



Cervantes Duarte, R., S. López López, F. Aguirre Bahena, E. González Rodríguez & S. Futema Jiménez (2012). Relevancia de fuentes nitrogenadas nuevas y regeneradas en la columna de agua en Bahía Magdalena (SO Península de Baja California), México. *Revista de Biología Marina y Oceanografía*, 47(3): 587-592.

Relevancia de fuentes nitrogenadas nuevas y regeneradas en la columna de agua en Bahía Magdalena (SO Península de Baja California), México

Rafael Cervantes Duarte, Silverio López López, Fernando Aguirre Bahena, Eduardo González Rodríguez & Sonia Futema Jiménez

Six bimonthly surveys during 2007 were carried out in Magdalena Bay (Mexico) during spring tide conditions. Spatiotemporal variations of temperature, salinity, nitrite, nitrate, ammonium, phosphate and chlorophyll-*a* were analyzed in the Bay. During spring-early summer (April-June) seawaters were colder and richer in new nutrients and chlorophyll-*a* than autumn and winter (February and October-December). The coastal upwelling during spring-early summer contribuyes with new nutrients to the Bay, whereas bottom-recycled nutrients should be the main input during the autumn-winter period. Thus, nutrients availability, dissolved inorganic nitrogen and phosphate, promote a seasonal pattern of phytoplankton biomass in Magdalena Bay.

Palabras clave: chlorophyll-*a*, New nutrient, regenerated nutrient, coastal upwelling

Para obtener copia del documento contacta con el autor (rcervan@ipn.mx) o con el personal de la biblioteca (bibliocicimar@ipn.mx).