

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

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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.