

## Conclusions

- First study of Hg isotopes in bivalves at the national scale
- Results show a spatial trend for MIF isotopes and a real difference between the Mediterranean Sea and
- the Atlantic Ocean or English Channel. Hg isotopes don't allow to determine specific ecosystems signatures but allow to track Hg sources in some local systems

Bibliography: Amos et al., 2015 - Observational and Modeling Constraints on Global Anthropogenic Enrichment of Mercury, Environ. Sci. Technol. 2015, 49, p4036–4047 Berguist and Blum, 2007 – Mass-dependent and independent fractionation of Hg isotopes by photoreduction in aqualic systems. Nature, 2007, 388, p353-359 Fitzgerald et al., 2007 - Manne Biogeochemical Cycling of Mercury, Chem. Rev. 2007, 107, p64 Sonke and Blum, 2013 - Advances in mercury stable isotope biogeochemistry. Chemical Geolog 2013, 336, p1-4 Laurier, Cossa et al., 2007 - The impact of groundwater discharges on mercury partitioning, speciation and bioavailability to mussels in a coastal zone. Marine Chemistry, 106(1), 352-364. of Mercury, Chem. Rev. 2007, 107, p641-662 ope biogeochemistry. Chemical 2010

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Additional, ongoing work will provide more insight to better understand coastal Hg sources and temporal trends