



Stock Assessment Results (STAR)

New organization of GFCM stock assessments

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Overview

Areas to improve labor-intensive tasks, risk of errors
unreliable data flow, unavailable time series

STAR design stock assessors submit data, they are stored in one place quality-controlled products, future extensions

Implementation Excel template, SQL database, automated Table of Advice

New framework streamlined automation of tasks, reduced risk of errors guaranteed data flow, new collection of time series

Stock assessments

In a nutshell

Estimate current (and historical) levels of exploitation and stock size

Provide a quantitative basis for biological advice, with a focus on long-term yield and stock size

Results

Current F and B

Reference points

Current status relative to reference points

Time series of recruitment, stock size, catches, exploitation level, and effort

Short-term forecast

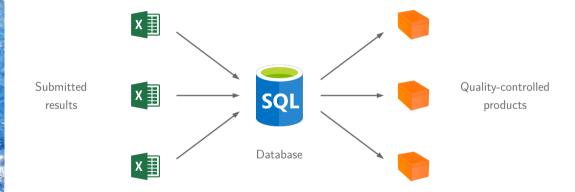
Other results: N at age, F at age, other

Draft advice

From assessment results to advice

```
Time series of recruitment, stock size, catches, exploitation level, and effort
Recent F and B
Current F and B (calculation depends on whether model is VPA type)
  1
Quantitative status \leftarrow Reference points
Draft advice ←
                    Forecast
```

STAR framework



STAR data container



 $star_template.xls$

Plain style

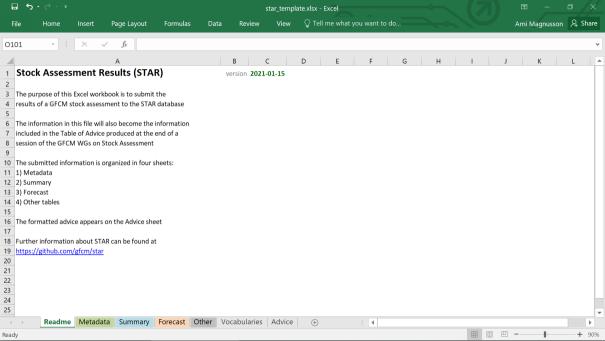
- no macros
- ▶ no hidden features

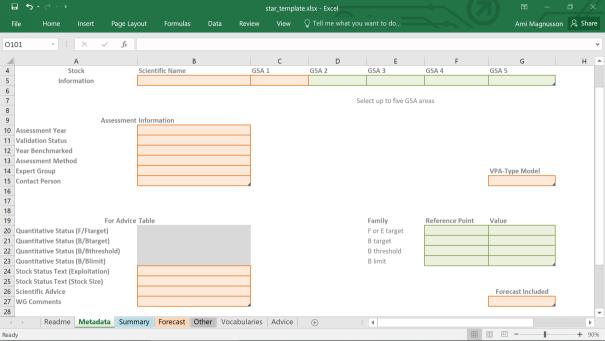
Structure

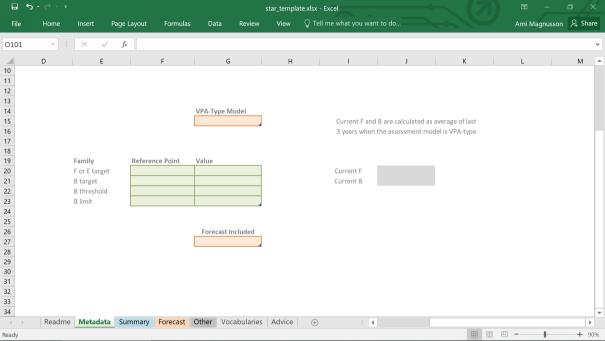
- sheets to separate different parts
- formulas to calculate stock status and advice
- table objects to export to other software

