2015 Alaska Fish Passage Meeting Fish Movements and Behavior Session

GOAL

Provide participants with a common understanding of:

- fish movements
- culvert impacts on fish movements



Fish Movement Studies in Alaska 2015 Alaska Fish Passage Meeting Juneau, Alaska October 13-14, 2015

John Hudson Juneau Field Office



Pink salmon migrating up Sargent Creek on Kodiak Island. USFWS/K.Mueller

PACIFIC SALMON 1-2/2-7 1-4/1-4 0/3-4 Chinook Sockeye Chum 1-5/0.5-1.5 Coho Pink 0/0.5-1.5

Residency (years)

freshwater/saltwater

Other anadromous salmonids





Cutthroat trout



Dolly Varden char

Rainbow trout (Steelhead)



Migration of Anadromous Dolly Varden Char in SE Alaska – A Manager's Nightmare

> Robert H. Armstrong ADFG

> > Lake Eva - (tagging site)



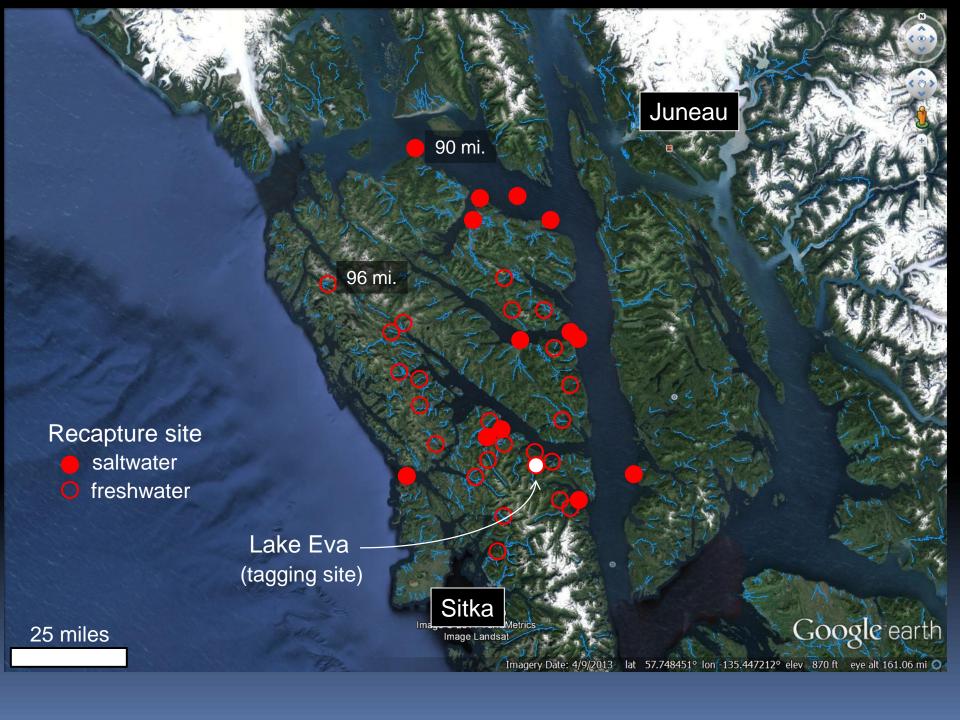
Image © 2014 TerraMetrics Image Landsat

Imagery Date: 4/9/2013

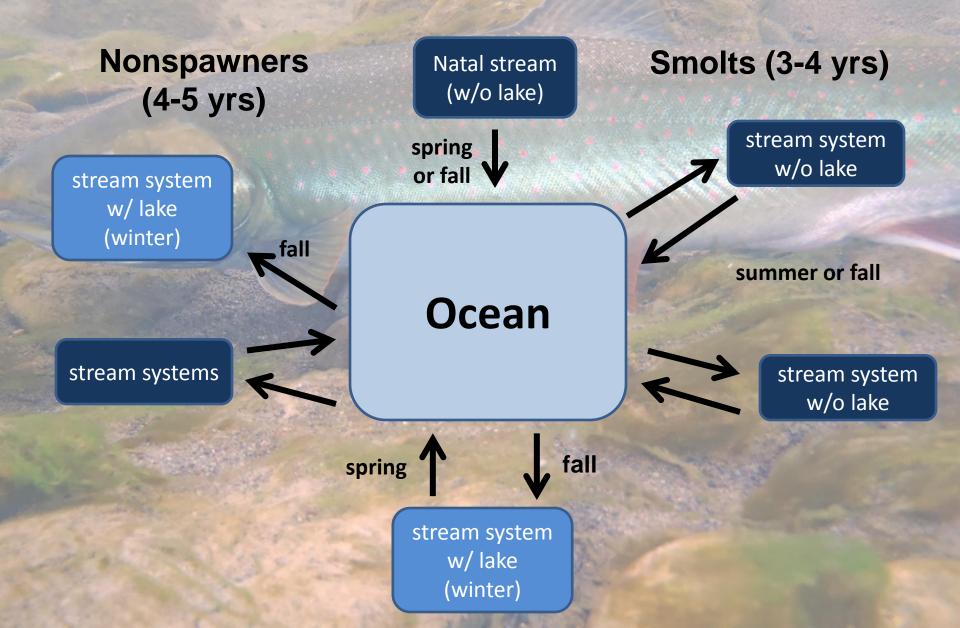
JUNEAU



25 miles



Dolly Varden Seasonal Migrations



