

ID: W2081328926

TITLE: Underwater noise of small personal watercraft (jet skis)

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ABSTRACT:

Personal watercraft (water scooters, jet skis) were recorded under water in Bramble Bay, Queensland, Australia. Underwater noise emissions consisted of broadband energy between 100 Hz and 10 kHz due to the vibrating bubble cloud generated by the jet stream, overlain with frequency-modulated tonals corresponding to impeller blade rates and harmonics. Broadband monopole source levels were 149, 137, and 122 dB re 1  $\mu$ Pa @ 1 m (5th, 50th, and 95th percentiles). Even though these are lower than those of small propeller-driven boats, it is not necessarily the broadband source level that correlates with the bioacoustic impact on marine fauna.

SOURCE: ~The æJournal of the Acoustical Society of America/~The æjournal of the Acoustical Society of America

PDF URL: <https://asa.scitation.org/doi/pdf/10.1121/1.4795220>

CITED BY COUNT: 35

PUBLICATION YEAR: 2013

TYPE: article

CONCEPTS: ['Watercraft', 'Acoustics', 'Underwater', 'Propeller', 'Jet (fluid)', 'Broadband', 'Environmental science', 'Noise (video)', 'Bubble', 'Marine engineering', 'Physics', 'Geology', 'Oceanography', 'Engineering', 'Computer science', 'Optics', 'Artificial intelligence', 'Mechanics', 'Image (mathematics)', 'Thermodynamics']