

## Trophic structure and diversity of macro organisms associated with *Posidonia oceanica* litter in the bay of Calvi.

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### Abstract :

The purpose of this work was the evaluation of the trophic structure, diversity and small scale variation of macro organisms associated with *Posidonia oceanica* litter in the bay of Calvi (Corsica). Gammaridean Amphipods largely dominate our samples and *G. fucicola* accounts for 55% of the whole sample. Differences we observed between diversity and abundance at sample sites are probably caused by litter composition, degradation and conditions. Stable isotope analysis and gut contents showed that the food web is based on detritivores but with higher trophic levels and carnivore species. Most of these organisms probably play an important role in litter degradation and carbon flux from the litter, through the food webs.