Nonlinear Sciences > Chaotic Dynamics

The hidden geometry of ocean flows

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(Submitted on 1 Mar 2010)

We introduce a new global Lagrangian descriptor that is applied to flows with general time dependence (altimetric datasets). It succeeds in detecting simultaneously, with great accuracy, invariant manifolds, hyperbolic and non-hyperbolic flow regions.

Subjects:	**Chaotic Dynamics (nlin.CD)**
Cite as:	**arXiv:1003.0368v1 [nlin.CD]**

Submission history

From: Ana Mancho [view email]

[v1] Mon, 1 Mar 2010 15:05:17 GMT (1851kb,D)

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