

Trade-off and performance: catch/biomass

Three management procedures (MP1-MP3). Median values over 20-year projection period (2020-2040).

Best scores

C_{av} MP1
AAV MP2
 B_{final} MP3
 B_{lowest} MP3

SUMMARY OF RESULTS

Management procedure 3 (MP3) scores best for biomass-related metrics over the 20-year projection period. MP1 and MP2 score higher for yield-related metrics, at the sacrifice of population health.

READING THIS CHART

Key

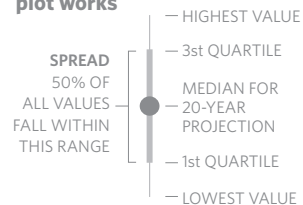
Management procedure

● MP1 ● MP2 ● MP3

⊕ Zero future catches
(largest possible recovery within projection period)

The chart compares performance of different candidate management procedures (MP) across X operating models, showing trade-offs between actionable metrics of catch (2 performance metrics on the left) and resulting biomass or fish abundance (2 performance metrics on the right).

How a box plot works

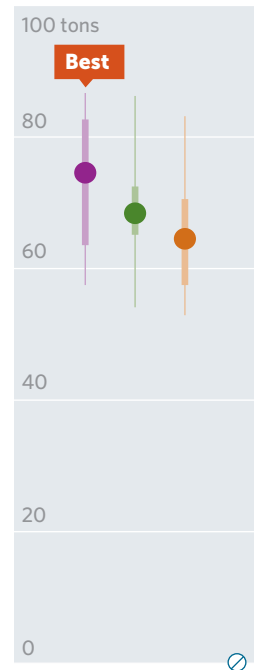


CATCH

C_{av}

Average annual catch over the projection period.

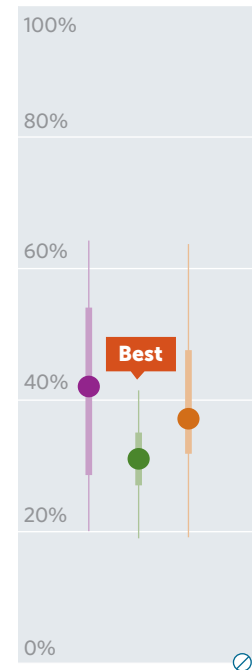
↑ Higher is better
(if resource is stable)



AAV

Average percent change in catch from year to year.

↓ Lower is better
(fishery is stable)

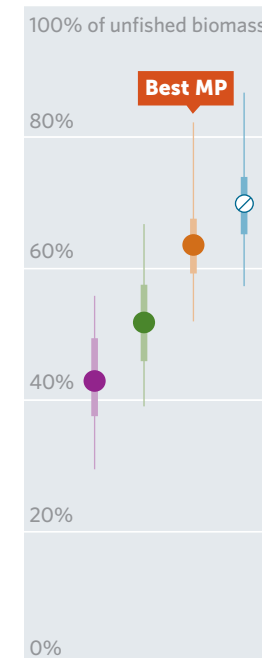


ABUNDANCE

B_{final}

Biomass relative to unfished biomass at the end of the projection period.

↑ Higher is better
(resource status healthy)



B_{lowest}

Lowest value of projected biomass during the projection period.

↑ Higher is better
(low risk, safer resource)

