

WASHINGTON SEA GRANT PROGRESS REPORT
for the period 2/1/2008 – 1/31/2009

WSG Project Number: **E/ES-12**
Project Title: Understanding Lummi perspectives of marine resource management and marine protected areas

Principal Investigator(s) and Affiliation:
Patrick Christie University of Washington, School of Marine Affairs

1. ABSTRACT ELEMENTS

OBJECTIVES

1) To establish a participatory research program in the context of a joint Northwest Indian College and School of Marine Affairs-University course; 2) To conduct participatory research on Lummi perceptions of the state of Puget Sound marine resources and reasons for declines or increases in marine resources; 3) To develop an understanding of whether marine resource management policies are effective from Lummi perspectives and, if so, under what conditions; 4) To develop social science research skills among tribal and non-tribal students; 5) To foster cross-cultural learning opportunities for tribal and non-tribal students and institutional bridges between the School of Marine Affairs-UW and the Northwest Indians College; 6) To facilitate the collaboration of Lummi leaders with non-tribal marine policy makers to proactively develop a workable marine resource management policy in Puget Sound.

METHODOLOGY

Participatory research methods will be used to engage UW and Northwest Indian College students and faculty members and Lummi tribe members in a collaborative process of problem analysis, data collection, analysis, and action taking. Specific research topics and questions will be developed jointly with Lummi leaders and students. Appropriate social science methods will be selected based on the specific research questions and student skill levels and interests. Interviews and oral histories of tribal members and textual content analysis of policy documents are likely. Results will be presented for validation by informants and tribal leaders. Based on this research, a presentation will be made to tribal and non-tribal leaders with possible development of a report to relevant institutions. Reports and analyses may be distributed more widely to Federal and State agencies, but this will require Lummi Tribal Council approval. In addition to the participatory research aspects of this project, the PIs and student assistants will engage in a formal evaluation of the process using interviews and participant observation. All social data will be analyzed using qualitative data analysis software (Atlas.ti).

RATIONALE

This project will systematically collect relevant information on Lummi perspectives and encourage them to develop analyses about specific and challenging issues. Participatory research is uniquely able to generate useful information and to begin the process to resolve problems that emerge from a sense of injustice, through a tested methodology that facilitates knowledge generation by marginalized people. Various actors including the Lummi leadership, WA

Department of Natural Resources Aquatic Reserves program, People for Puget Sound, and the National Oceanic and Atmospheric Administration MPA Center have expressed interest in this research.

2. ACCOMPLISHMENTS AND OUTCOMES

During 2008, effort focused on collecting the appropriate reading materials and creating a syllabus for the Winter 2009 course. This course was reviewed and approved by SMA and NWIC curricula committees. The reading materials were organized within an EndNote database.

A two-quarter course, entitled “Tribal perspectives on Puget Sound’s condition and management” was initiated in January 2009 and has been taught Winter and Spring 09 quarters (this report on discusses the Winter component until January 31, 2009). The NWIC students decided that this course would serve as their required science seminar. Brian Compton, NWIC instructor, was the co-instructor with Patrick Christie.

During the first quarter 12 NWIC students and 5 UW/SMA students were enrolled. The first quarter was conducted as a seminar, with tribal and non-tribal guest lecturers covering topics which they chose as priorities: 1) the ecology of Puget Sound, 2) the historic and contemporary tribal relations with Puget Sound, 3) the Boldt Decision and contemporary legal cases, 4) and contemporary Puget Sound marine policy processes. The SMA class research assistant, Rehana Lanewala, and Patrick Christie have been evaluating the course with the use of interviews and participant observation techniques.

3. IMPACTS

The students in this course began an intensive, cross-cultural learning experience. These collaboration is rare for UW and the NWIC. Institutional linkages have been created between UW and the NWIC, which will be pursued beyond this project and are in line with UW policies to improve collaborations with local tribes (<http://www.washington.edu/diversity/summit/>).

4. PERFORMANCE MEASURES

Measure 1: Economic and societal benefits derived from the discovery and application of new sustainable coastal, ocean, and Great Lakes products from the sea.

*Actual (reporting period covered by this report):*NA

Anticipated (12-month period following this reporting period): NA

Measure 2: Cumulative number of coastal, marine, and Great Lakes issue-based forecast capabilities developed and used for management.

Actual (reporting period covered by this report): NA

Anticipated (12-month period following this reporting period): NA

Measure 3: Percentage/number of tools, technologies, and information services that are used by managers (NOAA and/or its partners and customers) to improve ecosystem-based management.

Actual (reporting period covered by this report): A unique -quarter course has been implementing and enrolled NWIC and SMA/UW students in an investigation of Puget Sound policy from a tribal perspective. This course prepares students for future roles as policy makers in a diverse setting.

Depending on tribal leadership approval, student research will be presented to State, Tribal and Federal entities to inform marine resource policy making.

