Wikiprint Book

Title: Management Strategy Evaluator = *User notes (beta ver. 6.0.6.1112)*

Subject: Ecopath Developer Site - ManagementProcedures

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Management Strategy Evaluator = User notes (beta ver. 6.0.6.1112)

Inputs

Input uncertainty Sets inputs use for the perturbation of variables

Groups

- · CV Coefficient of variation used for perturbation of biomass
- · Kalman weight Kalman weight used for perturbation of biomass

Fleets

- CV Coefficient of variation used for perturbation of effort
- Annual increase in catchability Amount catchability will increase each year

Input reference levels Sets reference levels for performance evaluation and target fishing mortalities

- MSY Uses the results a Maximum Sustainable Yield search to set Biomass limit, Biomass base and F max. for the target fishing mortalities
 Group Evaluation of model runs has not been implemented yet so setting of reference levels has no effect
 - Biomass lower Lower biomass limit
 - · Biomass upper Upper biomass limit
 - · Catch lower Lower catch limit on a group
 - Catch upper Upper catch limit on a group

Fleet

- · Lower Lower catch limit by a fleet
- · Upper Upper catch limit by a fleet

Input regulatory Sets inputs used for the fisheries regulations

Regulatory option Sets how the effort of a fleet will be regulated

- Max effort Not implemented at this time. Caps the effort of a fleet no matter what regulatory option has been chosen
- · Not used No regulation will be used for this fleet
- Effort Warning has not been tested or validated. Effort is regulated by computing target fishing mortality using Biomass limit, Biomass base and F max. from estimated biomass. If target fishing mortality exceeds achieved fishing mortality fishing effort is scaled back.
- Weakest Stock quota Quota for the year is computed from Biomass limit, Biomass base and F Max using estimated biomass. Effort is regulated if any catch (landings + discards) on a group exceeds its quota.
- Strongest stock + discards quota Quota for the year is computed from Biomass limit, Biomass base and F Max using estimated biomass. Effort is regulated if landings on the strongest stock exceed the quota. Bycatch on other stocks is discarded.
- Selective fishing quota still needs explanation
- Fleet Quotas Quota by group and fleet used to compute fleet share of quota on a group.
- Target fishing mort policy Sets parameters for target fishing mortality. Biomass limit Biomass base and F max.
- Fixed escapement Sets fixed escapement biomass of a group. If this value is set then the quota for the year is computed as [estimated biomass] [fix escapement] instead of using the target fishing mortality parameters.

Input effort tracking Sets weights used when evaluating current Ecosim scenario.

- Objectives weights
- Ecological weights
- · Fleet weights

Outputs