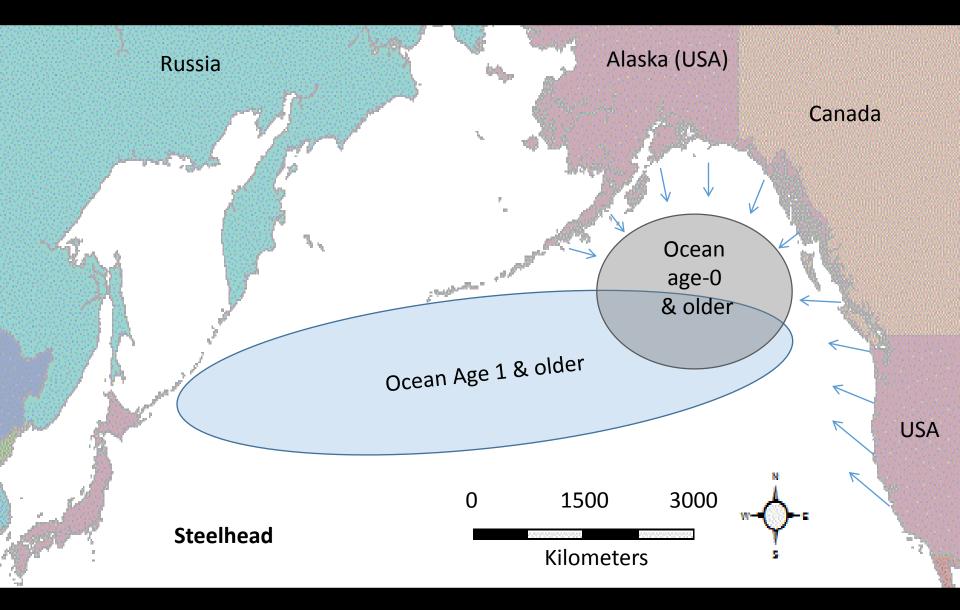
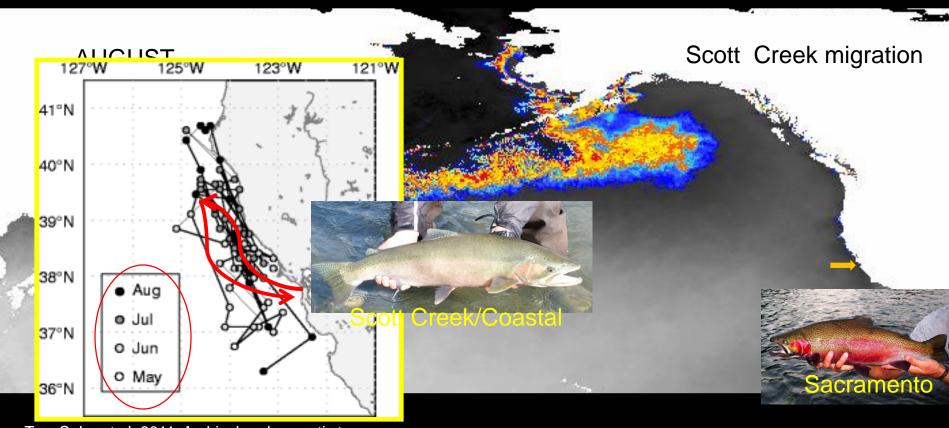


General Steelhead Ocean Distribution

(based on several works by Myers, Atcheson, and Burgner)



California Steelhead Marine Habitat Use

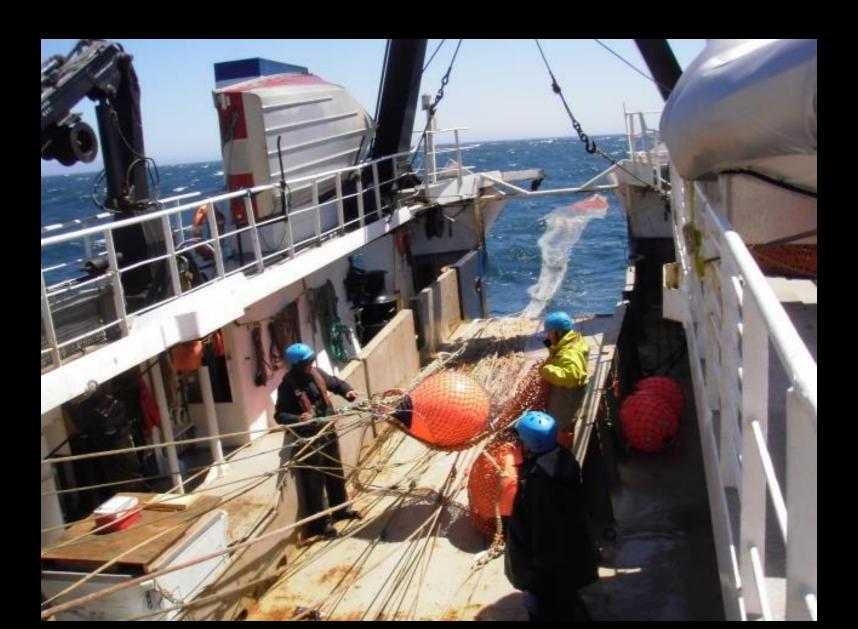


Teo, S. L., et al. 2011. Archival and acoustic tags reveal the post-spawning migrations, diving behavior and thermal habitat of hatchery-raised Sacrame (to one or steelhead kelts (*Oncorhynchus mykiss*). EBF

