

D2 - Small Sablefish Discarding



Source: https://www.seafoods.com/

Small Sablefish Discarding

D-2 Discussion Paper

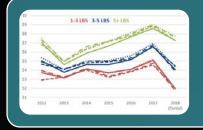
Elements of April 2018 Motion



DMRs



Trade-Offs

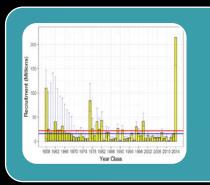


Value by Size



Observer Sampling

Structure of the Document



Biological



DMRs



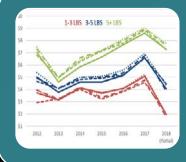
Trade-Offs



Value by Size



Observer Sampling



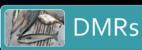
Econ / Operational



Management

Structure of the Document

Summary Points







Value by Size



Observer Sampling

Action may be warranted by further very strong year classes

No compelling biological reason to prohibit/require discarding

Many years from having scientific basis for sablefish DMRs

Econ/Operational benefits will vary by area and operation

Discards may need to accrue to IFQ

Observer-based DMRs a significant new program

Summary Points

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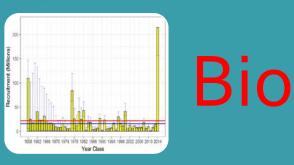
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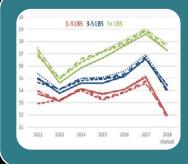
Trade-Offs