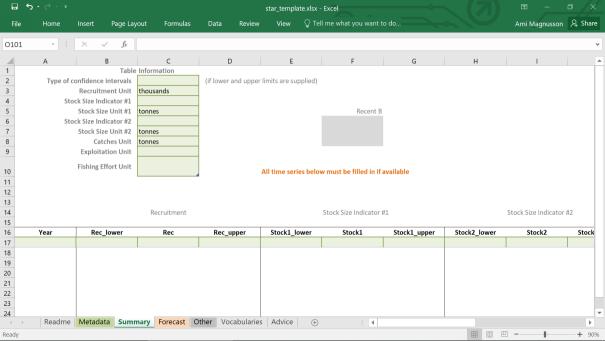
Excel formulas

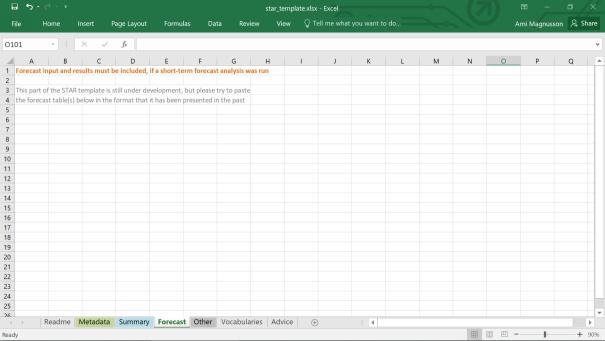
```
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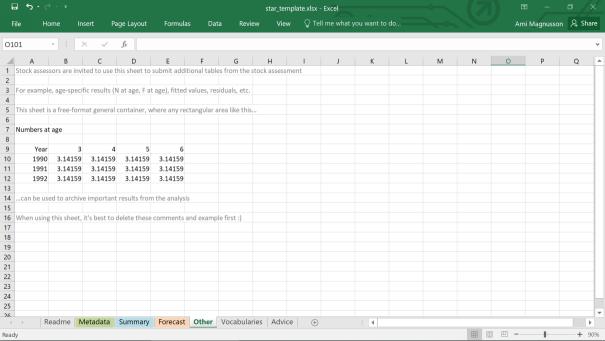


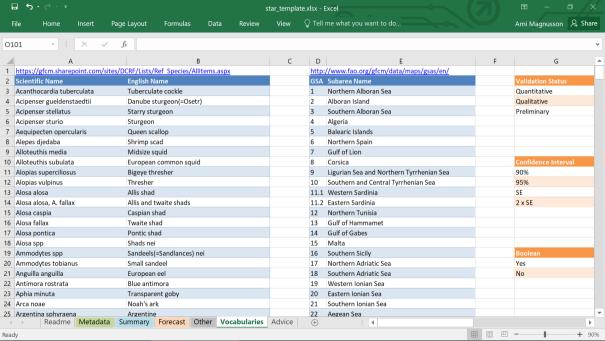


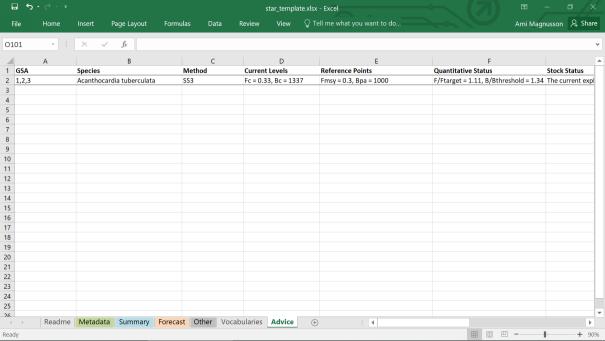




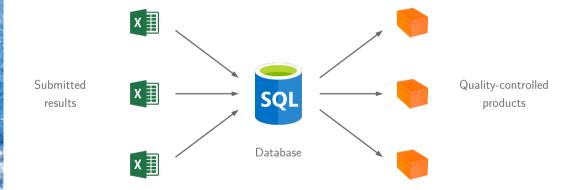








Summary



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Areas to improve labor-intensive tasks, risk of errors

unreliable data flow, unavailable time series

STAR design stock assessors submit data, they are stored in one place

quality-controlled products, future extensions

New framework streamlined automation of tasks, reduced risk of errors

guaranteed data flow, new collection of time series

Summary

Stock Assessment Results (STAR) is a new framework to organize GFCM stock assessment results.

It streamlines and automates the information flow from stock assessments to scientific advice, strengthens quality assurance and data dissemination.

The central part of the framework will be STAR database, scheduled to launch in 2021. It will serve as a foundation to provide a variety of quality-controlled data products related to the management of fisheries in the Mediterranean and the Black Sea.