WHOM\_SAM\_OM2.3\_MP5.11\_1000\_23

Date: 10-Jul-2020 17.15

SSB (Mt)

| **25%** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 1.13 | 1.13 | 1.10 | 1.04 | 0.99 | 0.94 | 0.90 |
| MT | 1.38 | 1.37 | 1.21 | 1.05 | 0.92 | 0.83 | 0.75 |
| LT | 1.58 | 1.52 | 1.23 | 1.03 | 0.89 | 0.79 | 0.70 |

| **50%** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 1.39 | 1.39 | 1.33 | 1.25 | 1.19 | 1.13 | 1.07 |
| MT | 1.74 | 1.71 | 1.48 | 1.28 | 1.12 | 0.99 | 0.89 |
| LT | 1.98 | 1.83 | 1.51 | 1.26 | 1.08 | 0.96 | 0.86 |

| **75%** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 1.70 | 1.70 | 1.61 | 1.53 | 1.44 | 1.37 | 1.30 |
| MT | 2.22 | 2.12 | 1.82 | 1.58 | 1.39 | 1.23 | 1.10 |
| LT | 2.47 | 2.26 | 1.84 | 1.54 | 1.32 | 1.16 | 1.03 |

Yield (kt)

| **25%** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 50 | 50 | 69 | 94 | 117 | 137 | 155 |
| MT | 50 | 54 | 86 | 108 | 121 | 128 | 131 |
| LT | 50 | 59 | 89 | 105 | 114 | 119 | 120 |

| **Median** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 50 | 53 | 86 | 120 | 150 | 174 | 195 |
| MT | 50 | 63 | 107 | 136 | 153 | 164 | 169 |
| LT | 50 | 71 | 110 | 131 | 143 | 150 | 154 |

| **75%** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 50 | 60 | 106 | 149 | 186 | 218 | 246 |
| MT | 50 | 79 | 133 | 168 | 191 | 206 | 217 |
| LT | 50 | 86 | 135 | 163 | 181 | 191 | 197 |

IAV

| **25%** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 0 | 0.00 | 0.18 | 0.20 | 0.19 | 0.19 | 0.20 |
| MT | 0 | 0.09 | 0.19 | 0.19 | 0.20 | 0.21 | 0.22 |
| LT | 0 | 0.15 | 0.21 | 0.22 | 0.23 | 0.25 | 0.26 |

| **Median** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 0 | 0.07 | 0.25 | 0.28 | 0.28 | 0.27 | 0.27 |
| MT | 0 | 0.18 | 0.25 | 0.26 | 0.27 | 0.27 | 0.29 |
| LT | 0 | 0.21 | 0.26 | 0.27 | 0.29 | 0.31 | 0.32 |

| **75%** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 0 | 0.17 | 0.35 | 0.38 | 0.38 | 0.39 | 0.39 |
| MT | 0 | 0.26 | 0.33 | 0.34 | 0.35 | 0.37 | 0.39 |
| LT | 0 | 0.27 | 0.31 | 0.33 | 0.35 | 0.38 | 0.40 |

FBar

| **25%** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 0.023 | 0.028 | 0.047 | 0.068 | 0.090 | 0.111 | 0.131 |
| MT | 0.016 | 0.025 | 0.047 | 0.068 | 0.089 | 0.107 | 0.124 |
| LT | 0.013 | 0.025 | 0.047 | 0.069 | 0.089 | 0.106 | 0.121 |

| **Median** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 0.028 | 0.030 | 0.05 | 0.074 | 0.098 | 0.121 | 0.145 |
| MT | 0.020 | 0.027 | 0.05 | 0.074 | 0.097 | 0.119 | 0.138 |
| LT | 0.017 | 0.026 | 0.05 | 0.074 | 0.095 | 0.116 | 0.134 |

| **75%** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 0.034 | 0.035 | 0.054 | 0.080 | 0.106 | 0.132 | 0.157 |
| MT | 0.025 | 0.029 | 0.053 | 0.079 | 0.104 | 0.129 | 0.152 |
| LT | 0.021 | 0.028 | 0.053 | 0.078 | 0.102 | 0.125 | 0.146 |

Risk (Type3) to Blim (%)

| **mean** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 1.1 | 1.1 | 1.1 | 1.3 | 1.6 | 1.9 | 2.6 |
| MT | 0.2 | 0.2 | 0.2 | 0.4 | 1.5 | 4.6 | 9.9 |
| LT | 0.0 | 0.0 | 0.2 | 1.3 | 4.3 | 10.0 | 17.3 |

Risk (Type3) to Bpa (%)

| **mean** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 8.7 | 8.7 | 9.1 | 10.8 | 13.5 | 17.7 | 22.3 |
| MT | 2.2 | 2.2 | 3.5 | 8.3 | 18.2 | 32.3 | 45.2 |
| LT | 1.4 | 1.5 | 4.4 | 13.1 | 25.8 | 40.3 | 53.4 |

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 | OM2.3 |
| OM | desc | WGWIDE19\_sam |
| 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 | 0.115 |
| OM | refPts.Flim | 0.161 |
| OM | refPts.Fmsy | 0.115 |
| OM | refPts.Bpa | 856540 |
| OM | refPts.Blim | 611814 |
| OM | refPts.MSYBtrigger | 856540 |
| OM | refPts.Bloss | 604476 |
| 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\_SAM.RData |
| OTHER | flstock\_sim | MSE\_WGWIDE19\_FLStocks\_SAM1000.RData |