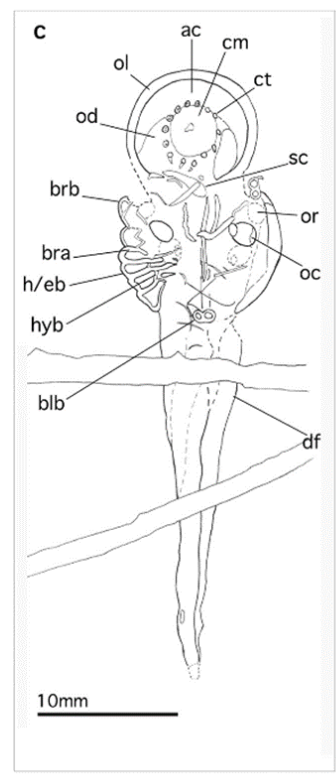
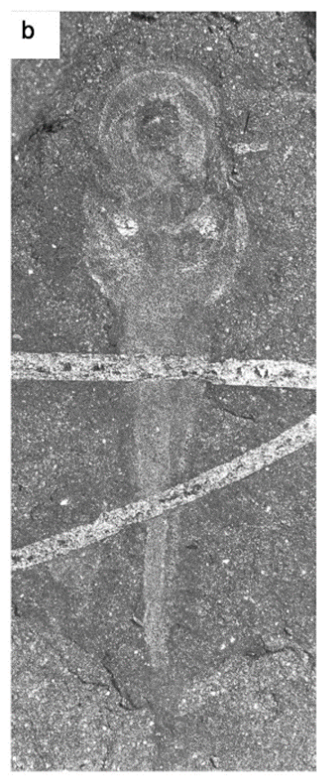
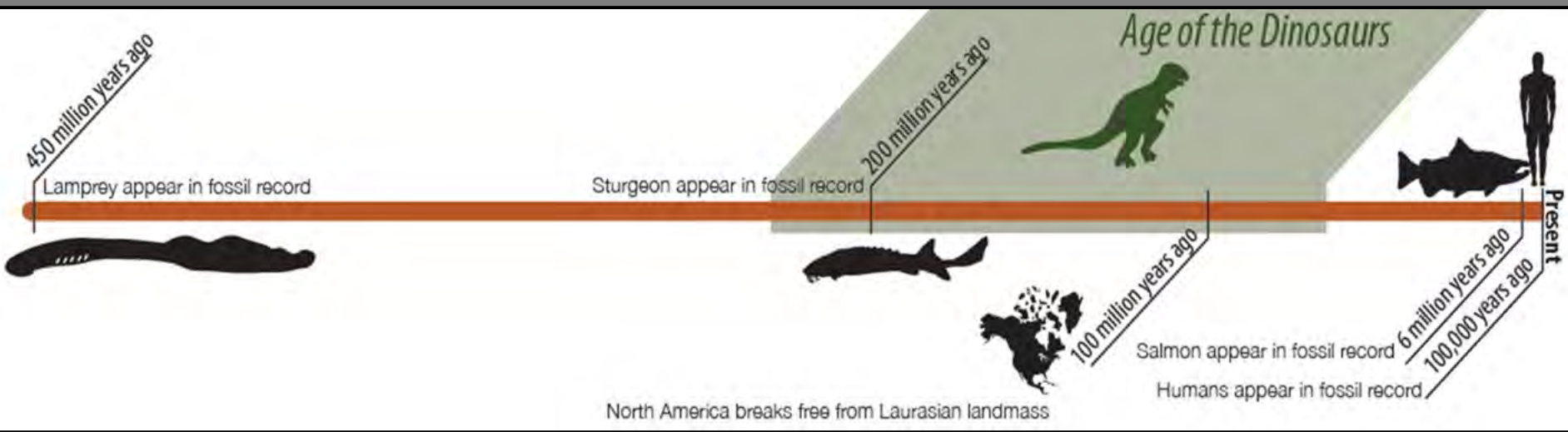


A close-up photograph of a lamprey resting on a riverbed of smooth, rounded stones. The lamprey is brownish-tan with a prominent blue spot on its side. Its head is positioned in the lower right, and its body extends towards the upper left. The background is slightly blurred, showing more of the riverbed and the water's surface.

Biology, Life Histories and Threats of Lampreys

Ben Clemens Oregon Department of Fish and Wildlife
Christina Wang U.S. Fish and Wildlife Service



What are Lampreys?

- One of least-derived fish
- Sucker-like mouth, eel-like body
- No scales, bones, or paired fins
- About 50 species
 - Parasitic and Non-parasitic
 - Anadromous and Resident



Anadromous / Parasitic



Pacific Lamprey (> 13")



