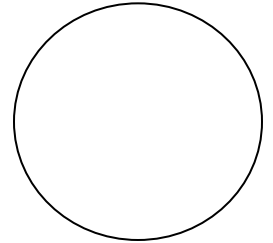
**CDSA 1, 3, 14, 21**

**PSA 11, 12, 14, 16, 23, B**

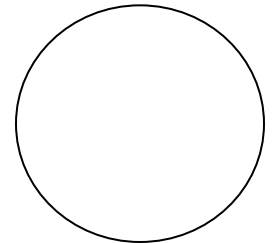
**11/12 Cam** Date \_\_\_\_\_ Time \_\_\_\_\_ Loc \_\_\_\_\_  
RA 05 06 S \_\_\_\_ T \_\_\_\_ Instrument \_\_\_\_\_  
Dec +58 58 Notes \_\_\_\_\_  
C 1, 3; P 11, 12 \_\_\_\_\_



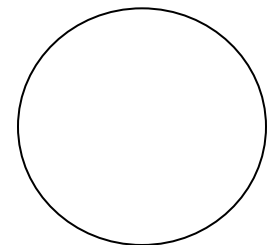
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RA 05 32 S \_\_\_\_ T \_\_\_\_ Instrument \_\_\_\_\_  
Dec -00 18 Notes \_\_\_\_\_  
C 14; P 14, 16 \_\_\_\_\_



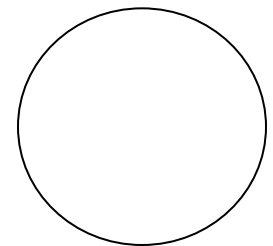
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C 14; P 14, 16, B \_\_\_\_\_



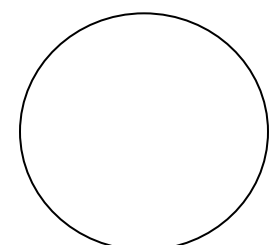
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RA 05 35 S \_\_\_\_ T \_\_\_\_ Instrument \_\_\_\_\_  
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C 14; P 14, 16, B \_\_\_\_\_



**Gamma Lep** Date \_\_\_\_\_ Time \_\_\_\_\_ Loc \_\_\_\_\_  
RA 05 44 S \_\_\_\_ T \_\_\_\_ Instrument \_\_\_\_\_  
Dec -22 27 Notes \_\_\_\_\_  
C 21; P 16 \_\_\_\_\_



**35 Cam** Date \_\_\_\_\_ Time \_\_\_\_\_ Loc \_\_\_\_\_  
RA 06 04 S \_\_\_\_ T \_\_\_\_ Instrument \_\_\_\_\_  
Dec +51 34 Notes \_\_\_\_\_  
C 3; P 12, 23 \_\_\_\_\_

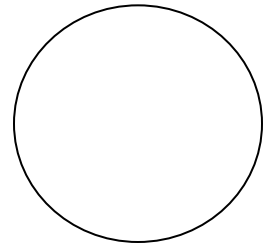


**RA 06-07**

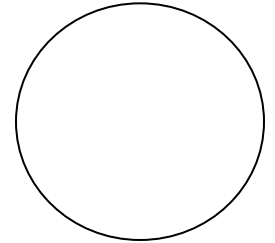
**CDSA 3, 8, 14, 22**

**PSA 12, 14, 21, 23, 25, 27**

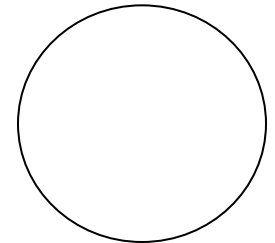
**5 Lyn**      Date \_\_\_\_\_ Time \_\_\_\_\_ Loc \_\_\_\_\_  
RA 06 26      S \_\_\_\_ T \_\_\_\_ Instrument \_\_\_\_\_  
Dec +58 25      Notes \_\_\_\_\_  
C 3; P 12, 21, 23 \_\_\_\_\_



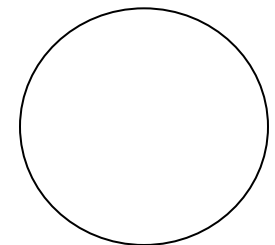
**Nu Gem**      Date \_\_\_\_\_ Time \_\_\_\_\_ Loc \_\_\_\_\_  
RA 06 29      S \_\_\_\_ T \_\_\_\_ Instrument \_\_\_\_\_  
Dec +20 13      Notes \_\_\_\_\_  
C 8, 14; P 14, 23, 25 \_\_\_\_\_



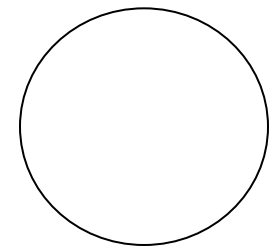
**20 Gem**      Date \_\_\_\_\_ Time \_\_\_\_\_ Loc \_\_\_\_\_  
RA 06 32      S \_\_\_\_ T \_\_\_\_ Instrument \_\_\_\_\_  
Dec +17 47      Notes \_\_\_\_\_  
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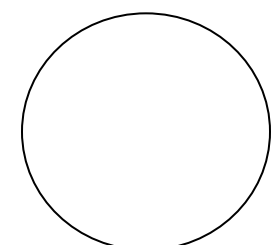
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RA 07 04      S \_\_\_\_ T \_\_\_\_ Instrument \_\_\_\_\_  
Dec +20 34      Notes \_\_\_\_\_  
C 8; P 25 \_\_\_\_\_



**h 3945 (CMa)** Date \_\_\_\_\_ Time \_\_\_\_\_ Loc \_\_\_\_\_  
RA 07 16      S \_\_\_\_ T \_\_\_\_ Instrument \_\_\_\_\_  
Dec +20 34      Notes \_\_\_\_\_  
C 22; P 27 \_\_\_\_\_



**19 Lyn**      Date \_\_\_\_\_ Time \_\_\_\_\_ Loc \_\_\_\_\_  
RA 07 22      S \_\_\_\_ T \_\_\_\_ Instrument \_\_\_\_\_  
Dec +55 17      Notes \_\_\_\_\_  
C 3; P 23 \_\_\_\_\_





**RA 07-08**

**CDSA 8, 14, 15, 22**

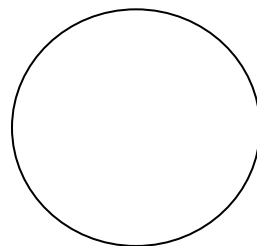
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**Eta CMa (Aludra)** Date \_\_\_\_\_ Time \_\_\_\_\_ Loc \_\_\_\_\_

