Tara-IUCN expedition

How are coral reefs coping with climate change?

ByDr Am Abbl and Dr Daid Obm

The effects of climate changeon coral reefs are visible today on many reefs worldwide. Predictions for coral reefs are extremely dire with many experts arguing that major changes in abundances of shallowwater coral assemblage are inevitable this century. As yet the effects of climate change and other agents of disturbance on coral reefs are not well understood.

It is critical for scientists and managers the impacts of climate change. This is called monitoring for resilience, where restricted the ability of a system to absorb or recover from disturbance

while maintaining its functions and

services. A number of resistanceand resilience indicators have been proposed to allow coral reef managers to predict a coral community's respons to thermal stress (IUCNW orking Groupon Climate Changeand Coral Reefsweblink).

To address these research priorities, the IUCNG lobal Marine Programestablishes: ritical partnerships with foundations, scientific bodies, and governments to undertake key multi disciplinary coral reef conservation research and public/educational outreach projects. In particular, the IUCN Global Marine Programme recently developed a partnership with the Tara Foundation and provides technical support to its non profit program, Tara Expeditions. Tara Expeditions is directed by Etienne Bourgois, chief executive officer of Agnèsb, a French fashion brand. The program was initiated in 2003, thanks to the brand's founder, Agnès B., and her determination to commit herself to the planet's remediation. Tara Oceansis its current expedition. The starting point for Tara Expeditions was the acquisition of the unique expeditions allings chooner Tara, previously owned by Dr Jean Louis Etienneand Sir Peter Blake.

Tara'svoyagesare dedicated to scientificresearchon the impact of global warming on the oceansby

widespreadbleachingin 1998 that affected the Indian Ocean, and that other local threats, such as sedimentation and crown of thorns seastar outbreaks, were also important determinants of reef health. Fishing pressure was, however, very high, shown by the absenceof large fish and top predatorsat all surveysites.

Next, the Tarastoppedat St. BrandonsIslandin Mauritius, from 22 April to 6 May – a small set of sandislandsand reefs on the CargadosCarajosshoalssome 400 km north of Mauritius. On this