

**DYNAMICS OF DIVERSITY AND PRODUCTIVITY
OF ALAS REAL MEADOWS IN CENTRAL YAKUTIA**

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SUMMARY

The present paper is the continuation of a series of publications on characteristic of vegetation fluctuations inside alas depressions in Central Yakutia. The purpose of the study was the analysis of diversity and productivity dynamics of meadows in alas mesophytic habitats in a long-term period.

This study was carried out 1988—2012 in model sites of alas real meadow belt, where plant communities are formed on normal humidified alas sod-meadow saline soils. The method of model sites and Braun-Blanquet scale of abundance was used for research of diversity and productivity of alas real meadow. Descriptions were done within the area of 5 m². Value of grass vegetation above-ground biomass was estimated by the method of control sites inside 1 m² in 4-replications in air-dry condition.

The following features of diversity and of productivity dynamics of real meadows were revealed:

- 1) under the influence of natural weather fluctuations the area of the real meadows has significant dynamics each year, the area fluctuations ranged 13 times during observation period;
- 2) the plant species composition of the real meadows is not permanent, interannual Jackard index of floristic similarity varies from 0.36 to 1.0;
- 3) productivity of meadows has the big interannual fluctuations and varies from 1.32 to 39.5 c/ha, but, in a whole, tends to increase.

Key words: diversity, productivity, real meadows, alas, Central Yakutia.