RA 07 24 S \_\_\_\_ T \_\_\_\_ Instrument \_\_\_\_\_

Dec -29 18 Notes \_\_\_\_\_

C 22; P 27, 29 \_\_\_\_\_

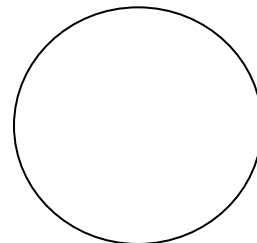


**$\Delta$  47 (CMa)** Date \_\_\_\_\_ Time \_\_\_\_\_ Loc \_\_\_\_\_

RA 07 24 S \_\_\_\_ T \_\_\_\_ Instrument \_\_\_\_\_

Dec -31 49 Notes \_\_\_\_\_

C 22; P 27, 29 \_\_\_\_\_

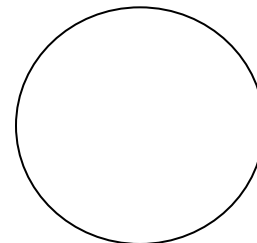


**64/65 Gem** Date \_\_\_\_\_ Time \_\_\_\_\_ Loc \_\_\_\_\_

RA 07 29 S \_\_\_\_ T \_\_\_\_ Instrument \_\_\_\_\_

Dec +28 07 Notes \_\_\_\_\_

C 8; P 23, 25 \_\_\_\_\_

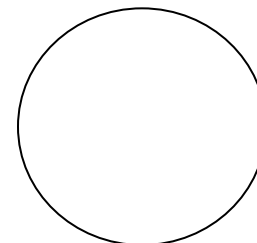


**Knt 4 (Pup)** Date \_\_\_\_\_ Time \_\_\_\_\_ Loc \_\_\_\_\_

RA 07 47 S \_\_\_\_ T \_\_\_\_ Instrument \_\_\_\_\_

Dec -16 01 Notes \_\_\_\_\_

C 14, 15, 22; P 26 \_\_\_\_\_

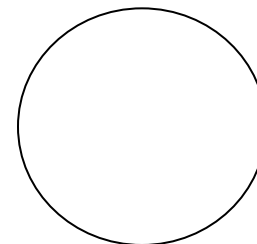


**14 CMi** Date \_\_\_\_\_ Time \_\_\_\_\_ Loc \_\_\_\_\_

RA 07 58 S \_\_\_\_ T \_\_\_\_ Instrument \_\_\_\_\_

Dec +02 13 Notes \_\_\_\_\_

C 14, 15; P24, 26 \_\_\_\_\_

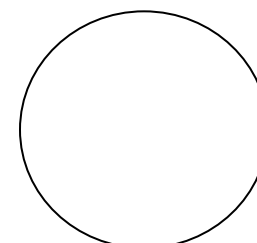


**F Hyd** Date \_\_\_\_\_ Time \_\_\_\_\_ Loc \_\_\_\_\_

RA 08 43 S \_\_\_\_ T \_\_\_\_ Instrument \_\_\_\_\_

Dec -07 14 Notes \_\_\_\_\_

C 15; P 26 \_\_\_\_\_

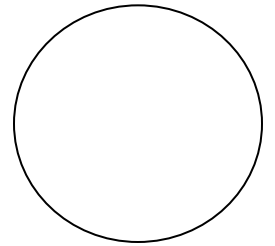


**RA 08-10**

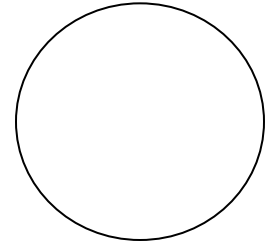
**CDSA 8, 9, 15, 16, 23**

**PSA 22, 24, 26, 33-37**

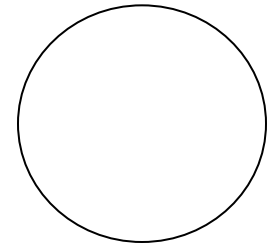
**Iota Cnc** Date \_\_\_\_\_ Time \_\_\_\_\_ Loc \_\_\_\_\_  
RA 08 46 S \_\_\_\_ T \_\_\_\_ Instrument \_\_\_\_\_  
Dec +28 46 Notes \_\_\_\_\_  
C 8; P 22, 24 \_\_\_\_\_



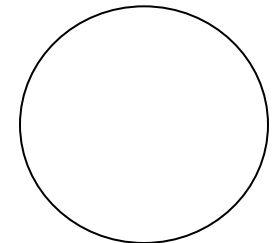
**27 Hyd** Date \_\_\_\_\_ Time \_\_\_\_\_ Loc \_\_\_\_\_  
RA 09 20 S \_\_\_\_ T \_\_\_\_ Instrument \_\_\_\_\_  
Dec -09 33 Notes \_\_\_\_\_  
C 15; P 26, 37 \_\_\_\_\_



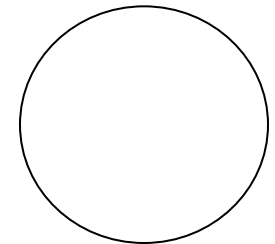
**Tau 1 Hyd** Date \_\_\_\_\_ Time \_\_\_\_\_ Loc \_\_\_\_\_  
RA 09 29 S \_\_\_\_ T \_\_\_\_ Instrument \_\_\_\_\_  
Dec -02 46 Notes \_\_\_\_\_  
C 15; P 37 \_\_\_\_\_



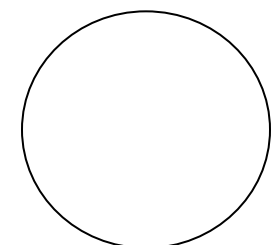
**35/36 (Zeta) Leo (Adhafera)** Date \_\_\_\_\_ Time \_\_\_\_\_ Loc \_\_\_\_\_  
RA 10 16 S \_\_\_\_ T \_\_\_\_ Instrument \_\_\_\_\_  
Dec +23 25 Notes \_\_\_\_\_  
C 9; P 35 \_\_\_\_\_



**42 LMi** Date \_\_\_\_\_ Time \_\_\_\_\_ Loc \_\_\_\_\_  
RA 10 45 S \_\_\_\_ T \_\_\_\_ Instrument \_\_\_\_\_  
Dec +30 41 Notes \_\_\_\_\_  
C 9; P 33, 34 \_\_\_\_\_



**Σ1474 (Hyd)** Date \_\_\_\_\_ Time \_\_\_\_\_ Loc \_\_\_\_\_  
RA 10 47 S \_\_\_\_ T \_\_\_\_ Instrument \_\_\_\_\_  
Dec -15 16 Notes \_\_\_\_\_  
C 15, 16, 23; P 36 \_\_\_\_\_



