Introduction to PBSmodelling

Jon T. Schnute, Alex Couture-Beil, and Rowan Haigh

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1 What is PBSmodelling?

PBSmodelling contains software to facilitate the design, testing, and operation of computer models. The package focuses particularly on tools that make it easy to construct and edit a customized graphical user interface (GUI) appropriate for a particular problem. Although our package depends heavily on the R interface to Tcl/Tk, a user does not need to know Tcl/Tk. In addition to GUI design tools, PBSmodelling provides utilities to support data exchange among model components (including package management), conduct specialized statistical analyses, facilitate the loading of C code for performance enhancement, and produce graphs useful in fisheries modelling and data analysis. Examples implement classical ideas from fishery literature, as well as our own published papers. The examples also provide templates for designing customized analyses using other R libraries, such as PBSmapping, deSolve, and BRugs.

2 What is PBS?

The initials 'PBS' refer to the Pacific Biological Station, a major fisheries laboratory operated by by Fisheries and Oceans Canada on the Pacific coast in Nanaimo, British Columbia, Canada.

3 Where is the User's Guide?

The R directory ../library/PBSmodelling/doc includes a complete User's Guide PBSmodelling-UG.pdf. To use this package effectively, please consult the guide. We update the package more frequently than we update the User's Guide. To see our development site, navigate to PBSmodelling on GitHub.

4 Demos

PBSmodelling includes numerous examples, many of which appear in the User's Guide. To see them, run the function runExamples(). More generally, a user can view all demos available from locally installed packages with the function runDemos().

Reference

Schnute, J.T., Couture-Beil, A., Haigh, R., and Kronlund, A.R. 2017. PBSmodelling 2.68.4 user's guide revised from *Canadian Technical Report of Fisheries and Aquatic Sciences* **2674** (2006). viii + 82 pp. Last updated July 12, 2017.