

Warming Waters Put Florida Coral on 'Threatened' List

Global Warming, Pollution, Disease and Hurricane All Blamed

By CLAYTON SANDELL

The large and stately elkhorn and staghorn coral off the coast of Florida were once two of the most Massive Die-Off Last Year dominant species on Caribbean reefs.

But now for the first time, the U.S. government has designated the two species "threatened" under the Endangered Species Act.

Disease, higher water tempera- harm. tures, sewage pollution and hurricanes have caused a 97 percent Experts say record-high sea tem- Moore acknowledged that indecline in some areas.

Officials with the Center for Biological Diversity, which led the lobbying effort to protect the coral species, said the "threatened" designation would require the federal government to come up with a recovery plan and provide protection for coral habitats.

The group also said the new listing would require the United States to start grappling with climate changes brought on by global warming.

"Global warming is the ultimate engine that's driving the threats Islands

the Caribbean," said Brent Plater, died partially, and 8 percent died an attorney with the center.

that live within the coral tissue, warming. creating a "bleached" look. The elevated temperatures can eventu- A growing body of science points ally kill the coral and in turn elimito global warming caused by hunate habitat for a variety of sea mans as a major threat to the creatures.

that coral reefs face throughout Thirteen percent of the colonies completely, according to NOAA.

"You can have a relatively low increase in temperature over a long Plater said the Endangered Spe-period of time, and it causes stress. cies Act would oblige the govern- or you can have a three or four ment to consider the impact of degree increase in a very short pegreenhouse gases — released by riod of time and it will still cause the burning of fossil fuels — on stress," said Jennifer Moore, a the health of the coral and force natural resource specialist with the it to take action to prevent further U.S. National Marine Fisheries Service, a division of NOAA.

peratures in the Caribbean have creasing sea-surface temperatures caused many corals to expel the were causing coral bleaching, but colorful, nutrient-providing algae did not say the reason was global

world's oceans, however.

Last year was the worst bleaching In 2005, climate researchers at the event ever recorded in the Carib- Scripps Institute of Oceanography bean, according to the National reported that 84 percent of total Oceanic and Atmospheric Admin- heating of the Earth system over istration. For the first time ever re- the past four decades had gone corded, nearly half of the elkhorn into the oceans. The warming coral surveyed in the U.S. Virgin "cannot be explained by natural underwent bleaching. internal climate variability," their

report said.

And last month, NOAA researchers said that the ocean has become more acidic as it absorbs carbon dioxide released as a result of burning fossil fuels.

The increased acidity can dissolve the calcium exoskeletons of coral and plankton, which experts say could substantially alter the biodiversity and productivity of the oceans.

"Coral reefs are known to provide billions of dollars in economic benefit to Florida alone. By protecting our shorelines from storm damage, by serving as habitats to fisheries, and by providing medicines," said Plater.

"And once they're gone, we can't bring those species back from extinction."