УТВЕРЖДЕНО

Решение заседания кафедры

общего землеведения и гидрометеорологии

21 ноября 2024 г., № 4

Теоретические вопросы для проведения экзамена

по учебной дисциплине«Climate Risks and Adaptation to Climate Change» /

Климатические риски и адаптация к изменению климата

(магистратура, иностранные студенты)

Форма проведения – тестирование

1. Global and regional climate.
2. Influence of the ocean on climate.
3. Fundamentals of the formation and fluctuations of the planet’s climate.
4. Greenhouse effect in climate change.
5. Physic-mathematical and statistical climate models.
6. Climate services and climate risk management.
7. Climate risk analysis. Complex risks.
8. Climate risks caused by natural and anthropogenic hazards.
9. Adaptation to climate change.
10. Main climatic indicators.
11. Sources of climate information.
12. Concept of meteorological time-series.
13. Types of climate indicators.
14. Climatic indicators of individual meteorological elements and phenomena.
15. Comprehensive climate indicators.
16. Distribution of meteorological elements
17. Indicators of the temporal structure of meteorological time-series
18. Selection of distribution intervals.
19. Requirements for choosing the averaging period.
20. Accuracy of climate indicators.
21. Distribution curves of meteorological elements.
22. Identifying observation errors.
23. Identification of time-series heterogeneity.
24. Reducing series to one period.
25. Climatological databases.
26. Processing of surface meteorological observations.
27. Indirect methods for calculating climate indicators
28. The feasibility of indirect methods.
29. Complex climate indicators.
30. Climatic indicators of the temporal structure of meteorological elements.
31. Methods for averaging climatic characteristics over region.
32. Basic approaches to climate indices mapping.
33. Climate extremes indicators.
34. Indices to compare climate of different regions.

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