

XI Азиатско-Тихоокеанская астрономическая олимпиада

XI Asian-Pacific Astronomy Olympiad

Бангладеш, Дакка 13–22. XI. 2015 Dhaka, Bangladesh

Round **Obs**

Group **αβ**

язык / language	***English***
язык / language	***Русский***

Observational round. Questions. Cloudy sky

You have a few minutes to read the questions indoor.

After coming to the observation place you should show by hand the answers to an examiner. 2 minutes will be done to answer every question.

11. **Circumpolar region.** Contour by your hand the circumpolar region (which never set) of the sky.

12. **Celestial equator.** Trace the line of celestial equator.

Note: all necessary information for these answers you have to know or to remember from previous experience.

Вопросы наблюдательного тура. Облачное небо

У Вас есть несколько минут прочитать задание в помещении.

Затем, уже на наблюдательной площадке Вам нужно будет продемонстрировать экзаменатору ответы на эти вопросы. По 2 минуты даётся для ответа на каждый вопрос.

11. **Незаходящая область.** Очертите рукой незаходящую область неба.

12. **Небесный экватор.** Проведите рукой по небу вдоль линии небесного экватора.

Примечание: всю необходимую информацию для ответов на эти вопросы Вы должны знать или вспомнить.



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Observational round. Questions
Clear sky

Code of participant	код участника

During the tour you will approach to the examiner with "examination cards". You will take randomly one examination card and show by hand the answers for questions of the problem 13 to the examiner. Be ready to answer. Other time is given for solution of the problem 14.

13. Directions and objects. Show by hand the directions and objects included in the examination card. You should show the directions to the objects in any case, even when they are located below the horizon or hidden from the observer by buildings, trees, etc.

***1/3 of a minute** is done to show each object or direction.*

14. The Moon. Determine for the time of the middle of the round and write down in the right column:

14.1. Astronomical azimuth of the moon (assume the 0° azimuth corresponds to South direction, and the counting is clockwise).	
14.2. The height of the Moon above the horizon.	
14.3. Phase of the Moon (write a digit of number of days).	
14.4. Constellation(s) in which the Moon is located (write the standard three-letter designation).	
14.5. The angular distance between the Moon and Polaris	
14.6. Declination of the zenith point.	

*The maximum total time for all tasks is **35 minutes**.*

1. **North-West** direction
2. **Deneb** (α Cyg)
3. **Aldebaran** (α Tau)
4. **Sirius** (α CMa)

1. Направление на **северо-запад**
2. **Денеб** (α Cyg)
3. **Альдебаран** (α Tau)
4. **Сириус** (α CMa)