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Interactive comment on "Technical Note: Animal-borne CTD-Satellite Relay Data Loggers for real-time oceanographic data collection" by L. Boehme et al.

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Responses to Referee's comments

Again we thank for the very positive comments on the paper and for pointing out some aspects, which were not clear or sufficiently emphasised. We have responded to each of specific comments as described in detail below.

Specific points:

P1262 line 18 I would be inclined to replace 'scarce' by 'scarce or absent': these tags are returning data from areas never previously sampled.

C555

Thanks for pointing this out and we emphasised this point (see also next point).

P1263 line 11 a key deficiency of the current distribution of Argo floats, addressed in part by the CTD-SRDLs, is the lack of cover in the Southern Ocean – maybe the authors should make this point?

We modified the text to highlight that Argo is not designed for the polar regions and other means are necessary to cover these remote areas.

P1264 line 4 CTD-SRDLs are the first animal tags to report CTD profiles, not the first instruments!

We added this information to the text.

P1264 line 8 typo: subpo-lar This was a typesetting problem.

P1266 line 12 maybe 'harm' should be replaced by 'detectable harm'? We agree with the reviewer and added 'detectable' to the sentence.

P1266 line 19 the words 'almost no power' are meaningless: better to quote mW, and/or compare to the power demand of a familiar device such as an Ipod!

Thanks for pointing this out. We added the total consumption over its lifetime and refer to the new section about the energy budget.

P1266 line21 as noted by other reviewers, an un-pumped resistive sensor should perform well, and should not suffer from the proximity effects that are a feature of most inductive sensors, except for the zero external field models

We reworked the text to discuss this topic as mentioned in the other responses.

P1268 line 8 comma after 'surface' and not after 'taken'

P1270 line 3 the salinity error introduced by proximity of the inductive sensor to the animal is a crucial issue that needs to be tackled. I would like to have seen some discussion of this, rather than a bland reference to 'post-processing'.

As this is such an important point and it needs further investigations to determine if this offset is due to the effect of the seal's head or has other causes. Nevertheless, such offsets can be reliably corrected using methods developed by the Argo community. We amended the text to make this point clearer.

P1271 line 16 'are' rather than 'is' P1276 line 22 'System' not 'Systems'

Fixed

Interactive comment on Ocean Sci. Discuss., 6, 1261, 2009.