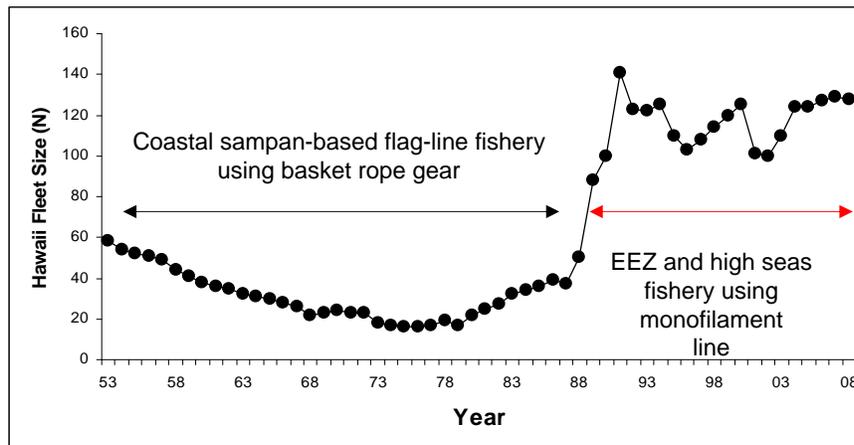


Hawaii Longline Fishery

False Killer Whale Take Reduction
Team Meeting
February 17-February 18, 2010



Longline fishing in Hawaii: a century of fishing





Hawaii Longliners



Hawaii Longliners

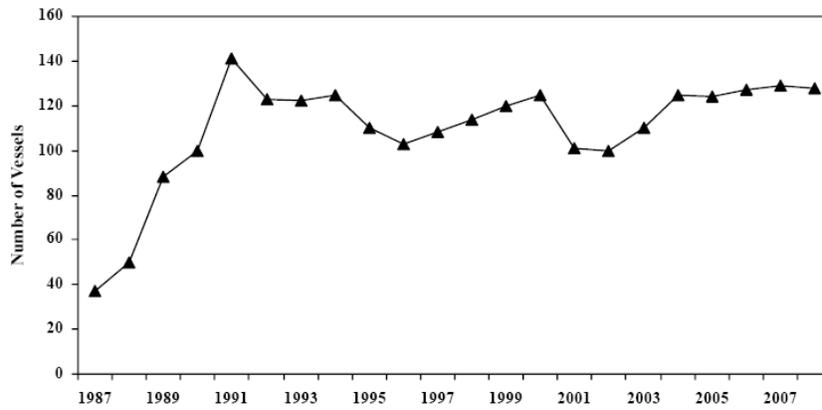


5



