



## Coral reef knowledge

## for the International Year of the Reef 2018

by Franz Brümmer, La

Franz Brümmer, Laurent Fey, Steffen Hengherr, Rachel Quick & Ralph O. Schill

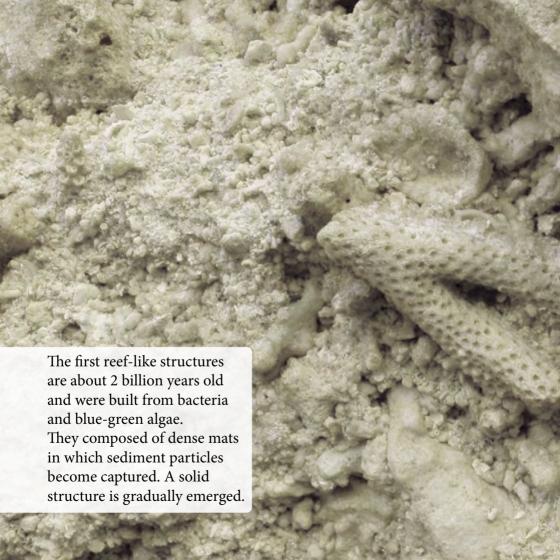
with photos & drawings of Herbert Bauder, Franz Brümmer, Herbert Frei, Paul Munzinger, Ralph O. Schill, Stephanie Naglschmid, Paul Selvaggio & Wolf Wichmann

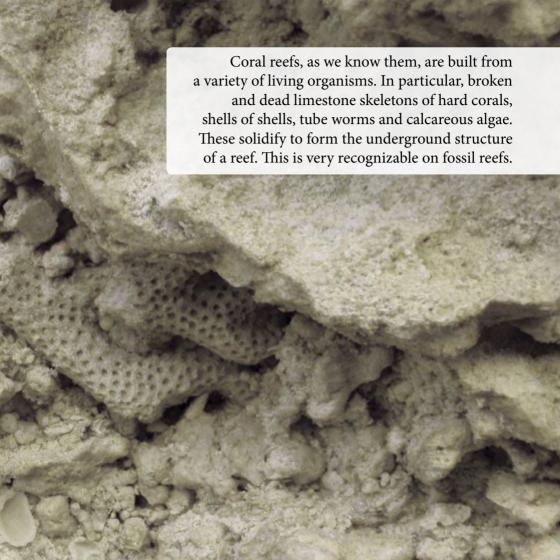


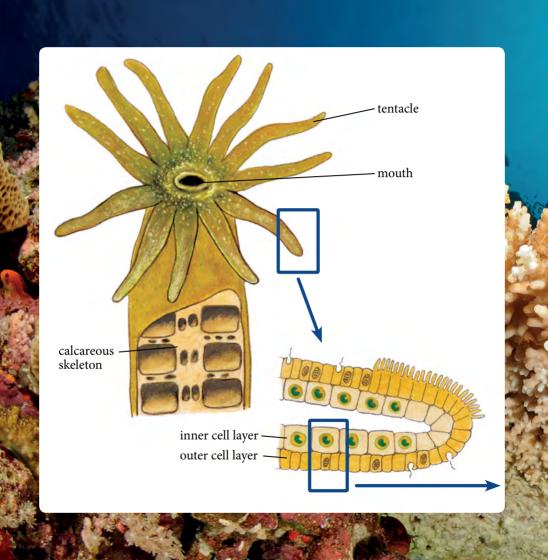


## Coral reefs

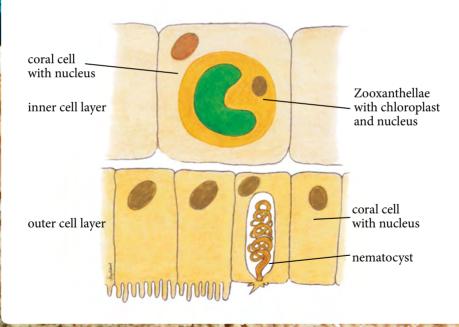
are the most beautiful and most spectacular habitats of our planet. With an overwhelming variety of living organisms – estimated at over a million species.





