Depletion and F plots

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[1] “Supplementary Figure 3a. Time-series of spawning stock depletion as determined from the operating model (OM; left) and terminal estimation model in the EBS under experiment 1. Depletion under equilibrium given no fishing is indicated by the black line and target and limit depletion is indicated by the blue and red lines, respectively.” [1] “newpar3a.1. EBS - Fix M EM: HCR 1a (NPFMC)”

| Scenario | Operating.model | Estimation.model |
| --- | --- | --- |
| SS fix M OM newline Fix M EM: HCR 1a (NPFMC) |  |  |
| SS est M OM newline Fix M EM: HCR 1a (NPFMC) |  |  |
| MS OM newline Fix M EM: HCR 1a (NPFMC) |  |  |

“newpar3a.2. EBS - Fix M EM: HCR 1b (NPFMC)”

| Scenario | Operating.model | Estimation.model |
| --- | --- | --- |
| SS fix M OM newline Fix M EM: HCR 1b (NPFMC) |  |  |
| SS est M OM newline Fix M EM: HCR 1b (NPFMC) |  |  |
| MS OM newline Fix M EM: HCR 1b (NPFMC) |  |  |

“newpar3a.3. EBS - Est M EM: HCR 1a (NPFMC)”

| Scenario | Operating.model | Estimation.model |
| --- | --- | --- |
| SS fix M OM newline Est M EM: HCR 1a (NPFMC) |  |  |
| SS est M OM newline Est M EM: HCR 1a (NPFMC) |  |  |
| MS OM newline Est M EM: HCR 1a (NPFMC) |  |  |

“newpar3a.4. EBS - Est M EM: HCR 1b (NPFMC)”

| Scenario | Operating.model | Estimation.model |
| --- | --- | --- |
| SS fix M OM newline Est M EM: HCR 1b (NPFMC) |  |  |
| SS est M OM newline Est M EM: HCR 1b (NPFMC) |  |  |
| MS OM newline Est M EM: HCR 1b (NPFMC) |  |  |

“newpar3a.5. EBS - Fix M EM: HCR 2a (PFMC)”

| Scenario | Operating.model | Estimation.model |
| --- | --- | --- |
| SS fix M OM newline Fix M EM: HCR 2a (PFMC) |  |  |
| SS est M OM newline Fix M EM: HCR 2a (PFMC) |  |  |
| MS OM newline Fix M EM: HCR 2a (PFMC) |  |  |

“newpar3a.6. EBS - Fix M EM: HCR 2b (PFMC)”

| Scenario | Operating.model | Estimation.model |
| --- | --- | --- |
| SS fix M OM newline Fix M EM: HCR 2b (PFMC) |  |  |
| SS est M OM newline Fix M EM: HCR 2b (PFMC) |  |  |
| MS OM newline Fix M EM: HCR 2b (PFMC) |  |  |

“newpar3a.7. EBS - Est M EM: HCR 2a (PFMC)”

| Scenario | Operating.model | Estimation.model |
| --- | --- | --- |
| SS fix M OM newline Est M EM: HCR 2a (PFMC) |  |  |
| SS est M OM newline Est M EM: HCR 2a (PFMC) |  |  |
| MS OM newline Est M EM: HCR 2a (PFMC) |  |  |

“newpar3a.8. EBS - Est M EM: HCR 2b (PFMC)”

| Scenario | Operating.model | Estimation.model |
| --- | --- | --- |
| SS fix M OM newline Est M EM: HCR 2b (PFMC) |  |  |
| SS est M OM newline Est M EM: HCR 2b (PFMC) |  |  |
| MS OM newline Est M EM: HCR 2b (PFMC) |  |  |

“newpar3a.9. EBS - Fix M EM: HCR 3a (SESSF)”

| Scenario | Operating.model | Estimation.model |
| --- | --- | --- |
| SS fix M OM newline Fix M EM: HCR 3a (SESSF) |  |  |
| SS est M OM newline Fix M EM: HCR 3a (SESSF) |  |  |
| MS OM newline Fix M EM: HCR 3a (SESSF) |  |  |