**Western River
Lamprey (≤ 12 ")**

Resident / Non-feeding

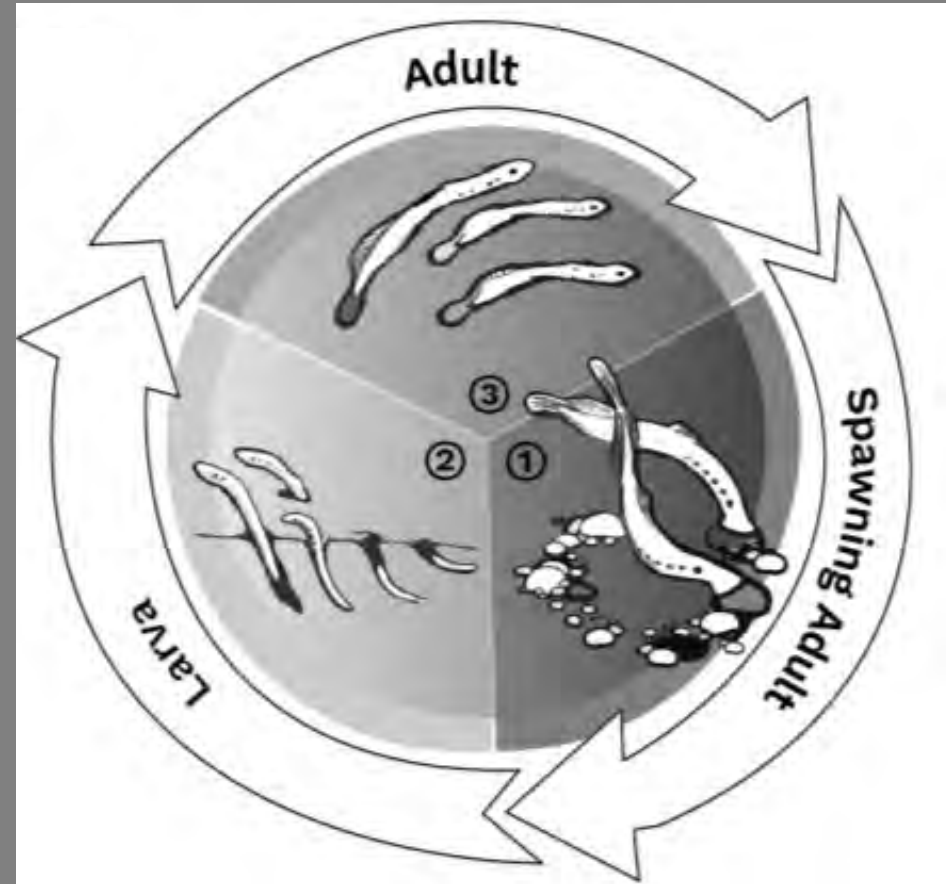
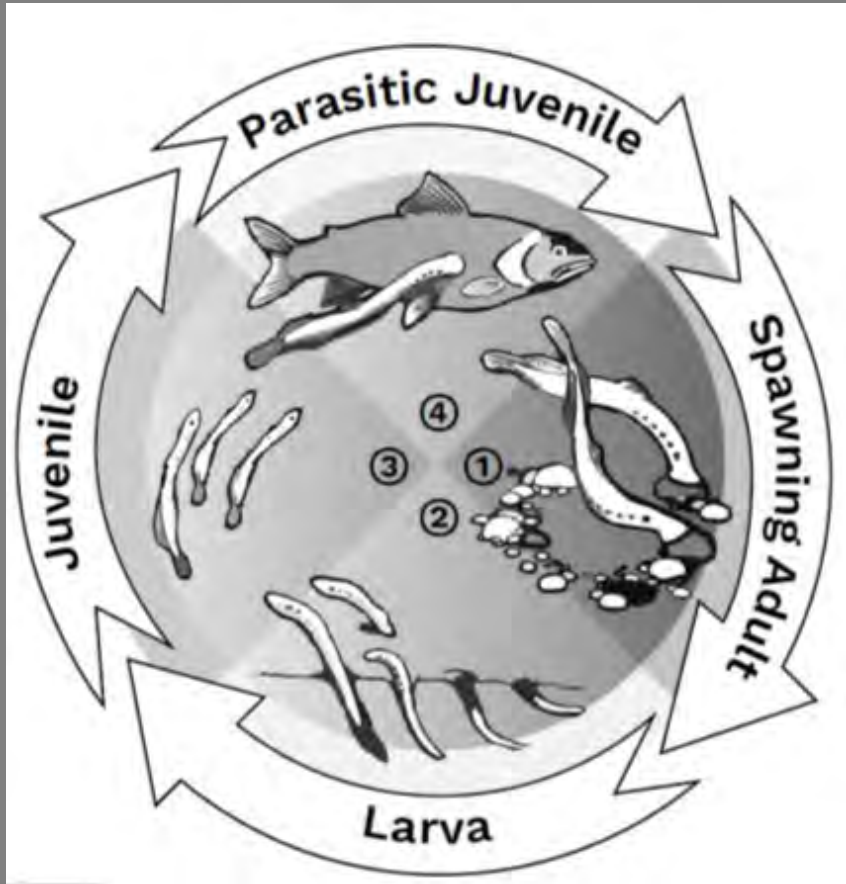


Western Brook Lamprey (≤ 7 ")



Pacific Brook Lamprey (≤ 7 ")

