# Longfin Smelt MAST Synthesis Meeting

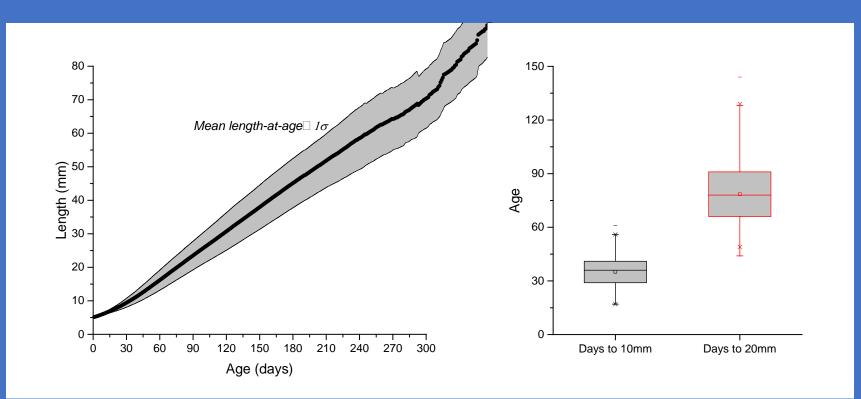
#### October 21, 2016

**UCD Data and Corresponding CDFW Data** 



## Early Life History Growth

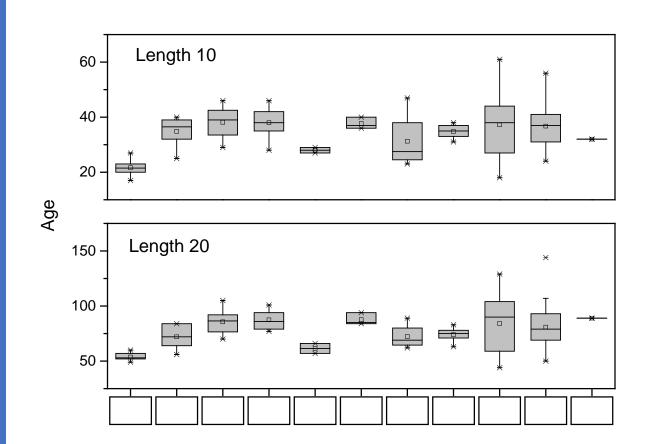
Q1. How long does it take to reach 10mm, 20mm?





### **Early Life History Growth**

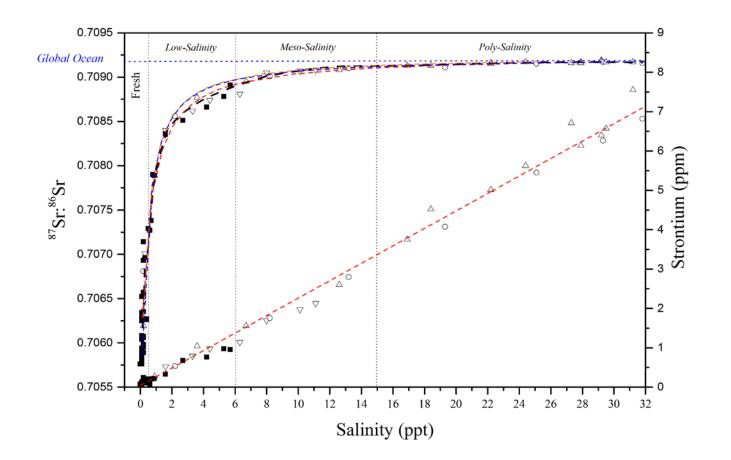
Q2. Is there evidence of a trend through time?



