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Ocean Science Discussions

Interactive comment on "Deep-sea search and recovery: with and without operating an underwater vehicle" *by* Tongwei Zhang et al.

Anonymous Referee #1

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As human activities continue to expand into deep seas, more requirements are needed for deep sea search and recovery. Currently, ROVs and HOVs are the main forces for deep sea recovery. Due to the high cost and scarcity of ROVs and HOVs, the authors in this paper proposed a new type of deep-sea recovery system based on TV-grab in oceanography. The quite detailed design and its recovery process are described. Although the new system has not been implemented and tested yet, based on this reviewer's experience, this concept is feasible and can easily be implemented. Therefore, the present concept is of some practical value and to those who have the TV-grabber but lack of ROV and HOV, they can use TV-grabber to carry out the recovery task in an emergency situation. The paper is in overall quite comprehensive and well presented. In terms of the originality, it is really not so much and in terms of

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the economic benefit, it is also very limited since TV-grabber is a type of ROV and their operational costs are more or the less the same. In terms of the technical contents, this reviewer think it is not ocean science scope but ocean technology scope. Therefore, it is recommended for rejection in this journal but the authors are suggested to submit to the technology scope journal. Some other minor corrections and suggestions are given in the attached PDF file.

Please also note the supplement to this comment:
https://www.ocean-sci-discuss.net/os-2018-88/os-2018-88-RC1-supplement.pdf

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