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## **NOAA Confirms Caribbean Monk Seal Extinct** *Other Monk Seal Populations Struggling*

After reviewing all sources of data, NOAA's Fisheries Service has determined that the Caribbean monk seal, which has not been seen for more than 50 years, has gone extinct.

Monk seals became easy targets for hunters while resting, birthing, or nursing their pups on the beach. The last confirmed sighting of the seal was in 1952 in the Caribbean Sea at Seranilla Bank, between Jamaica and the Yucatán Peninsula. This was the only subtropical seal native to the Caribbean Sea and Gulf of Mexico.

"Humans left the Caribbean monk seal population unsustainable after overhunting them in the wild," said Kyle Baker, biologist for NOAA's Fisheries Service southeast region. "Unfortunately, this led to their demise and labels the species as the only seal to go extinct from human causes."

Caribbean monk seals were listed as endangered on March 11, 1967, under the Endangered Species Preservation Act, and relisted under the Endangered Species Act on April 10, 1979. Since then, several efforts have been made to investigate unconfirmed reports of the species in or near the Caribbean Sea, Gulf of Mexico, southern Bahamas, and Greater Antilles. These expeditions only confirmed sightings of other seal types, such as stray arctic seals.

Five year status reviews are a requirement of the Endangered Species Act to ensure that the status of a species listed as threatened or endangered remains accurate and has not changed, for better or worse. The most recent review began in 2006.

NOAA's Fisheries Service plans to publish a proposed rule in the Federal Register, seeking public comment to permanently remove Caribbean monk seals from the Endangered Species List. Species are removed from this list when their populations are no longer threatened or endangered, or when they are declared extinct.

"Worldwide, populations of the two remaining monk seal species are declining," said Baker. "We hope we've learned from the extinction of Caribbean monk seals, and can provide stronger protection for their Hawaiian and Mediterranean relatives."

Hawaiian and Mediterranean monk seals are endangered and at risk of extinction with populations dipping below 1,200 and 500 individuals, respectively.

NOAA's Fisheries Service is responsible for protecting the Hawaiian monk seal. That population is declining at a rate of about four percent per year, and NOAA biologists predict the population could fall below 1,000 animals in the next three to four years, placing the Hawaiian monk seal among the world's most endangered marine species. Unlike the Caribbean monk seal, Hawaiian monk seals face different survival challenges, such as lack of food sources for young seals, entanglement in marine debris, predation by sharks, and loss of haul-out and pupping beaches due to erosion.

“The Hawaiian monk seal is a treasure to preserve for future generations,” said Dr. Bud Antonelis, biologist for NOAA’s Fisheries Service Pacific Islands Fisheries Science Center. “NOAA’s Fisheries Service has developed a monk seal recovery plan, but we need continued support from organizations and the public if we are to have a chance at saving it from extinction. Time is running out.”

Other species of marine mammals that have gone extinct in modern times include the Atlantic gray whale (1700s or 1800s) and Steller’s sea cow (late 1700s), due to overhunting by whalers. Exploitation of Caribbean monk seals began during the same time period.

Caribbean monk seals were first discovered during Columbus’s second voyage in 1494, when eight seals were killed for meat. Following European colonization from the 1700s to 1900s, the seals were exploited intensively for their blubber, and to a lesser extent for food, scientific study and zoological collection. Blubber was processed into oil and used for lubrication, coating the bottom of boats, and as lamp and cooking oil. Seal skins were sought to make trunk linings, articles of clothing, straps and bags.

Scientists are unsure about exactly when Caribbean monk seals went extinct. Although there have been no confirmed sightings since 1952, it is conceivable that undetected seals persisted for a short period thereafter. The seals lived 20 to 30 years, so experts believe that some adults possibly lived into the 1960s or 1970s.

The National Oceanic and Atmospheric Administration, an agency of the U.S. Commerce Department, is dedicated to enhancing economic security and national safety through the prediction and research of weather and climate-related events and information service delivery for transportation, and by providing environmental stewardship of our nation’s coastal and marine resources. Through the emerging Global Earth Observation System of Systems (GEOSS), NOAA is working with its federal partners, more than 70 countries and the European Commission to develop a global monitoring network that is as integrated as the planet it observes, predicts and protects.

On the Web:

Hawaiian monk seal information:

<http://www.pifsc.noaa.gov> or <http://www.fpir.noaa.gov>

Caribbean monk seal information, including the five-year status review and images:

<http://sero.nmfs.noaa.gov/pr/CaribbeanMonkSeal.htm>

Few high quality images of the Caribbean monk seal are available. A low resolution photo and sketch were provided courtesy of the New York Aquarium and the U.S. National Museum.