

***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.***

**K. Heeschen et al.**

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Hi Jerry, thank you for your reply. I do like your approach and I agree that point 4 is the real challenge given the heterogeneity of the sediments plus that of gas and gas hydrate distribution, which makes the applications of numerical models difficult. But we are a good way down the road to get a grip on number 3 and with increasingly better geological models and techniques to determine gas hydrate volumes I am sure uncertainties on the modeling data should decrease significantly. As mentioned in our earlier comment we added a paragraph (in A1.2) regarding the temperature conditions during degassing and the issues occurring due to this. As we do not refer to any data

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that are affected by the degassing conditions in the mayor text we added the comment to the supplement with the figure it refers to. Best regards and thank you for your interest in our paper.

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