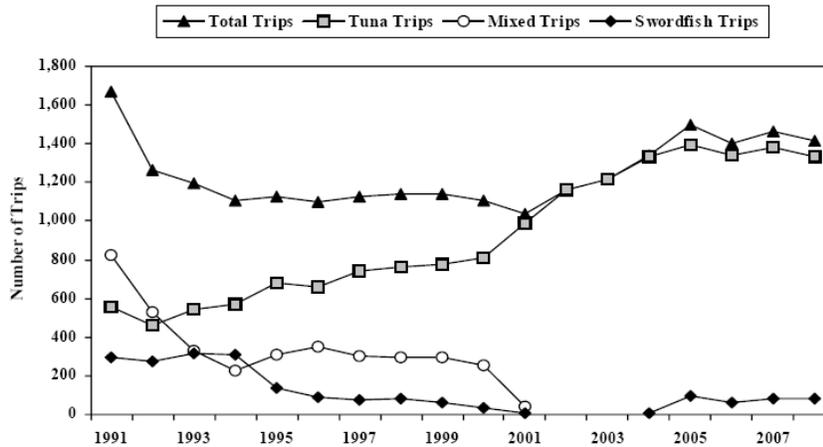
6

Fleet size



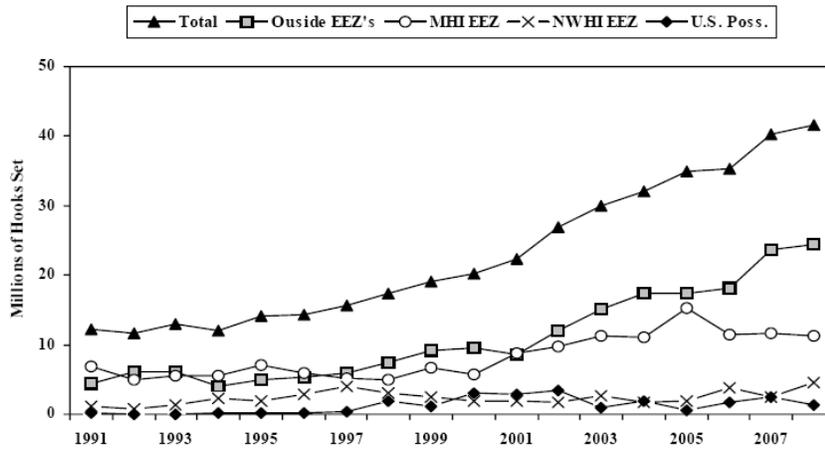
7

Trips



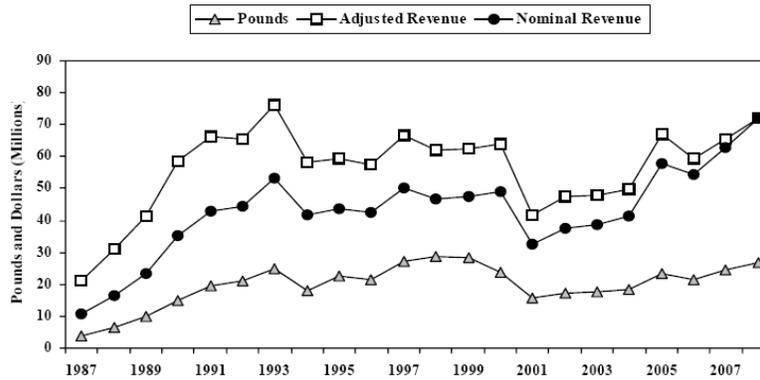
8

Hooks



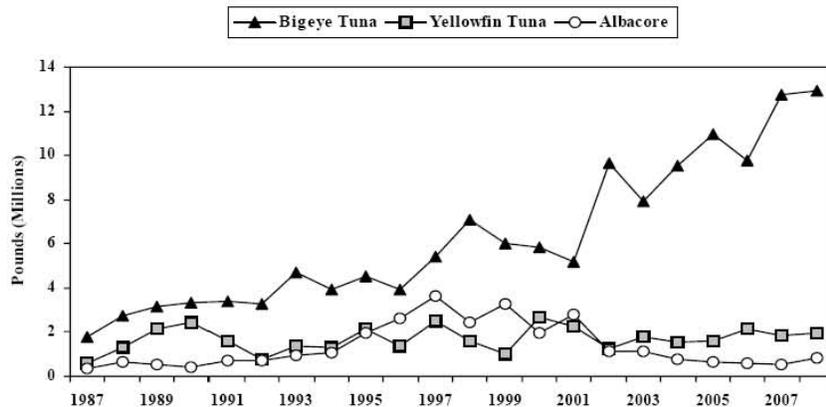
9

Catch and revenue



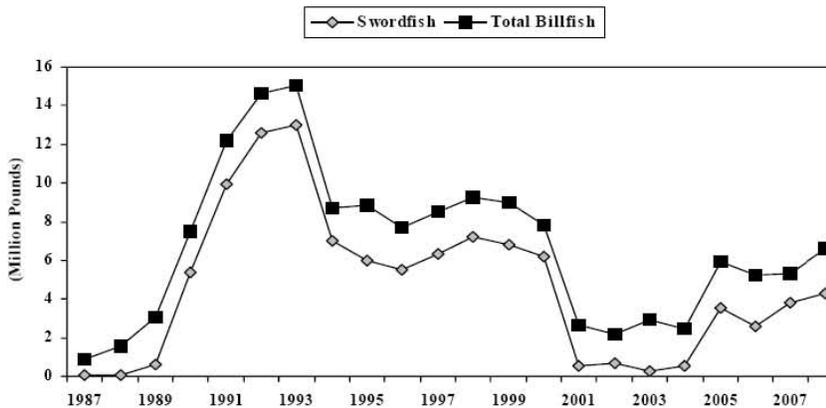
10

Tuna catch



