**Data Base of Radioecological Parameters for Arid Environments**

**Mauritius Hiller,1,\* Natalia Semioschkina,1 and Gabriele Voigt1**

*1RadCon GmbH, Am Mittleren Moos 46a, 86167 Augsburg, Germany*

\* *e-mail: m.hiller@radcon.de corresponding/presenting author*

Nuclear technology has a wide range of uses in agriculture, food preservation, water management, health, aeronautics, and energy production.

Any country that utilizes nuclear technology must be prepared for the rapid elimination of malfunctions and must have a plan for assessing the impact of any releases on the population and environment, mitigating their consequences, and rehabilitating contaminated areas.

This involves creating a Decision Support System (DSS), combining temporal and spatial data on the transfer of radioactive material in the environment, particularly in food chains. Unfortunately, some countries with intensive nuclear use and development have yet to establish a DSS. This is especially hard in arid climates, where the necessary information is often sparse or entirely absent.

The creation of a DSS requires the identification of many parameters including statistical information on the local population, industrial production, and food products. A significant factor is radionuclide transfer from contaminated soil into plants directly consumed by humans or used as animal feed. The driving processes might differ significantly in arid climates from those in well-studied temperate or humid regions. We support these efforts by consulting and guidance in this field, as well as by developing and providing a database of transfer factors.

Our large database contains relevant radionuclide concentration ratios from soils to crops in arid conditions. These coefficients can be used for calculating food contamination to assess radiation doses and identify the most sensitive products in arid regions. This continuously updated database is available online.

This paper presents instructions for preparing abstracts for the 8th International Conference on Environmental Radioactivity, which will held from September 14 to 19, 2025, in Kraków, Poland.

The authors are encouraged to submit an abstract (A4-size with 25 mm margins on all sides) in a pdf format by **April 30th, 2025**. The title should be placed at the top, followed by the author(s) name(s), affiliation(s) and address(es), and email address of the contact person if available. Use “Calibri” font. If you have to utilize other fonts, all the fonts must be embedded in the file. The font size should be 14 point for the title, and 11 point for the main text. The font size in figure and table (including captions) should be at least 10.5 point. The abstract must not exceed one page and may include figures, tables, and references, if necessary.

All abstracts must be submitted via Indico for which you will need to create an account. Abstracts are submitted online through the Indico submission system:

<https://indico.ifj.edu.pl/event/1258/abstracts/>

Abstracts submitted via email or other means will not be considered. Filenames should follow the style of ‘*surname*\_*forename*\_ENVIRA2025\_*contribution*.pdf’. Names should be written with standard Latin characters, while contribution indicates the preferred presentation format: oral or poster. The example of a correct file name is ‘Lem\_Stanislaw\_ENVIRA2025\_oral.pdf”.By submitting an abstract, you agree to its publication in the official program of the Conference. All accepted and published abstracts must have registered presenting authors. Authors will be notified of acceptance of their abstract by email no later than the **15th of May 2025**.

For any questions or further information on abstract submission, please contact envira2025@ifj.edu.pl.