“newpar3a.10. EBS - Fix M EM: HCR 3b (SESSF)”

| Scenario | Operating.model | Estimation.model |
| --- | --- | --- |
| SS fix M OM newline Fix M EM: HCR 3b (SESSF) |  |  |
| SS est M OM newline Fix M EM: HCR 3b (SESSF) |  |  |
| MS OM newline Fix M EM: HCR 3b (SESSF) |  |  |

“newpar3a.11. EBS - Est M EM: HCR 3a (SESSF)”

| Scenario | Operating.model | Estimation.model |
| --- | --- | --- |
| SS fix M OM newline Est M EM: HCR 3a (SESSF) |  |  |
| SS est M OM newline Est M EM: HCR 3a (SESSF) |  |  |
| MS OM newline Est M EM: HCR 3a (SESSF) |  |  |

“newpar3a.12. EBS - Est M EM: HCR 3b (SESSF)”

| Scenario | Operating.model | Estimation.model |
| --- | --- | --- |
| SS fix M OM newline Est M EM: HCR 3b (SESSF) |  |  |
| SS est M OM newline Est M EM: HCR 3b (SESSF) |  |  |
| MS OM newline Est M EM: HCR 3b (SESSF) |  |  |

“newpar3a.13. EBS - Fix M EM: HCR 4 (NEFMC)”

| Scenario | Operating.model | Estimation.model |
| --- | --- | --- |
| SS fix M OM newline Fix M EM: HCR 4 (NEFMC) |  |  |
| SS est M OM newline Fix M EM: HCR 4 (NEFMC) |  |  |
| MS OM newline Fix M EM: HCR 4 (NEFMC) |  |  |

“newpar3a.14. EBS - Est M EM: HCR 4 (NEFMC)”

| Scenario | Operating.model | Estimation.model |
| --- | --- | --- |
| SS fix M OM newline Est M EM: HCR 4 (NEFMC) |  |  |
| SS est M OM newline Est M EM: HCR 4 (NEFMC) |  |  |
| MS OM newline Est M EM: HCR 4 (NEFMC) |  |  |

“newpar3a.15. EBS - Fix M EM: HCR 5 (Avg F)”

| Scenario | Operating.model | Estimation.model |
| --- | --- | --- |
| SS fix M OM newline Fix M EM: HCR 5 (Avg F) |  |  |
| SS est M OM newline Fix M EM: HCR 5 (Avg F) |  |  |
| MS OM newline Fix M EM: HCR 5 (Avg F) |  |  |

“newpar3a.16. EBS - Est M EM: HCR 5 (Avg F)”

| Scenario | Operating.model | Estimation.model |
| --- | --- | --- |
| SS fix M OM newline Est M EM: HCR 5 (Avg F) |  |  |
| SS est M OM newline Est M EM: HCR 5 (Avg F) |  |  |
| MS OM newline Est M EM: HCR 5 (Avg F) |  |  |

“Supplementary Figure 3b. Time-series of spawning stock depletion as determined from the operating model (OM; left) and terminal estimation model in the GOA under experiment 1. Depletion under equilibrium given no fishing is indicated by the black line and target and limit depletion is indicated by the blue and red lines, respectively.” [1] “newpar3b.1. GOA - Fix M EM: HCR 1a (NPFMC)”

| Scenario | Operating.model | Estimation.model |
| --- | --- | --- |
| SS fix M OM newline Fix M EM: HCR 1a (NPFMC) |  |  |
| SS est M OM newline Fix M EM: HCR 1a (NPFMC) |  |  |
| MS OM newline Fix M EM: HCR 1a (NPFMC) |  |  |

“newpar3b.2. GOA - Fix M EM: HCR 1b (NPFMC)”

| Scenario | Operating.model | Estimation.model |
| --- | --- | --- |
| SS fix M OM newline Fix M EM: HCR 1b (NPFMC) |  |  |
| SS est M OM newline Fix M EM: HCR 1b (NPFMC) |  |  |
| MS OM newline Fix M EM: HCR 1b (NPFMC) |  |  |

