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Global and regional status of offshore fisheries development

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Aim

- Describe the status of tuna stocks around the world
- Provide a background on:
 - the trends in southern WCPO fisheries, and
 - the status of tuna stocks in the WCPO



Global status of tuna stocks

	W. Atlantic	E. Atlantic	Indian	E. Pacific	W. Pacific
Skipjack	Green	Green	Green	Green	Green
Yellowfin	Yellow	Yellow	Orange	Yellow	Red ???
Bigeye	Yellow	Yellow	Green	Orange	Yellow
	N. Atlantic	S. Atlantic	Indian	N. Pacific	S. Pacific
Albacore	Orange	Yellow	Green	Yellow	Green

Key	
Orange	Overfished and overfishing – rebuilding plan in place
Yellow	Overfished OR overfishing. CMs needed
Green	Not overfished, nor is overfishing occurring

From Int.
Seafood
Sustainability
Foundation



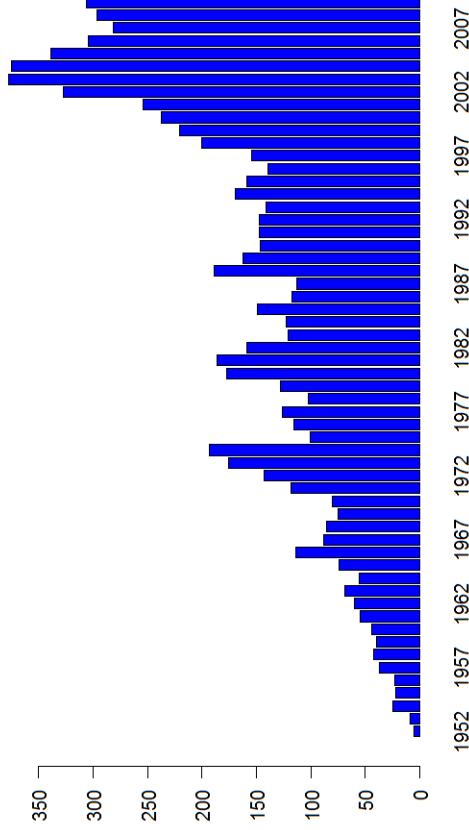
Trends in fisheries in the Southern WCPO