Value by Size



Observer Sampling

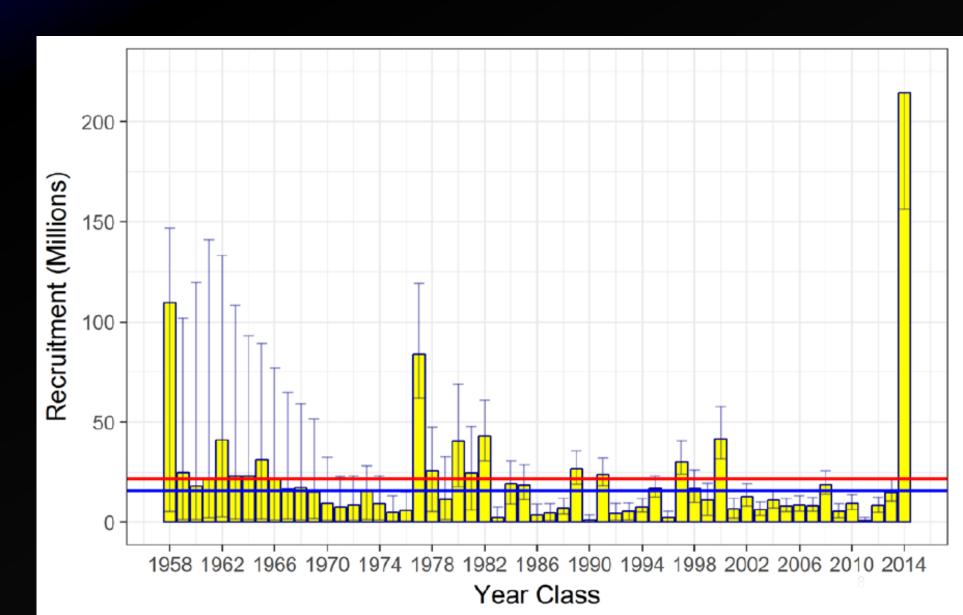


Econ / Operational

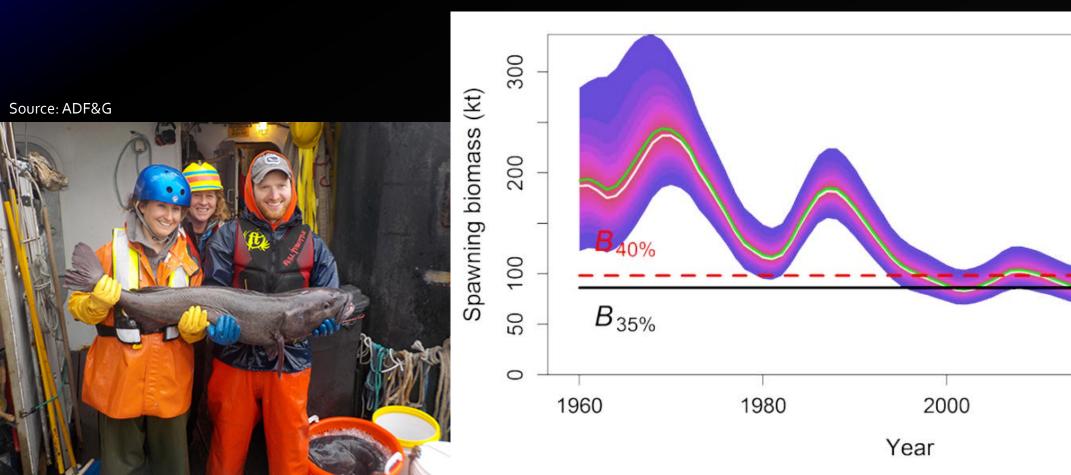


Management

2014 Year Class

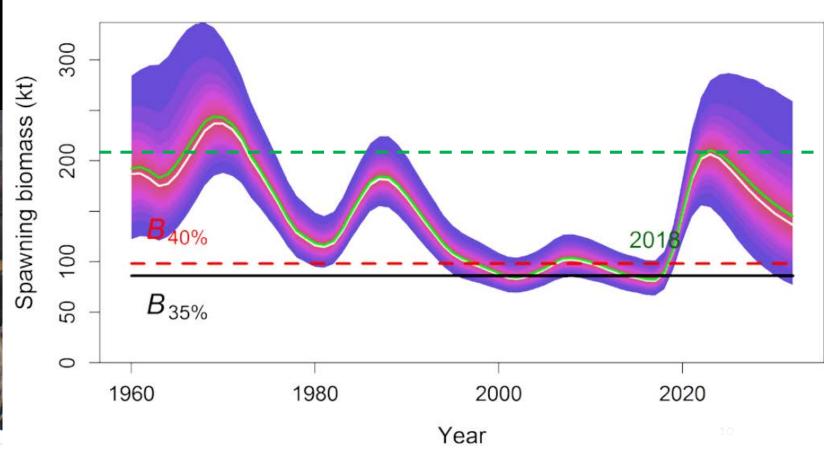


