WHOM\_SS\_OM2.2\_MP5.23\_1000\_23

Date: 08-Jul-2020 08.40

SSB (Mt)

| **25%** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 1.47 | 1.45 | 1.40 | 1.36 | 1.33 | 1.31 | 1.30 |
| MT | 1.86 | 1.73 | 1.55 | 1.42 | 1.31 | 1.23 | 1.17 |
| LT | 2.15 | 1.85 | 1.61 | 1.44 | 1.31 | 1.21 | 1.14 |

| **50%** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 1.64 | 1.61 | 1.57 | 1.52 | 1.50 | 1.48 | 1.47 |
| MT | 2.10 | 1.95 | 1.78 | 1.64 | 1.53 | 1.43 | 1.36 |
| LT | 2.54 | 2.16 | 1.86 | 1.66 | 1.52 | 1.40 | 1.31 |

| **75%** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 1.83 | 1.81 | 1.75 | 1.70 | 1.68 | 1.67 | 1.66 |
| MT | 2.48 | 2.31 | 2.10 | 1.93 | 1.81 | 1.72 | 1.64 |
| LT | 3.01 | 2.57 | 2.20 | 1.97 | 1.80 | 1.66 | 1.55 |

Yield (kt)

| **25%** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 0 | 29 | 50 | 70 | 84 | 97 | 109 |
| MT | 0 | 34 | 58 | 74 | 87 | 97 | 104 |
| LT | 0 | 47 | 70 | 83 | 89 | 96 | 101 |

| **Median** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 24 | 48 | 78 | 104 | 124 | 138 | 149 |
| MT | 0 | 50 | 84 | 109 | 128 | 142 | 154 |
| LT | 0 | 60 | 94 | 112 | 121 | 128 | 133 |

| **75%** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 45 | 57 | 96 | 126 | 145 | 150 | 150 |
| MT | 15 | 63 | 109 | 145 | 173 | 196 | 216 |
| LT | 3 | 74 | 120 | 146 | 161 | 174 | 181 |

IAV

| **25%** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 0.20 | 0.16 | 0.15 | 0.16 | 0.18 | 0.20 | 0.20 |
| MT | 0.20 | 0.15 | 0.16 | 0.16 | 0.18 | 0.19 | 0.20 |
| LT | 0.36 | 0.14 | 0.15 | 0.17 | 0.20 | 0.22 | 0.24 |

| **Median** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 0.47 | 0.20 | 0.20 | 0.20 | 0.20 | 0.22 | 0.23 |
| MT | 1.28 | 0.19 | 0.20 | 0.20 | 0.23 | 0.25 | 0.28 |
| LT | 1.81 | 0.17 | 0.19 | 0.23 | 0.26 | 0.30 | 0.36 |

| **75%** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 1.31 | 0.34 | 0.34 | 0.34 | 0.36 | 0.39 | 0.44 |
| MT | 2.23 | 0.21 | 0.27 | 0.31 | 0.36 | 0.41 | 0.48 |
| LT | 2.76 | 0.21 | 0.26 | 0.34 | 0.42 | 0.49 | 0.56 |

FBar

| **25%** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 0 | 0.015 | 0.028 | 0.040 | 0.048 | 0.055 | 0.062 |
| MT | 0 | 0.015 | 0.027 | 0.038 | 0.048 | 0.056 | 0.063 |
| LT | 0 | 0.019 | 0.033 | 0.043 | 0.051 | 0.058 | 0.066 |

| **Median** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 0.014 | 0.024 | 0.041 | 0.056 | 0.066 | 0.071 | 0.076 |
| MT | 0.000 | 0.021 | 0.040 | 0.057 | 0.071 | 0.083 | 0.095 |
| LT | 0.000 | 0.023 | 0.042 | 0.057 | 0.067 | 0.076 | 0.084 |

| **75%** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 0.021 | 0.028 | 0.047 | 0.064 | 0.075 | 0.084 | 0.090 |
| MT | 0.005 | 0.024 | 0.048 | 0.069 | 0.090 | 0.108 | 0.123 |
| LT | 0.001 | 0.025 | 0.048 | 0.068 | 0.083 | 0.097 | 0.108 |

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 | 0.3 | 0.3 | 0.4 | 0.5 | 0.7 |
| MT | 0.0 | 0.0 | 0.1 | 0.2 | 0.4 | 0.9 | 2.2 |
| LT | 0.0 | 0.0 | 0.0 | 0.1 | 0.6 | 1.9 | 4.4 |

Risk (Type3) to Bpa (%)

| **mean** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 6.1 | 6.5 | 7.3 | 8.7 | 10.1 | 11.9 | 13.6 |
| MT | 0.4 | 0.6 | 1.8 | 5.3 | 12.2 | 19.6 | 27.6 |
| LT | 0.0 | 0.3 | 1.5 | 7.7 | 15.6 | 25.3 | 35.4 |

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 | OM2.2 |
| 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 | MP5.23 |
| 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.RData |
| OTHER | flstock\_sim | MSE\_WGWIDE19\_FLStocks\_15PG.RData |