

Fishing Isotopes: The contribution of Icthyoarchaeology and ISotopic analyses in the study of the Iberian Medieval and Modern Age fisheries (6th/17th CE)

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Arturo Morales-Muñiz, Zohar Irit, Laura Llorente Rodríguez, Leïa Mion, Carlos Fernández Rodriguez, et al.. Fishing Isotopes: The contribution of Icthyoarchaeology and ISotopic analyses in the study of the Iberian Medieval and Modern Age fisheries (6th/17th CE). SEA, FISH & SUN. Archaeological & isotopic approach of aquatic resources acquisition, ANDRE Tatiana; MION Leïa, Oct 2021, Maison Méditerranéenne des Sciences de l'Homme, Aix-en-Provence, France. hal-03376772

HAL Id: hal-03376772 https://hal.science/hal-03376772v1

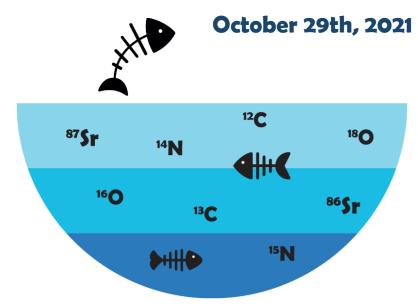
Submitted on 13 Oct 2021

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WORKSHOP SEA, FISH & SUN



Archaeological & isotopic approach of aquatic resources acquisition



ABSTRACT

Fishing Isotopes: The contribution of Icthyoarchaeology and ISotopic analyses in the study of the Iberian Medieval and Modern Age fisheries (6th/17th CE)

Arturo MORALES-MUÑIZ, Irit ZOHAR, Laura LLORENTE-RODRIGUEZ, Leïa MION, Carlos FERNÁNDEZ-RODRIGUEZ, María José LUCIÁÑEZ-SÁNCHEZ, Marta DÍAZ-ZORITA, Tatiana ANDRÉ, Eufrasia ROSELLÓ-IZQUIERDO

This project is the first systematic analysis of the Iberian Peninsula fisheries in the millennium spanning from 6th/7th CE until 17th CE addressing the issues through the analyses of archaeological fish remains. This time window allows one to assess the diagnostic features of fish assemblages from Byzantine, Visigoth, Muslim and Christian deposits from a cultural perspective never before attempted. From a spatial standpoint, a strategic selection of sites allows one to assess whether latitude and longitude (i.e. Atlantic vs. Mediterranean) played significant roles in the shaping of the catch, an assessment that will be pursued further at the level of the paleotemperature and catching areas of the sea as inferred from 180/160 and 875r/885r values. Four aspects deemed key for determining the nature of these fisheries will be explored: (a) the nature of the catch as inferred from the taxonomic composition and estimated weights of the fish assemblages, (b) the local vs. foreign and (c) the seasonal vs. year-round nature of the fishery as inferred on the basis of isotopic analysis of strontium and oxygen. Lastly (d) the presence of processed and stockfish will be explored through fine screening and analyses of the sediments from presumed storage buildings in a search of bioindicator proxies, specifically those insects and mites that are pests of these stored productions. A substantial part of the identifications in two of the selected sites will focus on scales. The isotopic analyses will, in turn, focus on the gilthead (Sparus aurata L.) on account of its availability in Iberian fish assemblages and will require the analysis of recent specimens to build a referential database that will serve as the baseline to interpret the archaeological specimens and a tool for future analysis of archaeological fish collections, and for environmental and fisheries biology research.