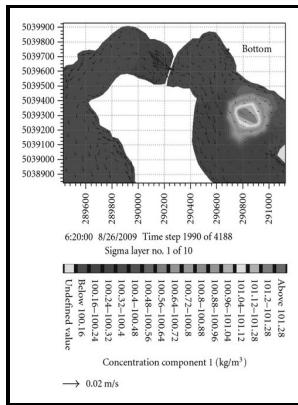


Numerical modelling of vertical circulation in lakes and estuaries

University of Birmingham - Drivers of Residual Estuarine Circulation in Tidally Energetic Estuaries: Straight and Irrotational Channels with Parabolic Cross Section in: Journal of Physical Oceanography Volume 41 Issue 3 (2011)



Description:

-numerical modelling of vertical circulation in lakes and estuaries

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Notes: Thesis (Ph.D.) - University of Birmingham, Dept of Civil Engineering.

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The Influence of Lateral Advection on the Residual Estuarine Circulation: A Numerical Modeling Study of the Hudson River Estuary in: Journal of Physical Oceanography Volume 39 Issue 1 (2009)

At the river mouth, Chapman condition is applied for surface elevation and Flather condition is used for barotropic velocity.

Numerical modelling of the Sydney Harbour Estuary, New South Wales: Lateral circulation and asymmetric vertical mixing

Furthermore, the sensitivity of the composition of estuarine circulation on bed roughness and the width of the estuary is tested. There is a clear spring-neap modulation of both the residual estuarine circulation and vertical density stratification.

Numerical Modelling of Barotropic Circulation Processes

The vertical eddy viscosity and diffusivity are computed using the $k-\omega$ turbulence closure. The vertical velocity scale represents 0.

A numerical model of density currents in estuaries of Siberian rivers

Solid square denotes the Dundee Dam.

Drivers of Residual Estuarine Circulation in Tidally Energetic Estuaries: Straight and Irrotational Channels with Parabolic Cross Section in: Journal of Physical Oceanography Volume 41 Issue 3 (2011)

In , we examine the driving forcing for cross-channel density gradient, the lateral asymmetry in vertical mixing, and the effects of lateral advection on estuarine exchange flow.

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