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Measurements of the Long-Lived Radionuclides in Environmental Samples by Accelerator Mass Spectrometry^{*1}

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We present a brief description of the status of our accelerator mass spectrometry system at the tandem accelerator facility of University of Tokyo and some examples of measurements in environmental samples which have been performed recently. The ^{10}Be activities have been measured in monthly collected fallout (rain) samples in Tokyo during 1975—1977 and 1984—1986, and compared with those of ^7Be and ^{137}Cs . A preliminary experiment on ^{14}C measurement in volcanic gas samples are also reported.

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