“newpar3b.3. GOA - Est M EM: HCR 1a (NPFMC)”

| Scenario | Operating.model | Estimation.model |
| --- | --- | --- |
| SS fix M OM newline Est M EM: HCR 1a (NPFMC) |  |  |
| SS est M OM newline Est M EM: HCR 1a (NPFMC) |  |  |
| MS OM newline Est M EM: HCR 1a (NPFMC) |  |  |

“newpar3b.4. GOA - Est M EM: HCR 1b (NPFMC)”

| Scenario | Operating.model | Estimation.model |
| --- | --- | --- |
| SS fix M OM newline Est M EM: HCR 1b (NPFMC) |  |  |
| SS est M OM newline Est M EM: HCR 1b (NPFMC) |  |  |
| MS OM newline Est M EM: HCR 1b (NPFMC) |  |  |

“newpar3b.5. GOA - Fix M EM: HCR 2a (PFMC)”

| Scenario | Operating.model | Estimation.model |
| --- | --- | --- |
| SS fix M OM newline Fix M EM: HCR 2a (PFMC) |  |  |
| SS est M OM newline Fix M EM: HCR 2a (PFMC) |  |  |
| MS OM newline Fix M EM: HCR 2a (PFMC) |  |  |

“newpar3b.6. GOA - Fix M EM: HCR 2b (PFMC)”

| Scenario | Operating.model | Estimation.model |
| --- | --- | --- |
| SS fix M OM newline Fix M EM: HCR 2b (PFMC) |  |  |
| SS est M OM newline Fix M EM: HCR 2b (PFMC) |  |  |
| MS OM newline Fix M EM: HCR 2b (PFMC) |  |  |

“newpar3b.7. GOA - Est M EM: HCR 2a (PFMC)”

| Scenario | Operating.model | Estimation.model |
| --- | --- | --- |
| SS fix M OM newline Est M EM: HCR 2a (PFMC) |  |  |
| SS est M OM newline Est M EM: HCR 2a (PFMC) |  |  |
| MS OM newline Est M EM: HCR 2a (PFMC) |  |  |

“newpar3b.8. GOA - Est M EM: HCR 2b (PFMC)”

| Scenario | Operating.model | Estimation.model |
| --- | --- | --- |
| SS fix M OM newline Est M EM: HCR 2b (PFMC) |  |  |
| SS est M OM newline Est M EM: HCR 2b (PFMC) |  |  |
| MS OM newline Est M EM: HCR 2b (PFMC) |  |  |

“newpar3b.9. GOA - Fix M EM: HCR 3a (SESSF)”

| Scenario | Operating.model | Estimation.model |
| --- | --- | --- |
| SS fix M OM newline Fix M EM: HCR 3a (SESSF) |  |  |
| SS est M OM newline Fix M EM: HCR 3a (SESSF) |  |  |
| MS OM newline Fix M EM: HCR 3a (SESSF) |  |  |

“newpar3b.10. GOA - Fix M EM: HCR 3b (SESSF)”

| Scenario | Operating.model | Estimation.model |
| --- | --- | --- |
| SS fix M OM newline Fix M EM: HCR 3b (SESSF) |  |  |
| SS est M OM newline Fix M EM: HCR 3b (SESSF) |  |  |
| MS OM newline Fix M EM: HCR 3b (SESSF) |  |  |

“newpar3b.11. GOA - Est M EM: HCR 3a (SESSF)”

| Scenario | Operating.model | Estimation.model |
| --- | --- | --- |
| SS fix M OM newline Est M EM: HCR 3a (SESSF) |  |  |
| SS est M OM newline Est M EM: HCR 3a (SESSF) |  |  |
| MS OM newline Est M EM: HCR 3a (SESSF) |  |  |

