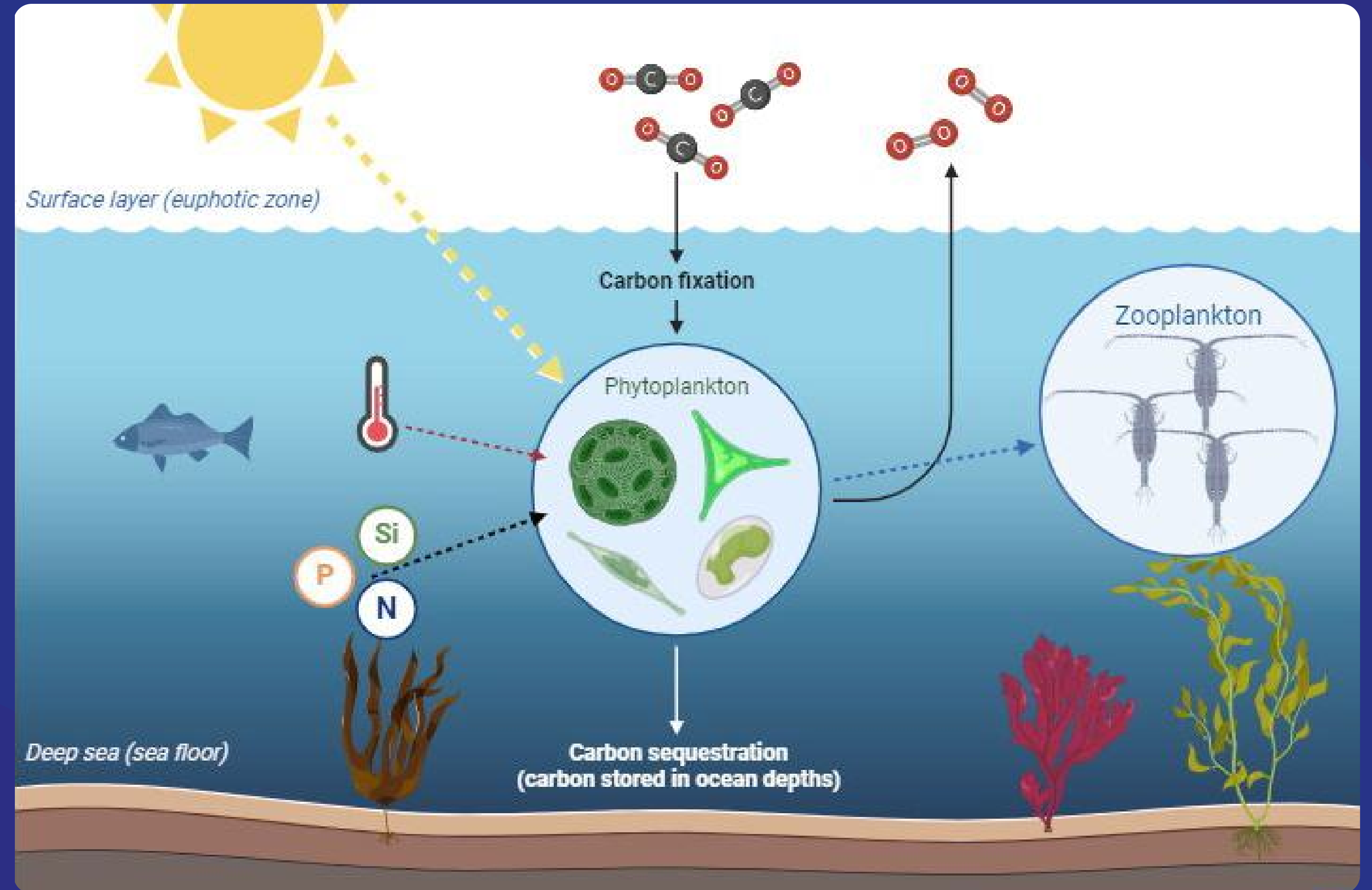


### INTRODUCTION

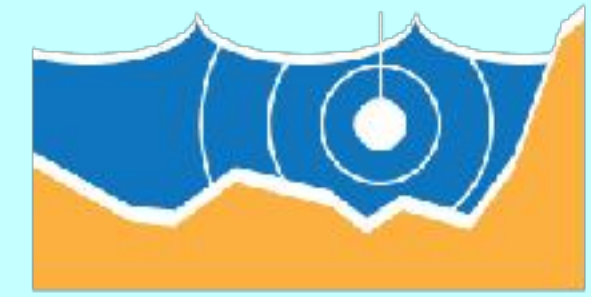
This VLab provides a service to analyze the relative contribution of the drivers in phytoplankton dynamics in the Belgium part of the North Sea and the northern Adriatic Sea. The Nutrient-Phytoplankton-Zooplankton-Detritus (NPZD) model is built using data containing phytoplankton and zooplankton abundances, nutrients (nitrogen, silica and phosphorus), and carbon data (dissolved inorganic carbon, air-sea carbon flux). This model helps to understand the spatio-temporal variations of plankton dynamics and to determine whether they act as a carbon sink or source.



### METHODOLOGY

**DATA**

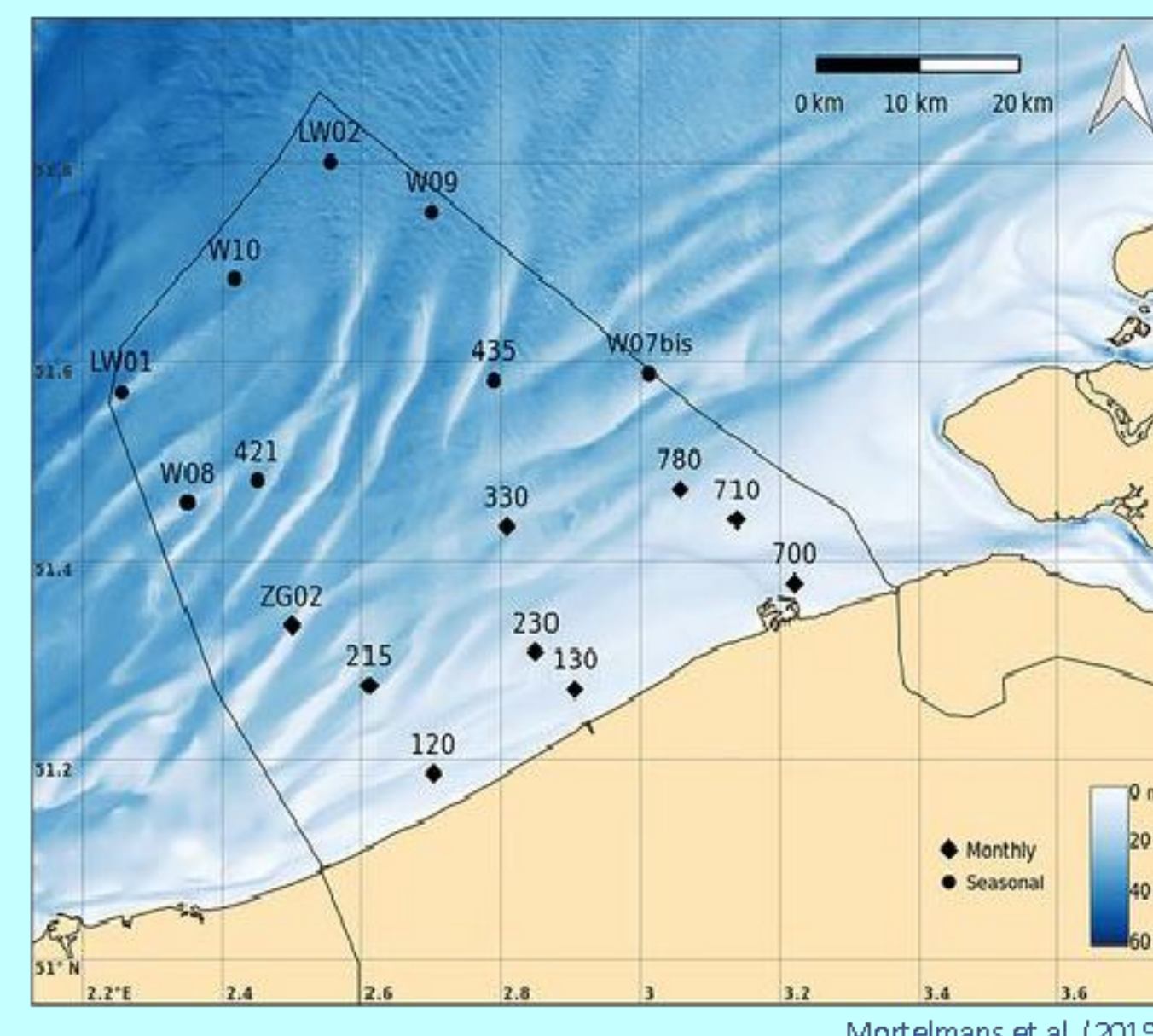
- Nutrients (DIN, PO<sub>4</sub>, SO<sub>4</sub>)
- Carbon (DIC, pCO<sub>2</sub>)
- plankton density
- Temperature



