



SECRETARIAT OF THE PACIFIC COMMUNITY
SÉCRÉTARIAT GÉNÉRAL DE LA COMMUNAUTÉ DU PACIFIQUE

Performance of Fiji's tuna longline fleet, and climate influences

Dr Graham Pilling, OFP

Aims

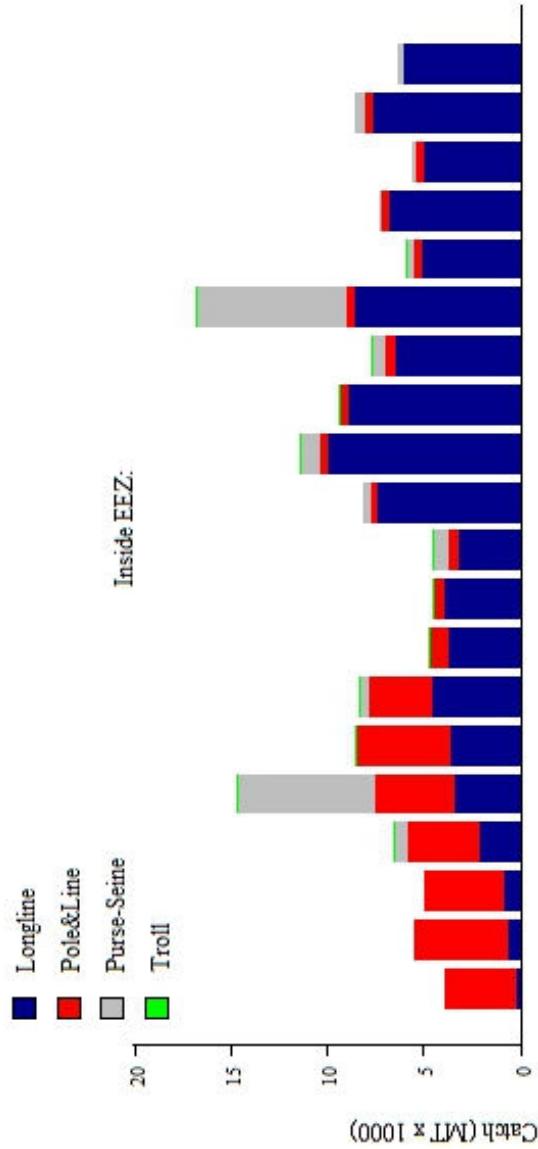
- Provide a description of the Fiji tuna fishery
- Summarise the 2004 economic analysis
- Examine trends in CPUE data
- Examine the influence of the climatic system on albacore fisheries in the region



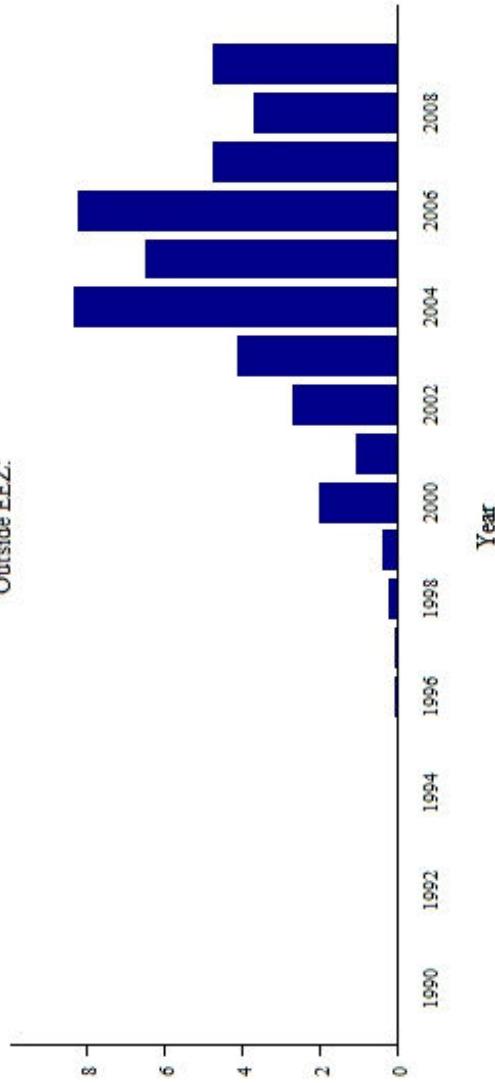
Description of the Fiji fishery



Total catch of target species by gear:

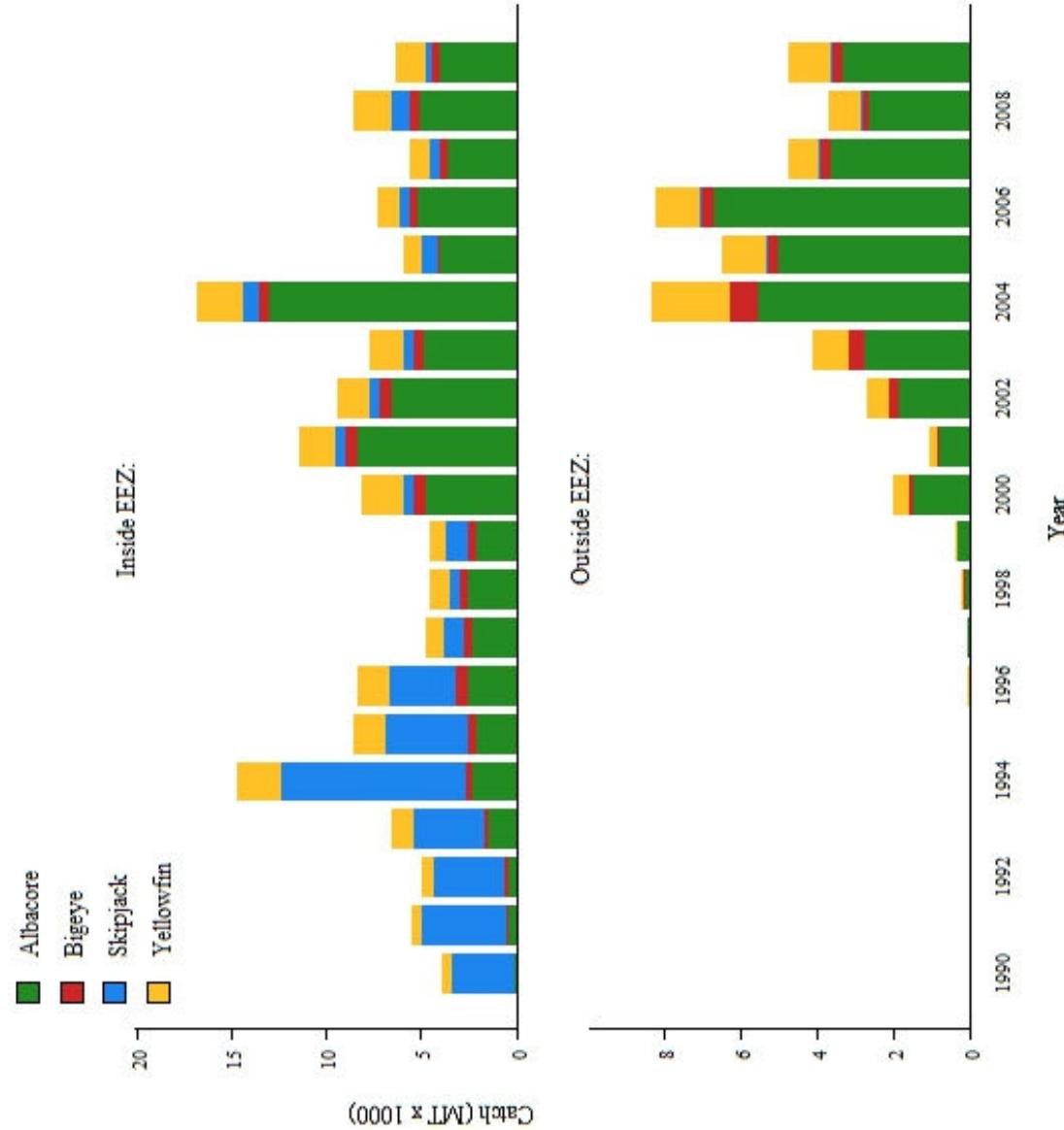


Outside EEZ:



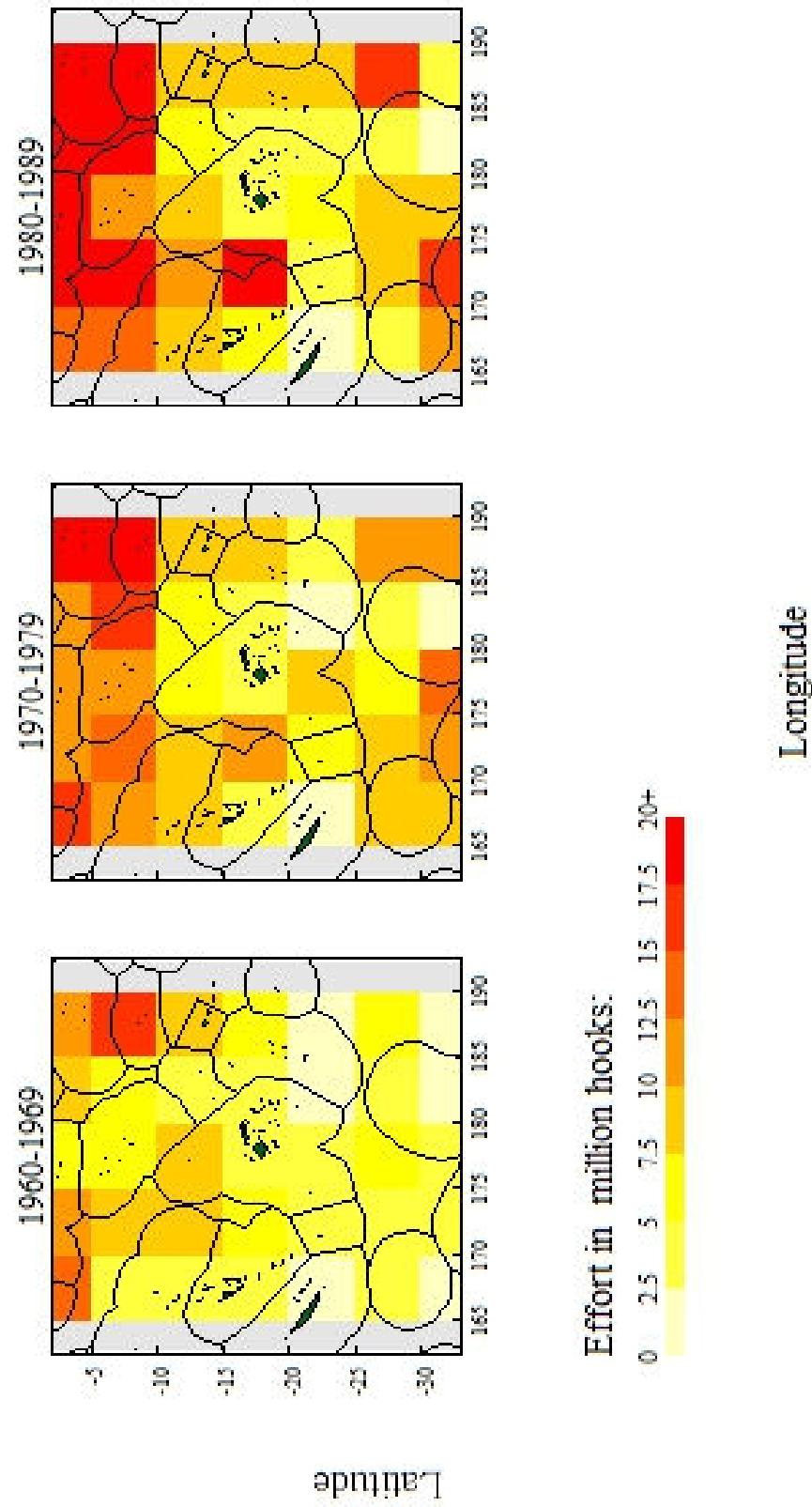


Total catch by target species:



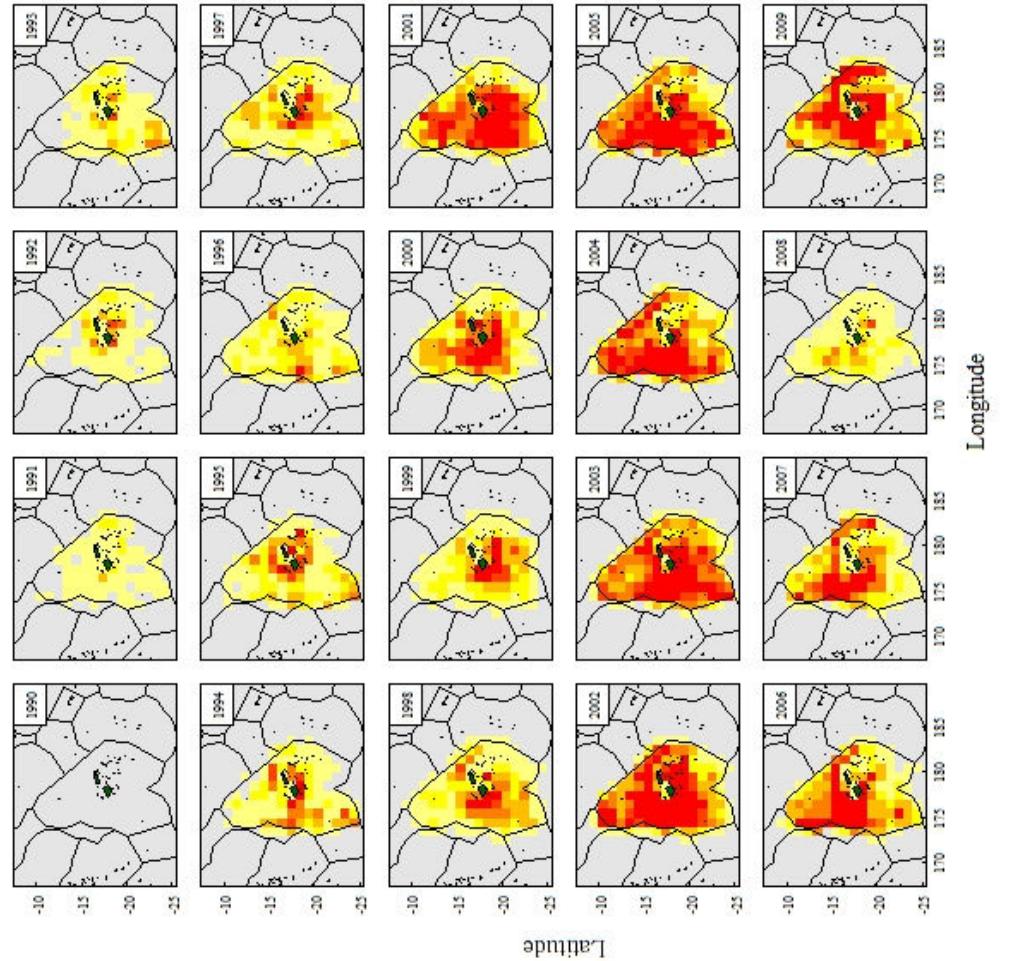


Longline fishing effort (aggregated by decade):





