

Publication MIO : Márcio Murilo Barboza Tenório, Cécile Dupouy (MIO), Martine Rodier, Jacques Neveux - *Trichodesmium* and other planktonic cyanobacteria in New Caledonian waters (SW tropical Pacific) during an El Niño episode

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ABSTRACT : Contributions of filamentous and picoplanktonic cyanobacteria to the phytoplankton community structure were examined in New Caledonian waters during the 2001-2003 El Niño period at 2 ocean stations (Loyalty Channel and Santal Bay) and 1 coral-reef lagoon station (Ouinne). Morphometric characteristics of diazotrophic filamentous cyanobacteria are given, as well as the seasonal and inter-annual variations of their surface areas and integrated abundances. *Trichodesmium tenue* and *T. thiebautii* were the dominant species followed by *T. erythraeum*, altogether accounting for more than 51-80% of the biomass of the free-living filamentous cyanobacteria. *Katagnymene* spp. accounted for a smaller percentage (

KEY WORDS : *Trichodesmium* · Filamentous cyanobacteria · Community structure · Microscopy · Picoplankton · Pigments · Loyalty Islands · Coral-reef lagoon · El Niño

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