

Success Stories in Troubled Waters

Text by Arnold Weisz

The race to save animal species from extinction is as important as ever before. There are still many threats to a growing number of animals, but there are also some success stories. Animals on the brink of extinction have rebounded.

Marine protected areas have proven to allow threatened fish stocks to recover and to increase the fishing yield in adjacent areas. In the Egyptian Red Sea, five years after the establishment of marine reserves, fishing has increased by 66 percent in neighbouring areas. Conservation is not an empty word, it actually helps. Even though the list of threatened marine species continue to grow, there are some remarkable success stories of the recovery of animal populations once threatened by extinction.

Coral trout comeback

Dramatic evidence that protected fish populations can bounce back rapidly from the impact of years of heavy fishing has been obtained by a team of marine scientists

Goliath groupers can reach a maximum length of approximately eight feet, weigh up to approximately 880-pounds and can live for more than 35-years. Photo: NOAA

found coral trout numbers rebounded by 31 to 75 per cent on a majority of reefs, which had been closed to fishing for as little as one and a half to two years. This come back of the coral trout came as a policy across 33 percent of the total GBR area in 2004.

trout species are the main target species for reef line fishers along the Queensland coast

Coral trout (Plectropomus leopardus) on the Great Barrier Reef, Australia. Photo: Michael T. Gallager

south. Coral trout target fish for all sectors of the fishery





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working on Australia's Great Barrier Reef

(GBR). Researchers report a spectacular

recovery in coral trout (Plectropomus

leopardus)—also called common

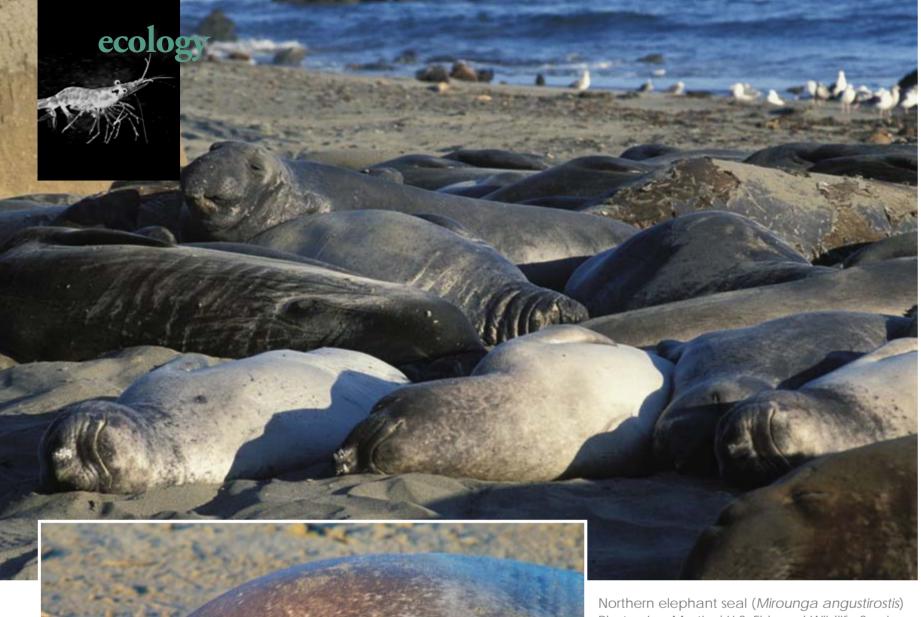


Photo: Joe Martin / U.S. Fish and Wildlife Service

LEFT INSET: A female lounging in cool damp sand in the Monterey Bay National Marine Sanctuary. Photo: Robert Schwemmer, CINMS, NOAA

sale in the 1800s for the oil that could be rendered from their blubber. In the late 1890s, it was estimated that only 50 to 100 individuals were left. The only remaining colony was on the Guadalupe Island off the coast of Baja California. The Mexican government was slow to react, but was the first to give protected status to elephant seals in 1922. The US government followed suit a few years later when the seals began

to appear in Southern California waters. Since that time, elephant seals have continued to multiply exponentially, and they have extended their breeding range as far north as Point Reyes. Today, there are approximately 160,000 northern elephant seals.

