

# Bibliographie

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- Baines S.B., Pace M.L. (1991) The production of dissolved organic matter by phytoplankton and its importance to bacteria : Patterns across marine and freshwater systems. *Limnol. Oceanogr.* **36** : 1078-1090
- Bender M., Orchardo J., Dickson M.L., Barber R., Lindley S. (1999) In vitro O<sub>2</sub> fluxes compared with <sup>14</sup>C production and other rates terms during JGOFS Equatorial Pacific experiment. *Deep-Sea Res. (1 Oceanogr. Res. Pap.)* **46-4** : 637-654
- Billen G. (1991) Protein degradation in aquatic environments. In *Microbial enzymes in aquatic environments (edited by Chrost R., Springer)*, **chapter 7** : 122-142
- Billen G., Becquevort S. (1991) Phytoplankton-bacteria relationship in the Antarctic marine ecosystem. In *Proceedings of the Pro Mare Symposium on Polar Marine Ecology (E. Sakshaug, C.C.E. Hopkins, and N.A. Oritsland, Eds)*, *Polar Res.* **10** : 245-253
- Binet D., Le Borgne R. (1996) The coastal station of Noumea: ten years of observations about the hydrology and pelagos of the south-west lagoon of New-Caledonia. *Arch. Sci. Mer Oceanogr. Biol. Mar. Cent. Noumea ORSTOM, ORSTOM, Noumea (France)* **37 pp**
- Bujan S. (2000) Modélisation Biogéochimique du cycle du carbone et de l'azote dans les écosystèmes côtiers tropicaux sous influences terrigène et anthropique, application au lagon de Nouméa (Nouvelle-Calédonie). *Thèse de doctorat de l'Université d'Aix – Marseille II.* **204 pp.**
- Bujan S., Grenz C., Fichez R., Douillet P. (2000) Evolution saisonnière du cycle biogéochimique dans le lagon sud-ouest de Nouvelle-Calédonie. Application d'un modèle compartimental. *C.R. Acad. Sci. Paris, Sciences de la Vie*, **323** : 225-233
- Caperon J., Meyer J. (1972) Nitrogen-limited growth of marine phytoplankton. I. Changes in population characteristics with steady state growth rate. *Deep-Sea Res.* **19A** : 601-618
- Carlson C.A., Ducklow H.W., Hansell D.A., Smith W.O. (1998) Organic carbon partitioning during spring phytoplankton blooms in the Ross Sea polynya and the Sargasso Sea. *Limnol Oceanogr.* **43** : 375-386
- Caron D.A., Peele E.R., Lim E.L., Dennett M.R. (1999) Picoplankton and nanoplankton and their trophic coupling in surface waters of the Sargasso Sea south of Bermuda. *Limnol. Oceanogr.* **44** : 259-272
- Cho B.C., Azam F. (1988) Major role of bacteria in biogeochemical fluxes in the ocean's interior. *Nature* **332** : 441-443
- Copping, A.E., Lorenzen, C.J. (1980) Carbon budget of a marine phytoplankton-herbivore system with carbon-14 as a tracer. *Limnol. Oceanogr.* **25-5** : 873-882
- Christian J.R., Anderson T.R. (2002) Modeling Dissolved Organic Matter in the ocean. In *Biogeochemistry of marine dissolved organic matter (DA Hansell, CA Carlson, eds.) Academic Press* **chapter 16** : 717-756
- Dagg, M.J. (1976) Complete carbon and nitrogen budgets for the carnivorous amphipod, *Calliopius laeviusculus* (Kroyer). *Int. Rev. Gesamt. Hydrobiol.* **61-3** : 297-357
- Del Giorgio P., Cole J.J. (1998) Bacterial growth efficiency in natural aquatic systems. *Annu. Rev. Ecol. Syst.* **29** : 503-541
- Douillet P. (1998) Tidal dynamics of the south-west lagoon of New Caledonia : observations and 2D numerical modelling. *Oceanol. Acta.* **21** : 69-79

