

PUBLICATIONS A VENIR :

PALANQUES A., X. DURRIEU DE MADRON, P. PUIG, A. SÁNCHEZ-VIDAL, C. PASCUAL, J MARTÍN, A. CALAFAT, S. HEUSSNER, M.CANALS, Deep canyon and slope Sediment resuspension and transport in the canyons and open slope of the western Gulf of Lions during the 2006 intense cascading and open sea convection period. In préparation.

PUIG P., X. DURRIEU DE MADRON, K. SCHROEDER, A. KARAGEORGIS, J. SALAT, et al. Thick bottom nepheloid layers in the western Mediterranean generated by deep dense shelf water cascading. In préparation.

TAMBURINI C., M. CANALS, X. DURRIEU DE MADRON, D. LEFEVRE, S. MARTINI, F. D'ORTENZIO, A. ROBERT, P. TESTOR et al. Deep water formation triggers bioluminescence storms. In préparation

REFERENCES BIBLIOGRAPHIQUES :

PASQUAL C.***, A. SANCHEZ-VIDAL**, D. ZUÑIGA, A. CALAFAT**, M. CANALS**, X. DURRIEU DE MADRON*, P. PUIG***, S. HEUSSNER*, A. PALANQUES*** & N. DELSAUT* (2010) Flux and composition of settling particles across the continental margin of the Gulf of Lion: the role of dense shelf water cascading, *Biogeosciences*, 7, 217-231.

CANALS, M.**, R. DANOVARO, S. HEUSSNER*, V. LYKOUSIS, P. PUIG***, F. TRINCARDI, A.M. CALAFAT**, X. DURRIEU DE MADRON*, A. PALANQUES***, A. SANCHEZ-VIDAL** (2009) Cascades in Mediterranean submarine grand canyons, *Oceanography* 22, (1), 26-43.

SANCHEZ-VIDAL, A.**, C. PASQUAL, P. KERHERVE*, S. HEUSSNER*, A. CALAFAT**, A. PALANQUES***, X. DURRIEU DE MADRON*, M. CANALS** & P. PUIG*** (2009) Across margin export of organic matter by cascading events traced by stable isotopes, northwestern Mediterranean Sea. *Limnology and Oceanography*, 54(5), 2009, 1488-1500.

BONNIN J., S. HEUSSNER*, A. CALAFAT**, J. FABRES, A. PALANQUES***, X. DURRIEU DE MADRON*, M. CANALS**, P. PUIG***, J. AVRIL & N. DELSAUT (2008) Comparison of horizontal and downward particle fluxes across canyons of the Gulf of Lions (NW Mediterranean): Meteorological and hydrodynamical forcing. *Continental Shelf Research*, 28(15), 1957-1970

SANCHEZ-VIDAL A.**, C. PASQUAL, P. KERHERVÉ*, A. CALAFAT**, S. HEUSSNER*, A. PALANQUES***, X. DURRIEU DE MADRON*, M. CANALS** & P. PUIG*** (2008) Impact of dense shelf water cascading on the transfer of organic matter to the deep western Mediterranean basin. *Geophysical Research Letters*, 35, L05605, doi:10.1029/2007GL032825.

HEUSSNER S.*, DURRIEU de MADRON X.*, CALAFAT A.**, CANALS M.**, CARBONNE J.*, DELSAUT N.*, GUARRACINO M., SARAGONI G.* (2006). Spatial and temporal variability of downward particle fluxes on a continental slope: lessons from an 8-yr experiment in the Gulf of Lions (NW Mediterranean), *Mar. Geol.*

CANALS M.**, P. PUIG***, X. DURRIEU DE MADRON*, S. HEUSSNER*, A. PALANQUES***, J. FABRES (2006). Flushing submarine canyons. *Nature*, 444, 354-357.

