



The Trans-Pacific Y to Y: Pathways to local to global learning

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Pedagogical Goals

- To improve student engagement in learning.
- To improve instructor engagement in teaching
- To provide culturally diverse and international experiences to students



Focus on Mountain Communities

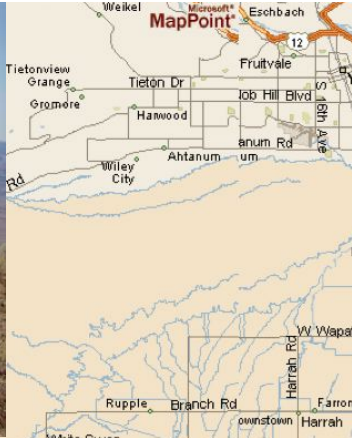


- Yangjuan, China
 - 2550 - 3600 m
 - Nuosu (Yi)
 - Subsistence agriculture and animal husbandry
 - Undergraduate, graduate & faculty research
- Loomis, WA ----
Kamloops, BC
 - Faced with similar issues
 - One week field trips for graduate & undergraduate students
- Yakama Nation, USA
 - 200 - 3742 m
 - Native American: 14 tribes & bands
 - Self-determination
 - Undergraduate field trips

Yakama Nation/Reservation



Implications



Yakama Nation Transboundary (BC - WA) Yangjuan, China



Camas Patch, Pah'to, wild horses, traditional place to harvest roots

Yakama Nation Transboundary (BC - WA) Yangjuan, China



History, culture,
learning, stories



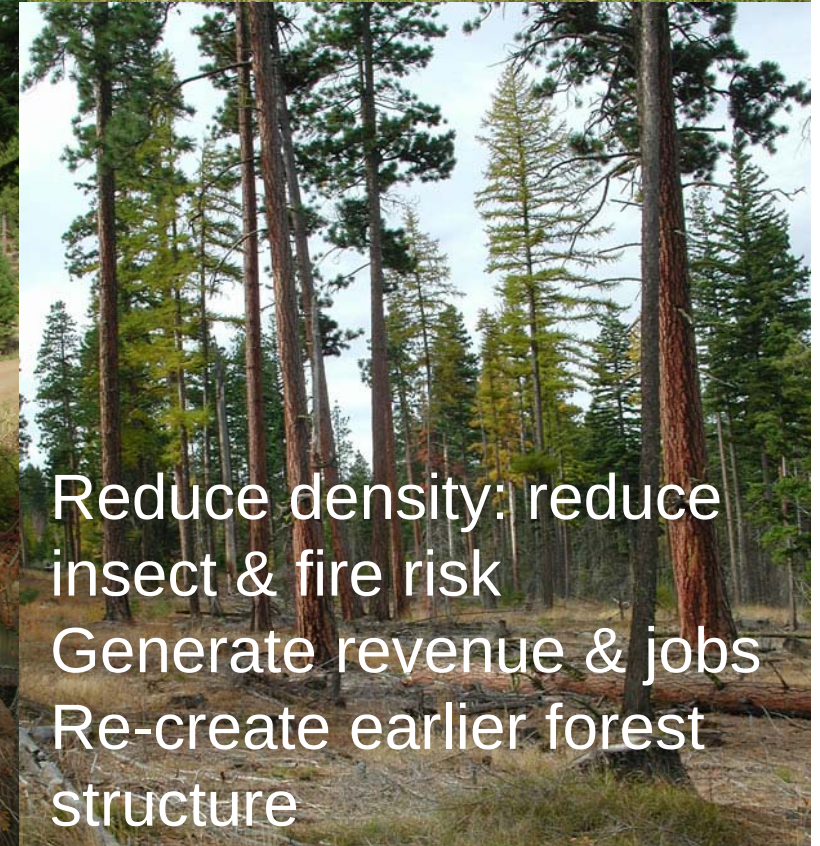
Meadow restoration:
Introduce beaver,
road removal,
raise stream bed