Aggregated longline fishing effort

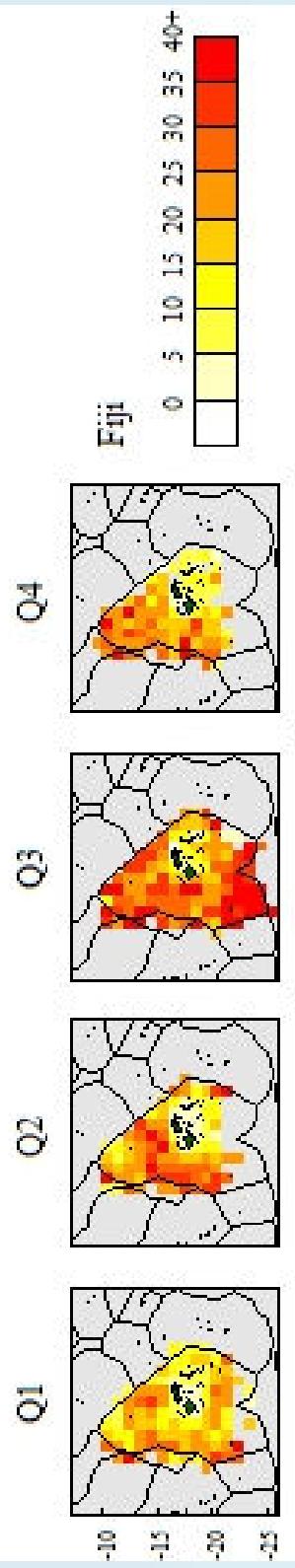


Effort in hundred thousand hooks

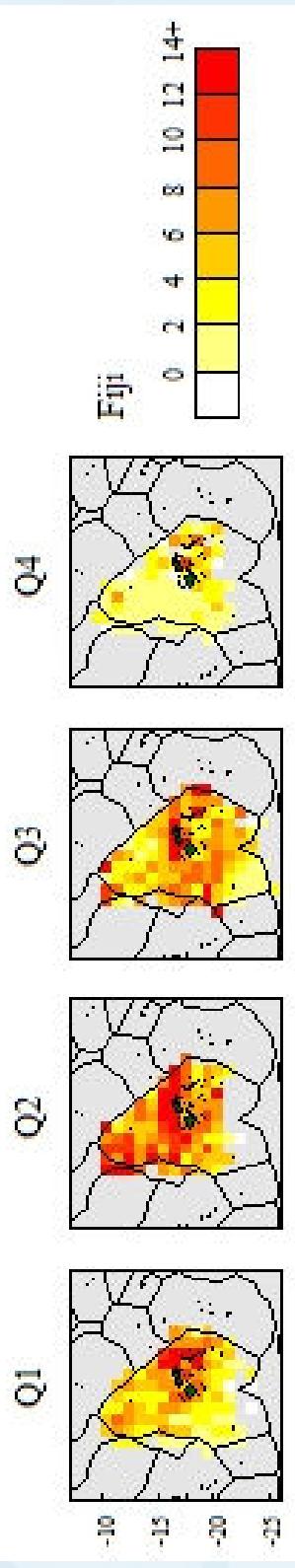




Mean Albacore tuna CPUE (kg/hundred hooks) for the longline fishery:

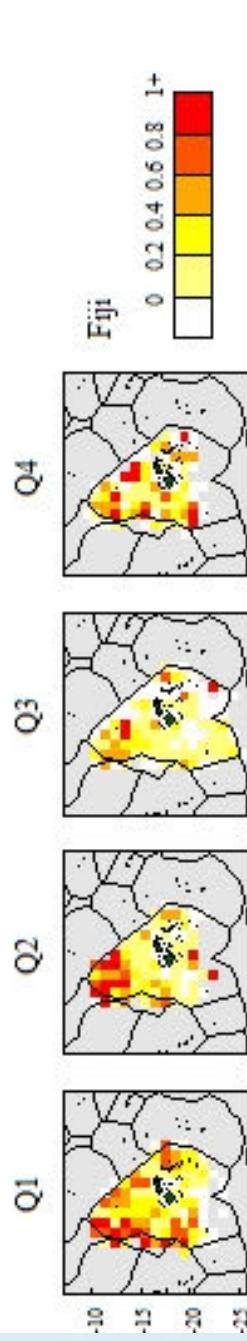


Mean Yellowfin tuna CPUE (kg/hundred hooks) for the longline fishery:

