WHOM\_SS\_OM2.2\_MP5.11\_1000\_23

Date: 05-Jul-2020 20.43

SSB (Mt)

| **25%** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 1.44 | 1.43 | 1.38 | 1.32 | 1.25 | 1.20 | 1.15 |
| MT | 1.68 | 1.66 | 1.47 | 1.29 | 1.15 | 1.03 | 0.93 |
| LT | 1.79 | 1.74 | 1.47 | 1.26 | 1.10 | 0.98 | 0.88 |

| **50%** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 1.61 | 1.60 | 1.53 | 1.46 | 1.39 | 1.33 | 1.27 |
| MT | 1.92 | 1.88 | 1.66 | 1.47 | 1.31 | 1.18 | 1.07 |
| LT | 2.18 | 2.07 | 1.73 | 1.47 | 1.29 | 1.14 | 1.03 |

| **75%** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 1.81 | 1.80 | 1.72 | 1.63 | 1.56 | 1.49 | 1.43 |
| MT | 2.29 | 2.23 | 1.95 | 1.72 | 1.53 | 1.38 | 1.25 |
| LT | 2.65 | 2.46 | 2.05 | 1.73 | 1.49 | 1.32 | 1.19 |

Yield (kt)

| **25%** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 50 | 51 | 78 | 109 | 135 | 158 | 177 |
| MT | 50 | 54 | 86 | 108 | 122 | 130 | 134 |
| LT | 50 | 57 | 88 | 106 | 117 | 124 | 125 |

| **Median** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 50 | 54 | 92 | 128 | 160 | 187 | 209 |
| MT | 50 | 61 | 102 | 131 | 150 | 162 | 168 |
| LT | 50 | 67 | 107 | 130 | 144 | 153 | 157 |

| **75%** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 50 | 59 | 105 | 147 | 183 | 215 | 241 |
| MT | 50 | 71 | 123 | 159 | 184 | 199 | 210 |
| LT | 50 | 78 | 127 | 157 | 177 | 189 | 195 |

IAV

| **25%** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 0 | 0.03 | 0.20 | 0.20 | 0.20 | 0.21 | 0.21 |
| MT | 0 | 0.10 | 0.19 | 0.20 | 0.21 | 0.22 | 0.23 |
| LT | 0 | 0.13 | 0.21 | 0.23 | 0.25 | 0.27 | 0.29 |

| **Median** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 0 | 0.11 | 0.27 | 0.29 | 0.30 | 0.30 | 0.30 |
| MT | 0 | 0.17 | 0.26 | 0.28 | 0.29 | 0.31 | 0.32 |
| LT | 0 | 0.20 | 0.27 | 0.29 | 0.31 | 0.34 | 0.36 |

| **75%** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 0 | 0.18 | 0.37 | 0.40 | 0.41 | 0.41 | 0.41 |
| MT | 0 | 0.25 | 0.34 | 0.37 | 0.40 | 0.43 | 0.45 |
| LT | 0 | 0.26 | 0.32 | 0.36 | 0.39 | 0.42 | 0.45 |

FBar

| **25%** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 0.022 | 0.026 | 0.044 | 0.065 | 0.085 | 0.104 | 0.123 |
| MT | 0.018 | 0.025 | 0.045 | 0.065 | 0.084 | 0.100 | 0.113 |
| LT | 0.015 | 0.025 | 0.047 | 0.067 | 0.084 | 0.099 | 0.112 |

| **Median** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 0.025 | 0.028 | 0.048 | 0.071 | 0.093 | 0.116 | 0.137 |
| MT | 0.021 | 0.026 | 0.049 | 0.071 | 0.093 | 0.112 | 0.128 |
| LT | 0.019 | 0.026 | 0.049 | 0.072 | 0.092 | 0.109 | 0.124 |

| **75%** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 0.028 | 0.030 | 0.052 | 0.078 | 0.103 | 0.127 | 0.151 |
| MT | 0.024 | 0.028 | 0.053 | 0.078 | 0.101 | 0.123 | 0.143 |
| LT | 0.023 | 0.028 | 0.052 | 0.076 | 0.099 | 0.119 | 0.138 |

Risk (Type3) to Blim (%)

| **mean** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 0.4 | 0.4 | 0.4 | 0.5 | 0.7 | 1.2 | 2.1 |
| MT | 0.1 | 0.1 | 0.1 | 0.5 | 1.5 | 5.3 | 12.9 |
| LT | 0.0 | 0.0 | 0.1 | 0.8 | 3.9 | 12.3 | 22.7 |

Risk (Type3) to Bpa (%)

| **mean** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 7.6 | 7.6 | 8.6 | 11.4 | 16.3 | 24.6 | 33.6 |
| MT | 1.9 | 1.9 | 3.9 | 13.1 | 30.5 | 48.6 | 64.2 |
| LT | 1.2 | 1.3 | 5.5 | 19.3 | 37.7 | 56.0 | 70.3 |

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 | OM2.2 |
| 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 | MP5.11 |
| MP | desc | ICESHCR minTAC |
| MP | xlab | ICES AR minTAC |
| 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 | 50000 |
| MP | maxTAC |  |
| MP | TAC\_IAV |  |
| 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 |