

**Pacific Northwest Tribal Climate Change Project
DRAFT Meeting Notes – Wednesday, June 18, 2014**

Call Participants

- Heather Bartlett, Cow Creek Band of Umpqua Indians
- Alexander Brewer, NOAA
- Mike Cox, Environmental Protection Agency
- Jana Gastellum, Oregon Environmental Council
- Laura Gephart, Columbia River Intertribal Fish Commission
- Eliza Ghitis, Northwest Indian Fisheries Commission
- Jennifer Hanlon, Central Council of Tlingit and Haida
- Samantha Chisholm Hatfield, NW CSC
- Lisa Hayward, NW Climate Science Center
- Jennie Hoffman, Adaptation/Insight
- Carolyn Kelly, Quinault Indian Nation
- Kathy Lynn, University of Oregon
- John Mankowski, North Pacific LCC
- Don Motanic, Intertribal Timber Council
- Amy Nathanson, Umpqua National Forest
- Patmarie Nedelka, NOAA
- Oliver Grah, Nooksack Tribe
- David Redhorse, BIA
- Cheryl Shippentower, CTUIR
- Jon Treasure, Confederated Tribes of Warm Springs
- Kirsten Vinyeta, University of Oregon
- Paul Williams, Suquamish Tribe
- Sue Wotkyns, Institute for Tribal Environmental Professionals

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Upcoming PNW Tribal Climate Change Network Conference Call Dates

- July 16, 2014
 - August 20, 2014
 - September 17, 2014
 - October 15, 2014
 - November 19, 2014
 - December 17, 2014
- Call-in Information:*
Call Time: 10:00 am - 11:30 Pacific
Call-in #: 1-888-858-2144
Pass code: 5064716

Guidelines for Considering Traditional Knowledges in Climate Change Initiatives: [Draft for Review](#)

This paper was developed by an informal workgroup for consideration by the Department of Interior Climate Change Advisory Committee (ACCCNRS). Please provide comments and suggested revisions using line numbers for reference to: Gary S. Morishima, Quinalt Management Center, ph: 206.263.1406, email: morikog@aol.com or Ann Marie Chischilly, Institute for Tribal Environmental Professionals, email: Ann-Marie.Chischilly@nau.edu. The document is a work in progress. The workgroup anticipates revisiting it over time. **Both the primer and guidelines can be downloaded from ITEP's website at: <http://www4.nau.edu/itep/index.asp>.** Comments and feedback can be submitted to Gary and Ann Marie. Kathy will include time on the agenda during the July PNW Tribal Climate Change Network call to discuss comments or questions that people may have.

Sue mentioned that at the recent ACCCNRS meeting, there were positive responses from the committee members. The TEK guidelines and primer meant to be informational for the committee, but there is interest in disseminating them more broadly and to share with Climate Science Centers and Landscape Conservation Cooperatives nationally.

John mentioned that he has looked at guidelines and primer, and wondered if this has been shared with National LCC Council? Kathy and Sue will check with Gary and Ann Marie to find out what other groups it has been distributed to. John offered to draft an email to send to the National LCC Council. John also asked if this information will be presented at the First Stewards Symposium next month. Sue will check with Ann Marie.

Pacific Northwest Climate Campaign - Oregon Environmental Council (*Jana Gastellum*)

Jana Gastellum presented on efforts to coordinate a climate change campaign across the PNW region. They are working to engage an inclusive and robust set of stakeholders to think through solutions and strategies, how to address highly impacted communities. They are looking for participation from various stakeholders to tell the stories of impacts and discuss solutions. They have been working with NGOs but now we want to expand to other entities. Specifically, they are eager to engage with tribes and identify strategies to bring the tribal voice into this broad regional campaign. Anyone who is interested should contact Jana at janag@oeconline.org. There are interested in feedback and participation in regards to specific policy initiatives, and how they will tell the stories about climate change impacts and initiatives.

Paul Williams with the Suquamish Tribe asked if this climate change campaign is coordinated at all with the [Pacific Coast Collaborative](#). Jana said that this campaign does tie into the collaborative and the upcoming Oceans Summit.

Generations of Knowledge: Traditional Ecological Knowledge and Environmental Science (*Cecilia Nguyen, Oregon Museum of Science and Industry*)

Generations of Knowledge: Traditional Ecological Knowledge and Environmental Science is a project under development by the Oregon Museum of Science and Industry (OMSI) and supported by a grant from the National Science Foundation (NSF). Project deliverables include:

- 2,000 square-foot traveling exhibition
- Traveling banner exhibition
- Project website

- Youth Activity Kit

This project aims to bring awareness to the public of the “Big Idea” that indigenous traditional ecological knowledge (TEK) and Western science are valuable and relevant to society and offer complementary ways of understanding the natural world. The target audience includes Native and non-Native American youth age 11 to 14 and their families.

