

Session 5: Adapting to a changing climate

SHOWCASING THE DECISION SUPPORT SOFTWARE

Parallel sessions

Group splitting

11:45-12:30

Parallel sessions

The Decision Support Software – presentations and showcase of the tool

Marine Fisheries in West of Scotland

Chair: M. Norte

Iran room

*A. Baudron,
Marine Scotland*

Marine aquaculture in Greece

Chair: R. Chapela

Lebanon room

*N. Papandroulakis,
HCMR, Greece*

Hungarian pond aquaculture

Chair: J. Arias Hansen

Mexico room

*G. Gyalog,
HAKI, Hungary*



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IRAN ROOM

- Mariola Norte, CETMAR
- Alan Baudron, Marine Scotland

West of Scotland marine fisheries

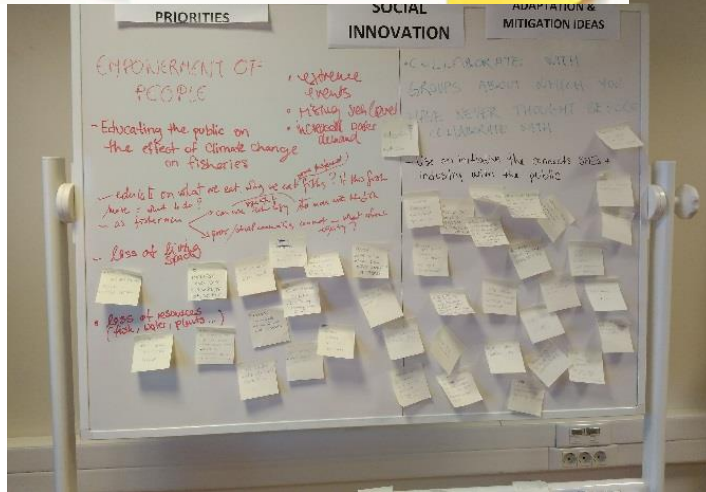


Today's plan

- Presentation of the Decision Support Software for the Greek marine aquaculture (Nikos)
- Showcase of the tool - Split into groups (1-2 groups)
- Share your feedback (stick your post-it on the flipchart)

Tell us your experience!

Your
feedback
matters!!!



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Any ideas on...

- How was your experience with the tool?
- Improvement ideas
- Application in further projects
- Any other thoughts?



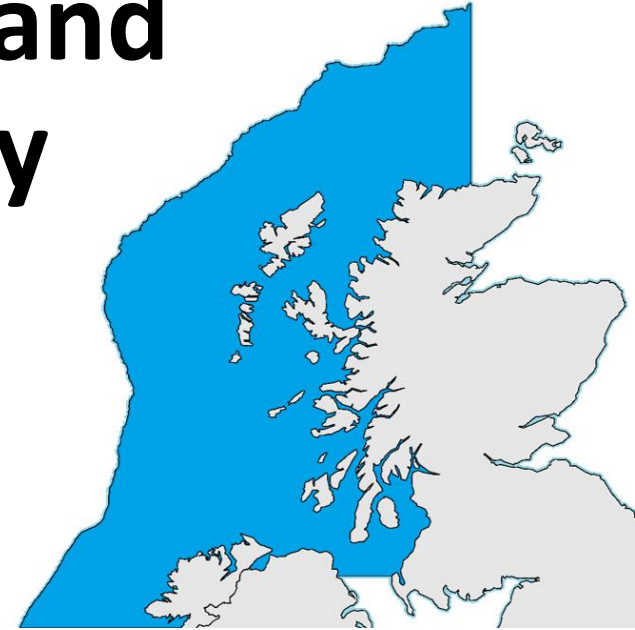
Thanks!



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A Decision Support Software for the West Scotland demersal fishery



2020 International Forum on the Effects of Climate Change on Fisheries & Aquaculture
25-26 February 2020, Rome



Alan Baudron, Johanna Witt, Astrid Strum



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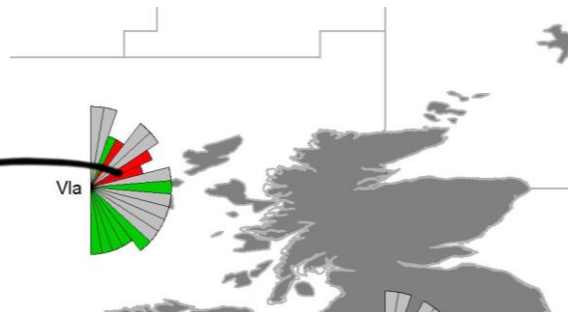
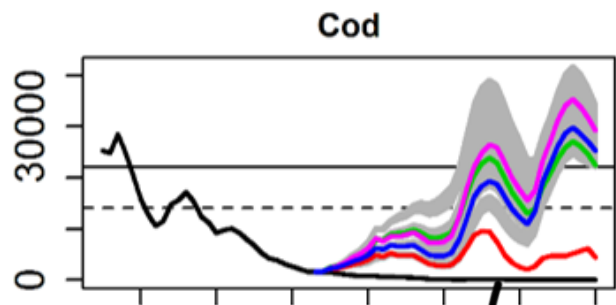


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Model simulations

Risk assessment

Empirical analyses



Stakeholder input



Decision Support Software

Tools to help stakeholders make decision to mitigate the impact of climate change