“newpar3b.12. GOA - Est M EM: HCR 3b (SESSF)”

| Scenario | Operating.model | Estimation.model |
| --- | --- | --- |
| SS fix M OM newline Est M EM: HCR 3b (SESSF) |  |  |
| SS est M OM newline Est M EM: HCR 3b (SESSF) |  |  |
| MS OM newline Est M EM: HCR 3b (SESSF) |  |  |

“newpar3b.13. GOA - Fix M EM: HCR 4 (NEFMC)”

| Scenario | Operating.model | Estimation.model |
| --- | --- | --- |
| SS fix M OM newline Fix M EM: HCR 4 (NEFMC) |  |  |
| SS est M OM newline Fix M EM: HCR 4 (NEFMC) |  |  |
| MS OM newline Fix M EM: HCR 4 (NEFMC) |  |  |

“newpar3b.14. GOA - Est M EM: HCR 4 (NEFMC)”

| Scenario | Operating.model | Estimation.model |
| --- | --- | --- |
| SS fix M OM newline Est M EM: HCR 4 (NEFMC) |  |  |
| SS est M OM newline Est M EM: HCR 4 (NEFMC) |  |  |
| MS OM newline Est M EM: HCR 4 (NEFMC) |  |  |

“newpar3b.15. GOA - Fix M EM: HCR 5 (Avg F)”

| Scenario | Operating.model | Estimation.model |
| --- | --- | --- |
| SS fix M OM newline Fix M EM: HCR 5 (Avg F) |  |  |
| SS est M OM newline Fix M EM: HCR 5 (Avg F) |  |  |
| MS OM newline Fix M EM: HCR 5 (Avg F) |  |  |

“newpar3b.16. GOA - Est M EM: HCR 5 (Avg F)”

| Scenario | Operating.model | Estimation.model |
| --- | --- | --- |
| SS fix M OM newline Est M EM: HCR 5 (Avg F) |  |  |
| SS est M OM newline Est M EM: HCR 5 (Avg F) |  |  |
| MS OM newline Est M EM: HCR 5 (Avg F) |  |  |

# F trajectory

“newparSupplementary Figure 4a. Time-series of fishing mortality as determined from the operating model (OM; left) and terminal estimation model in the EBS under experiment 1. Target and limit reference points are indicated by the blue and red lines, respectively.” [1] “newpar4a.1. EBS - Fix M EM: HCR 1a (NPFMC)”

| Scenario | Operating.model | Estimation.model |
| --- | --- | --- |
| SS fix M OM newline Fix M EM: HCR 1a (NPFMC) |  |  |
| SS est M OM newline Fix M EM: HCR 1a (NPFMC) |  |  |
| MS OM newline Fix M EM: HCR 1a (NPFMC) |  |  |

“newpar4a.2. EBS - Fix M EM: HCR 1b (NPFMC)”

| Scenario | Operating.model | Estimation.model |
| --- | --- | --- |
| SS fix M OM newline Fix M EM: HCR 1b (NPFMC) |  |  |
| SS est M OM newline Fix M EM: HCR 1b (NPFMC) |  |  |
| MS OM newline Fix M EM: HCR 1b (NPFMC) |  |  |

“newpar4a.3. EBS - Est M EM: HCR 1a (NPFMC)”

| Scenario | Operating.model | Estimation.model |
| --- | --- | --- |
| SS fix M OM newline Est M EM: HCR 1a (NPFMC) |  |  |
| SS est M OM newline Est M EM: HCR 1a (NPFMC) |  |  |
| MS OM newline Est M EM: HCR 1a (NPFMC) |  |  |

“newpar4a.4. EBS - Est M EM: HCR 1b (NPFMC)”

| Scenario | Operating.model | Estimation.model |
| --- | --- | --- |
| SS fix M OM newline Est M EM: HCR 1b (NPFMC) |  |  |
| SS est M OM newline Est M EM: HCR 1b (NPFMC) |  |  |
| MS OM newline Est M EM: HCR 1b (NPFMC) |  |  |

