

Improvements of recovery rates of 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; to improve recovery rates. In recent years, it has become common to make use of acoustic transponders for the recoveries. However, the problem of the recovery rates is the most serious problem because the failure in the recovery of the instruments means at the same time the loss of the scientific data. Also it means that the improvement of the instruments has become difficult because the cause of the failure cannot be examined because of the loss of the failed instruments. This paper reviews the various ideas and devices to improve the recovery rates, and shows recent improvements and results of this field.