

Assessment of Hg speciation changes in the sedimentary rock record from thermal desorption characteristics

Frieling, J.^{1*}, Fendley, I.M.^{1,2*}, Nawaz, M.A.¹ and Mather, T.A.¹

¹Department of Earth Sciences, University of Oxford, South Parks Road OX1 3AN, UK

²Department of Geosciences, Pennsylvania State University, University Park, PA 16802, USA

*Corresponding authors: Joost Frieling (joost.frieling@earth.ox.ac.uk), Isabel Fendley (ifendley@psu.edu)

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Brief description of Supplementary files S1-S11

S1: Data file with newly generated and existing Hg data (Percival et al., 2015), as well as existing carbonate and total organic carbon data used in Figure 2, 10 and further data analyses (Jenkyns et al., 2001; Morgans-Bell et al., 2001).

S2: Data file with cumulative Hg release through thermal desorption profiles for 65 samples.

S3: Data file with the correlation between cumulative, 5, 10 and 20 second rolling windows of Hg release vs TOC used in Figure 8.

S4: Data file containing measured Hg data on Kimmeridge Clay Formation samples that can be used to extract TDPs (2023-02-14)

S5: Data file with raw detector timeseries data on Kimmeridge Clay Formation samples that contains the TDPs (2023-02-14)

S6: Data file containing measured Hg data on Kimmeridge Clay Formation samples that can be used to extract TDPs (2023-02-15)

S7: Data file with raw detector timeseries data on Kimmeridge Clay Formation samples that contains the TDPs (2023-02-15)

S8: Zip archive with 65 files (.csv), for each of the Kimmeridge Clay Formation samples

S9: Example R-script to extract and process the measurements and extract the TDPs from the timeseries files

S10: Data file with cumulative Hg release through thermal desorption profiles for 45 Standard reference material and replicate sediment samples.

S11: Zip archive with 45 files (.csv), for each of the NIST standard materials and sediment replicate analyses