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

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

### Student Submission

No

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