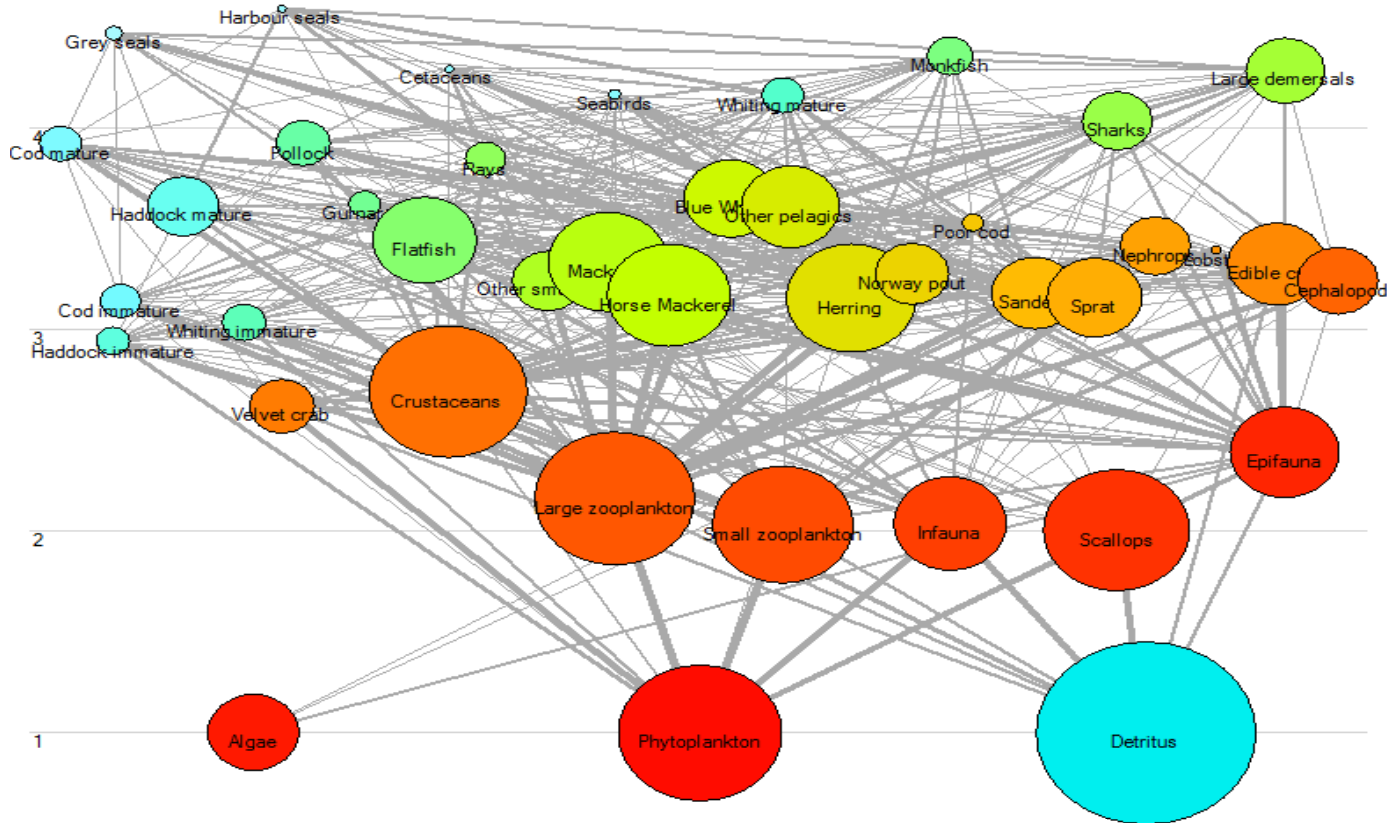


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Modelling the future impact of climate change



Impact of ocean warming on sustainable fisheries management informs the Ecosystem Approach to Fisheries

N. Serpetti¹, A. R. Baudron², M. T. Burrows¹, B. L. Payne¹, P. Helaouët³, P. G. Fernandes² & J. J. Heymans¹



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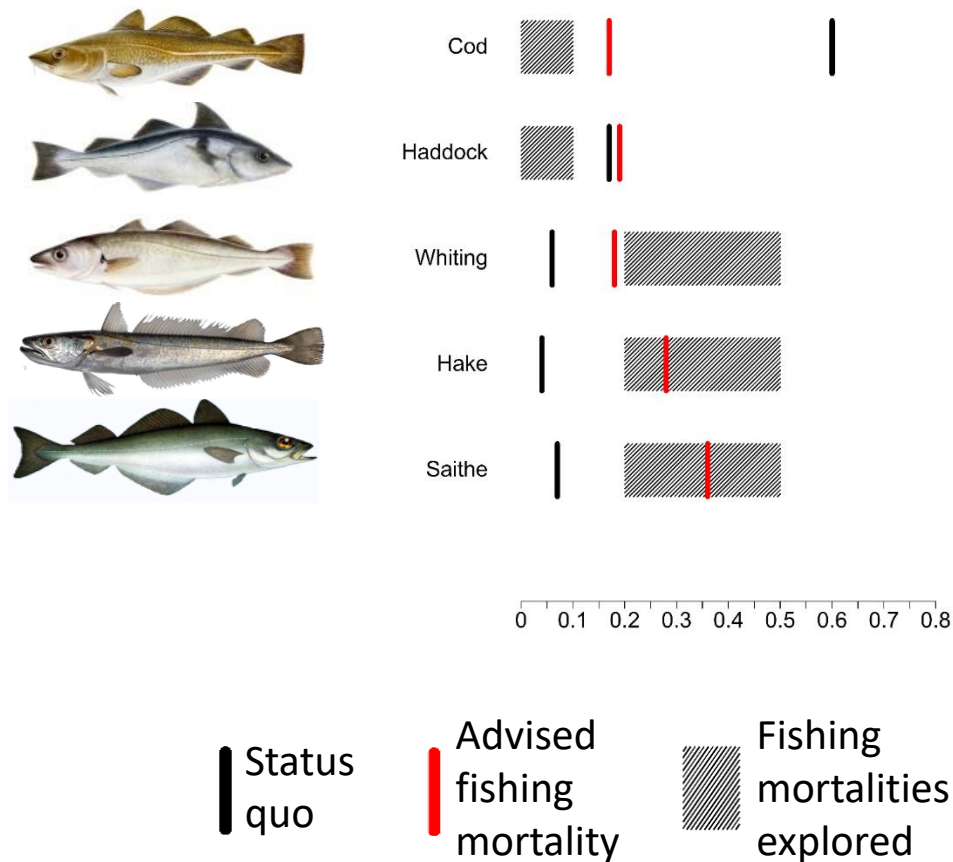
Serpetti et al., 2017