RA 11

CDSA 3, 4, 9, 16

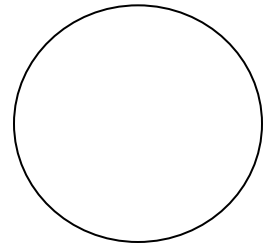
PSA 31-34, 36, 43, 45

**Alpha Uma (Dubhe)** Date \_\_\_\_\_ Time \_\_\_\_\_ Loc \_\_\_\_\_

RA 11 02 S \_\_\_\_\_ T \_\_\_\_\_ Instrument \_\_\_\_\_

Dec +61 45 Notes \_\_\_\_\_

C 3, 4; P 31-33, 43 \_\_\_\_\_

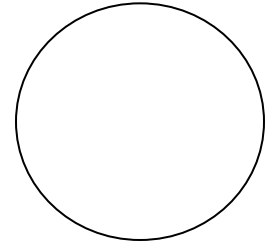


**Delta Leo (Zosma)** Date \_\_\_\_\_ Time \_\_\_\_\_ Loc \_\_\_\_\_

RA 11 14 S \_\_\_\_\_ T \_\_\_\_\_ Instrument \_\_\_\_\_

Dec +20 31 Notes \_\_\_\_\_

C 9, 16; P 34 \_\_\_\_\_

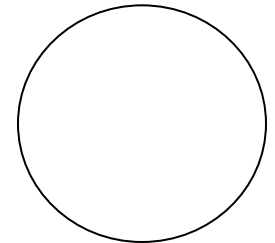


**83 Leo** Date \_\_\_\_\_ Time \_\_\_\_\_ Loc \_\_\_\_\_

RA 11 26 S \_\_\_\_\_ T \_\_\_\_\_ Instrument \_\_\_\_\_

Dec 00 03 Notes \_\_\_\_\_

C 16; P 34, 36 \_\_\_\_\_

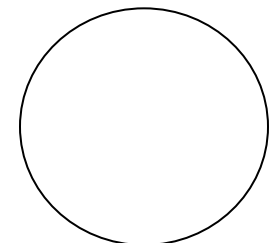


**Tau Leo** Date \_\_\_\_\_ Time \_\_\_\_\_ Loc \_\_\_\_\_

RA 11 27 S \_\_\_\_\_ T \_\_\_\_\_ Instrument \_\_\_\_\_

Dec +02 51 Notes \_\_\_\_\_

C 16; P 34, 36 \_\_\_\_\_

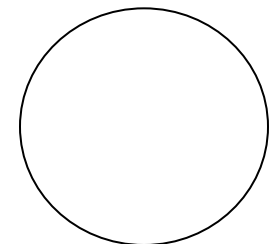


**93 Leo** Date \_\_\_\_\_ Time \_\_\_\_\_ Loc \_\_\_\_\_

RA 11 48 S \_\_\_\_\_ T \_\_\_\_\_ Instrument \_\_\_\_\_

Dec +20 13 Notes \_\_\_\_\_

C 9, 16; P 34, 45 \_\_\_\_\_

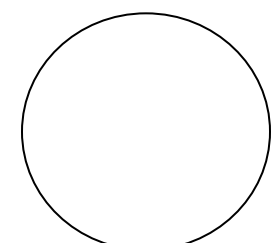


**65 UMa** Date \_\_\_\_\_ Time \_\_\_\_\_ Loc \_\_\_\_\_

RA 11 55 S \_\_\_\_\_ T \_\_\_\_\_ Instrument \_\_\_\_\_

Dec +46 29 Notes \_\_\_\_\_

C 4, 9; P 32, 43 \_\_\_\_\_

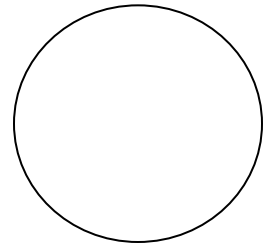


**RA 12-13**

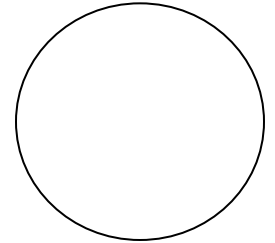
**CDSA 1, 4, 9, 16, 17**

**PSA 31, 32, 41, 43-45, 47**

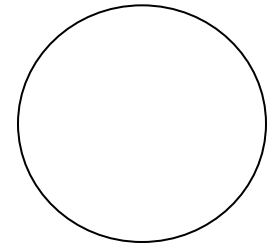
**67 UMa**     Date \_\_\_\_\_ Time \_\_\_\_\_ Loc \_\_\_\_\_  
RA 12 02     S \_\_\_\_ T \_\_\_\_ Instrument \_\_\_\_\_  
Dec +43 03     Notes \_\_\_\_\_  
C 4, 9; P 32, 43 \_\_\_\_\_



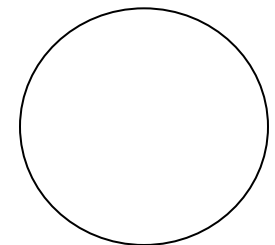
**12 Com**     Date \_\_\_\_\_ Time \_\_\_\_\_ Loc \_\_\_\_\_  
RA 12 22     S \_\_\_\_ T \_\_\_\_ Instrument \_\_\_\_\_  
Dec +25 51     Notes \_\_\_\_\_  
C 9; P 32, 43, 45 \_\_\_\_\_



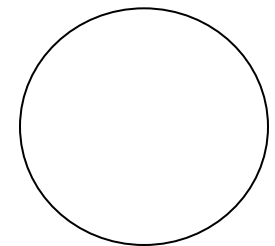
**17 Com**     Date \_\_\_\_\_ Time \_\_\_\_\_ Loc \_\_\_\_\_  
RA 12 28     S \_\_\_\_ T \_\_\_\_ Instrument \_\_\_\_\_  
Dec +25 55     Notes \_\_\_\_\_  
C 9; P 32, 43, 45 \_\_\_\_\_



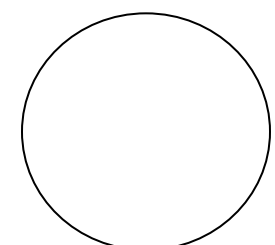
**K (5/6) Dra**     Date \_\_\_\_\_ Time \_\_\_\_\_ Loc \_\_\_\_\_  
RA 12 33     S \_\_\_\_ T \_\_\_\_ Instrument \_\_\_\_\_  
Dec +69 47     Notes \_\_\_\_\_  
C 4; P 31, 41 \_\_\_\_\_



**32 Cam**     Date \_\_\_\_\_ Time \_\_\_\_\_ Loc \_\_\_\_\_  
RA 12 49     S \_\_\_\_ T \_\_\_\_ Instrument \_\_\_\_\_  
Dec +83 25     Notes \_\_\_\_\_  
C 1; P 41 \_\_\_\_\_



**Σ1740 (Vir)**     Date \_\_\_\_\_ Time \_\_\_\_\_ Loc \_\_\_\_\_  
RA 13 23     S \_\_\_\_ T \_\_\_\_ Instrument \_\_\_\_\_  
Dec +02 43     Notes \_\_\_\_\_  
C 16, 17; P 44, 45, 47 \_\_\_\_\_



