WHOM\_SAM\_OM2.3\_MP5.23\_1000\_23

Date: 10-Jul-2020 17.27

SSB (Mt)

| **25%** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 1.16 | 1.15 | 1.12 | 1.08 | 1.05 | 1.02 | 1.01 |
| MT | 1.56 | 1.45 | 1.30 | 1.17 | 1.07 | 0.99 | 0.93 |
| LT | 1.92 | 1.58 | 1.33 | 1.15 | 1.03 | 0.94 | 0.88 |

| **50%** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 1.42 | 1.39 | 1.35 | 1.29 | 1.27 | 1.25 | 1.24 |
| MT | 1.93 | 1.77 | 1.58 | 1.42 | 1.30 | 1.22 | 1.14 |
| LT | 2.30 | 1.89 | 1.59 | 1.38 | 1.24 | 1.13 | 1.05 |

| **75%** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 1.73 | 1.70 | 1.64 | 1.59 | 1.57 | 1.55 | 1.54 |
| MT | 2.35 | 2.17 | 1.93 | 1.75 | 1.61 | 1.52 | 1.47 |
| LT | 2.82 | 2.34 | 1.96 | 1.70 | 1.52 | 1.39 | 1.29 |

Yield (kt)

| **25%** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 0 | 31 | 52 | 69 | 84 | 97 | 108 |
| MT | 0 | 37 | 64 | 81 | 92 | 100 | 108 |
| LT | 0 | 53 | 79 | 89 | 92 | 96 | 96 |

| **Median** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 45 | 49 | 76 | 103 | 124 | 140 | 150 |
| MT | 13 | 55 | 95 | 122 | 142 | 156 | 166 |
| LT | 0 | 67 | 105 | 124 | 132 | 136 | 136 |

| **75%** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 45 | 58 | 96 | 128 | 147 | 150 | 150 |
| MT | 15 | 71 | 125 | 166 | 198 | 226 | 244 |
| LT | 3 | 83 | 131 | 158 | 176 | 183 | 191 |

IAV

| **25%** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 0.2 | 0.15 | 0.15 | 0.16 | 0.17 | 0.19 | 0.20 |
| MT | 0.2 | 0.14 | 0.14 | 0.15 | 0.15 | 0.16 | 0.17 |
| LT | 0.2 | 0.14 | 0.15 | 0.16 | 0.17 | 0.19 | 0.20 |

| **Median** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 0.20 | 0.18 | 0.18 | 0.19 | 0.20 | 0.20 | 0.20 |
| MT | 0.36 | 0.17 | 0.17 | 0.18 | 0.19 | 0.20 | 0.20 |
| LT | 1.29 | 0.16 | 0.17 | 0.19 | 0.22 | 0.25 | 0.27 |

| **75%** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 1.00 | 0.23 | 0.22 | 0.24 | 0.25 | 0.27 | 0.28 |
| MT | 2.03 | 0.20 | 0.20 | 0.21 | 0.26 | 0.29 | 0.31 |
| LT | 2.54 | 0.18 | 0.22 | 0.26 | 0.32 | 0.41 | 0.46 |

FBar

| **25%** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 0 | 0.019 | 0.034 | 0.045 | 0.054 | 0.058 | 0.062 |
| MT | 0 | 0.018 | 0.033 | 0.047 | 0.057 | 0.067 | 0.075 |
| LT | 0 | 0.021 | 0.039 | 0.050 | 0.059 | 0.067 | 0.072 |

| **Median** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 0.019 | 0.027 | 0.044 | 0.060 | 0.070 | 0.077 | 0.080 |
| MT | 0.003 | 0.022 | 0.044 | 0.065 | 0.083 | 0.098 | 0.109 |
| LT | 0.000 | 0.024 | 0.046 | 0.064 | 0.078 | 0.088 | 0.097 |

| **75%** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 0.025 | 0.031 | 0.049 | 0.067 | 0.082 | 0.092 | 0.101 |
| MT | 0.005 | 0.024 | 0.049 | 0.073 | 0.096 | 0.116 | 0.134 |
| LT | 0.001 | 0.025 | 0.050 | 0.073 | 0.093 | 0.110 | 0.123 |

Risk (Type3) to Blim (%)

| **mean** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 0.8 | 0.8 | 0.8 | 0.9 | 1.0 | 1.2 | 1.4 |
| MT | 0.0 | 0.0 | 0.0 | 0.1 | 0.3 | 1.0 | 2.4 |
| LT | 0.0 | 0.0 | 0.0 | 0.4 | 1.2 | 2.6 | 5.3 |

Risk (Type3) to Bpa (%)

| **mean** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 7.2 | 7.5 | 8.0 | 9.0 | 10.4 | 12.0 | 13.3 |
| MT | 0.2 | 0.5 | 1.3 | 4.3 | 8.6 | 14.6 | 20.6 |
| LT | 0.0 | 0.2 | 2.0 | 6.6 | 13.7 | 22.3 | 29.8 |

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 | MP5.23 |
| MP | desc | Double BP HCR |
| MP | xlab | Double BP IAVBtrig |
| MP | HCRName | DoubleBP |
| 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 |  |
| MP | maxTAC |  |
| MP | TAC\_IAV1 | 0.2 |
| MP | TAC\_IAV2 | 0.2 |
| 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 |