

PUBLICATIONS ET THESES

1999

THOLOSAN O., GARCIN J., BIANCHI, A., (1999) Effects of hydrostatic pressure on microbial activity through a 2000 m-deep seawater column in the NW Mediterranean. *Marine Ecology Progress Series*, 183 : 49-57.

BIANCHI, A., GARCIN J., GORSKY, G., POULICEK, M., THOLOSAN O. (1999). Stimulation du potentiel de dégradation dans les eaux marines profondes par les bactéries barotolérantes colonisant les feces du plancton migrateur C. R. Acad. Sci. Paris, 322 : 1-8.

SICRE M.A., TERNOIS Y., MIQUEL J.C. and MARTY J.C. (1999). Alkenones in the Northwestern Mediterranean sea : interannual variability and vertical transfer. *Geophys. Res. Lett.*, 26 (12) : 1735-1738.

Bentaleb I, Grimalt J., Vidussi F., Marty J.- C., Martin V., Denis M., Hatté C. and M. Fontugne. (1999). The C37 alkenone record of seawater temperature during seasonal thermocline stratification. *Mar. Chem.* 64, 301-313

MIGON, C. & SANDRONI V. (1999). Phosphorus in rainwater : partitioning, inputs and impact on the surface coastal ocean. *Limnology and Oceanography*, 44, 4, 1160-1165.

Guerzoni, S., Chester, R., Dulac, F., Moulin, C., Herut, B., Lojze-Pilot., M.D., Measures, C., Migon, C., Molinaroli, E., Rossini, P., Saydam, C., Soudine, A. & Ziveri, P. (1999) - The role of atmospheric deposition in the biogeochemistry of the Mediterranean Sea. *Progress in Oceanography*., 44, 147-190.

GIULIANO L., DE DOMENICO M., DE DOMENICO E., M.G. HOFLE, YAKIMOV M.(1999). Identification of culturable oligotrophic bacteria within naturally occurring bacterioplankton communities of the Ligurian Sea by 16S rRNA sequencing and probing. *Microbial Ecology* 37 (2) 77-85

GIULIANO L., DE DOMENICO M., YAKIMOV M. (sous presse). Distribution of representative oligotrophic bacteria in a pelagic marine environment (Ligurian Sea) by in situ hybridization with rRNA-targeted, fluorescently labelled oligonucleotides. in " STRUCTURE AND PROCESSES IN THE MEDITERRANEAN ECOSYSTEMS" F.M. Faranda, L. Guglielmo, G. Spezie (eds), Springer, Berlin Heidelberg

Bianchi, M., Fosset, C. & P. Conan, (1999). Nitrification rates in the NW Mediterranean sea. *Aquat. Microb. Ecol.* 17, 267-278.

BIANCHI, A., GARCIN J., THOLOSAN O. (1999). A high-pressure serial sampler to measure microbial activity in the deep sea. *Deep Sea Res. I*, 46, 2129-2142.

STRIBY L., LAFONT P. & GOUTX M., 1999. Improvement in the Iatroscan thin_layer chromatographic_flame ionisation detection analysis of marine lipids. Separation and quantitation of monoacylglycerols and diacylglycerols in standards and natural samples. *J. Chromatogr A*, 849, 371_380.

2000

Pérez, M.T., Dolan, J.R., Vidussi, F. and E. Fukai.(2000) Diel vertical distribution of planktonic ciliates within the surface layer of the NW Mediterranean (May 1995). *Deep-Sea Res. I* ,47, 479-503.

Stemmann, L., Picheral, M. and G. Gorsky (2000). Diel changes in the vertical distribution of suspended particulate matter in the NW Mediterranean Sea investigated with the Underwater Video Profiler. *Deep-Sea Res. I*, 47, 505-531.

Andersen, V. and L. Prieur. (2000) One-month study in the open NW Mediterranean Sea (DYNAPROC experiment, May 1995). Overview of the hydrobiogeochemical structured and effects of wind events. *Deep-Sea Res. I*, 47, 397-422.

Copin-Montégut, C. (2000). Consumption and production on scales of a few days of inorganic carbon, nitrate and oxygen by the planktonic community : results of continuous measurements at the Dyfamed Station in the northwestern Mediterranean Sea (May 1995). *Deep-Sea Res. I*, 47, 447-477.