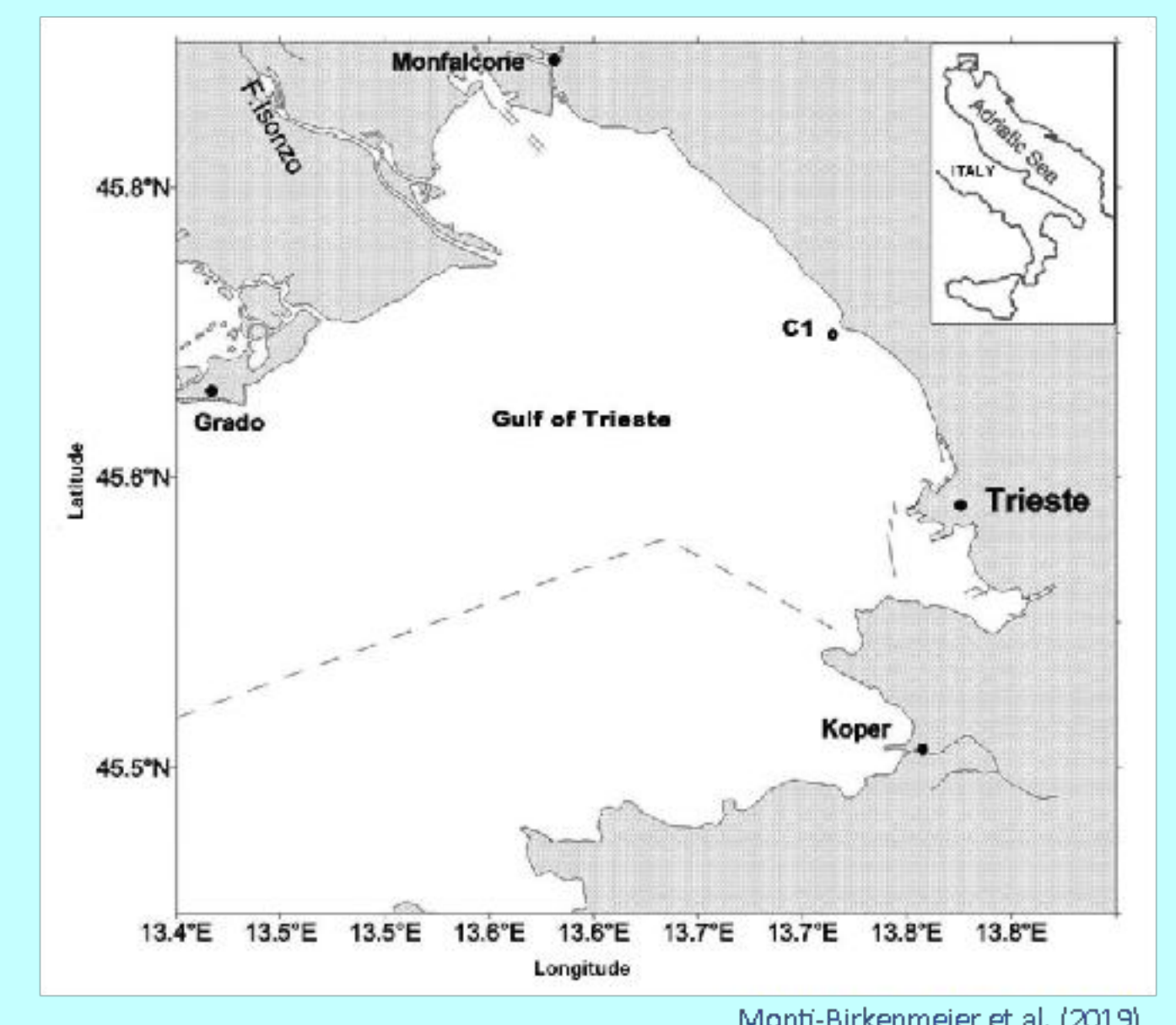
**EMODnet**  
European Marine Observation and Data Network



