OM2.2\_MP2.2\_1000\_20

Date: 26-Jun-2020 14.46

SSB (Mt)

| **25%** | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** | **0.175** | **0.2** |
| ST | 1.42 | 1.41 | 1.36 | 1.30 | 1.28 | 1.27 | 1.26 | 1.27 | 1.27 |
| MT | 1.78 | 1.65 | 1.44 | 1.26 | 1.14 | 1.06 | 1.01 | 0.97 | 0.94 |
| LT | 1.58 | 1.31 | 1.04 | 0.86 | 0.73 | 0.63 | 0.56 | 0.49 | 0.44 |

| **50%** | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** | **0.175** | **0.2** |
| ST | 1.61 | 1.60 | 1.53 | 1.48 | 1.46 | 1.46 | 1.46 | 1.46 | 1.46 |
| MT | 2.05 | 1.90 | 1.66 | 1.47 | 1.34 | 1.25 | 1.19 | 1.15 | 1.12 |
| LT | 1.87 | 1.54 | 1.23 | 1.01 | 0.85 | 0.73 | 0.64 | 0.58 | 0.52 |

| **75%** | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** | **0.175** | **0.2** |
| ST | 1.80 | 1.79 | 1.71 | 1.66 | 1.66 | 1.66 | 1.66 | 1.66 | 1.66 |
| MT | 2.39 | 2.22 | 1.96 | 1.76 | 1.61 | 1.51 | 1.45 | 1.42 | 1.39 |
| LT | 2.20 | 1.82 | 1.47 | 1.20 | 1.01 | 0.87 | 0.76 | 0.68 | 0.61 |

Yield (kt)

| **25%** | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** | **0.175** | **0.2** |
| ST | 38 | 48 | 81 | 110 | 132 | 144 | 150 | 150 | 150 |
| MT | 9 | 49 | 86 | 113 | 131 | 145 | 158 | 169 | 180 |
| LT | 2 | 39 | 57 | 62 | 63 | 64 | 64 | 64 | 64 |

| **Median** | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** | **0.175** | **0.2** |
| ST | 38 | 54 | 91 | 123 | 143 | 150 | 150 | 150 | 150 |
| MT | 9 | 57 | 99 | 131 | 157 | 181 | 201 | 215 | 229 |
| LT | 2 | 48 | 72 | 82 | 85 | 85 | 85 | 85 | 85 |

| **75%** | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** | **0.175** | **0.2** |
| ST | 38 | 59 | 103 | 135 | 150 | 150 | 150 | 150 | 150 |
| MT | 9 | 66 | 116 | 154 | 188 | 219 | 245 | 266 | 284 |
| LT | 2 | 57 | 90 | 104 | 110 | 113 | 114 | 115 | 118 |

IAV

| **25%** | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** | **0.175** | **0.2** |
| ST | 0.25 | 0.14 | 0.12 | 0.14 | 0.18 | 0.20 | 0.20 | 0.20 | 0.20 |
| MT | 0.25 | 0.12 | 0.12 | 0.12 | 0.12 | 0.13 | 0.15 | 0.16 | 0.17 |
| LT | 0.25 | 0.13 | 0.15 | 0.17 | 0.18 | 0.19 | 0.20 | 0.21 | 0.22 |

| **Median** | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** | **0.175** | **0.2** |
| ST | 0.25 | 0.18 | 0.17 | 0.19 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 |
| MT | 0.25 | 0.16 | 0.16 | 0.16 | 0.16 | 0.17 | 0.18 | 0.19 | 0.20 |
| LT | 0.25 | 0.16 | 0.18 | 0.20 | 0.21 | 0.22 | 0.23 | 0.23 | 0.24 |

| **75%** | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** | **0.175** | **0.2** |
| ST | 0.25 | 0.22 | 0.21 | 0.21 | 0.23 | 0.24 | 0.22 | 0.20 | 0.20 |
| MT | 0.25 | 0.20 | 0.20 | 0.20 | 0.20 | 0.21 | 0.22 | 0.22 | 0.23 |
| LT | 0.25 | 0.20 | 0.21 | 0.23 | 0.24 | 0.24 | 0.25 | 0.25 | 0.25 |

