

A.P. Snail Monitoring in the Siuslaw Estuary

Mapleton High School 2010



Goals:

- **Oregon State Science Standards: H.2L.2 Explain how ecosystems change in response to disturbances and interactions.**
- **Students will be able to explain the ecological and financial impact invasive species have in Oregon.**
- **Identify several invasive species in their community.**
- **Raise awareness of invasive species in their class, school, community, and state.**
- **Work in partnership with each other, community organizations, and state agencies.**

Partners:

- **Heidi Harris of the South Slough National Estuarine Research Reserve**
- **Tania Seimens of Oregon State Extension Sea Grant**
- **Liz Vollmer-Buhl of the Siuslaw Watershed Council**
- **Alix Laferriere of ODFW Marine Resources Program**

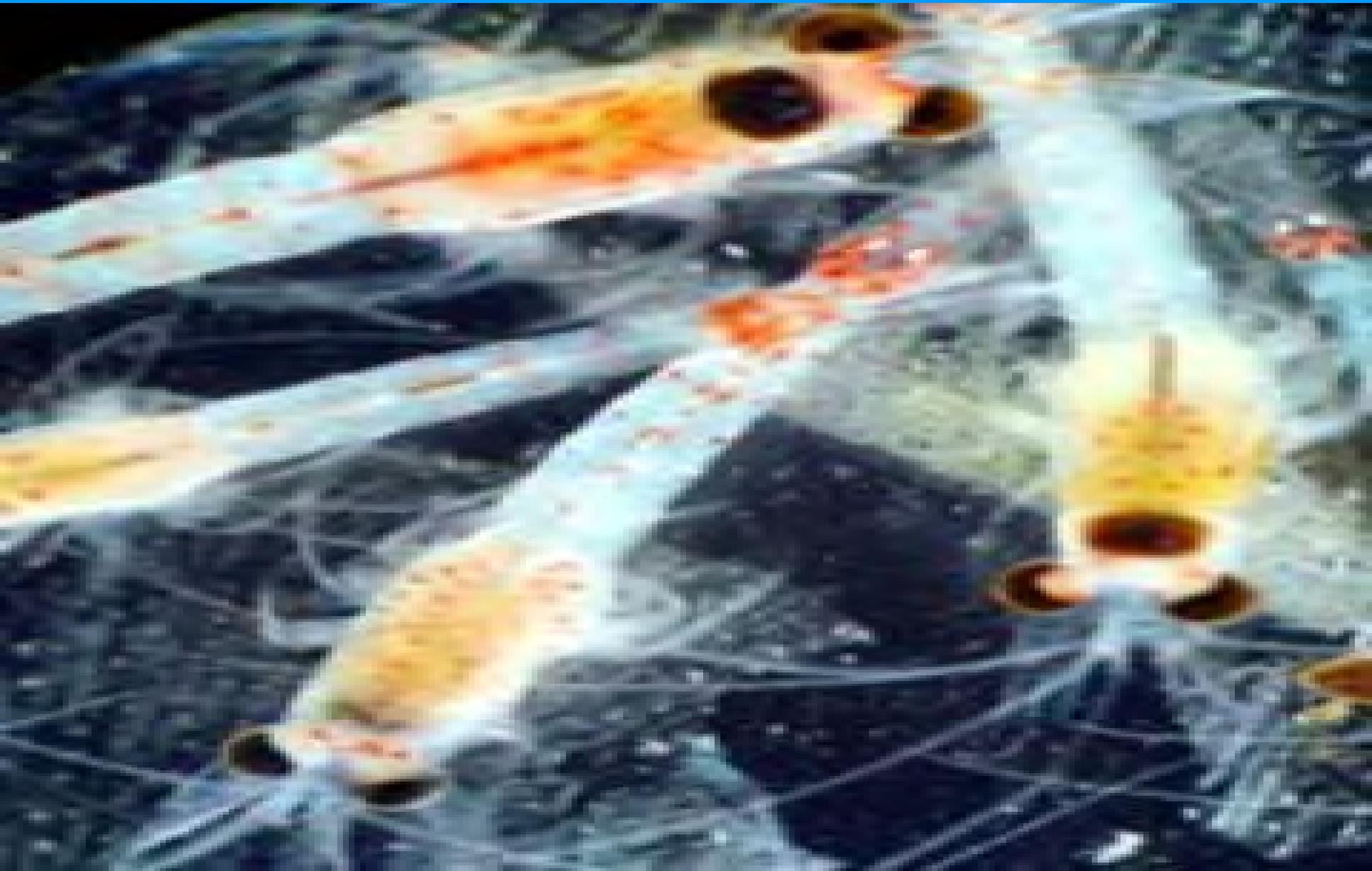
- *Assiminea parastilologica*

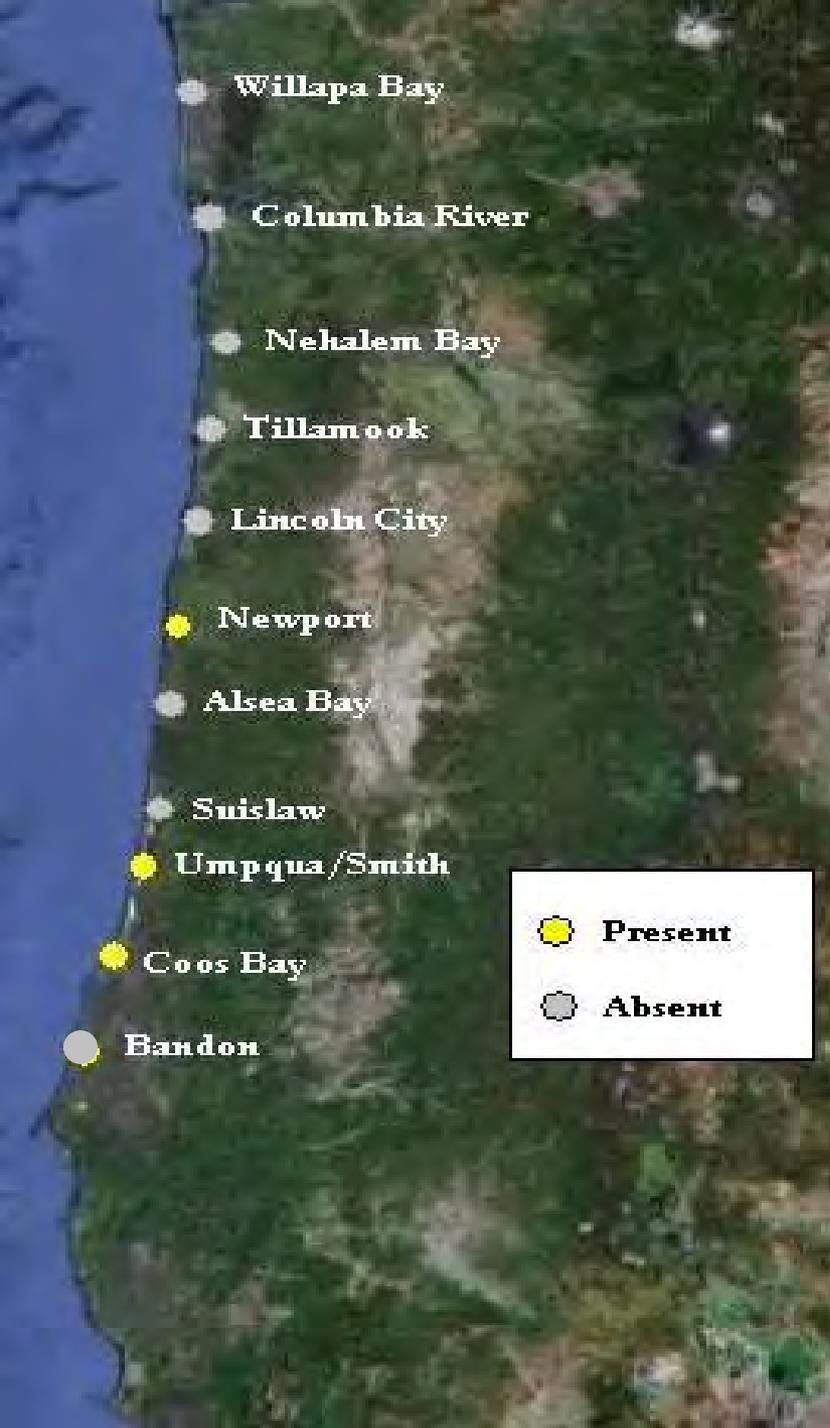


How Did It Get Here?

