

小集水域からの地下水流出が海岸部の基礎生産に及ぼす影響：小浜湾東岸域の事例  
The influence of groundwater discharge on primary production in a shallow coastal sea,  
Obama bay, Japan

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Submarine groundwater discharge (SGD) often influences on biogeochemical properties in coastal seas. We observed spatial and temporal variations in SGD using <sup>222</sup>Rn and seepage meter along the shoreline of Obama bay, Japan. The results showed SGD exists even in the shallow sea adjacent to the small water catchment area (~1 km<sup>2</sup>), where the range of the tide is relatively small (10~30 cm). The spatial and temporal variations in chlorophyll observed at the same time suggest that the SGD influences on primary production.

キーワード: 陸海相互作用, 海底湧水, 沿岸生態系, 基礎生産

Keywords: land-ocean interaction, submarine groundwater discharge, costal ecosystem, primary production