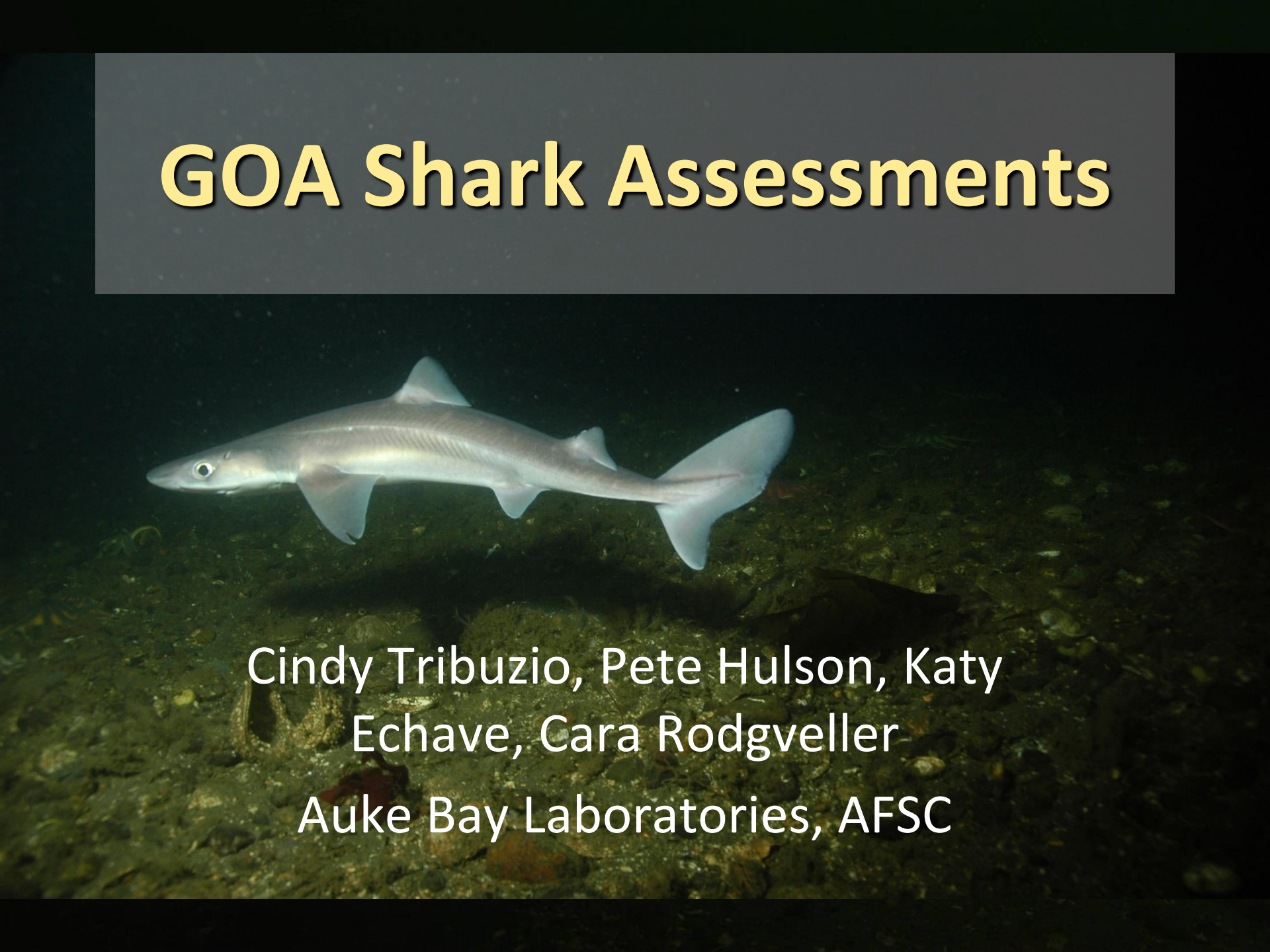
GOA Shark Assessments



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