- Douillet P., Ouillon S., Cordier E. (2001) A numerical model for fine suspended sediment transport in the southwest lagoon of New Caledonia. *Coral Reefs* **20** : 361-372
- Fasham M.J.R., Ducklow H.W., McKelvie S.M. (1990) A nitrogen-based model of plankton dynamics in the oceanic mixed layer. *J. Mar. Res.* **48** : 591-639
- Fasham M.J.R., Boyd P.W., Savidge G. (1999) Modeling the relative contributions of autotrophs and heterotrophs to carbon flow at a Lagrangian JGOFS station in the Northeast Atlantic: the importance of DOC. *Limnol Oceanogr.* **44** : 80-94
- Fuhrman J.A. (1999) Marine viruses and their biogeochemical and ecological effects. *Nature* **399** : 541-548
- Fuhrman J.A., Sleeter T.D., Carlson C.A., Proctor L.M. (1989) Dominance of bacterial biomass in the Sargasso Sea and its ecological implications. *Mar. Ecol. Prog. Ser.* **57** : 207-218.
- Fukuda R., Ogawa H., Nagata T., Koike I. (1998) Direct determination of carbon and nitrogen content of natural bacterial assemblages in marine environments. *Appl. Environ. Microbiol.* **64**: 3352-3358
- Gerber R.P., Gerber M.B. (1979) Ingestion of natural particulate organic matter and subsequent assimilation, respiration and growth by tropical lagoon zooplankton. *Mar. Biol.* **52-1**: 33-43
- Goosen N.K., Vanrijswijk P., Debie M., Peene J., Kromkamp J. (1997) Bacterioplankton abundance and production and nanozooplankton abundance in Kenyan coastal waters (Western Indian Ocean). *Deep-Sea Res.* **44** : 1235-1250
- Harmon R., Challenor P. (1997) A Markov chain Monte Carlo method for estimation and assimilation into models. *Ecol. Mod.* **101** : 41-59
- Heldal M., Norland S., Fagerbakke K.M., Thingstad F., Bratbak G. (1996) The elemental composition of bacteria: a signature of growth conditions? *Mar. Poll. Bull.* **33** : 3-9
- Jacquet, S. (2001) Importance comparée des biomasses et productions bactérienne et primaire planctoniques et leurs relations avec les variables physico-chimiques dans le Lagon Sud-Ouest de Nouvelle-Calédonie. *Rapport de DEA de l'Université Pierre et Marie Curie - Paris VI, option « environnement marin et biogéochimie » 31 pp. + annexes*
- Jürgens K., Gasol J., Vaqué D. (2000) Bacteria-flagellate coupling in microcosm experiments in the Central Atlantic Ocean. *J. Exp. Mar. Biol. Ecol.* **245** : 127-147
- Kérouel R., Aminot A. (1997) Fluorometric determination of ammonia in sea and estuarine waters by direct segmented flow analysis. *Mar. Chem.* **57** : 265-275
- Kirchman D.L. (1994) The uptake of inorganic nutrients by heterotrophic bacteria. *Microb. Ecol.* **28** : 255-271
- Kirchman D.L. (1990) Limitation of bacterial growth by dissolved organic matter in the subarctic Pacific. *Mar. Ecol. Prog. Ser.* **62** : 47-54
- Kirchman D.L. (2000) Uptake and regeneration of inorganic nutrients by marine heterotrophic bacteria. In *Microbial Ecology of the Oceans (edited by DL Kirchman)*, **chapter 9** : 261-288
- Kirchman D.L., Rich J.H. (1997) Regulation of bacterial growth rates by dissolved organic carbon and temperature in the equatorial Pacific Ocean. *Microb. Ecol.* **33** : 11-20
- Kremer P. (1978) Respiration and excretion by the ctenophore *Mnemiopsis leydyi*. *Mar. Biol.* **44** : 43-50

