OM2.2\_MP2.1\_100\_20

Date: 24-Jun-2020 17.22

SSB (Mt)

| **25%** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.05** | **0.074** | **0.1** | **0.115** | **0.2** | **0.3** |
| ST | 1.53 | 1.35 | 1.28 | 1.22 | 1.18 | 1.04 | 0.91 |
| MT | 1.93 | 1.41 | 1.24 | 1.09 | 1.03 | 0.78 | 0.61 |
| LT | 2.32 | 1.46 | 1.22 | 1.05 | 0.98 | 0.72 | 0.54 |

| **50%** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.05** | **0.074** | **0.1** | **0.115** | **0.2** | **0.3** |
| ST | 1.69 | 1.50 | 1.44 | 1.36 | 1.32 | 1.15 | 1.00 |
| MT | 2.25 | 1.67 | 1.44 | 1.25 | 1.17 | 0.88 | 0.69 |
| LT | 2.62 | 1.72 | 1.44 | 1.22 | 1.13 | 0.86 | 0.65 |

| **75%** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.05** | **0.074** | **0.1** | **0.115** | **0.2** | **0.3** |
| ST | 1.96 | 1.76 | 1.68 | 1.59 | 1.54 | 1.32 | 1.14 |
| MT | 2.59 | 1.94 | 1.68 | 1.45 | 1.35 | 0.99 | 0.79 |
| LT | 2.86 | 1.95 | 1.67 | 1.44 | 1.33 | 0.98 | 0.75 |

Yield (kt)

| **25%** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.05** | **0.074** | **0.1** | **0.115** | **0.2** | **0.3** |
| ST | 0 | 80 | 111 | 138 | 154 | 204 | 240 |
| MT | 0 | 90 | 116 | 129 | 133 | 131 | 122 |
| LT | 0 | 96 | 120 | 130 | 130 | 123 | 101 |

| **Median** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.05** | **0.074** | **0.1** | **0.115** | **0.2** | **0.3** |
| ST | 0 | 94 | 131 | 165 | 183 | 246 | 291 |
| MT | 0 | 106 | 137 | 159 | 164 | 174 | 159 |
| LT | 0 | 112 | 138 | 152 | 157 | 165 | 138 |

| **75%** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.05** | **0.074** | **0.1** | **0.115** | **0.2** | **0.3** |
| ST | 0 | 107 | 150 | 190 | 211 | 296 | 344 |
| MT | 0 | 121 | 154 | 182 | 195 | 214 | 202 |
| LT | 0 | 126 | 159 | 179 | 187 | 203 | 180 |

IAV (kt)

| **25%** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.05** | **0.074** | **0.1** | **0.115** | **0.2** | **0.3** |
| ST | NA | 0.23 | 0.22 | 0.22 | 0.22 | 0.24 | 0.27 |
| MT | NA | 0.25 | 0.26 | 0.26 | 0.25 | 0.28 | 0.28 |
| LT | NA | 0.25 | 0.25 | 0.26 | 0.26 | 0.27 | 0.28 |

| **Median** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.05** | **0.074** | **0.1** | **0.115** | **0.2** | **0.3** |
| ST | NA | 0.34 | 0.32 | 0.31 | 0.30 | 0.30 | 0.33 |
| MT | NA | 0.35 | 0.35 | 0.35 | 0.35 | 0.36 | 0.36 |
| LT | NA | 0.30 | 0.31 | 0.31 | 0.32 | 0.34 | 0.34 |

| **75%** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.05** | **0.074** | **0.1** | **0.115** | **0.2** | **0.3** |
| ST | NA | 0.42 | 0.42 | 0.41 | 0.42 | 0.40 | 0.41 |
| MT | NA | 0.42 | 0.42 | 0.43 | 0.43 | 0.45 | 0.46 |
| LT | NA | 0.40 | 0.40 | 0.41 | 0.41 | 0.43 | 0.43 |

FBar

| **25%** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.05** | **0.074** | **0.1** | **0.115** | **0.2** | **0.3** |
| ST | 0 | 0.044 | 0.066 | 0.089 | 0.101 | 0.166 | 0.223 |
| MT | 0 | 0.046 | 0.066 | 0.088 | 0.098 | 0.133 | 0.160 |
| LT | 0 | 0.049 | 0.071 | 0.091 | 0.099 | 0.138 | 0.151 |

| **Median** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.05** | **0.074** | **0.1** | **0.115** | **0.2** | **0.3** |
| ST | 0 | 0.050 | 0.074 | 0.099 | 0.113 | 0.182 | 0.243 |
| MT | 0 | 0.052 | 0.075 | 0.098 | 0.112 | 0.155 | 0.186 |
| LT | 0 | 0.053 | 0.077 | 0.101 | 0.113 | 0.154 | 0.174 |

| **75%** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.05** | **0.074** | **0.1** | **0.115** | **0.2** | **0.3** |
| ST | 0 | 0.056 | 0.083 | 0.110 | 0.124 | 0.201 | 0.269 |
| MT | 0 | 0.058 | 0.085 | 0.111 | 0.123 | 0.178 | 0.212 |
| LT | 0 | 0.058 | 0.084 | 0.107 | 0.119 | 0.171 | 0.198 |

Risk (Type3) to Blim (%)

| **mean** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.05** | **0.074** | **0.1** | **0.115** | **0.2** | **0.3** |
| ST | 0.6 | 0.8 | 1.4 | 1.8 | 2.8 | 11.2 | 33.2 |
| MT | 0.0 | 0.0 | 1.2 | 3.8 | 5.8 | 42.4 | 78.6 |
| LT | 0.0 | 0.0 | 0.4 | 4.9 | 8.7 | 53.3 | 87.7 |

Risk (Type3) to Bpa (%)

| **mean** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.05** | **0.074** | **0.1** | **0.115** | **0.2** | **0.3** |
| ST | 7.4 | 11.8 | 15.2 | 21.6 | 28.2 | 53.4 | 71.4 |
| MT | 0.2 | 6.8 | 15.8 | 37.2 | 50.8 | 89.6 | 98.6 |
| LT | 0.0 | 7.0 | 24.0 | 45.0 | 56.6 | 92.7 | 99.6 |

Extinction Risk (%)

| **mean** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0** | **0.05** | **0.074** | **0.1** | **0.115** | **0.2** | **0.3** |
| 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 | MP2.1 |
| MP | desc | ICESHCR |
| MP | xlab | ICES AR |
| MP | HCRName | ICES |
| MP | F\_target1 | 0 |
| MP | F\_target2 | 0.05 |
| MP | F\_target3 | 0.074 |
| MP | F\_target4 | 0.1 |
| MP | F\_target5 | 0.115 |
| MP | F\_target6 | 0.2 |
| MP | F\_target7 | 0.3 |
| MP | B\_trigger | MSYBtrigger |
| MP | minTAC |  |
| MP | maxTAC |  |
| MP | TAC\_IAV |  |
| MP | Obs.cvF | 0.3 |
| MP | Obs.phiF | 0.3 |
| MP | Obs.cvSSB | 0 |
| MP | Obs.phiSSB | 0 |
| OTHER | niters | 100 |
| 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 |