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

Date: 08-Jul-2020 08.36

SSB (Mt)

| **25%** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 1.47 | 1.42 | 1.37 | 1.32 | 1.28 | 1.25 | 1.22 |
| MT | 1.87 | 1.68 | 1.48 | 1.32 | 1.19 | 1.09 | 1.01 |
| LT | 2.22 | 1.84 | 1.54 | 1.31 | 1.16 | 1.03 | 0.93 |

| **50%** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 1.64 | 1.60 | 1.54 | 1.49 | 1.45 | 1.43 | 1.40 |
| MT | 2.12 | 1.92 | 1.70 | 1.52 | 1.39 | 1.28 | 1.19 |
| LT | 2.54 | 2.12 | 1.77 | 1.52 | 1.33 | 1.20 | 1.08 |

| **75%** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 1.83 | 1.79 | 1.72 | 1.67 | 1.64 | 1.62 | 1.61 |
| MT | 2.46 | 2.24 | 1.98 | 1.78 | 1.63 | 1.52 | 1.43 |
| LT | 3.00 | 2.52 | 2.12 | 1.81 | 1.58 | 1.42 | 1.28 |

Yield (kt)

| **25%** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 0 | 42 | 73 | 102 | 122 | 138 | 149 |
| MT | 0 | 48 | 83 | 106 | 123 | 135 | 145 |
| LT | 0 | 54 | 85 | 105 | 118 | 124 | 127 |

| **Median** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 24 | 51 | 86 | 116 | 138 | 150 | 150 |
| MT | 0 | 56 | 97 | 127 | 149 | 166 | 179 |
| LT | 0 | 63 | 102 | 127 | 142 | 152 | 158 |

| **75%** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 45 | 59 | 100 | 132 | 150 | 164 | 184 |
| MT | 15 | 66 | 116 | 155 | 185 | 209 | 228 |
| LT | 1 | 75 | 124 | 156 | 176 | 190 | 198 |

IAV

| **25%** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 0.2 | 0.15 | 0.14 | 0.15 | 0.16 | 0.18 | 0.20 |
| MT | 0.2 | 0.14 | 0.14 | 0.15 | 0.15 | 0.16 | 0.17 |
| LT | 0.9 | 0.14 | 0.14 | 0.15 | 0.17 | 0.18 | 0.21 |

| **Median** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 0.52 | 0.18 | 0.17 | 0.18 | 0.20 | 0.20 | 0.20 |
| MT | 1.31 | 0.16 | 0.17 | 0.18 | 0.19 | 0.20 | 0.22 |
| LT | 1.82 | 0.15 | 0.16 | 0.18 | 0.21 | 0.24 | 0.27 |

| **75%** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 1.28 | 0.23 | 0.22 | 0.24 | 0.26 | 0.29 | 0.33 |
| MT | 2.36 | 0.19 | 0.21 | 0.23 | 0.26 | 0.29 | 0.31 |
| LT | 2.82 | 0.17 | 0.20 | 0.24 | 0.29 | 0.32 | 0.36 |

FBar

| **25%** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 0 | 0.022 | 0.040 | 0.057 | 0.068 | 0.076 | 0.080 |
| MT | 0 | 0.021 | 0.042 | 0.061 | 0.078 | 0.094 | 0.109 |
| LT | 0 | 0.022 | 0.044 | 0.062 | 0.079 | 0.093 | 0.106 |

| **Median** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 0.014 | 0.026 | 0.045 | 0.063 | 0.076 | 0.087 | 0.097 |
| MT | 0.000 | 0.023 | 0.046 | 0.068 | 0.088 | 0.107 | 0.124 |
| LT | 0.000 | 0.024 | 0.047 | 0.068 | 0.087 | 0.104 | 0.119 |

| **75%** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 0.021 | 0.029 | 0.049 | 0.069 | 0.084 | 0.100 | 0.117 |
| MT | 0.005 | 0.025 | 0.050 | 0.075 | 0.099 | 0.120 | 0.139 |
| LT | 0.000 | 0.025 | 0.050 | 0.073 | 0.094 | 0.114 | 0.131 |

Risk (Type3) to Blim (%)

| **mean** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 0.3 | 0.3 | 0.4 | 0.5 | 0.5 | 0.8 | 1.2 |
| MT | 0.0 | 0.0 | 0.0 | 0.1 | 0.7 | 3.3 | 8.0 |
| LT | 0.0 | 0.0 | 0.0 | 0.3 | 2.4 | 8.2 | 17.3 |

Risk (Type3) to Bpa (%)

| **mean** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 5.7 | 6.2 | 7.5 | 9.8 | 12.9 | 16.2 | 20.3 |
| MT | 0.2 | 0.5 | 2.9 | 11.0 | 24.0 | 36.8 | 48.2 |
| LT | 0.0 | 0.1 | 3.6 | 14.8 | 32.0 | 48.2 | 62.1 |

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\_15PG.RData |