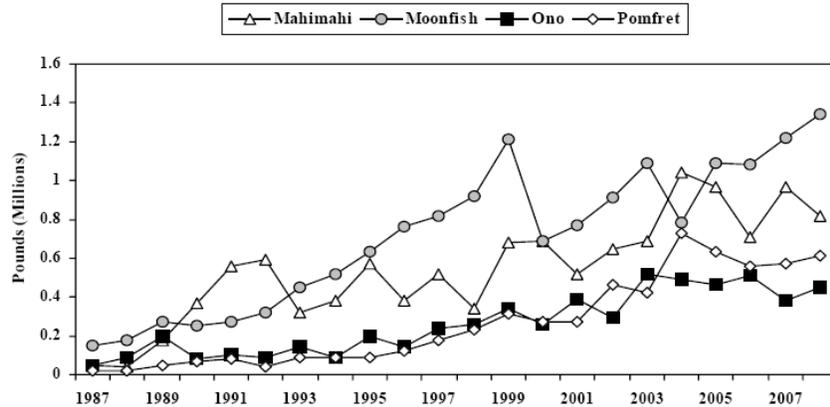
11

Swordfish and billfish



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Other commercial pelagics

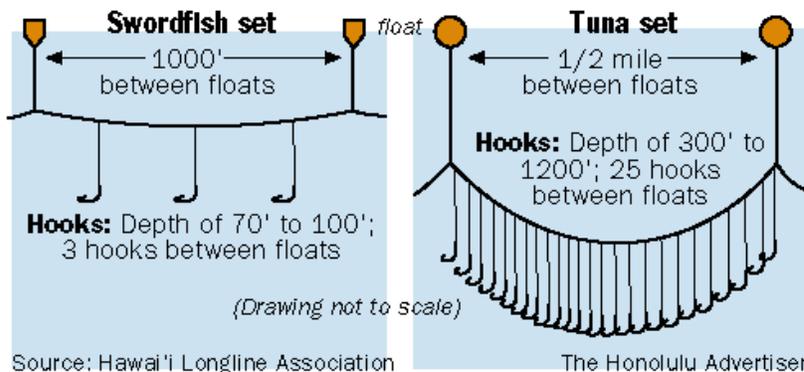


13

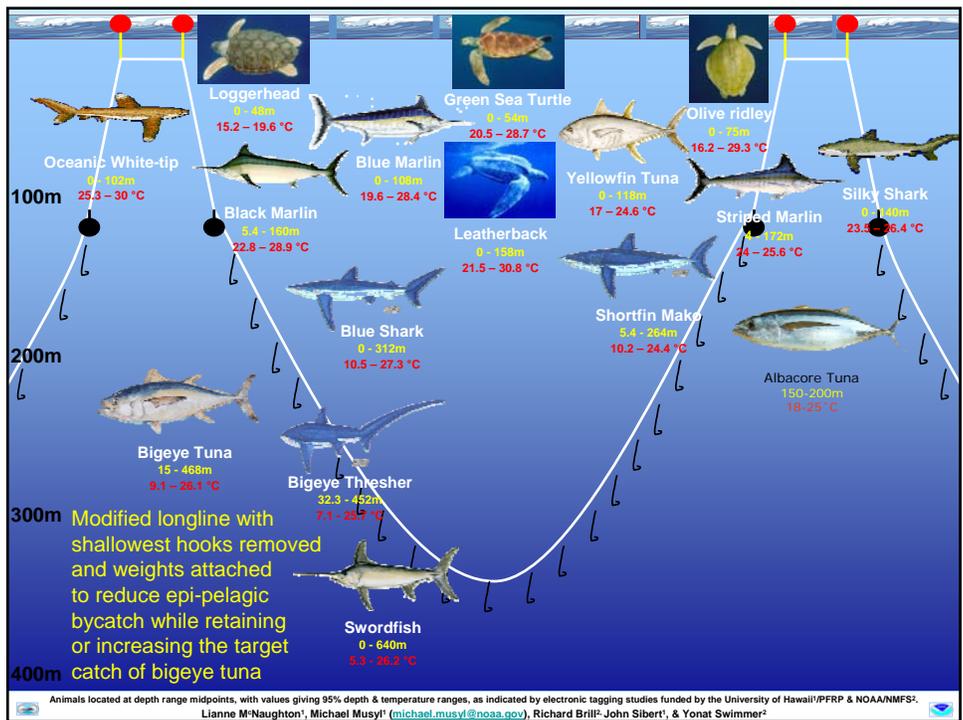
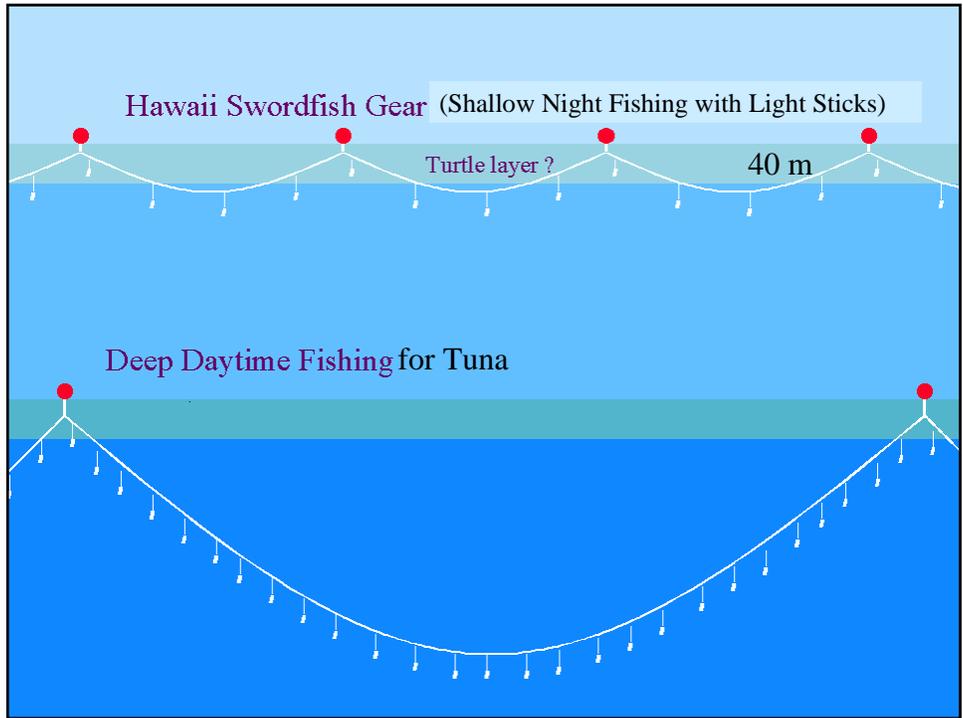
Shallow set longlining for swordfish takes the most turtles

