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Spatial distribution and transportation paths of ^{236}U the Beibu Gulf, South China Sea

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In order to investigate the spatial distribution and source of ^{236}U in the Beibu Gulf, we collected and analyzed 36 surface sediments using accelerator mass spectrometry (AMS). Prior to AMS measurement, the abundance of ^{238}U , ^{235}U and ^{234}U were determined by inductively coupled plasma mass spectrometry (ICP-MS). By combining the counts of ^{234}U and ^{236}U in the AMS measurement with the value of U isotope abundance, we can obtain the $^{236}\text{U}/^{236}\text{U}$ atomic ratio. The ^{236}U -AMS experiment is currently ongoing. We aim to determine the transport path of ^{236}U in this area through analysis of its concentration combined with ocean current movements.

Student Submission

No

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