

## ***Interactive comment on “Enhancing the accuracy of automatic eddy detection and the capability of recognizing the multi-core structures from maps of sea level anomaly” by J. Yi et al.***

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Received and published: 27 July 2013

Dear Referee #1,

Thank you for your constructive comments and serious criticisms, which prodded us to thoroughly consider the shortage of our work and carefully revise the manuscript. In the revised version, we made the following modifications according to your review:

- (1) We added the discussion about the eddy definition and presented our understanding of defining an ocean eddy in the Sect. 2.2.1 (P6 L10-27, P7 L1-9).
- (2) The criteria or constraints in the detection algorithm were summarized in Sect.

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2.2.2(P9 L12-25, P10 L1-2).

(3) We credited all the authors who provided detection productions or source codes of different detection methods in the ACKNOWLEDGEMENT (P18 L17-22) and in the description of Figure 7 (P32 L3-6).

(4) The limitation of the HD method was discussed and underlined in Sect. 4 (P17 L26-27, P18 L1-8).

Furthermore, as the other reviewer suggested, (5) we also posted the ROC analysis results in Sect. 3.1 (P13 L19-26) and in Sect. 3.2 (P14 L22-26).

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Interactive comment on Ocean Sci. Discuss., 10, 825, 2013.