

Acquisition of marine ecosystem information using radiocarbon

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Radiocarbon concentration of DIC in sea water changes greatly depending on location. .Therefore, ^{14}C will be a unique tracer of marine ecosystem.However, as ^{14}C measurement is difficult, such applications have not been attempted until now. There was one of the innovations in accelerator mass spectrometry. It is development of single stage AMS.Since insulating gas is not required, single stage AMS is easy to maintain.For the analysis of marine ecosystems, it requires analysis of a lot of samples.Single stage AMS that is easy to maintain is ideal for this application.In this presentation, We will present research on marine ecosystem analysis using Single stage AMS.

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