RA 13-15

CDSA 4, 9, 10, 16, 17, 24

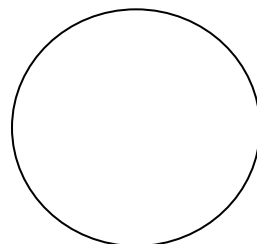
PSA 32, 42-44, 46, 53, 55, 57

**79/80 (ζ) Uma (Mizar & Alcor)** Date \_\_\_\_\_ Time \_\_\_\_\_ Loc \_\_\_\_\_

RA 13 23 S \_\_\_\_\_ T \_\_\_\_\_ Instrument \_\_\_\_\_

Dec +54 56 Notes \_\_\_\_\_

C 4; P 32, 43 \_\_\_\_\_

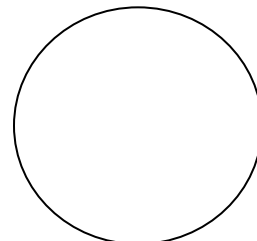


**70 Vir** Date \_\_\_\_\_ Time \_\_\_\_\_ Loc \_\_\_\_\_

RA 13 28 S \_\_\_\_\_ T \_\_\_\_\_ Instrument \_\_\_\_\_

Dec +13 47 Notes \_\_\_\_\_

C 9, 16, 17; P 44 \_\_\_\_\_

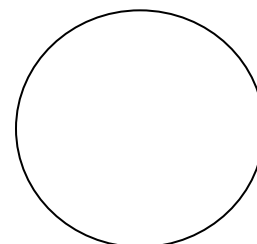


**Iota Boo** Date \_\_\_\_\_ Time \_\_\_\_\_ Loc \_\_\_\_\_

RA 14 16 S \_\_\_\_\_ T \_\_\_\_\_ Instrument \_\_\_\_\_

Dec +51 22 Notes \_\_\_\_\_

C 4; P 42 \_\_\_\_\_

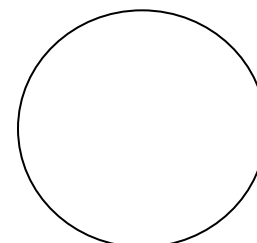


**Σ1850 (Boo)** Date \_\_\_\_\_ Time \_\_\_\_\_ Loc \_\_\_\_\_

RA 14 28 S \_\_\_\_\_ T \_\_\_\_\_ Instrument \_\_\_\_\_

Dec +28 17 Notes \_\_\_\_\_

C 10; P 44, 55 \_\_\_\_\_

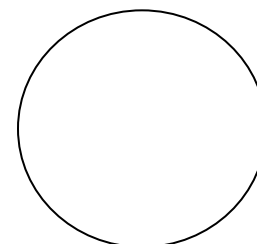


**Alpha Lib (Zubenelgenubi)** Date \_\_\_\_\_ Time \_\_\_\_\_ Loc \_\_\_\_\_

RA 14 50 S \_\_\_\_\_ T \_\_\_\_\_ Instrument \_\_\_\_\_

Dec -16 03 Notes \_\_\_\_\_

C 17, 24; P 46, 57 \_\_\_\_\_

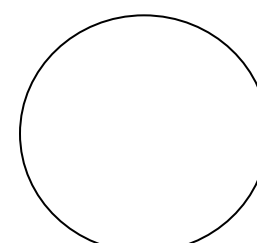


**Delta Boo** Date \_\_\_\_\_ Time \_\_\_\_\_ Loc \_\_\_\_\_

RA 15 15 S \_\_\_\_\_ T \_\_\_\_\_ Instrument \_\_\_\_\_

Dec +33 19 Notes \_\_\_\_\_

C 10; P 42, 53 \_\_\_\_\_

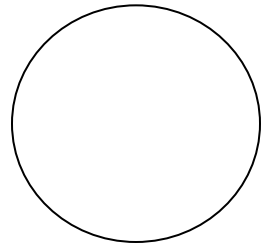


**RA 15-16****CDSA 10, 17, 18, 24****PSA 42, 52-56****Mu 1/2 Boo (Alkalurops)** Date \_\_\_\_\_ Time \_\_\_\_\_ Loc \_\_\_\_\_

RA 15 24 S \_\_\_\_\_ T \_\_\_\_\_ Instrument \_\_\_\_\_

Dec +37 23 Notes \_\_\_\_\_

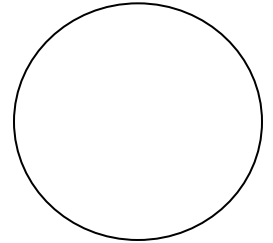
C 10; P 42, 53 \_\_\_\_\_

**ω 1/2 Sco** Date \_\_\_\_\_ Time \_\_\_\_\_ Loc \_\_\_\_\_

RA 16 06 S \_\_\_\_\_ T \_\_\_\_\_ Instrument \_\_\_\_\_

Dec -20 40 Notes \_\_\_\_\_

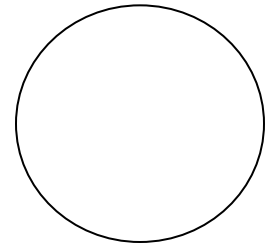
C 24; P 56 \_\_\_\_\_

**Kappa Her** Date \_\_\_\_\_ Time \_\_\_\_\_ Loc \_\_\_\_\_

RA 16 08 S \_\_\_\_\_ T \_\_\_\_\_ Instrument \_\_\_\_\_

Dec +17 03 Notes \_\_\_\_\_

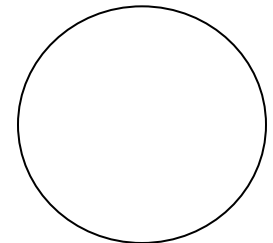
C 10, 17, 18; P 55 \_\_\_\_\_

**Nu Sco** Date \_\_\_\_\_ Time \_\_\_\_\_ Loc \_\_\_\_\_

RA 16 12 S \_\_\_\_\_ T \_\_\_\_\_ Instrument \_\_\_\_\_

Dec -19 27 Notes \_\_\_\_\_

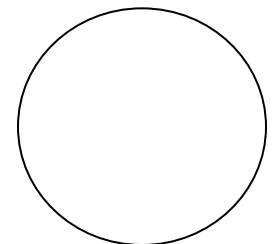
C 17, 18, 24; P 56 \_\_\_\_\_

**Nu 1/2 CrB** Date \_\_\_\_\_ Time \_\_\_\_\_ Loc \_\_\_\_\_

RA 16 22 S \_\_\_\_\_ T \_\_\_\_\_ Instrument \_\_\_\_\_

Dec +33 48 Notes \_\_\_\_\_

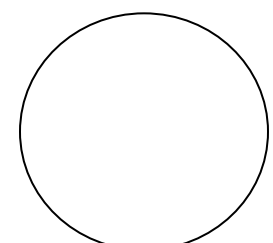
C 10; P 52, 54 \_\_\_\_\_

**Rho Oph** Date \_\_\_\_\_ Time \_\_\_\_\_ Loc \_\_\_\_\_

RA 16 25 S \_\_\_\_\_ T \_\_\_\_\_ Instrument \_\_\_\_\_

Dec -23 27 Notes \_\_\_\_\_

C 24; P 56 \_\_\_\_\_

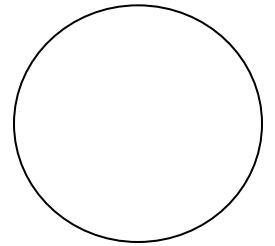


**RA 16-17**

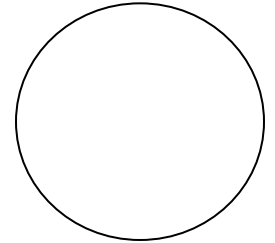
**CDSA 5, 10, 17, 18, 24**

**PSA 52, 54, 56, 58**

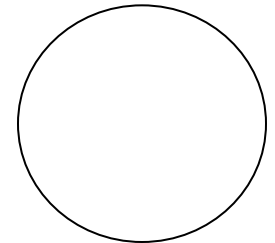
**16/17 Dra**    Date \_\_\_\_\_ Time \_\_\_\_\_ Loc \_\_\_\_\_  
RA 16 36    S \_\_\_\_ T \_\_\_\_ Instrument \_\_\_\_\_  
Dec +52 55    Notes \_\_\_\_\_  
C 5; P 52    \_\_\_\_\_