PALANQUES A.***, DURRIEU de MADRON X.*, PUIG P.***, FABRES J., GUILLEN J., CALAFAT A.**, CANALS M.**, BONNIN J. (2006) Suspended sediment fluxes and transport processes in the Gulf of Lions submarine canyons. The role of storms and dense water cascading. *Mar. Geol.*

ROUSSIEZ V. Etude de la contamination par les métaux traces des sédiments marins du Golfe du Lion (Méditerranée Nord-Ouest, France). Thèse - Université de Perpignan en co-tutelle et l'Université Paul Sabatier de Toulouse, Septembre 2006. Dir : André MONACO* / Wolfgang LUDWIG*.

DURRIEU de MADRON X. *, S. HEUSSNER *, N. DELSAUT *, J. CARBONNE *, G. SARAGONI *, A. PALANQUES **, J. GUILLÉN, P. PUIG ***, A. CALAFAT **, J. FABRÉS and M. CANALS **, 2004. Database of the Gulf of Lions sediment trap/current meter network . Deliverable EuroStrataform N °38 (WP2), 12 p.

GUARRACINO M. Contrôle hydrodynamique du transfert de la matière particulaire sur la marge continentale du Golfe du Lion. Thèse - Spécialité Océanologie - Université de Perpignan, juillet 2004. Dir. : X. DURRIEU DE MADRON.

FERRE B. Comparaison de l'effet des tempêtes et du chalutage sur la resuspension et le transport de matières particulaires dans le Golfe du Lion. Thèse - Spécialité Océanologie - Université de Perpignan, le 20 novembre 2004. Dir. : A. MONACO* / X. DURRIEU DE MADRON*.

RADAKOVITCH O., J.A. SANCHEZ-CABEZA **, A. ABASSI, P. MASQUE & S. HEUSSNER* (2003) Meso and small-scale variations of particulate ²¹⁰Pb on the Northwestern Mediterranean continental margins. *Continental Shelf Research*, 23, 693-715.

ALLEMAN L.Y., B. HAMELIN, A.J. VÉRON, J-C. MIQUEL & S. HEUSSNER* (2000) Lead sources and transfer in the coastal Mediterranean: evidence from stable lead isotopes in marine particles. *Deep Sea Research II*, 47, 9-11, 2257-2279.

BOUILLON J., F. PAGÈS, J.-M. GILI, A. PALANQUES **, P. PUIG *** & S. HEUSSNER* (2000). Deep-water Hydromedusae from the Lacaze-Duthiers submarine canyon (Banyuls, northwestern Mediterranean) and description of two new genera, *Guillea* and *Parateclaia*. *Scientia Marina*, 64, Suppl. 1, 87-95.

CANALS M. **, CASAMOR J.L., LASTRAS G., MONACO A. *, ACOSTA J., BERNÉ S., LOUBRIEU B., WEAVER P.P.E., GREHAN A., DENNIELOU B. The role of canyons in strata formation. *Oceanography*, 17, 4, 53-63.

GILI J.M., F. PAGÈS, J. BOUILLON, A. PALANQUES **, P. PUIG **, S. HEUSSNER*, A. CALAFAT **, M. CANALS ** & A. MONACO* (2000) A multidisciplinary approach to the understanding of hydromedusan populations inhabiting Mediterranean submarine canyons. *Deep Sea Research Part I*, 47, 8, 1513-1533.

DURRIEU DE MADRON X. *, A. ABASSI, S. HEUSSNER*, A. MONACO*, J.C. ALOISI*, O. RADAKOVITCH*, P. GIRESE*, R. BUSCAIL* & P. KERHERVE* (2000). Particulate matter and organic carbon budgets for the Gulf of Lions (NW Mediterranean). *Oceanologica Acta*, 23, 6, 717-730.

GILI J.M., J. BOUILLON, F. PAGES, A. PALANQUES **, P. PUIG *** & S. HEUSSNER* (1998) Origin and biogeography of the deep-water Mediterranean Hydromedusae including the description of two new species collected in submarine canyons of Northwestern Mediterranean. *Scientia Marina*, 62, 113-134.

* : CEFREM – UMR 5110 CNRS

** : Universitat de Barcelona – Dept Estratigrafia, Paleontologia i Geociè. Marines

*** : CSIC – Consejo Superior de Investigaciones Científicas – ICM Geología Marina