

ОЦЕНКА И МОДЕЛИРОВАНИЕ ДИНАМИКИ ЭКОЛОГИЧЕСКОЙ СТРУКТУРЫ ПОЙМЕННЫХ БИОЦЕНОЗОВ ПЛАНКТОННЫХ ЖИВОТНЫХ

Болотов С.Э.
alhimikhmu@yandex.ru

Приведены данные по оценке и математическому моделированию динамики экологической структуры сообщества зоопланктона поймы Средней Оби.

Показано, что сообщества зоопланктона сложены умеренно разнообразным видовым комплексом. Динамика количественного развития характеризовалась пиками обилия в максимальные уровни затопления поймы.

Выяснено, что увеличение водонаполненности поймы приводит к подавлению трофической активности и ухудшению санитарных условий планктонных сообществ, а также нарастанию биоценологического стресса.

Реализована численная модель, качественно и количественно адекватно описывающая комплекс параметров функциональной организации пойменных зоопланктоценозов.

Введение

Экологической особенностью пойменных экосистем является определяющее воздействие режима половодий в формировании динамики структурного устройства и функциональных проявлений основных элементов биоты.

К важному структурообразующему компоненту пойменных экосистем относится зоопланктон [Киселев, 1980], который играет значительную роль в процессах трансформации органического вещества в водоемах [Мануйлова, 1964; Веснина с соавт., 1999; Алымов, 2001], служит кормовой базой молоди рыб и планктофагов, а также может являться тонким инструментом интегральной диагностики фазового состояния и генеральных линий динамики поймы.

Целью настоящей работы является характеристика и математическое моделирование динамики экологической структуры сообществ планктонных животных поймы средней Оби.

В соответствии с данной целью в настоящей работе решался следующий комплекс задач:

- Описать фауну и элементы временной и пространственно-биотопической динамики структурной организации исследованных зоопланктоценозов;
- Проанализировать трофическую структуру изученных биоценозов планктонных животных;
- Оценить стратегии эколого-функциональной адаптации зоопланктоценозов к режиму затопления;

Modelirovanie Sotsialnopoliticheskoi I Ekonomicheskoi Dinamiki

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