**ICOS**  
Integrated Carbon Observation System

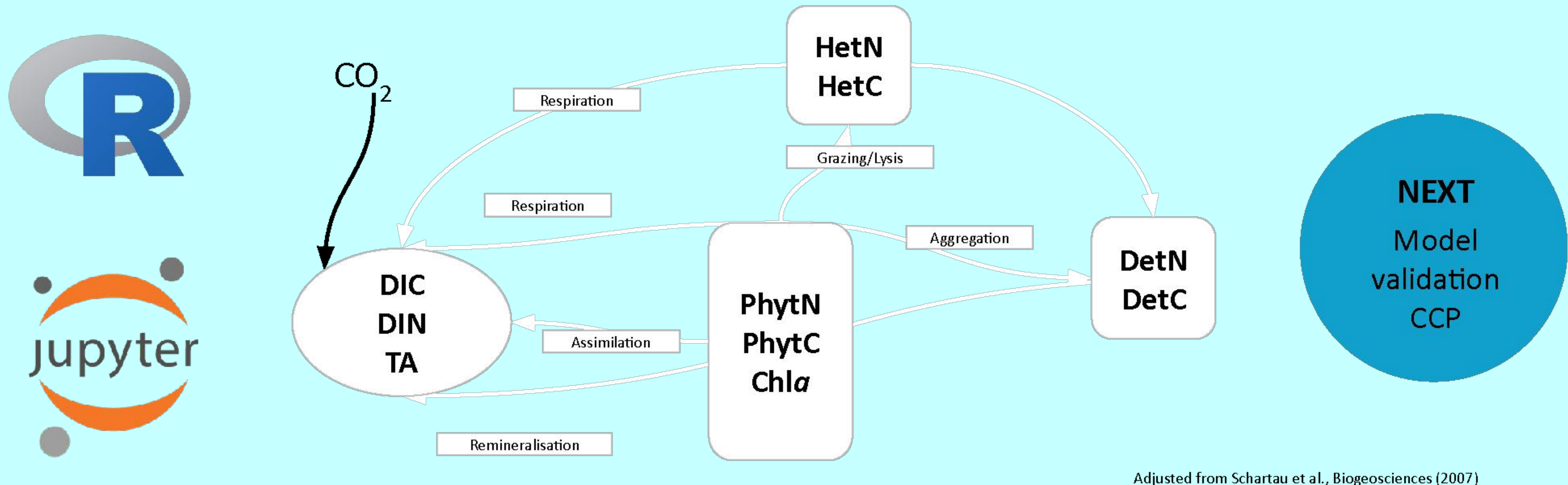


Belgian Part of the North Sea



Gulf of Trieste – Adriatic Sea

### Nutrient-Phytoplankton-Zooplankton-Detritus Model



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