

Points to improve Pop-up ocean bottom instruments

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Pop-up Ocean bottom instruments for geophysical/geochemical measurements have a common problem to be solved. In recent years, it has become common to send acoustic signals to recover the bottom instruments. However, if we fail in the recovery of the instruments, we lose scientific data. Also the failure simultaneously means that the improvement of the instruments has become difficult because the cause of the failure cannot be identified because of the loss of the failed instruments. This paper reviews recent ideas and devices to improve the pop-up instruments, and shows recent improvements and results of this field.