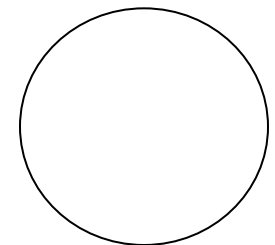
**36/37 Her**    Date \_\_\_\_\_ Time \_\_\_\_\_ Loc \_\_\_\_\_  
RA 16 40    S \_\_\_\_ T \_\_\_\_ Instrument \_\_\_\_\_  
Dec +04 13    Notes \_\_\_\_\_  
C 17, 18; P 54, 56    \_\_\_\_\_



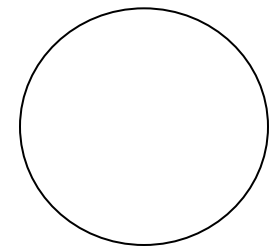
**Mu 1/2 Sco**    Date \_\_\_\_\_ Time \_\_\_\_\_ Loc \_\_\_\_\_  
RA 16 51    S \_\_\_\_ T \_\_\_\_ Instrument \_\_\_\_\_  
Dec -38 03    Notes \_\_\_\_\_  
C 24; P 58    \_\_\_\_\_



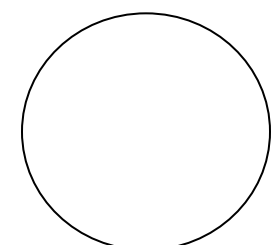
**Zeta 1/2 Sco**    Date \_\_\_\_\_ Time \_\_\_\_\_ Loc \_\_\_\_\_  
RA 16 54    S \_\_\_\_ T \_\_\_\_ Instrument \_\_\_\_\_  
Dec -42 21    Notes \_\_\_\_\_  
C 24; P 58    \_\_\_\_\_



**Σ133 (Her)**    Date \_\_\_\_\_ Time \_\_\_\_\_ Loc \_\_\_\_\_  
RA 17 03    S \_\_\_\_ T \_\_\_\_ Instrument \_\_\_\_\_  
Dec +13 36    Notes \_\_\_\_\_  
C 10, 18; P 54    \_\_\_\_\_



**36 Oph**    Date \_\_\_\_\_ Time \_\_\_\_\_ Loc \_\_\_\_\_  
RA 17 15    S \_\_\_\_ T \_\_\_\_ Instrument \_\_\_\_\_  
Dec -26 36    Notes \_\_\_\_\_  
C 24; P 56, 58    \_\_\_\_\_

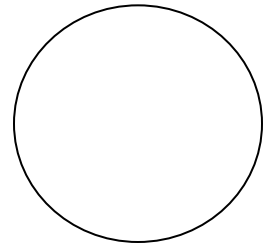


**RA 17-18**

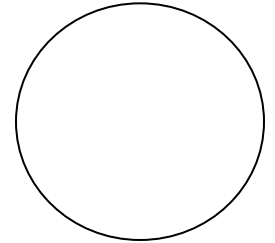
**CDSA 1, 5, 10, 18**

**PSA 51-52, 54, 56, 61, 63, 67**

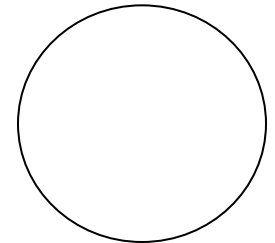
**Nu 1/2 Dra** Date \_\_\_\_\_ Time \_\_\_\_\_ Loc \_\_\_\_\_  
RA 17 32 S \_\_\_\_\_ T \_\_\_\_\_ Instrument \_\_\_\_\_  
Dec +55 11 Notes \_\_\_\_\_  
C 5; P 51-52, 63 \_\_\_\_\_



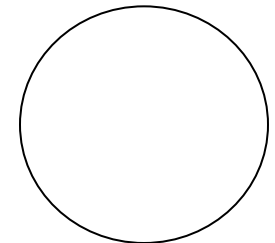
**53 Oph** Date \_\_\_\_\_ Time \_\_\_\_\_ Loc \_\_\_\_\_  
RA 17 34 S \_\_\_\_\_ T \_\_\_\_\_ Instrument \_\_\_\_\_  
Dec +09 35 Notes \_\_\_\_\_  
C 10, 18; P 54 \_\_\_\_\_



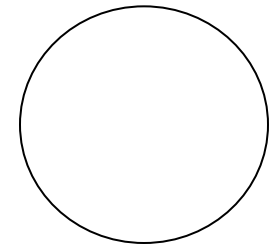
**Sh 251 (Oph)** Date \_\_\_\_\_ Time \_\_\_\_\_ Loc \_\_\_\_\_  
RA 17 39 S \_\_\_\_\_ T \_\_\_\_\_ Instrument \_\_\_\_\_  
Dec +02 02 Notes \_\_\_\_\_  
C 18; P 54, 56, 67 \_\_\_\_\_



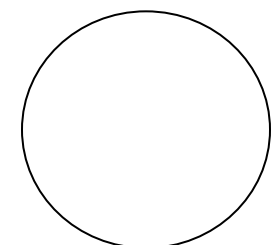
**Psi 1/2 Dra** Date \_\_\_\_\_ Time \_\_\_\_\_ Loc \_\_\_\_\_  
RA 17 41 S \_\_\_\_\_ T \_\_\_\_\_ Instrument \_\_\_\_\_  
Dec +72 09 Notes \_\_\_\_\_  
C 1, 5; P 51, 61 \_\_\_\_\_



**$\Sigma$ 2273 (Dra)** Date \_\_\_\_\_ Time \_\_\_\_\_ Loc \_\_\_\_\_  
RA 17 59 S \_\_\_\_\_ T \_\_\_\_\_ Instrument \_\_\_\_\_  
Dec +64 09 Notes \_\_\_\_\_  
C 1, 5; P 51, 61 \_\_\_\_\_



**40/41 Dra** Date \_\_\_\_\_ Time \_\_\_\_\_ Loc \_\_\_\_\_  
RA 18 00 S \_\_\_\_\_ T \_\_\_\_\_ Instrument \_\_\_\_\_  
Dec +80 00 Notes \_\_\_\_\_  
C 1, 5; P 51, 61 \_\_\_\_\_