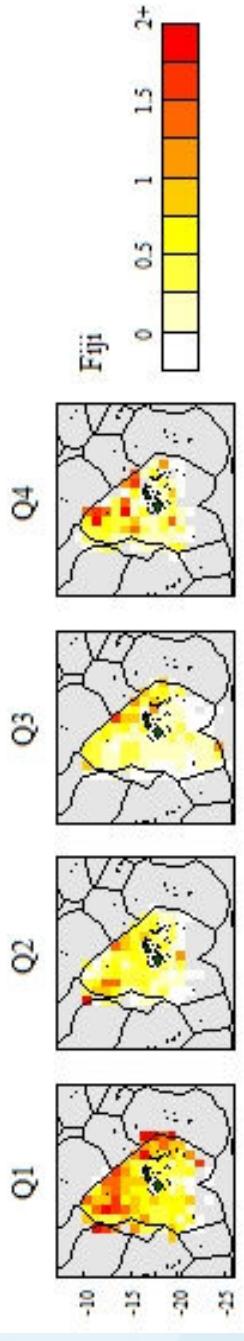




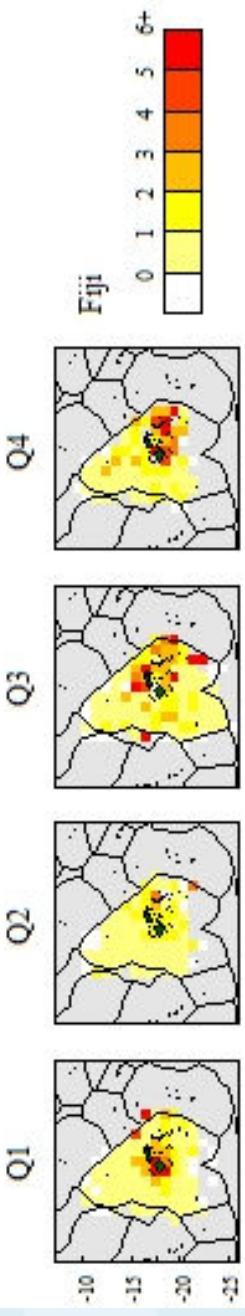
Mean Black marlin CPUE (kg/hundred hooks) for the longline fishery:



Mean Blue marlin CPUE (kg/hundred hooks) for the longline fishery:

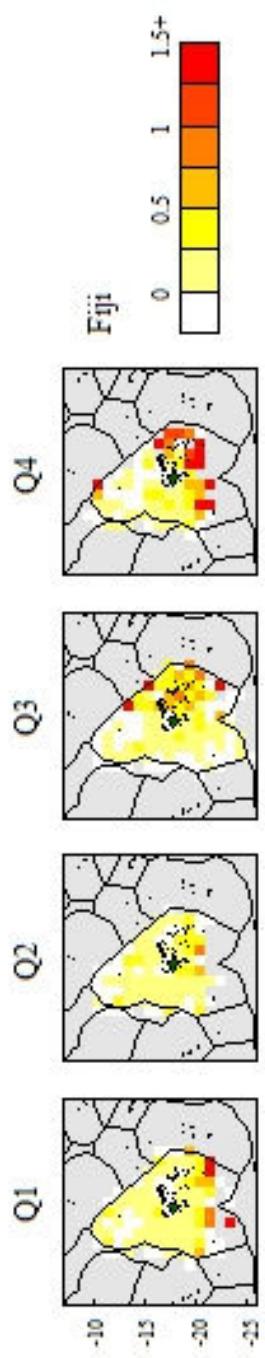


Mean Mahi mahi CPUE (kg/hundred hooks) for the longline fishery:

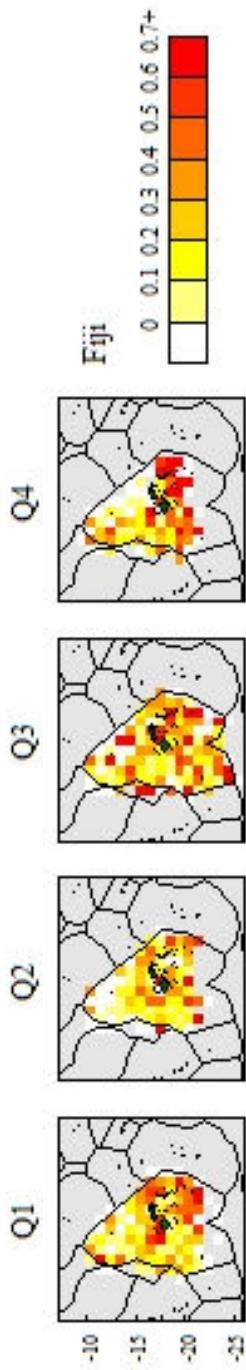




Mean Striped marlin CPUE (kg/hundred hooks) for the longline fishery:

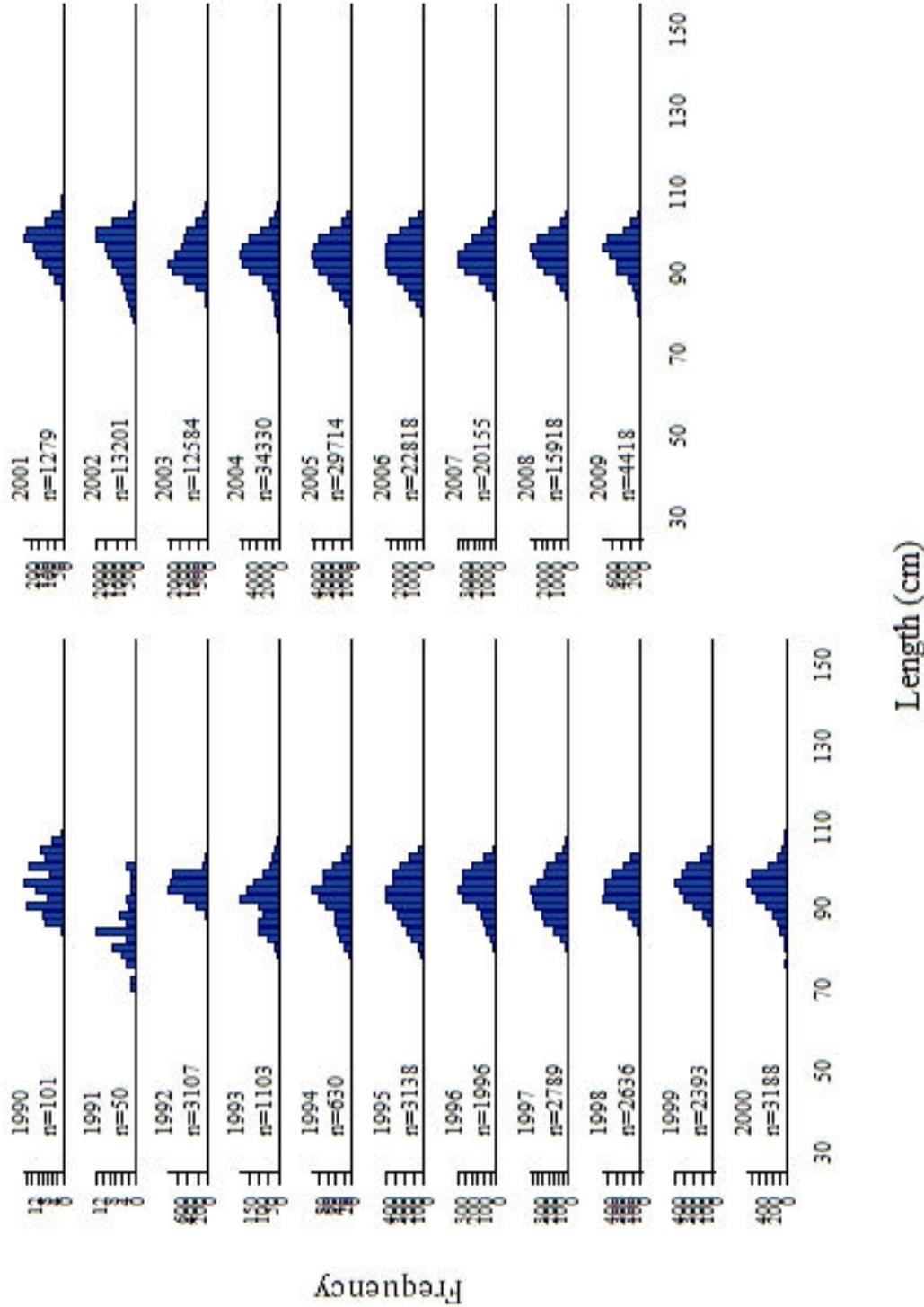


Mean Swordfish CPUE (kg/hundred hooks) for the longline fishery:



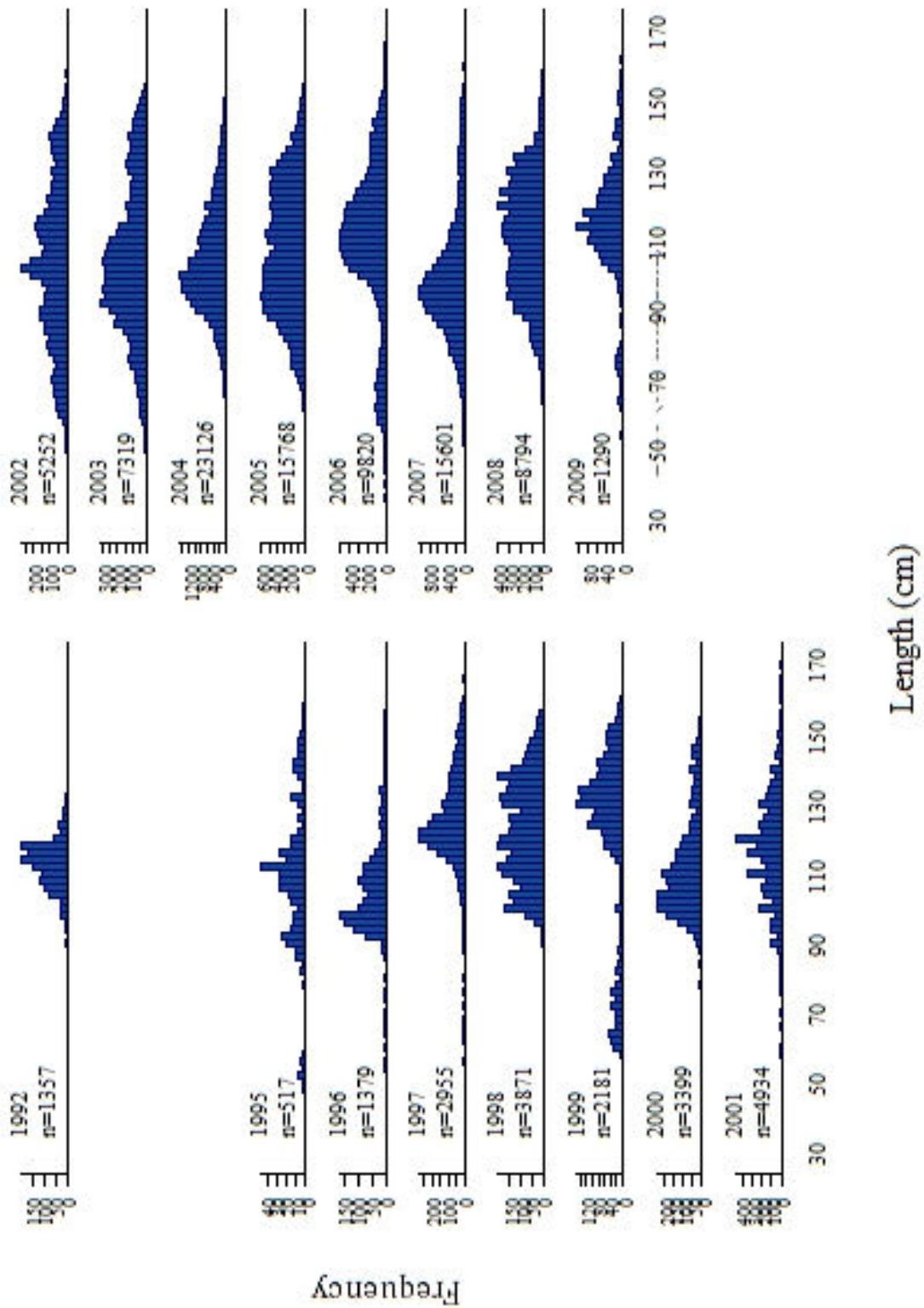


Size frequency for Albacore tuna (all flags combined)





Size frequency for Yellowfin tuna (all flags combined)