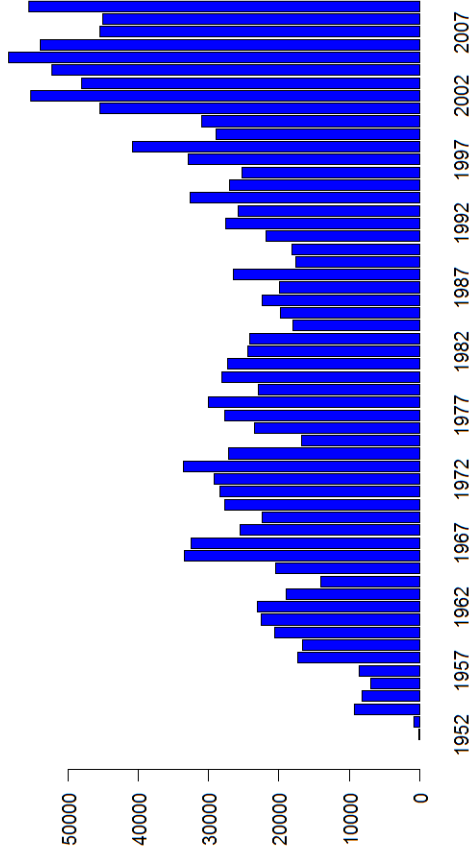


Long-term trends in the south

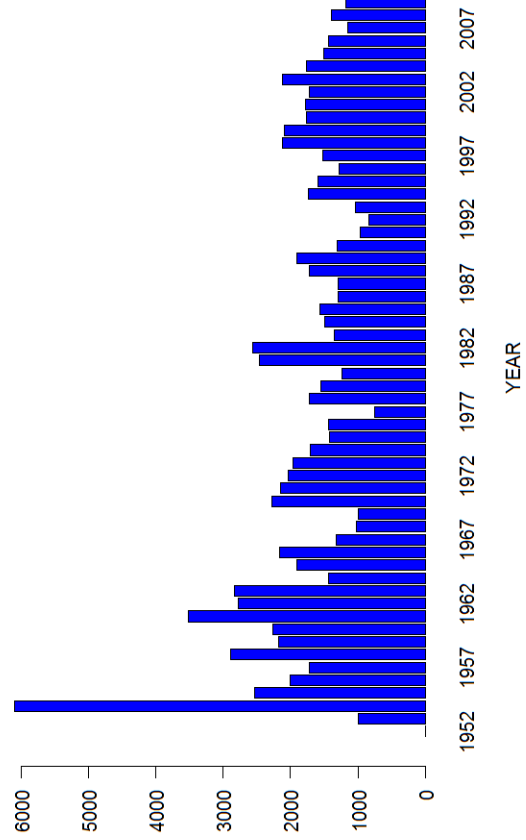
TOTAL EFFORT - MILLIONS OF HOOKS



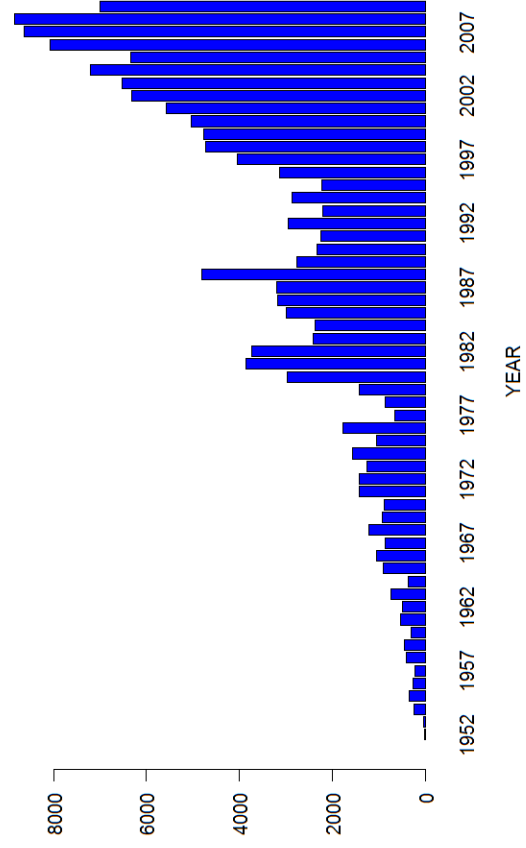
ALB CATCHES (MT) IN THE SOUTHERN WCPCO



MLS CATCHES (MT) IN THE SOUTHERN WCPCO

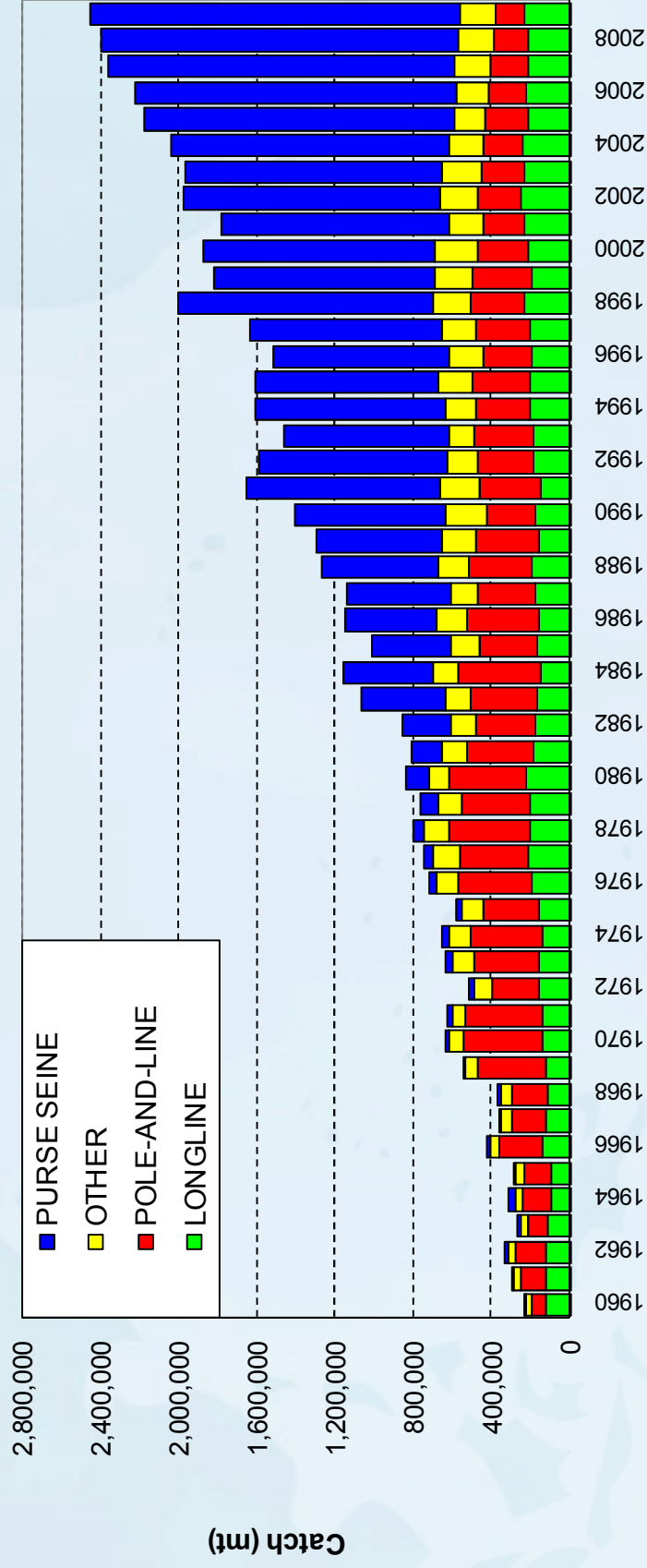


SWO CATCHES (MT) IN THE SOUTHERN WCPCO





Fishery Overview - Catches

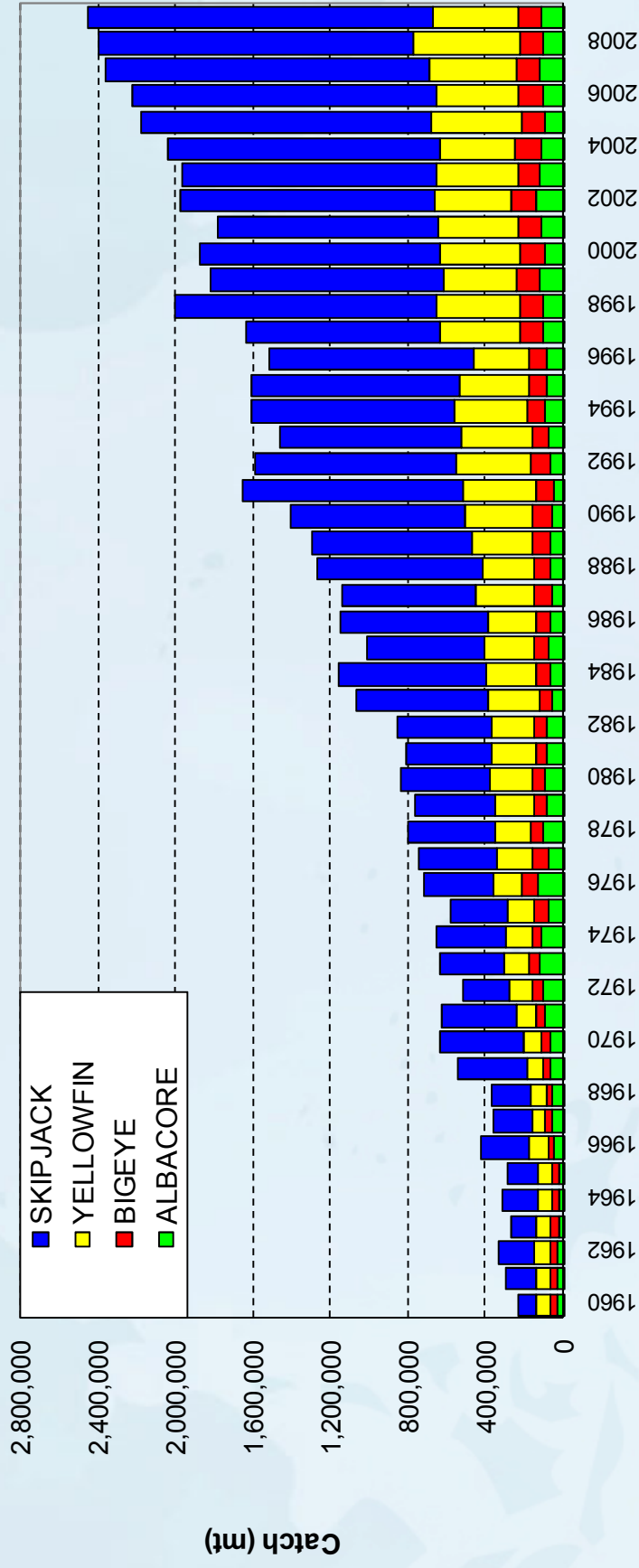


2009 Provisional estimates

- Total Catch – 2,467,903 mt (record, 6th in succession...)
- Purse seine – 1,894,500 mt (77% of total WCPO catch ; record)
- Longline – 223,792 mt (9% of total; stable)
- Pole-and-line – 165,814 mt (7% of total WCPO; ↓)
- Other – (7% of total)



