

AFS Symposium Information:
**Observer and Observer Program Contributions to Fishery Data Collection,
Monitoring, and Safety**

Symposium #: 3488

Abbreviated Title for Schedule at a Glance: Observer Contributions

Submitter's email: deb.lambert@noaa.gov

Format: oral presentations

Sponsors: AFS Marine Fisheries Section

Description of Symposium:

Government agencies deploy fishery observers to collect data from fishing vessels. These data support conservation and management of fisheries, protected species, and ecosystems. The objectives of this symposium are to: (1) highlight the contributions of observers to fishery and protected species data collection and safety; (2) describe innovations in electronic technology and data collection; and (3) promote the exchange of ideas on best practices for observer programs. This symposium will be of value to AFS attendees because it will illustrate how fisheries data collected at sea are used. This symposium especially will be of interest to attendees who have worked as fishery observers early in their careers or use observer data for research or management. This symposium will include poster presentations in addition to oral talks.

This symposium will include four themes:

1. **Innovations in data collection:** Observers play a key role in collecting data used for critical fishery management activities. Talks will cover the use of observer data to estimate mortality and fishing effort in West Coast fisheries, the application of GIS to improve observer data quality, and efforts to collect data on difficult-to-observe vessels.
2. **Protected Species:** Observers provide some of the best data available for estimating the health of protected species populations. These talks will cover observer data collection as it relates to sturgeon, seabirds, and marine mammals.
3. **Electronic Technologies:** Electronic technologies play an increasing role in observer programs, but challenges remain to widespread implementation. Talks will cover the use of technology to ensure faster observer data transmission and provide electronic technology case studies from the Northeast, Southeast, West Coast, and Pacific Islands.
4. **Safety:** The safety of observers and commercial fishermen is a high priority. Talks planned for this part of the symposium will describe safety training and the roles observers have played in at-sea emergencies.

Organizers

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Sequence	Theme	Title of Talk or Poster	Type	Authors	Date	Time	Moderator
1	Intro	The Human Factor in Observer Data Collection	Oral	Benjamin Riedesel, National Marine Fisheries Service - AFSC	Part 1, August 18th	1:20 PM	Lee Benaka
2	Intro	The U.S. National Observer Program and Regional Electronic Technology Implementation Plans for 2016 - 2018	Oral	Jane DiCosimo, NMFS HQ	Part 1, August 18th	1:40 PM	Lee Benaka
3	Intro	Overview of the U.S. Observer Programs National Safety Training Standards	Oral	John LaFargue and Dennis Hansford, NOAA National Marine Fisheries Service	Part 1, August 18th	2:00 PM	Lee Benaka
4	Safety	Observer Training Saved My Life and Four Others, Will It Save Yours?	Oral	Kenneth Keene, NOAA and Erika Webb , NMFS	Part 1, August 18th	2:20 PM	Lee Benaka
5	Safety	It's Never Going to Happen to Me...until It Does: A Summary of Safety Related Incidents Encountered By Observers in the Northeast Fisheries Observer Program	Oral	Lauren Carroll and Mike Tork, NOAA Northeast Fisheries Science Center	Part 1, August 18th	2:40 PM	Lee Benaka
6	Safety	Safety in Numbers: A Two-Year Analysis of Safety Incidents in the North Pacific Observer Program. Can Numbers be Used to Enhance Observer Safety?	Oral	Alex Perry , NOAA Fisheries, Fisheries Monitoring and Analysis Division, Alaska Fisheries Science Center	Part 1, August 18th	3:20 PM	Lee Benaka
7	Safety	Wheel Watch (Lookout) Requirements in the Alaska Small Boat Fleet	Oral	Nathan Lagerwey, Jaclyn Smith and Alicia Miller, NOAA Office for Law Enforcement / Alaska Division	Part 1, August 18th	3:40 PM	Lee Benaka

8	Electronic Technologies	Affordable Handheld Devices for Fisheries Observers: Field Testing and Future Plans	Oral	Simon J.B. Gulak ¹ , Michael P. Enzenauer ¹ and John K. Carlson ² , (1)Riverside Technology, Inc., (2)NOAA National Marine Fisheries Service	Part 1, August 18th	4:00 PM	Lee Benaka
9	Electronic Technologies	Application of Two Approaches for Electronic Monitoring: Documenting and Estimating Catch on Commercial Vessels in the Northeast US	Oral	Glenn Chamberlain ¹ , Nichole Rossi ² , Amy Martins ² and Kelly Neville ¹ , (1)Integrated Statistics, (2)National Marine Fisheries Service	Part 1, August 18th	4:20 PM	Lee Benaka
10	Electronic Technologies	Challenges and Solutions Implementing Reporting: An Ad Hoc Approach to a Regional-Centric Plan for Integrating New Technologies for Observer Data Collection within the Pacific Island Region	Oral	Joshua Lee , NOAA NMFS PIR	Part 1, August 18th	4:40 PM	Lee Benaka
11	Innovations in Data Collection	Applying Sampling Solutions to the Challenges of Collecting Data on Board Commercial Fishing Vessels	Oral	Adriana Myers and Nicholas Thom, NOAA Fisheries	Part 1, August 18th	5:00 PM	Lee Benaka
12	Innovations in Data Collection	Improving Observer Data Quality Using GIS	Oral	Mike Moon and Duane Stevenson, NOAA-Alaska Fisheries Science Center	Part 1, August 18th	8:00 AM	Lee Benaka
13	Innovations in Data Collection	Fishing Effort before and during IFQ Management in WCGOP-Observed Fisheries	Oral	Kayleigh Somers ¹ , Yong-Woo Lee ¹ , Jon McVeigh ² , Jason Jannot ² , Curt Whitmire ³ and Jim Hastie ⁴ , (1)Pacific States Marine Fisheries Commission, (2)NOAA NWFSC, (3)NOAA National Marine Fisheries Service, (4)Northwest Fisheries Science Center/NOAA Fisheries	Part 2, August 19th	8:20 AM	Dennis Hansford