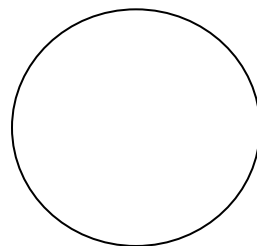


RA 18

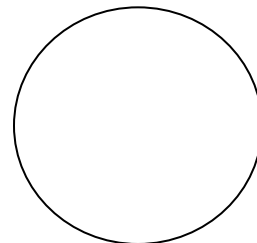
CDSA 5, 11, 18

PSA 52, 61, 63, 65, 67

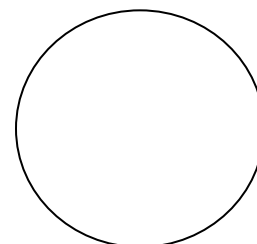
**67 Oph**      Date \_\_\_\_\_ Time \_\_\_\_\_ Loc \_\_\_\_\_  
RA 18 00      S \_\_\_\_ T \_\_\_\_ Instrument \_\_\_\_\_  
Dec +02 56      Notes \_\_\_\_\_  
C 18; P 65, 67 \_\_\_\_\_



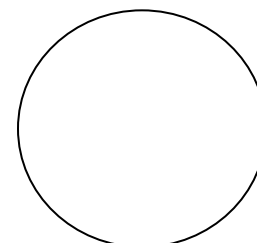
**39 Dra**      Date \_\_\_\_\_ Time \_\_\_\_\_ Loc \_\_\_\_\_  
RA 18 23      S \_\_\_\_ T \_\_\_\_ Instrument \_\_\_\_\_  
Dec +58 48      Notes \_\_\_\_\_  
C 5; P 52, 61, 63 \_\_\_\_\_



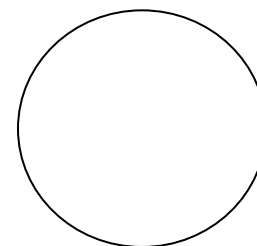
**Epsilon Lyr**      Date \_\_\_\_\_ Time \_\_\_\_\_ Loc \_\_\_\_\_  
RA 18 44      S \_\_\_\_ T \_\_\_\_ Instrument \_\_\_\_\_  
Dec +39 40      Notes \_\_\_\_\_  
C 11; P 63 \_\_\_\_\_



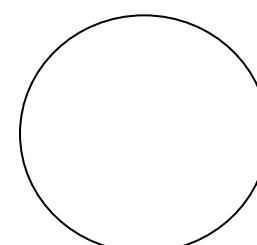
**Zeta Lyr**      Date \_\_\_\_\_ Time \_\_\_\_\_ Loc \_\_\_\_\_  
RA 18 44      S \_\_\_\_ T \_\_\_\_ Instrument \_\_\_\_\_  
Dec +37 36      Notes \_\_\_\_\_  
C 11; P 63 \_\_\_\_\_



**Beta Lyr (Sheliak)**      Date \_\_\_\_\_ Time \_\_\_\_\_ Loc \_\_\_\_\_  
RA 18 50      S \_\_\_\_ T \_\_\_\_ Instrument \_\_\_\_\_  
Dec +33 22      Notes \_\_\_\_\_  
C 11; P 63, 65 \_\_\_\_\_



**Delta Lyr**      Date \_\_\_\_\_ Time \_\_\_\_\_ Loc \_\_\_\_\_  
RA 18 54      S \_\_\_\_ T \_\_\_\_ Instrument \_\_\_\_\_  
Dec +36 58      Notes \_\_\_\_\_  
C 11; P 63 \_\_\_\_\_



**RA 18-19**

**CDSA 11, 18, 19**

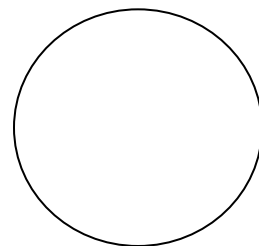
**PSA 62, 64-65, 67**

**Theta Ser (Alya)** Date \_\_\_\_\_ Time \_\_\_\_\_ Loc \_\_\_\_\_

RA 18 56 S \_\_\_\_ T \_\_\_\_ Instrument \_\_\_\_\_

Dec +04 12 Notes \_\_\_\_\_

C 18; P 65 \_\_\_\_\_

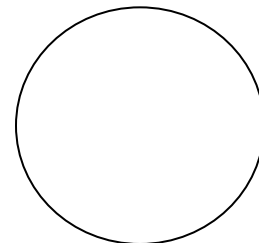


**15 Aql** Date \_\_\_\_\_ Time \_\_\_\_\_ Loc \_\_\_\_\_

RA 19 05 S \_\_\_\_ T \_\_\_\_ Instrument \_\_\_\_\_

Dec -04 02 Notes \_\_\_\_\_

C 18, 19; P 65, 67 \_\_\_\_\_

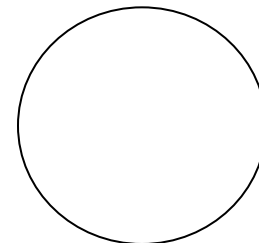


**OΣΣ178 (Aql)** Date \_\_\_\_\_ Time \_\_\_\_\_ Loc \_\_\_\_\_

RA 19 15 S \_\_\_\_ T \_\_\_\_ Instrument \_\_\_\_\_

Dec +15 05 Notes \_\_\_\_\_

C 11, 18, 19; P 65 \_\_\_\_\_

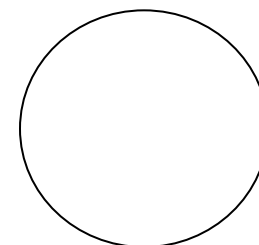


**28 Aql** Date \_\_\_\_\_ Time \_\_\_\_\_ Loc \_\_\_\_\_

RA 19 19 S \_\_\_\_ T \_\_\_\_ Instrument \_\_\_\_\_

Dec +12 22 Notes \_\_\_\_\_

C 11, 18, 19; P 65 \_\_\_\_\_

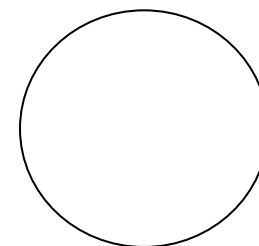


**Alpha 6/8 Vul** Date \_\_\_\_\_ Time \_\_\_\_\_ Loc \_\_\_\_\_

RA 19 28 S \_\_\_\_ T \_\_\_\_ Instrument \_\_\_\_\_

Dec +24 40 Notes \_\_\_\_\_

C 11; P 62, 64 \_\_\_\_\_

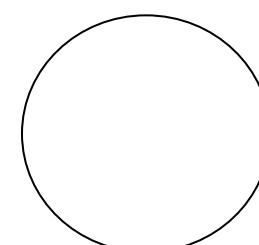


**Beta Cyg (Albireo)** Date \_\_\_\_\_ Time \_\_\_\_\_ Loc \_\_\_\_\_

RA 19 30 S \_\_\_\_ T \_\_\_\_ Instrument \_\_\_\_\_

Dec +27 58 Notes \_\_\_\_\_

C 11; P 62, 64 \_\_\_\_\_

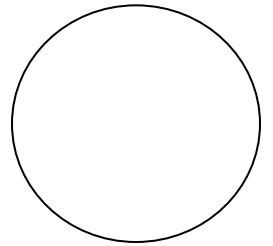


**RA 19-20**

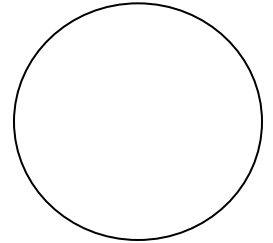
**CDSA 5, 11, 18-19, 25**

**PSA 62, 64, 66**

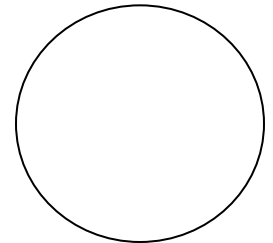
**Epsilon Sge** Date \_\_\_\_\_ Time \_\_\_\_\_ Loc \_\_\_\_\_  
RA 19 37 S \_\_\_\_ T \_\_\_\_ Instrument \_\_\_\_\_  
Dec +16 28 Notes \_\_\_\_\_  
C 11, 18, 19; P 64 \_\_\_\_\_



