

ABUNDANCE AND DISTRIBUTION OF *Vibrio fischeri* IN THE MARINE
ENVIRONMENT

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ABSTRACT

The environment of *Vibrio fischeri* has been poorly understood until recently. This paper examined the presence of *V. fischeri* in the surface water and the marine sediments. With the use of a *luxA* specific probe, *V. fischeri* could be detected in the environment. Water and sediment samples were taken from Paiko Reef, Oahu, Hawaii. It was discovered that *V. fischeri* was more abundant in the surface water than in the marine sediment. On average, 5.28 *V. fischeri* were found in the surface water and 1.50 *V. fischeri* were found in the marine sediment. Future experiments on different locations should be conducted to better understand the presence of *V. fischeri* in the marine environment.