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NMFS report: Coastal Pelagic Species Update



Photo by Brad Erisman



Photo by NOAA Fisheries

Dale Sweetnam
Southwest Fisheries Science Center



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Presentation Outline

- Survey Updates
- CPS Assessment Schedule
- Upcoming CPS Meetings



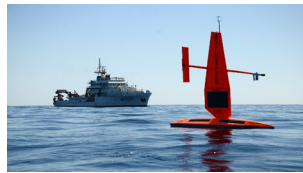
Photo by NOAA Fisheries



Summer 2021 CCE Survey

- FSV *Reuben Lasker*
- 86 Days at Sea
- 4 Legs, 3.5 Months
- Legs I-III: VI-San Diego
- FV *Lisa Marie*
off WA, OR, & N. CA
- FV *Long Beach Carnage* off
C. and S. CA
- 5 Saildrones
in anchovy areas
- Leg IV: to Pt. Eugenia
Southern Stock Sardine
Mexico Collaboration

LASKER



LISA MARIE



LB CARNAGE



FRASER/
CARRANZA

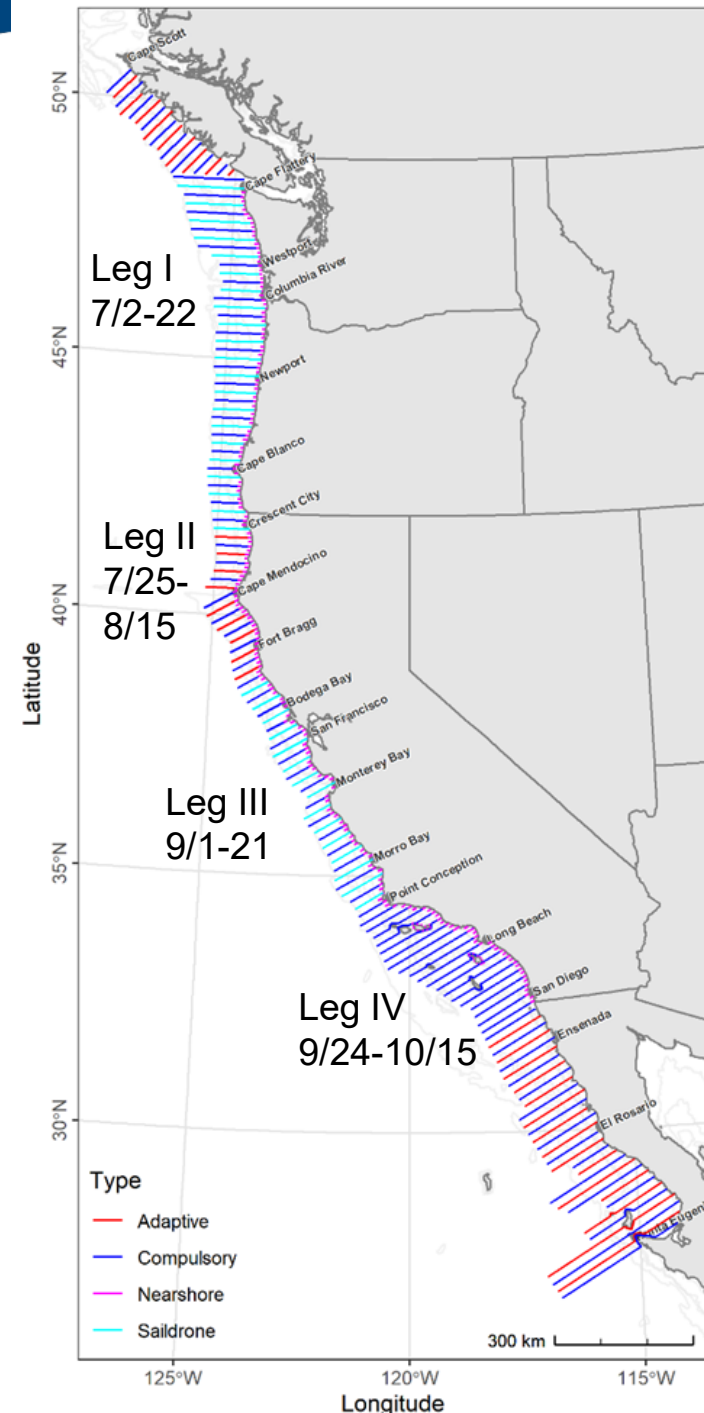


W COAST

OR & WA

So CA Bight

Baja CA

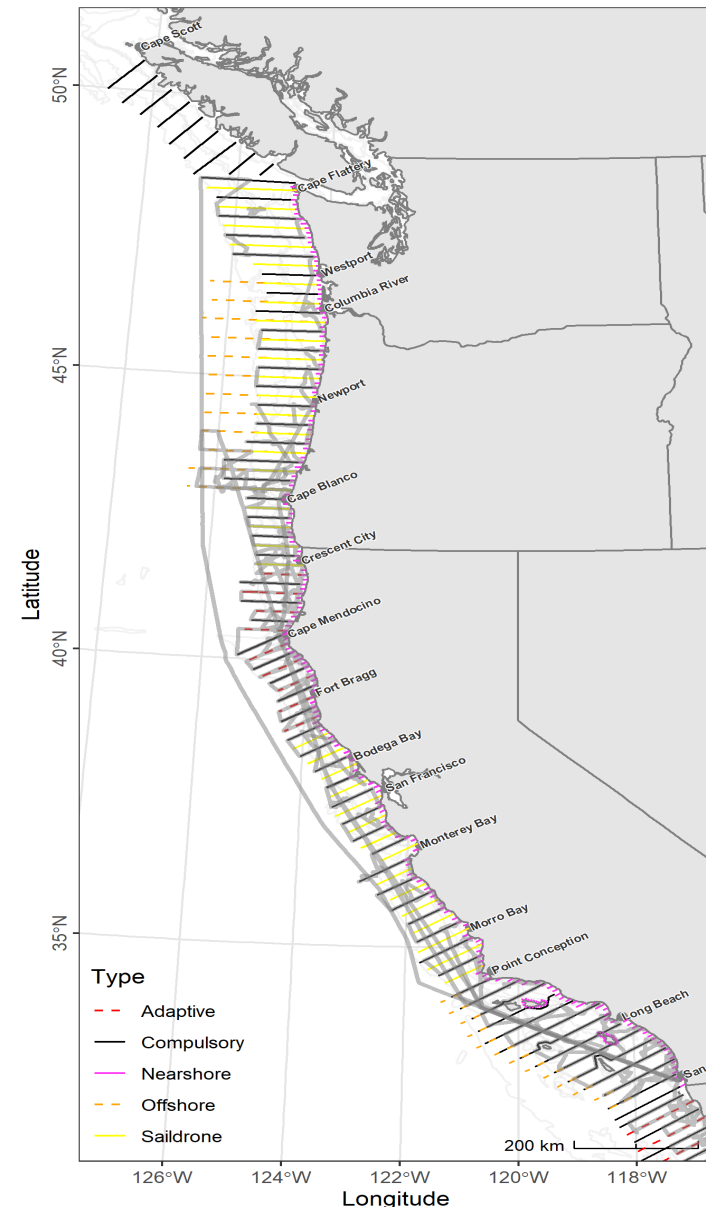


2021 Summer CCE Survey

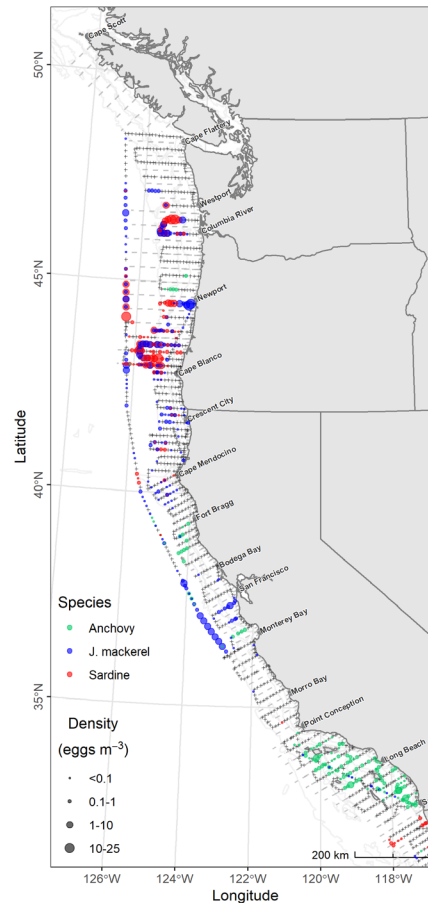


Photos by Brad Erisman

- Parallel systematic design
- The core area spanned from Cape Flattery to mid-northern Baja California (to approximately El Rosario).
- 107 east-west transects totaling 5,804 nmi, and conducted 124 Nordic trawls.
- The nearshore spanned from Cape Flattery to San Diego, including around Santa Cruz and Santa Catalina Islands, and was surveyed by Long Beach Carnage and Lisa Marie. A total of 254 east-west transects and 58 purse seine sets were completed.
- Seven Mexican researchers participated on three survey legs.