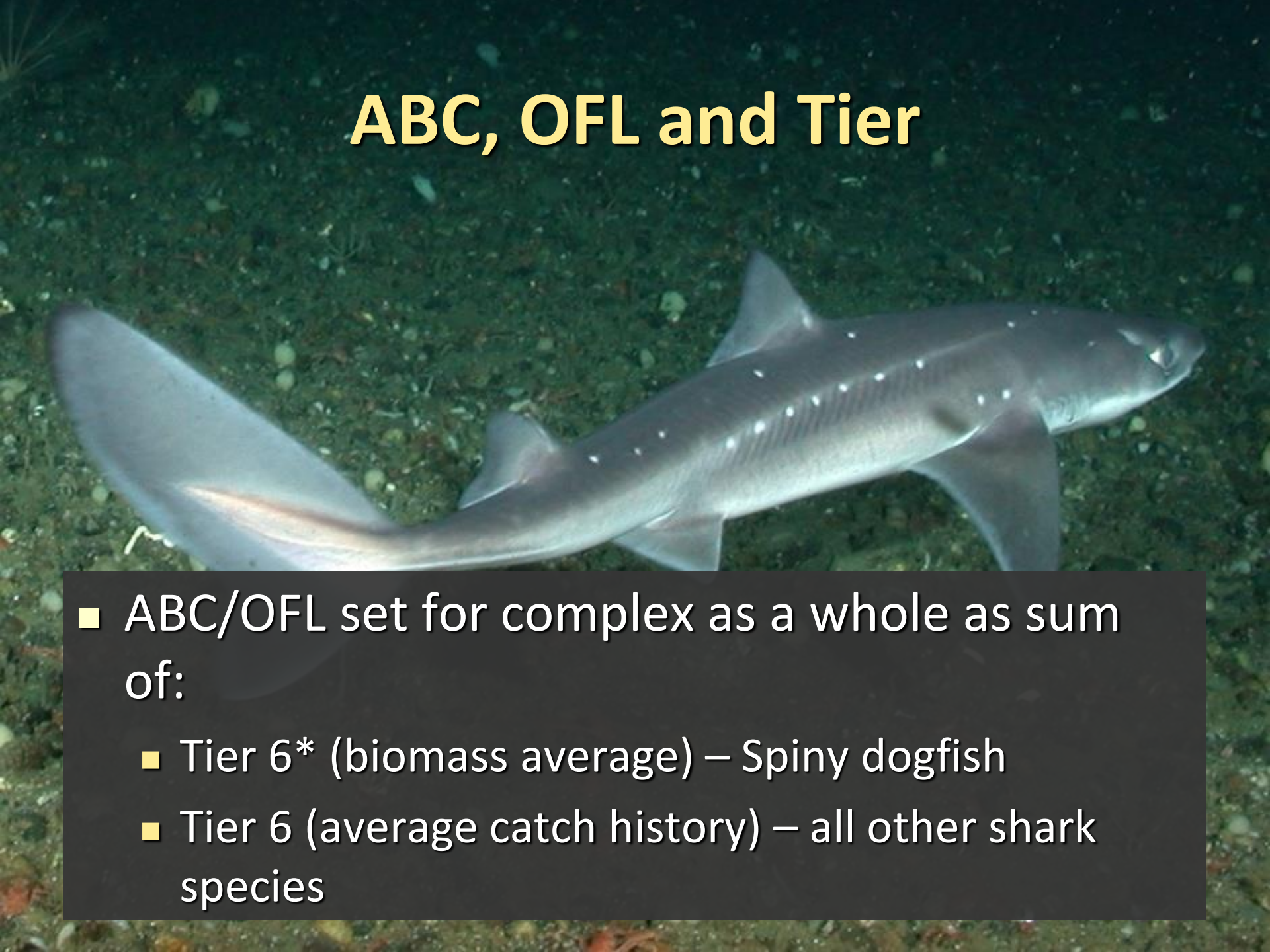
GOA Sharks

- Executive Summary Only
- New for 2014:
  - Updated catch data for 2013 and 2014 (as of Oct 1, 2014)