Fishery Overview - Catches

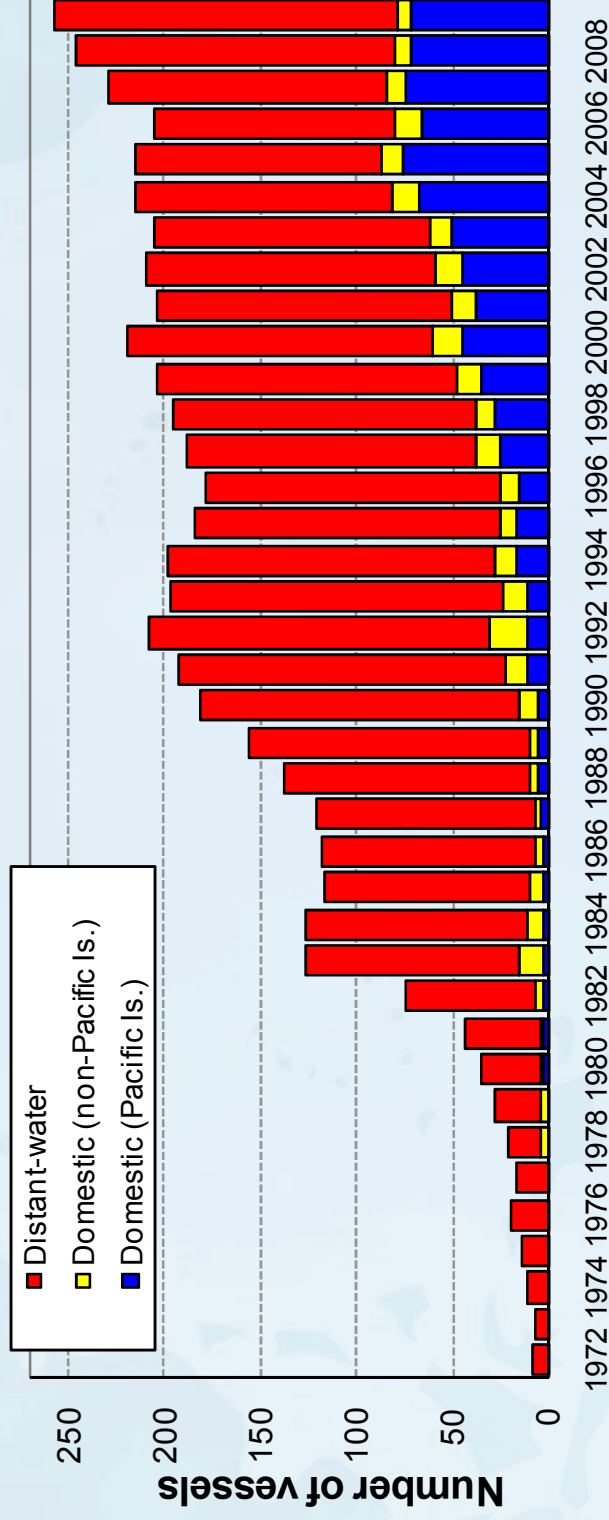


2009 Provisional estimates

- SKJ : 1,789,979 mt (73% of total; ↑ record)
- YFT : 433,788 mt (18% ; ↓)
- BET : 118,657 mt (5% ; ↓ ... lowest since 2003)



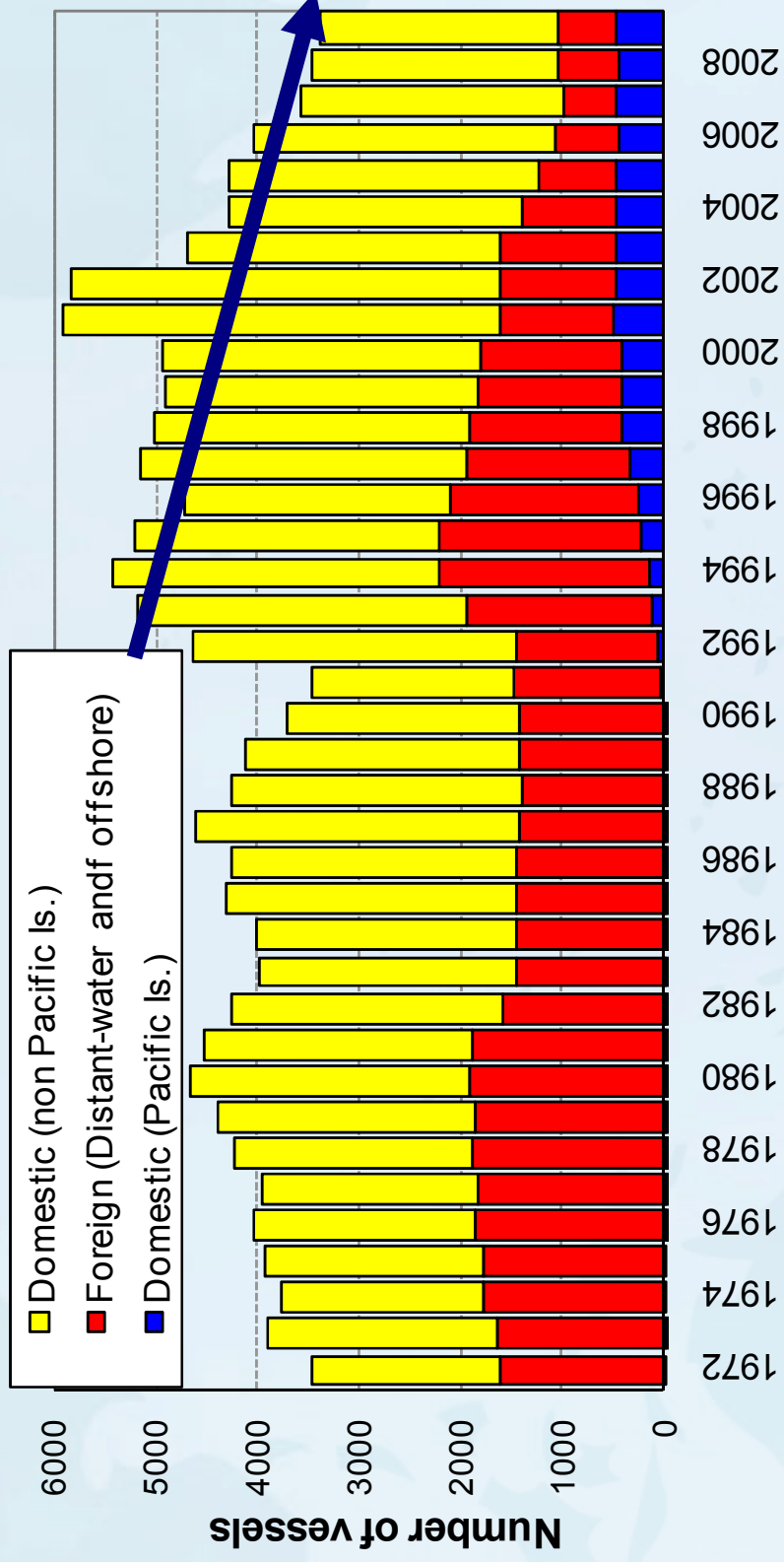
Fishery Overview – Purse seine fishery



- The number of vessels continues to increase to >250 in 2009, due to increases in distant water vessels.



