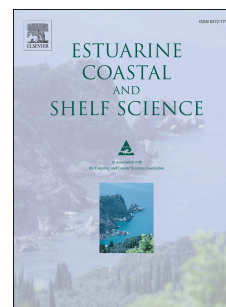


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Distribution and sources of organic matter in size-fractionated nearshore sediments off the Barcelona city (NW Mediterranean)

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Highlights

- Organic carbon (OC) on the shelf off Barcelona is dominated by land based sources
- Waves and outfall discharge determine grain-size and OC loading of seafloor
- Plant debris and OC adsorbed to clays account for most of the OC in sediments
- High remineralization rates are found in this nearshore environment

Keywords: organic carbon, carbon isotope ratio, grain size, shelf dynamics, NW Mediterranean

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