ABC, OFL and Tier

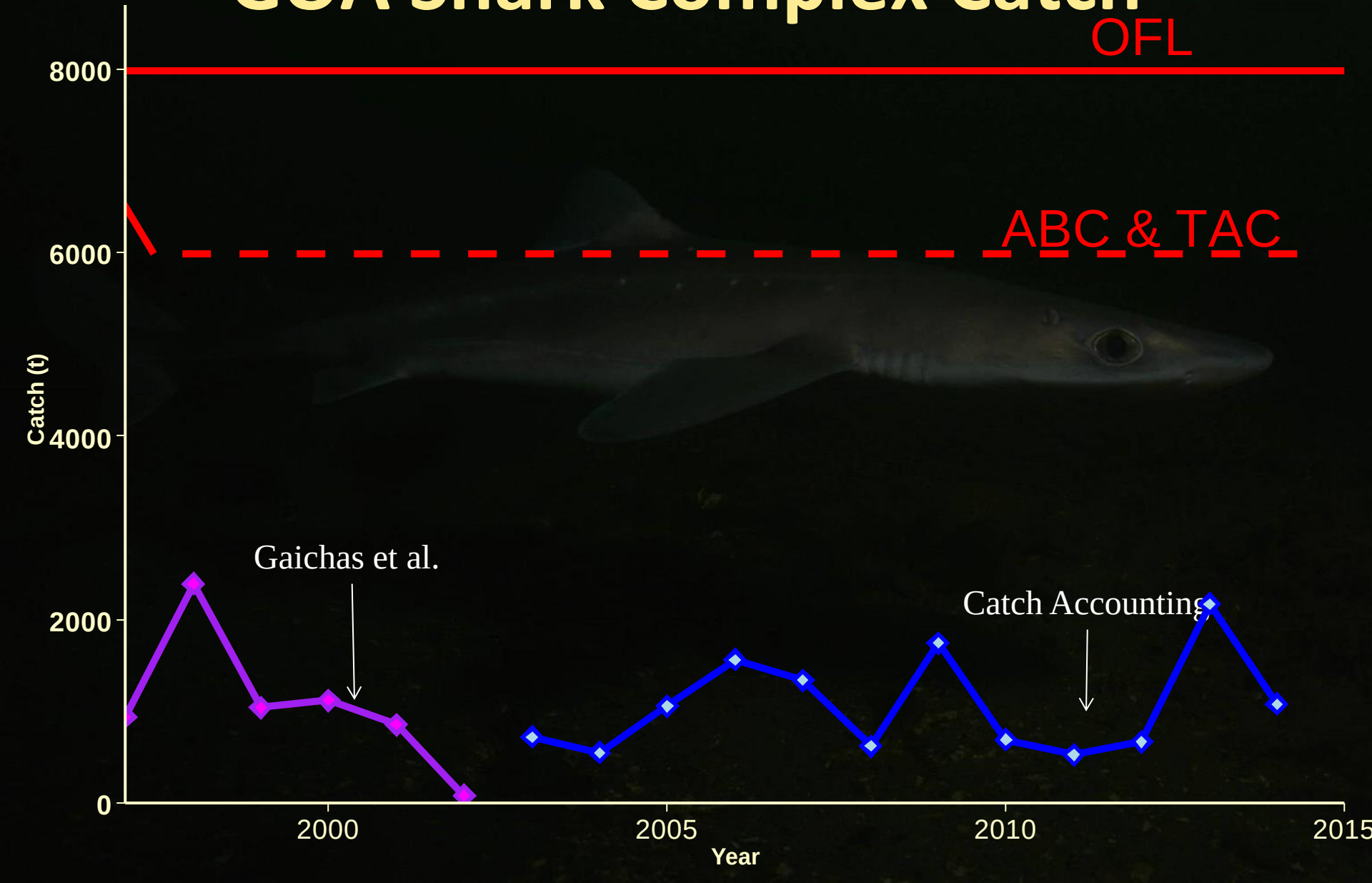


- ABC/OFL set for complex as a whole as sum of:
  - Tier 6* (biomass average) – Spiny dogfish
  - Tier 6 (average catch history) – all other shark species