Fishery Overview – Longline catch and effort

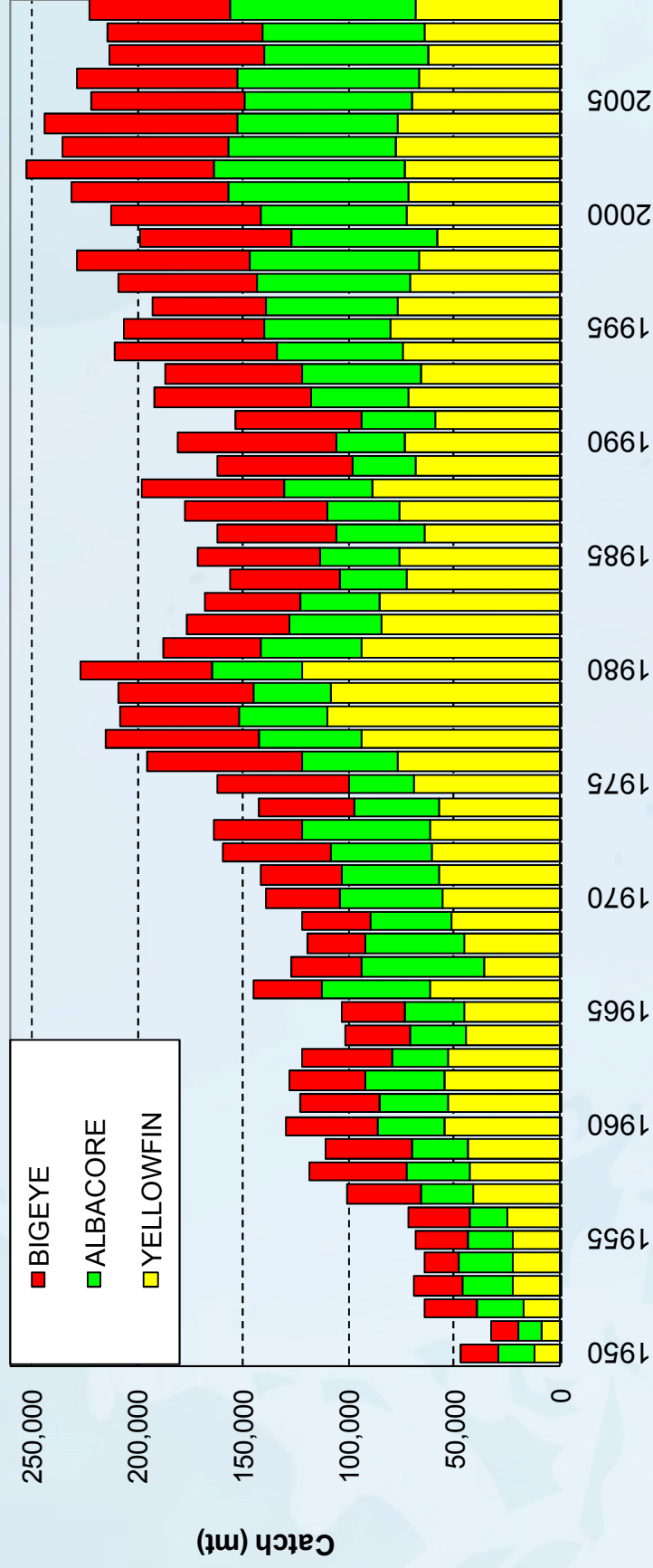


Longline fishery vessel numbers

Declining trend in domestic based non-Pacific Island flagged vessels and in Foreign (distant water and offshore) vessel numbers. PICT domestic vessel numbers steady.



Fishery Overview – Longline catch and effort

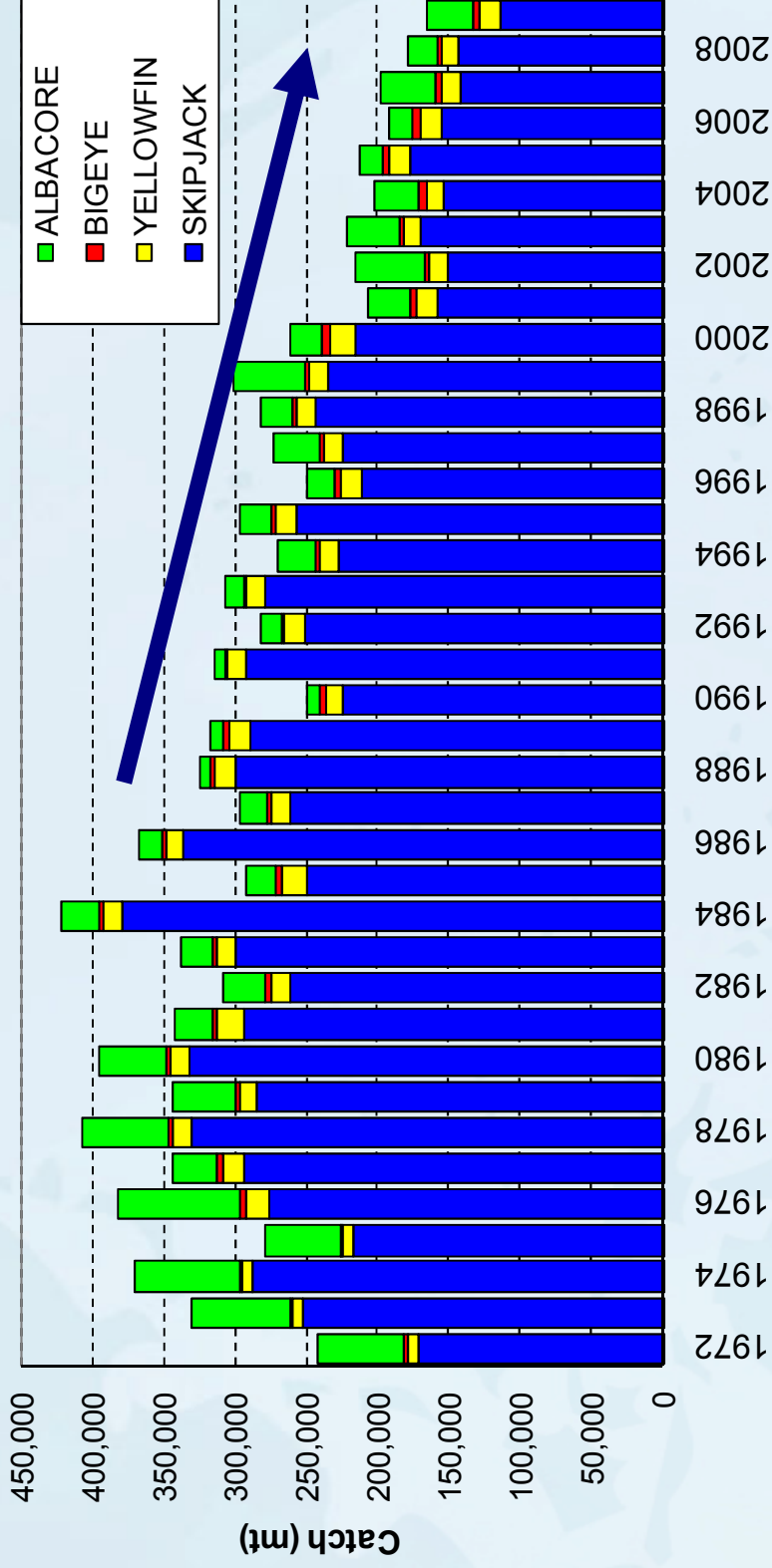


Longline catch by target species

- TOTAL : 223,792 mt (stable ...)
- YFT : 69,158 mt (31% - stable ...)
- BET : 65,606 mt (29% - ↓ lowest since 1996 ...)
- ALB : 87,080 mt (39% - near record ...)
- Continued drop in catch/effort in eastern tropical WCP-CA LL fishery...



Fishery Overview – Pole and line catch



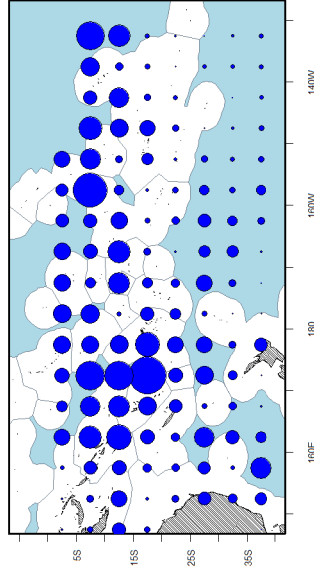
Pole and Line Annual catch by species

Declining trend in catches matches the reduction in pole and line vessel numbers and fishing effort in the region over this period. Catches currently at their lowest level since the mid 1960s.

