



# Utilisation of numerical and statistical techniques to describe sedimentary circulation patterns in the mouth of the Gironde estuary

Submitted by Emmanuel Lemoine on Tue, 09/16/2014 - 12:03

Titre	Utilisation of numerical and statistical techniques to describe sedimentary circulation patterns in the mouth of the Gironde estuary
Type de publication	Article de revue
Auteur	Mallet, Cyril [1], Howa, H�el�ene [2], Garlan, Thierry [3], Sottolichio, Aldo [4], Le Hir, Pierre [5], Michel, Denis [6]
Type	Article scientifique dans une revue � comit� de lecture
Ann�e	2000
Langue	Anglais
Date	2000
Num�ro	7
Pagination	491 - 497
Volume	331
Titre de la revue	Comptes Rendus de l'Acad�mie des Sciences - Series IIA - Earth and Planetary Science
ISSN	1251-8050
Mots-cl�s	dynamics [7], sediment [8]
R�sum� en anglais	Sediment distribution is well defined in the mouth of the Gironde estuary but the sediment dynamics is still poorly understood. The aim of this work is to analyse residual circulation of non-cohesive sediment due to the action of the main hydrodynamic factor: tidal currents. A depth-averaged numerical model emphasises the residual circulation of the Gironde estuary, which is characterised by residual tidal gyres. The comparison between sediment transport calculated from the numerical model and from a statistical analysis of the sedimentary distribution leads to the definition of a simple scheme of non-cohesive sediment circulation in the Gironde estuary's mouth.
URL de la notice	<a href="http://okina.univ-angers.fr/publications/ua3952">http://okina.univ-angers.fr/publications/ua3952</a> [9]
DOI	<a href="http://dx.doi.org/10.1016/S1251-8050(00)01437-3">10.1016/S1251-8050(00)01437-3</a> [10]
Lien vers le document	<a href="http://dx.doi.org/10.1016/S1251-8050">http://dx.doi.org/10.1016/S1251-8050</a> [11](00)01437-3

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- [11] <http://dx.doi.org/10.1016/S1251-8050>

Publié sur *Okina* (<http://okina.univ-angers.fr>)