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of Vancouver Island following the Fukushima Reactor Accident L. E. Sinclair, H. C. J. Seywerd, R. Fortin, J. M. Carson, P. R. B. Saull, M. J. Coyle, R. A. Van Brabant, J. L. Buckle, S. M.

Aerial Measurement of Radioxenon

Concentration off the West Coast

Desjardins, R. M. Hall

(Submitted on 20 Jun 2011)

In response to the Fukushima nuclear reactor accident, on March 20th, 2011, Natural Resources Canada conducted aerial radiation surveys over water just off of the west coast of Vancouver Island. Dose-rate levels were found to be consistent with background radiation, however a clear signal due to Xe-133 was observed. Methods to extract Xe-133 count rates from the measured spectra, and to determine the corresponding Xe-133 volumetric concentration, were developed. The measurements indicate that Xe-133 concentrations on average lie in the range of 30 to 70 Bq/m3.

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