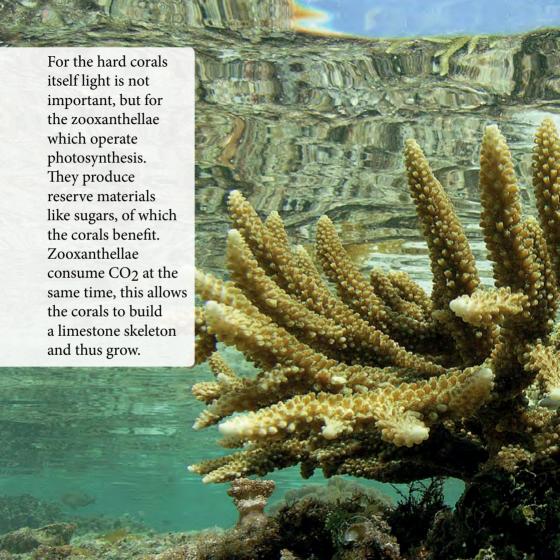


Corals are animals which consist of two layers of cells that cover the self-produced calcareous skeleton. The nematocysts are present in the outer cell layer. The zooxanthellae are small protozoa, they live in the inner cell layer.























An atoll is the coral ring of an earlier fringing reef around a sunken island. The sinking of the island happens over millennia, so it slowly forms a lagoon in the middle. The most famous atolls are the Maldives or in the South Seas.

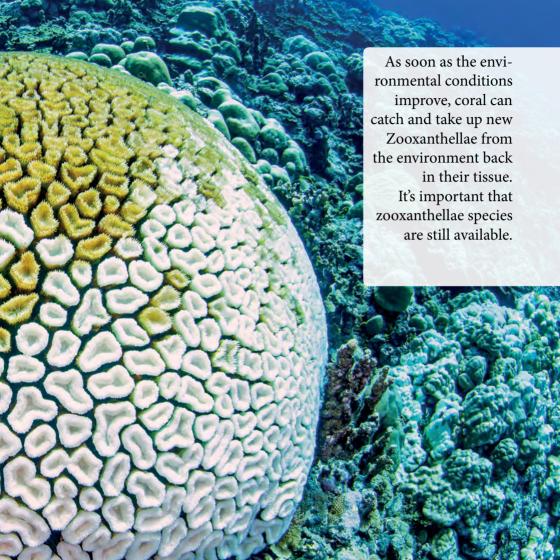


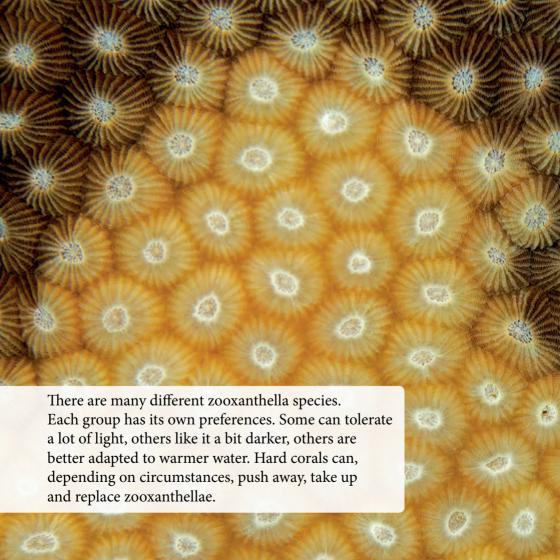
If hard corals are stressed, then they throw the zooxanthellae out of their tissues. This can be a reaction to warm water, strong UV radiation, pollutants in the water or diseases. As the living tissue of the stony coral largely is colorless, you can see the white calcareous skeleton which is known as coral bleaching.