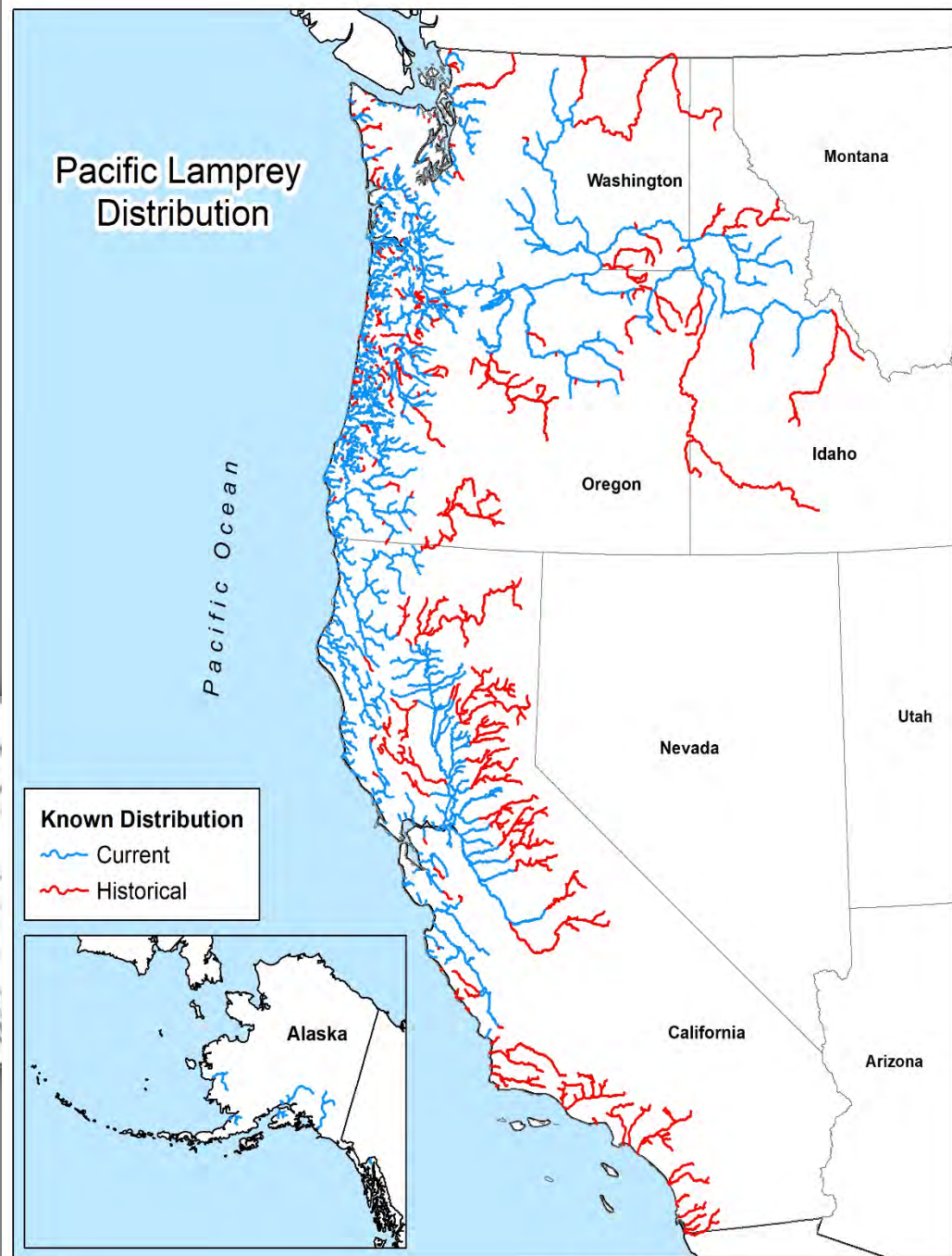
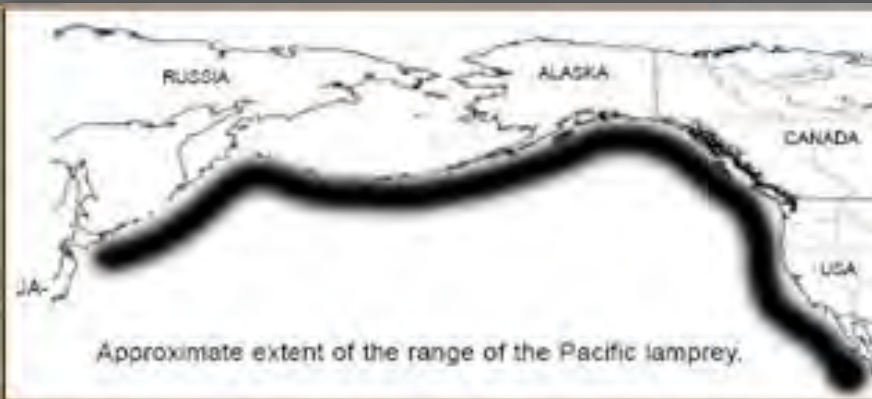
Lamprey Life Cycles