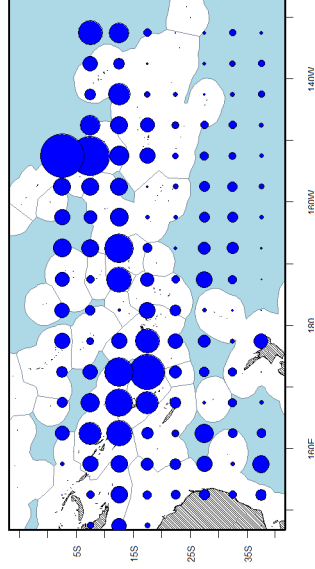


Recent distribution of longline effort

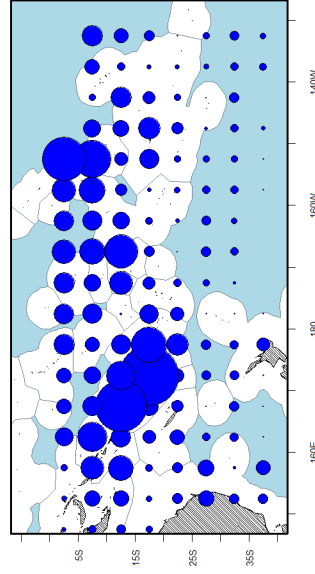
HOOKS - 2005 (max=39 Million)



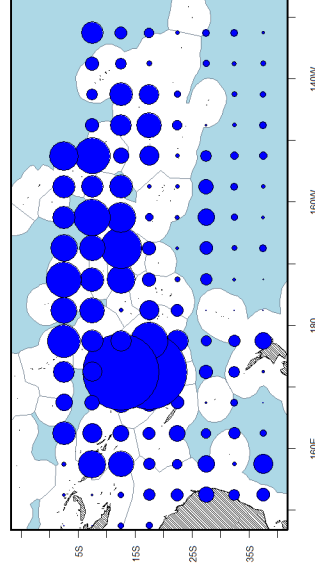
HOOKS - 2006



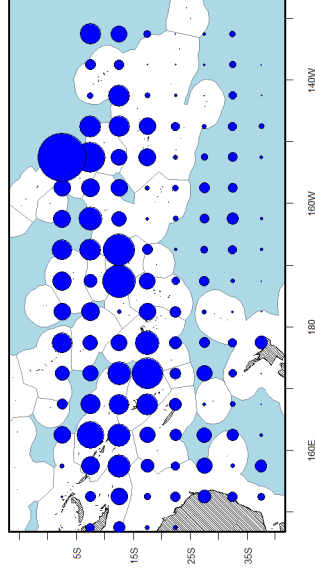
HOOKS - 2008



HOOKS - 2009



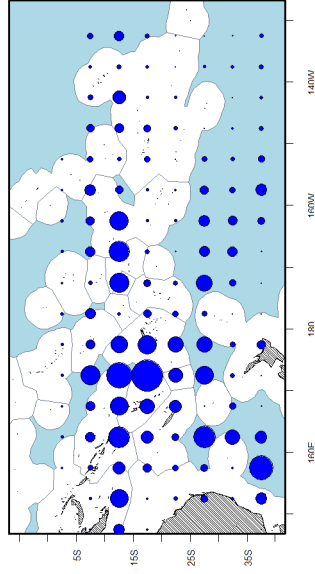
HOOKS - 2007



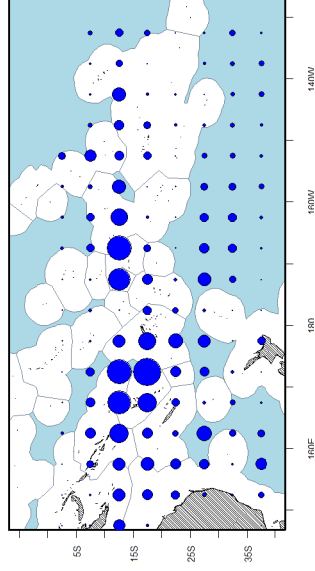


Recent distribution of Albacore catches

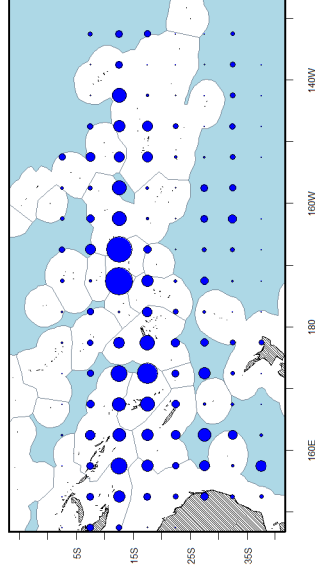
ALB catch - 2005 (max=11200mt)



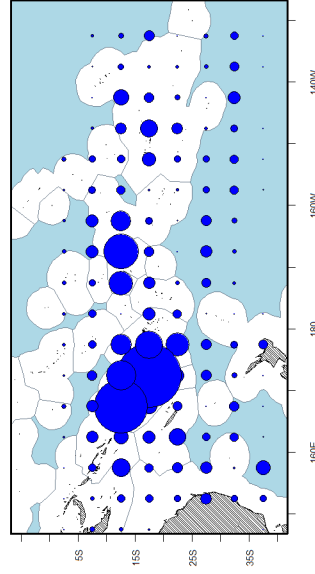
ALB catch - 2006



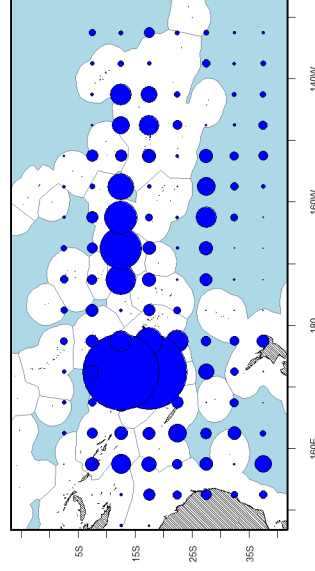
ALB catch - 2007



ALB catch - 2008



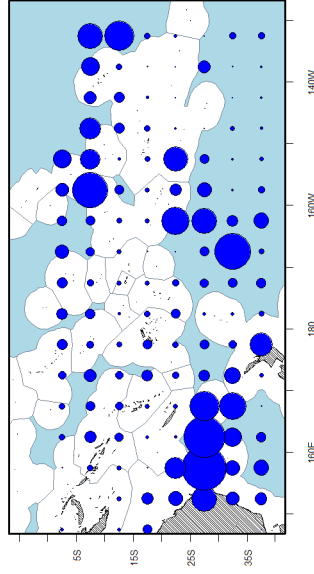
ALB catch - 2009



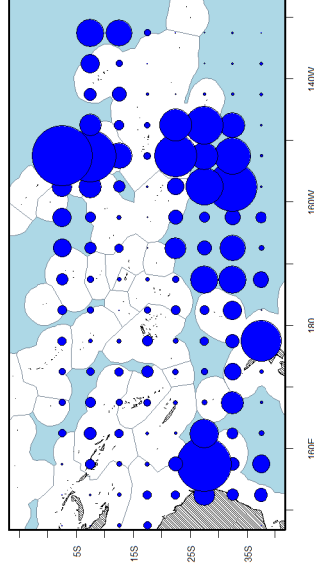


Recent distribution of Swordfish catches

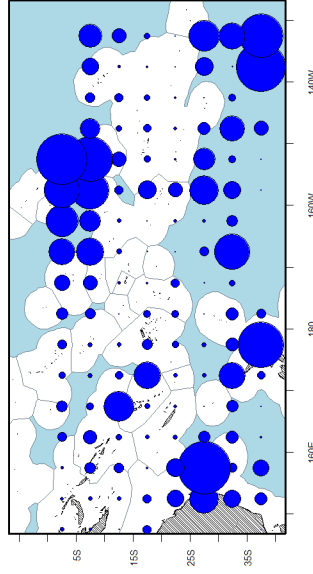
SWO catch - 2005 (max=964mt)



