

# Accepted Manuscript

Effects of *Zostera marina* rhizosphere and leaf detritus on the concentration and distribution of pore-water sulfide in marine sediments

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PII: S0272-7714(17)30875-2

DOI: [10.1016/j.ecss.2018.05.024](https://doi.org/10.1016/j.ecss.2018.05.024)

Reference: YECSS 5869

To appear in: *Estuarine, Coastal and Shelf Science*

Received Date: 18 September 2017

Revised Date: 19 April 2018

Accepted Date: 25 May 2018

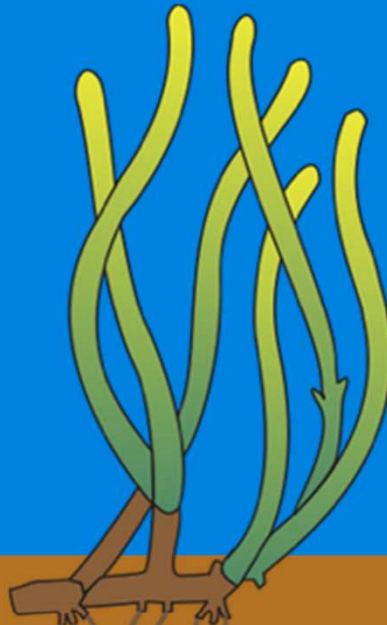
Please cite this article as: Simpson, A.G., Tripp, L., Shull, D.H., Yang, S., Effects of *Zostera marina* rhizosphere and leaf detritus on the concentration and distribution of pore-water sulfide in marine sediments, *Estuarine, Coastal and Shelf Science* (2018), doi: 10.1016/j.ecss.2018.05.024.

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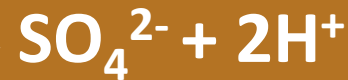
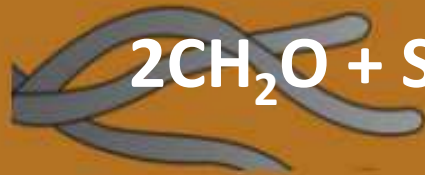
Eelgrass leaf detritus  
is buried in sediment



Eelgrass photosynthesis  
produces dissolved oxygen



Buried eelgrass detritus  
stimulates sulfate reduction



Oxygen diffuses from eelgrass  
root tips to oxidize sulfide

Sulfide reacts with Fe(II)  
to form iron sulfides

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