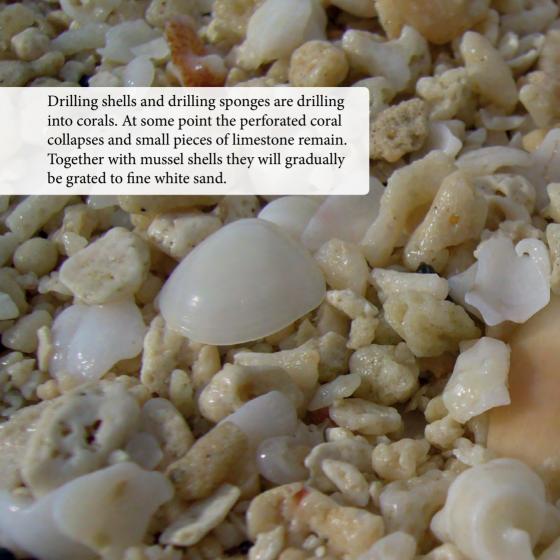




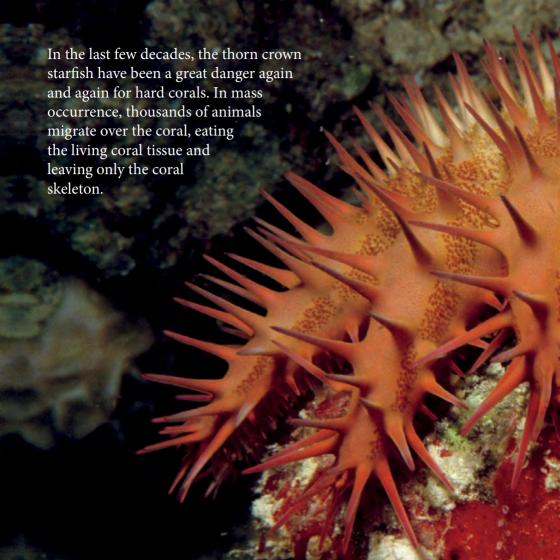










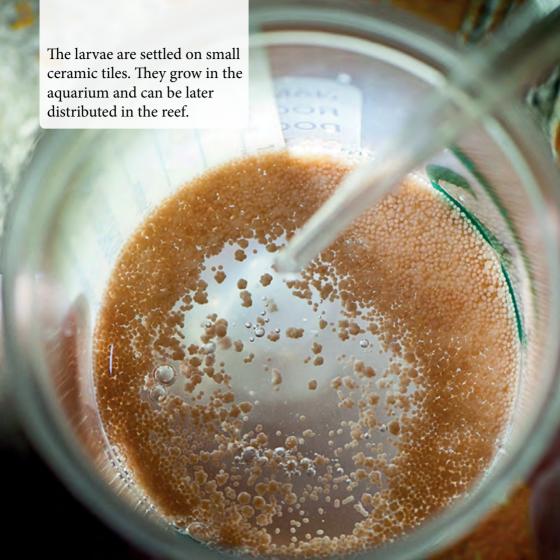








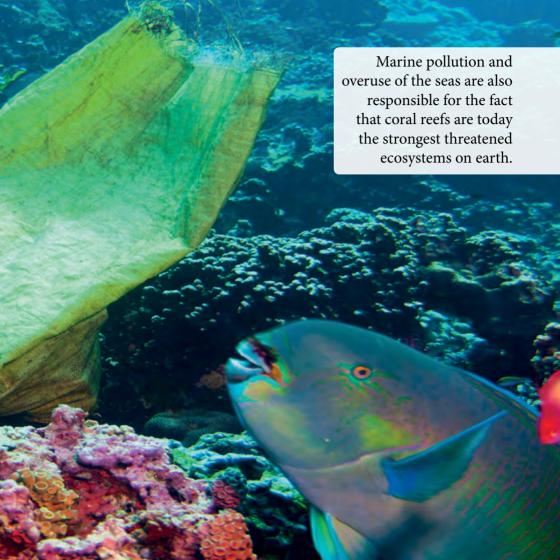














In order to be able to experience the fascinating underwater world in the future, everyone has to take a little responsibility for it.

The World Underwater Federation (CMAS) joins and supports the International Year of the Reef 2018.







