

Interactive comment on “Quantifying in-situ gas hydrates at active seep sites in the eastern Black Sea using pressure coring technique” by K. Heeschen et al.

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Dear Reviewer, thank you very much for your very positive and constructive review of our manuscript.

Regarding your comments we choose our wordings a little more careful where they have been vague or misleading: e.g. , in the matter of site evaluation vs broad inventories or gas hydrate boundaries.

As for the publication of time-series plots we refer to our earlier answer on comments from Jerry Dickens.

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We deleted the discussion regarding the seismic data and refer to chemical analysis recently published by Reitz et al. (2011) instead thus avoiding the verbal descriptions related to the seismic data as suggested by you.

You read the sentence perfectly right: The gas compositions referred to in 4539-14 originate from gas hydrate samples – not the gas collected from the cores - and are described as such in Table 4.

As you suggested we deleted the “exceeding average values” and similar “worldwide comparison” comments.

We think that data on the sediments themselves (grain size analysis etc) do not add to the story presented in this paper – however, it might be worthwhile to look into it and maybe there will be another story. Porewater data of adjacent cores are presented by Reitz et al. (2011), the porosity of BS351 is shown in Figure 1A.

Technical corrections: We integrated the technical corrections, which were often identical with corrections suggested from John Pohlman.

Thanks again for your helpful comments on the manuscript and the comparison of our data with other. Best regards,

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