

## ***Interactive comment on “Improved quality check procedures of XBT profiles in MFS-VOS” by F. Reseghetti et al.***

**F. Reseghetti et al.**

Received and published: 22 November 2006

### General comment

A significant revision of the manuscript has been done: the title has been changed and the general structure has been modified. Other XBT characteristics have been analysed, in addition, the arguments described in Appendices are now detailed in the main text. The use of acronyms has been strongly reduced, and all the quoted ones have been defined at their first appearance. In the final section, enlarged discussion on the possible use of obtained results has been developed. The temperature difference  $T(\text{XBT})-T(\text{CTD})$  has been used. All figures have been labelled. Several Tables and Figures (and their captions) have been modified.

### Specific comments

We maintain the page number of the reviewer letter in this reply. In any case, all specific comments have been taken into account, namely syntactic or grammatical indications, and refuses in quotation.

Title: the new title is FACTORS AFFECTING THE QUALITY OF XBT DATA. RESULTS OF ANALYSES ON PROFILES FROM WESTERN MEDITERRANEAN SEA.

Abstract has been completely rewritten, in order to better describe the new structure of the paper.

P 1443: The expression on depth error has been improved, whereas all the quotations to PAPER-I have been excluded. P 1445: The indicated expression have been modified. P 1448: A more general description of calibration procedures, also including previous works, has been done. P 1449: The expression “fine tuning” has been substituted by temperature correction. Table 1: the content has been changed. Table 2: there is a new caption better explaining the values quoted in table. Table 3: the table now includes time-spatial coordinates of all dropped probes analysed in the paper. Figure 1 (and the temperature differences in the text, in captions and remaining Figures): the temperature difference  $T(\text{XBT})-T(\text{XTD})$  has been used. Figure 11: now, the figure shows the difference in temperature using earl data processing and fall rate coefficients, the new developed procedure without and with temperature correction.

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Interactive comment on Ocean Sci. Discuss., 3, 1441, 2006.

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