Proportions Within (SR_ALY) Proportions Within (SR_Y) Growth_M (0,15) Growth_M (30,30) Growth_M (15,0) Growth_M (15,15) Growth_M (0,0) Spawning Stock Biomass 6 4-2-Relative Error **Total Biomass** 6 Total Fishing Mortality 4 2 -0.250.00 0.25 0.50 0.2 0.4 -0.2 0.0 0.2 0.4 -0.25 -0.250.00 0.25 0.50 **−**0.2 0.0 0.00 0.25 0.50 RE

Proportions Across Proportions Within (SR_Y) Growth_M (0,15) Growth_M (0,0) Growth_M (15,0) Growth_M (15,15) Growth_M (30,30) Spawning Stock Biomass 6 4-2-Relative Error **Total Biomass** 6 Total Fishing Mortality 4-2 -0.250.00 0.25 0.50 -0.250.00 0.25 0.50 0.2 0.4 0.0 0.2 0.4 -0.2-0.1 0.0 0.1 0.2 0.3 **−**0.2 0.0 -0.2

RE

Prop Proportions Within (SR_ALY) Proportions Within (SR_Y) Growth_M (0,15) Growth_M (15,0) Growth_M (0,0) Growth_M (15,15) Growth_M (30,30) 10.0 Spawning Stock Biomass 7.5 5.0 2.5 0.0 Relative Error 7.5 Total Biomass 5.0 2.5 0.0 7.5 Total Fishing Mortality 5.0 2.5 0.0 -0.2-0.1 0.0 0.1 0.2 -0.2-0.10.0 0.1 0.2 0-30.2 -0.1 0.0 -0.250.00 0.25 0.50 -0.250.00 0.25 0.50

RE

Proportions Across Proportions Within (SR_Y) Growth_M (15,0) Growth_M (0,0) Growth_M (0,15) Growth_M (15,15) Growth_M (30,30) 10.0 Spawning Stock Biomass 7.5 5.0 2.5 0.0 10.0 Relative Error 7.5 Total Biomass 5.0 2.5 0.0 7.5 **Total Fishing Mortality** 5.0 2.5 0.0 -0.250.00 0.25 0.50 -0.2-0.1 0.0 0.1 0.2 -0.2-0.10.0 0.1 0.2 0.30.2 -0.1 0.0 -0.250.00 0.25 0.50 RE

Prop Proportions Within (SR_ALY) Proportions Within (SR_Y) Growth_M (0,15) Growth_M (15,0) Growth_M (15,15) Growth_M (0,0) Growth_M (30,30) 10.0 Spawning Stock Biomass 7.5 5.0 2.5 0.0 Relative Error 7.5 **Total Biomass** 5.0 2.5 0.0 6 Total Fishing Mortality 4 2 0 0.2 0.0 0.5 1.0 -0.5 0.5 $-0.250.00\,0.25\,0.50\,0.75\,-0.250.00\,0.25\,0.50\,0.75-0.2$ 0.40.5 0.0 0.0 RE

Proportions Across Proportions Within (SR_Y) Prop Growth_M (0,15) Growth_M (15,0) Growth_M (15,15) Growth_M (0,0) Growth_M (30,30) 10.0 Spawning Stock Biomass 7.5 5.0 2.5 0.0 Relative Error 7.5 Total Biomass 5.0 2.5 0.0 6 Total Fishing Mortality 4 2 0 0.2 1-00.500.250.000.250.500.75 $-0.250.00\,0.25\,0.50\,0.75\,-0.250.00\,0.25\,0.50$ -0.20.40.5 0.5 0.0 0.0 RE

Prop Proportions Within (SR_ALY) Proportions Within (SR_Y) Growth_M (0,15) Growth_M (15,0) Growth_M (15,15) Growth_M (0,0) Growth_M (30,30) 10.0 Spawning Stock Biomass 7.5 5.0 2.5 0.0 10.0 Relative Error 7.5 Total Biomass 5.0 2.5 0.0 7.5 **Total Fishing Mortality** 5.0 2.5 0.0 -0.250.00 0.25 0.50 2.5 5.0 7.5 10.0.2 –0.1 0.0 0.1 0.2 -0.5 0.5 1.**0**.50-0.250.00 0.25 0.50 0.0 RE

Proportions Across Proportions Within (SR_Y) Growth_M (0,15) Growth_M (15,0) Growth_M (15,15) Growth_M (0,0) Growth_M (30,30) Spawning Stock Biomass 7.5 5.0 2.5 0.0 10.0 Relative Error 7.5 Total Biomass 5.0 2.5 0.0 7.5 **Total Fishing Mortality** 5.0 2.5 0.0 5.0 7.5 10.00.2-0.1 0.0 0.1 0.2 0.3-0.5 0.5 -0.250.00 0.25 0.50 0.75 0.0 2.5 -0.50-0.25 0.00 0.25 0.50 0.0 RE