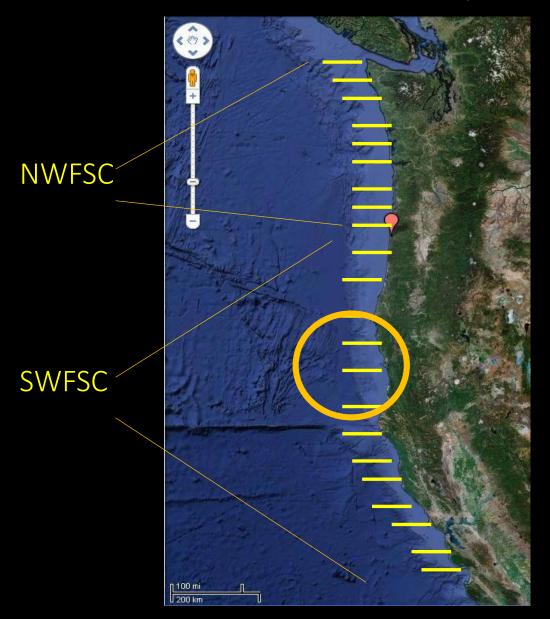
If they go to sea... then what?



Ocean Surveys



Ocean Surveys

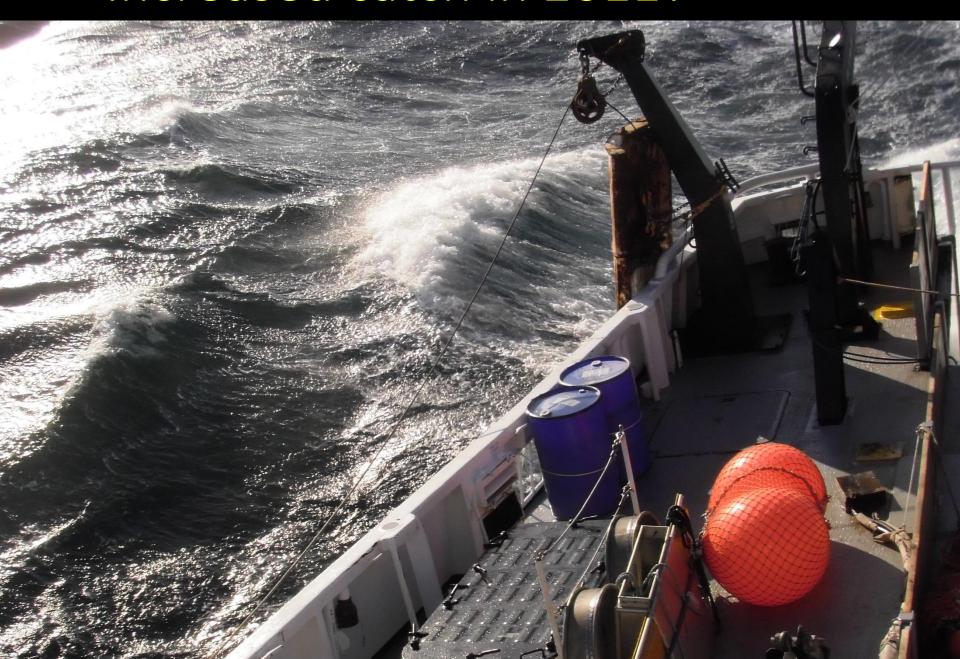




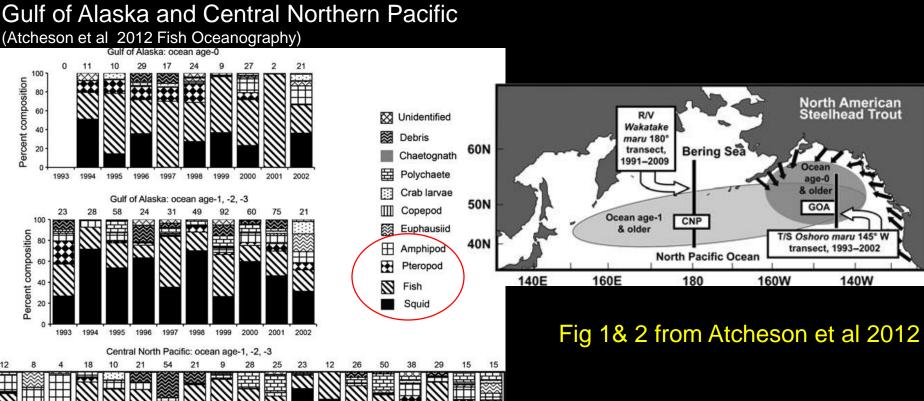
Half pounder?