Contribution to Sablefish Biomass



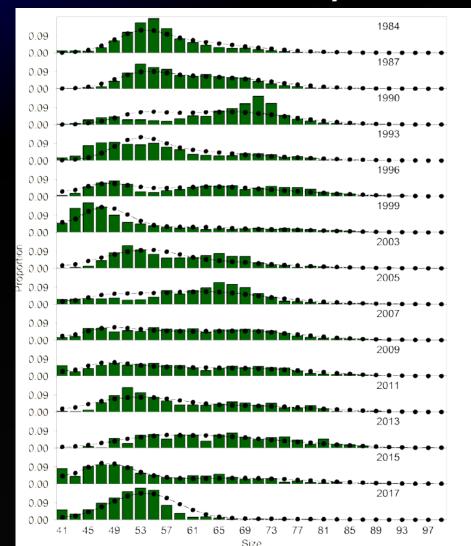
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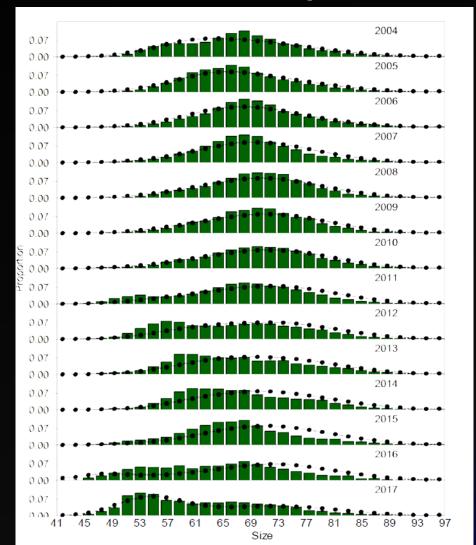


