沿岸生態リスク評価モデルの開発

- 瀬戸内海モデルー

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Abstract

We have already developed ecological risk assessment models for Tokyo Bay and Ise Bay, called AIST-RAMTB and AIST-RAMIB. Using these models, users can easily estimate environmental concentrations of chemicals and their risk to marine organisms on Windows-based PCs. Based on these models, we developed a similar model suitable for the Seto-Inland Sea, called AIST-RAMSIS (National Institute of Advanced Industrial Science and Technology — The Risk Assessment Model for Seto-Inland Sea: AIST-RAMSIS). Environmental concentrations of chemicals can be estimated only by setting parameters of loading fluxes and calculation period using dialog-based graphic user interfaces (GUI). Using the estimated environmental concentrations of chemicals and their no observed effect concentrations (NOEC) for a target species, either risk to the species or an ecological risk can be determined. The results of environmental concentrations of chemicals and associated risk can be stored as CSV or image format files, and these results can be efficiently used or modified in other applications for other purposes.