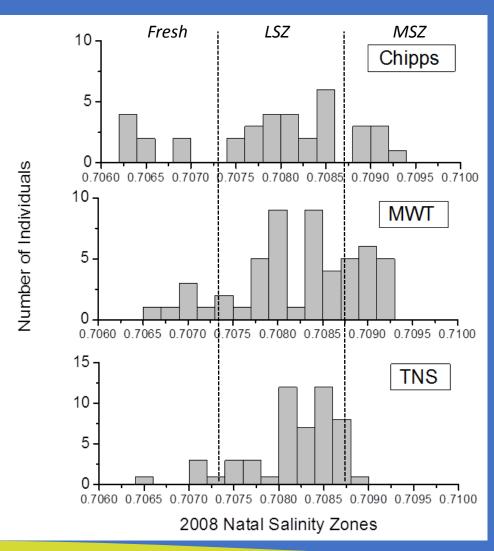
## **Natal Origins-Salinity History**

**ONE WORLD** 

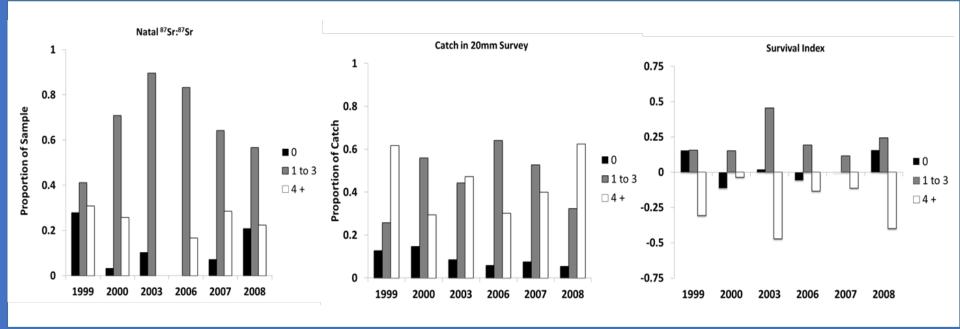
**UCDAVIS** 



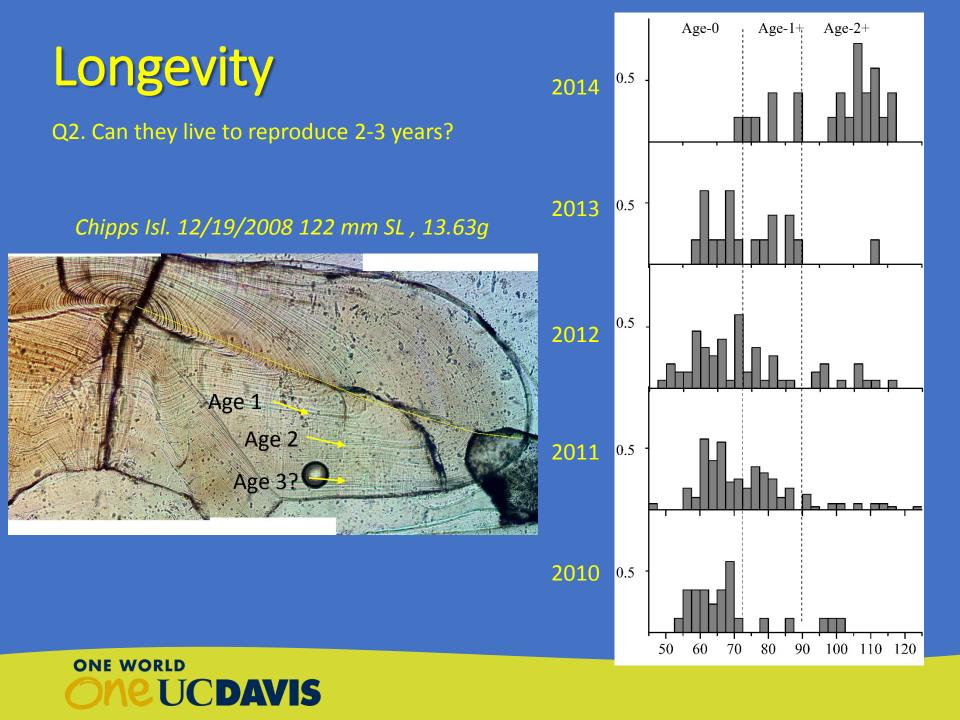
### Natal Origins -2008



## Longfin Recruit from LSZ <4ppt







## **Longfin Smelt Bay Tributaries**





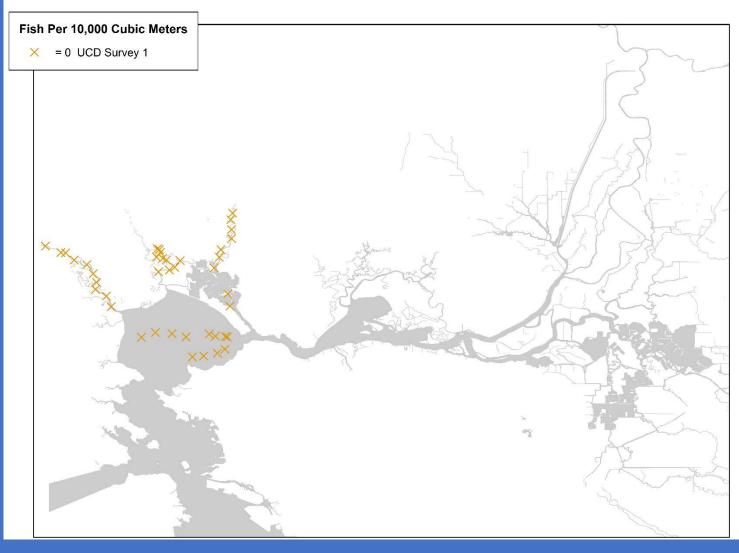
#### Species sum and percentage of catch for UCD SLS and 20mm nets

Species	Catch Sum	%of Catch
Pacific herring	138545	68.37%
yellowfin goby	50658	25.00%
Northern anchovy	5968	2.94%
prickly sculpin	4152	2.05%
unidentified Larval Fish	2457	1.21%
longjaw mudsucker	382	0.19%