For the traveling exhibition, titled Roots of Wisdom, OMSI is collaborating with four different indigenous communities (Tulalip Tribes, Confederated Tribes of the Umatilla Reservation, Eastern Band of the Cherokee, and Native Hawaiians) to tell their stories about how they are using both traditional ecological knowledge and western science to address local environment and health issues. These stories serve to illustrate the universal relevance of the project’s Big Idea. The exhibit will open at OMSI June 28, 2014.

There is a new portion of the exhibit with large map of North America with pictures and descriptions of tribal restoration projects. OMSI is reaching out to tribes to find more stories to highlight. If you have suggestions/ questions email Cecilia Nguyen at CNguyen@omsi.edu.

Recap of PNW Tribal Climate Change Webinar Series

In April, May and June 2014, four webinars focused on the Pacific Northwest were offered by the Institute for Tribal Environmental Professionals (ITEP) at Northern Arizona University with support from the USDA Forest Service Pacific Northwest Research Station (RMRS), and in collaboration with the Pacific Northwest Tribal Climate Change Project at the University of Oregon, the North Pacific Landscape Conservation Cooperative, and PNWRS. The webinars, which attracted 30-70 participants each, focused on four key topics:

- Climate Change Impacts on Fisheries
- Climate Change and Marine Issues
- Climate Change and Invasive Species and Pests
- Climate Change Impacts on Forests

Webinar power point presentations and videos are being at the following website:

http://www4.nau.edu/itep/climatechange/tcc_webinars.asp. ITEP will also be developing a report about the webinars provided which will be shared with the Network once available. A second webinar series with a Pacific Northwest focus is also being planned for late 2014/ early 2015. For more information, please contact: Sue Wotkyns at Susan.Wotkyns@nau.edu or 928-523-1488.

National Tribal Climate Change Webinar Series

In June 2014, ITEP (with support from the U.S. Environmental Protection Agency) has been offering a series of four national webinars discussing impacts of climate change on tribal water resources and traditional foods, the role of traditional knowledge in climate change initiatives, and communicating about climate change. Three of these webinars took place earlier in June, attracting 120-170 participants each. The webinars focused on the following topics:

- Climate Change Impacts on Traditional Foods
- Climate Change Impacts on Tribal Water Resources
- The Role of Traditional Knowledges in Climate Change Initiatives

The last webinar in the series will be taking place Monday, June 23, 2014. See information below:

Webinar: Communicating about Climate Change – From Impacts to Solutions June 23, 2014, 11:00 a.m.-12:15 p.m. PDT

Americans are waking up to the reality of extreme weather events and are beginning to connect the dots to climate disruption. Effectively engaging the public as partners in addressing the challenge requires emphasizing local, current and personally relevant impacts and bridging to solutions. Join environmental communications expert Cara Pike, Executive Director of Climate Access, for a discussion of the latest trends in public opinion polling, how to frame the climate conversation, and best practices in climate engagement.

- Cara Pike, Executive Director of Climate Access

Please register at: <https://attendee.gotowebinar.com/register/9080883384706262530>. After registering, you will receive a confirmation email containing information about joining the webinar.

All of the webinars will be recorded and archived at:
http://www4.nau.edu/itep/climatechange/tcc_webinars.asp.

For more information, please contact:

Sue Wotkyns Climate Change Program Manager Susan.Wotkyns@nau.edu 928-523-1488

Cristina González-Maddux Research Specialist Cristina.Gonzalez-Maddux@nau.edu 928-523-878

September 2-4, 2014 ITEP Tribal Climate Change Training in Portland and North Pacific LCC Fall Tribal/First Nations Committee Meeting

ITEP will be conducting a training in Portland, September 2-3, 2014, which will be hosted by the Columbia River Inter-Tribal Fish Commission (CRITFC) at their offices in Portland. This training will provide an introduction to the process of planning for climate change impacts, from getting started to impact and vulnerability assessment to developing adaptation strategies. It is intended for tribal environmental and natural resource professionals who expect to be involved in climate change adaptation planning. Course materials and the Tribal Climate Change Adaptation Planning Toolkit will be available for download. For more information about this webinar, contact Sue Wotkyns at Susan.Wotkyns@nau.edu.

