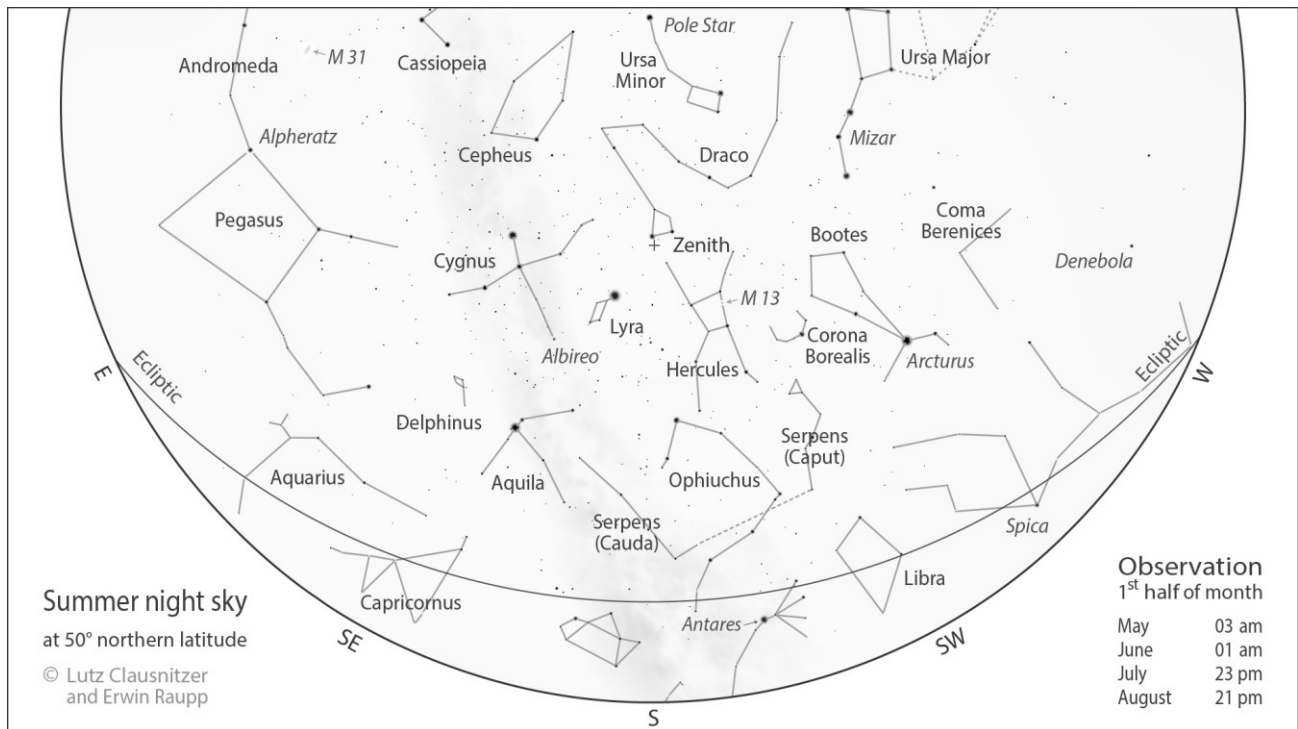


Problems to App “Audio Sky Tours”, Episode 3

The Summer Constellations



1. Draw the Summer Triangle into the chart and name its corner stars.
2. Because of the low lying ecliptic in the summer evening sky only a few zodiac constellations can be observed. However, with good seeing conditions some of them can be seen. Complete the missing names in the chart.
3. In episode 3 a harp is heard playing. Connect the harp playing to the summer sky stars and the term lyrics.
4. Why do stars have different colours?
5. What do you know about M13? Why astronomers considered as early as in 1974 that highly developed life might exist there? What did they do therefore?
6. In what way the constellation Serpens is a curiosity in the starry sky?
7. Though common stars are alike in their chemical composition and mainly consist of hydrogen and helium they can differ strongly in their physical properties or so called state quantities. Name three of them.
8. These state quantities are derived from the spectra of the stars. Especially to meet the analysis of the spectra a new part of astronomy arose in the second half of the 19th century important so far. How is the name of this part of astronomy?
9. Deneb has the 200,000 fold radiative power compared to the Sun. How does it manage this?
10. Only in the 1930ies researchers found out how stars meet their tremendous energy demand. What do they make use of?