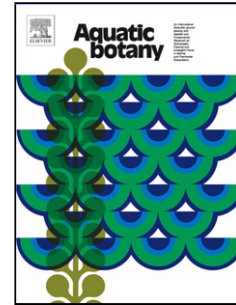


## Accepted Manuscript

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## A semi-empirical model of the aquatic plants seasonal dynamics and its application for management of perennial macrophytes

### Author

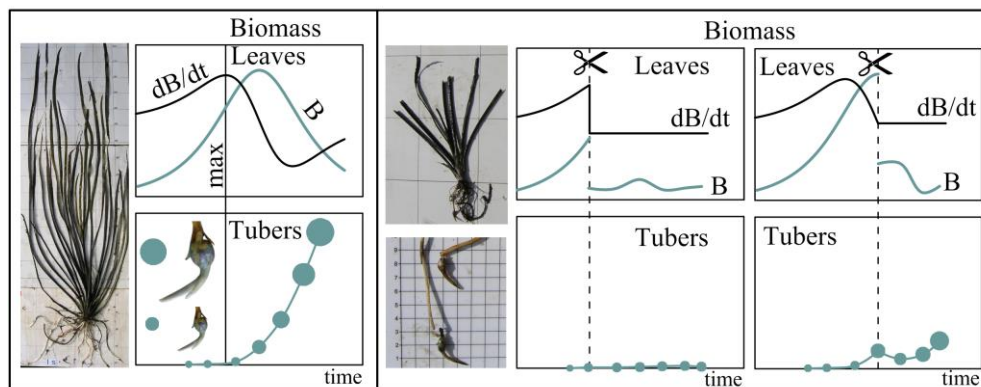
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### Graphical abstract



### Highlights:

- proposed function fits well biomass growth and growth rate in aquatic plants;
- maximum in biomass growth rate corresponds to the start of biomass allocation;
- biomass allocation pattern can be strongly affected by mechanical harvesting;
- most effective cutting matches the peak in the biomass growth rate;

### Abstract

This study proposes a simple yet practical semi-empirical approach for theory-guided fitting of biomass growth curves and prediction of biomass growth rate in aquatic plants. The model is based on

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