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Explore climate scenarios & alternative fishing regimes

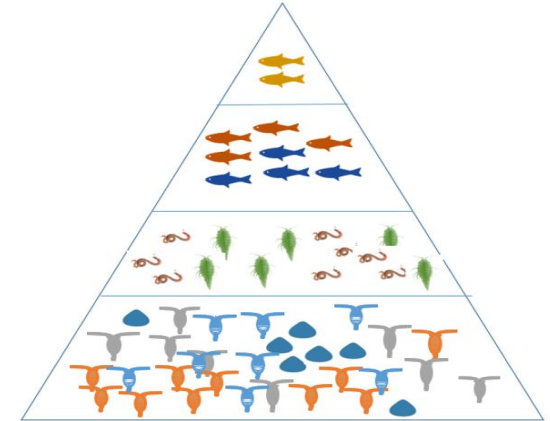
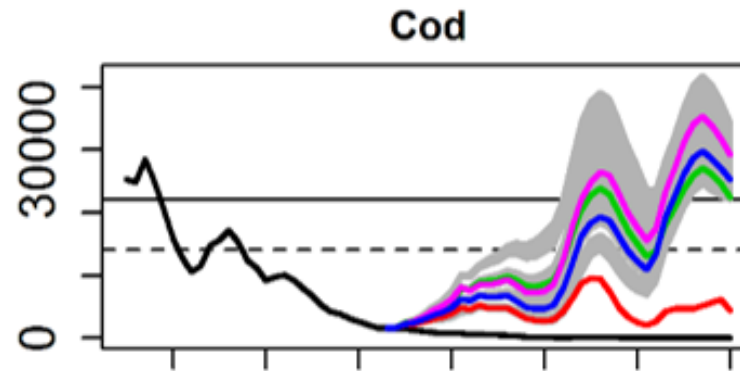
- ❑ Simulations from 2014 to 2050
- ❑ Two climate scenarios: medium & severe warming
- ❑ Two period with fixed fishing mortalities: 2014 to 2030 & 2031 to 2050
- ❑ Model accounts for predator-prey interactions



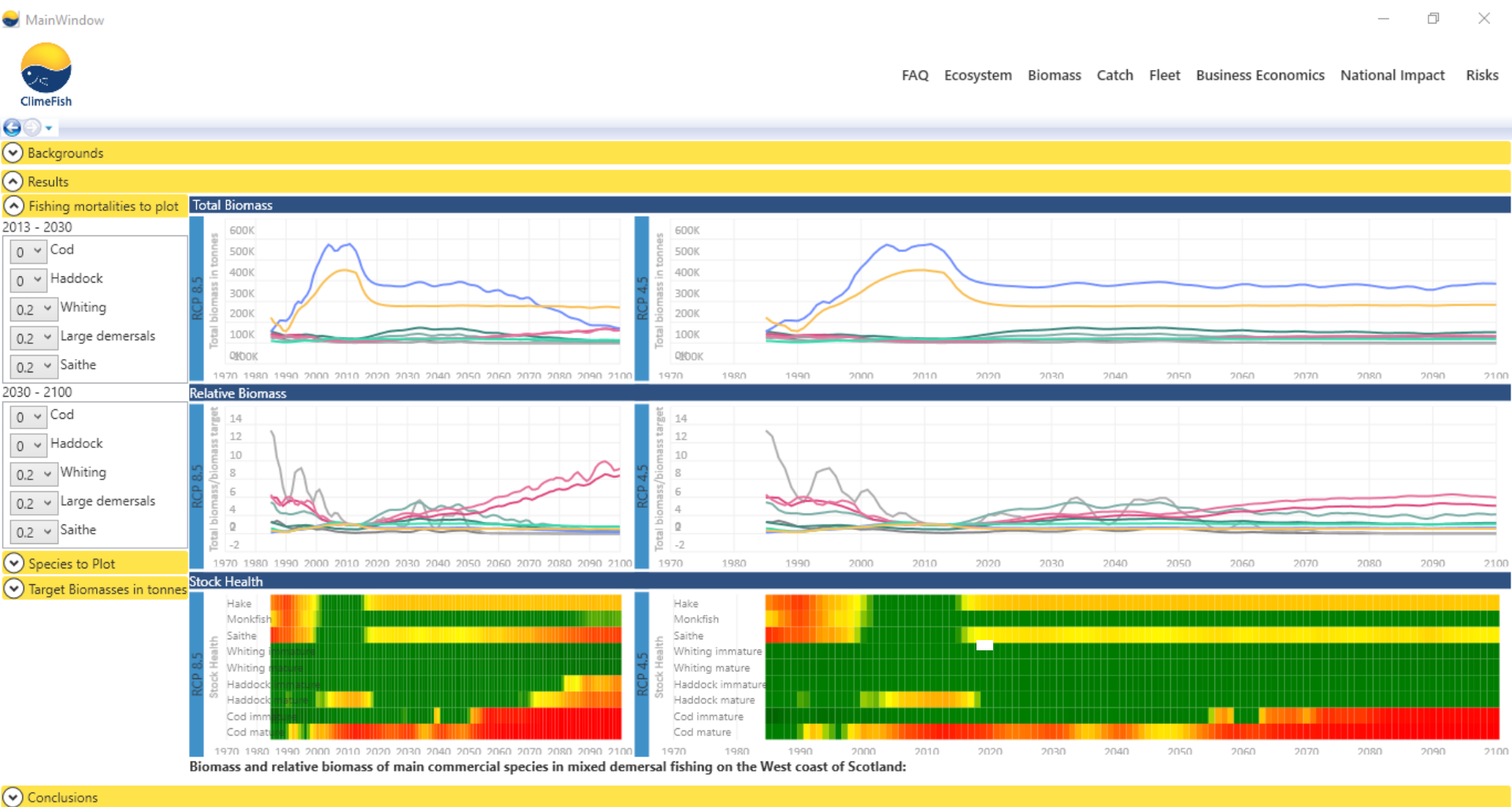
Explore climate scenarios & alternative fishing regimes

