WHOM\_SS\_OM2.2\_MP5.10\_1000\_23

Date: 05-Jul-2020 20.40

SSB (Mt)

| **25%** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 1.51 | 1.44 | 1.37 | 1.30 | 1.25 | 1.19 | 1.15 |
| MT | 1.95 | 1.68 | 1.46 | 1.28 | 1.13 | 1.02 | 0.93 |
| LT | 2.26 | 1.82 | 1.51 | 1.29 | 1.12 | 1.00 | 0.89 |

| **50%** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 1.70 | 1.61 | 1.53 | 1.46 | 1.39 | 1.33 | 1.27 |
| MT | 2.22 | 1.91 | 1.67 | 1.47 | 1.32 | 1.19 | 1.08 |
| LT | 2.60 | 2.09 | 1.73 | 1.47 | 1.29 | 1.15 | 1.04 |

| **75%** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 1.90 | 1.80 | 1.71 | 1.63 | 1.55 | 1.48 | 1.41 |
| MT | 2.58 | 2.23 | 1.94 | 1.71 | 1.53 | 1.36 | 1.24 |
| LT | 3.08 | 2.50 | 2.08 | 1.76 | 1.53 | 1.36 | 1.22 |

Yield (kt)

| **25%** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 0 | 42 | 78 | 109 | 136 | 158 | 177 |
| MT | 0 | 51 | 86 | 109 | 123 | 131 | 134 |
| LT | 0 | 56 | 89 | 108 | 119 | 124 | 127 |

| **Median** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 0 | 48 | 90 | 126 | 157 | 184 | 205 |
| MT | 0 | 60 | 101 | 129 | 148 | 160 | 167 |
| LT | 0 | 65 | 106 | 130 | 146 | 155 | 160 |

| **75%** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 0 | 57 | 106 | 148 | 184 | 215 | 241 |
| MT | 0 | 71 | 121 | 156 | 180 | 197 | 207 |
| LT | 0 | 78 | 127 | 158 | 179 | 191 | 199 |

IAV

| **25%** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | NA | 0.22 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 |
| MT | NA | 0.20 | 0.21 | 0.22 | 0.22 | 0.24 | 0.25 |
| LT | NA | 0.21 | 0.22 | 0.24 | 0.26 | 0.28 | 0.29 |

| **Median** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | NA | 0.30 | 0.30 | 0.30 | 0.29 | 0.29 | 0.30 |
| MT | NA | 0.28 | 0.28 | 0.29 | 0.30 | 0.32 | 0.34 |
| LT | NA | 0.27 | 0.28 | 0.31 | 0.33 | 0.35 | 0.37 |

| **75%** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | NA | 0.40 | 0.40 | 0.40 | 0.40 | 0.40 | 0.40 |
| MT | NA | 0.36 | 0.38 | 0.39 | 0.41 | 0.43 | 0.46 |
| LT | NA | 0.34 | 0.35 | 0.38 | 0.41 | 0.44 | 0.48 |

FBar

| **25%** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 0 | 0.022 | 0.044 | 0.065 | 0.085 | 0.104 | 0.123 |
| MT | 0 | 0.023 | 0.045 | 0.065 | 0.082 | 0.098 | 0.110 |
| LT | 0 | 0.024 | 0.046 | 0.066 | 0.084 | 0.099 | 0.111 |

| **Median** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 0 | 0.024 | 0.048 | 0.072 | 0.094 | 0.117 | 0.137 |
| MT | 0 | 0.025 | 0.049 | 0.071 | 0.092 | 0.112 | 0.127 |
| LT | 0 | 0.025 | 0.049 | 0.071 | 0.092 | 0.110 | 0.125 |

| **75%** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 0 | 0.026 | 0.052 | 0.078 | 0.103 | 0.127 | 0.151 |
| MT | 0 | 0.027 | 0.053 | 0.078 | 0.101 | 0.123 | 0.144 |
| LT | 0 | 0.026 | 0.052 | 0.076 | 0.098 | 0.119 | 0.137 |

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 | 0.6 | 0.9 | 1.9 |
| MT | 0.0 | 0.0 | 0.0 | 0.1 | 1.1 | 5.6 | 13.7 |
| LT | 0.0 | 0.0 | 0.0 | 0.4 | 3.4 | 10.5 | 21.2 |

Risk (Type3) to Bpa (%)

| **mean** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 5.3 | 5.9 | 7.5 | 10.8 | 16.5 | 24.1 | 33.5 |
| MT | 0.1 | 0.4 | 3.3 | 13.8 | 31.1 | 49.0 | 63.8 |
| LT | 0.0 | 0.1 | 4.2 | 17.4 | 36.3 | 54.8 | 68.4 |

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 | MP5.10 |
| MP | desc | ICESHCR |
| MP | xlab | ICES AR |
| 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\_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 |