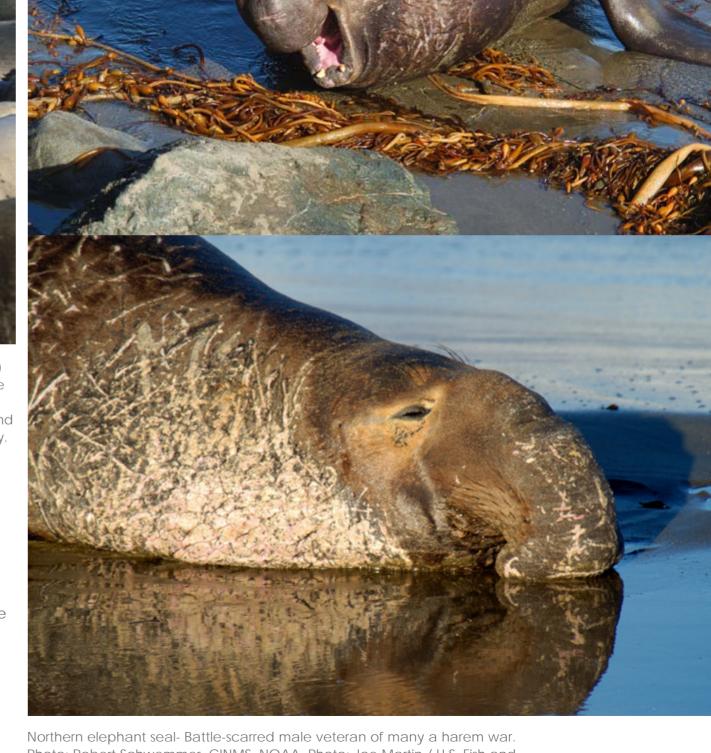


Photo: Robert Schwemmer, CINMS, NOAA. Photo: Joe Martin / U.S. Fish and Wildlife Service. TOP Photo: Robert Schwemmer, CINMS, NOAA

100 individuals left

Another dramatic success story is the survival of the northern elephant seals (Mirounga angustirostris). Hundreds of thousands of northern elephant seals once inhabited the Pacific Ocean from Baja California, Mexico to the Gulf of Alaska and Aleutian Islands. They were slaughtered whole-



Success Stories

Recovering, but still endangered

Another example which yet can't be called a success story, but shows that protection can help to save a species from extinction. The Goliath Grouper (Epinephelus itajara) populations in the eastern Gulf of Mexico are still on the IUNC Red list as Critically Endangered, but showing good signs of recovery. Intense fishing pressure by recreational and commercial fishing contributed to the population declines of goliath grouper. Goliath grouper is the largest of the western north Atlantic groupers. It can reach about 455 kg / 800 lbs and over 2m total length. Their slow growth, longevity, and large size at sexual maturation make them especially susceptible to overfish-

All harvesting of the Goliath Grouper in federal waters of the south-eastern United States (including the Gulf of Mexico) has been prohibited since 1990 by the South Atlantic Fisheries Management Council and the Gulf of Mexico Fisheries Management Council, and in the Caribbean since 1993 by Caribbean Fishery Management trend, the but only if quick action Council.

According to IUCN, it has been indicated that the ban on spearfishing in the upper Florida Keys has significantly and beneficially influenced the average size of groupers, although their populations in this region have not reached stable levels.

A study by Southeast Fisheries Science Center from 2003, indicates that the U.S. goliath grouper population has a about 50 percent chance that the population will have recovered to by 2006 and about a 95 percent chance that it will recover by 2012.

Not too late

The International Union for the Conservation of Nature (IUCN) has identified more than 16,000 species threatened with extinction. The risk of extinction for many species may have been seriously underestimated, according to new research published in the journal Nature. Well known studies also show that all species matter.

Because too many species in a region become extinct or are too low in numbers, the ecosystem itself unravels. According to researchers there is still time to reverse the protects depleted species more

> effectively and saves ocean habitats by creating new marine reserves.

LEFT: Grouper distribution phelus corallicola and were common in this Hong Kong fish market. Photo: Julie McGowan, Timana Photography, 2006 / Marine Photobank



map. FAR LEFT: Live large groupers such as Epine-Plectropomus leopardus