

Interactive comment on “Introduction to special issue: the TransBrom Sonne expedition in the tropical West Pacific” by K. Krüger and B. Quack

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Overall answer to the referee comments by N.R.P. Harris:

We thank Neil Harris for his fruitful and detailed comments. We will add more explanations and information about the ship cruise in Section 2, adding also a measurement table, according to your helpful suggestions. As these details are published in the open access cruise report (Quack and Krüger, 2010) at (http://www.ifm-geomar.de/fileadmin/ifm-geomar/fuer_alle/institut/publikationen/ifm-geomar_rep37.pdf), we will give a short summary, adding the necessary details as suggested. A summary of the key results for this ship expedition is still planned for the revised version of the introduction paper. However, for this we have to wait for the other special issue papers to be submitted. Therefore, we would like to leave this decision

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up to the ACP Editors.

A point by point list to the minor points can be found below:

(Reviewer comments are in “”):

- “The abstract is terse and is more about the special issue than the paper itself. The last sentence is not true. The findings from the cruise are not discussed – the topics are. The first paragraph of the Introduction would be a good start for a revised abstract.” The abstract will be changed according to it.
- “Should CH₃I be written as ‘methyl iodide’ or ‘methyl iodide’? “ We will check with ACPD and adapt it to their style.
- “Some acronyms are defined (NEC, NECC, SLP, SAT, SEC) which are hardly used. In such cases, it is much more helpful to the reader to use the full name.” Fixed.
- “1402, 19 ‘..Pacific along a unique. . .’ “ Fixed.
- “1402, 21 delete ‘for the investigations’” Done.
- “1403, 4 ‘..Pacific allows investigation of. . .’” Done.
- “1404, 15-17 this reference is not sufficient. A summary is needed here.” Will be done, as described above.
- “1405, 6 ‘After passing through this region where atmospheric composition was influenced by tropical storms, we crossed. . .’” Fixed.
- “1406, 16on ‘From 6S to the end of the cruise in Townsville (19S), the SST decreased to 25C as the Sonne passed through the Southern Equatorial Current.’” Fixed.
- “1406, 20/21 ‘There is a sharp drop. . .’” Fixed.
- “1406, 27 ‘. . .our meteorological measurements. . .’” Fixed.
- “1407, 6 on The tense in the paragraph varies between present and past. Does not

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matter which, but best to stick to one." Changed.

- "1407, 10 the storm is referred to as Melor earlier. Best to do the same here." Good point, fixed.

- "1407, 11 ' . . winds. The air pressure then. . ." Fixed.

- "1407, 15 ' . . from the northeast." Fixed.

- "1407, 19 '..Fig. 3), which developed. . ." Fixed.

- "1407, 18on I am not sure this paragraph is justified unless some results are presented in this paper. The bulk of the paper is about the project intentions, not the project results. It could be redrafted to say that the other papers in the special issue will show it." Good point, we will directly relate it to the Tegtmeier et al study in preparation.

Many thanks for your efforts,

Kirstin Krüger and Birgit Quack

Interactive comment on Atmos. Chem. Phys. Discuss., 12, 1401, 2012.