“newpar4a.5. EBS - Fix M EM: HCR 2a (PFMC)”

| Scenario | Operating.model | Estimation.model |
| --- | --- | --- |
| SS fix M OM newline Fix M EM: HCR 2a (PFMC) |  |  |
| SS est M OM newline Fix M EM: HCR 2a (PFMC) |  |  |
| MS OM newline Fix M EM: HCR 2a (PFMC) |  |  |

“newpar4a.6. EBS - Fix M EM: HCR 2b (PFMC)”

| Scenario | Operating.model | Estimation.model |
| --- | --- | --- |
| SS fix M OM newline Fix M EM: HCR 2b (PFMC) |  |  |
| SS est M OM newline Fix M EM: HCR 2b (PFMC) |  |  |
| MS OM newline Fix M EM: HCR 2b (PFMC) |  |  |

“newpar4a.7. EBS - Est M EM: HCR 2a (PFMC)”

| Scenario | Operating.model | Estimation.model |
| --- | --- | --- |
| SS fix M OM newline Est M EM: HCR 2a (PFMC) |  |  |
| SS est M OM newline Est M EM: HCR 2a (PFMC) |  |  |
| MS OM newline Est M EM: HCR 2a (PFMC) |  |  |

“newpar4a.8. EBS - Est M EM: HCR 2b (PFMC)”

| Scenario | Operating.model | Estimation.model |
| --- | --- | --- |
| SS fix M OM newline Est M EM: HCR 2b (PFMC) |  |  |
| SS est M OM newline Est M EM: HCR 2b (PFMC) |  |  |
| MS OM newline Est M EM: HCR 2b (PFMC) |  |  |

“newpar4a.9. EBS - Fix M EM: HCR 3a (SESSF)”

| Scenario | Operating.model | Estimation.model |
| --- | --- | --- |
| SS fix M OM newline Fix M EM: HCR 3a (SESSF) |  |  |
| SS est M OM newline Fix M EM: HCR 3a (SESSF) |  |  |
| MS OM newline Fix M EM: HCR 3a (SESSF) |  |  |

“newpar4a.10. EBS - Fix M EM: HCR 3b (SESSF)”

| Scenario | Operating.model | Estimation.model |
| --- | --- | --- |
| SS fix M OM newline Fix M EM: HCR 3b (SESSF) |  |  |
| SS est M OM newline Fix M EM: HCR 3b (SESSF) |  |  |
| MS OM newline Fix M EM: HCR 3b (SESSF) |  |  |

“newpar4a.11. EBS - Est M EM: HCR 3a (SESSF)”

| Scenario | Operating.model | Estimation.model |
| --- | --- | --- |
| SS fix M OM newline Est M EM: HCR 3a (SESSF) |  |  |
| SS est M OM newline Est M EM: HCR 3a (SESSF) |  |  |
| MS OM newline Est M EM: HCR 3a (SESSF) |  |  |

“newpar4a.12. EBS - Est M EM: HCR 3b (SESSF)”

| Scenario | Operating.model | Estimation.model |
| --- | --- | --- |
| SS fix M OM newline Est M EM: HCR 3b (SESSF) |  |  |
| SS est M OM newline Est M EM: HCR 3b (SESSF) |  |  |
| MS OM newline Est M EM: HCR 3b (SESSF) |  |  |

“newpar4a.13. EBS - Fix M EM: HCR 4 (NEFMC)”

| Scenario | Operating.model | Estimation.model |
| --- | --- | --- |
| SS fix M OM newline Fix M EM: HCR 4 (NEFMC) |  |  |
| SS est M OM newline Fix M EM: HCR 4 (NEFMC) |  |  |
| MS OM newline Fix M EM: HCR 4 (NEFMC) |  |  |

“newpar4a.14. EBS - Est M EM: HCR 4 (NEFMC)”

| Scenario | Operating.model | Estimation.model |
| --- | --- | --- |
| SS fix M OM newline Est M EM: HCR 4 (NEFMC) |  |  |
| SS est M OM newline Est M EM: HCR 4 (NEFMC) |  |  |
| MS OM newline Est M EM: HCR 4 (NEFMC) |  |  |

