Kathi George
CA Dungeness Crab Fishing Gear Working Group





Goals in 2018/19:

- Explore viability of solar loggers to support data needs for Risk Assessment and Mitigation Program (RAMP) developed by the California Dungeness Crab Fishing Gear Working Group (CA Working Group)
- Quantify and clarify the spatial distribution of commercial Dungeness crab fishing and whales, and the relationship between the two
- Inform the relative risk of whale entanglement

Additionally, how can solar loggers support new regulations





Duration: December 2018 - January 2021 (in-process extension to **August 2021**)

Key Partners:

- Volunteer commercial D crab fishermen (40-43/40)
- Volunteer whale watch organizations (10/20)
- CA Working Group



















Data Access & Sharing

- Fisherman & whale watch participants have full control over data access and sharing
- Data collected is proprietary to each participant and is stored on secure servers with Pelagic Data Systems
- No individual data will be made accessible to the Working Group and will be shared in aggregate reporting form





	Fishing	Whale Watch
Participants	 40-43 9 are also doing DA or Quality testing. 3 of those are unsure of participating in this pilot project 5 fishermen need to provide permission to include data (have logger) 	10
Total Solar Loggers Available via Grant	40	20





Costs

- Solar Logger = \$150
- Data Service = \$300/year





Data & Functionality

Easy to install, and no effort once installed

- Anyone with a screwdriver can easily install and there is no on/off button
- Logger automatically activates once it receives access to direct sunlight and has a full charge.
 (Usually it is immediate, but in the case of longer storage periods, the logger may need to recharge a bit first)





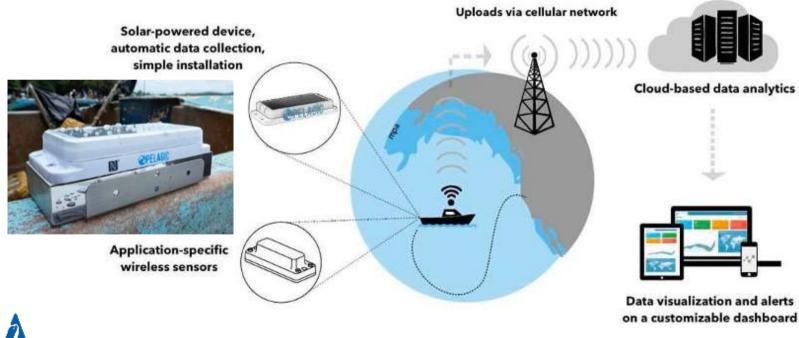






Data* & Functionality

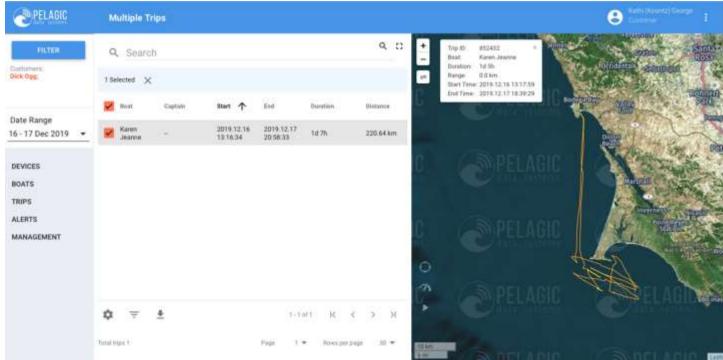
*Data is encrypted and secure. Access is controlled by the fisherman.







Pelagic Data Systems (PDS) Portal

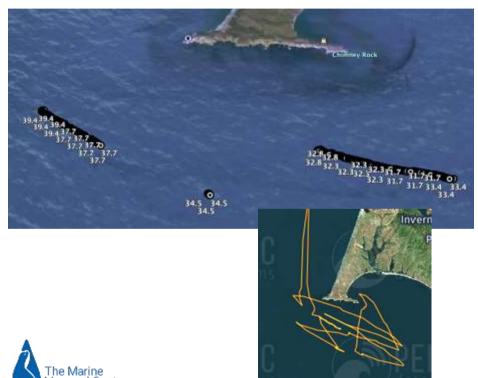






PDS Data with Depth

(Point Blue Conservation Science script)





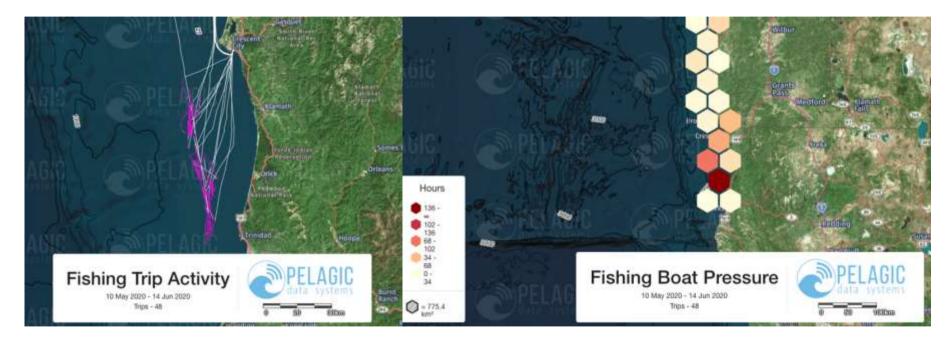
PDS Maps







PDS Maps (with Bathymetry)







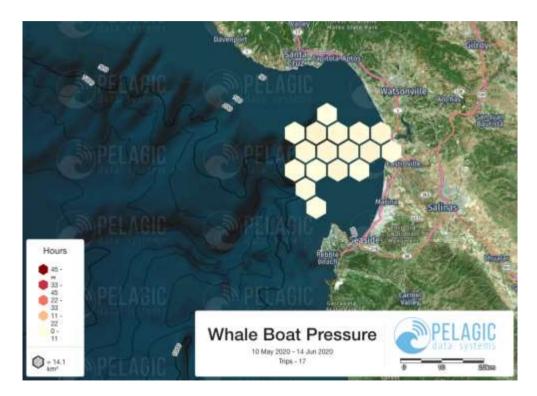
PDS Maps







PDS Maps







Next Steps

- Ongoing DA & quality testing
- Complete the pilot project with + participants
- Explore/Refine with Dave Colpo/PSFMC
 - Scripting opportunities
 - New analyses and reports
 - Opportunities to comply with regulations
 - Other uses for solar loggers

Fishing Opportunity:

- Transit closed areas
 - DA closure or District 10 closure prior to original July 15th closure









Thank you!



kathikoontz@gmail.com