Movements of Sea-Run Cutthroat Trout Overwintering in Auke Lake in Juneau Alaska

> Doug Jones and Cheryl Seifert (ADFG)

> > Auke Bay



Cutthroat trout spawning streams O



Tuxekan Passage

Seasonal Use of Tributary and Main-Stem Habitats by Juvenile Steelhead, Coho Salmon, and Dolly Varden

Robert G. Bramblett et al.



Twiw Creek

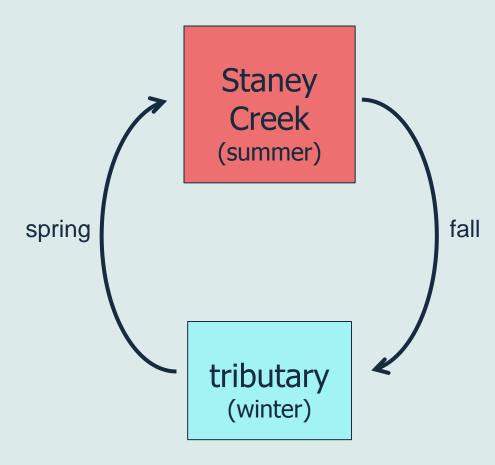
Staney Creek

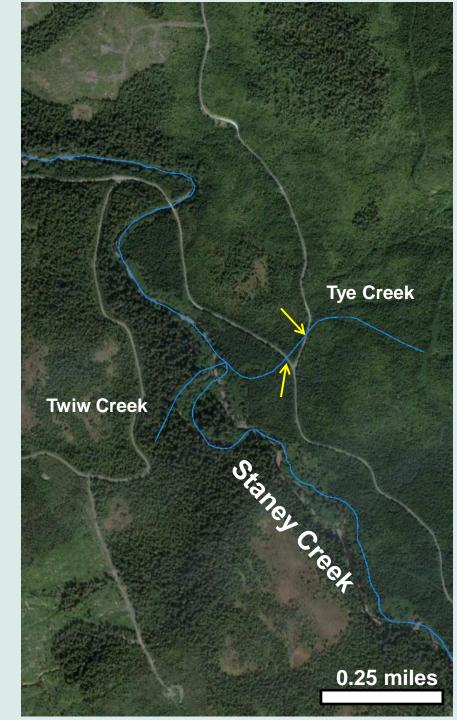


RESULTS

JUVENILE STEELHEAD:

- summer in Staney Creek (mainstem)
- winter in tributaries
- 1,055 overwintered in Tye Creek







- Know your fish movement patterns vary within and among species
- Fish move seasonally among spawning, rearing, overwintering, and growth/maturation habitats
- Seasonal habitats can be widely distributed
- Small streams can play a large role in supporting fish populations
- Numerous scientific studies support our current understanding of fish movement patterns in Alaska

Dolly Varden Seasonal Migrations (spawners)