- Labrosse P., Fichez R., Farman R., Adams T. (2000) New Caledonia. In *Seas at the Millenium, an environmental evaluation*. Sheppard C. (ed.), Elsevier, Amsterdam. Vol. 2, p. 723-736.
- Landry M.R., Constantinou J., Kirshtein J. (1995) Microzooplankton grazing in the central equatorial Pacific during February and August, 1992. *Deep-Sea Res.* **42** : 657-671
- Le Borgne R. (1978) Evaluation de la production secondaire planctonique en milieu océanique par la méthode des rapports C/N/P. *Oceanol. Acta* **1** : 107-118
- Le Borgne R., Roger C. (1983) Caractéristiques de la composition et de la physiologie des peuplements hauturiers de zooplancton et micronecton du Golfe de Guinée. *Océanographie tropicale* **XVIII (2)** : 381-418
- Le Borgne R. (1986) The release of soluble end products of metabolism. In *The biological Chemistry of Marine Copepods* (edited by Corner E.D.S & O'HARA S.C.M, Oxford University Press) **Chapter 3** :109-164
- Le Borgne R., Blanchot J., Charpy L. (1989) Zooplankton of the atoll of Tikehau (Tuamotu Archipelago) and its relations with particulate matter. (Le zooplancton de l'atoll de Tikehau (archipel des Tuamotu) et ses relations avec la matière particulaire). *Mar. Biol.* **102** : 341-353
- Le Borgne R., Rodier M., Le Bouteiller A., Kulbicki M. (1997) Plankton biomass and production in an open atoll lagoon : Uvea, New Caledonia. *J. Exp. Mar. Biol. Ecol.* **212** : 187-210
- Lee S., Fuhrman J.A. (1987) Relationship between biovolume and biomass of naturally derived marine bacterioplankton. *Appl. Environ. Microbiol.* **53** : 1298-1303
- Lynch M., Weider L.J., Lampert W. (1986) Measurement of the carbon balance in Daphnia. *Limnol. Oceanogr.* **31** : 17-33
- Miller W.L., Moran M.A. (1997) Interaction of photochemical and microbial processes in the degradation of refractory dissolved organic matter from a coastal marine environment. *Limnol. Oceanogr.* **42** : 1317-1324
- Murphy J., Riley J.P. (1962) A modified single solution method for the determination of phosphate in natural waters. *Anal. Chim. Acta.* **27** : 31-36
- Nagata T. (2000) Production mechanisms of Dissolved Organic Matter. In *Microbial Ecology of the Oceans* (edited by DL Kirchman), **chapter 5** : 121-152
- Panikov N.S. (1995) *Microbial Growth Kinetics*. Chapman and Hall, London
- Pinazo C., Marsaleix P., Millet B., Estournel C., Kondrachoff V., Véhil R. (2001) Phytoplankton Variability in Summer in the Northwestern Mediterranean: Modelling of the Wind and Freshwater Impacts. *J. Coastal Res.* **17-1** : 146-161
- Pinazo C., Marsaleix P., Millet B., Estournel C., Véhil R. (1996) Spatial and temporal variability of phytoplankton biomass in upwelling areas of the northwestern Mediterranean : a coupled physical and biogeochemical modelling approach. *J. Marine Syst.* **7** : 161-191
- Porter K.G., Feig Y.S. (1980) The use of DAPI for identifying and counting aquatic microflora. *Limnol. Oceanogr.* **25** : 943-948
- Raimbault P., Slawyk G., Coste B., Fry J. (1990) Feasibility of using an automated colorimetric procedure for the determination of seawater nitrate in the 0 to 100 nM range : examples from field and culture. *Mar Ecol. Prog. Ser.* **104** : 347-351
- Small L.F., Fowler S.W., Moore S.A., Rosa J. (1983) Dissolved and fecal pellet carbon and nitrogen release by zooplankton in tropical waters. *Deep-Sea Res.* **30** : 1199-1220

- Steemann-Nielsen E. (1951) Measurement of the production of the organic matter in the sea by mean of carbon 14. *Nature* **86** : 103-110
- Steinberg D.K., Carlson C.A., Bates N.R., Goldthwait, S.A., Madin L.P., Michaels A.F. (2000) Zooplankton vertical migration and the active transport of dissolved organic and inorganic carbon in the Sargasso Sea. *Deep-Sea Res.* **47** : 137-158
- Strom L. (2000) Bacterivory : interactions between bacteria and their grazers. In *Microbial Ecology of the Oceans (edited by DL Kirchman)*, **chapter 12** : 351-386
- Tett P. (1987) Modelling the growth and distribution of marine microplankton. *Soc. Gen. Microbiol. Symp.* **41** : 387-425
- Thingstad F. (1987) Utilization of N, P and organic C by heterotrophic bacteria. I. Outline of a chemostat theory with a consistent concept of 'maintenance' metabolism. *Mar. Ecol. Prog. Ser.* **35** : 99-109.
- Torréon J.P., Dufour P. (1996) Bacterioplankton production determined by DNA synthesis, protein synthesis, and frequency of dividing cells in Tuamotu atoll lagoons and surrounding ocean. *Microb. Ecol.* **32** : 185-202
- Weisse T. (1989) The microbial loop in the Red Sea : dynamics of pelagic bacteria and heterotrophic nanoflagellates. *Mar. Ecol. Prog. Ser.* **55** : 241-250
- Williams P.J. LeB. (2000) Heterotrophic bacteria and the dynamics of dissolved organic material. In *Microbial Ecology of the Oceans (edited by DL Kirchman)*, **chapter 6** : 153-200