Stream & riparian
habitat, fish
passage



Reduce density: reduce
insect & fire risk
Generate revenue & jobs
Re-create earlier forest
structure



Students Learned

- 
- Role of culture, place and history in land stewardship
“Papatmaak Papatmaak Papatmaak”
 - “Contrast with and respect for each other.”
management
 - How tradition, culture, & stewardship are merged
 - A different culture’s perspective (respect)

Faculty Learned

- To leave the instruction to the tribal members
- To increase the amount of time on the reservation
- To prepare the students
 - Respect
 - Opportunity to learn
- To honor the student's existing knowledge

Transboundary Courses

- 2005
- 2006
- 2007



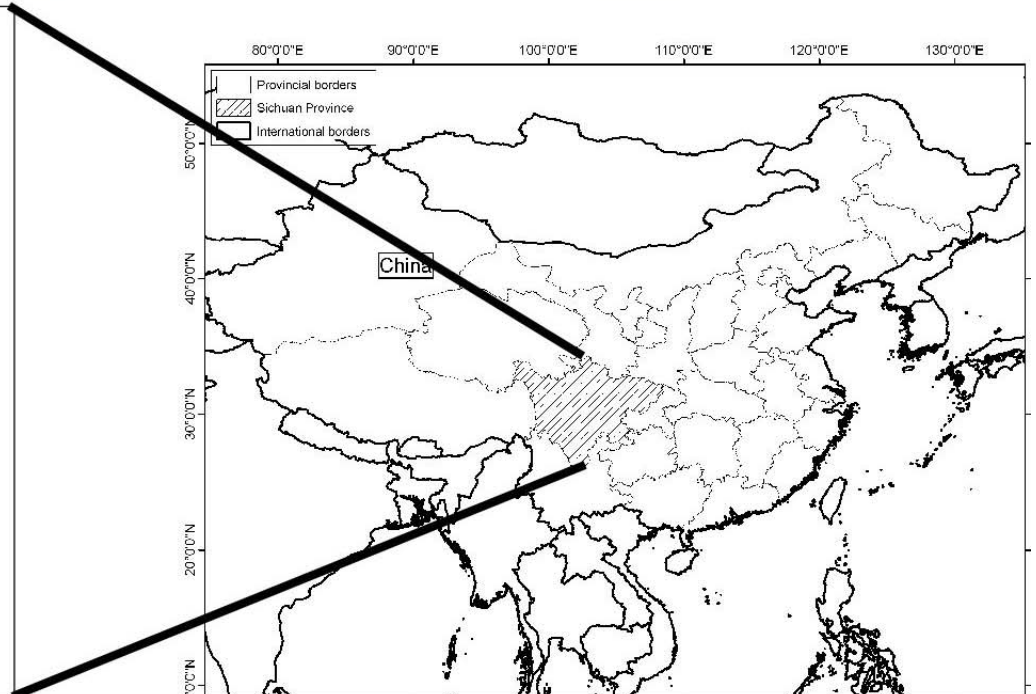
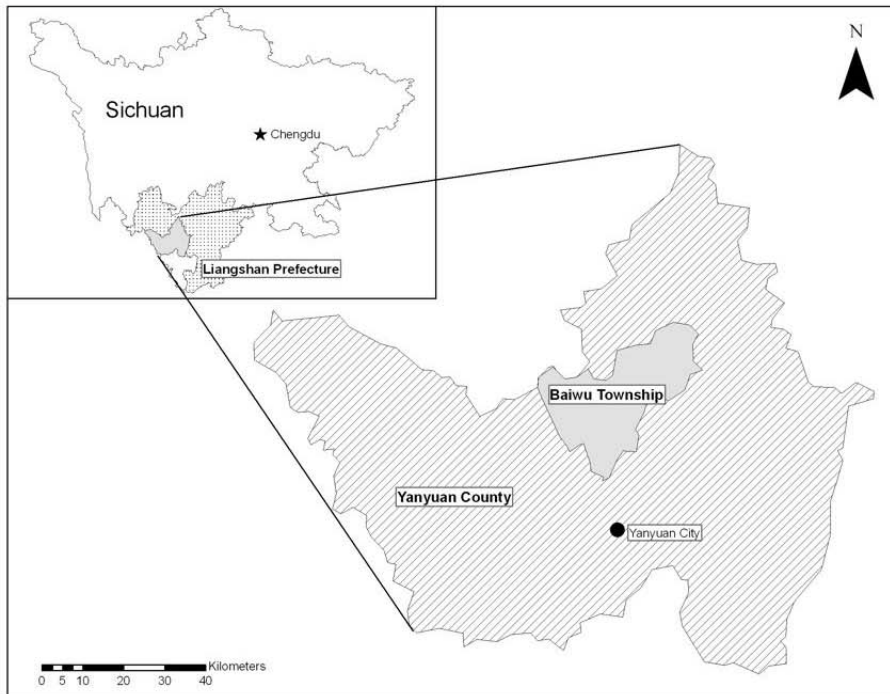
- 2009



