

LETTERS TO THE EDITOR

COMPARISON OF OBSERVED AND THEORETICAL FREQUENCIES FOR AN OCEANIC STRUCTURE

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In a recent paper (Bradner *et al.*, 1970), observed frequencies obtained from coherence peaks of records, taken with instruments placed at the ocean bottom and at midwater depth in a region near Hawaii, are compared with theoretical frequencies calculated several years ago (Abramovici, 1968). As the frequencies taken from my paper were just read from the plots given there and I still have the exact numbers, I thought it fit to present them here. Shifting a few entries in the table given by Bradner *et al.*, the agreement between the observed and theoretical results is even more pronounced, as it can be seen from Table 1.

TABLE I
OBSERVED (BRADNER ET AL.) AND THEORETICAL
FREQUENCIES

Mode	Theoretical frequencies (cps)	Observed frequencies* (cps)
1	0.08	0.08
2	0.25	0.26
3	0.42	0.45
4	0.58	0.64
5	0.73	0.72
6	0.78	0.88
7	0.93	
8	1.08	1.08
9	1.15	1.20
10	1.29	1.32
11	1.46	1.52
12	1.64	1.64
13	1.80	1.76
14	1.97	1.90
		2.08
15	2.14	2.20
16	2.30	2.32
17	2.46	2.52
18	2.64	2.64
19	2.80	2.76
20	2.95	2.92

* The accuracy of the observed frequencies is \pm 0.02 cps.

REFERENCES

- Abramovici, F. (1968). Diagnostic diagrams and transfer functions for Oceanic wave-guides, *Bull. Seism. Soc. Am.* **58**, 427-456.
 Bradner, H., L. G. de Jerphanion and R. Langlois, (1970). Ocean microseism measurements with a neutral bouyancy free-floating midwater seismometer, *Bull. Seism. Soc. Am.* **60**, 1139-1150.

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