

Acoustic research sheds new light on whale sounds

July 2 2021



A pod of southern right whales. Credit: British Antarctic Survey

Scientists from British Antarctic Survey (BAS), Scottish Association for Marine Science (SAMS), and international collaborators have this week published the first detailed research on the sounds made by southern



right whales on their high latitude feeding grounds at South Georgia.

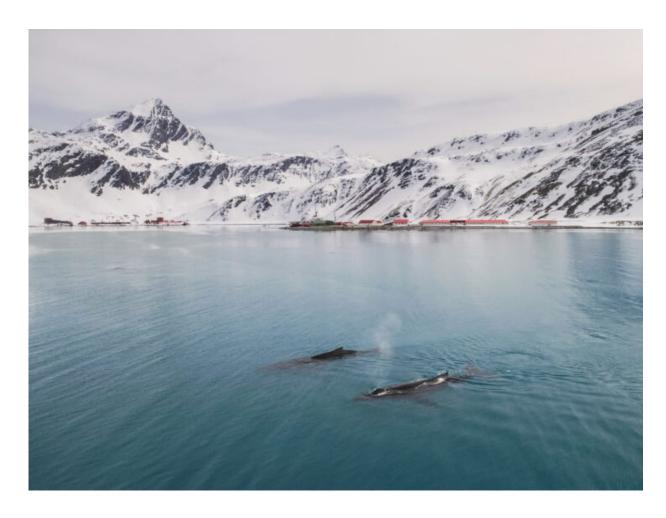
The <u>BAS South Georgia Wild Water Whales Project</u> used acoustic listening devices to record and describe <u>southern right whales</u>' call repertoire, directly linking their calls to visual sightings of the whales. In addition to describing southern right whale calls, the team compared their calls to those of the <u>humpback whales</u> they also recorded.

Lead author and whale ecologist, Dr. Susannah Calderan from SAMS, explains: "This is an important study. Telling the two species apart by their calls can be difficult, but is needed to enable acoustic recorders in the Southern Hemisphere to remotely monitor each species."

The southern right whale vocalizations recorded by the team showed little variation in call type—they were either the characteristic "upcall," a low frequency sound believed to be used by all age and sex classes as a contact call, or the high-intensity, broadband "gunshot" call, thought to primarily be part of mating behavior. Southern right whale calls could be distinguished from those of humpback whales based on their frequency characteristics and duration.

Co-author and whale ecologist, Dr. Jennifer Jackson of BAS, says: "With South Georgia waters designated as a Marine Protected Area by the Government of South Georgia and the South Sandwich Islands, we hope our research can continue to contribute to effective management of the area. Not only that, the results of this work will be useful for future acoustic studies on sub-Antarctic and Antarctic whale feeding grounds to improve knowledge of the distribution of southern right and humpback whales at different times of year."





Humpback whales sighted near King Edward Point Research station on South Georgia. Credit: British Antarctic Survey

More information: Susannah V. Calderan et al, Southern right whale vocalizations on foraging grounds in South Georgia, *JASA Express Letters* (2021). DOI: 10.1121/10.0005433

Provided by British Antarctic Survey



Citation: Acoustic research sheds new light on whale sounds (2021, July 2) retrieved 20 June 2024 from https://phys.org/news/2021-07-acoustic-whale.html

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