threespine stickleback	279	0.14%
jacksmelt	86	0.04%
longfin smelt	54	0.03%
splittail	25	0.01%
arrow goby	20	0.01%
shimofuri goby	2	0.00%
topsmelt	6	0.00%
Sacramento sucker	4	0.00%
white croaker	3	0.00%
bay pipefish	2	0.00%
delta smelt	2	0.00%
Pacific staghorn sculpin	2	0.00%
longfin smelt/delta smelt hybrid	1	0.00%
Centrarchidae spp.	1	0.00%
Total:	202649	100.00%

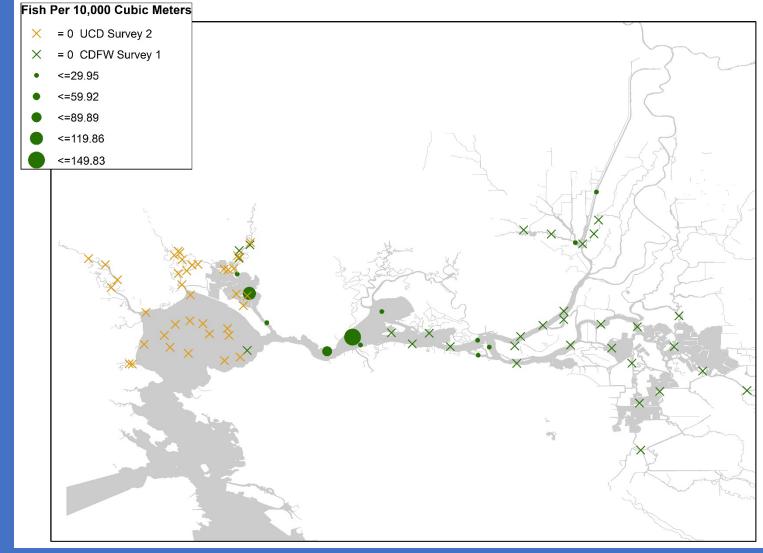
Note: Not all catch from SLS and 20mm are larval. This includes some juvenile and adult sizes of fish caught in the SLS and 20mm net.

3/1-4/2016

Note: UCD tows 1 time per location compared to CDFW's 3 tows. CPUE values are per location.

