

SEAWise Work Theme Spatial Management Impacts

Task 5.5 - Predicting the Effect of Changes in 'Fishable' Areas on Fish and Fisheries

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Reporting can be found [here](#) on the DTU platform.

DISPLACE modelling:

- See the open source code at https://github.com/frabas/DISPLACE_GUI
- See the documentation and download the latest compilation of the software at <https://displace-project.org>
- See the NorthSea application used in SEAWise at https://github.com/frabas/DISPLACE_input_NorthSea
- R scripts for conditioning are available at https://github.com/frabas/DISPLACE_input_gis_NorthSea
- See the Eastern Ionian Sea application used in SEAWise at https://github.com/iridamaina/DISPLACE_input_IonianSea_SEAWISE

ECOSPACE modelling

- See EwE documentation and download the latest compilation of the software at <https://ecopath.org/>
- See the Eastern Ionian sea Ecopath/Ecosim documentation and parameterisation at https://data.dtu.dk/articles/online_resource/SEAWise_report_on_the_effects_of_fishing_on_food_webs_and_community_diversity_aimed_at_populating_the_MSFD_Descriptor_4_and_based_on_food_web_and_end-to-end_modelling_/25158746?file=44448041
- See the Adriatic and Western Ionian Ecopath/Ecosim/Ecospace documentation and parameterisation at https://data.dtu.dk/articles/online_resource/SEAWise_report_on_predicting_effect_of_changes_in_fishable_areas_on_fish_and_fisheries/24331198?file=42754711

BEMTOOL modelling

- See BEMTOOL (not spatial) bioeconomic model documentation, software and tutorial at https://github.com/ices-tools-dev/SEAWise_ecoMSE/tree/main/BEMTOOL
- See BEMTOOL spatial model (communicating with not spatial BEMTOOL) available at <https://github.com/COISPA/SpatialBMT>
- See the Adriatic and Western Ionian Spatial BEMTOOL parameterization in chapter 4.8 at https://data.dtu.dk/articles/online_resource/SEAWise_report_on_effects_of_spatial_management_measures_suggested_in_SEAWise_to_safeguard_species

[_habitats_and_choke_species_on_fisheries_selectivity_and_fuel_cost/28079429?file=51351986](https://doi.org/10.25937/dzcg-6c02)

FISHCODE modelling

- Model code, documentation, validation, and proxy data
<https://doi.org/10.25937/dzcg-6c02>

OSMOSE modelling

- Wageningen Marine Research: Model code and structure available on request at <https://git.wur.nl/ecodyn/i-osmose> - contact: karen.vandewolfshaar@wur.nl

ISIS-Fish modelling

- See documentation on the ISIS-Fish fisheries dynamics model at <https://isis-fish.org/>
- Download the latest and archived compilation of the software at <https://forge.code-lutin.com/projects/isis-fish/files>
- See the original ISIS-Fish database, including the biological and the fishing activity modules, the description of the fishing activity of the fisheries and the material to set it up and the key run of the fisheries dynamics model at <https://www.sea-noe.org/data/00915/102725/>