**Global parameters:**

- Created Gpm and Gpf that represent the mean population value of G (for males and females subpopulation) at initialization.

- We need a counter to track number of new offspring born each reproductive season.

**Set-parameters procedure:**

- Moved here the initialization of L, K, mass0, Ve, mu\_cond, V\_cond (otherwise any new created trout is initializing these values!)

- Gpm and Gpf are initialized here

- Modified the setup of WM and WMc so that we don’t need WMT anymore. Modified accordingly the set-migratory-behaviour procedure.

**Go procedure:**

- Modified the piece of code related to the grim-reaper procedure to adapt it to the new approach.

- I think it’s better to have all related processes together, so I moved the new code representing fish dispersion in the fresh water to the piece of coded related to reproduction.

- Only females that have already reproduced should update their time-since-repro counter.

- Sea-time should be updated here for consistency.

- In the migration part: better to make anadromous fish perform the procedure only during the weeks when migration takes place. (Modified accordingly the respective procedures.)

**mortality procedure:**

- Got rid of prob-death and made it a local variable

**sneaker procedure:**

- modified:

let prop\_rivals count availa-rivals with [anadromous = true] / count availa-rivals

to

let prop\_rivals count rivals / count availa-rivals

to make use of the local variable *rivals* and don’t count individuals again

**reproduction procedure:**

- Include code to update FecAcc here.

- Modified the “hatch” part so we don’t need WMT anymore. Besides, the habitat variable has to be initialized here for consistency (not in the set-migratory-behaviour procedure).

**set-migratory-behaviour procedure:**

- if evolution is not modelled then males and females set their G to new globals Gpm and Gpf.

- Initialization of Ve moved to set-parameters.

- WMT not needed anymore in the procedure.

**Migration**:

Should anadromous individuals get a boost in quality every time they go to the ocean? Should quality also vary over time for residents? I mean, the difference in accumulated fecundity between anadromous and resident must increase with each reproductive season, but in a linear way (as it is now) or non-linear way.

**Grim-reaper procedure:**

- I made some modifications: (1) you don’t the need the statement “if count turtles > carryingCapacity” since it’s already in the go procedure, (2) we can just kill all surplus individuals in one iteration of the procedure.

**Model outputs?**

- Proportion of residents/anadromous for each sex.

- Population productivity: offspring created each year? Number of spawners? Total abundance?

- Individual level: lifetime fecundity? Accumulated fecundity?

Shall we need to collect results in tables?