

Alaska Fisheries Science Center - updates on surveys and climate research

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Presentation to North Pacific Fisheries Management Council
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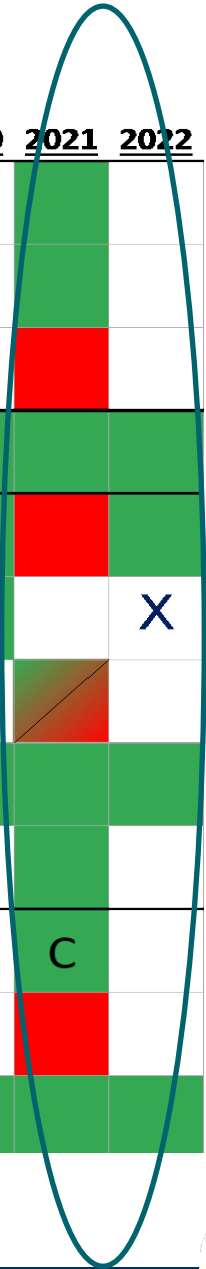
Alaska Fisheries Science Center

- 2021&22 Survey Update
- AFSC Climate Informed Science for Management
 - Climate Fisheries Initiative (Anne Hollowed)
 - Regional Action Plans (Anne Hollowed, Martin Dorn, Jim Thorsen)
 - Alaska Climate Integrated Modeling Project (Kirstin Holsman)
(agenda item D2)



Gulf of Alaska fish & ecosystem surveys

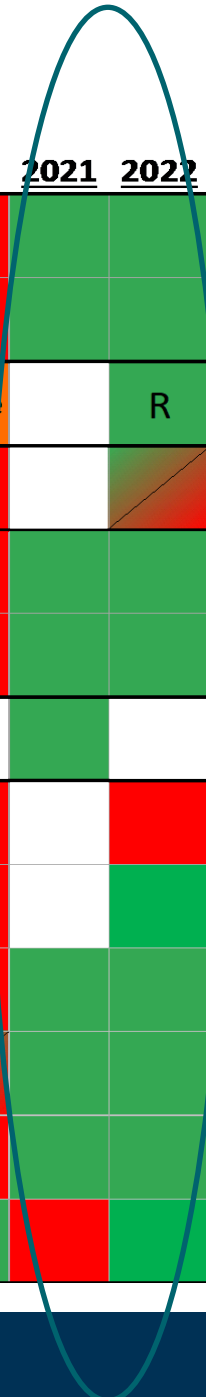
Survey	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
GOA BT vessel 1		Green		Green		Green		Green		Green		Green	
vessel 2		Green		Green		Green		Green		Green		Green	
vessel 3		Red		Red		Green		Red		Red		Red	
Deep shelf and slope groundfish longline	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
Winter Acoustic-Trawl Shumagin/Sanak	Green	Red	Green	Green	Green	Green	Green	Green	Green	Red	Green	Red	Green
Winter Acoustic-Trawl Bogoslof		Red	Green		Green		Green		Green		Green		X
Winter Acoustic-Trawl PWS/Kenai	Green					Green		Green		Red		Green	
Winter Acoustic-Trawl Shelikof	Green	Red	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
Summer Acoustic-Trawl GOA		Green		Green		Green		Green		Green		Green	
Spring GOA Ichthyoplankton		Green		Green		Green		Green		Green		C	
Summer GOA Age-0	Green					Green		Green		Green		Red	
Kodiak Pacific cod nursery habitat	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green



**NOAA
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Bering Sea fish & ecosystem surveys

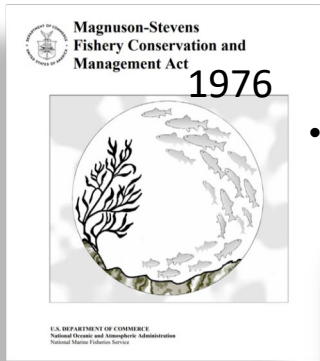
Survey	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Eastern Bering Sea vessel 1	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Red	Green	Green
vessel 2	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Red	Green	Green
Summer Acoustic-Trawl EBS	Green	White	Green	White	Green	White	Diagonal	White	Diagonal	White	Orange (Drone)	White	Green (R)
Bering Sea Slope	Green	White	Green	White	Red	White	Green	White	Red	White	Red	White	Diagonal
Northern Bering Sea vessel 1	Green	White	White	White	White	White	White	Green	Diagonal	Green	Red	Green	Green
vessel 2	Green	White	White	White	White	White	White	Green	Diagonal	Green	Red	Green	Green
Deep shelf/slope groundfish longline	White	Green	White	Green	White	Green	White	Green	White	Green	White	Green	White
Spring EBS Ichthyoplankton	Green	White	Green	White	Green	White	Green	White	Green	White	Red	White	Red
Summer EBS Age-0 (Inc. BASIS)	White	Green	Green	White	Green	White	Green	White	Green	White	Red	White	Green
Spring EBS Ecosystem/Moorings	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Red	Green	Green
Fall EBS Ecosystem/Moorings	White	Green	White	White	White	Green	Green	Green	Green	Green	Diagonal	Green	Green
Northern Bering Sea juvenile fish	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Red	Green	Green
Fall NBS ECO-Foci/DBO	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Red	Green



Aleutian Islands fish surveys

<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	█		█		█		█		█		█		█

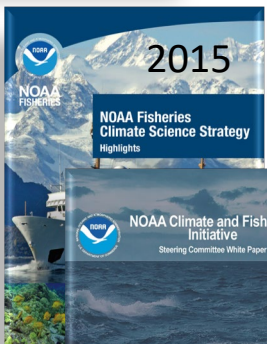
Alaska - Climate Informed Science for Management



- Ecosystem Based Management Policy



- FEP
- ESR
- ESP



- RAPs
- FEP-CCTF
- ACLIM
- CFI