Value to Students

- Experiential-, issue-, problem- and place-based learning
- Seeing environmental issues in their context & as interpreted by associated stakeholders
- Power of contrast and comparison: perception, regulations, solutions.
- Power of context, culture, history and place in shaping problems & solutions
- Diversity of stakeholders and ability to learn directly from them.
- Cohort building, interdisciplinary orientation

Yangjuan, China



Yakama Nation Transboundary (BC - WA) Yangjuan, China



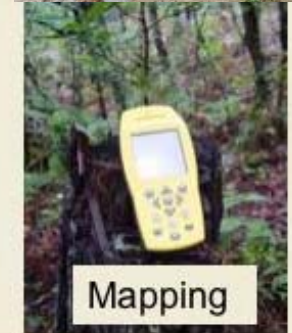
Yakama Nation Transboundary (BC - WA) Yangjuan, China



Yangjuan - Previous

- 2002-03
 - Phil Chi
 - Victoria Poling
 - Marie Tsiang
 - Tom Worker-Braddock
 - Joanne Ho
- 2003-04
 - Kayanna Warren
 - Chris Domeske
- 2005-06
 - Christine Trac

Field Work



Journal of Mountain Science Vol 4 No 4 (2007): 275-292
<http://jms.imde.ac.cn>

Reforestation Programs in Southwest China: Reported Success, Observed Failure, and the Reasons Why

