

***Interactive comment on “Technical Note:  
Detection of gas bubble leakage via correlation of  
water column multibeam images” by  
J. Schneider von Deimling and C. Papenberg***

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The topic of estimating rise velocities of bubbles is certainly of interest. The authors convincingly show that they can extract these data from a multibeam system. In general, the text is thoroughly prepared, very well written, and describe the conducted study decently. However, as I have never applied the statistics so far, I can not comment on the cross-correlation technique described in the manuscript.

A stationary ship is needed in order to estimate the rise velocities of bubbles. In addition, the resolution of the echosounder is limiting. When I understand correctly, the method can therefore only applied in shallow water of a few tens of meters. These

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issues somehow limit the application of the proposed method.

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Interactive comment on Ocean Sci. Discuss., 8, 1757, 2011.