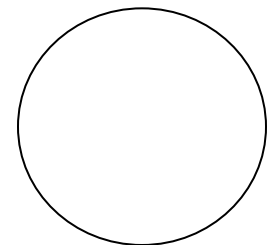
**54 Sgr** Date \_\_\_\_\_ Time \_\_\_\_\_ Loc \_\_\_\_\_  
RA 19 40 S \_\_\_\_ T \_\_\_\_ Instrument \_\_\_\_\_  
Dec -16 18 Notes \_\_\_\_\_  
C 18, 19, 25; P 66 \_\_\_\_\_



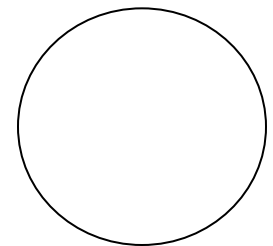
**16 Cyg** Date \_\_\_\_\_ Time \_\_\_\_\_ Loc \_\_\_\_\_  
RA 19 41 S \_\_\_\_ T \_\_\_\_ Instrument \_\_\_\_\_  
Dec +50 32 Notes \_\_\_\_\_  
C 5, 11; P 62, 64 \_\_\_\_\_



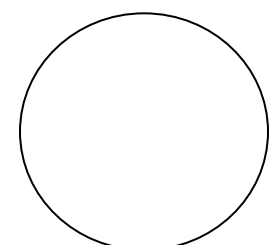
**57 Aql** Date \_\_\_\_\_ Time \_\_\_\_\_ Loc \_\_\_\_\_  
RA 19 54 S \_\_\_\_ T \_\_\_\_ Instrument \_\_\_\_\_  
Dec -08 14 Notes \_\_\_\_\_  
C 18, 19; P 66 \_\_\_\_\_



**15 Sge** Date \_\_\_\_\_ Time \_\_\_\_\_ Loc \_\_\_\_\_  
RA 20 04 S \_\_\_\_ T \_\_\_\_ Instrument \_\_\_\_\_  
Dec +17 04 Notes \_\_\_\_\_  
C 11, 19; P 64 \_\_\_\_\_



**Theta Sge** Date \_\_\_\_\_ Time \_\_\_\_\_ Loc \_\_\_\_\_  
RA 20 09 S \_\_\_\_ T \_\_\_\_ Instrument \_\_\_\_\_  
Dec +20 55 Notes \_\_\_\_\_  
C 11; P 64 \_\_\_\_\_

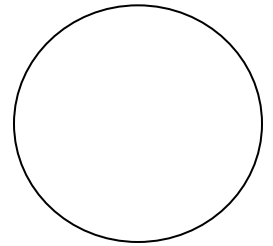


**RA 20**

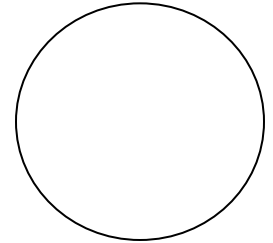
**CDSA 1, 5, 11, 19, 25**

**PSA 61-62, 66, 71, 73**

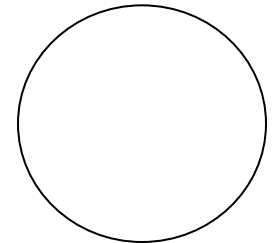
**30/31 (O1) Cyg** Date \_\_\_\_\_ Time \_\_\_\_\_ Loc \_\_\_\_\_  
RA 20 13 S \_\_\_\_\_ T \_\_\_\_\_ Instrument \_\_\_\_\_  
Dec +46 44 Notes \_\_\_\_\_  
C 5, 11; P 62, 73 \_\_\_\_\_



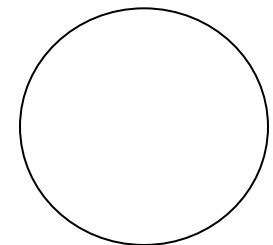
**29 Cyg** Date \_\_\_\_\_ Time \_\_\_\_\_ Loc \_\_\_\_\_  
RA 20 14 S \_\_\_\_\_ T \_\_\_\_\_ Instrument \_\_\_\_\_  
Dec +36 48 Notes \_\_\_\_\_  
C 11; P 62, 73 \_\_\_\_\_



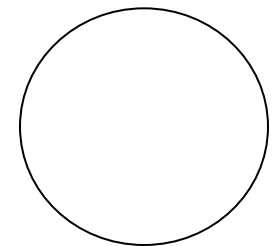
**Alpha Cap (Algedi)** Date \_\_\_\_\_ Time \_\_\_\_\_ Loc \_\_\_\_\_  
RA 20 18 S \_\_\_\_\_ T \_\_\_\_\_ Instrument \_\_\_\_\_  
Dec -12 33 Notes \_\_\_\_\_  
C 19, 25; P 66 \_\_\_\_\_



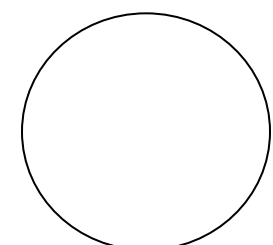
**Beta Cap (Dabhi)** Date \_\_\_\_\_ Time \_\_\_\_\_ Loc \_\_\_\_\_  
RA 20 21 S \_\_\_\_\_ T \_\_\_\_\_ Instrument \_\_\_\_\_  
Dec -14 47 Notes \_\_\_\_\_  
C 19, 25; P 66 \_\_\_\_\_



**75 Dra** Date \_\_\_\_\_ Time \_\_\_\_\_ Loc \_\_\_\_\_  
RA 20 28 S \_\_\_\_\_ T \_\_\_\_\_ Instrument \_\_\_\_\_  
Dec +81 25 Notes \_\_\_\_\_  
C 1; P 61, 71 \_\_\_\_\_



**Rho Cap** Date \_\_\_\_\_ Time \_\_\_\_\_ Loc \_\_\_\_\_  
RA 20 28 S \_\_\_\_\_ T \_\_\_\_\_ Instrument \_\_\_\_\_  
Dec -17 49 Notes \_\_\_\_\_  
C 19, 25; P 66 \_\_\_\_\_