Anticipated (12-month period following this reporting period): The SMA student report on cross-cultural education will be shared with SMA and College of the Environment leadership to influence future curricula.

5. PUBLICATIONS

Please refer to instructions for hardcopy reprint requirements and citation formats.

A. Journal articles:

None to date.

B. Theses and dissertations: To be completed in September 2009 by Rehana Lanewala. An analysis of cross culture educational collaboration (based on interviews and participant observation during the course).

C. Book chapters:

D. Book or Monograph:

E. Paper in Proceedings

F. Proceedings or Symposia:

G. Technical reports:

H. Advisory publications (e.g. handbooks, manuals, guides):

I. Magazine articles:

J. Media Placements:

K. Other publications (e.g., videos, DVDs, software, websites):

6. PRESENTATIONS - inc. Conference (Poster or Oral), Seminar & Public
None to date.

7. PATENTS AND COPYRIGHTS
NA

8. NEW BUSINESSES OR JOBS CREATED
NA

9. LIST ALL STUDENTS SUPPORTED BY OR AFFILIATED WITH THIS PROJECT

 2 no students involved (check here if no students were involved in the project)

Student Name: Rehana Lanewala
Department: School of Marine Affairs
Major/Degree field: Marine Policy
Major Professor: Patrick Christie
Student Type (Ph.D., M.S., M.A., B.S., B.A. J.D., etc): MMA
Dissertation/Thesis title: TBD
Date of graduation (actual or anticipated): September 2009

Student Name: Jason Sieber
Department: NWIC
Major/Degree field: Biology
Major Professor: NA
Student Type (Ph.D., M.S., M.A., B.S., B.A. J.D., etc): BS
Dissertation/Thesis title: TBD
Date of graduation (actual or anticipated): TBD
Total support or affiliation period (e.g., Jan – June 2005):
Type of support (RA, research costs, conferences – list all that apply): Hourly RA
Current employment if applicable:

10. INTERACTIONS

As a part of the course, guest lecturers from King County and UW Burke Museum have been engaged. The creating of a joint UW-NWIC course required considerable attention to curricula plans and balancing institutional goals.

11. OUTREACH AND INFORMATION/TECHNOLOGY TRANSFER

Social research methods were taught as part of this class and could be applied to various questions. Students learned basic use of Atlas.ti which they will be able to use for future projects. The information generated by students, due to human subjects rules for NWIC and the Lummi, cannot be publicized without Lummi leadership approval (which will be sought in Summer 09).

12. FUTURE ACTIVITIES

The collaboration continued into the Spring 2009 and will continue in the summer 2009 with NWIC student Jason Sieber, SMA students Rehana Lanewala, and possibly SMA student Barbara Bennett. These students will be conducting research on Puget Sound and tribal perspectives.

This summer, Rehana Lanewala and Patrick Christie will collaborate on the evaluation of this course and preparing a paper for publication on the opportunities and challenges of such cross cultural educational exercises. The project ends in January 2010.

Tribal perspectives on Puget Sound's condition and management

Winter and Spring Quarters, 2009

Fridays 1-3 PM (every other week at NWIC)

1 credit for NWIC

3 credits for SMA-UW students

NWIC Location: Kwina 113



Instructors:

Patrick Christie

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(206) 685-6661

Office Hours: Fridays 9am – 10am

Brian Compton, Northwest Indian College

Willie Jones, Sr., Northwest Indian College and Lummi

Teaching Assistant:

Rehana Lanewala

rlanewal@u.washington.edu

NWIC student teaching assistant: TBD

Course Statement:

This course sequence consists of two linked courses to be offered by the NWIC and the University of Washington in Winter and Spring 2009. Ideally students will be enrolled in both quarters. The course is co-taught by Brian Compton, Willie Jones Sr, and Patrick Christie with assistance by NWIC and UW student assistants. UW students will travel to

NWIC on alternating weeks. NWIC students may travel to UW as they and their teachers deem useful. The design and conduct of the course will be participatory.

The courses will focus on ocean and coastal policy and the role of treaty tribes in marine resource management. The first course in the sequence will focus on the natural history of Puget Sound, the historical tribal relationship to the marine environment and resources, impacts of the Boldt decision and other legal cases, current issues affecting the tribes. This course will be taught primarily through readings, lectures, and guest speakers. Guest speakers will include tribal members, professors from UW or Western Washington University, employees of state agencies, representatives from the Northwest Indian Fisheries Commission, non-governmental organizations, and members of the Puget Sound Partnership.

The second course will serve as an opportunity for students to pursue human dimensions research projects and conduct a policy analysis of current marine-related issues in Puget Sound. Students will be trained in basic interviewing and observational techniques. Students will form small research groups, develop a research plan, and collect/analyze information on a topic related to tribal perspectives, rights and Puget Sound management. Students will produce a team report or presentation on their chosen topic. These policy reports will be presented to Lummi tribal leadership, the Northwest Indians Fisheries Commission, the Puget Sound Partnership leadership and other appropriate agencies.