**Parasitic
Anadromous or
Resident**

**Non-Feeding
Resident**

Range and Distribution of Pacific Lamprey

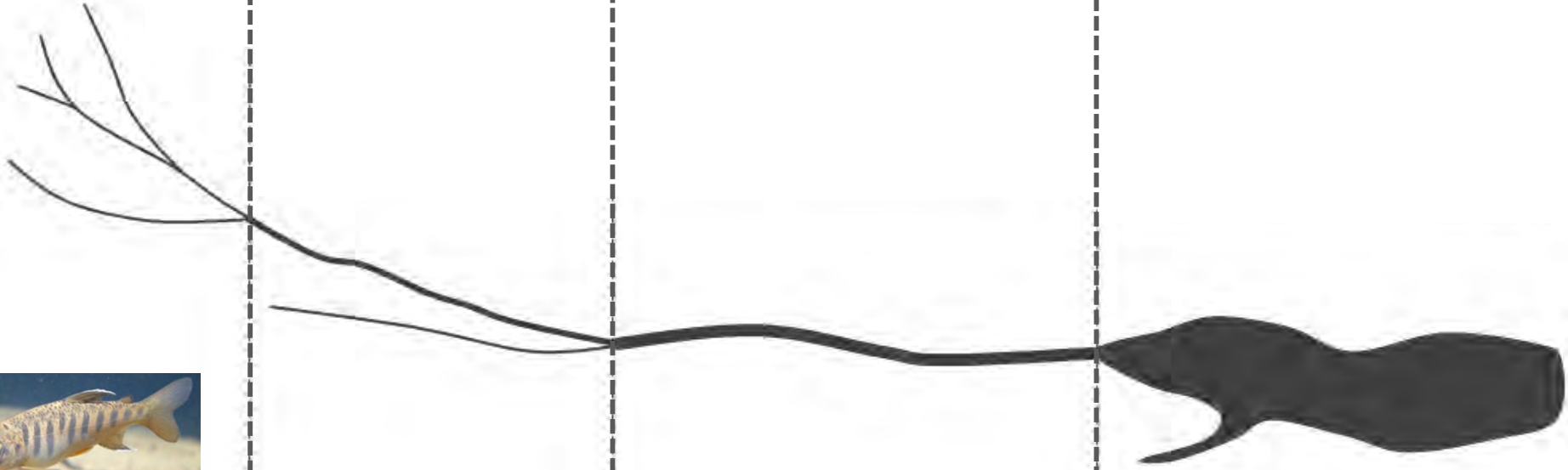


Small streams
< 20 km²

Medium streams
20 – 80 km²

Large rivers
> 80 km²

Estuaries

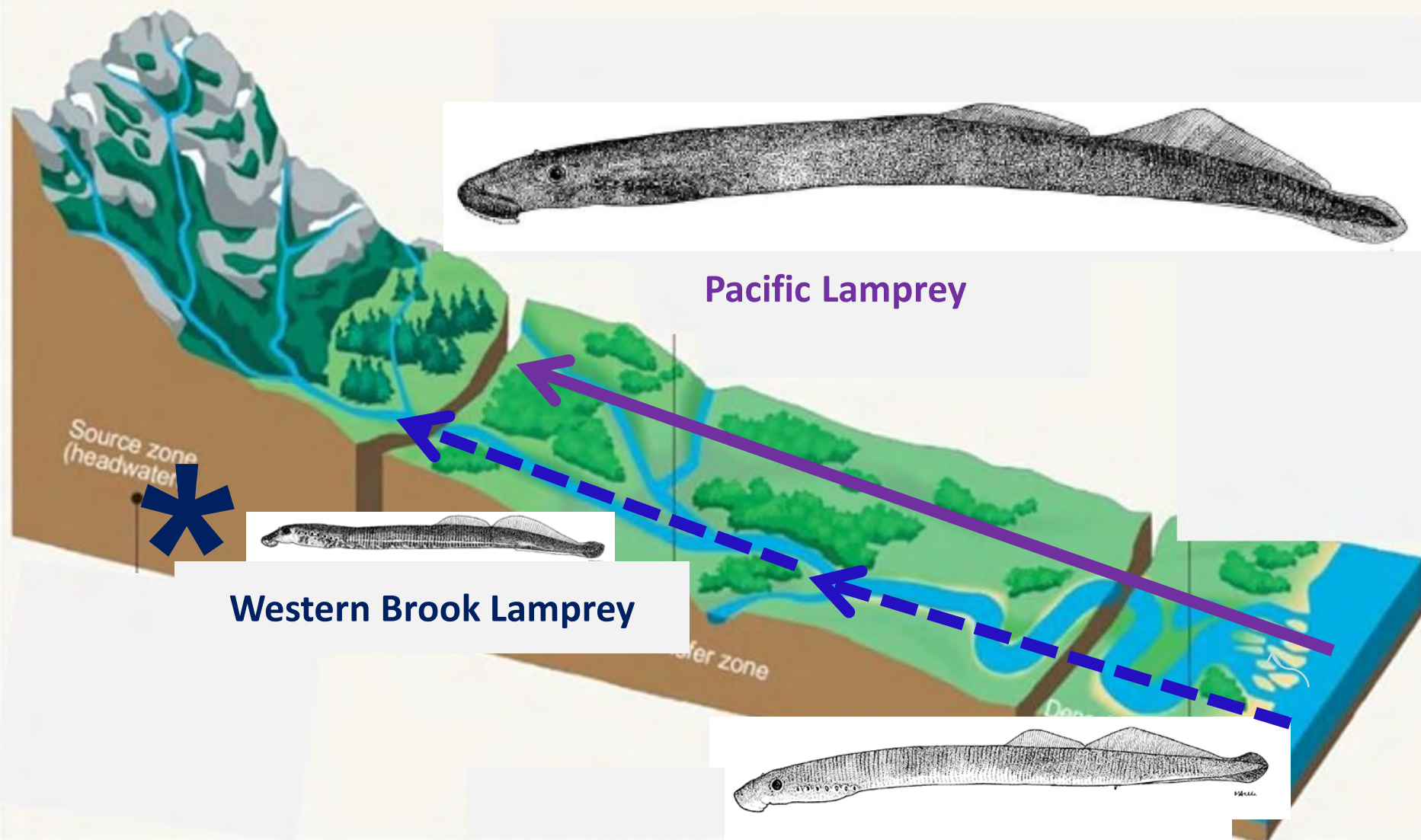


OC Coho Salmon

