



**Final Symposium:
Research Group on
'BioGeoChemistry of Tidal Flats'
May 19-20, 2009**



Poster presentations

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| 1 | T. Badewien ⁵ , A. Bartholomae ⁶ , R. Reuter ⁵ | Measurements of SPM (Suspended Particulate Matter) in the Wadden Sea |
| 2 | K. Lettmann ¹ , J.-O. Wolff ¹ | Impact of wind and waves on suspended particulate matter fluxes in the East Frisian Wadden Sea (southern North Sea) |
| 3 | U. Gräwe ¹ , K. Lettmann ¹ , J.-O. Wolff ¹ | Suspended particulate matter dynamics in a single particle framework |
| 4 | A. Lübben ⁵ (& OceanWaveS GmbH, Lüneburg), S. Koch ¹ , T. Badewien ¹ , O. Dellwig ² , R. Reuter ⁵ | Flux of yellow substance in German tidal coastal waters |
| 5 | D. Voß ^a , B. Fiedler ^b , R. Heuermann ^c , A. Körtzinger ^b , K. Munderloh ^c , O. Zielinski ^a (^a IMARE/HS Bremerhaven, ^b IFM-GEOMAR, ^c TriOS GmbH) | Computation of nitrate concentrations in coastal waters using an in-situ ultraviolet spectrophotometer |
| 6 | C. Wu ³ , D. de Beer ³ | Transport processes in Janssand |
| 7 | M. Beck ¹ , W. Moore (Univ. South Carolina, USA & HWK fellow), M. Grunwald ^{1,4} , H.-J. Brumsack ¹ | Pore water discharge controls nutrient cycling in tidal flat areas |
| 8 | J. Köster ¹ , T. Riedel ¹ , H. Freund ¹ , H.-J. Brumsack ¹ , J. Rullkötter ¹ | Sediment and pore water geochemistry of a subterranean estuary (Wadden Sea, Northern Germany) |
| 9 | H. Gao ³ , F. Schreiber ³ , G. Collins, M. M. Jensen, J.E. Kostka, G. Lavik ³ , D. de Beer ³ , M.M. Kuypers ³ | Aerobic denitrification in intertidal permeable Wadden Sea sediments |
| 10 | T.J. Shaw, J. Ferry, J. Burns (all Univ. of South Carolina, USA) | Elucidation of degradation pathways at oxic interfaces using combinatorial experimental designs |
| 11 | A. Johannsen ⁴ , K.-C. Emeis (IfBM, University of Hamburg) | Potential denitrification rates in German Wadden Sea sediments |
| 12 | J. Holstein ¹ , K. Wirtz ⁴ | Sensitivity analysis of nitrogen and carbon cycling in marine sediments |
| 13 | K. Lettmann ¹ , B.B. Jørgensen ³ , A. Khalili ³ | A mathematical model for estimating the reactivity of marine organic matter via measured oxidant consumption rates |
| 14 | G. Liebezeit ¹ , M.E. Böttcher ² , P.-L. Gehlken, G. Gerdes, L. Giani (Univ. Oldenburg), A. Heinze, J. Mederer, B. Schnetger ¹ , M. Segl (Univ. Bremen) | Methane-derived authigenic carbonates in modern intertidal surface sediments. |
| 15 | A.M. Al-Raei ³ , M.E. Böttcher ² | Seasonal and spatial dynamics of sulfide production and pore water gradients in intertidal surface sands of the southern North Sea |
| 16 | A.M. Al-Raei ³ , M.E. Böttcher, D. de Beer ³ , T. Ferdelman ³ | In-situ microsensor measurements of pore water sulfate gradients at different salinities |
| 17 | A.M. Al-Raei ³ , K. Bosselmann, M.E. Böttcher ² , B. Hespeneheide ³ , F. Tauber ² | Microbial sulfate reduction in temperate intertidal surface sediments: Controls by organic matter contents and temperature |
| 18 | A.M. Al-Raei ³ , M.E. Böttcher ² , M. Segl (Univ. Bremen), V. Volkenborn | Seasonal impact of lugworms (<i>Arenicola marina</i>) on biogeochemical processes and carbon isotope geochemistry of intertidal surface sediments: Results from an in-situ experiment |
| 19 | M.E. Böttcher ² , A.M. Al-Raei ³ , V. Heuer, K.-U. Hinrichs, M. Segl (all Univ. Bremen), Y. Hilker ¹ , B. Engelen ¹ | Methane and organic matter as sources for excess carbon dioxide in intertidal surface sands of the North Sea: Biogeochemical and stable isotope evidence |
| 20 | M.E. Böttcher ² , A. Lang | Biogeochemistry of Mn-Fe-S-C in a winter intertidal surface mud: Results of incubation experiments |
| 21 | F. Ebersbach ³ , A.M. Al-Raei ³ , M. Segl, H.-J. Brumsack ¹ , M.E. Böttcher ² | Oxidation of iron sulfides in intertidal surface sediments: Experimental and field evidence. |
| 22 | K. Bischof ³ , M. Mußmann ³ , B. Engelen ¹ , H. Cypionka ¹ , R. Amann ³ | The microbial diversity in East Frisian tidal flat sediments and its contribution to the cycling of methane and sulfate |
| 23 | A. Gittel (Univ. Aarhus, DK), S. Reischke ¹ , H. Cypionka ¹ , M. Könneke ¹ | Abundant and active sulfate reducers in the bioreactor Janssand |
| 24 | K. Zerjatke ³ , S. Lenk ³ , N. Musat ³ , R. Amann ³ , M. Mußmann ³ | MAR-FISH on Janssand sediments |
| 25 | H. Sass ¹ (& Cardiff University), H. Rütters ¹ | The influence of temperature on microbial communities in intertidal sediments |
| 26 | J. Graue ¹ , S. Kleindienst ¹ , B. Engelen ¹ , H. Cypionka ¹ | Combination of microcalorimetry and ribosome-based stable-isotope probing to identify fermentative microorganisms in anoxic tidal-flat sediments |
| 27 | D. Ziehe ¹ , G. Liebezeit ¹ | Amino acid racemization of intertidal flat sediments in the backbarrier area of Spiekeroog Island |

¹ ICBM, University of Oldenburg, ² IOW, Warnemünde, ³ MPI, Bremen, ⁴ GKSS, Geesthacht, ⁵ Institute for Physics, Univ. of Oldenburg, ⁶ Senckenberg Institute, Wilhelmshaven, ⁷ AWI, Bremerhaven