“newpar4a.15. EBS - Fix M EM: HCR 5 (Avg F)”

| Scenario | Operating.model | Estimation.model |
| --- | --- | --- |
| SS fix M OM newline Fix M EM: HCR 5 (Avg F) |  |  |
| SS est M OM newline Fix M EM: HCR 5 (Avg F) |  |  |
| MS OM newline Fix M EM: HCR 5 (Avg F) |  |  |

“newpar4a.16. EBS - Est M EM: HCR 5 (Avg F)”

| Scenario | Operating.model | Estimation.model |
| --- | --- | --- |
| SS fix M OM newline Est M EM: HCR 5 (Avg F) |  |  |
| SS est M OM newline Est M EM: HCR 5 (Avg F) |  |  |
| MS OM newline Est M EM: HCR 5 (Avg F) |  |  |

“newparSupplementary Figure 4b. Time-series of fishing mortality as determined from the operating model (OM; left) and terminal estimation model in the GOA under experiment 1. Target and limit reference points are indicated by the blue and red lines, respectively.” [1] “newpar4b.1. GOA - Fix M EM: HCR 1a (NPFMC)”

| Scenario | Operating.model | Estimation.model |
| --- | --- | --- |
| SS fix M OM newline Fix M EM: HCR 1a (NPFMC) |  |  |
| SS est M OM newline Fix M EM: HCR 1a (NPFMC) |  |  |
| MS OM newline Fix M EM: HCR 1a (NPFMC) |  |  |

“newpar4b.2. GOA - Fix M EM: HCR 1b (NPFMC)”

| Scenario | Operating.model | Estimation.model |
| --- | --- | --- |
| SS fix M OM newline Fix M EM: HCR 1b (NPFMC) |  |  |
| SS est M OM newline Fix M EM: HCR 1b (NPFMC) |  |  |
| MS OM newline Fix M EM: HCR 1b (NPFMC) |  |  |

“newpar4b.3. GOA - Est M EM: HCR 1a (NPFMC)”

| Scenario | Operating.model | Estimation.model |
| --- | --- | --- |
| SS fix M OM newline Est M EM: HCR 1a (NPFMC) |  |  |
| SS est M OM newline Est M EM: HCR 1a (NPFMC) |  |  |
| MS OM newline Est M EM: HCR 1a (NPFMC) |  |  |

“newpar4b.4. GOA - Est M EM: HCR 1b (NPFMC)”

| Scenario | Operating.model | Estimation.model |
| --- | --- | --- |
| SS fix M OM newline Est M EM: HCR 1b (NPFMC) |  |  |
| SS est M OM newline Est M EM: HCR 1b (NPFMC) |  |  |
| MS OM newline Est M EM: HCR 1b (NPFMC) |  |  |

“newpar4b.5. GOA - Fix M EM: HCR 2a (PFMC)”

| Scenario | Operating.model | Estimation.model |
| --- | --- | --- |
| SS fix M OM newline Fix M EM: HCR 2a (PFMC) |  |  |
| SS est M OM newline Fix M EM: HCR 2a (PFMC) |  |  |
| MS OM newline Fix M EM: HCR 2a (PFMC) |  |  |

“newpar4b.6. GOA - Fix M EM: HCR 2b (PFMC)”

| Scenario | Operating.model | Estimation.model |
| --- | --- | --- |
| SS fix M OM newline Fix M EM: HCR 2b (PFMC) |  |  |
| SS est M OM newline Fix M EM: HCR 2b (PFMC) |  |  |
| MS OM newline Fix M EM: HCR 2b (PFMC) |  |  |