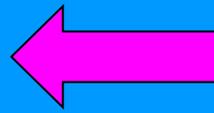


Organisms Found in Bilge Water

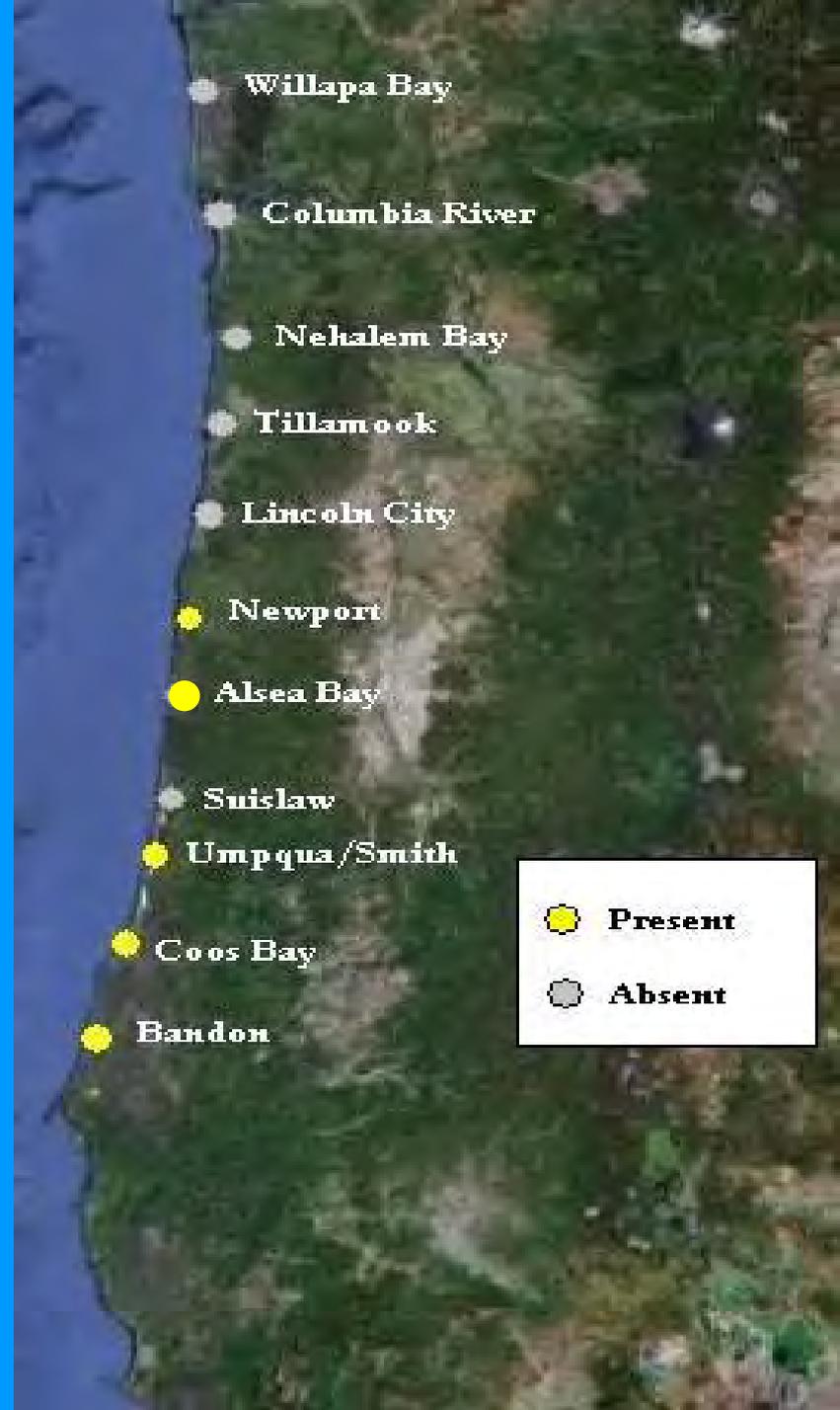
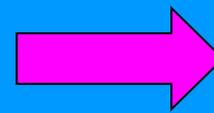




2008



2009



Snail larva can travel between watersheds on trailered boats, fishing tackle, boots, and waders.