CR Chum Salmon

Pacific Lamprey

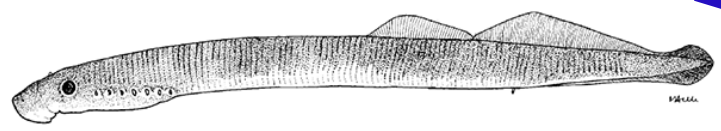




Pacific Lamprey



Western Brook Lamprey



Western River Lamprey



Marys River, Willamette Basin

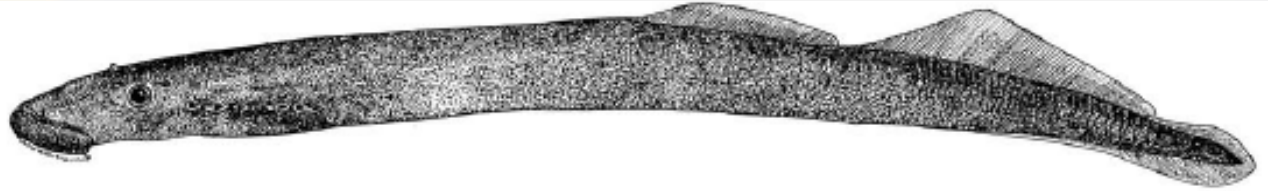


Pringle Creek, Willamette Basin

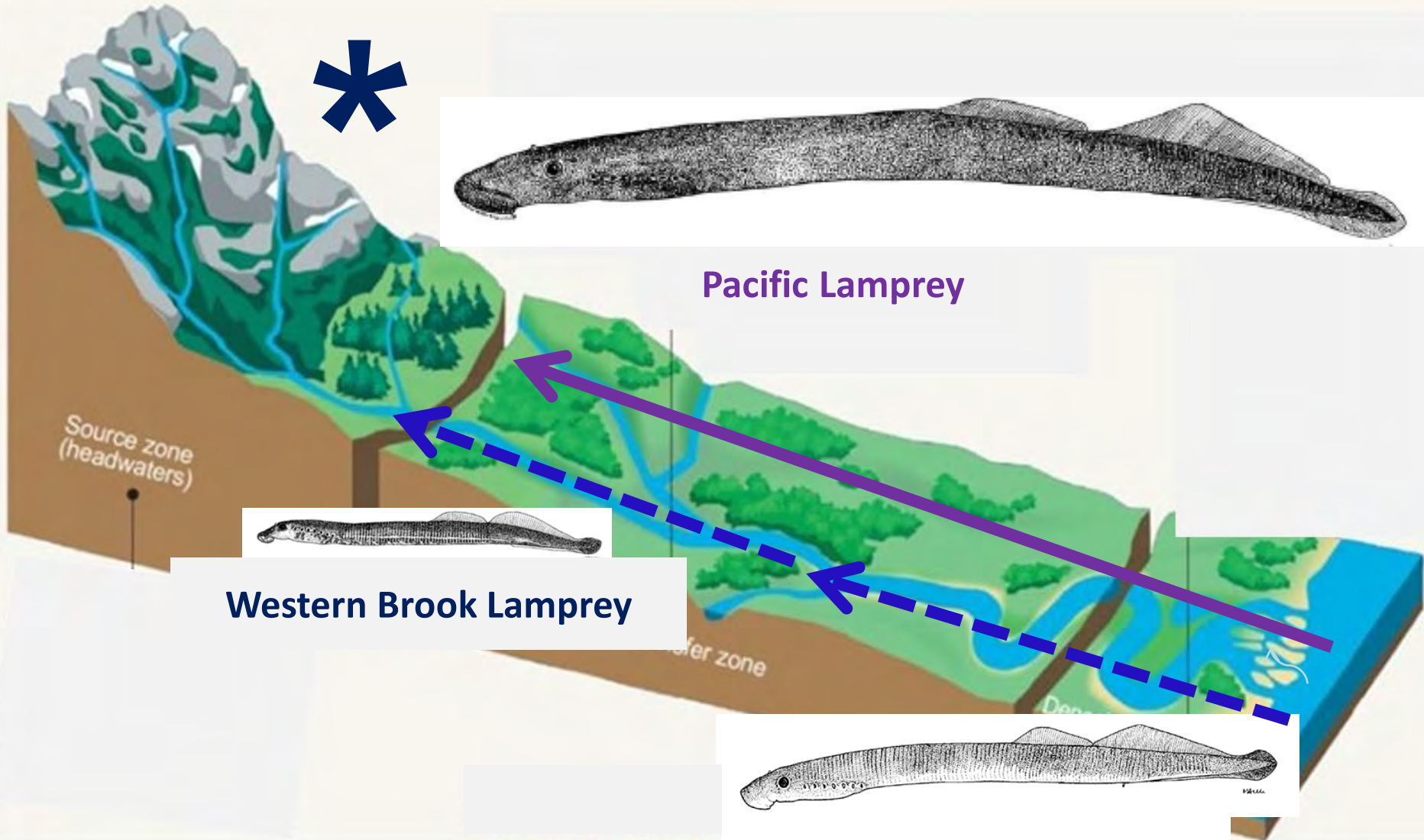