The course will meet 2 hours every other Friday on the NWIC campus. SMA students and Professor Christie will meet on the UW campus on alternate weeks to discuss relevant readings during Winter quarter.

Learning outcomes using NWIC criteria:

As a result of this course, students will be able to:

1. Use analytical and critical thinking skills
2. Write in a variety of text forms using various credible sources
3. Use electronic library resources
4. Apply interpersonal communication skills

Course learning outcomes:

As a result of this course, students will be able to:

1. Describe the human ecology of Puget Sound in relation to salmon and coastal/marine resources
2. Summarize and discuss the history of human relations with coastal and marine resources, the change in resource patterns over time, and future policy plans for Puget Sound restoration
3. Describe the rights that Puget Sound area tribes have for marine and coastal resources
4. Design an applied research project related to Puget Sound marine policy

5. Conduct applied social/policy research
6. Analyze written materials according to an analytic framework
7. Conduct policy analyses of current coastal and marine resource policies for Puget Sound
8. Provide guidance for future coastal and marine resource policies by taking into consideration tribal rights and interests

Grading:

Winter 09:

Class discussions and participation: 45% (partially based on self evaluation)

Two short analytic briefs on readings: 45% (instructions to be provided)

Preparation of discussion questions for guest speakers: 10%

Reference materials:

Kruckeberg, A.R.1995. The Natural History of Puget Sound Country. University of Washington Press.

Boxberger, Daniel L. 2000. To Fish in Common: The Ethnohistory of Lummi Salmon Fishing. University of Washington Press: Seattle, WA.

Singleton, Sara. 1998. Constructing Cooperation: The Evolution of Institutions of Comanagement. University of Michigan Press: Ann Arbor, MI.

Nugent, Ann. 1979. The History of Lummi Fishing Rights. Lummi Communications: Bellingham, WA.

Puget Sound Partnership website and Action 2020 Plan

WA Department of Natural Resources website and documents

Whitesell et al. 2007. "Protecting Washington's Marine Environments: Tribal Perspectives." Unpublished report.

Whyte, W.F. (Ed.). 1991. Participatory Action Research. Sage: Newbury Park, CA.

Yin, Robert K. 2008. Case Study Research: Design and Methods. Sage: Newbury Park, CA.

Suttles, Wayne. 1987. Coast Salish Essays. Talonbooks: Barnaby, British Columbia.

Readings will assigned as appropriate. All readings will be distributed by email.

Class Schedule

Winter 09

Key topics, class guests, and readings are below. Class guests will be asked to give brief presentations based on a series of questions prepared by students with assistance from teachers. Students will be expected to work with teachers to design and implement the class. Most of the class time will be dedicated to discussion of readings and guest speaker reactions to questions.

January 9- First joint NWIC-UW session:

Course overview

Planning for Winter 09 quarter: Ground rules, expectations, self-introductions, guest lectures, readings, research, evaluation

January 23- Second joint NWIC-UW session

Basic natural history and oceanography of Puget Sound

- Kruckeberg book- Ch. 4

Class guest: Robert Fuerstenberg- Robert.fuerstenberg@metrokc.gov

February 6- Third joint NWIC-UW session

Salish cultural relations with Puget Sound and human ecology over time

- Boxberger book- Ch.1

Class guests: Stephanie Jolivette, Archaeology Public Outreach, Burke Museum of Natural History and Culture, UW and Sharon Kinley, NWIC

February 20- Fourth joint NWIC-UW session

A historic review of Salish marine environmental management practices, tribal rights, fisheries, and coastal development.

- Nugent booklet
- Boxberger book- Chapter 6 and Epilogue
- Skim NWIFC website

Confirmed class guests: Willie Jones Sr. and Steve Pavlic of NWIC

March 6- Fifth joint NWIC-UW session

The emergence of non-native marine policy making in Puget Sound and current techniques of marine environmental restoration and conservation. A review of current engagement of tribal interests in policy making, especially marine protected areas, to identify areas of congruence and conflict between tribal rights and non-native marine policy processes. The session will focus on the Lummi Cherry Point Usual and Accustomed Area which was recently declared an aquatic reserve by WA Department of Natural Resources.

- Skim WA DNR Aquatic Reserve website
- Tribal policy statement on MPAs (NWIFC)

Confirmed class guests: David Roberts of WADNR Aquatic Reserve Program

TBD: Terry Williams, Daryl Williams or Kit Rawson Tulalip, Puget Sound Partnership representative, Sarah Campbell at WWU (Archaeologist), representative from Lummi Natural Resources Division.

Spring 09

Spring quarter will engage students in refining project designs and conducting action research projects on a Puget Sound policy issue. Students will organize into 3-4 research groups and conduct library and social science research on a topic of their choice with guidance from teachers. A seminar will be held with Lummi leaders early in the quarter to insure their input and assistance. Students and Lummi leaders will collaborate on the development of a policy analysis intended to inform and influence policy.