

Informatika i sistemy upravleniya. – 2021. – No. 1(67). – P. 19-30.

Abakumov A.I. (abakumov@dvo.ru), **Pak S.Ya.**
Institute of Automation and Control Processes

MODEL ESTIMATIONS OF CHLOROPHYLL SHARE IN PHYTOPLANKTON

The article proposes and examines a dynamic model of phytoplankton biomass. The amount of chlorophyll content in phytoplankton changes in response to environmental situation. The model takes into account the dependence of biomass growth on environmental conditions, as well as the parameters phytoplankton photosynthetic activity.

Keywords: mathematical model, photosynthesis, chlorophyll, reaction center, effective absorption cross section, irradiance.

DOI: 10.22250/isu.2021.67.19-30

For citation:

Abakumov A.I., Pak S.Ya. MODEL ESTIMATIONS OF CHLOROPHYLL SHARE IN PHYTOPLANKTON // *Informatika i sistemy upravleniya.* – 2021. – No. 1(67). – P. 19-30.