Tuna vs. swordfish longlines

Tuna are generally found at greater depths than swordfish, which tend to move near the ocean surface. Tuna also feed by day, swordfish by night.



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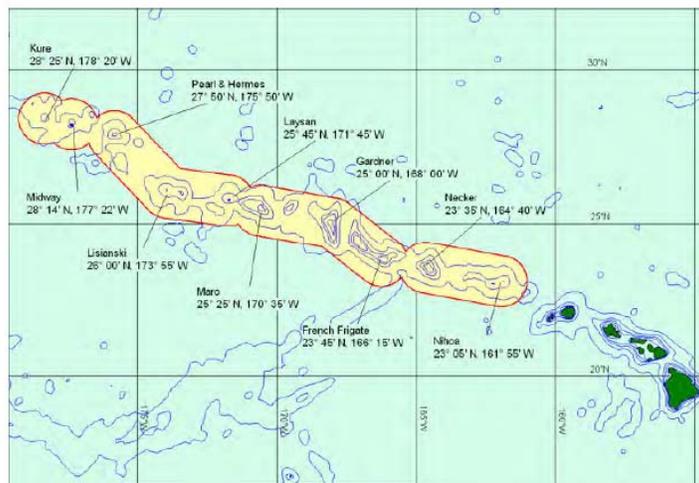