Outputs:

- ☐ Biomass
- ☐ Landings
- ☐ Ecosystem indicators
- ☐ Socio-economic indicators



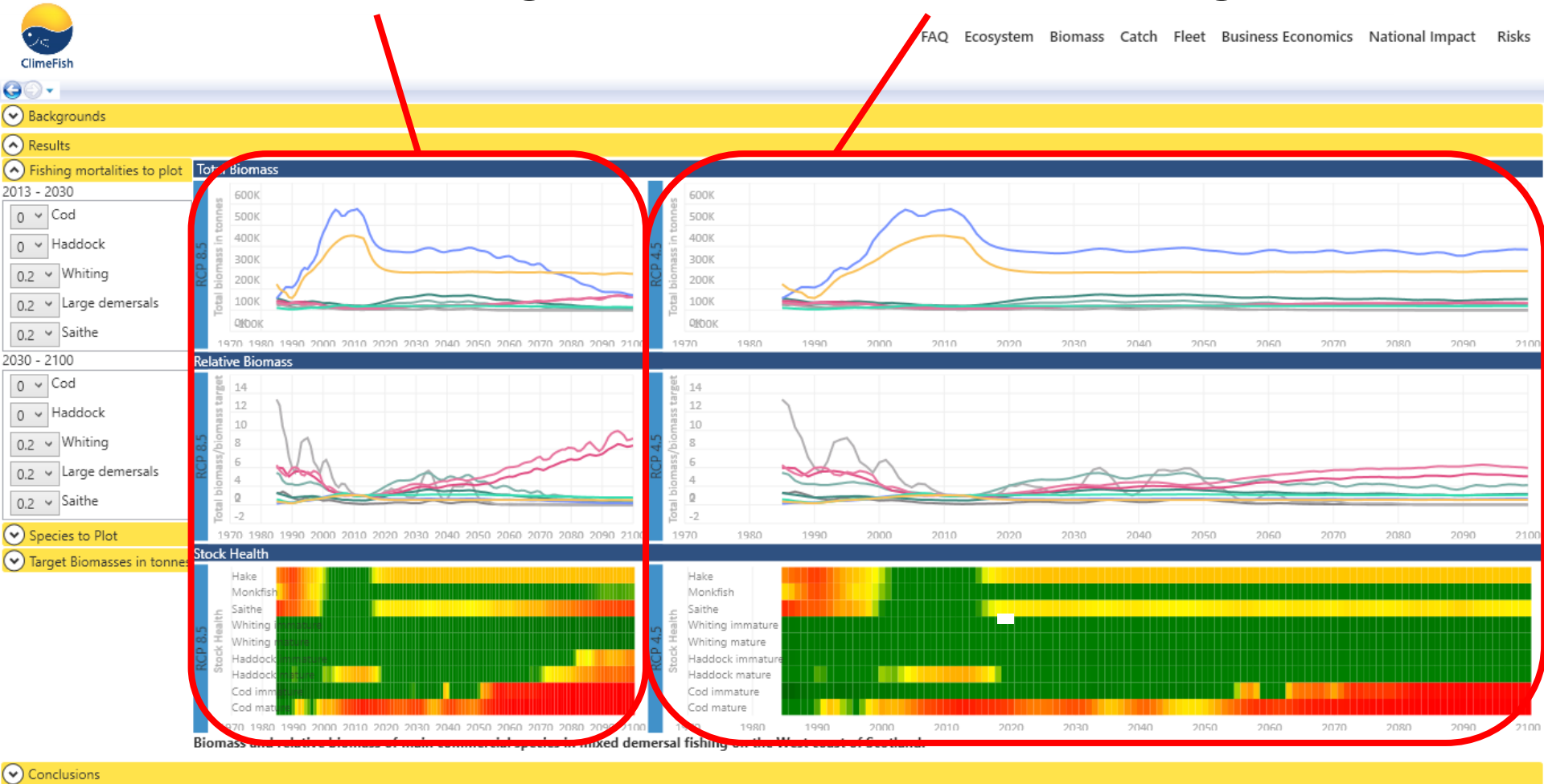
User interface: what does it look like?



User interface: what does it look like?