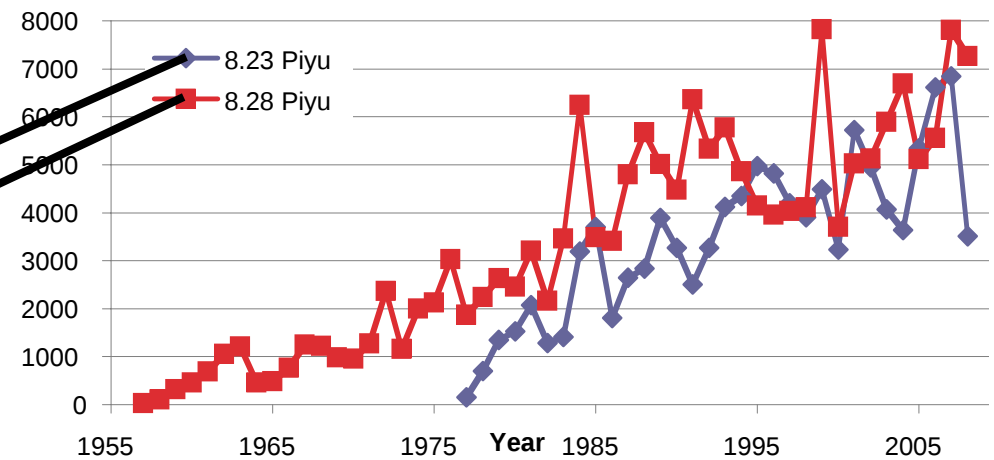
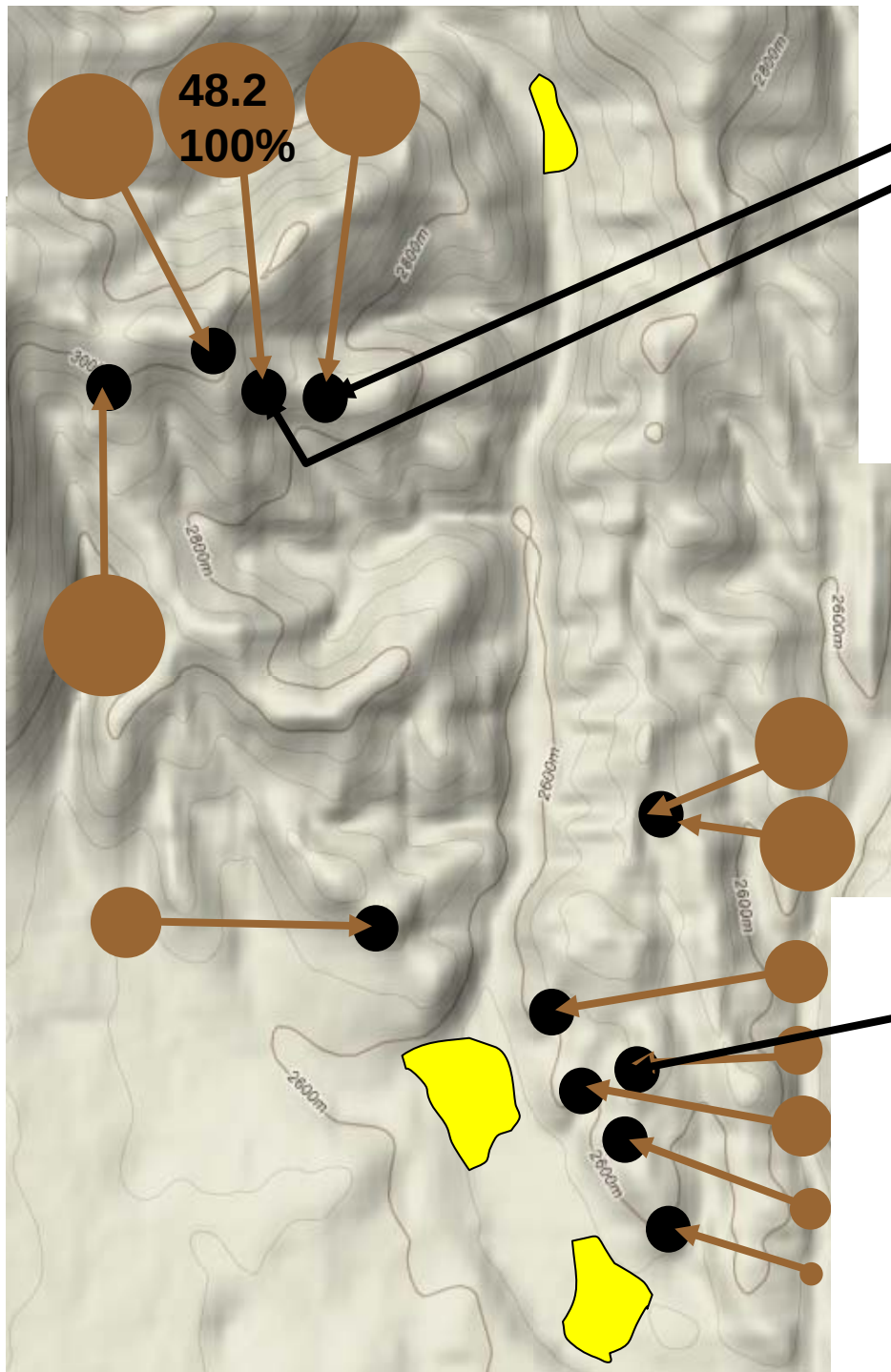
Christine Jane Trac¹, Stevan Harrell*, Thomas M. Hinckley², and Amanda C. Henck³