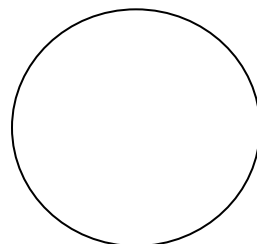


**RA 20-21**

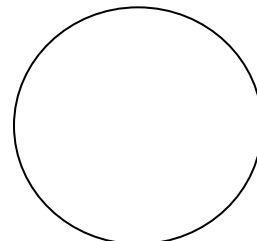
**CDSA 6, 11, 19, 25**

**PSA 62, 64, 66, 73, 75**

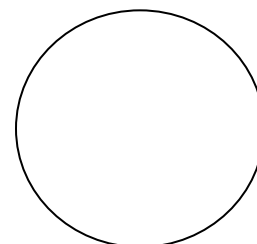
**Omicron Cap** Date \_\_\_\_\_ Time \_\_\_\_\_ Loc \_\_\_\_\_  
RA 20 29 S \_\_\_\_ T \_\_\_\_ Instrument \_\_\_\_\_  
Dec -18 35 Notes \_\_\_\_\_  
C 19, 25; P 66 \_\_\_\_\_



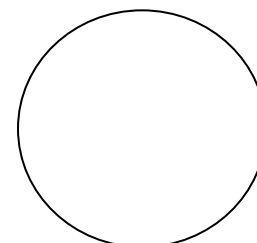
**S 752 (Del)** Date \_\_\_\_\_ Time \_\_\_\_\_ Loc \_\_\_\_\_  
RA 20 30 S \_\_\_\_ T \_\_\_\_ Instrument \_\_\_\_\_  
Dec +19 25 Notes \_\_\_\_\_  
C 11, 19; P 62, 64 \_\_\_\_\_



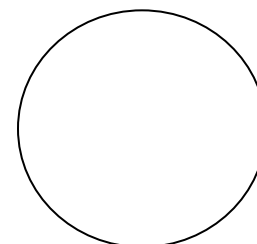
**48 Cyg** Date \_\_\_\_\_ Time \_\_\_\_\_ Loc \_\_\_\_\_  
RA 20 37 S \_\_\_\_ T \_\_\_\_ Instrument \_\_\_\_\_  
Dec +31 34 Notes \_\_\_\_\_  
C 11; P 62, 64, 73 \_\_\_\_\_



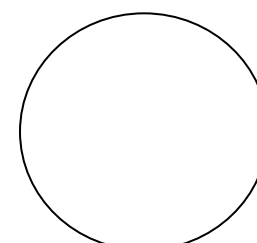
**61 Cyg (Piazzi's Flying Star)** Date \_\_\_\_\_ Time \_\_\_\_\_ Loc \_\_\_\_\_  
RA 21 06 S \_\_\_\_ T \_\_\_\_ Instrument \_\_\_\_\_  
Dec +38 44 Notes \_\_\_\_\_  
C 11; P 62, 73 \_\_\_\_\_



**5 & 6 Equ** Date \_\_\_\_\_ Time \_\_\_\_\_ Loc \_\_\_\_\_  
RA 21 20 S \_\_\_\_ T \_\_\_\_ Instrument \_\_\_\_\_  
Dec +10 08 Notes \_\_\_\_\_  
C 11, 19; P 75 \_\_\_\_\_



**79 Cyg** Date \_\_\_\_\_ Time \_\_\_\_\_ Loc \_\_\_\_\_  
RA 21 43 S \_\_\_\_ T \_\_\_\_ Instrument \_\_\_\_\_  
Dec +38 17 Notes \_\_\_\_\_  
C 6, 11; P 62, 73 \_\_\_\_\_

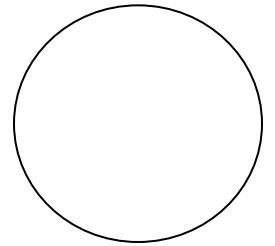


**RA 21-22**

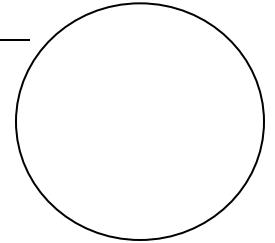
**CDSA 2, 6, 11, 12, 19**

**PSA 3, 71-73, 75-77**

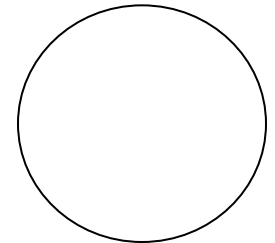
**Mu Cyg**     Date \_\_\_\_\_ Time \_\_\_\_\_ Loc \_\_\_\_\_  
RA 21 44     S \_\_\_\_ T \_\_\_\_ Instrument \_\_\_\_\_  
Dec +28 45     Notes \_\_\_\_\_  
C 6, 11; P 73, 75 \_\_\_\_\_



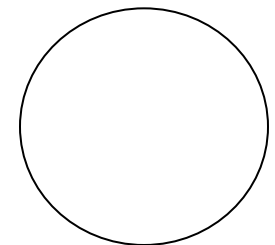
**Epsilon Peg (Enif)**     Date \_\_\_\_\_ Time \_\_\_\_\_ Loc \_\_\_\_\_  
RA 21 44     S \_\_\_\_ T \_\_\_\_ Instrument \_\_\_\_\_  
Dec +09 53     Notes \_\_\_\_\_  
C 11, 19; P 75 \_\_\_\_\_



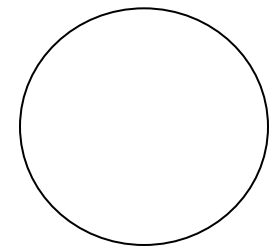
**Pi 1/2 Peg**     Date \_\_\_\_\_ Time \_\_\_\_\_ Loc \_\_\_\_\_  
RA 22 09     S \_\_\_\_ T \_\_\_\_ Instrument \_\_\_\_\_  
Dec +33 10     Notes \_\_\_\_\_  
C 6, 11; P 73, 75 \_\_\_\_\_



**33 Peg**     Date \_\_\_\_\_ Time \_\_\_\_\_ Loc \_\_\_\_\_  
RA 22 23     S \_\_\_\_ T \_\_\_\_ Instrument \_\_\_\_\_  
Dec +20 51     Notes \_\_\_\_\_  
C 6; P 75 \_\_\_\_\_



**35 Peg**     Date \_\_\_\_\_ Time \_\_\_\_\_ Loc \_\_\_\_\_  
RA 22 27     S \_\_\_\_ T \_\_\_\_ Instrument \_\_\_\_\_  
Dec +04 42     Notes \_\_\_\_\_  
C 12, 19; P 75-77 \_\_\_\_\_



**Delta Cep**     Date \_\_\_\_\_ Time \_\_\_\_\_ Loc \_\_\_\_\_  
RA 22 29     S \_\_\_\_ T \_\_\_\_ Instrument \_\_\_\_\_  
Dec +58 25     Notes \_\_\_\_\_  
C 2; P 3, 71-73 \_\_\_\_\_