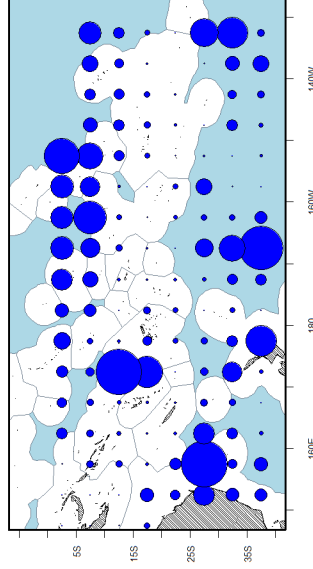
SWO catch - 2006



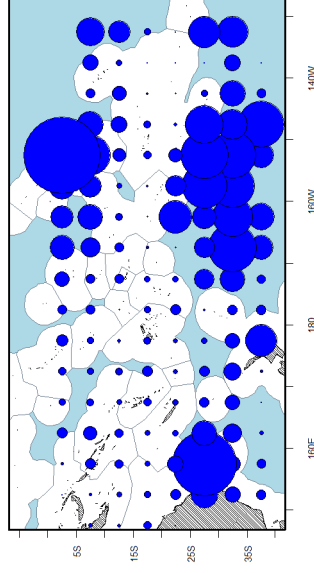
SWO catch - 2008



SWO catch - 2009



SWO catch - 2007



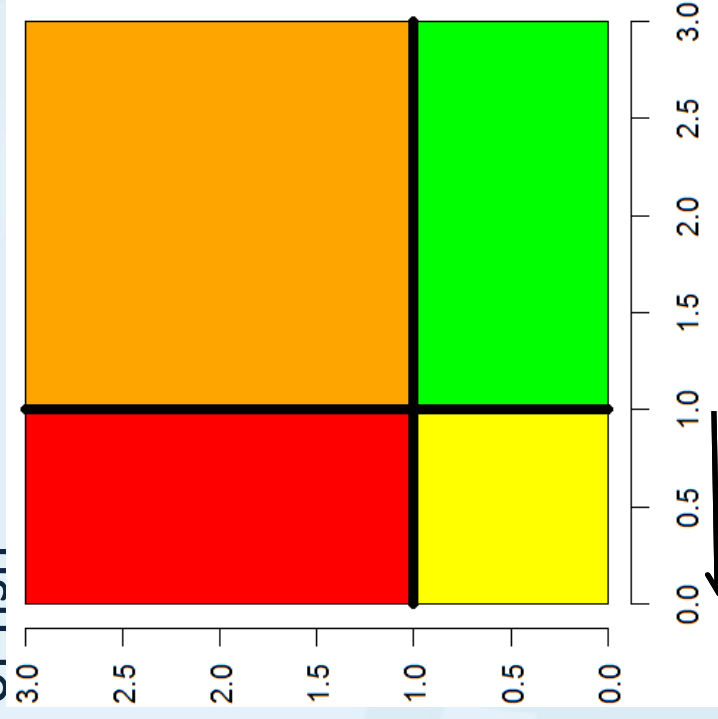


Stock Status



Stock Status – Kobe plot

- A way to present stock status information
- Standard approach in all tuna RFMOs
- Presents information on the intensity of fishing and the abundance of fish