Goutx, M., Momzikoff, A., Striby, L., ANDERSEN V., Marty, J.-C. and I. Vescovali. (2000). High frequency fluxes of labile compounds in the central Ligurian Sea, northwestern Mediterranean. *Deep-Sea Res. I*, 47, 533-556.

Vidussi, F., Marty, J.-C. and J. Chiavérini.(2000). Short-term evolution of phytoplankton pigment distributions during the transition from spring bloom to oligotrophy in the Mediterranean Sea. *Deep-Sea Res. I*, 47, 423-445.

GORSKY, G., PICHERAL, M. et STEMMANN, L. (2000) Use of the Underwater Video Profiler for the Study of Aggregate Dynamics in the North Mediterranean. *Estuar.Coast.Shelf Sci.*, 50(1): 121-128.

Migon, C., Gentili, B. & Journel, B. (2000) - Statistical analysis of the concentrations of 12 metals in the Ligurian atmospheric aerosol. *Oceanologica Acta*, 23, 37-45..

CLAUSTRE H., FELL F., OUBELKHEIR K., PRIEUR L., SCIANDRA A., GENTILLI B. & BABIN M., 2000. Continuous monitoring of surface optical properties across a geostrophic front : biogeochemical inferences. *Limnol. Oceanogr.*, 45, 2 : 309-321.

BELVISO S., CHRISTAKI U., VIDUSSI F., MARTY J.C., VILA REIG M. and DELGADO M., 2000. Diel variations of the DMSP-to-chlorophyll a ratio in Northwestern Mediterranean surface waters. *J. Mar. Sys.*, 25 : 119-128.

Denis, M., Martin, V. & V. Andersen. 2000. Short-term variation of the vertical distribution of cyanobacteria in the open Mediterranean Sea. *Scientia Marina*, 64, 157-163

Sempéré, R., Yoro, S.C., F. Van Wambeke & B. CHARRIERE, 2000. Microbial decomposition of large organic particles in the northwestern Mediterranean Sea: an experimental approach. *Mar. Ecol. Prog. Ser.*, 198 : 61-72.

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

HOOD, E.M., and L.MERLIVAT. (2000) Annual to interannual variations of fCO₂ in the northwestern Mediterranean Sea : Results from hourly measurements made by CARIOCA buoys (1995-1997), *J.Mar.Res.*, accepted..

SARTHOU G. et JEANDEL C. (2000), Seasonal variations of iron concentrations in the Ligurian Sea and iron budget in the western Mediterranean, *Marine Chemistry*.(sous presse)

ARRAES-MESCOFF R., ROY-BARMAN M., COPPOLA L., SOUHAUT M., TACHIKAWA K. et JEANDEL C. (2000) The behavior of Al, Mn, Ba, Sr, REE and Th isotopes during in vitro degradation of large marine particles. *Mar. Chem.* (sous presse)

MIGON, C., SANDRONI, V. & BETHOUX, J.P. – Atmospheric inputs of phosphorus: major contribution of anthropogenic sources in the northwest Mediterranean. *Marine Environmental Research*. (Soumis)

Van Wambeke, F., Goutx, M., Striby, L., Sempéré, R. & F. Vidussi. Bacterial dynamics during the transition from spring bloom to oligotrophy in the Northwestern Mediterranean Sea : relationships with particulate detritus and dissolved organic matter. *Mar. Ecol. Prog. Ser.* (accepté).

BELVISO, S., H. CLAUSTRE, and J.-C. MARTY Evaluation of the utility of chemo-taxonomic pigments as a surrogate for particulate DMSP. *Limnol. Oceanogr.* (accepté)

HOOD, E.M., and L.MERLIVAT., Annual to interannual variations of fCO₂ in the northwestern Mediterranean Sea: high frequency time series data from CARIOCA buoys (1995-1997), *J.Mar.Res.*, (submitted) 1999

Andersen, V., Nival, P., Capparoy, P. & Gubanova, A. Zooplankton community during the transition from spring bloom to oligotrophy in the open NW Mediterranean and effects of wind events. 1 - Abundance and specific composition. *J. Plankton Res.* (en révision).

Andersen, V., Gubanova, A., NIVAL P., & Ruellet, T. Zooplankton community during the transition from spring bloom to oligotrophy in the open NW Mediterranean and effects of wind events. 2 - Vertical distributions and migrations . *J. Plankton Res.* (en révision).