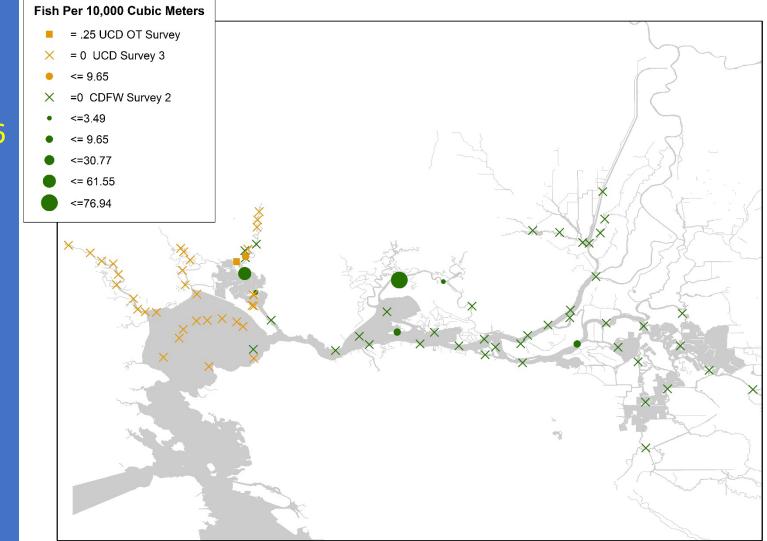






#### 3/14-17/2016

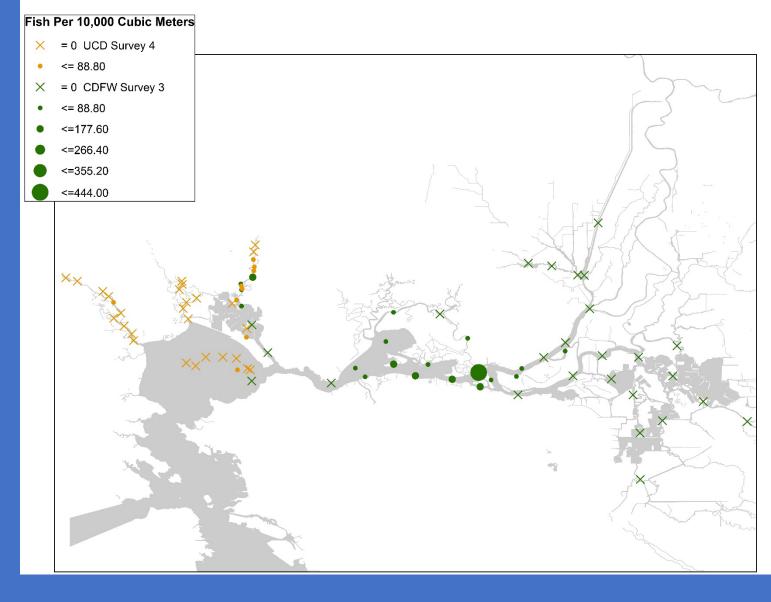




### 3/28-4/1/2016

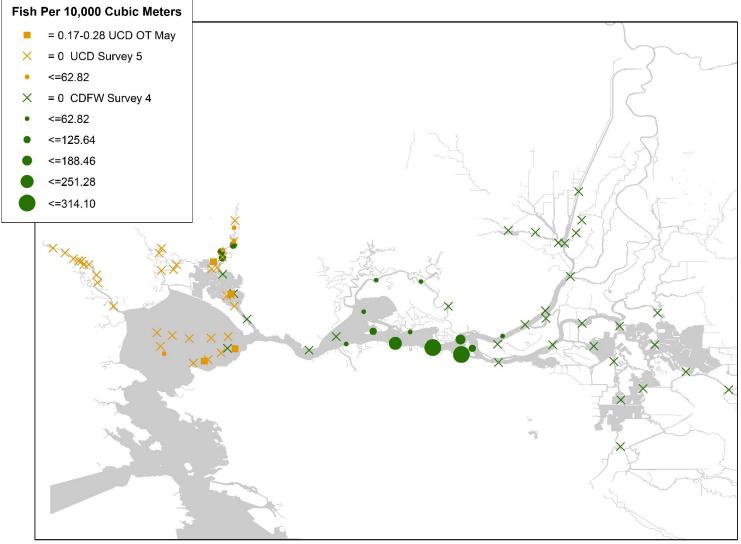


#### 4/11-15/2016

