

# ERICA papers

Refereed papers from the ERICA consortium

**A special issue of the Journal of Environmental Radioactivity (Volume 99, issue 9) edited by B.J. Howard and C-M. Larsson was dedicated to the ERICA project (read Preface).**

The papers contained within the special issue provide the scientific basis for all the various elements of the ERICA Integrated Approach and the ERICA Tool together with the results of some case study applications.



Alonzo, F., Hertel-Aas, T., Gilek, M., Gilbin, R., Oughton, D.H., Garnier-Laplace, J. 2008.  
Modelling the propagation of effects of chronic exposure to ionising radiation from individuals to populations.  
*J. Environ. Radioact.*, 99, 1464-1473.  
[Abstract](#)

Beresford, N.A., Barnett, C.L., Howard, B.J., Scott, W.A., Brown, J.E., Copplestone D. 2008.  
Derivation of transfer parameters for use within the ERICA Tool and the default concentration ratios for terrestrial biota.  
*J. Environ. Radioact.*, 99, 1393-1407.  
[Abstract](#)

Beresford, N.A., Barnett, C.L., Jones, D.G., Wood, M.D., Appleton, J.D., Breward, N., Copplestone D. 2008.  
Background exposure rates of terrestrial wildlife in England and Wales.  
*J. Environ. Radioact.*, 99, 1430-1439.  
[Abstract](#)

Beresford, N.A., Gaschak, S., Barnett, C.L., Howard, B.J., Chizhevsky, I., Strømman, G., Oughton, D.H., Wright, S.M., Maksimenko, A., Copplestone D. 2008.  
Estimating the exposure of small mammals at three sites within the Chernobyl exclusion zone - a test application of the ERICA Tool.  
*J. Environ. Radioact.*, 99, 1496-1502.  
[Abstract](#)

Brown, J.E., Alfonso, B., Avila, R., Beresford, N.A., Copplestone, D., Pröhl, G., Ulanovsky A. 2008.  
The ERICA Tool.  
*J. Environ. Radioact.*, 99, 1371-1383.  
[Abstract](#)

Copplestone, D., Hingston, J., Real, A. 2008.  
The development and purpose of the FREDERICA radiation effects database.  
*J. Environ. Radioact.*, 99, 1456-1463.  
[Abstract](#)

Garnier-Laplace, J., Copplestone, D., Gilbin, R., Alonzo, F., Ciffroy, P., Gilek, M., Agüero, A., Bjork, M., Oughton, D.H., Jaworska, A., Larsson, C.M., Hingston, J.L. 2008.  
Issues and practices in the use of effects data from FREDERICA in the ERICA Integrated Approach.  
*J. Environ. Radioact.*, 99, 1474-1483.  
[Abstract](#)

Gomez-Ros, J.M., Prohl, G., Ulanovsky, A., Lis, M. 2008.  
Uncertainties of internal dose assessment for animals and plants due to non-homogeneously distributed radionuclides.  
*J. Environ. Radioact.*, 99, 1449-1455.  
[Abstract](#)

Hosseini, A., Thoring, H., Brown, J.E., Saxen, R., Ilus, E. 2008.  
Transfer of radionuclides in aquatic ecosystems - Default concentration ratios for aquatic biota in the ERICA Tool.  
*J. Environ. Radioact.*, 99, 1408-1429.  
[Abstract](#)

Larsson, C.M. 2008.  
An overview of the ERICA Integrated Approach to the assessment and management of environmental risks from ionising contaminants.  
*J. Environ. Radioact.*, 99, 1364-1370.  
[Abstract](#)

Oughton, D.H., Agüero, A., Avila, R., Brown, J.E., Coplestone, D., Gilek, M. 2008.  
Addressing uncertainties in the ERICA Integrated Approach  
*J. Environ. Radioact.*, 99, 1384-1392.  
[Abstract](#)

Ulanovsky, A., Prohl, G., Gomez-Ros, J.M. 2008.  
Methods for calculating dose conversion coefficients for terrestrial and aquatic biota.  
*J. Environ. Radioact.*, 99, 1440-1448.  
[Abstract](#)

Wood, M.D., Marshall, W.A., Beresford, N.A., Jones, S.R., Howard, B.J., Coplestone, D., Leah, R.T. 2008.  
Application of the ERICA Integrated Approach to the Drigg coastal sand dunes.  
*J. Environ. Radioact.*, 99, 1484-1495.  
[Abstract](#)

Zinger, I., Coplestone, D., Howard B.J. 2008.  
Decision-making in environmental radiation protection: using the ERICA Integrated Approach.  
*J. Environ. Radioact.*, 99, 1510-1518.  
[Abstract](#)

Zinger, I., Oughton, D.H., Jones, S.R. 2008.  
Stakeholder interaction within the ERICA Integrated Approach.  
*J. Environ. Radioact.*, 99, 1503-1509.  
[Abstract](#)

#### **Other papers from the ERICA consortium**

Beresford N.A., Wright S.M., Barnett C.L., Wood, M.D., Gaschak S., Arkhipov A., Sazykina T.G., & Avila R. 2005.  
A case study in the Chernobyl zone - part 1: predicting radionuclide transfer to wildlife.  
*Radioprotection*, Suppl. 1, 40, S291-S297.  
[Abstract](#)

Beresford, N.A., Wright, S.M., Barnett, C.L., Hingston, J.L., Vives I Battle, J., Coplestone, D., Kryshev, I.I., Sazykina, T.G., Prohl, G., Arkhipov, A., Howard B.J., 2005.  
A case study in the Chernobyl zone - part 2: predicting radiation induced effects in biota.  
*Radioprotection*, Suppl. 1, 40, S299-S305.  
[Abstract](#)

Beresford, N.A. , Wright, S.M., Barnett, C.L., Wood, M.D., Gaschak, S., Arkhipov, A., Sazykina T.G., Howard, B.J., 2005.  
Predicting radionuclide transfer to wild animals - an application of a proposed environmental impact assessment framework to the Chernobyl exclusion zone.  
*Radiat. Environ. Biophys.*, 44, 161-168.  
[Abstract](#)

Garnier-Laplace, J., Della-Vedova, C., Gilbin, R., Coplestone, D., Hingston, J., Ciffroy, P., 2006.  
First derivation of predicted-no-effect values for freshwater and terrestrial ecosystems exposed to radioactive substances.  
*Environmental Science and Technology*, 40, 6498-6505.  
[Abstract](#)

Ulanovsky, A., Prohl, G., 2006.  
A practical method for assessment of dose conversion coefficients for aquatic biota.  
*Radiat. Environ. Biophys.* 45, 203-214.