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2014

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:

$$\frac{\partial C}{\partial t} + \nabla C \vec{V} - \nabla (K \nabla C) = R_C - \frac{\partial}{\partial z} (w_C C) \quad (1)$$

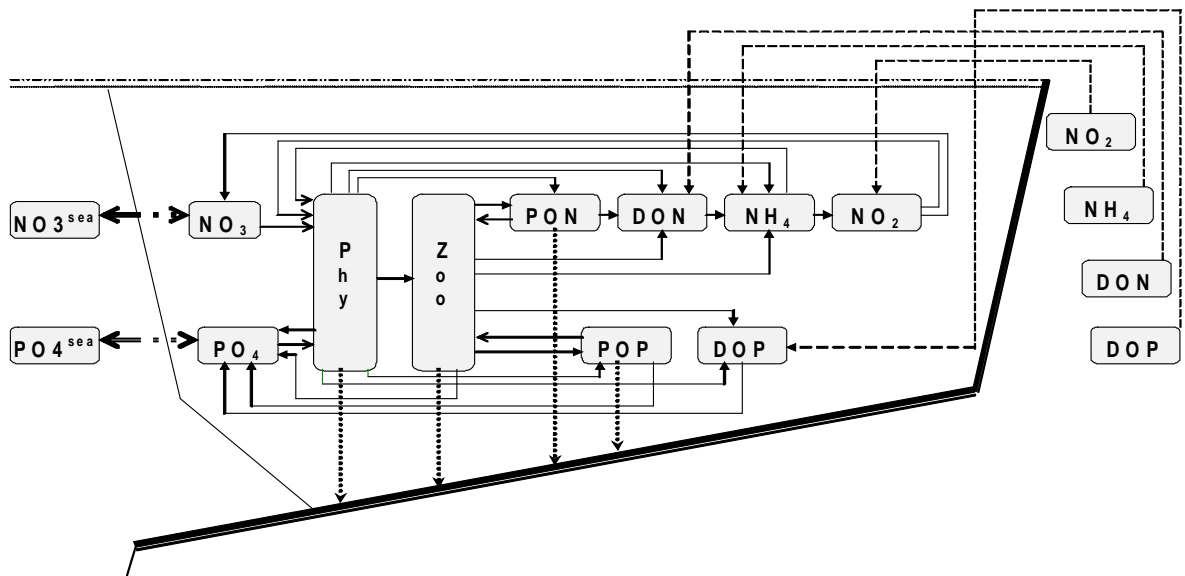
, - , R_C - (), , w_C -
C -
(
)

O-N-S-P-Mn

$H_2S, SO, SO_4, Mn_2, Mn_4, Fe_2, Fe_3$

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(Phy), (Zoo), : (PO₄),
 () -
 (DOP) - ; :

(NO₃),
(PON),

(NO₂),

(NO₄),
(DON).

$$\frac{dC_i}{dt} = R_{c_i} - SedC_i + Flux(C_{0_i} - C_i) + Pol(C_{P_i} - C_i), \quad (2)$$

: $i = \text{Phy, Zoo, PO}_4, \text{POP, DOP, NO}_3, \text{NO}_2, \text{NH}_4, \text{DON, PON}$; R_{c_i} - ; Sed - ; $Flux$ - ; $Flux$ - ; Pol - ; i -
($C_{0_i} - C_i$) - ; ($C_{P_i} - C_i$) - ; Pol ($C_{P_i} - C_i$) - ; i -
DOP, DON, NH₄, NO₂.

«PowerSim»,

1 , 0,001 .

Flux