Guild Snails

Native

Littorina subrotundata



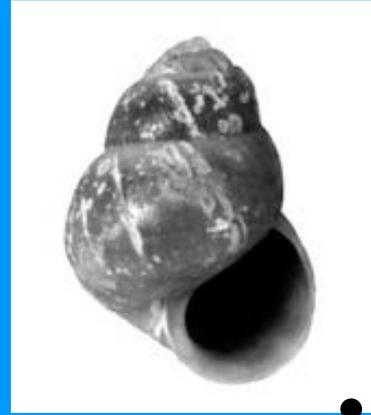
*Angustassiminea
californica*

Introduced

Myosotella myosotis
(1967)



*Assiminea
parasitologica* (2007)



- Flatter whorls
- Higher spire
- More whorls
- Dioecious
- Direct development

AC vs AP

- Fewer Whorls
- Yellowish band below suture
- Dioecious
- Globuse
- Planktotrophic



FIRE
FIRST AID
BLANKET
LOT ID OPEN

imaginary
invasive
species

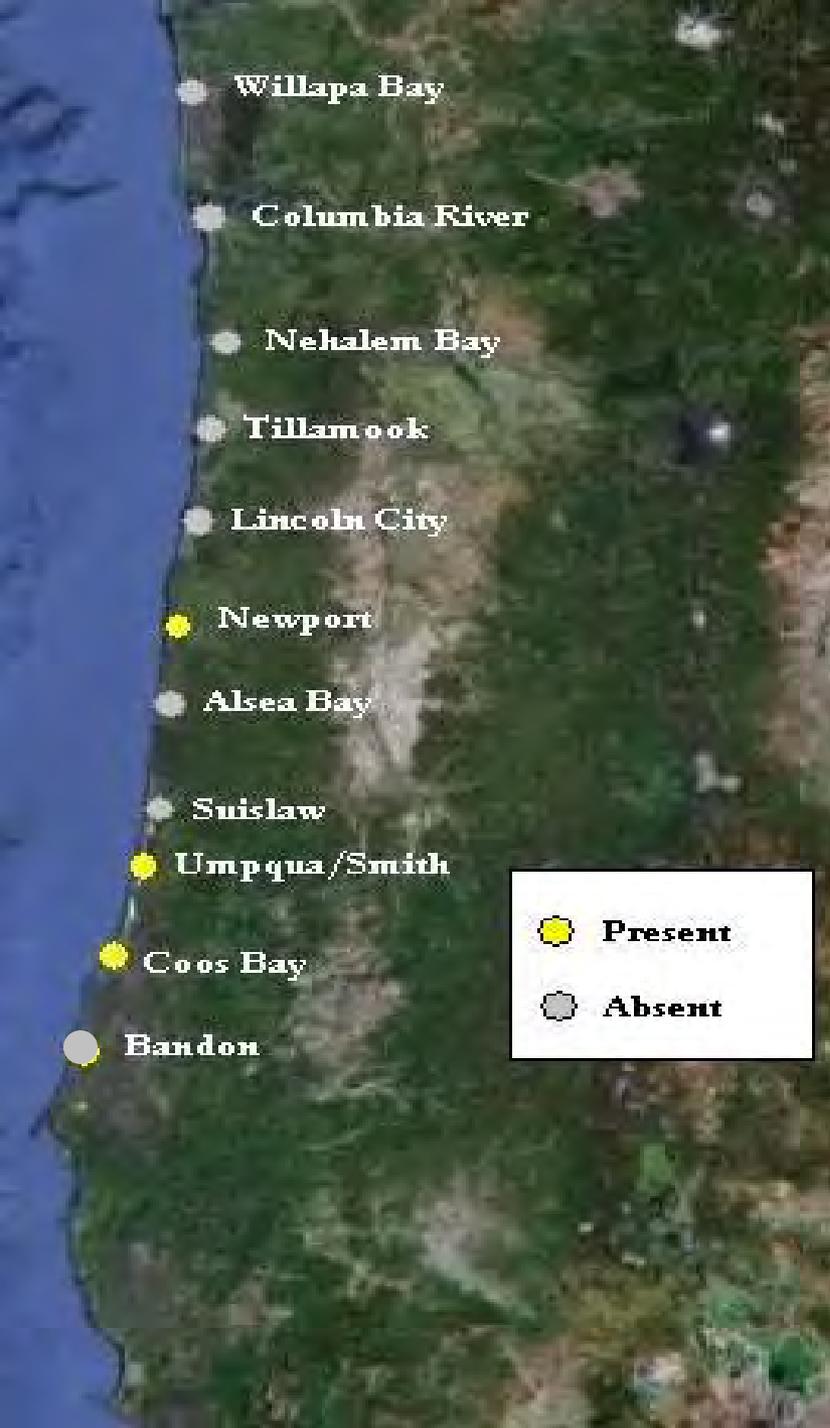
④ Chess & No Bul

Pen-wit	1635	214	528
Pa+	330	344	519.5
Pro-wit	1405	1.0	505
ss	35	424	224

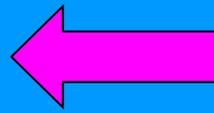


Found in Intertidal Area of Estuaries

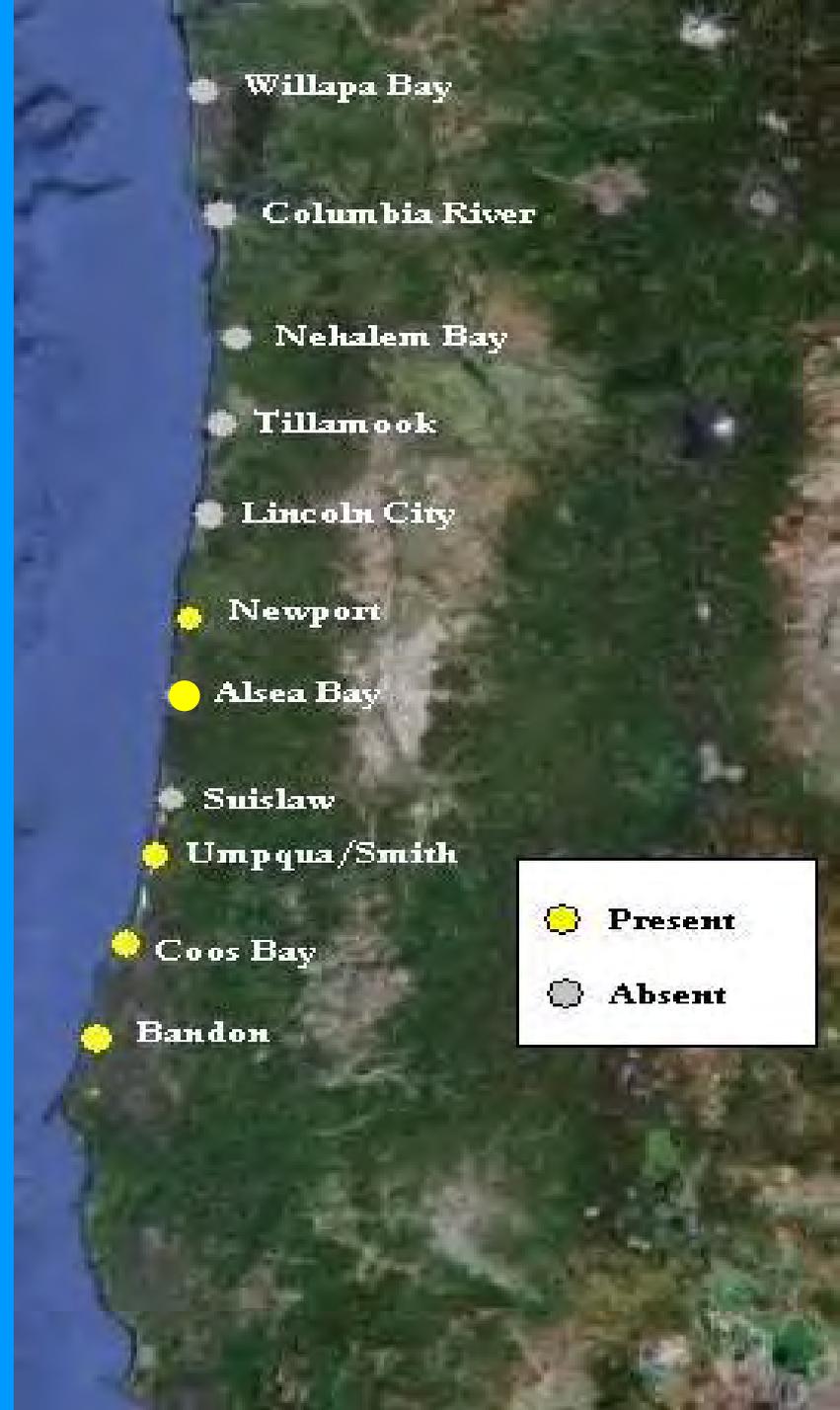
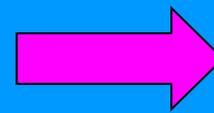




2008



2009





MAPLETON
OUTDOOR

MAPLETON
OUTDOOR

MAPLETON
OUTDOOR

MAPLETON
OUTDOOR

MAPLETON
OUTDOOR

SPORTS
PEAK









**What Did They
Learn?**



The End

