

## Some Targets for the LAAS Public Star Party on Saturday, October 12, 2013

Sunset at 6:23 p.m. PDT

At 7:00 p.m. PDT the Sidereal Time (Right Ascension at Griffith Observatory's Meridian) is 19 hrs. 34 mins.

### SHOWCASE OBJECTS

#### The Moon

8 days old (1<sup>st</sup> Quarter was at 4:02 p.m. PDT on October 11); in Capricornus, east of the Sagittarius "teapot"

**Prominent features near the terminator:** large crater Archimedes and the Apennine Mountains in the North;

3-crater chain Ptolemaeus, Alphonsus & Arzachel just south of the Equator; and crater Tycho in the South.

**Venus** In Scorpius, between Antares and Graffias.; low in the West at sunset, will set about 8:30 p.m. PDT

**Andromeda Galaxy (M31)**

### OTHER PLANETS

**Neptune:** in Aquarius; should be viewable after night-fall; its moon Triton is northeast of Neptune; 22:30.1 -11:06

**Uranus:** in Pisces; should be high enough in the South-East to be viewed by 8:00 p.m. PDT ; 00:36.3 +03:20

### MULTIPLE STARS

(SAO Numbers are included for use by computerized go-to mounts)

#### Prominent white doubles:

Epsilon ( $\epsilon$ ) 1 & 2 Lyr (the double-double; in Lyra; SAO # 067309 & 067315; 18:44.3 +39:40)

Theta ( $\theta$ ) Ser (in Serpens Cauda; SAO # 124068; 18:56.2 +04:12)

16 Cyg (in Cygnus; SAO # 031899; 19:41.8 +50:32)

57 Aql (in Aquila; SAO # 143898; 19:54.6 -08:14)

Zeta ( $\zeta$ ) Aqr (in Aquarius; SAO # 146107; 22:28.8 -00:01)

8 Lac (in Lacerta; SAO # 072508; 22:35.9 +39:38)

Eta ( $\eta$ ) Cas (in Cassiopeia; SAO # 021732; 00:49.1 +57:49; challenging magnitude differential)

#### Prominent doubles of various colors:

15 Aql (yellow & blue; in Aquila; SAO # 142996; 19:05.0 -04:02)

Albireo (Beta ( $\beta$ ) Cyg; orange & blue; in Cygnus; SAO # 087301; 19:30.7 +27:58)

Gamma ( $\gamma$ ) Del (orange & grey-green; in Delphinus; SAO # 106475; 20:46.7 +16:07)

Epsilon ( $\epsilon$ ) Equ (yellow & blue; in Equuleus; SAO # 126429; 20:59.1 +04:18; the primary is itself a tight double)

61 Cyg (two deep-yellow nearby stars; in Cygnus, SAO # 070919; 21:06.9 +38:45; Piazzzi's "flying star")

Delta ( $\delta$ ) Cep (orange & blue; in Cepheus; SAO # 034508; 22:29.2 +58:25; the original "cepheid variable")

#### Triple Stars

Struve 2816 (in Cepheus; SAO # 033626; 21:39.0 +57:29)

### PROMINENT OPEN CLUSTERS

**In binoculars or rich field telescopes:** "Coathanger" asterism (Cr 399 in Vulpecula; 19:26.2 + 20:06)

**In other telescopes:** M11 (the "wild duck cluster" in Scutum). M29 & M39 in Cygnus.

NGC 6940 in Vulpecula. NGC 7160 in Cepheus (looks like a fish swimming in a pond, viewed from above).

NGC 457 in Cassiopeia (the "flying owl" cluster)

### PROMINENT GLOBULAR CLUSTERS

M15 in Pegasus. M2 in Aquarius.

### RED CARBON STARS

(SAO Numbers are included for use by computerized go-to mounts)

T Lyr; (in Lyra; SAO # 067087; 18:32.3 +37:00; a variable star between mags. 7.5 and 9.0)

Compiled by Herbert Kraus