Alaska Fisheries Science Center FY20 and FY21 Surveys

Robert Foy AFSC Research and Science Director

Presentation to North Pacific Fisheries Management Council SSC

September 29, 2020



NPFMC letter to AFSC

- Concern and consequences with 2020 survey cancellations
- <u>Plan for 2021 surveys</u>...including the northern Bering Sea
- Support for technical assistance from SSC to prioritize
- Funding scenario for 2021 surveys
- Cautious support for UxS (uncrewed systems) and modeling
- Support for cooperative research opportunities with industry
- Update in October and December



AFSC surveys

- Evaluating impacts of missing 2020 survey
 - CPT and GPT: Retrospective analyses, model predictions, sensitivity analyses
 - Mitigation and comms plan
- Survey prioritization (2021 and beyond)
- Plan for 2021 survey
- Funding scenario for 2021 surveys



Mitigation for data loss in 2020

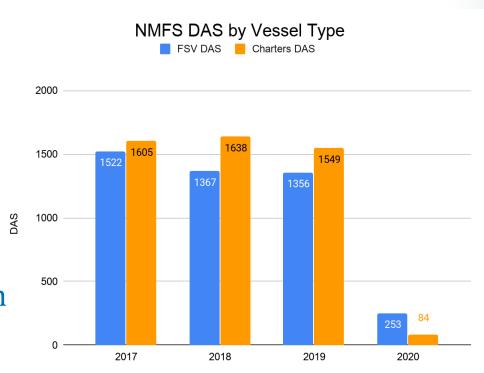
- Longline survey and nearshore research
- Fishery dependent, age composition data
- Acoustic data collection via saildrone to augment pollock assessment.
- Oscar Dyson support acoustic and ecosystem moorings retrieval.
- Ecosystem data collections from communities or vessels of opportunity





AFSC communication plan for 2020 surveys

- March 16: AFSC/NMFS initial survey impact assessment & initial cancellations
- March 24: AFSC Stock Assessment Scenario Working Group Formed
- April:
 - Council meeting cancelled due to Covid-19
 - AFSC Council staff and chair initial discussion on survey comms
- May 13: Council memo on 2020 survey delays
- June 8: AFSC presentation on 2020 survey status
- July 14: Council memo on 2020-21 surveys





AFSC communication plan for 2021-22 surveys

- October 2020: update on scenario planning
- December 2020: update on update...semi-final plan with criteria for 2021 surveys
- February or April 2021: AFSC State of the Center



AFSC survey priorities informed by:

- SSC-subgroup (2018)
 - 1) eastern Bering Sea shelf; 2) Gulf of Alaska; 3) Aleutian Islands; 4) northern Bering Sea; and 5) Bering Sea slope
- International Council for Exploration of the Sea (ICES) WK on Unavoidable Survey Effort Reduction (e.g. Barnett et al.→two vs three vessels in GOA)
- Bias and uncertainty analyses (e.g. Meaghan Bryan et al. →loss of survey impact)
- SSC-subgroup (2020)
 - northern Bering Sea survey is combined with the eastern Bering Sea Shelf survey
 - Include Norton Sound
 - BS slope and GOA deep **important**! But prioritize NBS