Arrival in Survey

Trawl Survey

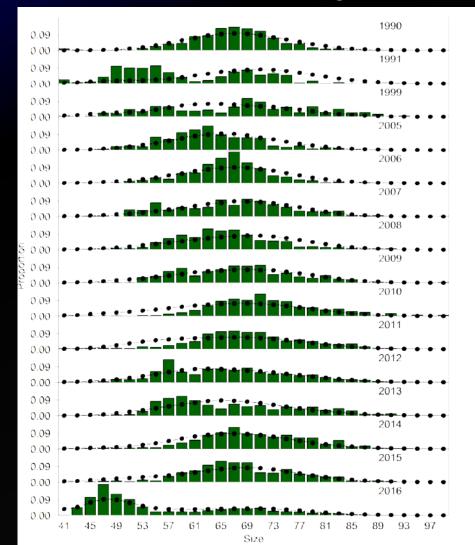


LL Survey

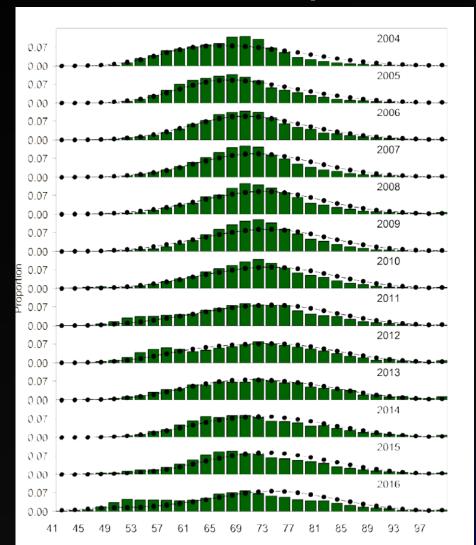


Arrival in Fishery

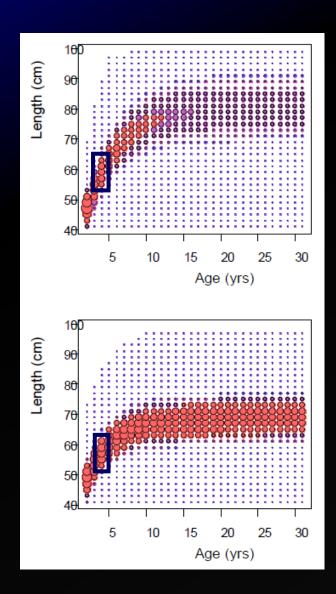
Trawl Fishery

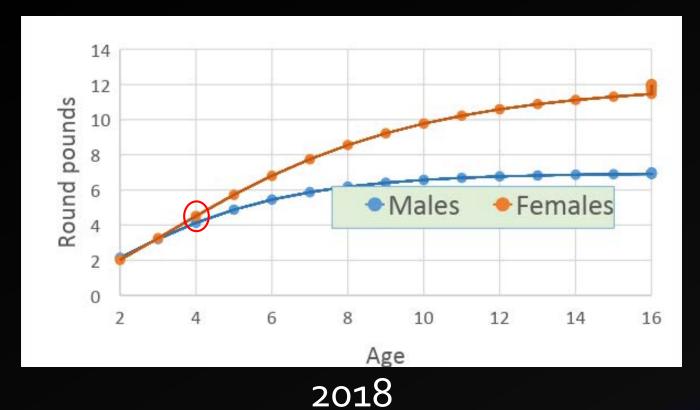


LL Fishery



Current Size of 2014 Year Class

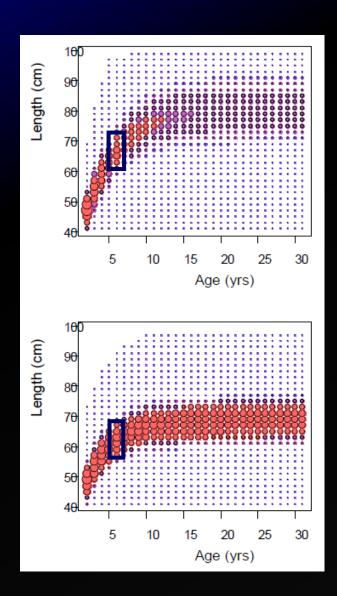


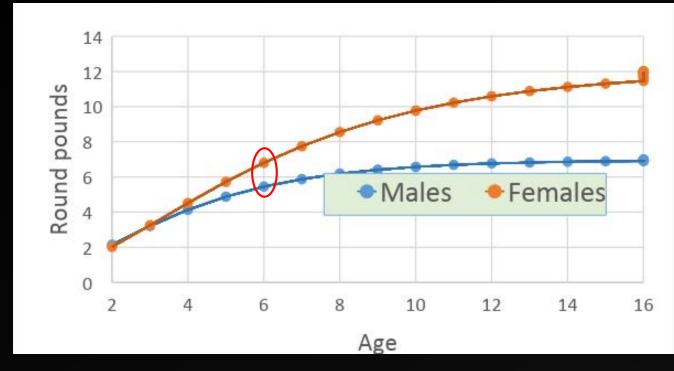


• 56-62 cm (22-24 in)

• 1.8-2.3 kg (4-5 lbs)

