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New Study Suggests Minke Whales Are Not Preventing Recovery of Larger Whales

Genetic Testing Sheds Light on International Debate to Cull Minkes

WASHINGTON, Jan. 14 /PRNewswire-USNewswire/ -- Genetic analyses refute the hypothesis that an overly abundant population of minke whales is creating too much competition over food for populations of other whale species to rebound, according to a new study supported by the Lenfest Ocean Program and published this week in the journal *Molecular Ecology*. The study's findings indicate that the Southern Ocean minke whale population around Antarctica has not grown unnaturally large in the wake of industrial whaling, which decimated populations of other larger whales in the region.

Some whaling proponents in the international policy debate have argued that culling minke whales is a valid management solution for allowing populations of large whales to recover to their former levels. This study suggests that killing minke whales will not help the larger whale species to recover.

"We can ascertain that today's populations of minke whales are roughly similar in size to populations prior to early 20th century commercial whaling of larger species," said lead author Kristen Ruegg of Stanford University. "The research suggests that direct competition for food is not keeping the large whale populations from recovering."

Baleen whales feed on small animals, such as the crustacean krill, by filtering them through broom-like structures in their mouths called baleen. Some scientists had hypothesized that the Southern Ocean population of minke whales -- the smallest member of the baleen whale family -- had increased due to a lack of competition for food after industrial whalers killed more than two million large baleen whales, such as blue, humpback, sei and fin whales.

"Hopefully this study will help managers make more informed decisions about how best to manage whale populations in the Southern Ocean," said co-author Stephen Palumbi of Stanford University. "It has always been important to test hypotheses before using them in management."

The authors tested 52 samples of minke whale meat purchased at Japanese markets and isolated genetic markers that identify how much genetic diversity resides within the population. Researchers were then able to extrapolate how many individuals within the population most likely contributed to the gene pool.

The scientists offered several possibilities for why minke whales may not be in direct competition with other whale species in the Southern Ocean. One reason may be that minke whales are limited by factors other than food supply. Another possibility may be that minke whales do not feed on krill at the same time or in the same way as large whales and so do not directly compete with them.

Additional funding for this study was provided by the Marsden Fund of the New Zealand Royal Society.

For more information on the study from *Molecular Ecology*, visit: www.lenfestocean.org. To view an educational video about this study, please visit: <http://microdocs.org>.

The **Lenfest Ocean Program** supports scientific research aimed at forging solutions to the challenges facing the global marine environment. The program was established in 2004 by the Lenfest Foundation and is managed by the Pew Environment Group.

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