“newpar4b.7. GOA - Est M EM: HCR 2a (PFMC)”

| Scenario | Operating.model | Estimation.model |
| --- | --- | --- |
| SS fix M OM newline Est M EM: HCR 2a (PFMC) |  |  |
| SS est M OM newline Est M EM: HCR 2a (PFMC) |  |  |
| MS OM newline Est M EM: HCR 2a (PFMC) |  |  |

“newpar4b.8. GOA - Est M EM: HCR 2b (PFMC)”

| Scenario | Operating.model | Estimation.model |
| --- | --- | --- |
| SS fix M OM newline Est M EM: HCR 2b (PFMC) |  |  |
| SS est M OM newline Est M EM: HCR 2b (PFMC) |  |  |
| MS OM newline Est M EM: HCR 2b (PFMC) |  |  |

“newpar4b.9. GOA - Fix M EM: HCR 3a (SESSF)”

| Scenario | Operating.model | Estimation.model |
| --- | --- | --- |
| SS fix M OM newline Fix M EM: HCR 3a (SESSF) |  |  |
| SS est M OM newline Fix M EM: HCR 3a (SESSF) |  |  |
| MS OM newline Fix M EM: HCR 3a (SESSF) |  |  |

“newpar4b.10. GOA - Fix M EM: HCR 3b (SESSF)”

| Scenario | Operating.model | Estimation.model |
| --- | --- | --- |
| SS fix M OM newline Fix M EM: HCR 3b (SESSF) |  |  |
| SS est M OM newline Fix M EM: HCR 3b (SESSF) |  |  |
| MS OM newline Fix M EM: HCR 3b (SESSF) |  |  |

“newpar4b.11. GOA - Est M EM: HCR 3a (SESSF)”

| Scenario | Operating.model | Estimation.model |
| --- | --- | --- |
| SS fix M OM newline Est M EM: HCR 3a (SESSF) |  |  |
| SS est M OM newline Est M EM: HCR 3a (SESSF) |  |  |
| MS OM newline Est M EM: HCR 3a (SESSF) |  |  |

“newpar4b.12. GOA - Est M EM: HCR 3b (SESSF)”

| Scenario | Operating.model | Estimation.model |
| --- | --- | --- |
| SS fix M OM newline Est M EM: HCR 3b (SESSF) |  |  |
| SS est M OM newline Est M EM: HCR 3b (SESSF) |  |  |
| MS OM newline Est M EM: HCR 3b (SESSF) |  |  |

“newpar4b.13. GOA - Fix M EM: HCR 4 (NEFMC)”

| Scenario | Operating.model | Estimation.model |
| --- | --- | --- |
| SS fix M OM newline Fix M EM: HCR 4 (NEFMC) |  |  |
| SS est M OM newline Fix M EM: HCR 4 (NEFMC) |  |  |
| MS OM newline Fix M EM: HCR 4 (NEFMC) |  |  |

“newpar4b.14. GOA - Est M EM: HCR 4 (NEFMC)”

| Scenario | Operating.model | Estimation.model |
| --- | --- | --- |
| SS fix M OM newline Est M EM: HCR 4 (NEFMC) |  |  |
| SS est M OM newline Est M EM: HCR 4 (NEFMC) |  |  |
| MS OM newline Est M EM: HCR 4 (NEFMC) |  |  |

“newpar4b.15. GOA - Fix M EM: HCR 5 (Avg F)”

| Scenario | Operating.model | Estimation.model |
| --- | --- | --- |
| SS fix M OM newline Fix M EM: HCR 5 (Avg F) |  |  |
| SS est M OM newline Fix M EM: HCR 5 (Avg F) |  |  |
| MS OM newline Fix M EM: HCR 5 (Avg F) |  |  |

“newpar4b.16. GOA - Est M EM: HCR 5 (Avg F)”

| Scenario | Operating.model | Estimation.model |
| --- | --- | --- |
| SS fix M OM newline Est M EM: HCR 5 (Avg F) |  |  |
| SS est M OM newline Est M EM: HCR 5 (Avg F) |  |  |
| MS OM newline Est M EM: HCR 5 (Avg F) |  |  |