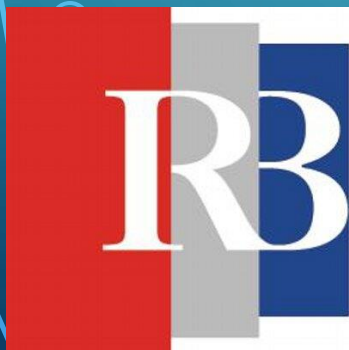


LONG TERM MONITORING IN MARINA PUNAT

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KEY PROGRAM

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LONG TERM MONITORING IN MARINA PUNAT

- This research represent an example of good management practice in marina Punat (Island of Krk, Croatia)
- The major environmental problem related to marinas' sea and sediments are increased concentrations of biocides such are Cu, Zn, As and Pb contained within the antifouling paints.
- Biocides protect the boat from fouling which destroys the boat hull and decreases the boat speed.
- Because of their bioaccumulation those chemicals could have a bad impact on a human health such as chronic and acute intoxication



LONG TERM MONITORING IN MARINA PUNAT

- Environmental monitoring in marina Punat was carried out four times per year during 10 years (2009–2018 in May, July, August and October) at four sampling points (T1, T2, T3 and T4), where each of the sampling points were analyzed in surface and bottom Sea layer. – by the Ruđer Bošković Institute.
- The physical parameters which has been analysed are: temperature, salinity, electrical conductivity and oxygen (dissolved oxygen and oxygen saturation level) at the bottom and surface Sea layer.
- Chemical parameters are mineral oil in the surface layer. Microbiological parameters are Total coliform, Fecal coliform and Intestinal enterococci, also as concentration of chemical elements: K, Ca, Ti, V, Cr, Mn, Fe, Ni, Cu, Zn, Ga, As, Br, Rb, Sr, Y, Zr, Cd, Sn, Hg and Pb in surface sediment.

LONG TERM MONITORING IN MARINA PUNAT

- Situation in marina Punat has been improved during the years.
- We concluded that marina Punat represent a good management practise.

LONG TERM MONITORING IN MARINA PUNAT

**THANK YOU
FOR YOUR
ATTENTION**

