



OSD

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Interactive Comment

Interactive comment on "Indian Ocean subtropical mode water: its water characteristics and spatial distribution" by T. Tsubouchi et al.

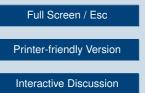
T. Tsubouchi et al.

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We thank the referee for his/her careful reading and constructive comments. Enhanced by the comments, we did some analysis and we are revising the manuscript. We will add a few figures for the manuscript. The revised manuscript will be submitted by the end of September.

Following is a reply for key issue. Please see supplement for complete reply and additional figures. Another mode water: its core temperature is 12-14C We totally agree with the referee's comments. We should clarify the relationship between this mode water and our defined IOSTMW. We assumed IOSTMW as a mode water



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which is associated with the subtropical western boundary currents. This concept is based on the definition of type I mode water defined by Hanawa and Talley (2001). From this point of view, the relationship between IOSTMW and mode water with core temperature 12-14C was investigated. We include a few figures in supplement in order to clarify this issue. As a conclusion, we argue that this mode water with core temperature 12-14C should be recognized as another mode water from view points of water characteristics, distribution area and formation region.

Please also note the Supplement to this comment.

Interactive comment on Ocean Sci. Discuss., 6, 723, 2009.

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