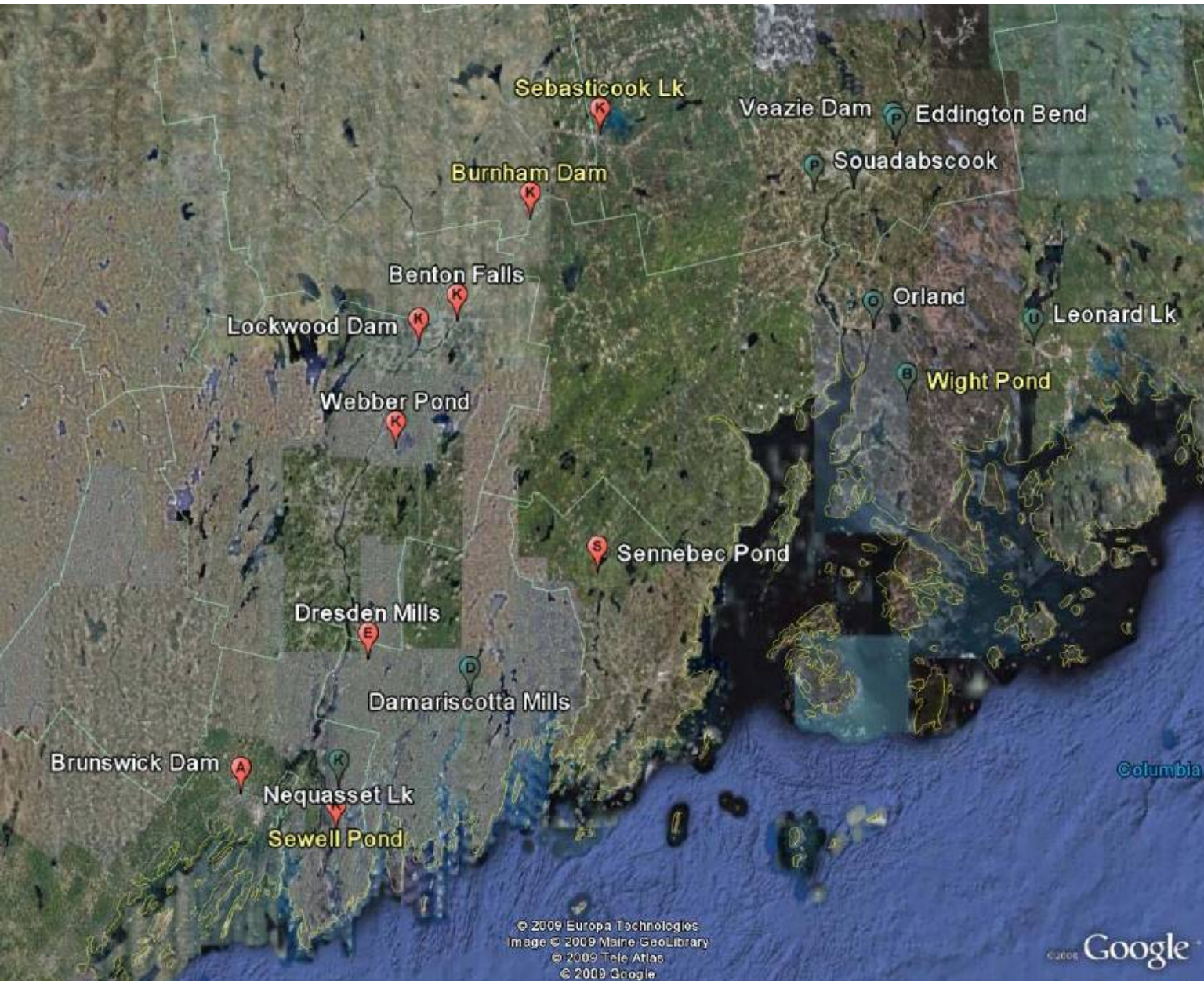


A person wearing a black jacket and waders is holding a large fish in a river. The fish is silver with a yellowish-green tint and has a dark stripe along its side. The person is holding the fish with both hands, one near the tail and the other near the head. The background shows the water of the river and the legs of another person in waders.

# University of Southern Maine Penobscot River Activity 2009

Theodore Willis  
Research Scientist  
USM

# Alewife and Blueback genetic sampling 2009



1012 samples out for processing

A=Androscoggin

K=Kennebec

E=Eastern

S=St. George

P=Penobscot

O=Orland

U=Union

B=Bagaduce

blue symbol= not stocked from Brunswick

yellow type= adults and YOY

# 2009 Genetic Sampling Lessons

- Shad
  - Very difficult to catch
  - Would like to deputize a few members of Penobscot River salmon clubs to assist in collections
- Can't be everywhere at once
  - Need better information on when runs start & end
- Juveniles may be viable for back-up collection
  - Can be collected with purse seines and beach seines
  - Less of a time constraint, however, patchy

# Alewife and Blueback genetic sampling 2010

- Target southern Maine, including:
  - Saco, Mousam, Kennebunk, Great Pond, York, Piscataqua, Presumpscot, Yarmouth
- Second year samples from select central Maine sites:
  - Veazie Dam, Orland, Union, Brunswick, Damariscotta Mills, Bagaduce, Souadabscook, Warren
- Start E-central sites:
  - Blue Hill, Mt. Desert Island, Surry, Franklin, Sullivan
- 2010 collections will be concurrent with collections for a NFWF bycatch grant
  - Graduate position available:  
<http://research.usm.maine.edu/AquaticSystemsGroup/>

# Alewife acoustic tag releases



# Chemo Pond:

## Pre-removal water quality

- In association with Atlantic Salmon Federation, as part of Leonard's Mill fish ladder construction
- Monthly collections of:
  - Zooplankton
  - Chl-a samples
  - Temp-DO profile
  - Secchi
- Worked with lake homeowner to get out on lake for sample collections
- Will continue in 2010
  - Undergraduate position (likely) available



- Thanks to:
  - USFWS Coastal Program
  - NMFS Species of Concern Program
  - Davis Conservation Foundation