Further outputs for a re-look at the “original” model fits for Area 5+6 and some further plots of combined resource estimates

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Closer examination of the A5+6 fits to the CPUE data and F% data showed that this model fit was most likely not fully converged. Attempts have been made to reach convergence, and the new model fits for Area 5+6 are reported here, along with $B_{Y_S}^{2A}$ trends for all five super-areas, and for the combined resource.
Figure 1: Fits to CPUE and F% ("n" refers to the new variant, and "o*" refers to the updated original model variant.)
Figure 2; Area 5+6 “α” population trends. The right panel is a 1980+ “zoom in”.
Figure 3a: $B_{75}^m$ trends for all five super-areas and the combined resource for the 2010 updated assessments using the “original” model variant. The right panel is a 1980+ “zoom in”.

**Area 1+2**

**Area 3+4**

**Area 5+6**

**Area 7**

**Area 8+**

**Combined**
Figure 3b: $B^m_{75}/K$ trends for all five super-areas and the combined resource for the 2010 updated assessments using the “original” model variant. The right panel is a 1980+ “zoom in”.

- **Area 1+2**
- **Area 3+4**
- **Area 5+6**
- **Area 7**
- **Area 8+**
- **Combined**
Figure 3c: Comparison of $B_{75}^m$ and $B_{75}^m/K$ trends for all five super-areas for the 2010 updated assessments using the “original” model variant. The right panel is a 1980+ “zoom in”.

![Graphs showing $B_{75}^m$ and $B_{75}^m/K$ trends for all five super-areas for the 2010 updated assessments using the “original” model variant. The right panel is a 1980+ “zoom in”](image-url)
Figure 4: Comparison between the “new” and “original” model variants combined $B_{75}^{m}/K$ trends. The bottom plot is the 1980+ “zoom in”.

![Chart Comparison between "new" and "original" model variants combined $B_{75}^{m}/K$ trends. The bottom plot is the 1980+ “zoom in”.

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Figure 5: The combined $B^{m}_{75}/K$ trend relative to the unexploited level ($K$). The green circle shows the intended biomass recovery target level for OMP 1997, and the red square shows the intended biomass recovery target for OMP 2007.