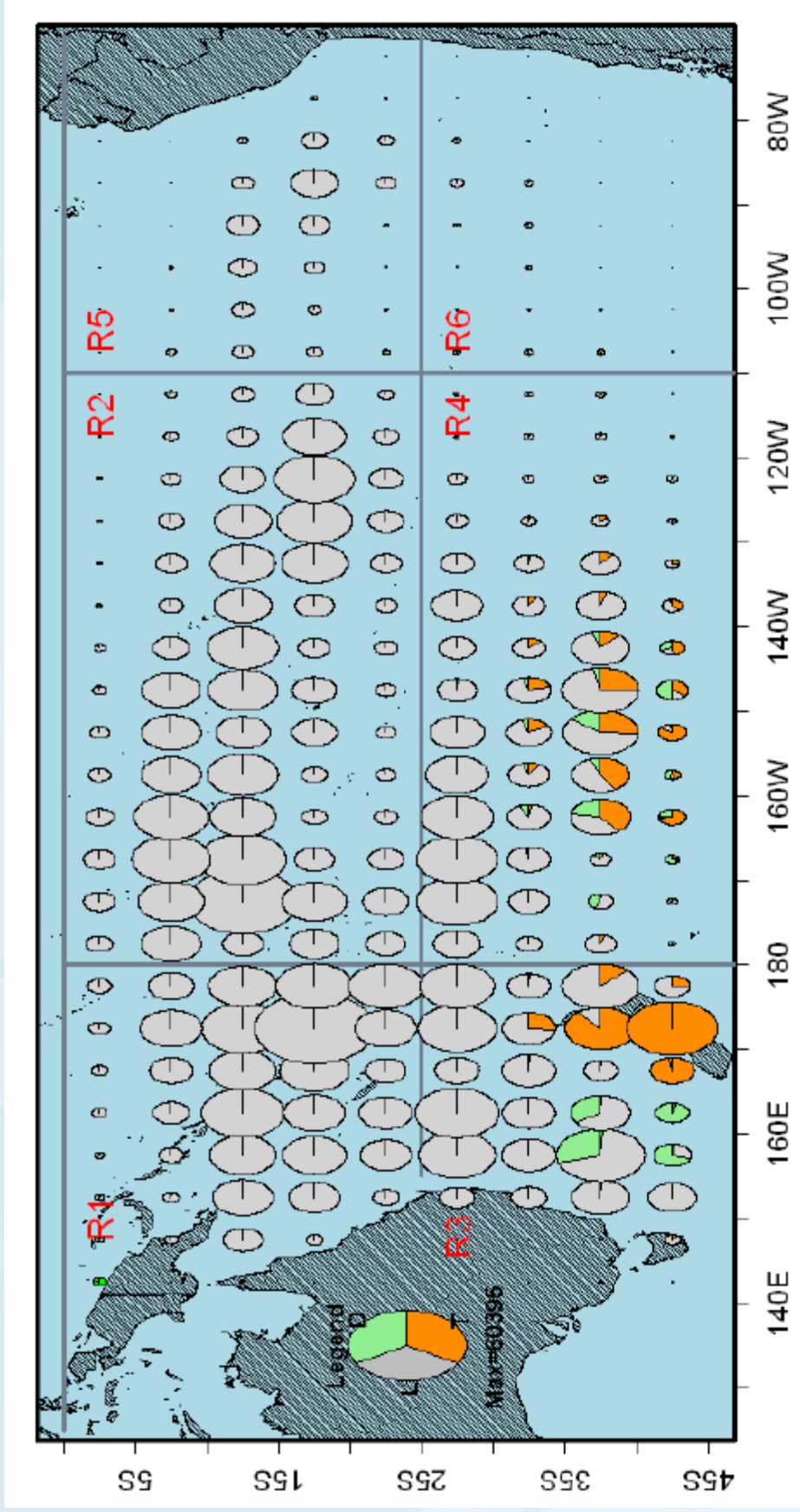


Too much effort /
Too many boats

Not enough fish to sustain the fishery



Albacore assessment model

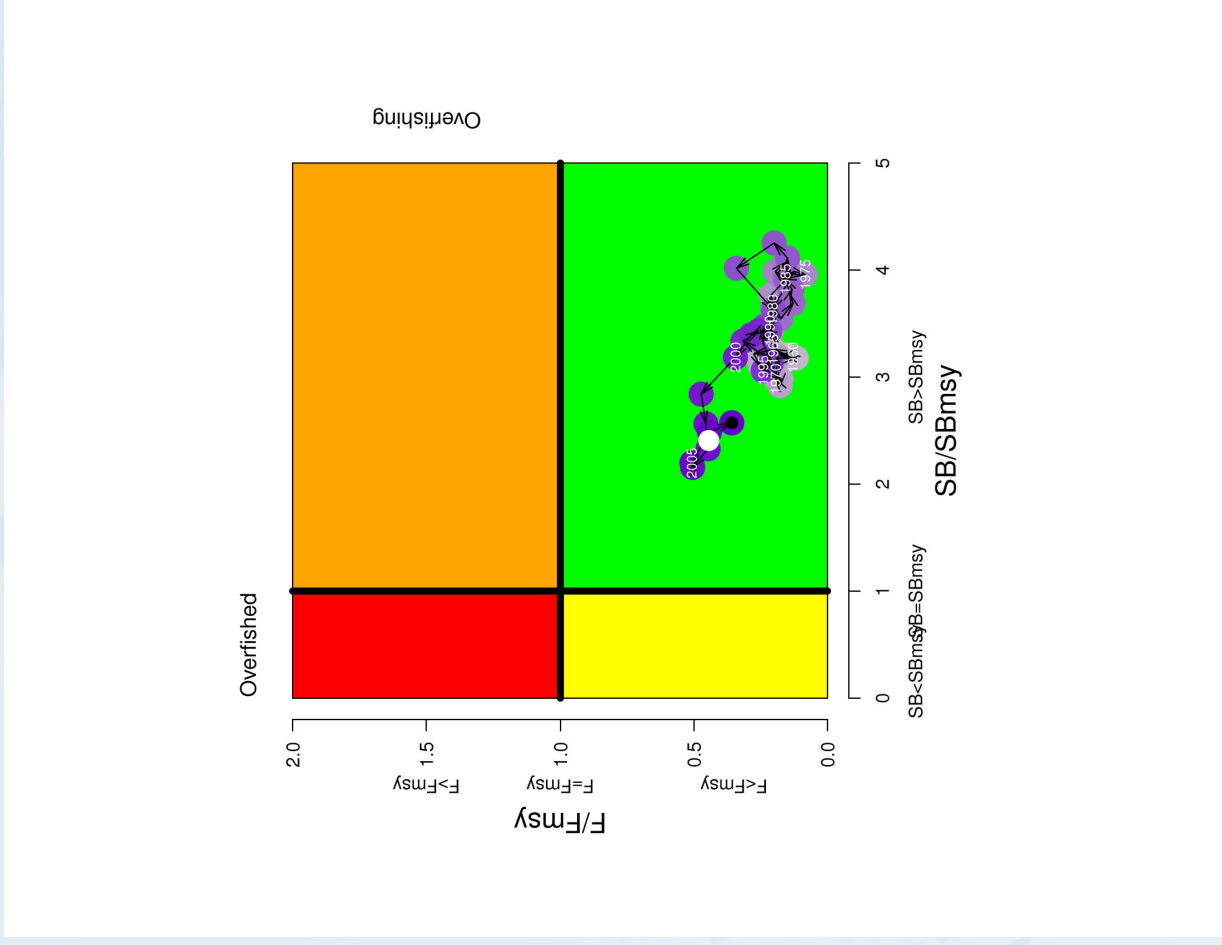


Albacore

Stock status is:

No overfishing

Not overfished



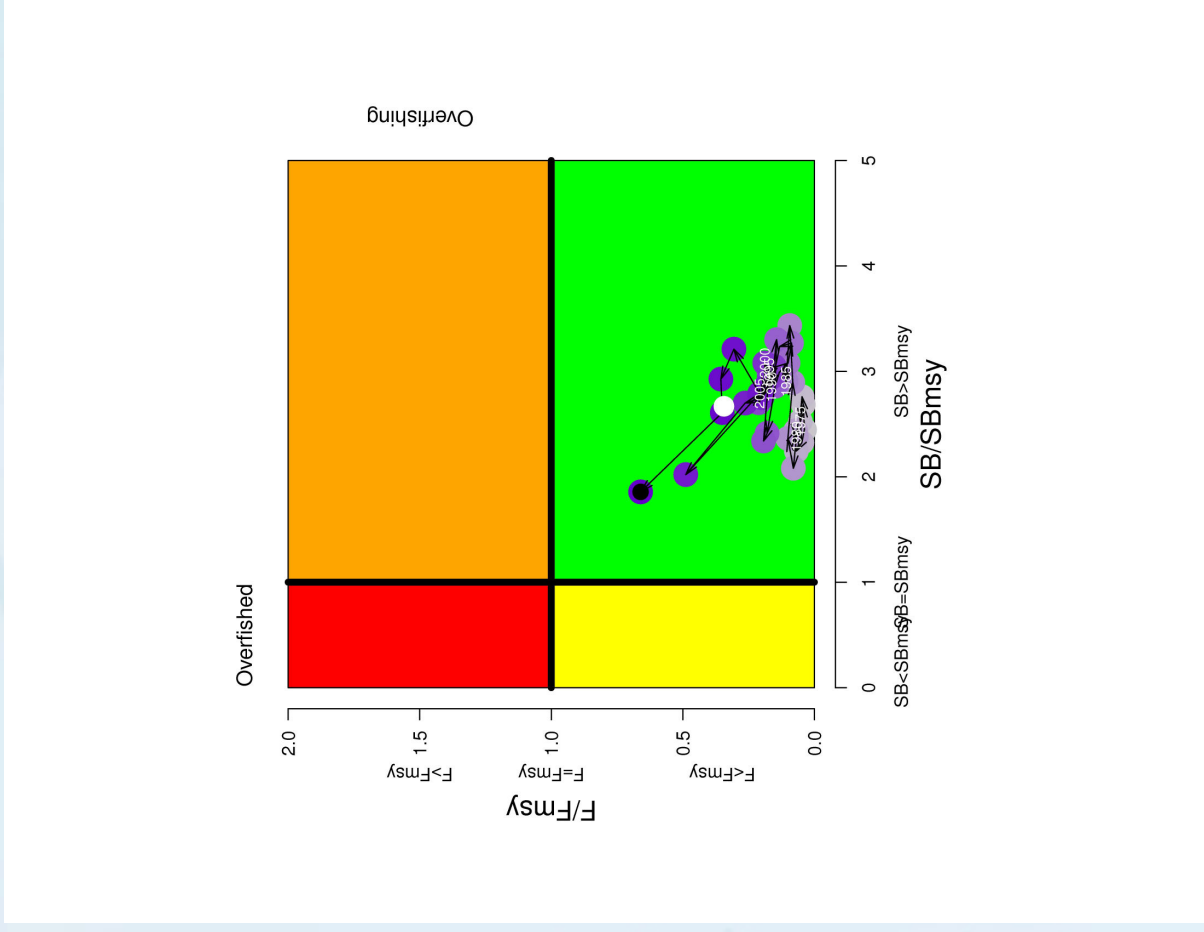


Skipjack tuna

Stock status is:

No overfishing

Not overfished





Yellowfin tuna

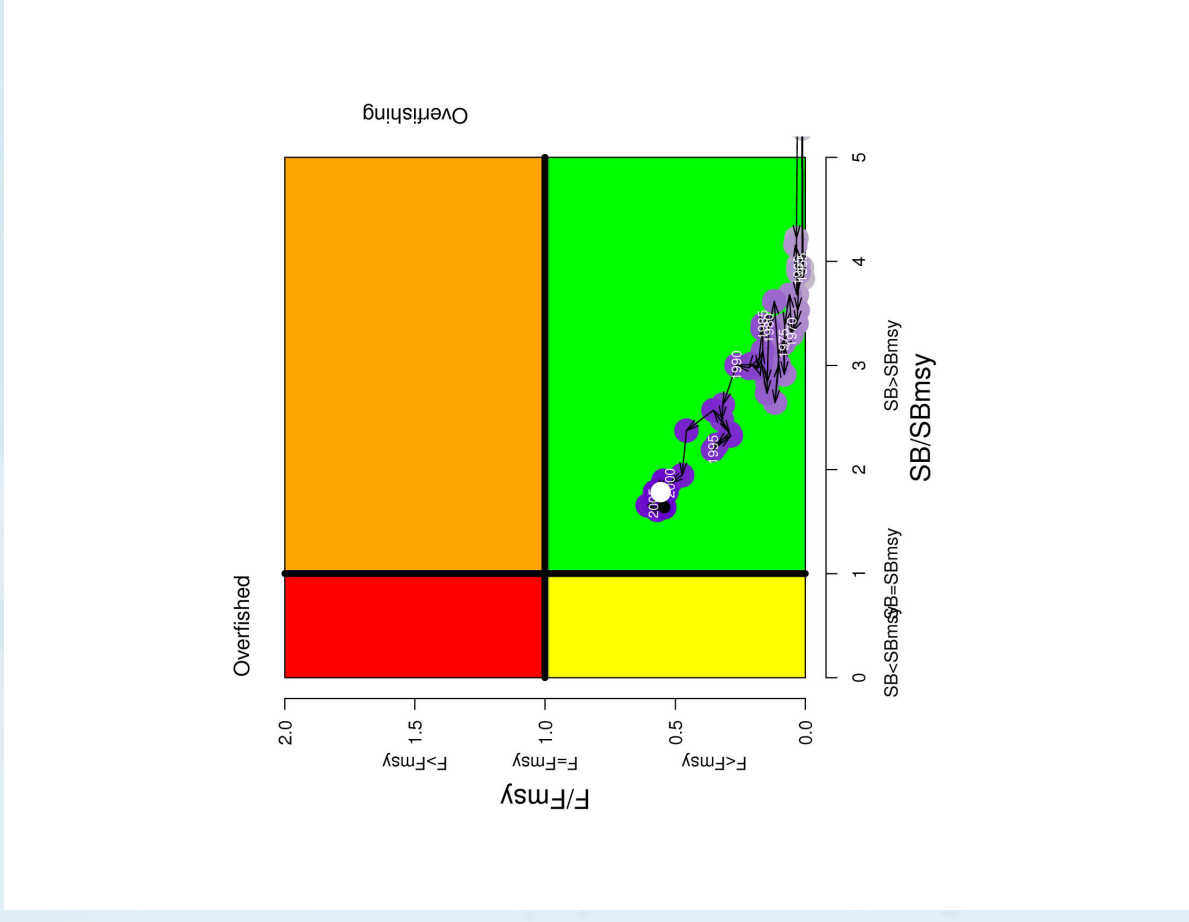
Stock status is:

No overfishing

Not overfished

NOTE:

Heavily fished in equatorial region.



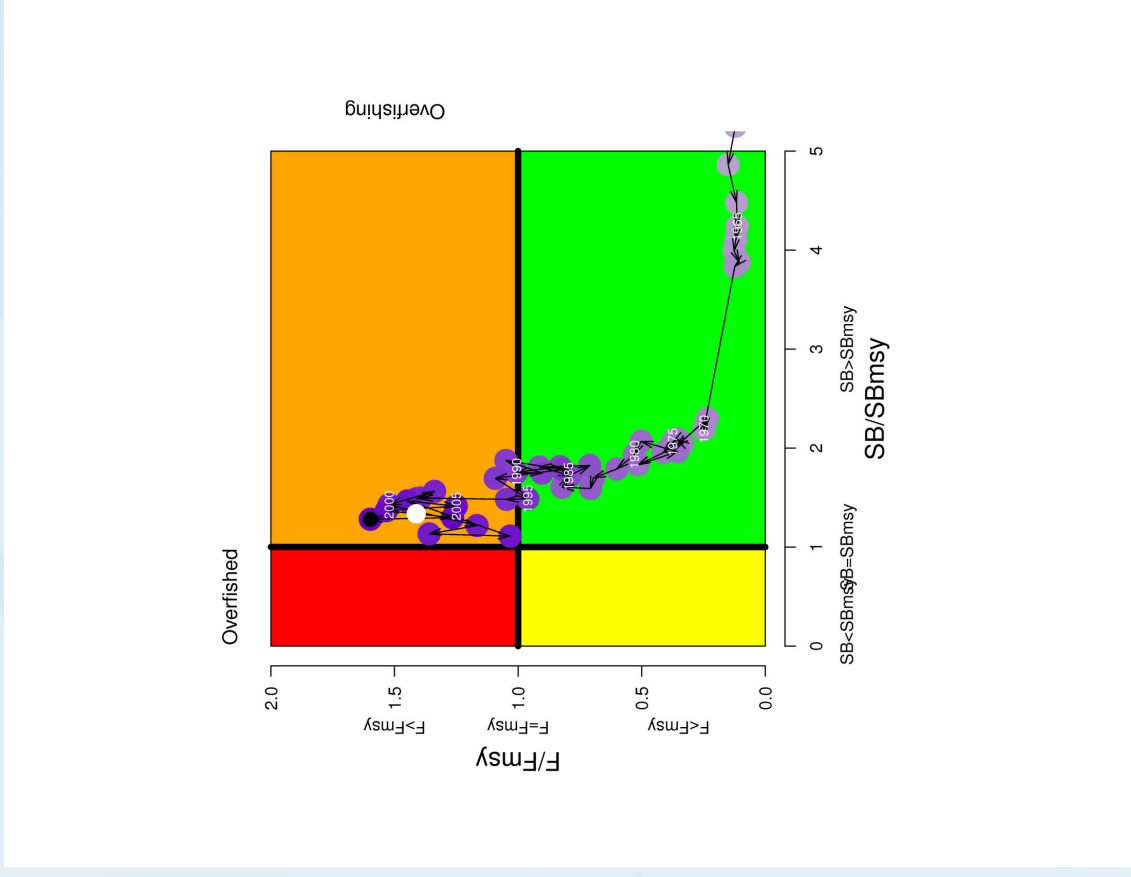


Bigeye tuna

Stock status is:

Overfishing is occurring

Not yet overfished





Status summary

- All four stocks at or near their lowest observed biomass level
- Next assessments for all four species: this year