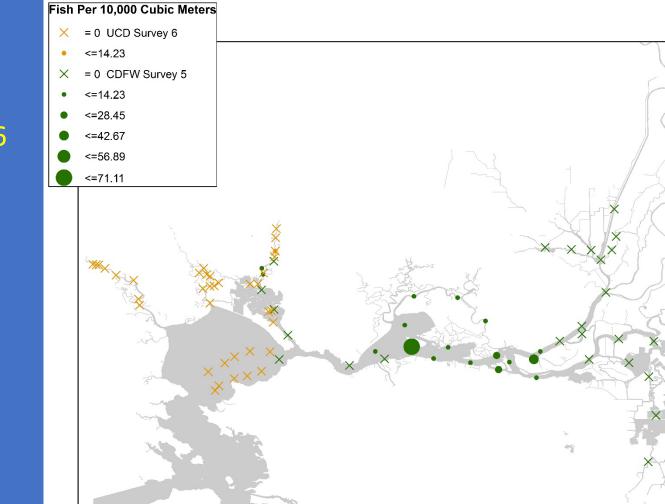






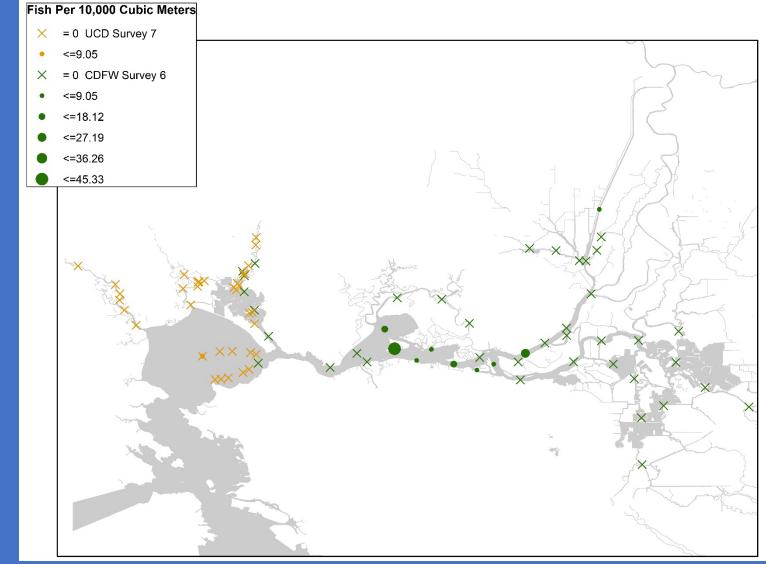






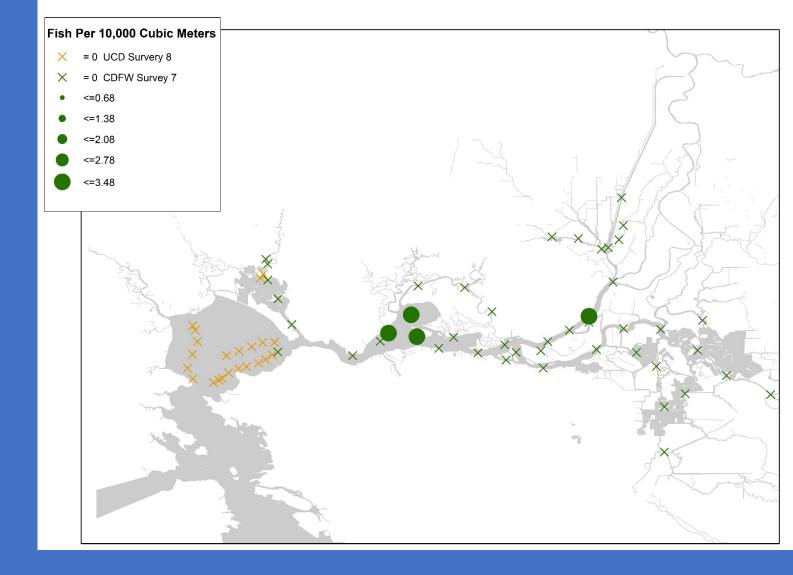
#### 5/9-13/2016





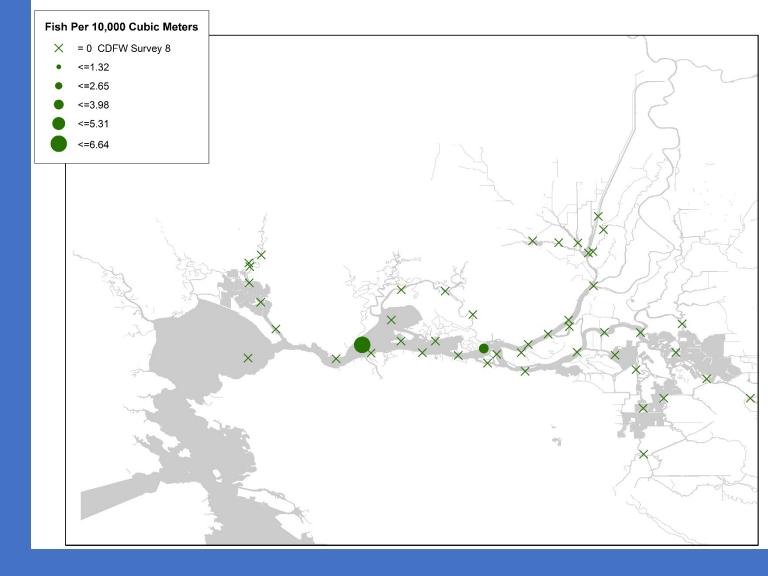
