WHOM\_SS3\_OM2.2\_MP5.13\_1000\_23

Date: 10-Jul-2020 13.49

SSB (Mt)

| **25%** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 1.21 | 1.17 | 1.12 | 1.08 | 1.04 | 1.01 | 0.98 |
| MT | 1.63 | 1.47 | 1.30 | 1.15 | 1.04 | 0.95 | 0.87 |
| LT | 1.97 | 1.62 | 1.36 | 1.17 | 1.02 | 0.91 | 0.82 |

| **50%** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 1.37 | 1.32 | 1.27 | 1.22 | 1.18 | 1.14 | 1.11 |
| MT | 1.87 | 1.66 | 1.48 | 1.32 | 1.19 | 1.08 | 1.00 |
| LT | 2.29 | 1.88 | 1.56 | 1.34 | 1.17 | 1.05 | 0.95 |

| **75%** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 1.53 | 1.47 | 1.41 | 1.36 | 1.32 | 1.29 | 1.27 |
| MT | 2.16 | 1.94 | 1.71 | 1.52 | 1.39 | 1.27 | 1.17 |
| LT | 2.70 | 2.24 | 1.86 | 1.59 | 1.39 | 1.24 | 1.12 |

Yield (kt)

| **25%** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 0 | 32 | 59 | 83 | 103 | 121 | 135 |
| MT | 0 | 43 | 73 | 95 | 109 | 118 | 124 |
| LT | 0 | 49 | 79 | 95 | 105 | 111 | 113 |

| **Median** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 0 | 41 | 74 | 101 | 125 | 142 | 150 |
| MT | 0 | 50 | 88 | 115 | 134 | 147 | 157 |
| LT | 0 | 59 | 96 | 118 | 132 | 140 | 144 |

| **75%** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 24 | 51 | 88 | 119 | 143 | 158 | 178 |
| MT | 0 | 60 | 106 | 139 | 163 | 181 | 193 |
| LT | 0 | 71 | 118 | 144 | 163 | 173 | 179 |

IAV

| **25%** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 0.47 | 0.16 | 0.16 | 0.16 | 0.17 | 0.19 | 0.20 |
| MT | 1.00 | 0.14 | 0.14 | 0.15 | 0.16 | 0.18 | 0.19 |
| LT | 1.49 | 0.14 | 0.15 | 0.16 | 0.18 | 0.21 | 0.23 |

| **Median** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 1.00 | 0.20 | 0.20 | 0.20 | 0.22 | 0.24 | 0.25 |
| MT | 1.59 | 0.17 | 0.18 | 0.19 | 0.21 | 0.24 | 0.26 |
| LT | 2.07 | 0.16 | 0.18 | 0.21 | 0.25 | 0.28 | 0.31 |

| **75%** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 1.69 | 0.31 | 0.31 | 0.32 | 0.35 | 0.37 | 0.40 |
| MT | 2.67 | 0.21 | 0.24 | 0.28 | 0.32 | 0.35 | 0.38 |
| LT | 3.27 | 0.19 | 0.23 | 0.28 | 0.33 | 0.37 | 0.40 |

FBar

| **25%** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 0 | 0.019 | 0.037 | 0.054 | 0.068 | 0.080 | 0.089 |
| MT | 0 | 0.020 | 0.040 | 0.058 | 0.073 | 0.086 | 0.099 |
| LT | 0 | 0.022 | 0.042 | 0.059 | 0.075 | 0.087 | 0.098 |

| **Median** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 0 | 0.023 | 0.042 | 0.060 | 0.076 | 0.090 | 0.103 |
| MT | 0 | 0.022 | 0.044 | 0.065 | 0.084 | 0.101 | 0.115 |
| LT | 0 | 0.024 | 0.046 | 0.066 | 0.083 | 0.097 | 0.111 |

| **75%** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 0.016 | 0.027 | 0.047 | 0.067 | 0.085 | 0.102 | 0.120 |
| MT | 0.000 | 0.025 | 0.049 | 0.072 | 0.094 | 0.113 | 0.132 |
| LT | 0.000 | 0.025 | 0.049 | 0.071 | 0.091 | 0.109 | 0.123 |

Risk (Type3) to Blim (%)

| **mean** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 2.2 | 2.3 | 2.6 | 3.2 | 4.3 | 5.6 | 8.1 |
| MT | 0.0 | 0.0 | 0.2 | 1.4 | 5.2 | 12.5 | 22.1 |
| LT | 0.0 | 0.0 | 0.2 | 2.4 | 8.5 | 19.6 | 33.4 |

Risk (Type3) to Bpa (%)

| **mean** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 27.7 | 30.6 | 35.5 | 43.0 | 50.0 | 55.8 | 60.3 |
| MT | 1.2 | 4.0 | 13.5 | 29.1 | 47.7 | 62.9 | 74.0 |
| LT | 0.1 | 2.1 | 11.2 | 29.4 | 50.3 | 67.4 | 78.8 |

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 | OM2.2 |
| 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 | MP5.13 |
| 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.RData |
| OTHER | flstock\_sim | MSE\_WGWIDE19\_FLStocks\_1k15PG.RData |