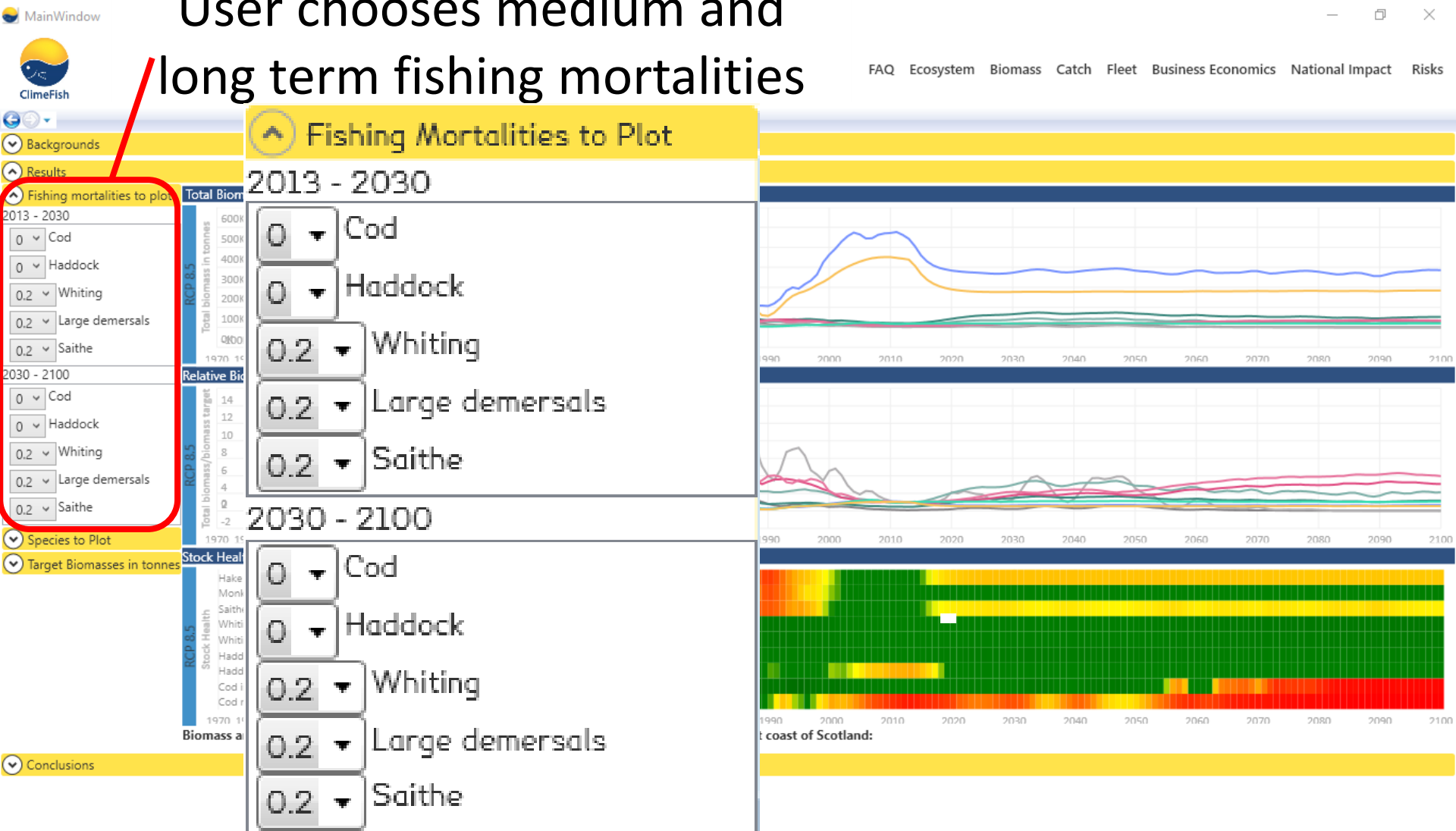
Severe warming

Medium warming



User interface: what does it look like?

