Queensland

01-Apr-2021 00:00 - 01:00 AEST

Hourly

Temperature -1.5m

Variable ID: temp

Wind speed

Variable ID: wspeed_u:wspeed_v:group

Salinity -1.5m

Variable ID: salt

Current -1.5m

Variable ID: u:v:group

Data: eReefs CSIRO GBR4 Hydrodynamic Model v2.0

Map generation: AIMS 03-May-2021

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eReefs hydro/Bio models

eReefs modelling framework spans the catchments, estuaries, reef lagoon and the open ocean. It provides information on *physical processes*, *sediment transport*, *biogeochemistry* and *ocean colour*.

eReefs Hydrodynamic and **BioGeoChemical** models of the Great Barrier Reef are like weather models, but for the marine environment, providing a picture of the current and historical environmental conditions on the Great Barrier Reef.

AUSTRALIAN INSTITUTE
OF MARINE SCIENCE

CSIRO

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Why do we care?

Coral reefs are important for many different reasons aside from **containing the most diverse ecosystems on the planet**.

They:

- protect coastlines from the damaging effects of wave action and tropical storms
- provide habitats and shelter for many marine organisms
- are the source of nitrogen and other essential nutrients for marine food chains
- assist in carbon and nitrogen fixing
- help with nutrient recycling…

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