On September 4, 2014 (the day following the ITEP training), the North Pacific Landscape Conservation Cooperative (NPLCC) is planning a one-day workshop which will also be held at the Columbia River Inter-Tribal Fish Commission (CRITFC) offices in Portland. This workshop is intended to enhance provide opportunities for tribal engagement within the NPLCC and will involve tribal leaders involved in both policy and as technical staff. The workshop will have an educational component in which climate change efforts on an international, national, tribal, and local level are highlighted, as well as a component in which the NPLCC will inquire with tribes in regards to the ways they wish to get (or remain) involved in the NPLCC. For more information, contact John Mankowski at john_mankowski@fws.gov.

A save-the-date for both events will be sent out to the PNW Tribal Climate Change Network soon.

General Updates

Farm Bill—Regional Conservation Partnership Program

The [Regional Conservation Partnership Program \(RCP\)](#) promotes coordination between NRCS and its partners to deliver conservation assistance to producers and landowners. NRCS provides assistance to producers through partnership agreements and through program contracts or easement agreements. 35% of the funding is being allocated to eight Critical Conservation Areas (CCAs) designated by the Secretary of Agriculture. The Columbia River Basin has been designated as one of the eight CCAs. CCAs represent an opportunity for many stakeholders to come together at a regional level to address common natural resource goals while maintaining or improving agricultural productivity. Partners, working closely with producers and communities, define and propose projects that will achieve regional natural resource goals while also meeting complementary local conservation priorities.

The [Columbia River Basin CCA](#) has established a set of priorities. Partners interested in submitting projects for consideration within the Columbia River Basin CCA should consider the overall goal of the CCA and priority resource concerns. CCA project proposals that align with NRCS priorities may rank higher in the evaluation of proposals.

To view the announcement for program funding, please visit: [Regional Conservation Partnership Program \(RCP\) Announcement for Program Funding](#).

Application for this program is time sensitive with deadlines as follows:

- Applications must be received by NRCS before 5:00 p.m. (Eastern Daylight Time).
- Pre-proposal applications due: July 14, 2014
- Announcement of selected pre-proposals: July 28, 2014
- Full proposal applications due: September 26, 2014
- Announcement of selected full proposals: October 17, 2014

For more information on the Regional Conservation Partnership Program, please contact Kathy Ferge at Kathy.Ferge@or.usda.gov.

High school tribal forestry internship opportunity Tribal Research and Education in Ecosystem Sciences (TREES)

Salish Kootenai College Center for Tribal Research and Education in Ecosystem Sciences (TREES) just received funding through the BIA Forestry Tribal Youth Initiative to fund a national network of 20 high school interns this summer. Here is how it works: Tribes may apply for one or two interns that are either current high school students or are under the age of 24 and are attending college as non-forestry majors (but might be interested in switching). For each intern, the tribal forestry program will receive a direct payment of \$5,000 for intern salary and an additional \$1,000 for expenses and equipment. In addition, if the intern decides to enroll in any college forestry program in the next two years, SKC TREES will award him/her a one-time \$2,000 scholarship. Applications must come from tribal forestry or BIA partners but are very simple: please provide name, age and tribal affiliation of proposed intern and a brief description of what the intern will be doing. Preference will be given to applicants that focus on introducing the intern to key activities in forest management.

If you have any questions, please email Adrian Leighton (adrian_leighton@skc.edu) or call Adrian at ([406-885-2787](tel:406-885-2787)). A total of 20 interns will be supported during this summer, and applications can begin immediately, and will be considered until all positions are filled. Also, please pass this email on to

others that may be interested. We are very excited to "host" this opportunity and hope that it helps build the career ladder in forestry for BIA and Tribes.

September 9-10, 2014 Fifth Annual Pacific Northwest Climate Science Conference (Seattle, WA)

Registration is now open for the Fifth Annual Pacific Northwest Climate Science Conference. The PNW Climate Science Conference brings together more than 250 researchers and practitioners from around the region to discuss scientific results, challenges, and solutions related to climate impacts on people, natural resources, and infrastructure in the Pacific Northwest. It is the region's premier opportunity for a cross-disciplinary exchange of knowledge and ideas about regional climate, climate impacts, and climate adaptation science and practice.