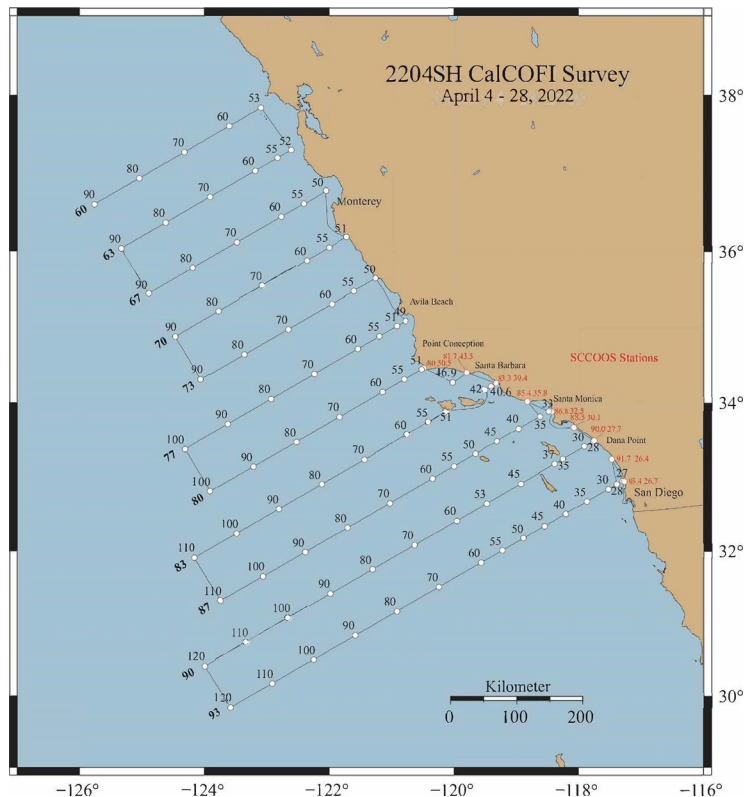


- Anchovy dominated the core region in the south.
- Jack mackerel dominated the core region in the north.
- Sardine had two focuses of distribution: WA/OR and Southern CA/Baja.
- Sardine and Pacific mackerel comprise a small fraction of the CPS.
- Pyrosomes were a problem in some areas.
- Only samples north of the US border are presented here.
- Technical reports for survey not ready yet.





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Survey updates

- **Winter CalCOFI**
 - Cancelled due to Covid-19 issues.
- **Spring CalCOFI**
 - Scheduled for April 6-28, 2022 aboard FSV Shimada.
 - Total of 104 stations from San Diego to San Francisco, out 350 miles.
- **2022 Spring CPS**
 - No survey planned due to Continuing Resolution and delayed Federal budget.
- **Summer CalCOFI**
 - Scheduled for July 10-25, 2022, aboard RV Bold Horizon.

