MODIFICATION TO PUCL3 RULE FOR BYCATCH

Previously: PUCL3 = 18000 tonnes

Change: PUCL3 = 15589 tonnes
    or
    PUCL3 = 16814 tonnes with a maximum in any one year of 8407 tonnes

Reasons for change: i) Updated assessment – improved selectivity model led to lower pre-exploitation levels.
    ii) Used empirical distribution to resample previous catches rather than a fitted distribution
MODIFICATION TO TAC RULE FOR DIRECTED MIDWATER CATCHES

\[ TAC_{y+1} = \Delta_y TAC_y \]

\[
\Delta_y = \begin{cases} 
1 - X_{decr} & \text{for } I_y < I_{decr} \\
1 - X_{decr} + \frac{X_{incr} + X_{decr}}{I_{incr} - I_{decr}} (I_y - I_{decr}) & \text{for } I_{decr} \leq I_y < I_{incr} \\
1 + X_{incr} & \text{for } I_y \geq I_{incr}
\end{cases}
\]

\( I_y \) is related to a weighted average of the last three years of survey and CPUE data.

Reason for changes: i) Updated assessment – improved selectivity model led to lower pre-exploitation levels. ii) Changed PUCL3 rule. iii) Criterion to select rule unchanged (match previous results for lower percentile of \( B^{30} \) with bycatch = 5000 tonnes plus midwater = 38115 tonnes, both fixed).