WHOM\_SS3\_OM2.2\_MP5.11\_1000\_23

Date: 10-Jul-2020 13.46

SSB (Mt)

| **25%** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 1.15 | 1.15 | 1.12 | 1.07 | 1.03 | 0.98 | 0.94 |
| MT | 1.41 | 1.40 | 1.27 | 1.12 | 1.01 | 0.91 | 0.82 |
| LT | 1.59 | 1.56 | 1.32 | 1.13 | 0.99 | 0.88 | 0.79 |

| **50%** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 1.31 | 1.31 | 1.26 | 1.21 | 1.15 | 1.10 | 1.05 |
| MT | 1.64 | 1.62 | 1.44 | 1.27 | 1.14 | 1.03 | 0.94 |
| LT | 1.91 | 1.83 | 1.52 | 1.30 | 1.14 | 1.01 | 0.92 |

| **75%** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 1.47 | 1.46 | 1.40 | 1.33 | 1.28 | 1.22 | 1.18 |
| MT | 1.93 | 1.89 | 1.66 | 1.47 | 1.32 | 1.19 | 1.09 |
| LT | 2.31 | 2.19 | 1.81 | 1.54 | 1.34 | 1.19 | 1.07 |

Yield (kt)

| **25%** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 50 | 50 | 67 | 91 | 112 | 131 | 147 |
| MT | 50 | 52 | 78 | 98 | 110 | 118 | 120 |
| LT | 50 | 55 | 82 | 99 | 109 | 112 | 112 |

| **Median** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 50 | 52 | 79 | 110 | 136 | 159 | 178 |
| MT | 50 | 57 | 93 | 118 | 135 | 146 | 151 |
| LT | 50 | 62 | 99 | 122 | 135 | 142 | 144 |

| **75%** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 50 | 55 | 93 | 129 | 160 | 186 | 209 |
| MT | 50 | 66 | 112 | 144 | 166 | 179 | 188 |
| LT | 50 | 74 | 120 | 148 | 165 | 175 | 179 |

IAV

| **25%** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 0 | 0.00 | 0.19 | 0.22 | 0.23 | 0.23 | 0.24 |
| MT | 0 | 0.05 | 0.19 | 0.21 | 0.23 | 0.24 | 0.25 |
| LT | 0 | 0.11 | 0.21 | 0.24 | 0.27 | 0.28 | 0.29 |

| **Median** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 0 | 0.05 | 0.27 | 0.32 | 0.33 | 0.33 | 0.34 |
| MT | 0 | 0.13 | 0.27 | 0.29 | 0.32 | 0.33 | 0.35 |
| LT | 0 | 0.18 | 0.27 | 0.30 | 0.33 | 0.35 | 0.37 |

| **75%** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 0 | 0.13 | 0.37 | 0.44 | 0.45 | 0.46 | 0.47 |
| MT | 0 | 0.22 | 0.35 | 0.39 | 0.43 | 0.45 | 0.48 |
| LT | 0 | 0.24 | 0.33 | 0.37 | 0.41 | 0.44 | 0.46 |

FBar

| **25%** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 0.025 | 0.027 | 0.042 | 0.060 | 0.077 | 0.094 | 0.110 |
| MT | 0.019 | 0.025 | 0.044 | 0.062 | 0.078 | 0.092 | 0.103 |
| LT | 0.016 | 0.025 | 0.045 | 0.064 | 0.080 | 0.092 | 0.103 |

| **Median** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 0.028 | 0.030 | 0.046 | 0.067 | 0.088 | 0.108 | 0.126 |
| MT | 0.023 | 0.027 | 0.048 | 0.069 | 0.088 | 0.105 | 0.119 |
| LT | 0.020 | 0.026 | 0.048 | 0.069 | 0.088 | 0.104 | 0.116 |

| **75%** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 0.032 | 0.033 | 0.050 | 0.074 | 0.097 | 0.119 | 0.141 |
| MT | 0.027 | 0.029 | 0.052 | 0.076 | 0.097 | 0.117 | 0.135 |
| LT | 0.024 | 0.028 | 0.051 | 0.074 | 0.095 | 0.113 | 0.129 |

Risk (Type3) to Blim (%)

| **mean** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 2.7 | 2.7 | 2.8 | 3.4 | 4.6 | 6.7 | 10.4 |
| MT | 0.4 | 0.4 | 0.6 | 1.9 | 7.0 | 16.8 | 29.9 |
| LT | 0.2 | 0.2 | 0.6 | 3.4 | 10.4 | 23.1 | 38.9 |

Risk (Type3) to Bpa (%)

| **mean** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 33.4 | 33.5 | 36.9 | 45.5 | 55.2 | 65.2 | 72.4 |
| MT | 8.6 | 8.8 | 16.1 | 33.6 | 55.6 | 72.2 | 82.3 |
| LT | 4.7 | 5.0 | 13.7 | 34.0 | 55.6 | 72.4 | 83.6 |

Extinction Risk (%)

| **mean** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| MT | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| LT | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Settings used

| **class** | **desc** | **value** |
| --- | --- | --- |
| OM | code | OM2.2 |
| OM | desc | WGWIDE19 |
| OM | IM |  |
| OM | SRR | SRR.WG19.SegReg\_Blim.exterm |
| OM | RecAR | TRUE |
| OM | maxRecRes1 | 3 |
| OM | maxRecRes2 | -3 |
| OM | BioYrs1 | 2008 |
| OM | BioYrs2 | 2017 |
| OM | BioConst | FALSE |
| OM | SelYrs1 | 2008 |
| OM | SelYrs2 | 2017 |
| OM | SelConst | FALSE |
| OM | Obs |  |
| OM | refPts.Fpa | 0.074 |
| OM | refPts.Flim | 0.103 |
| OM | refPts.Fmsy | 0.074 |
| OM | refPts.Bpa | 1168272 |
| OM | refPts.Blim | 834480 |
| OM | refPts.MSYBtrigger | 1168272 |
| OM | refPts.Bloss | 761613 |
| OM | pBlim | 0.05 |
| MP | code | MP5.11 |
| MP | desc | ICESHCR minTAC |
| MP | xlab | ICES AR minTAC |
| MP | HCRName | ICES |
| MP | F\_target1 | 0 |
| MP | F\_target2 | 0.025 |
| MP | F\_target3 | 0.05 |
| MP | F\_target4 | 0.075 |
| MP | F\_target5 | 0.1 |
| MP | F\_target6 | 0.125 |
| MP | F\_target7 | 0.15 |
| MP | B\_trigger | MSYBtrigger |
| MP | minTAC | 50000 |
| MP | maxTAC |  |
| MP | TAC\_IAV |  |
| MP | Obs.cvF | 0.22 |
| MP | Obs.phiF | 0.03 |
| MP | Obs.cvSSB | 0.36 |
| MP | Obs.phiSSB | 0.51 |
| OTHER | niters | 1000 |
| OTHER | nyr | 23 |
| OTHER | CU | 2018-2020 |
| OTHER | ST | 2021-2025 |
| OTHER | MT | 2026-2030 |
| OTHER | LT | 2031-2040 |
| OTHER | flstock | WGWIDE19.RData |
| OTHER | flstock\_sim | MSE\_WGWIDE19\_FLStocks\_1k15PG.RData |