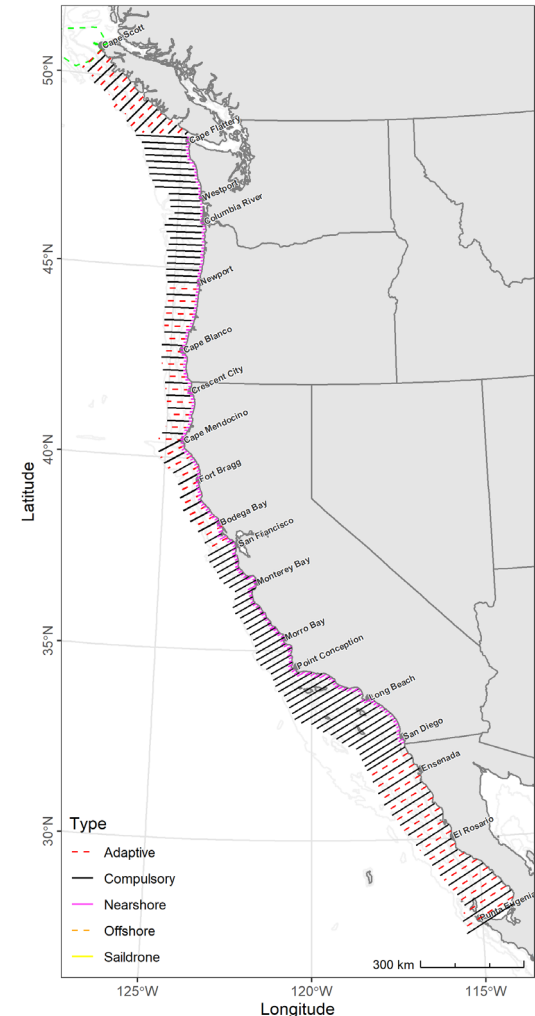
Survey updates



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• 2022 California Current Ecosystem Survey

- FSV Reuben Lasker
- Current plan is for 76 Days at Sea, 6/27 to 9/23/2022, 4 legs.
- Northern Vancouver Island to Pt Eugenia Mexico.
- No Saildones in 2022 to fill-in adaptive sampling areas.
- Nearshore sampling of entire US coast by Long Beach Carnage and Lisa Marie.
- Sampling in Mexican waters from Border to Pt. Eugenia planned, permits have been submitted.
- Unclear if the Mexican RV Fraser/Carranza will be able to continue south to cover the rest of Baja California.

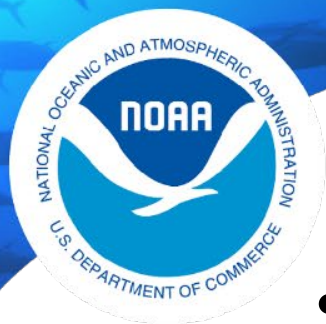




2022 West Coast Pelagic Surveys Re-envisioning

By 2025 and beyond, NMFS is attempting to combine NWFSC and SWFSC west coast surveys of hake and coastal pelagic species.

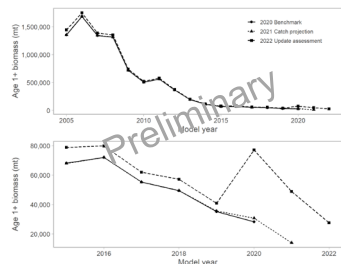
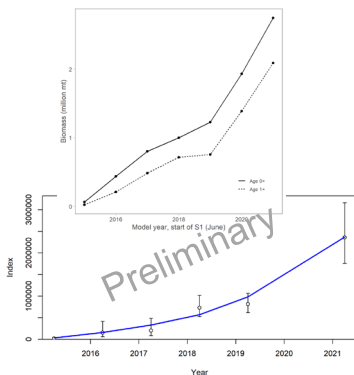
- An “integrated survey” will support the NMFS mission of optimizing the investment of federal funds by improving the data collected for stock assessments, management strategy evaluations, and ecosystem research and modeling, while advancing NOAA strategic priorities for Uncrewed Systems (UxS), Strategic Application of Transformational Tools (‘omics, e.g. eDNA) and the development and implementation of Artificial Intelligence and Machine Learning tools (AI/ML).
- Building upon joint survey efforts in the past and collaborating on innovative technologies and survey approaches to conduct an integrated survey in 2025. We have identified project managers for 2022 and will conduct a Stakeholder Science-Management Workshop in Fall 2022.



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CPS assessment schedule

- **Central Subpopulation Northern Anchovy:**
STAR panel held Dec 7-10, 2021
Will be presented to Council at June mtg
- **Northern Subpopulation of Pacific Sardine:**
Update assessment held March 2, 2022
This Council mtg, Agenda Item E.3
Next Benchmark February 2023 (?)
- **Pacific Mackerel Benchmark Assessment:**
May 2-4, 2023 SWFSC



Upcoming CPS Meetings



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- **Trinational Sardine and Small Pelagics Forum**
 - May 2-3, 2022, VIRTUAL MEETING
 - Registration deadline April 11th!
 - Contact Stephanie.Flores@noaa.gov for info!
- **Pacific Sardine Stock Structure Workshop**
 - Dates TBD (late June or Fall 2022)
 - Hopefully in Person
- **45th Annual Larval Fish Conference & 13th International Larval Biology Symposium**
 - Joint AFS Early Life History and Larval Fish Conference meeting
 - August 29 – September 1, 2022
 - San Diego, California (SIO)

Questions?