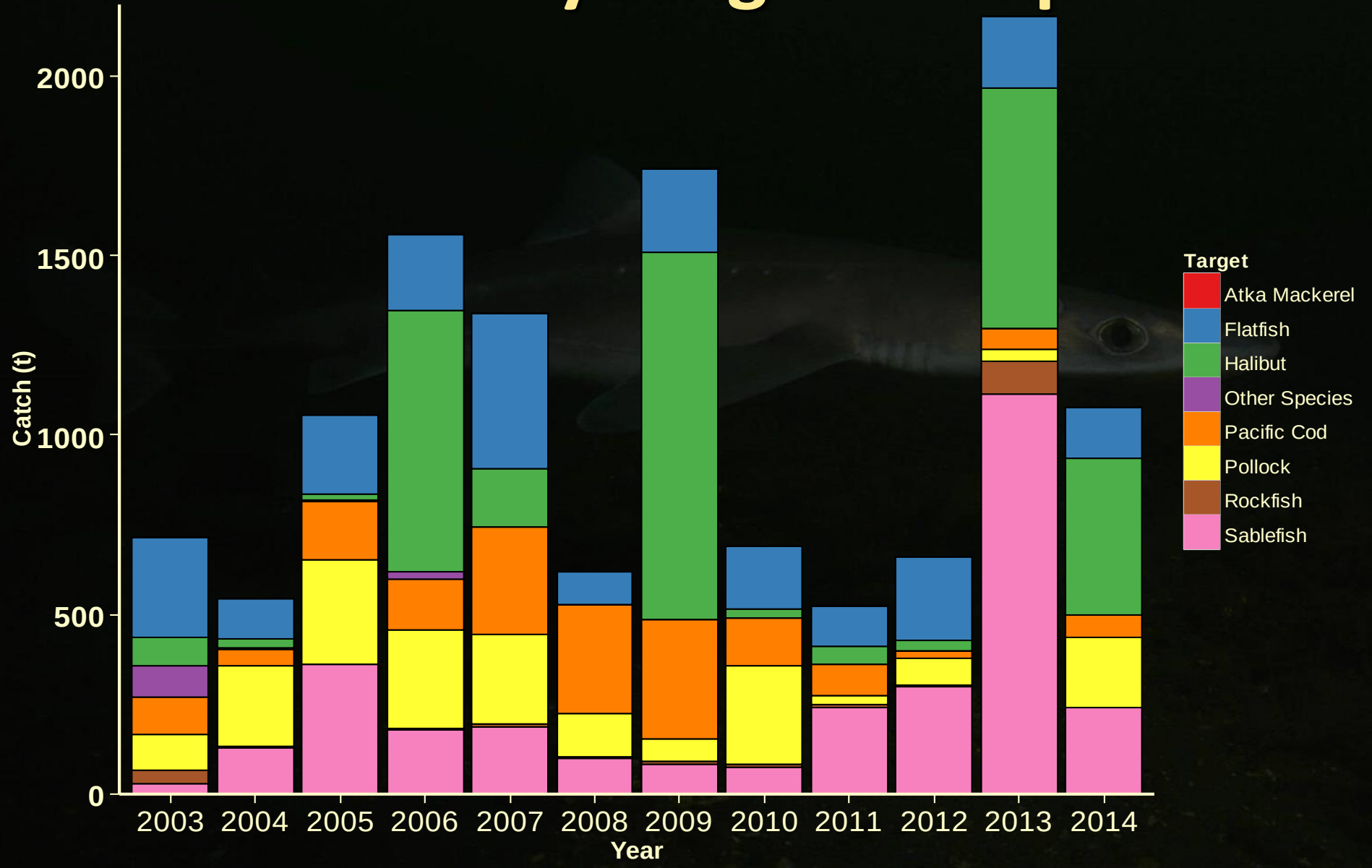
Shark Complex 2014 and 2015 recommendations

	Spiny Dogfish	Pacific Sleeper Shark	Salmon Shark	Other/Unid Sharks	Total Sharks
Tier	6*	6	6	6	
M	0.097	UNK	0.18	UNK	
Biomass 3 YR AVG	76,452	NA	NA	NA	
Average Catch	NA	312	71	188	
ABC	5,562	234	53	141	**5,989**
OFL	7,416	312	71	188	**7,986**

