

## Publications of LRC in 2012

C. Aulagnier, S. Le Dizès, M.A. Gonze, D. Maro, D. Hebert, R. Lardy. 2012. Modelling chronic and accidental releases of carbon-14 to the environment: A case study in a grass field near AREVA-NC La Hague. *Journal of Environmental Radioactivity*, 112: 52-59.

<http://www.sciencedirect.com/science/article/pii/S0265931X12000811>

Bailly du Bois P., Poudroux B. 2012. Système de prélèvement en profondeur dynamique et en continu. *Paralia* 549-558.

Bailly du Bois P., Laguionie P., Boust D., Korsakissok I., Didier D., Fiévet B. 2012. Estimation of marine source-term following Fukushima Dai-ichi accident. *Journal of Environmental Radioactivity* 114: 2-9.

<http://www.sciencedirect.com/science/article/pii/S0265931X1100289X>

Bailly du Bois P, Dumas F, Solier L, Voiseux C. 2012. *In-situ* database toolbox for short-term dispersion model validation in macro-tidal seas, application for 2D-model. *Continental Shelf Research*, 36: 63-82.

<http://www.sciencedirect.com/science/article/pii/S0278434312000143>

A Devos, C Voiseux, C Caplat and B Fievet. 2012. Effect of chronic exposure to zinc in young spat of the Pacific oyster (*Crassostrea gigas*). *Environmental Toxicology and Chemistry* 31 (12), pp. 2841-2847.

<http://onlinelibrary.wiley.com/doi/10.1002/etc.2012/abstract;jsessionid=90517946CF9C65E3006BF895E564D3A6.d04t02>

Francis, M., Maro, D., Connan, O., Hebert, D., Goriaux, M., Letellier, B., Defenouillere, P. 2012. Experimental study of atmospheric 3D dispersion of a passive tracer in urban environment: Comparison with Briggs Urban model. *WIT Transactions on Ecology and the Environment* 157, pp. 261-271.

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Laguionie P., Bailly du Bois P., Boust D., Fievet B., Garreau P., Connan O., Charmasson S., Arnaud M., Duffa C., Champion D. 2012. Consequences of radioactive releases into the sea resulting from the accident at the Fukushima Dai-ichi nuclear power plant - Evolution of expert investigation according to the data available. *Radioprotection* 47(3), pp. 423-447.

[http://www.radioprotection.org/index.php?option=com\\_article&access=doi&doi=10.1051/radiopro/2012032&Itemid=129](http://www.radioprotection.org/index.php?option=com_article&access=doi&doi=10.1051/radiopro/2012032&Itemid=129)

S. Le Dizès, D. Maro, D. Hébert, M.A. Gonze, C. Aulagnier. 2012. TOCATTA: a dynamic transfer model of <sup>14</sup>C from the atmosphere to soil-plant systems. *Journal of Environmental Radioactivity* 105(1): 48-59.

<http://www.sciencedirect.com/science/article/pii/S0265931X11002499>

## Publications of LRC in 2013

Aulagnier C., Le Dizès S., Maro D., Hebert D., Lardy R., Martin R. 2013. The TOCATA-khi model assessing <sup>14</sup>C transfer to grass: an evaluation for atmospheric operational releases from nuclear facilities. *Journal of Environmental Radioactivity* 120: 81-93.

<http://www.sciencedirect.com/science/article/pii/S0265931X11002499>

Bailly du Bois P., Laguionie P., Fiévet B., Boust D. 2013. Fukushima : la mer garde des traces de la catastrophe. *Biofutur* 339: 53-58.

<http://biofutur.revuesonline.com/article.jsp?articleId=17939>

Connan O., Hébert D., Rounsard P., Goujon R., Maro D., Letellier B., Le Cavalier S. 2013. Wet and dry deposition of particles associated metals (Cd, Pb, Zn, Ni, Hg) in a rural wetland site, Marais Vernier, France. *Atmospheric Environment* 67: 394-403.

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Connan O., Smith K., Solier L., Hebert D., Maro D. 2013. Comparison of RIMPUFF, HYSPLIT, ADMS models with experimental <sup>85</sup>Kr mesoscale measurement in the Vicinity (20-50 km) of the AREVA La Hague Reprocessing Plant. *Journal of Environmental Radioactivity* 124: 266-77.

<http://www.sciencedirect.com/science/article/pii/S0265931X13001422>

Fiévet B., Pommier J., Voiseux C., Bailly du Bois P., Laguionie P., Cossonnet C., Solier L. 2013. Transfer of tritium released into the marine environment by French nuclear facilities bordering the English Channel. *Environmental Science & Technology* 47(12): 6693-6703.

<http://pubs.acs.org/doi/abs/10.1021/es400896t>

Percot S., Ruban V., Rounsard P., Maro D., Millet M. 2013. Use of beryllium-7 as a surrogate to determine the deposition of metal and polycyclic aromatic hydrocarbon through urban aerosols in Nantes, France. *Atmospheric Environment* 74: 338-345.

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Vrel A., Boust D., Lesueur P., Deloffre J., Brunaud C., Solier L., Rozet M., Cossonnet C., Thomas S. 2013. Dating of sediment record at two contrasting sites of the Seine river using radioactivity data and hydrological time series. *Journal of Environmental Radioactivity* 126: 20-31.

<http://www.sciencedirect.com/science/article/pii/S0265931X13001434>