Future Size of 2014 Year Class

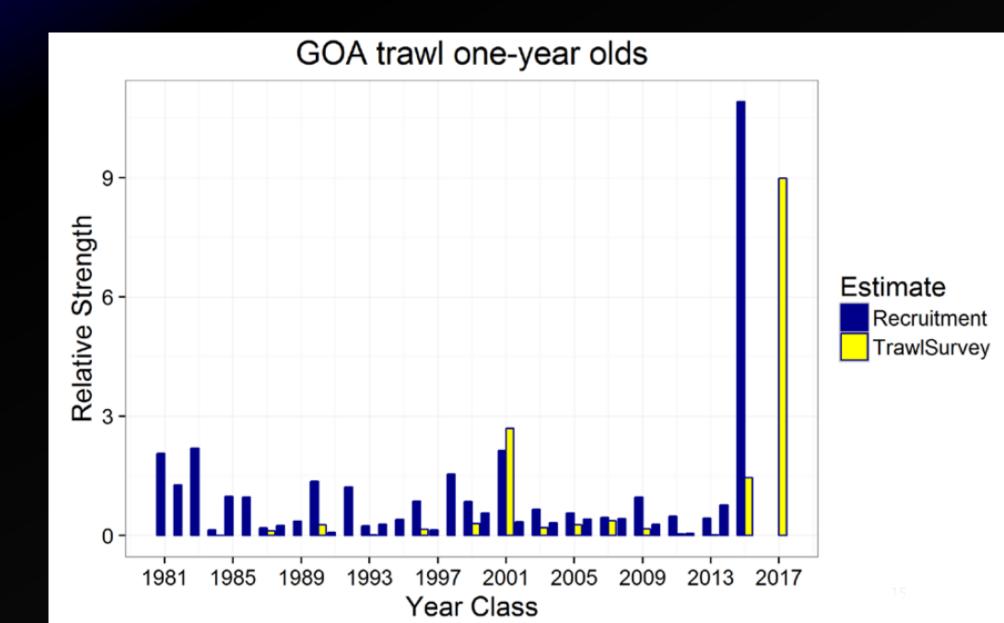




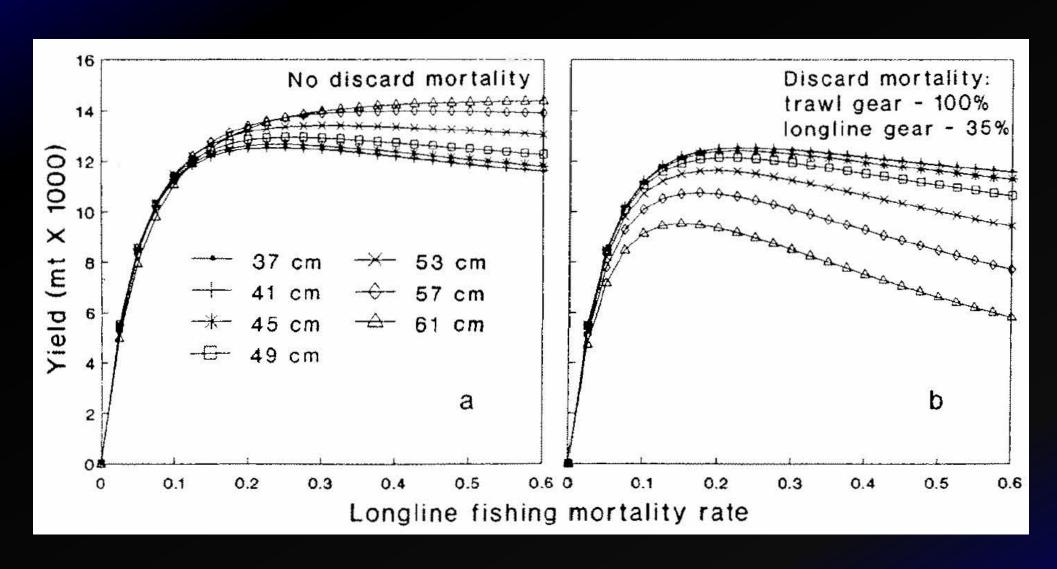
2020

- 58-72 cm (23-28 in)
- 2.36-3.2 kg (5-7 lbs)

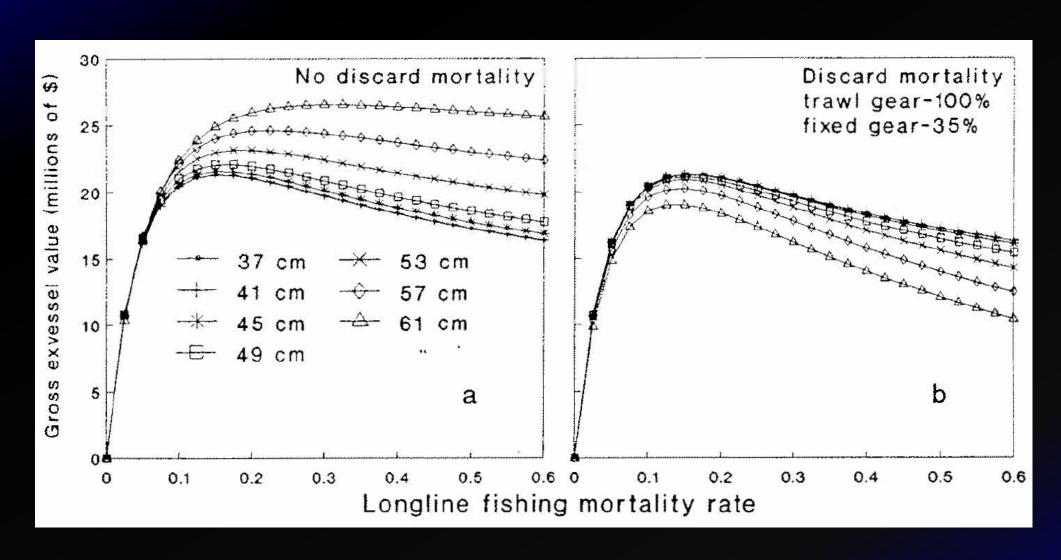
More to come...?