Conference participants include policy- and decision-makers, resource managers, and scientists from academia, public agencies, sovereign tribal nations, non-governmental organizations, and the private sector. The conference format will include invited speakers, plenary sessions of broad interest, and more targeted concurrent sessions. A poster session/hosted reception is also planned at the end of the first day. Anticipated concurrent sessions include Pacific Northwest hydrology and water resources; terrestrial and aquatic ecosystems; the built environment; human health; agriculture; and shorelines, oceans, and coasts. Presentations and posters within each session will span a range of topics from science to vulnerability assessment and implementation of adaptation actions. A draft conference agenda will be available in mid-July.

Registration details are available here: <http://pnwclimateconference.org/registration.html>. A limited number of student and tribal registration scholarships are available upon request. See the registration page for more information. Stay tuned for further details regarding the conference program. In the meantime, please contact Lara Whitely Binder (lwb123@uw.edu) with any questions about the conference.

October 28-30, 2014, Climate-Smart Conservation Class (Olympia, WA):

NPLCC is paying for class. Register and pay for travel. Limited number of seats, so apply early. Popular class providing technical details around CC vulnerability. Contact Jennie Hoffman with additional questions/comments.

<http://training.fws.gov/nctcweb/catalog/CourseDetail.aspx?CourseCodeLong=FWS-ALC3195>

Northwest Forest Plan - 20-Year Monitoring Report on the Effectiveness of Federal-Tribal Relations

Under the Northwest Forest Plan, there is a requirement to monitor the state of Federal-Tribal relationships as exercised during the implementation of Plan actions and initiatives. Monitoring takes place every five years and culminates in a report, the last of which took place at the 15-year mark (1994-2008) and was published in 2011. The 20-year monitoring effort is scheduled to occur in 2014, and is relevant to federally recognized tribes with lands, tribal headquarters, and/or treaty rights falling within Northwest Forest Plan boundaries in Washington, Oregon, and Northern California. Kathy Lynn and Kirsten Vinyeta are carrying out the 20-year monitoring effort, and Kathy will continue to provide regular updates on this effort during Network calls. If you have questions or comments regarding the upcoming monitoring, please contact Kathy (kathy@uoregon.edu). To find out more about the Northwest Forest Plan's tribal effectiveness monitoring, or to download the 15-year monitoring report, please visit the following link: <http://www.reo.gov/monitoring/reports/15yr-report/tribal/index.shtml>

Tribal Climate Change Funding Guide

We are frequently updating the tribal funding guide. The Funding Guide is intended to provide up-to-date information on grants and programs that may assist tribes in addressing climate change through a broad range of sectors. To access the funding guide, please visit <http://envs.uoregon.edu/tribal-climate/>

Education and Curriculum on Ocean Acidification in Washington State

Paul Williams mentioned that they are continuing to move forward with efforts to get ocean acidification curriculum into the K-12 education system in Washington state. There was a recommendation put forward for education, but no funding for teacher training. Getting the teacher training going is critical. Paul asked if anyone has ideas for funding to train teachers to utilize this climate change curriculum. Contact Paul Williams at pwilliams@suquamish.nsn.us with any suggestions. Sue suggested contacting the training coordinator with the Institute for Tribal Environmental Professionals mansel.nelson@nau.edu.

****Events, Webinars and Informational Resources****

courtesy of David Patte, david_patte@fws.gov

June 25, 2014, 10 am Pacific / 11 a.m. MTN Tribal Renewable Energy Series Webinar: Net Metering

The DOE Office of Indian Energy, the DOE Office of Energy Efficiency and Renewable Energy's Tribal Energy Program, and the Western Area Power Administration will present the next Tribal Renewable Energy Series webinar on Net Metering, on Wednesday, June 25, 2014, from 11:00 a.m. to 12:30 p.m. Mountain time. This webinar will focus on the services provided by utility net metering and their importance in making projects cost-effective. There is no charge to attend, but registration is required. [Register for the webinar.](#)

July 9, 2014, Tribal Leader Forum: Biomass Renewable Energy Opportunities and Strategies, Bonneville Power Administration, Portland, Oregon

The ninth in a series of planned DOE Office of Indian Energy-sponsored strategic energy development forums, this Tribal Leader Forum will focus on biomass development opportunities, technology updates, resource assessment, the unique aspects of biomass project development, and economic development opportunities for biomass resources. The forum will give tribal leaders and staff an opportunity to interact with other Tribes, federal agencies, and industry to learn more about biomass energy development. The forum is specifically designed for, and limited to, elected tribal leaders, tribal executives, and tribal staff. There is no cost to attend, but registration is required by July 3, 2014. Register by emailing indianenergy@hq.doe.gov. [Download the agenda.](#)

Regional Tribal Renewable Energy Project Development and Finance Workshops

The DOE Office of Indian Energy and the Tribal Energy Program, with support from the National Renewable Energy Laboratory, are hosting three interactive workshops this summer that will walk participants through the process for and potential pitfalls of developing community-, facility-, and commercial-scale renewable energy projects on tribal lands. The workshops are specifically designed for, and limited to, elected tribal leaders, tribal executives, and tribal staff.

