

21 / 24 : 3 1 2 2 : 3 1 2 2

## ABT-MSE Operating model fitting report

*Tom Carruthers*

*September 14, 2016*

### Operating model scenario is

Level 3: Low natural mortality and younger age of maturity for both stocks

Level 1: Steepness of the Beverton Holt Stock recruitment relationship for both stocks assumed to be 0.7

Level 2: Master abundance index calculated excluding Spanish CPUE data

Level 2: Depletion of both stocks inferred by master index declining linearly to a 50% reduction

### Estimated selectivities

Words with markup to indicated `code` or R `function` names.

Some R:

```
OMI@Name # objects in memory and current namespace
```

```
## [1] "21 / 24 : 3 1 2 2 : 3 1 2 2"
```

Now some MSE results:

```
print(Sys.time())
```

```
## [1] "2016-09-14 10:15:08 PDT"
```

### Fit to observed catches

Predicted (line) versus observed (point) catches of Atlantic bluefin (log tonnes)

