WHOM\_SAM\_OM2.3\_MP5.13\_1000\_23

Date: 10-Jul-2020 17.18

SSB (Mt)

| **25%** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 1.16 | 1.14 | 1.10 | 1.05 | 1.01 | 0.98 | 0.95 |
| MT | 1.56 | 1.41 | 1.23 | 1.09 | 0.97 | 0.88 | 0.81 |
| LT | 1.92 | 1.55 | 1.26 | 1.05 | 0.92 | 0.81 | 0.74 |

| **50%** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 1.42 | 1.39 | 1.33 | 1.27 | 1.24 | 1.21 | 1.20 |
| MT | 1.93 | 1.75 | 1.53 | 1.35 | 1.21 | 1.09 | 1.01 |
| LT | 2.30 | 1.87 | 1.53 | 1.29 | 1.12 | 1.00 | 0.90 |

| **75%** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 1.73 | 1.69 | 1.63 | 1.56 | 1.54 | 1.52 | 1.52 |
| MT | 2.35 | 2.15 | 1.88 | 1.67 | 1.53 | 1.42 | 1.34 |
| LT | 2.82 | 2.31 | 1.90 | 1.61 | 1.39 | 1.22 | 1.09 |

Yield (kt)

| **25%** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 0 | 39 | 63 | 87 | 108 | 125 | 138 |
| MT | 0 | 47 | 81 | 105 | 120 | 131 | 139 |
| LT | 0 | 57 | 88 | 103 | 111 | 116 | 118 |

| **Median** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 45 | 51 | 80 | 110 | 132 | 147 | 150 |
| MT | 13 | 58 | 101 | 132 | 157 | 174 | 188 |
| LT | 0 | 69 | 108 | 130 | 143 | 150 | 155 |

| **75%** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 45 | 59 | 98 | 130 | 150 | 150 | 150 |
| MT | 15 | 74 | 128 | 169 | 203 | 229 | 250 |
| LT | 3 | 84 | 134 | 162 | 180 | 191 | 198 |

IAV

| **25%** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 0.2 | 0.14 | 0.14 | 0.15 | 0.16 | 0.17 | 0.19 |
| MT | 0.2 | 0.13 | 0.13 | 0.13 | 0.14 | 0.15 | 0.15 |
| LT | 0.2 | 0.13 | 0.14 | 0.14 | 0.15 | 0.16 | 0.17 |

| **Median** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 0.20 | 0.17 | 0.16 | 0.18 | 0.19 | 0.20 | 0.20 |
| MT | 0.36 | 0.16 | 0.16 | 0.16 | 0.17 | 0.17 | 0.19 |
| LT | 1.29 | 0.15 | 0.16 | 0.17 | 0.18 | 0.20 | 0.23 |

| **75%** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 1.00 | 0.20 | 0.20 | 0.20 | 0.20 | 0.22 | 0.24 |
| MT | 2.03 | 0.18 | 0.18 | 0.19 | 0.20 | 0.23 | 0.25 |
| LT | 2.54 | 0.17 | 0.18 | 0.20 | 0.23 | 0.28 | 0.32 |

FBar

| **25%** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 0 | 0.023 | 0.042 | 0.057 | 0.068 | 0.075 | 0.078 |
| MT | 0 | 0.021 | 0.042 | 0.064 | 0.083 | 0.100 | 0.115 |
| LT | 0 | 0.023 | 0.045 | 0.066 | 0.083 | 0.099 | 0.113 |

| **Median** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 0.019 | 0.027 | 0.046 | 0.064 | 0.078 | 0.089 | 0.098 |
| MT | 0.003 | 0.023 | 0.046 | 0.069 | 0.092 | 0.113 | 0.131 |
| LT | 0.000 | 0.024 | 0.048 | 0.071 | 0.091 | 0.110 | 0.127 |

| **75%** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 0.025 | 0.031 | 0.050 | 0.070 | 0.088 | 0.104 | 0.119 |
| MT | 0.005 | 0.025 | 0.050 | 0.076 | 0.100 | 0.123 | 0.144 |
| LT | 0.001 | 0.026 | 0.051 | 0.076 | 0.099 | 0.121 | 0.141 |

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 | 0.9 | 1.1 | 1.5 | 1.7 | 2.1 |
| MT | 0.0 | 0.0 | 0.0 | 0.2 | 1.2 | 3.6 | 7.2 |
| LT | 0.0 | 0.0 | 0.2 | 1.0 | 3.5 | 8.2 | 14.9 |

Risk (Type3) to Bpa (%)

| **mean** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 7.2 | 7.7 | 8.5 | 10.4 | 12.4 | 15.3 | 17.6 |
| MT | 0.2 | 0.7 | 2.6 | 6.9 | 14.8 | 24.5 | 33.6 |
| LT | 0.0 | 0.4 | 3.5 | 11.6 | 23.1 | 36.0 | 48.3 |

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 | MP5.13 |
| MP | desc | ICESHCR IAV above Btrigger |
| MP | xlab | ICES AR IAV above Btrigger |
| 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 |  |
| 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 |