Yield per Recruit Analysis



Yield per Recruit Analysis



Discard Mortality Rate Issues

Data needed

Size

Time on deck

Release condition

Water temperature

Discard Mortality Rate Issues

- PFMC (mix of historically based and analogous)
 - Trawl= 50%;
 - HAL= 20% offshore, 7% nearshore

- DFO (no rationale, incentive for trawl)
 - HAL= 15%
 - Pot = 9%,
 - Trawl= 10% first 2 hrs fished, 10% per additional hour
- ADF&G (new methods, analogous)
 - HAL sablefish = 16%
 - HAL halibut = 25%

Min Size Regs

- PFMC (incentive for deeper fishing)
 - 56 cm (22 in)
- DFO (historic since 1945)
 - approximately 55 cm (22 in)
- ADF&G
 - none

Summary Points

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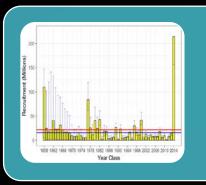
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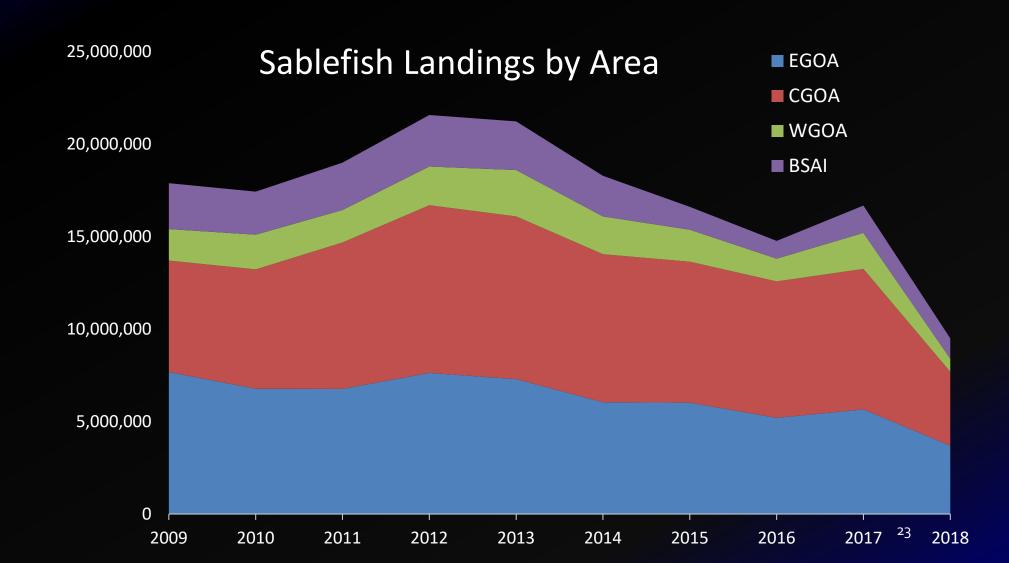


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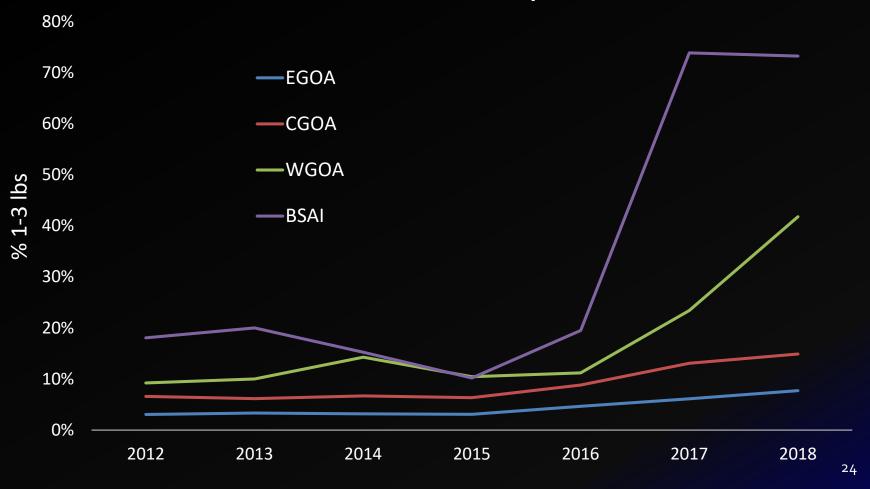
Management

