



First year of results from a mooring over a *Posidonia Oceanica* seagrass meadow (Corsica, France)

A.V. Borges (1), B. Delille (1), J.-M. Beckers (2), M. Grégoire (3), P. Lejeune (4), L.-S. Schiettecatte (1), W. Champenois (1)

(1) Unité d'Océanographie Chimique, Université de Liège, B-4000 Liège, Belgium (alberto.borges@ulg.ac.be), (2) Laboratoire d'Océanographie Physique, Université de Liège, B-4000 Liège, Belgium, (3) Laboratoire d'Océanologie, Université de Liège, B-4000 Liège, Belgium, (4) STARESO, Pointe Revellata, F-20260 Corse, France

We report the first year of results from a 10m deep mooring over a *Posidonia Oceanica* seagrass meadow (Corsica, France) where we deployed from August 2006 to August 2007 an array of 3 optodes, a fluorometer and a sensor for measurements of the partial pressure of CO₂ (pCO₂). The oxygen data are used to compute by mass balance ecosystem metabolic performance rates (gross primary production, community respiration, net community production). The comparison with rates derived from discrete benthic incubations (every 2 months) is very satisfactory. The pCO₂ data are used to assess the sink or source of atmospheric CO₂ of the *Posidonia Oceanica* seagrass meadow.