10 20 30 10	sp 60 70	80 90 100 100 150	140 150 160 170 160 I	0 200 110 210	230 240 250 260	270 280 290 300 318 3
		Total	Mean Fork	CD.	% ad	Doto
	0007	caught (n)	Length (cm)	SD	clipped	Date
用多數	2007		27.6	1.3	14%	August
建模型数	2010		30.8		100%	June/July
	2011	66	27.1	6.3	21%	June/July
2 30 40 55	2012	37	23.5	3.5	14%	June/July
	2013	56	30.2	4.8	39%	July
						1 000
	6					
			1 2 4 4 1 4	-		0/

Increased catch in 2011?



Diet difference between coastal and pelagic stocks?



NWFSC OR/WA Coast (Daly et al 2014)

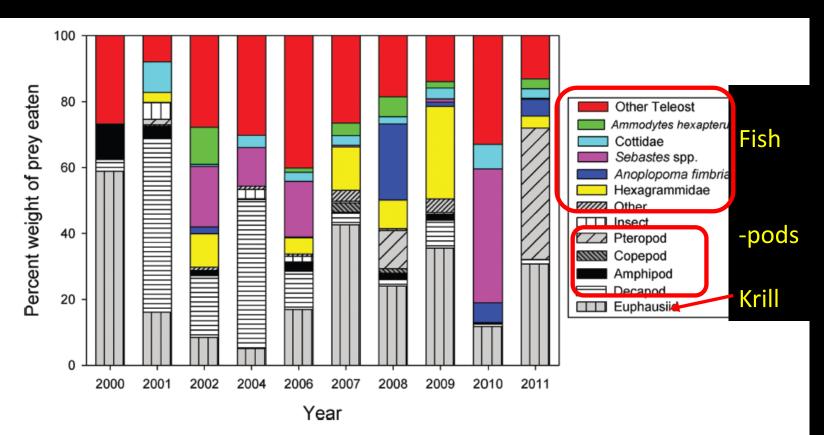
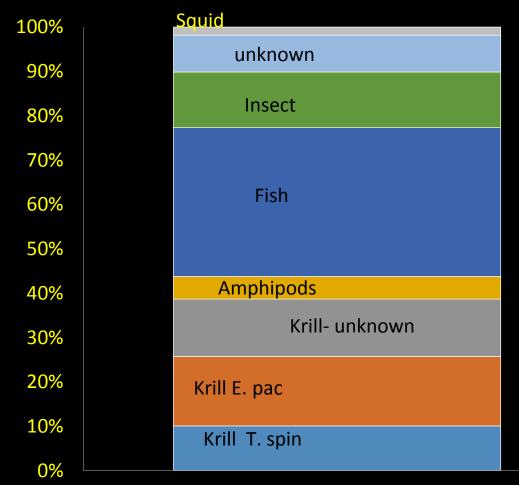


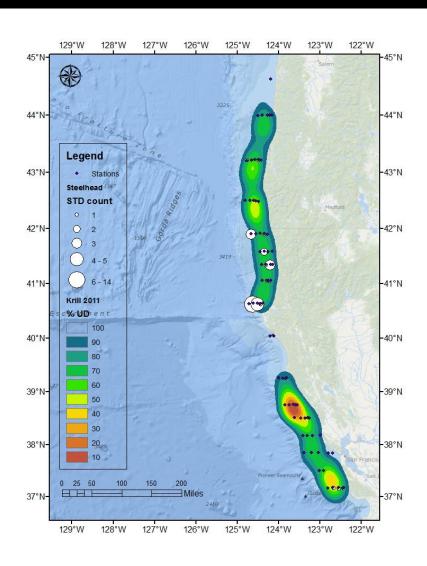
FIGURE 4. Composition of the diet consumed by juvenile steelhead off the coasts of Oregon and Washington, 2000–2011. Fish prey taxa are shown in color, whereas other taxa are shown in grayscale. The "other" category includes arachnids, cirripedes (barnacle larvae), mysids, polychaetes, isopods, and gelatinous material. The "other teleosts" category includes clupeids, gadids, salmonids, osmerids, and other unidentified fish (including fish tissue and parts). Unidentified crustacean parts and material, fish scales, unidentified material, plant material, and plastic were excluded from the analysis. See Appendix Table A.1 for common names of taxa.