Spatial Considerations

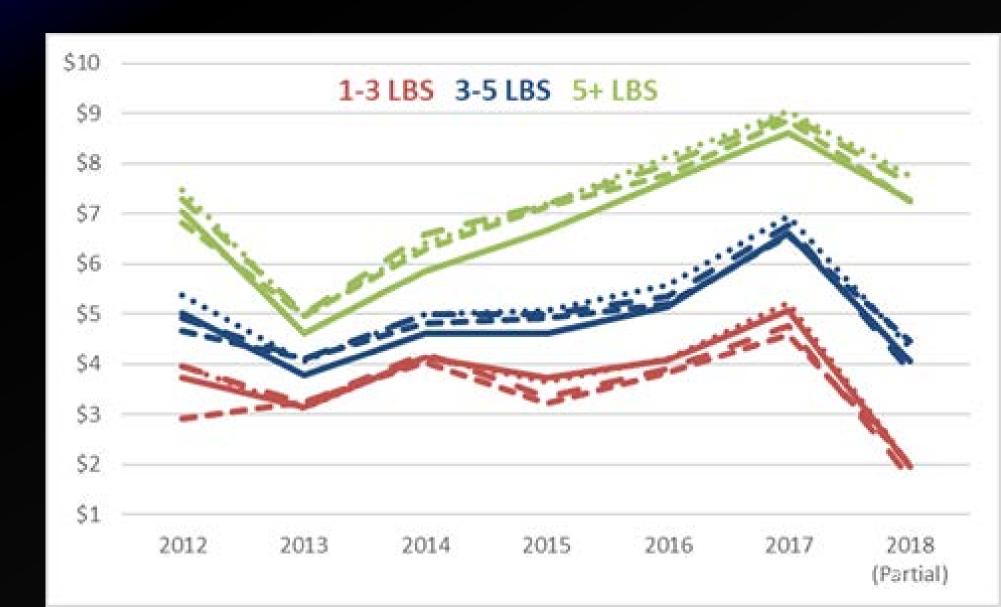


Spatial Considerations





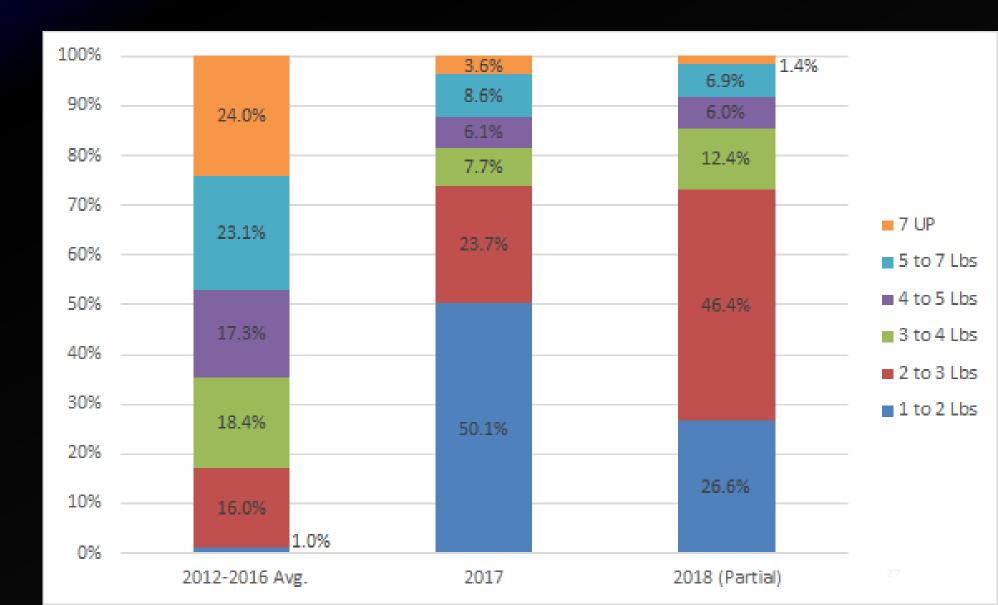
Value by Size



Value by Size



Value by Size



Trade Offs

Flexibility
Need to
fill hold
High
grading

Relieve negative impact of small fish Varies by size of IFQ DMRs may be low Whale depredation not accounted for in DMRs

Higher
Price/lb
Greater
expenses
(time,
labor, bait)

Profits greater to processors for larger fish

Longer trips could affect flesh quality

Processors could avoid negative returns

Enforcement & Observer Issues

Discard Allowance

Minimum Size

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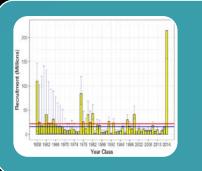
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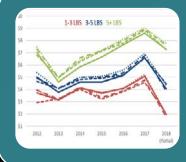
