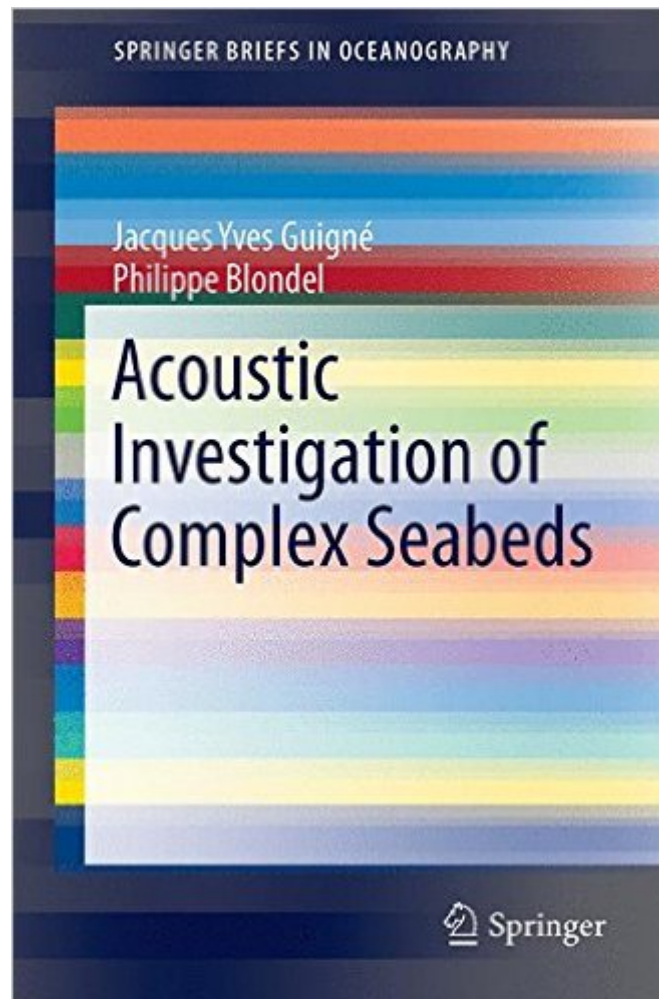


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# Acoustic Investigation Of Complex Seabeds (SpringerBriefs In Oceanography)



## Synopsis

Offshore drilling and constructions require exact knowledge of the geophysical properties of the seabed and sub-seabed, as unexpected objects can slow down or halt projects. This book presents the state-of-the-art in acoustic exploration of the seabed and sub-seabed, from initial designs in the 1980s to commercial contracting and operation of the Acoustic Corer<sup>®</sup> in the last decade. The Acoustic Corer<sup>®</sup> is a high-definition commercial acoustic sub-bottom imaging system, producing an acoustic core within which sub-seabed sedimentary characteristics and discrete buried objects larger than 0.5 m can be identified and mapped. It makes use of the innovative JYG-cross design, inspired by seismic reflection and uses Synthetic Aperture Sonar (SAS) multi-angle scattering in and within the seabed to deliver unprecedented imagery. This book was written by the inventor of these concepts, a known specialist in seabed acoustics, with help from an experienced academic and author. It is intended first and foremost as a how-to guide for offshore industries looking at techniques to make the installation of different types of structures safe and efficient.

## Book Information

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