



Supplement of

Benthic alkalinity fluxes from coastal sediments of the Baltic and North seas: comparing approaches and identifying knowledge gaps

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Supplementary Figure S2. Net sediment-water fluxes (μ mol m⁻² hr⁻¹) and volumetric production and irrigation rates (mmol m⁻³ hr⁻¹) generated in PROFILE, presented for each sediment class, averaged across all sites in each basin.

Supplementary Table S1. Preservation techniques and measurement methods for each sampled parameter. Values denoted with an asterisk (*) were taken from Lipka 2017.

Parameter	Preservation technique	Method		Amelatical Duration (0/)	
		HE541	Other cruises	Analytical Precision (%)	
H_2S	Zn-acetate solution (5% (v/v)), freezing	Photometry		_*	
Ca	Filtration (< 0.45 μm), acidification with HNO ₃ solution (65% (<i>w/w</i>)), cooling	ICP-MS/MS	ICP-OES		2*
Fe				<5	6*
Mn					6*
Р					7*
HSO4 ⁻					10*
DIC	H. Cl. as het's a (ast) as a l'as	CF-irmMS		4*	
δ^{13} C-DIC	HgCl ₂ solution (sat.), cooling			2*	
ТА	0.1 N HCl, cooling	Potentiometric titration		2*	
NO ₃ -	freezina	Continuous flow analyzer (colorimetric analysis)		3	
$\mathrm{NH_{4}^{+}}$	ireezing			3	
Si	cooling			4	