¹. Department of Biology, University of Washington

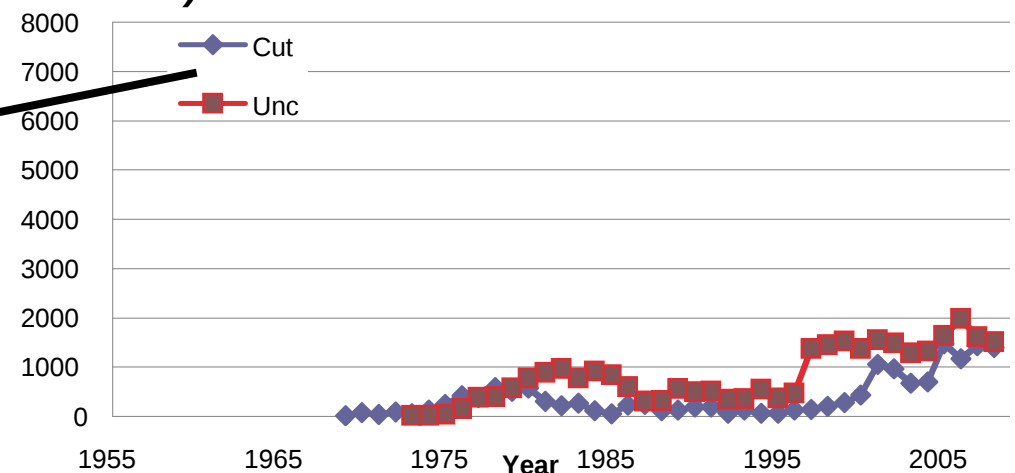
². College of Forest Resources, University of Washington

³. Department of Earth and Space Sciences University of Washington





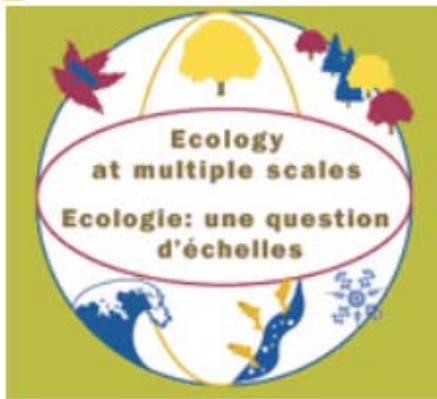
Comparison of stand basal areas between 12 different study sites. Maximum = 48.2 $\text{m}^2 \text{h}^{-1}$. Plus individual tree growth (BAI, mm^2) is shown.





90th Annual Meeting
(ESA)
August 7-12, 2005
Montréal, Canada

Held jointly with IX International Congress of Ecology (INTECOL)



April 2008

University of Natural Resources
and Applied Life Sciences, Vienna
Department of Forest and Soil
Sciences

MTNCLIM
Consortium for Integrated Climate Research
Anticipating Challenges



International Conference Mountain Forests in a Changing World

Stewardship of mountain environments: Learning from locals

T. Hinckley, S. Breslow, R. Chen, J. Combs, S.
Harrell, A. Henck, P. Rigdon, A. Robbins, A. Scanlon,
Y. Tang, J. Taylor, C. Trac, L. Urgenson, A.
Washines, Q. Yang, Z. Zeng



Project 111

Cool Mountain
Education Fund



National Science Foundation
WHERE DISCOVERIES BEGIN



UNIVERSITY OF
WASHINGTON

BOTHELL

SEATTLE

TACOMA

Lessons Learned

- Both at local and global levels, students must be able to adjust to the situation.
- Sitting in the classroom is not a substitute for real-world experiences.
- Yakama Nation, British Columbia, & western Sichuan offer very appropriate learning opportunities in ecologically and culturally rich settings.
- None of these activities is free.

Acknowledgements

- Faculty, graduate and undergraduate students from across the campus
- Linda Brubaker, Kern Ewing, Jim Fridley, Steve Harrell, Dean McManus & Reini Stettler



- NSF -IGERT
- NSF - CCLI
- UW -
Worldwide
- CFR

