

FREDERICA

FREDERICA Radiation effects database

The [FASSET](#) project identified that a system to help summarise dose-effect relationships between radiation exposures and their effects on organisms was required and the [FRED](#) database was created. This database was extended, improved and made more user-friendly as part of the [ERICA](#) project to become the [FREDERICA](#) database and has been used by the [PROTECT](#) project, UNSCEAR and others. It contains 1509 references covering the literature from 1945 to 2004 and contains 29,400 data entries. It is available for use on its own or in conjunction with the [ERICA Tool](#) (where there is a live link to it) for undertaking risk assessments for the impact of ionising radiation on non-human species. Summary information is available on the effects of ionising radiation on different wildlife groups under seven umbrella endpoints: mutation, morbidity, reproductive capacity, mortality, stimulation, adaptation and ecological.

The [FREDERICA](#) radiation effects database is available from: frederica-online.org

 Note that the site should be accessed using Internet Explorer only.

Other supporting documentation includes:

- Copplestone, D. (ed.), Brown J., Hingston J.L., Real A., Sazykina T., Sundell-Bergman S., Wood M.D. 2005. DELIVERABLE D1: Progress on the Production of the Web-based Effects Database: FREDERICA. [Full text](#)
- Copplestone, D., Hingston, J., Real, A. 2008. The development and purpose of the FREDERICA radiation effects database. *J. Environ. Radioact.*, 99, 1456-1463. [Abstract](#)
- Guidelines for conducting radiation effects studies from the [ERICA project](#) and the England & Wales [Environment Agency](#)