Circle Hooks, J Hooks & lightsticks



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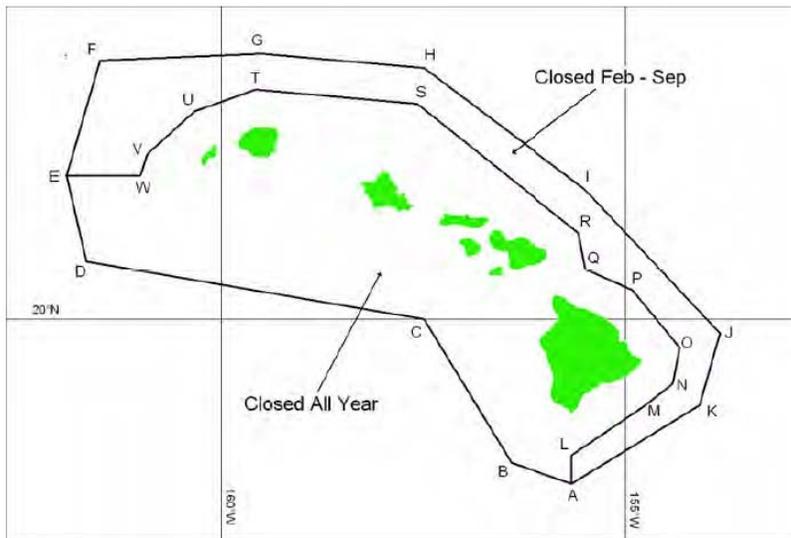
Longline closed areas



