

## The "Ressources" application

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### Abstract

"Ressource" is a computerized application for the management and spatial analysis of fishing-survey data. Information is structured according to the relational data model. A first module manages the data collected by the scientific surveys. Data are edited through a user-friendly interface, which includes some quality check. A second module assists the scientist in building up selections of sampling stations and calculates abundance indexes. Selection criteria and abundance indexes calculated are managed by the system. The result of a selection is automatically exportable to a geographic information system (GIS) software, where maps are built to display the abundance indexes calculated on the stations of the selection. The system is able to detect changes in the selection criteria and update the related maps accordingly. The scientist may proceed to the spatial analysis of the abundance indexes and create new maps which will be automatically stored in the map library of the selection.

This application has been used for demersal trawl-survey data, but should easily cope with pelagic survey data. The application is available at no cost but requires Microsoft ACCESS and ESRI Arcview commercial packages. Source code (Visual Basic for Applications and Avenue) is opened and fully documented in order to facilitate personalization or development of new modules by users. User interface is in French.

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