

R&D of a highly sensitive barometer using an optical fiber transducer

Akiteru Takamori^{1*}, Shingo Watada¹, Yuichi Imanishi¹, Toshiaki Kitajima², Takuma Oi³

¹ERI, University of Tokyo, ²Mitomi Giken Co.,Ltd, ³TOHO MERCANTILE CO., LTD.

Highly sensitive barometers optimized for dense array observations are required to facilitate infrasound observation, noise reduction in gravity measurements and other geoscience applications.

The authors have been working on the R&D of such barometer, by using an optical fiber transducer.

The concept and R&D status of the work will be presented.

Keywords: sensitive barometer, optical fiber transducer