Pete Baki



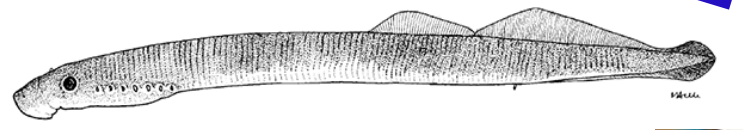
Beaver Creek, OR Coast



Pacific Lamprey



Western Brook Lamprey



Western River Lamprey



Entering Big Creek, OR Coast

Jason Dunham

Habitat Use: Adult Pacific Lamprey



Willamette Falls, OR



Willamette River, OR

Rock revetments



Boulders



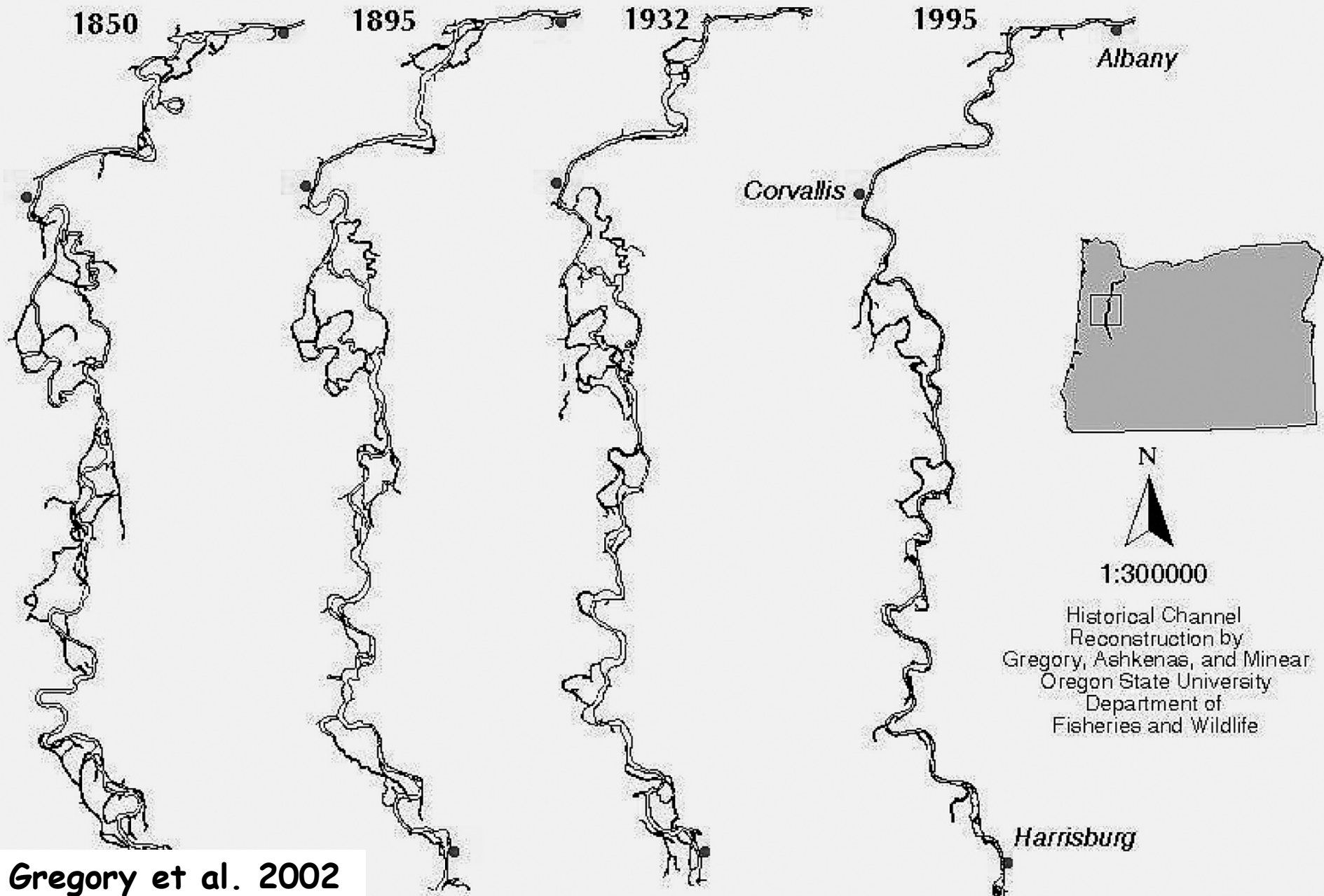
Logs



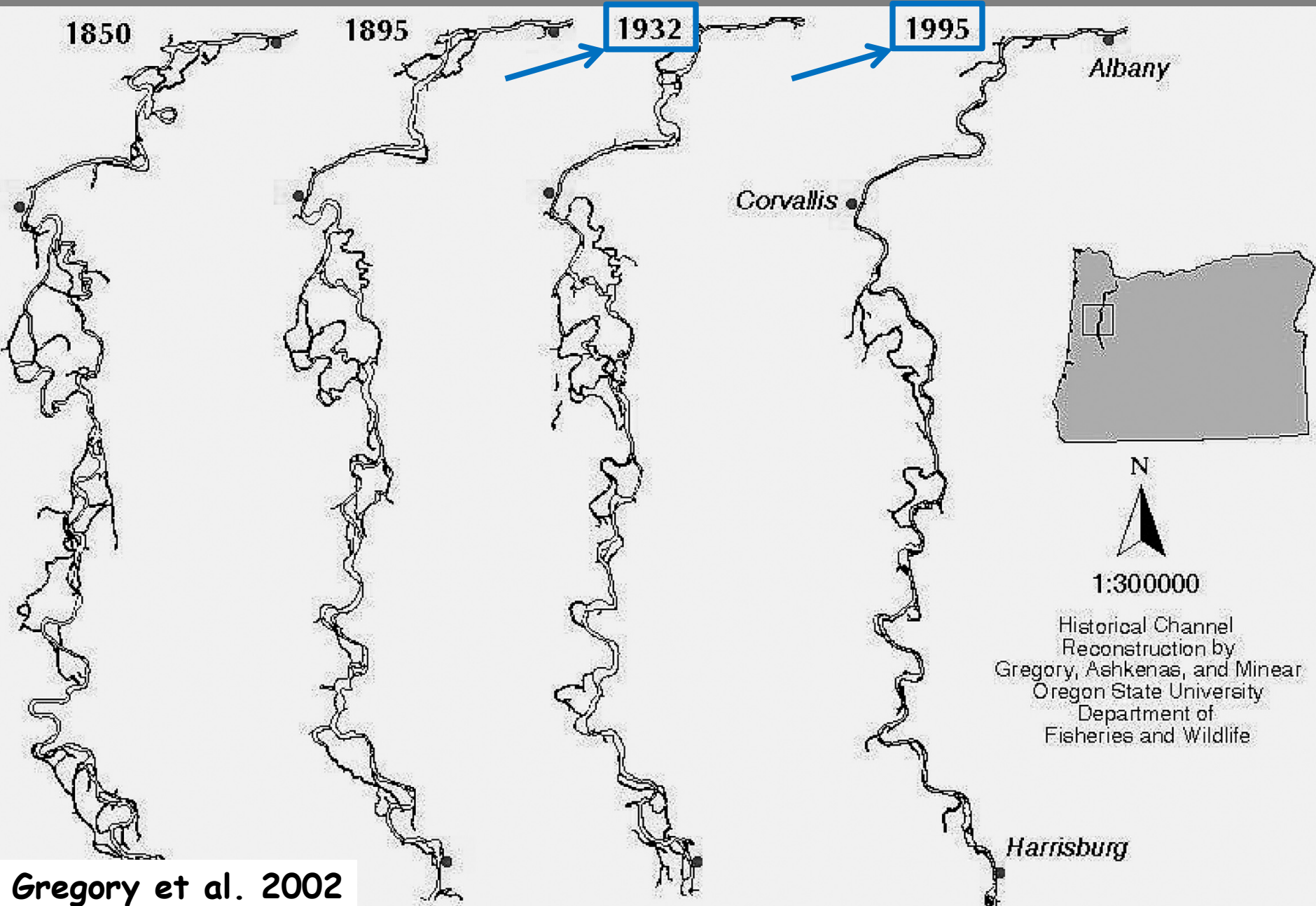
Root wads



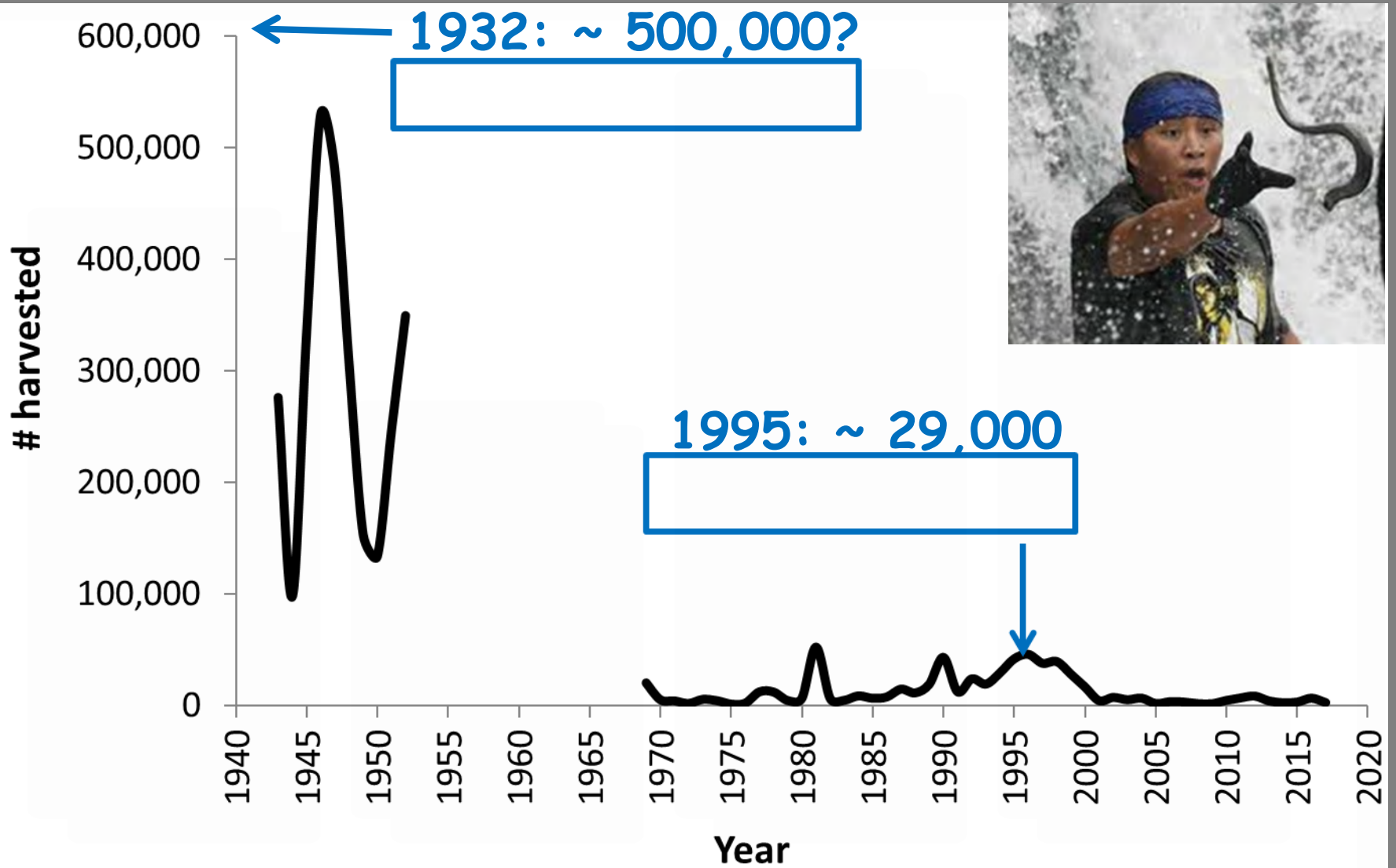
Channelization of Willamette



Channelization of Willamette



Total Lamprey Harvest (Willamette Falls)





