

Radioecological Parameters for Emergency Preparedness

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A robust and accessible database of radioecological parameters is essential for effective emergency preparedness and response to radiological and nuclear incidents. Such a database compiles critical information on radionuclide behavior in various environmental compartments, including soil-to-plant transfer factors, distribution coefficients, ecological half-lives, and bioaccumulation rates across ecosystems.

We present here a database of such factors, summarizing literature accumulated over many years of work.

By providing a centralized repository of validated parameters, this database serves as key tool for radiological protection, public safety, decision support systems and environmental management.

In total, the database contains in total over
3300 entries for transfer factors for over
65 different nuclides from
36 different elements,
collecting data from 23 different countries.

Technical Track

Safety and Severe Accidents

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