АСТРОНОМИЧЕСКОЕ ОБЩЕСТВО
EURO–ASIAN ASTRONOMICAL SOCIETY

XVIII Международная астрономическая олимпиада
XVIII International Astronomy Olympiad
Литва, Вильнюс 6 – 14. IX. 2013 Vilnius, Lithuania

Round **Obs**

Group **α** **β**

язык / language **English**

Code of participant / код участника

Observational round. Questions. Clear sky

Observations by the naked eye

9. Find the object corresponding to the following criteria:
- The object is the second brightest star in its constellation.
- The object is visible approximately 28 degrees from α UMi.
- The equatorial coordinates of the object are: **RA 11^h, dec +62°**.

Answer the questions:

Answers:

a) What is the Bayer designation (e.g. β Ori) of the identified object?

b) Write the name of the constellation in Latin, which the object is visible in.

10. What is the angular distance between Vega (α Lyr) and Albireo (β Cyg)?

Answer:

11. a) Find the horizontal coordinates of Thuban (α Dra).

b) Find the zenith distance of Alcor (near ζ Ursae Majoris).

Answers:

Observations with telescope

12. There are 3 binary stars on the given sky chart: β Cyg, δ Lyr, and ε Lyr.
For each of the binaries do the following:
Point the telescope to the binary. Compare the star field seen in telescope's field of view with three star charts given on a separate sheet. Write down the designations of the binary stars in each blank box under appropriate star chart. Mark North direction on every star chart.

*The maximum total time for all tasks is **20 minutes**.*

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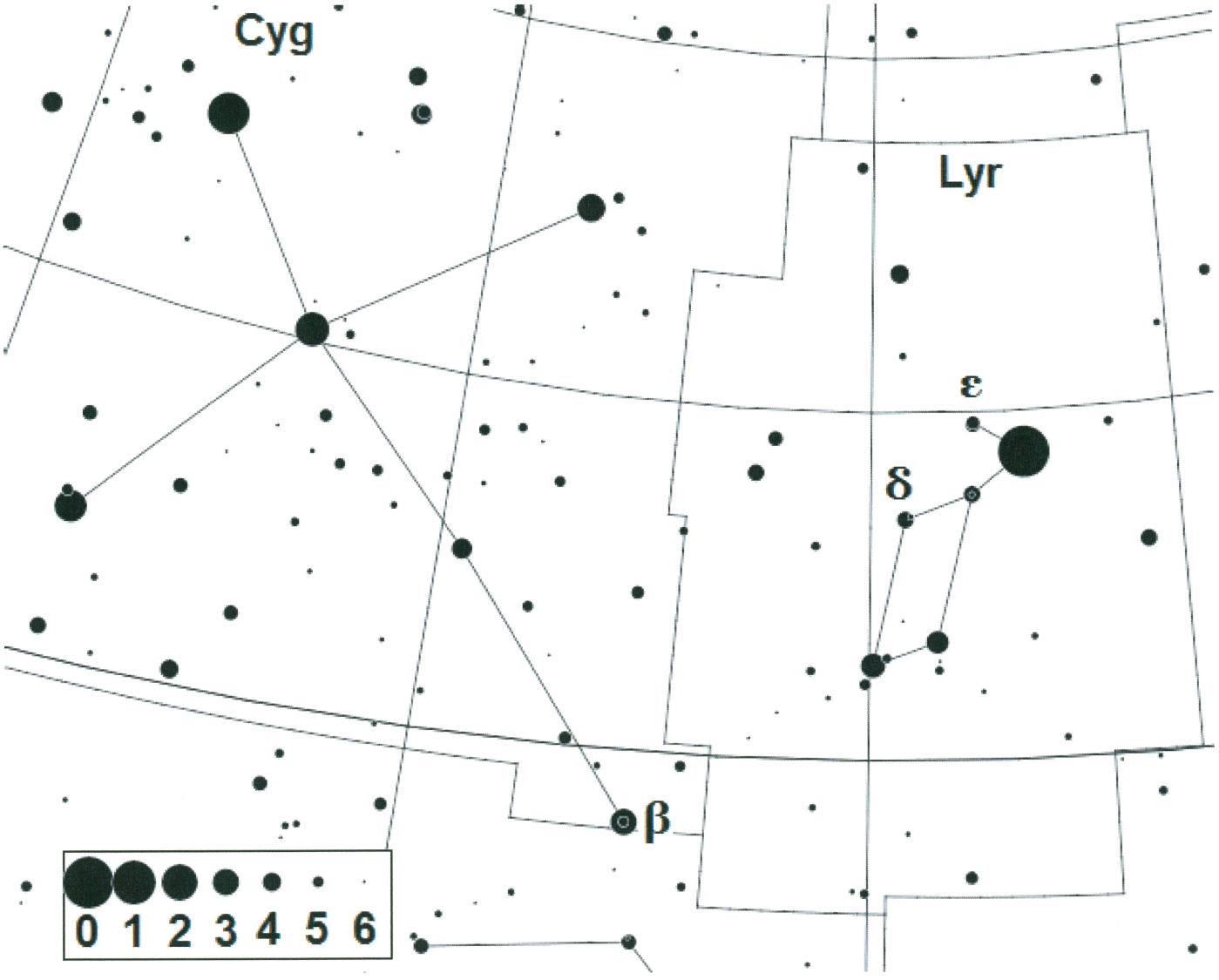
Наблюдательный тур. Чистое небо
Observational round. Clean sky



Round Obs

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Вопросы наблюдательного тура. Чистое небо
Observational round. Clean sky