

Transport Modelling near the Mouth of the River Ebre

**Marc Mestres⁽¹⁾, Joan Pau Sierra⁽¹⁾, Agustín Sánchez-
Arcilla⁽¹⁾, Margarita Díez⁽¹⁾, Manuel Espino⁽¹⁾, M.
Augusto Maidana⁽¹⁾, Marc A. García⁽¹⁾ and Andrés
Rodríguez⁽²⁾**

*⁽¹⁾ Laboratori d' Enginyeria Marítima, LIM-CIIRC, DEHMA,
ETSECCPB, Universitat Politècnica de Catalunya, Campus Nord, Mòdul D1, c/
Gran Capità s/n, 08034 Barcelona, Spain*

Tel +34-93-401 6468 Fax +34-93-401 1861 e-mail: lim@etseccpb.upc.es

*⁽²⁾ Laboratorio de Hidráulica, FCEFyN, Universidad Nacional de Córdoba, Ciudad
Universitaria, Av. Vélez Sarsfield 1600, 5000 Córdoba, Argentina*

Tel +54-51-334 148 Fax +54-51-334 148 e-mail: arodrig@gtwing.efn.uncor.edu

Abstract

A particle-type Lagrangian numerical model is used to simulate substance transport at and near the Ebre Delta, on the Northeast Spanish coast. In the first case, the spreading of an instantaneous release of tracer is modelled, and the results are compared to data measured from video images recorded immediately after the release; in the second case, the plume arising from the discharge of riverine freshwater into the sea is considered.