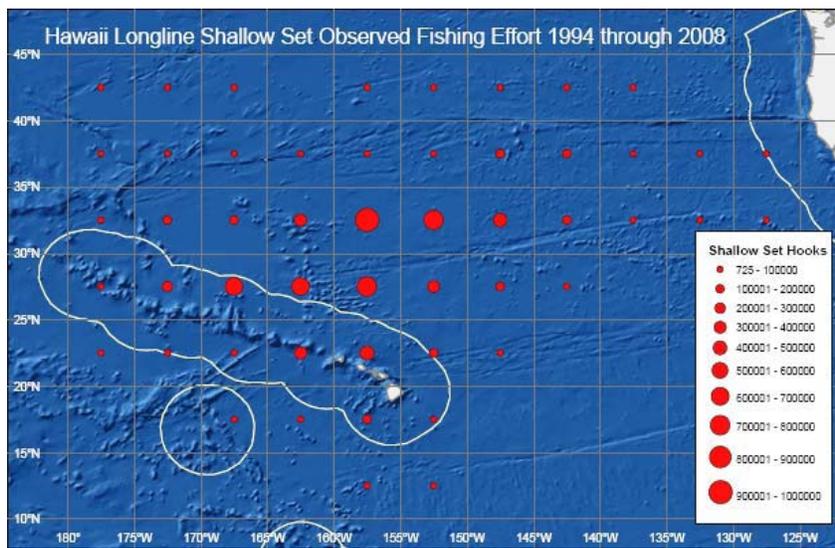
2

18

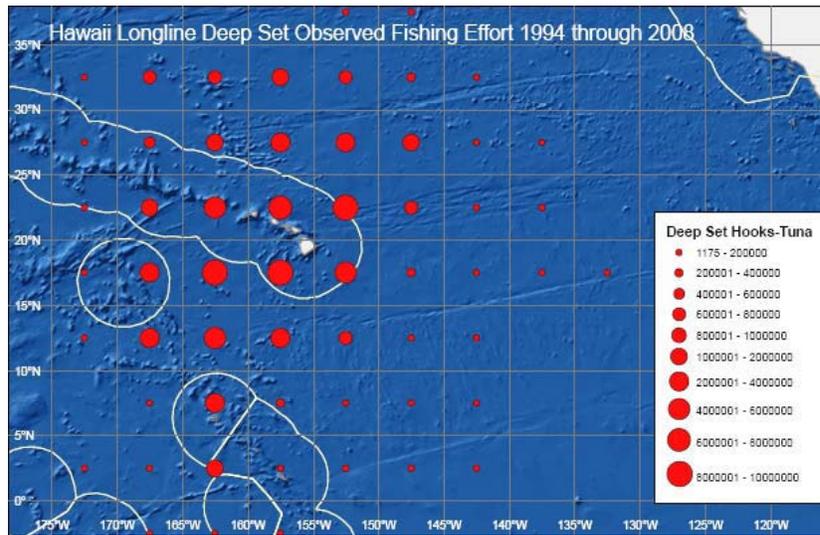
Longline closed areas



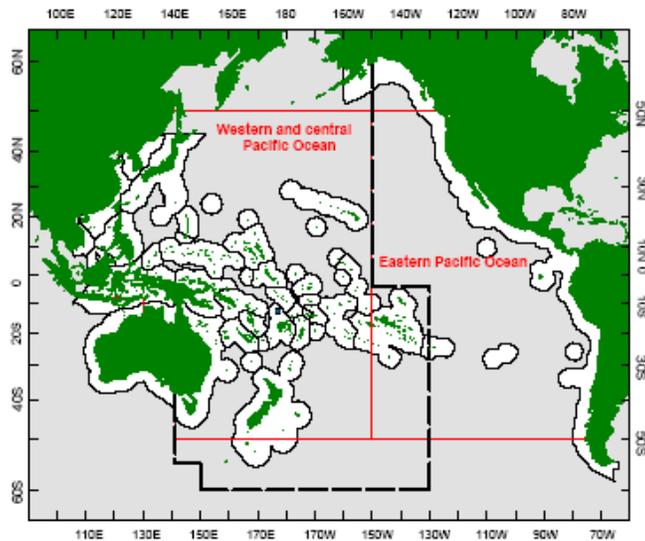
Shallow set swordfish longline fishing



Deep-set tuna longline fishing

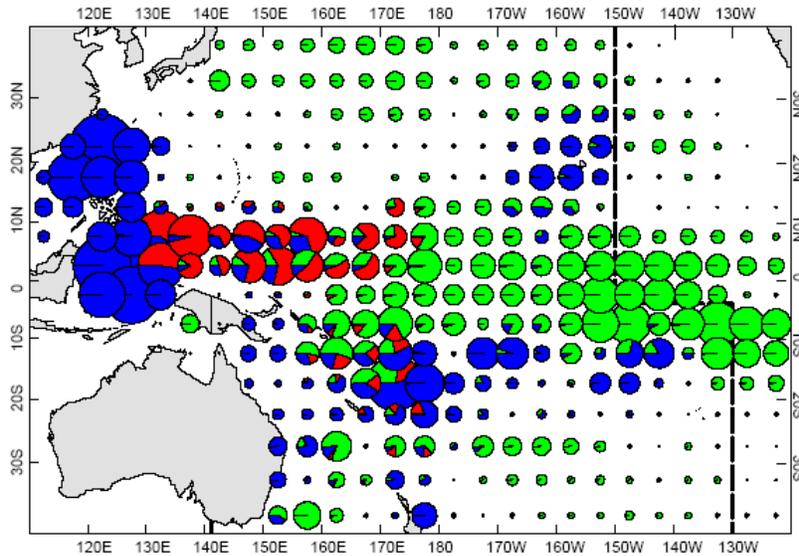


International Pelagic Fisheries



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Distribution of longline effort for distant-water fleets (green), foreign-offshore fleets (red) and domestic fleets (blue) for the period 2000-2007 (Domestic fleet effort excludes the Japanese coastal fishery and the Vietnam fishery; distant-water effort for Chinese-Taipei and other fleets targeting albacore in the North Pacific are poorly covered)