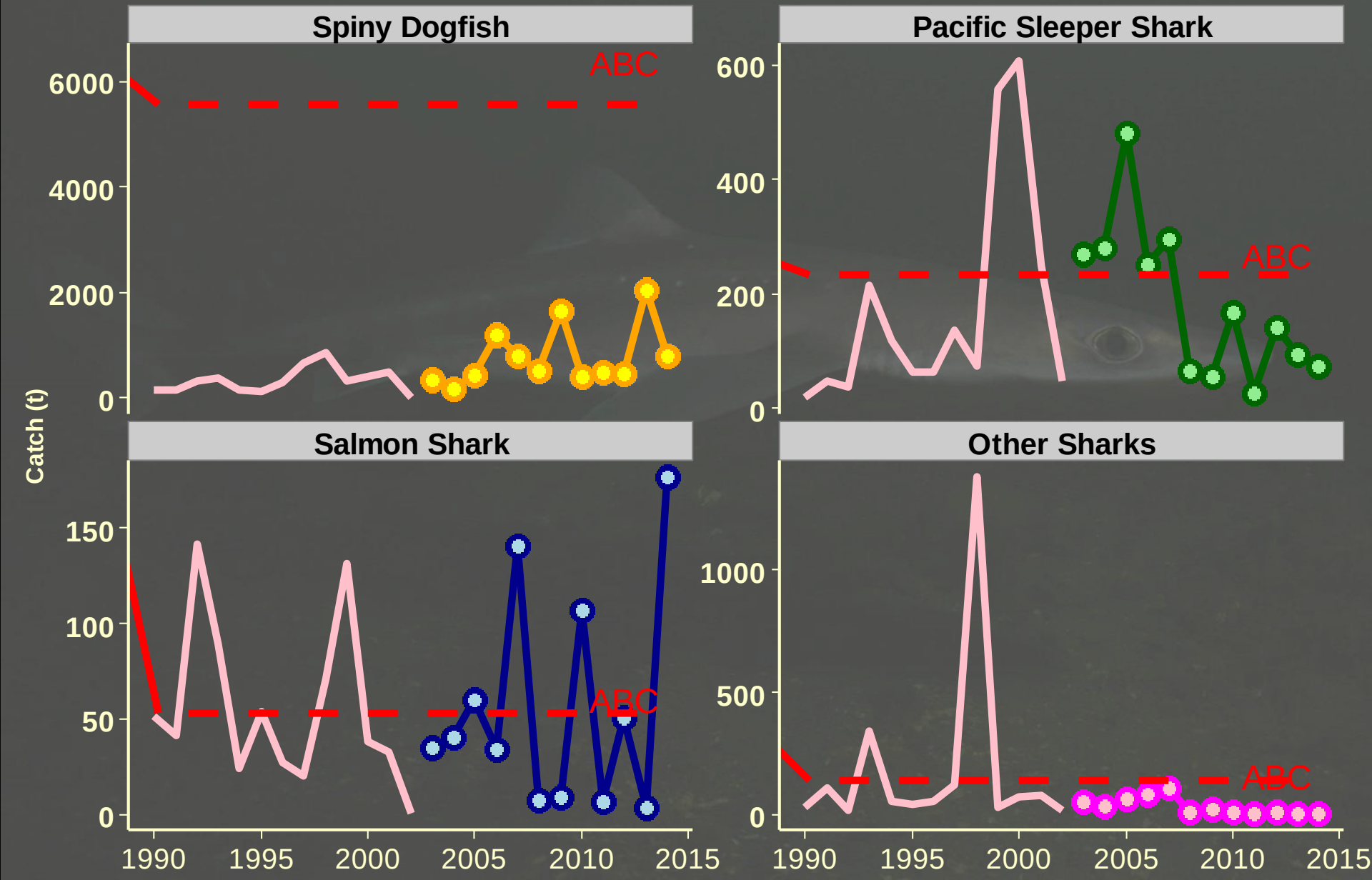
GOA Shark Complex Catch



Catch by Target Group



Species Specific Catch



Responses to SSC Comments

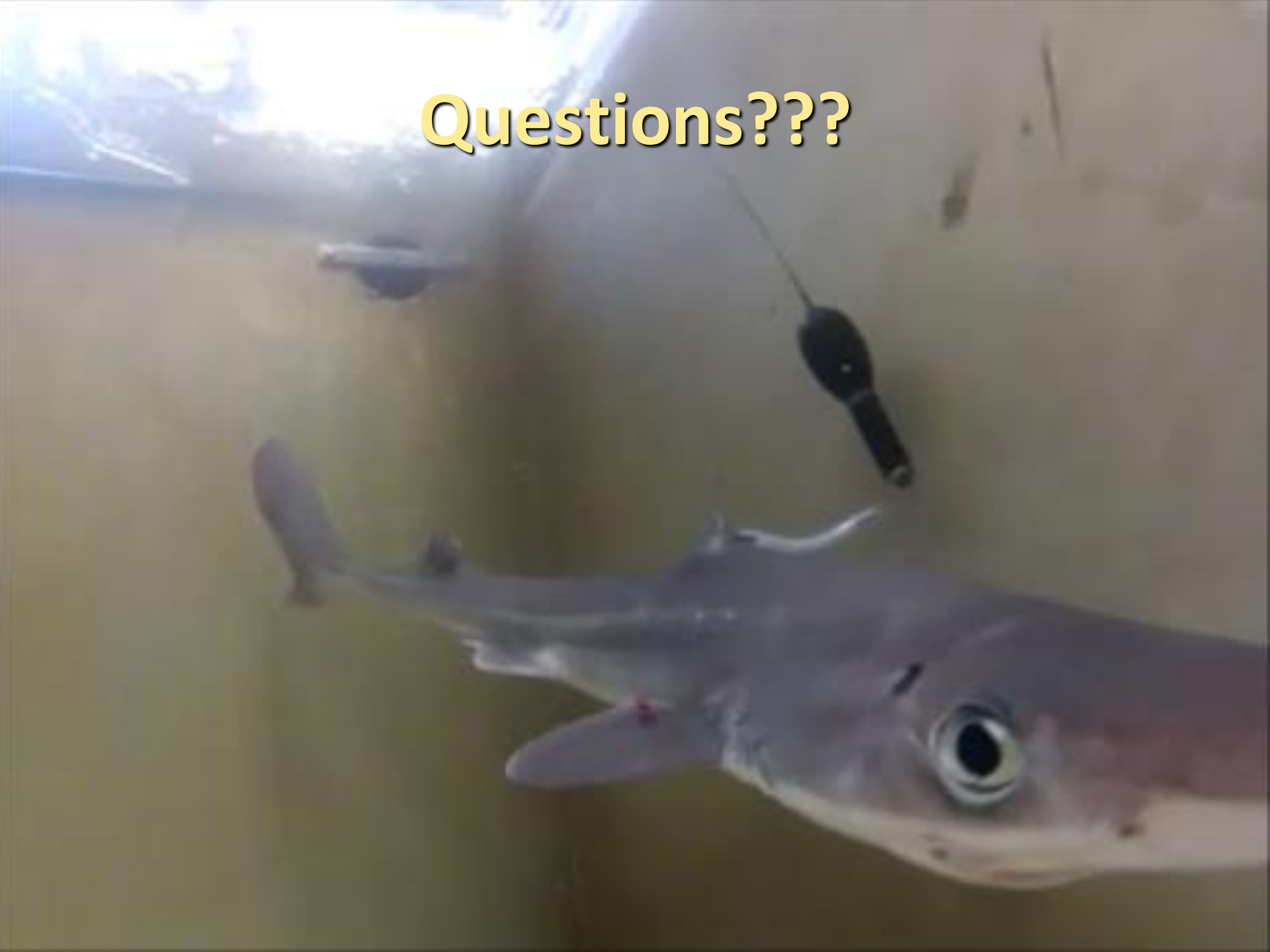
- Major comments (paraphrased):
  - Investigate methods for calculating biomass to move spiny dogfish to Tier 5
    - *We are working on this for the next full assessment*
  - Consider issues with catch in areas 649/659 and OBS restructuring
    - *Discussed in appendix document presented in Sept. PT recommended including a table of 649/659 catch and inside waters survey info. In next full assessment.*

Responses to PT Comments

- Major comments (paraphrased):
  - Compare HFICE catch estimates to new catch time series
    - *HFICE is not recommended due to issues with potential for double counting*
    - *A comparison between the two can be conducted, but more data is necessary, not available for a few years.*
  - Look into feasibility of using discard mortality
    - *Literature review is underway, but little information exists for discard mortality of sharks on LL gear*

Research and Future Directions

- Spiny Dogfish
  - Biomass model, Ageing, Migration, Catchability
- Pacific Sleeper Shark
  - Ageing, Maturity, genetics


Questions???