{rokbox title=|Study area showing the location of Puerto América marina (Cádiz), Atlantic Ocean, and Palma marina, Mediterranean Sea :: Image: Authors| thumb=|images/stories/ieo/imagenespublicaciones/centro-oceanografico-baleares-ieo-csic-role-eudendrium-racemosum-as-basibiont-guerra-et-al-2025-thumb.jpg|}images/stories/ieo/imagenespublicaciones/centro-oceanografico-baleares-ieo-csic-role-eudendrium-racemosum-as-basibiont-guerra-et-al-2025.jpg{/rokbox}

J.M. Guerra-García, C. Navarro-Barranco, **M. Vázquez-Luis**, J. Moreira, M. César, M.E. Márquez, P. Saenz-Arias, M. Ros, 2025.

The role of the hydroid *Eudendrium racemosum* (Cavolini, 1785) (Cnidaria: Hydrozoa) as basibiont for exotic species in marinas.

Estuarine, Coastal and Shelf Science 315 (2025) 109180.
https://doi.org/10.1016/j.ecss.2025.109180

Abstract: Effective management of non-indigenous species (NIS) in marinas requires accurate knowledge of their biodiversity. A temporal study of macrofaunal assemblages associated to the native arborescent hydroid *Eudendrium racemosum* was conducted in two marinas with intense maritime traffic on the Spanish Atlantic and Mediterranean coasts. While only 7 (all peracarid crustaceans) of the 52 species were NIS, they frequently dominated macrofaunal assemblages in abundance. Factors affecting these assemblages were primarily hydroid density and water turbidity, and secondarily water salinity and temperature. The relative contribution of NIS to the community, both in number of species and abundance, was significantly higher in Palma (Mediterranean) than in Cádiz (Atlantic) during the entire year. The structure of the total and NIS community also differed between marinas, highlighting the local singularity of these human-made environments. Despite the lack of basibiont specificity of most exotic epibionts, E. racemosum seems to facilitate the proliferation of the exotic amphipod *Paracaprella pusilla* compared with other hosts, probably due to mutualistic relationships.

Keywords: Epifauna, Peracarids, Crustacea, NIS, Seasonal, Facilitation