

Interactive comment on “First images and orientation of internal waves from a 3-D seismic oceanography data set” by T. M. Blacic and W. S. Holbrook

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We would like thank our anonymous reviewer for his/her well explained comments.

We have added text and adjusted our interpretation of the reflections we see in our data based on this reviewer and B. Ruddick’s comments (title, section 3, paragraph 2; section 4). Because of the lack of corroborating oceanographic information to go with our data set, we have limited our interpretation to suggest that the reflections are caused by fine structure from internal wave strain or possibly previous mixing with a small-scale internal wavefield superposed.

Based on just a visual scan of the seismic images of our data, we don’t see any partic-
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ularly good locations to carry out the reviewer's suggested study of vertical coherence. In addition, doing such work in 3D would be an involved process that would be best addressed as a separate study. We feel it is beyond the scope of this paper.

Similarly, plotting reflection velocity relative to the ship in 3D as described by Klaeschen et al. (2009) would require careful 3D migration (with considerable processing and time cost). This is also beyond the scope of this paper and should be addressed as a separate study.

Interactive comment on Ocean Sci. Discuss., 6, 2341, 2009.

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