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Methodology and Tracing Applications of long-lived Anthropogenic radioiodine

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Radioactive iodine is a key concern for the transport and dispersion of radioactive pollutants and radiation exposure evaluation during nuclear accidents and nuclear emergency preparedness, as well as for understanding the atmospheric cycling of iodine. However, atmospheric ^{129}I is difficult to measure due to its low concentration in remote areas, away from nuclear pollution sources. This presentation will introduce a series of methods for sensitive determination of ^{129}I and its species in atmosphere, ocean and land. Furthermore, a brief review will be given on the applications of iodine-129 in atmospheric cycling, radioactive proxy for defining the onset of the Anthropocene and nuclear environmental safety.

Student Submission

No

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