User chooses medium and long term fishing mortalities



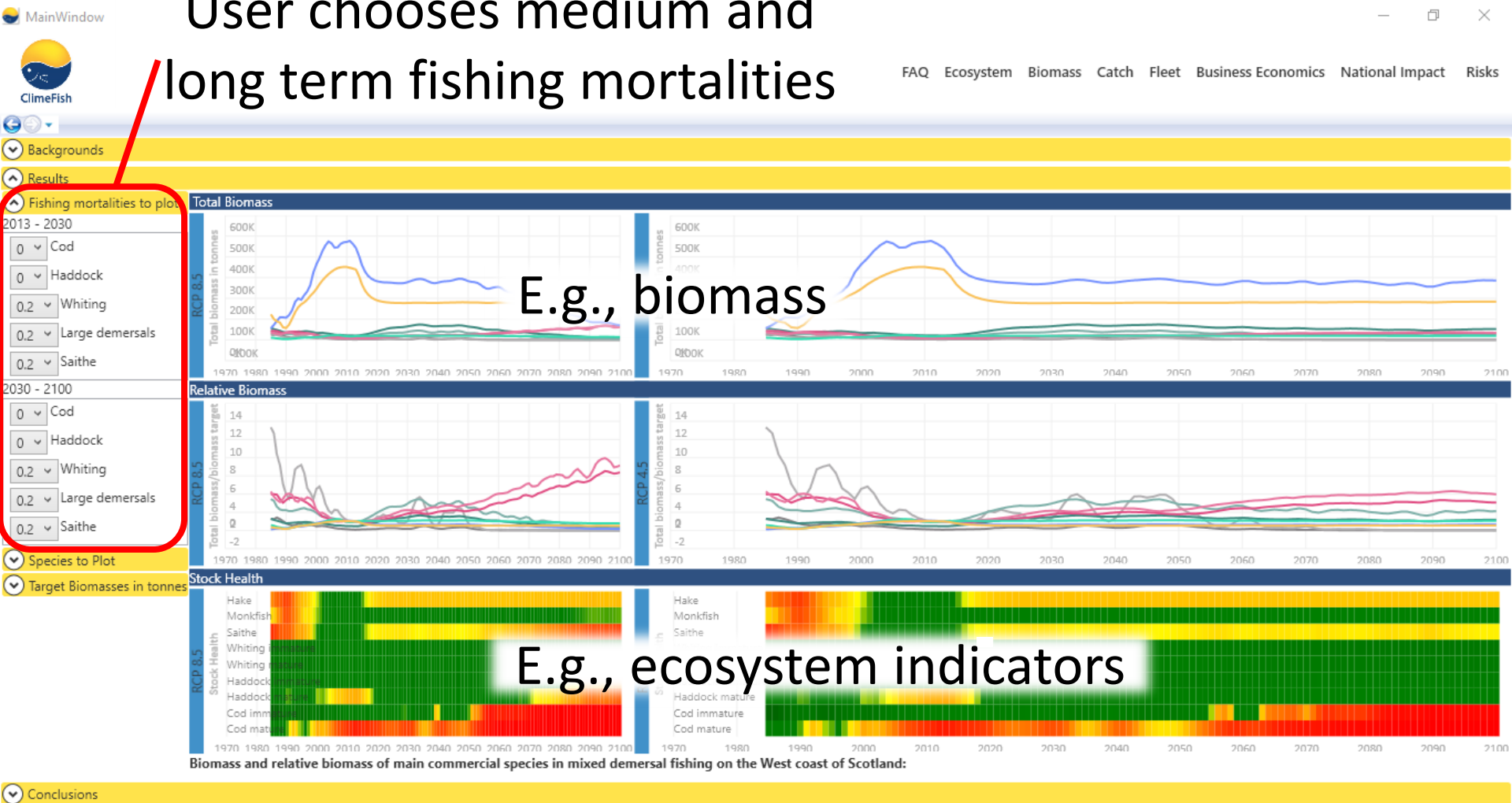
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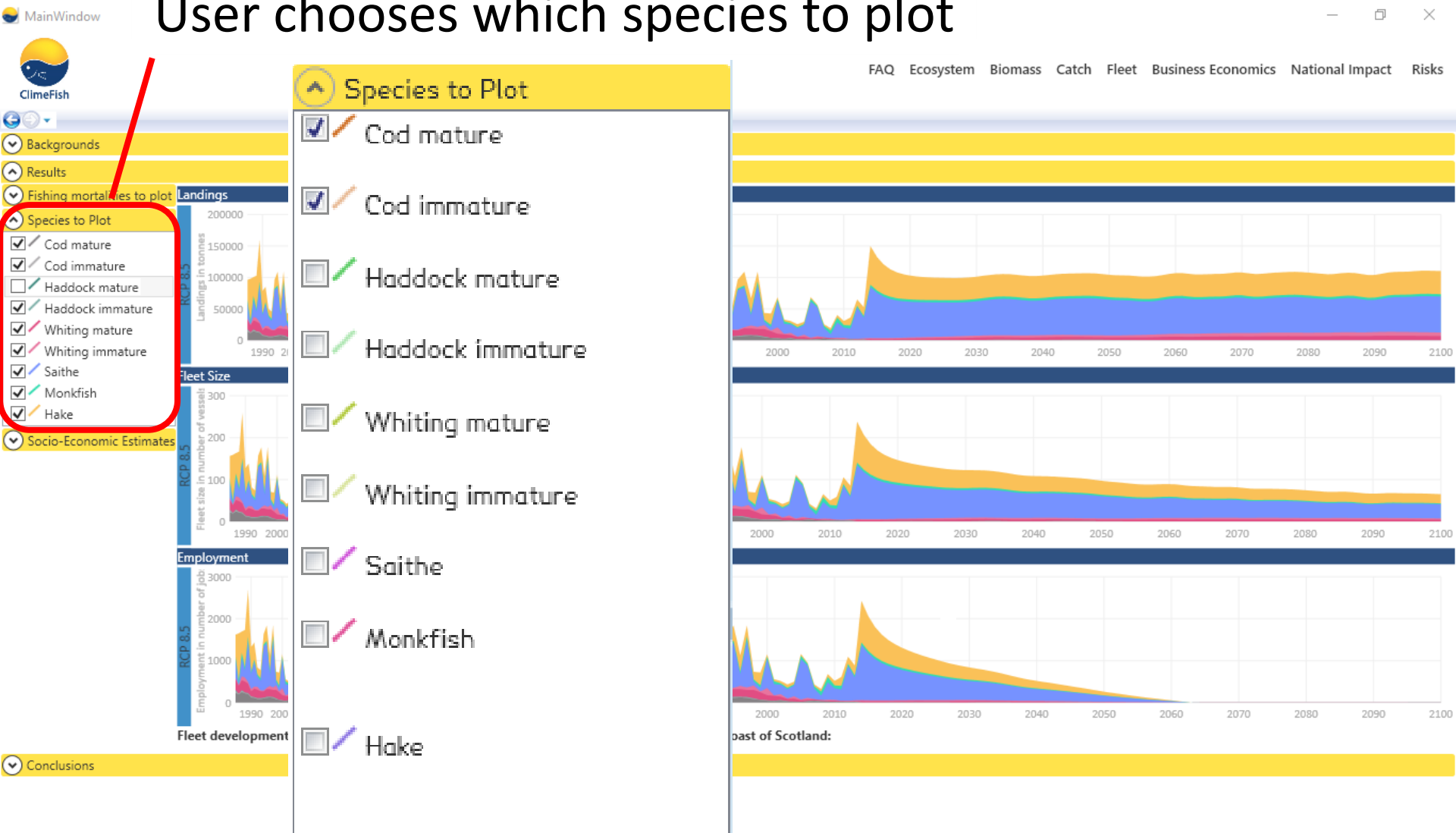
User interface: what does it look like?

User chooses medium and long term fishing mortalities



User interface: what does it look like?

