

Tutorial: Enhanced Fish Price & Variable Costs Sub-models

This tutorial is freely available at the SEAwise Github page of Task 2.2 under https://github.com/ices-tools-dev/SEAwise_T2.2, while the development version is maintained at https://coispa.github.io/Fish-price-and-variable-costs/Enhanced_fishprice_fuelcosts_submodels.html.

This tutorial illustrates the use of two scripts, available on at the SEAwise Github page of Task 2.2 under https://github.com/ices-tools-dev/SEAwise T2.2:

- price_sub_models_Adriatic_lonian.r
- VC_sub_models_Adriatic_Ionian.r

On the SEAwise Github a dummy dataset is provided and the results shown in the tutorial are from the Adriatic and Western Ionian Sea Case Study. In the tutorial 5 models for fish price and one for variable costs are included for illustrative purposes. The extended equations tested in SEAwise can be found in Deliverable 2.2 (Bitetto et al., 2023,

https://data.dtu.dk/articles/online_resource/SEAwise_report_on_Carbon_footprint_economic_and_social_impacts_of_management_strategies/25012085). The scripts can be easily generalised to include more sub-models.

The scripts facilitate the identification of enhanced sub-models for fish price and variable costs and estimate the corresponding coefficients to be used to parameterize the bioeconomic models (e.g. FLBEIA and BEMTOOL).

The quarto link is available at:

https://coispa.github.io/Fish-price-and-variable-costs/Enhanced_fishprice_fuelcosts_submodels.html and on the SEAwise Github: https://github.com/ices-tools-dev/SEAwise_T2.2.