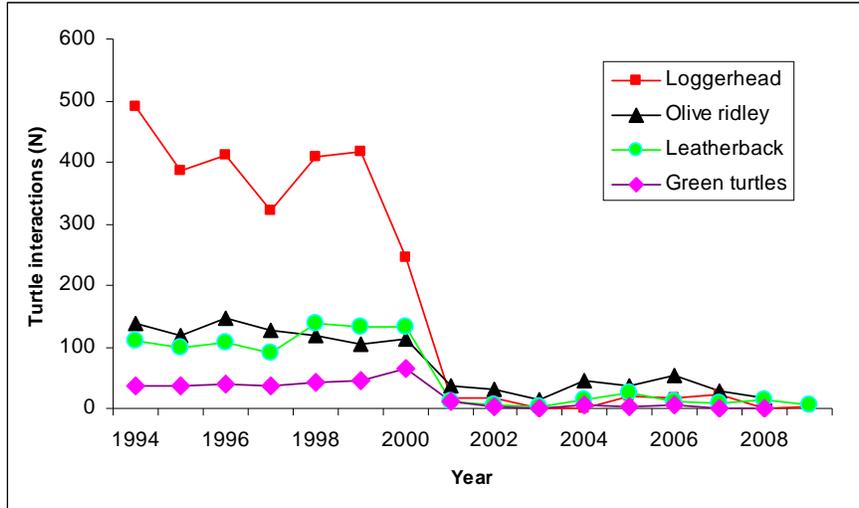


Major longline regulations

- Initially maximum of 2,120 Shallow-set Certificates is available each calendar year to Hawaii longline limited entry permit holders, set limit removed in 2010.
- The maximum annual limits on sea turtle interactions for the Hawaii shallow-set longline fishery were:
 - **16 leatherback sea turtles**
 - **17 loggerhead sea turtles**
 - **Now 46 loggerheads and 16 leatherback**
- If either of the two sea turtle interaction limits is reached, the shallow-set fishery will be closed for the remainder of the calendar year.
- Shallow set fishery: 18/0 circle hooks with 10 degree offset and mackerel bait
- Continuation 100% observer coverage
- Deep set fishery: float lines longer than 20 m (65 ft 7 in) in length on board Minimum of 15 branch lines between any two floats, except for basket gear, which has a minimum of 10 branch lines between any two floats, no light sticks (light emitting devices) on board
- Minimum 20% observer coverage
- Mandatory handling and release provisions for all vessels
- Annual protected species workshop

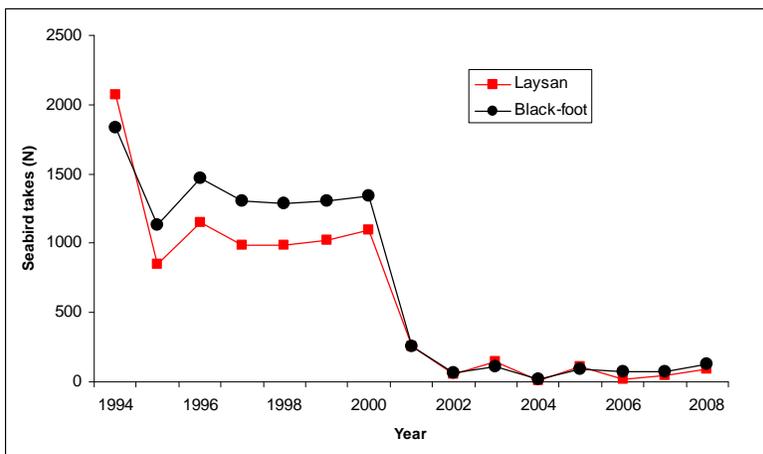
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Hawaii LL fishery: turtle interactions 1994-2008



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Hawaii LL fishery: seabird interactions 1994-2008

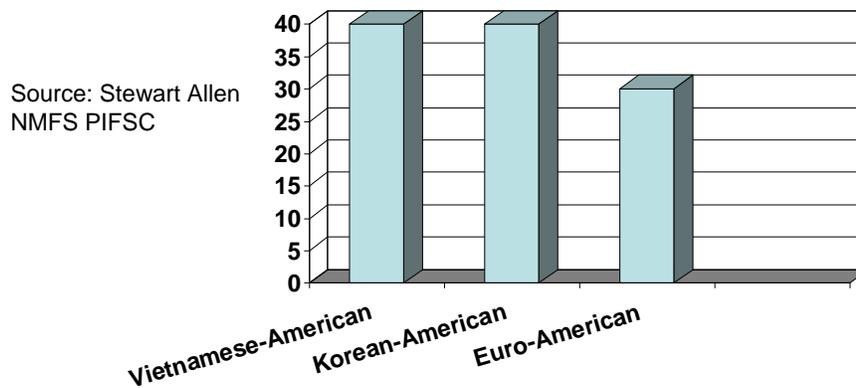


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FKW interactions
Over to you, Karin!

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Ethnicity of longline vessel owners



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Differences based on ethnicity

- Past experiences shape attitudes towards NMFS and regulations so each ethnic group has different orientations toward new regulations
- Not all fishermen active in HLA so can't use it as a proxy for longline fishermen
- Regulations may be more effective with some ethnic groups than expectations for voluntary actions or self-regulation
- However, each ethnic group not homogeneous; independent social networks present within each

Source: Stewart Allen
NMFS PIFSC

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Mahalo

Pau

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