User chooses which species to plot



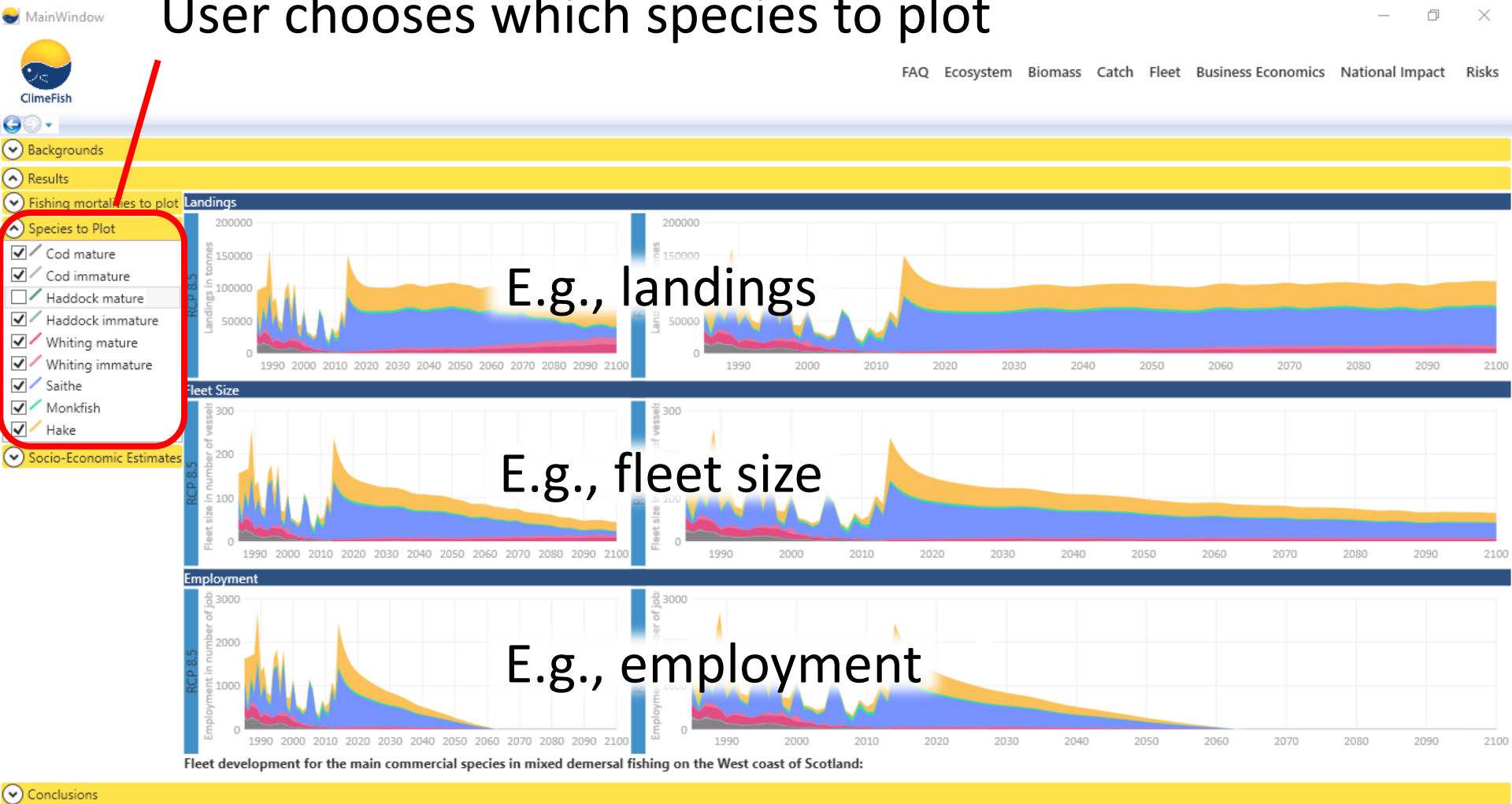
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User interface: what does it look like?

User chooses which species to plot



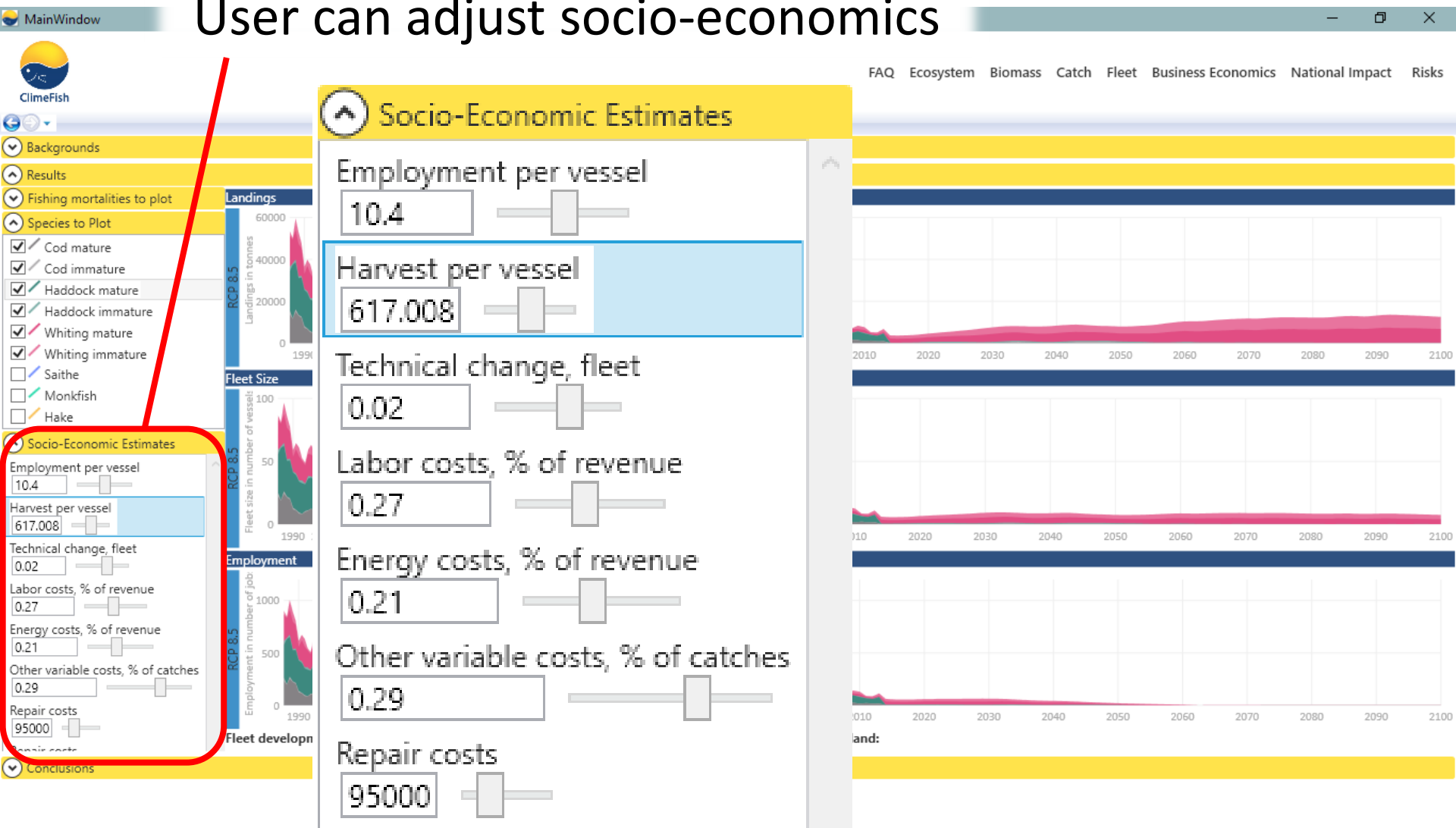
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User interface: what does it look like?

