

Abstract Submitted
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Global warming impact on low frequency sound transmission in the ocean - Jurassic acoustics here we come. DAVID BROWNING, PETER HERSTEIN, Browning Biotech, PETER SCHEIFELE, Fetch Lab, Univ. of Cincinnati — Amazingly, 2.4 MILLION pounds of carbon dioxide are ejected into the atmosphere every SECOND, about a quarter of which is absorbed into the oceans of the world. This results in ocean acidification, which negatively impacts the boron chemical reaction principally responsible for low frequency sound absorption in seawater, hence low frequency sound transmission improves. Already there is a measurable decrease in ocean surface pH and if this continues and migrates throughout the water column it is projected that the sound transmission will eventually become similar to that in the high CO₂ Jurassic Age of the distant past.

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