FBar

| **25%** | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** | **0.175** | **0.2** |
| ST | 0.018 | 0.026 | 0.046 | 0.063 | 0.072 | 0.076 | 0.075 | 0.075 | 0.075 |
| MT | 0.003 | 0.023 | 0.046 | 0.068 | 0.089 | 0.107 | 0.124 | 0.139 | 0.152 |
| LT | 0.001 | 0.023 | 0.043 | 0.057 | 0.069 | 0.078 | 0.087 | 0.097 | 0.107 |

| **Median** | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** | **0.175** | **0.2** |
| ST | 0.020 | 0.027 | 0.049 | 0.068 | 0.079 | 0.085 | 0.087 | 0.086 | 0.086 |
| MT | 0.004 | 0.024 | 0.049 | 0.073 | 0.096 | 0.117 | 0.136 | 0.153 | 0.167 |
| LT | 0.001 | 0.025 | 0.047 | 0.065 | 0.079 | 0.092 | 0.105 | 0.117 | 0.133 |

| **75%** | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** | **0.175** | **0.2** |
| ST | 0.023 | 0.029 | 0.052 | 0.072 | 0.086 | 0.094 | 0.100 | 0.101 | 0.101 |
| MT | 0.004 | 0.026 | 0.051 | 0.077 | 0.101 | 0.125 | 0.146 | 0.164 | 0.179 |
| LT | 0.001 | 0.026 | 0.051 | 0.072 | 0.091 | 0.109 | 0.127 | 0.148 | 0.176 |

Risk (Type3) to Blim (%)

| **mean** | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** | **0.175** | **0.2** |
| ST | 0.3 | 0.3 | 0.3 | 0.3 | 0.5 | 0.7 | 0.9 | 1.0 | 1.1 |
| MT | 0.0 | 0.0 | 0.0 | 0.3 | 1.4 | 4.0 | 7.5 | 12.3 | 17.1 |
| LT | 0.0 | 1.4 | 12.6 | 33.8 | 52.8 | 66.0 | 75.7 | 81.6 | 86.1 |

Risk (Type3) to Bpa (%)

| **mean** | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** | **0.175** | **0.2** |
| ST | 7.6 | 7.6 | 8.6 | 11.9 | 14.8 | 15.5 | 15.6 | 15.5 | 15.3 |
| MT | 0.6 | 1.0 | 4.8 | 16.0 | 29.3 | 40.7 | 48.8 | 53.1 | 56.4 |
| LT | 4.1 | 19.0 | 46.5 | 68.4 | 81.0 | 88.5 | 92.6 | 95.0 | 96.0 |

Extinction Risk (%)

| **mean** | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.025** | **0.05** | **0.075** | **0.1** | **0.125** | **0.15** | **0.175** | **0.2** |
| ST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 |
| MT | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 |
| LT | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.1 | 0.5 |

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 | MP2.2 |
| MP | desc | ICESHCR with IAV |
| MP | xlab | ICES AR with IAV |
| 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 | F\_target8 | 0.175 |
| MP | F\_target9 | 0.2 |
| MP | B\_trigger | MSYBtrigger |
| MP | minTAC |  |
| MP | maxTAC |  |
| MP | TAC\_IAV1 | 0.2 |
| MP | TAC\_IAV2 | 0.25 |
| MP | Obs.cvF | 0.3 |
| MP | Obs.phiF | 0.3 |
| MP | Obs.cvSSB | 0 |
| MP | Obs.phiSSB | 0 |
| OTHER | niters | 1000 |
| OTHER | nyr | 20 |
| OTHER | ST | 2021-2025 |
| OTHER | MT | 2026-2030 |
| OTHER | LT | 2031-2037 |
| OTHER | flstock file | WGWIDE19.RData |
| OTHER | flstock sim file | MSE\_WGWIDE19\_FLStocks\_15PG.RData |