**MMSCI-5285**

**Lay Abstract**

Beaked whales are a group of whales that are particularly affected by underwater noise like sonar. People are interested in knowing how beaked whales respond to quiet and to loud sonar. To investigate this, we used underwater microphones in Hawaii to listen for the echolocation clicks these whales make when searching for food. We found that beaked whales are affected not only by sonar emitted by navy ships, but also by other navy training activities. Very loud (like a jet taking off nearby) sonar resulted in an 87% decrease in feeding activity. [92/100]

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Multi-stage GAMs help investigate changes in beaked whale foraging during naval training events [96/100]

Multi-day Navy sonar use results in an 87% decrease in beaked whale foraging on Navy range [91/100]