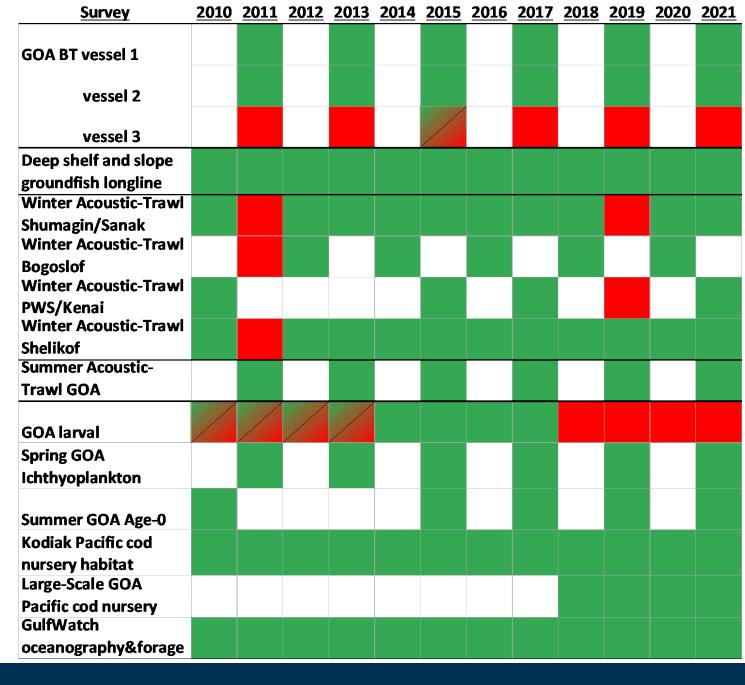


AFSC planning for 2021 surveys

- Surveys during COVID-19 pandemic: unprecedented consideration to ensure the health and safety of NOAA Fisheries employees, vessel employees, and communities while minimizing impacts to industry.
- Collaborating with NOAA Office of Marine and Aviation Operations (OMAO)
- Planning scenarios **IF** needed
 - Full complement based on current staffing capacity (prioritized core areas)
 - Partial survey coverage
 - Advanced tech and analysis tools/ cooperative research



Gulf of Alaska



- Limited coverage of GOA deep stations in favor of NBS
- Biennial GOA



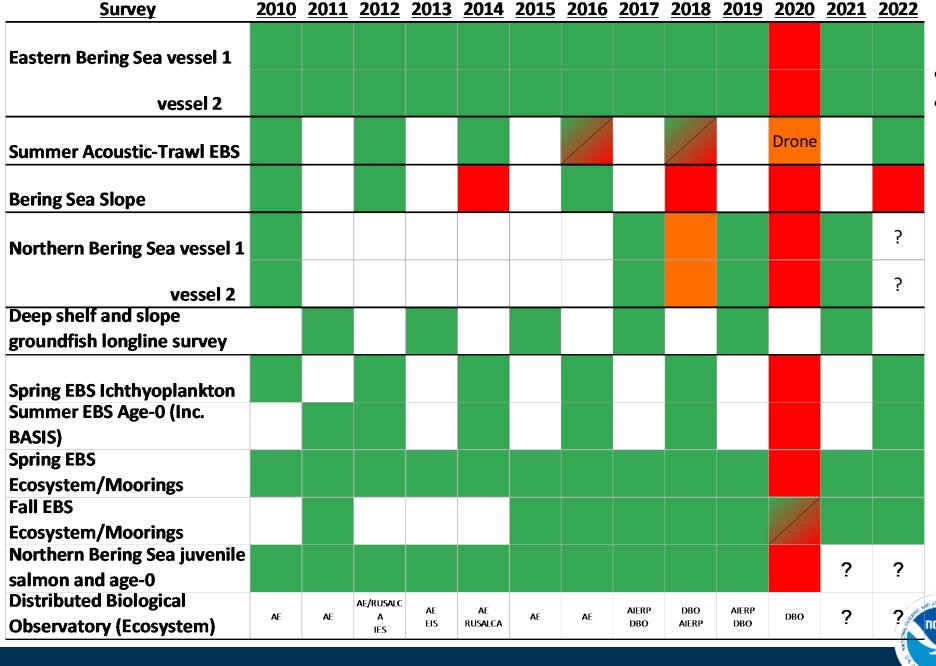
Aleutian Islands

<u>Survey</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>
Aleutian Island vessel 1													
Aleutian Island vessel 2													
Deep shelf and slope													
groundfish longline													

Biennial Al



Bering Sea



• NBS in 2021

AFSC funding for FY21 surveys

- FY20 costs
- FY21 charter costs increasing and Oscar Dyson days at sea decreasing
 - OMAO protocols: 45DAS/16 days shore
- Dependent on FY21 fiscal process (pre-funded contracts, carry-over funds, base budget)
- New FY20 congressionally directed funds (\$1.1M) to support 2021 surveys as originally planned.



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Take home messages to NPFMC

- AFSC looking forward to getting back to data collection in 2021!
- AFSC will continue to communicate with stakeholders and communities as decisions are made
- AFSC will continue to identify methods to mitigate data losses

Thank You!

