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Utilizing acoustic noise and sensitivity kernal analysis for seismo-acoustic inversion

W. A. Kuperman , L. A. Brooks, B. Cornuelle, S. Fried, P. Gerstoft, W.S. Hodkgiss, R. Kaustubha, P. Roux, K. G. Sabra, B. Sarkar

Scripps Institution of Oceanography, Univ. of CA, San Diego, La Jolla, CA,, 92093-0238, USA (wkuperman@ucsd.edu)

Processing of acoustic and elastic fields provides information about the media through which these fields propagate. Two areas of interest that intersect geophysics and astrophysics are Green's function retrieval from noise and sensitivity kernel analysis of potential inversion configurations. A review is presented of these data and analytical processing methods from ocean acoustics and seismo-acoustics that may have application to or overlap methods used in helioseismology.