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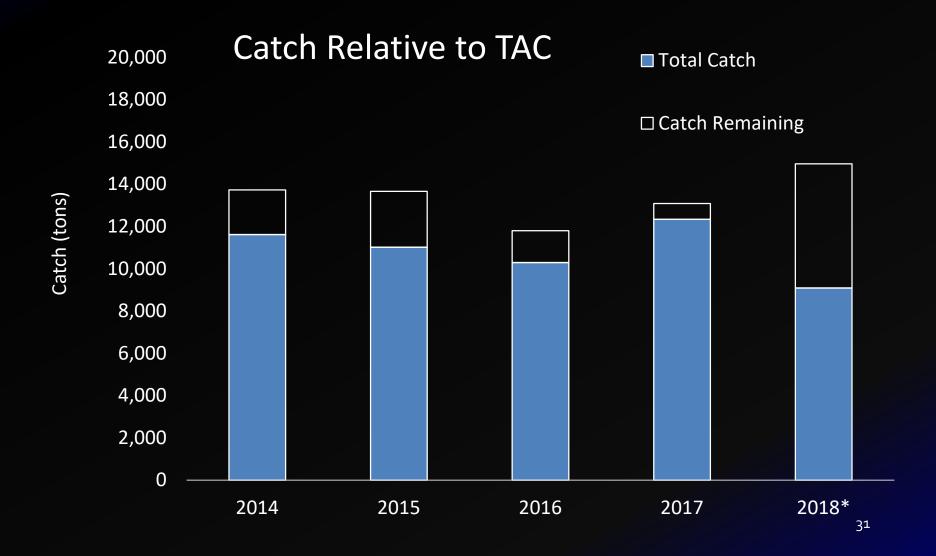
Observer Sampling



Econ / Operational



Achieving Sablefish TAC



Observer Program Issues

Data quality and potential bias of discard estimates

Vessels with Electronic Monitoring (EM) systems

Data collection methods and observer protocols

Discard Mortality Rate Issues

Data needed

- Size
- Time on deck
- Release condition
- Water temperature

Enforcement Issues

- Release Option
 - Careful release requirement
 - Easiest
 - Necessary under either
- Minimum Size
 - Collecting discarded fish
 - Compliance



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Boat by Dan Hull

Photo by Sarah Marrinan