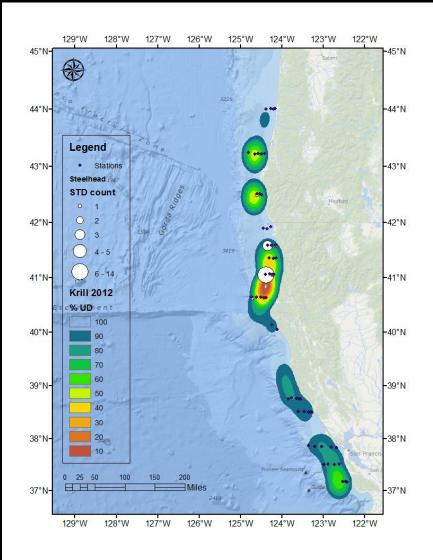
SWFSC Northern CA Fish

Steelhead Diet Composition by mass (g) n=52



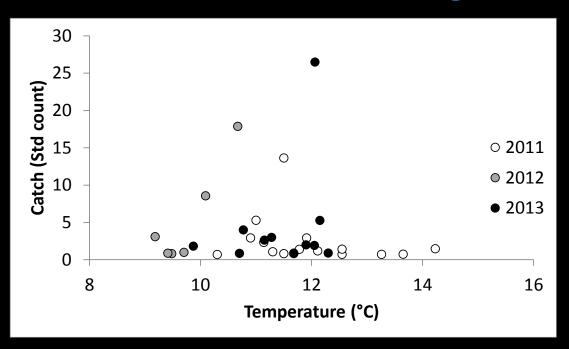
Steelhead vs 'Krill' distribution

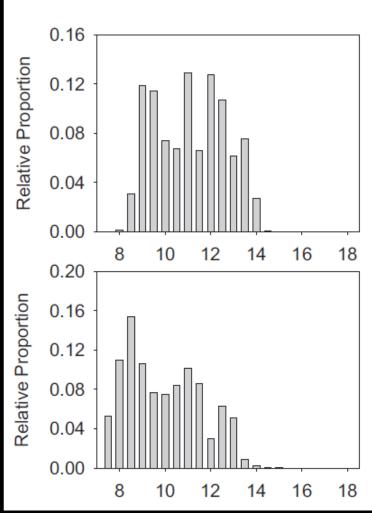


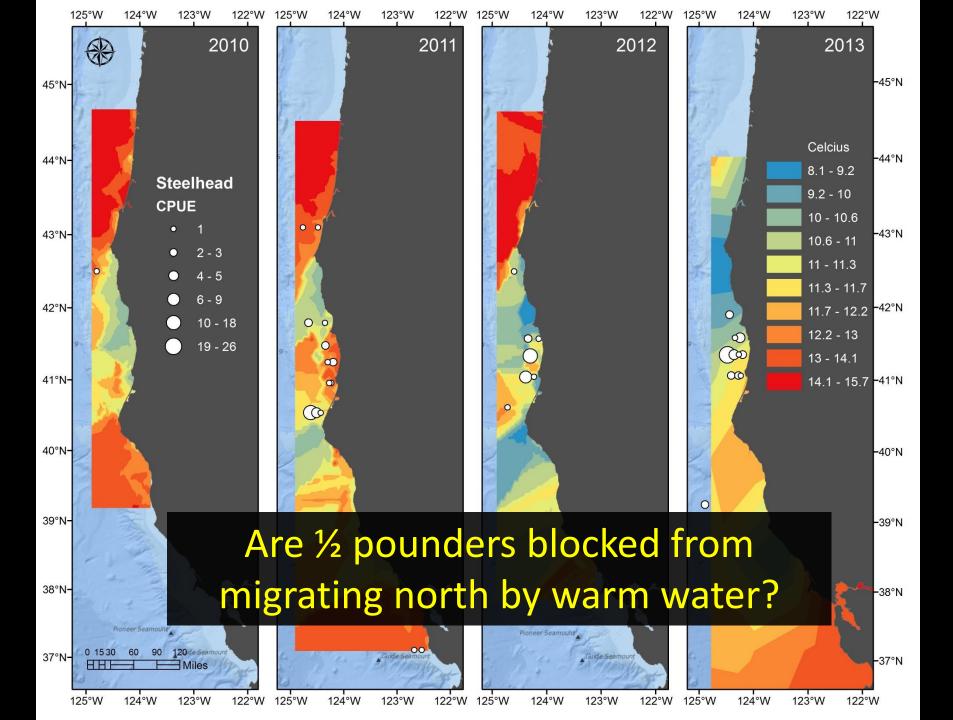


Scott Creek Archival tag records

SST for California ocean caught fish









Where do they go in September?





Acknowledgements:

Crews of the Ocean Starr and Frosti NOAA SWFSC for shiptime NOAA NWFSC FE Division for technical advice (and moral support)