User can adjust socio-economics

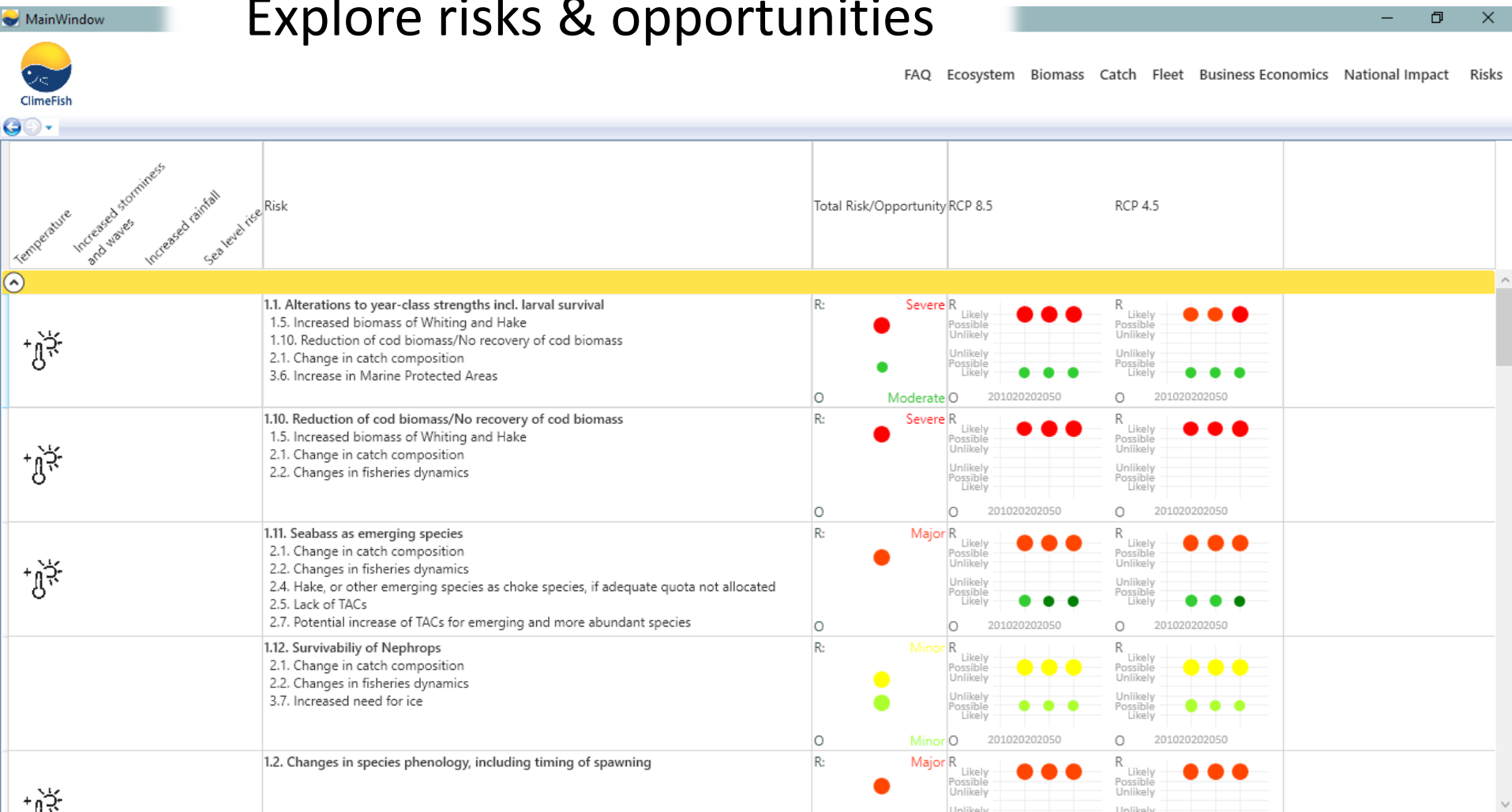


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User interface: what does it look like?

Explore risks & opportunities

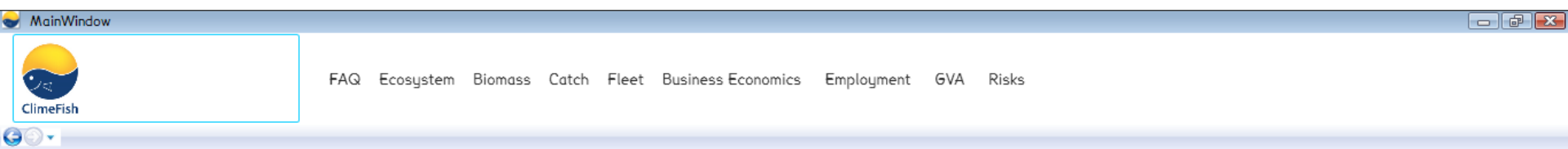


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Have a look for yourself!



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West Coast of Scotland

Welcome to the ClimeFish decision support software for mixed-demersal fisheries on the West coast of Scotland. Please navigate the documentation for different parts of the project with the buttons on the upper right.

b-tu
Brandenburg
University of Technology
Cottbus - Senftenberg



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