### 5/23-27/2016





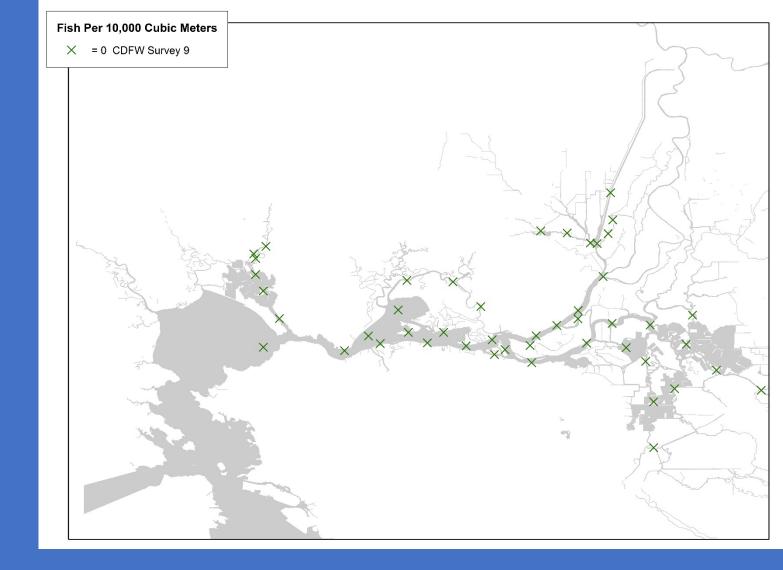
### 6/6-9/2016





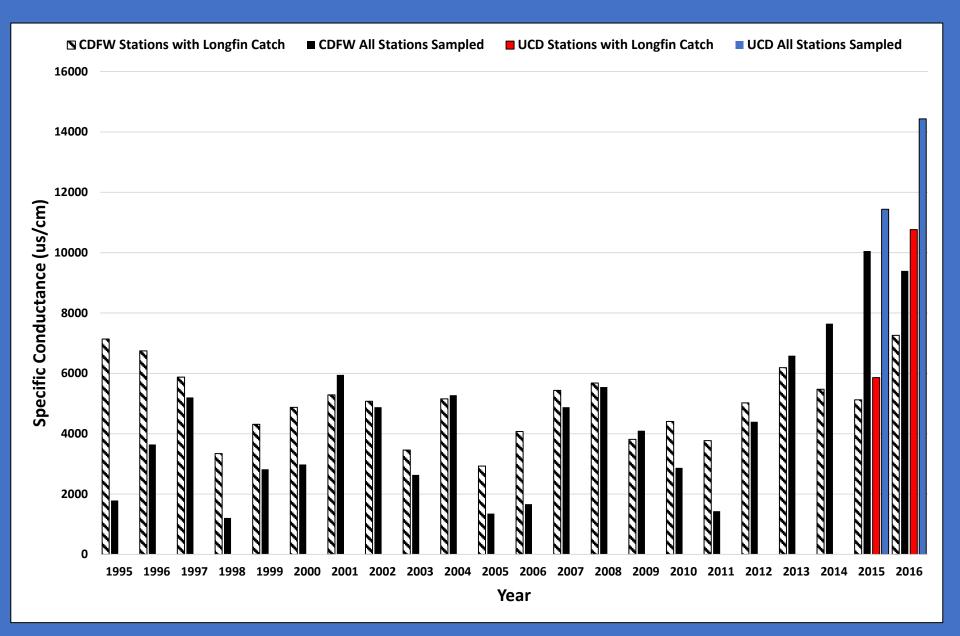
#### 6/20-23/2016



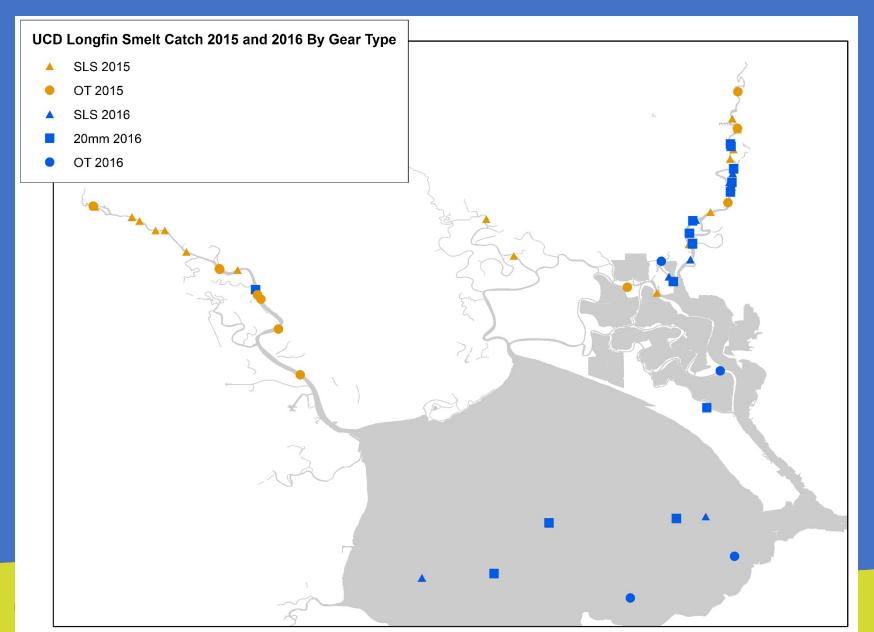


#### 7/5-7/2016

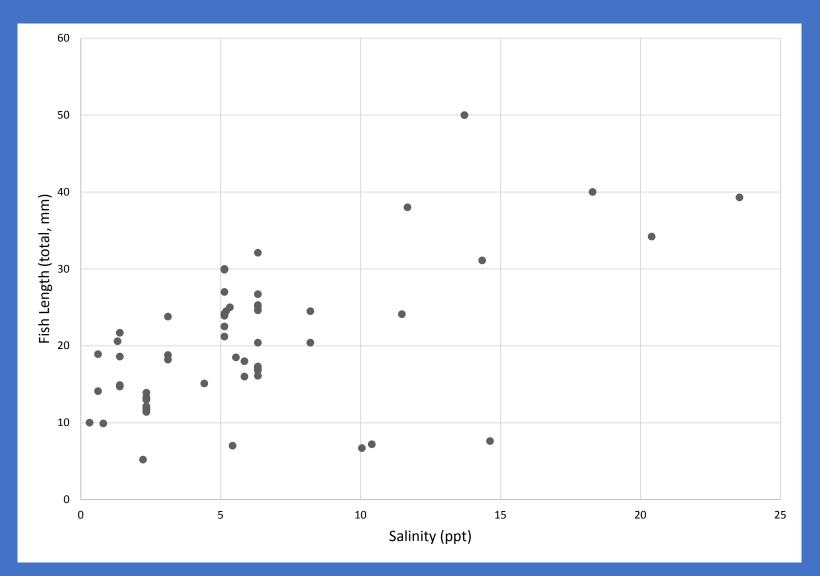