Bentaleb I, Grimalt J., Vidussi F. et J.-C. Marty. Vertical distribution of suspended particulate sterols during seasonal thermocline stratification. *Deep-Sea Res. I* (en révision)

CHIFFLET, M., ANDERSEN, V., PRIEUR, L. and I. DEKEYSER. One-dimensional model of short term dynamics of the pelagic ecosystem in the NW Mediterranean Sea. Effects of wind events. *J. Mar. Systems* (en révision).

Denis, M., Martin, V., Momzikoff, A., Gondry, G., Stemmann, L., Demers, S., Gorsky, G. & V. Andersen. Short-term variation of vertical distributions of the biological pump in the open northwestern Mediterranean Sea. *Aquat. Microb. Ecol.* (soumis).

CUNY P., MARTY J.C., CHIAVERINI J., VESCOVALI I., RAPHEL D. and RONTANI J.F. One-year seasonal survey of the chlorophyll photodegradation process in the north western Mediterranean sea. *Deep Sea Res.* (soumis)

ROY-BARMAN M., COPPOLA L. and SOUHAUT M. Thorium isotopes in the western Mediterranean sea: an insight into the marine particle dynamics. *Deep Sea Res.* (en révision).

FOUILLAND, E. , COURTIES, C. and C. DESCOLAS-GROS. Size-fractionated carboxylase activities during a 32h cycle at 30m depth in the northwestern Mediterranean Sea after an episodic wind event. *J. Plankton Res.* (Soumis)

MARI X., S. BEAUVAIS, R. LEMEE & M.L. PEDROTTI. Non-Redfield carbon-to-nitrogen ratio of TEP in the North-Western Mediterranean Sea: A new degree of liberty into the biological pump model. *Limnology & Oceanography* (Soumis)

THESES

PEREZ, M., 1999. Relations trophiques au sein du réseau microbien en Méditerranée nord occidentale: importance de la prédation et des ressources. Thèse de Doctorat de l'Université Paris VI, Océanologie Biologique et Environnement Marin.

Tholosan O. 1999. Activités microbiennes dans les eaux et les sédiments profonds. Rôle de la pression hydrostatique. Université Aix-Marseille II. Soutenue le 02 février 1999.

SANDRONI Valérie. 2000. Apports atmosphériques en mer Ligure : modes de dépôt, impact sur la couche marine de surface implication dans les flux marins. Thèse Université de Corse. 145p.

R. ARRAES-MESCOFF, 2000 Etude du comportement des particules dans la colonne d'eau par deux approches conjointes: les traceurs géochimiques et la modélisation. Université P. Sabatier (Toulouse)

STRIBY L., 2000. Biogéochimie de la matière organique dans deux écosystèmes marins. Cas d'une structure physique unidimensionnelle verticale (Mer Ligure) et d'une structure physique frontale (front Almería_Oran). Variations spatio-temporelles de la fraction lipidique à petite échelle. Thèse de Doctorat de l'Université de la Méditerranée (Aix-Marseille II)

THESES EN COURS

Taboada Juan J. Thèse Laboratoire de Physique et Chimie Marines, Paris, et Grupo de Fisica no Lineal, Santiago de Compostela

VESCOVALI Isabelle . Production et devenir de la matière organique en Méditerranée : dégradation des pigments.

OUBELKHEIR Kadija. Biogéochimie capteurs optiques

BEGOVIC Milena Le cycle du CO₂ en Méditerranée

RIDAME Céline. Apports atmosphériques sahariens : Le phosphore .

CHIFFLET, M. Modélisation de l'écosystème pélagique marin. Application à l'étude des processus rapides. Thèse de Doctorat de l'Université de la Méditerranée (Aix-Marseille II), Sciences de l'Environnement : Système Terre (Responsables scientifiques : V. Andersen et I. Dekeyser; Laboratoire d'accueil : ESA 7076, Observatoire Océanologique de Villefranche-sur-Mer)

Tamburini Christian La dégradation des matières organiques par les microflores profondes : de la mesure des vitesses potentielles de minéralisation au flux de CO₂ généré *in situ*.

BEAUVAIS S. Contenu en carbone et distribution des TEP