Background

OTN Pacific Arena

- Anadromous Pacific salmon
 - Economically, culturally and ecologically important
 - Biotelemetry (radio, acoustic) and biologging (temp loggers)
 - Correlational and experimental approaches

Objective

Understand how environmental, physiological and anthropogenic conditions experienced by migrating salmon influence their behaviour and survival

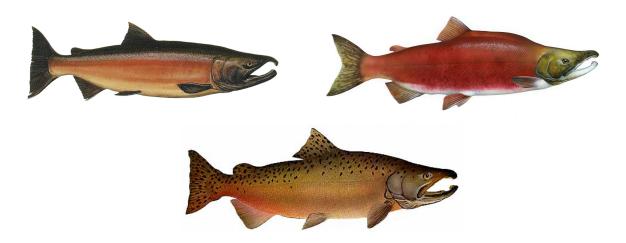
Synthesis

Tagging, handling and calibration of tags

Behaviour and survival of smolts



Behaviour and survival of adults



Summary

Four basic components of the movement ecology famework^{*} applied to the study of Fraser River salmon migrations:

- External factors (what?)
 - > Environmental, anthropogenic, tagging, handling
- Internal state (why?)
 - Physiological state, diseases
- Motion capacity (how?)
 - Migration speed, anaerobic swimming
- Navigation capacity (where and when?)
 - Smolt and adult coastal migration
- FATE implications for management