## UCD Longfin Catch 2015 and 2016



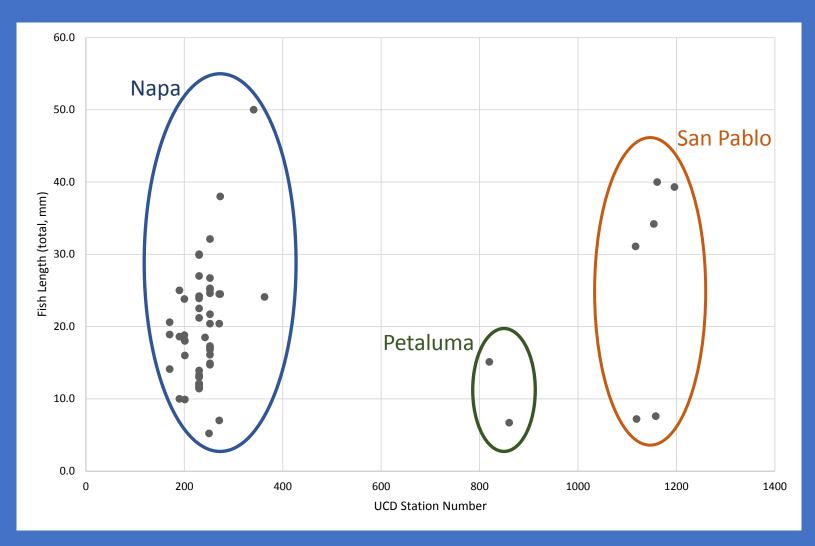
### UCD Fish Length By Salinity Level



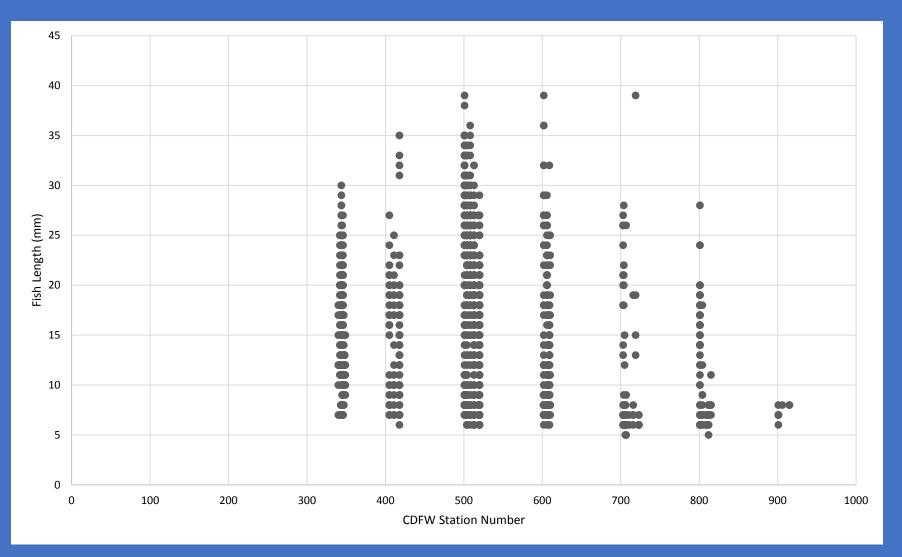
**ONE WORLD** 

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### UCD Fish Length By Station (2016 all gear types)



### CDFW Fish Length By Station (2016 SLS and 20mm)



### CDFW Fish Length Over Time (2016 SLS and 20mm)