14	Innovations in Data Collection	Evaluating the Effects of Observer Sampling on Estimates of Fishing Mortality in a U.S. Pacific Groundfish Fishery	Oral	Jason Jannot ¹ , Marlene A. Bellman ¹ , Jon McVeigh ¹ , Kayleigh Somers ² and Yong-Woo Lee ² , (1)NOAA NWFSC, (2)Pacific States Marine Fisheries Commission	Part 2, August 19th	8:40 AM	Dennis Hansford
15	Protected Species	West Coast Green Sturgeon Biological Data Collection and Tagging Studies. Bringing Fishermen, Observers, Scientists and Managers Together	Oral	Jon McVeigh ¹ , Kevin Stockmann ² , Susan Wang ³ and Phaedra Doukakis ³ , (1)NOAA NWFSC, (2)WCGOP - AOI, (3)NOAA/NMFS	Part 2, August 19th	9:00 AM	Dennis Hansford
16	Protected Species	Bayesian Spatiotemporal Modeling Approaches to Assess Green Sturgeon Bycatch Patterns in U.S. West Coast Groundfish Fisheries	Oral	Yong-Woo Lee ¹ , Eric J. Ward ² , Jason Jannot ³ , Kayleigh Somers ¹ and Jon McVeigh ³ , (1)Pacific States Marine Fisheries Commission, (2)NOAA Northwest Fisheries Science Center, (3)NOAA NWFSC	Part 2, August 19th	9:20 AM	Dennis Hansford
17	Protected Species	Evolution of Genetic Sampling in Atlantic Sturgeon (<i>Acipenser oxyrinchus oxyrinchus</i>) in the Northeast Fisheries Observer Program	Oral	Chad Keith, National Marine Fisheries Service (NOAA) Northeast Observer Program (NEFOP)	Part 2, August 19th	9:40 AM	Dennis Hansford
18	Protected Species	Long Term Observing for Protected Species Interactions in a Changing Fishery	Oral	Charles Villafana, National Marine Fisheries Service	Part 2, August 19th	10:20 AM	Dennis Hansford
19	Protected Species	Dolphin Safe Tuna & Cetacean Interaction Data Collection	Oral	Michael Marsik, NOAA Fisheries	Part 2, August 19th	10:40 AM	Dennis Hansford
20	Protected Species	Observer Seabird Data Collection	Oral	John Preschon , National Marine Fisheries Service	Part 2, August 19th	11:00	Dennis Hansford

		Collaborative Support for Potential Observer Victims	Poster	Nathan Lagerwey, Jaclyn Smith and Alicia Miller, NOAA Office for Law Enforcement / Alaska Division			
		Improving Observer Data Delivery for Inseason Management	Poster	Neil Riley , National Marine Fisheries Service			
		A Summary of Albatross Band Recovery Data in the Hawaii Deep and Shallow Set Longline Fisheries	Poster	John Preschon , National Marine Fisheries Service			
		Assessing the Impact of U.S. West Coast Groundfish Fishery and Management on Elasmobranchs	Poster	Jason Jannot ¹ , Rhema Bjorkland ¹ , Vanessa Tuttle ¹ , Marlene A. Bellman ¹ , Toby Mitchell ² , Jon McVeigh ¹ and Michelle McClure ¹ , (1)NOAA NWFSC, (2)Pacific States Marine Fisheries Commission			
		Collection of Observer Data on Small Boats: Challenges and Solutions	Poster	Alyssa Mathers ^{1,2} , Bethany Deacy ^{1,2} and John K. Carlson ² , (1)Riverside Technology, Inc., (2)NOAA National Marine Fisheries Service			
		Essential Data Collection of Life History Samples Using on-Board Observers for Age-Based Estimates of Mortality and Reproductive Potential	Poster	Michael Enzenauer , Riverside Technology, Inc. and John K. Carlson, NOAA National Marine Fisheries Service			
		Otoliths, Ovaries, and Fin Clips, Oh My! Biological Specimen Sampling By Human Observers	Poster	Cassandra Donovan, NOAA Fisheries			
		Satellite Messenger Vs. Satellite Phone	Poster	Thomas Morrell , Riverside Technologies and Kenneth Keene, NOAA			

		Implementation of Violation Reporting Program for the Southeast Pelagic Observer Program	Poster	Sascha Cushner, NOAA Fisheries			
		Use of Observer Data to Validate a GPS-Based Effort Prediction Model for Southeast U.S. Reef Fish Fisheries	Poster	M. Scott Baker Jr., North Carolina Sea Grant			