

**ICES/PICES 6ZPS 2016/ S3**

**BIODIVERSITY OF COPEPODS IN BAHIA DE LA PAZ, MEXICO.**

S, Hernández-Trujillo, R. Palomares-García & G.M. Esqueda-Escárcega  
IPN-CICIMAR. Plankton Department  
La Paz, B.C.S. México.

**ABSTRACT**

Combining data mining and original data available we compile and analyze the copepod community in order to define a base line of diversity and abundance, which represents one of the most important sources of secondary production in La Paz Bay. We found five orders and the most diverse was Calanoida followed by Cyclopoida, Harpacticoida, Siphonostomatoida and Monstrilloida. Regarding to richness species we could establish in 146 copepod species, 52% more than previous reports on the bay; over the period 2000-2010, the copepod community was in an environment where the concentration of chlorophyll *a* had a negative trend, coinciding with increased sea surface temperature. Five copepod species (size <200 microns) for the first time were registered to the area; this copepod size fraction had not been analyzed in previous studies in La Paz Bay. The high presence of species of tropical affinity is associated with tropical waters influence coming from the Gulf of California and equatorial waters.

Key word: Copepods, La Paz Bay, biodiversity

Contact author: Sergio Hernández Trujillo, IPN-CICIMAR, [strujil@ipn.mx](mailto:strujil@ipn.mx)