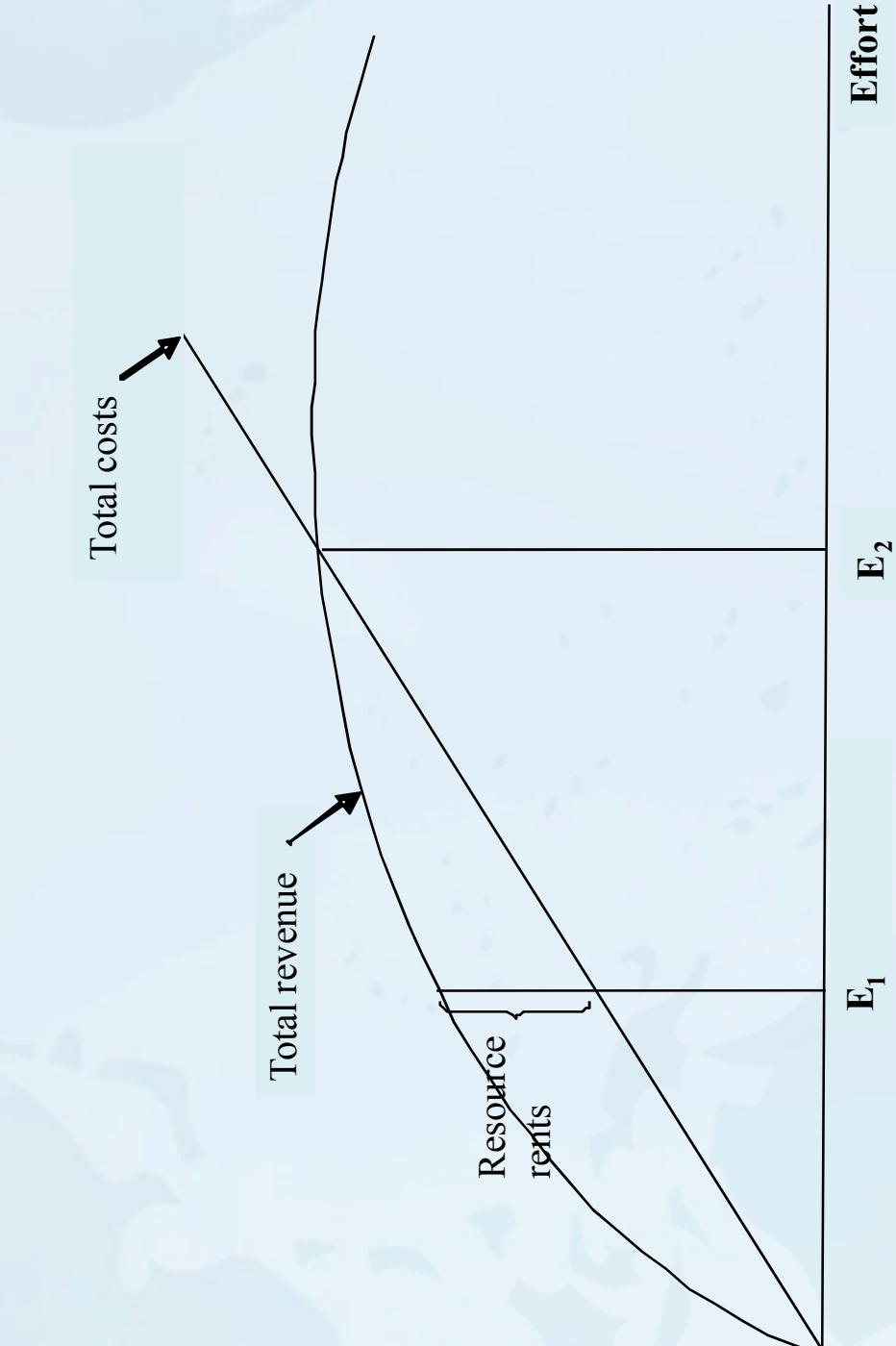




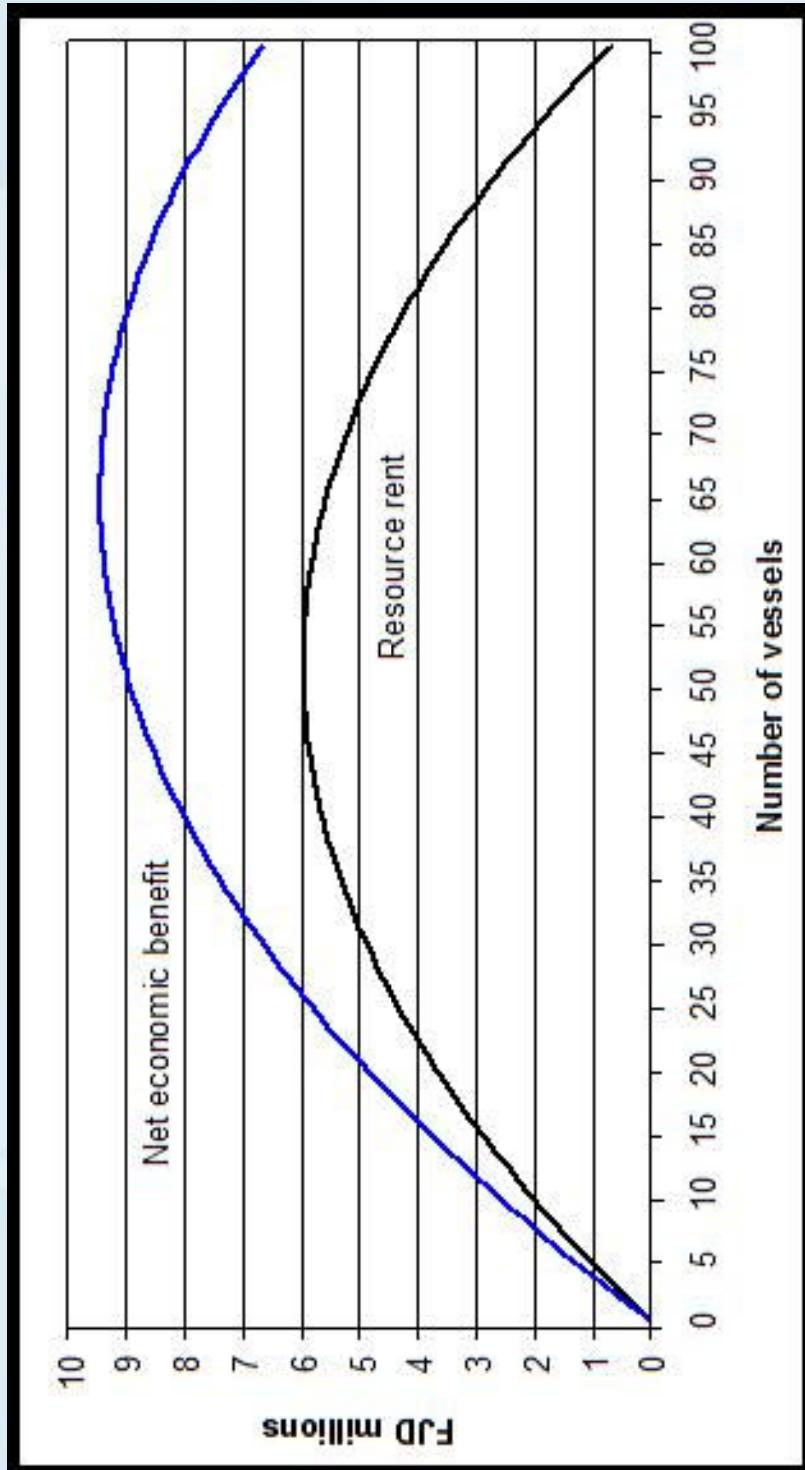
2004 FFA/SPC economic analysis

2004 Economic analysis

Revenue
/Costs



2004 outputs



Many assumptions (incl. average 419,000 hooks/vessel/yr)

2004 outputs

Max. net economic benefit

Scenario	No. hooks (millions)	No. vessels
'Base case'	27	64
Cost 10% lower	33.5	80
Cost 10% higher	21	50

- Remember:
 - 2004 analysis
 - Costs and prices changed
 - Fleet fishing pattern changed?
 - Vessel efficiency (and number of hooks) changed?



**Trends in CPUE and Environmental
influences also presented
[not included here]**



**Thanks for listening.
Any questions?**