Overview of code and data for constructing operating models

1. Construct a base OM for the various trial specifications **RScripts/Step 1 Build base OMI.R**

*This script takes the various sources of data, processes them into the appropriate format for the operating model and compiles them into an Operating Model Input (OMI) object. This can then be modified to match the various reference and robustness operating models of the trial specifications document.*

1. Area definitions **RScripts/Data processing/Area definitions.R**

Out: Data/Processed/Area definitions/AreaDefs

Data/Processed/Area definitions/AreaNames

1. Fleet definitions **Rscripts/Data processing/Define fleets.R**

Out:Data/Processed/Conditioning/Fleets

1. Inverse age-length key P(L|A) **RScripts/Data processing/iALK.R**

Out: Data/Processed/Conditioning/iALK

1. Catch formatting  **RScripts/Data processing/CATDIS.R**

In: CATDIS data (http://www.iccat.int/en/accesingdb.htm) Data/Raw/Catch/cdis5014.csv

Out: Data/Processed/Conditioning/Cobs

1. Master index **Rscripts/Data processing/Master index.R**

In: TII CPUE(http://www.iccat.int/en/accesingdb.htm) Data/Raw/Task2/T2\_errcheck.csv

Out: Data/Processed/Conditioning/MI

1. Partial F (standardized effort) calculation  **Rscripts/Data processing/Partial Fs.R**

Out: Data/Processed/Conditioning/Eobs

1. Fishery CPUE indices **Rscripts/Data processing/Fishery indices.R**

In: Data/Processed/CPUE indices.R

Out: Data/Processed/Conditioning/CPUEobs

1. Size data processing **Rscripts/Data processing/Length observations.R**

In: Data/Raw/Task2/t2szBFT-all\_v1.csv

Out: Data/Processed/Conditioning/CLobs

1. Historical catch formatting **Rscripts/Data processing/Historical catches.R**

In: Data/Raw/Task1/t1nc\_20161114\_bft.csv

Data/Raw/Catch/Hist Trap East.csv

Out: Data/Processed/Conditioning/HCobs

1. Fishery independent indices  **Rscripts/Data processing/FI indices.R**

In: Data/Raw/SSB/Balearic larval 2014.csv

Data/Raw/SSB/Ingram 2014 index.csv

Out: Data/Processed/Conditioning/Iobs

1. PSAT (M. Lauretta’s compiled electronic tagging) **Rscripts/Data processing/PSAT.R**

In: Data/Raw/PSAT/BFT\_etags\_09292016.csv

Out: Data/Processed/Conditioning/PSAT

Data/Processed/Conditioning/PSAT2

1. Stock of origin **Rscripts/Data processing/SOO.R**

In:Data/Raw/SOO/All SOO 29\_7\_2016.csv

Out: Data/Processed/Conditioning/SOOobs

1. Movement definitions  **Rscripts/Data processing/Movement definitions.R**

Out: Data/Processed/Conditioning/movind

Data/Processed/Conditioning/mov1

1. Construct reference operating models **Rscripts/Step 2 Build reference OMIs.R**

**An MSE design table is produced that summarizes the various combinations of assumptions that make up the reference set of operating models. The**