



Preliminary results of continuous oxygen measurement above a *Posidonia oceanica* seagrass bed in the Bay of Calvi (Corsica)

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

(1) Chemical Oceanography Unit, MARE, University of Liège, B4000 Belgium, (2) Département d'Astrophysique, Géophysique, Océanographie, B5, Université de Liège, Belgium

In the vicinity of the oceanographic STARESO station (Bay of Calvi, Corsica), three oxygen sensors were deployed in August 2006 on a mooring above a *Posidonia oceanica* meadow at depths of 9, 7 and 4 meters. The oxygen saturation level and temperature were measured every half hour at each depth. The aim of this research is to determine with a high temporal resolution the ecosystem metabolic performance (gross primary production and community respiration) based on the oxygen mass balance approach (Odum, 1956, *Limnology and Oceanography* 1:102-117). Here we present preliminary results, and discuss %O₂ variability from daily to seasonal time scales.