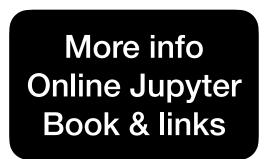
eReefs BioGeoChemical model

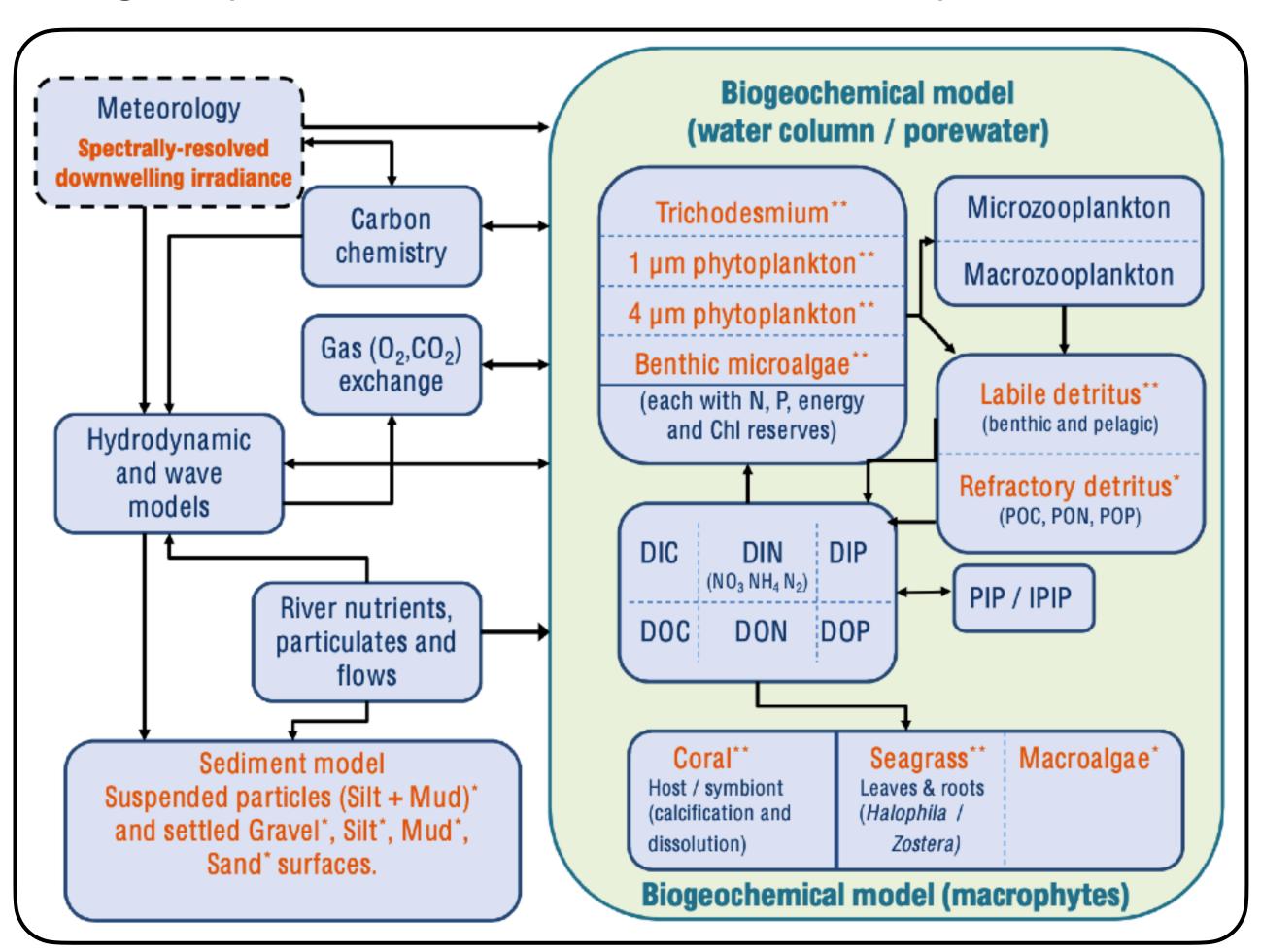


The GBR4 BioGeoChemical (GBR) model builds on the GBR4 hydrodynamic model by modelling the water quality (nutrients and suspended sediment) and key ecological processes (coral, seagrass, plankton) that drive the water chemistry.

We will be using the version 3.1 of the BioGeoChemical (BGC) model.

Version 3.1 of the BGC was developed to compare the effects of land practice improvements on water quality changes in the Great Barrier Reef. It was run with three scenarios of river sediment and nutrient loads to simulate the differences between:

- baseline conditions (based on current land use practices in 2019),
- pre-industrial catchment conditions, and
- target catchment conditions (anthropogenic loads reduced according to the percentage reductions of DIN, PN, PP and TSS specified in the Reef 2050 Water Quality Improvement Plan 2017-2022).



Schematic diagram of the ecological model compartments, links and vertical layers

eReefs Components integration