Marys River, Willamette Basin



NAIAD.org

Jeremy Monroe © FI

Jeremy Monroe



OASIS



Alsea River, OR Coast

Monitoring



Ecological Significance



Steve Namitz, USFS



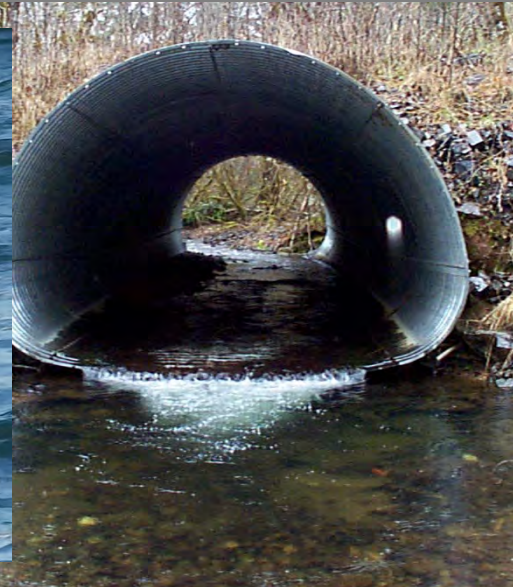
Hogg et al. 2014

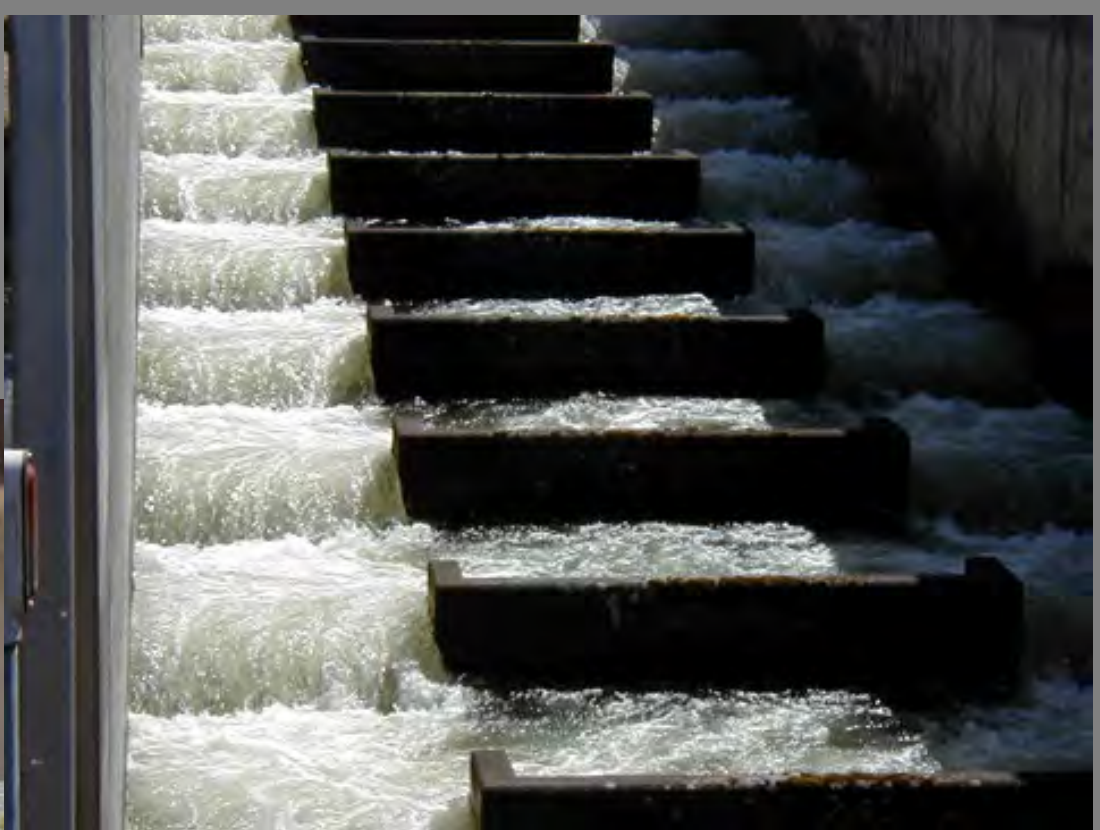


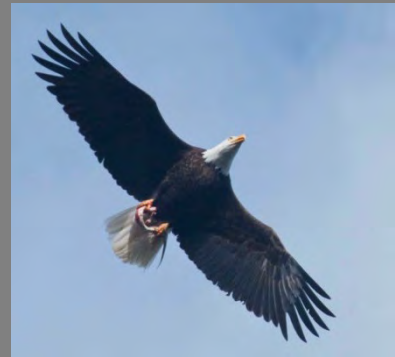
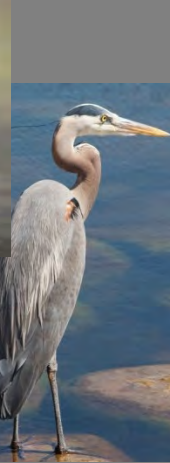
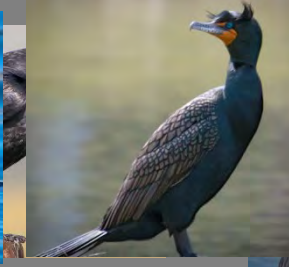
Andrew Chione



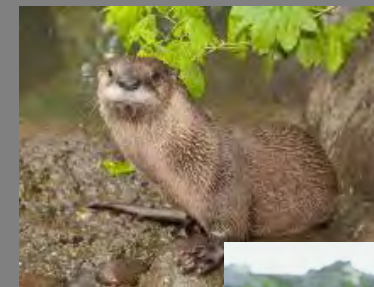
Emma Garner







46 predators





32 Prey Species





Eels at Willamette Falls. 7-15-13