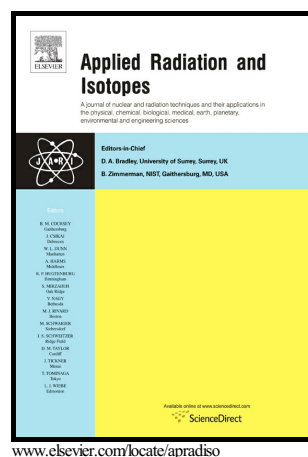


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H. Ramebäck, C. Söderström, M. Granström, S. Jonsson, J. Kastlander, T. Nylén, G. Ågren



PII: S0969-8043(18)30171-4
DOI: <https://doi.org/10.1016/j.apradiso.2018.07.008>
Reference: ARI8413

To appear in: *Applied Radiation and Isotopes*

Received date: 19 February 2018

Revised date: 6 July 2018

Accepted date: 6 July 2018

Cite this article as: H. Ramebäck, C. Söderström, M. Granström, S. Jonsson, J. Kastlander, T. Nylén and G. Ågren, Measurements of ^{106}Ru in Sweden during the autumn 2017: gamma-ray spectrometric measurements of air filters, precipitation and soil samples, and *in situ* gamma-ray spectrometry measurement, *Applied Radiation and Isotopes*, <https://doi.org/10.1016/j.apradiso.2018.07.008>

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**Measurements of ^{106}Ru in Sweden during the autumn 2017:
gamma-ray spectrometric measurements of air filters,
precipitation and soil samples, and *in situ* gamma-ray
spectrometry measurement**

H. Ramebäck^{1,2}, C. Söderström¹, M. Granström¹, S. Jonsson¹, J. Kastlander¹, T. Nylén¹, G. Ågren¹

¹ Swedish Defence Research Agency (FOI), Division of CBRN Defence and Security,
SE-164 90 Stockholm

² Chalmers University of Technology, Department of Chemistry and Chemical Engineering
Nuclear Chemistry, SE-412 96 Göteborg, Sweden

Abstract

During the last days of September to the first days of October in 2017, a unique detection of ^{106}Ru was observed in air filters sampled at different locations in Sweden via the national air monitoring network. Furthermore, measurements of precipitation also showed the presence of ^{106}Ru . This initiated soil sampling and *in situ* gamma-ray spectrometry at one of the locations.

Keywords: Gamma-ray spectrometry; ^{106}Ru , deposition; soil samples; air filters; in situ gamma-ray spectrometry; precipitation

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