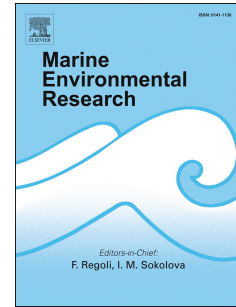


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Radiocesium in seawater, sediments, and marine megabenthic species in coastal waters off Fukushima in 2012–2016, after the 2011 nuclear disaster

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1 **Marine Environmental Research**

2  
3 **Title:**

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27  
28 **Abstract (maximum 150 words)**

29 In bottom-sediment samples collected in 2012 from a coastal strip (~30 km × 120 km) off the  
30 Fukushima Daiichi Nuclear Power Plant (FDNPP), radiocesium activity concentrations were  
31 generally higher south of the FDNPP, with high activity concentration patches in the north. In  
32 periodic surveys conducted at nearshore sites during 2012–2016, no clear temporal trends were  
33 observed in radiocesium activity concentrations in seawater or bottom sediment, and activity  
34 concentrations were higher in fish than in invertebrates. During 2012–2014, radiocesium activity  
35 concentrations tended to decrease in fish, but during 2012–2013 in the south, some increases were  
36 observed. Radiocesium activity concentrations were significantly higher in some fish (e.g., *Okamejei*

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