# NOVEL REEF-BUILDING COMMUNITIES & emerging after deep-time HYPERTHERMAL EVENTS

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## **NOVEL COMMUNITIES**

Document a rapid and irreversible shift into a new state that differs in composition and/or function from past communities (Pandolfi et al. 2020).



### **REEF BUILDERS**



CORALS: scleractinians are the main reef builders today. Tabulate and rugose corals are extinct reef-builders of the Paleozoic.



SPONGES: phylum Porifera - dominant reef builders in the Paleozoic.



bivalves, **RUDISTS**: extinct builders <sub>I</sub> reef important during Cretaceous the period

## DATA



A global compilation of reef-building genera from the Ordovician period (486.9 Ma) to Quarternary (0.0117 Ma) was obtained from the Paleobiology Database (PBDB).

## **METHODS**