July 10-11, 2014. [Community- and Facility-Scale Projects](#), Bonneville Power Agency, Portland, Oregon
July 29-31, 2014, [Commercial-Scale Projects](#), National Renewable Energy Laboratory, Golden, Colorado
August 26-28, 2014, [Community- and Facility-Scale Projects](#), Prior Lake, Minnesota
Registration and Lodging: There is no cost to attend the workshops, but advance registration is requested. Participants will be responsible for their own lodging, meals, and travel costs. [Register now.](#)


July 8-10 Climate-Smart Conservation Class in Shepherdstown, WV at the National Conservation Training Center. This course is based on a forthcoming guide to the principles and practice of Climate-Smart Conservation. This publication is the product of an expert workgroup on climate change adaptation convened by the National Wildlife Federation in collaboration with the FWS's National Conservation Training Center and other partners. The course is designed to demystify climate adaptation for application to on-the-ground conservation. It will provide guidance in how to carry out adaptation with intentionality, how to manage for change and not just persistence, how to craft climate-informed conservation goals, and how to integrate adaptation into on-going work. Conservation practitioners and natural resource managers will learn to become savvy consumers of climate information, tools, and models. For further details, see:<http://nctc.fws.gov/NCTCWeb/catalog/CourseDetail.aspx?CourseCodeLong=FWS-ALC3195>

First Stewards 2014 Symposium, July 21-23, 2014, Washington, D.C.

The First Stewards 2014 Symposium will take place in Washington, D.C., July 21-23. This year the Symposium's theme is United Indigenous Voices Address Sustainability: Climate Change & Traditional Places. The event will include five panels composed of representatives from each region, tribal leaders and tribal and Western scientists who will examine how native people and their cultures have adapted to climate change for hundreds to thousands of years, and what their future—and that of America—may hold as the impacts of climate change continue. Specifically, the panels will include:

- Cultural & Food Security
- Rights & Responsibilities
- Traditional Natural Resources Management Practices
- Cultural Resource Damage Assessments
- Moving Forward Panel

For more information on the 2014 Symposium, please visit: <http://www.firststewards.org/>
If you are interested in attending, please contact whitenergroup@gmail.com.

July 28-Aug1, NCTC Class: Addressing Climate-related Uncertainty for Natural Resource Management. This course provides a foundation in structured decision making in the context of natural resource management problems addressing climate-related uncertainty. Anchorage, AK.  [Click here to learn more](#)

Aug 7, 10-11am (Pacific Time) A Climate-Smart Approach to Adaptive Management of North-central California Coast and Ocean Habitats, Species and Ecosystem Services, Speaker: Sara Hutto - Gulf of the Farallones National Marine Sanctuary Climate-Smart Adaptation Project Coordinator, OneNOAA webinar, [click here for more info](#)

August 12-14 Course: Water Temperature Impacts under Climate Change, Boulder, CO. Geared towards water resource practitioners and researchers working with current trends and future projections of climate change effects on water temperatures of inland streams and rivers. For more information, visit:<http://courses.comet.ucar.edu/course/info.php?id=136>.

Sept 9, 11am-noon (Pacific Time) Climate Change Adaptation for an at Risk Community - Shaktoolik Alaska, Speaker: Terry Johnson, Alaska Sea Grant Marine Advisory Program, OneNOAA webinar, [click here for more info](#)

Oct 23-24, Wash DC, National Workshop on Large Landscape

Conservation: <http://www.largelandscapenetwork.org/2014-national-workshop/>

Feb 17-19, 2015: [Great Basin Consortium Conference](#), Boise State University, Idaho

May 12-15, 2015: 2nd National Adaptation Forum, <http://nationaladaptationforum.org/>
[Climate Change Science and Modeling: What You Need to Know \(Web-based, On Demand\)](#)

This is the first education module in a series of three developed by the USDA's Climate Change Resources Center. It gives a brief overview of the climate system, greenhouse gases, climate models, current climate change impacts, and future projections. There is a 14-question activity at the end of the module, and users who complete the activity will receive a printable certificate with their name and the date completed. The expected time commitment for this module is about 20 minutes, plus the activity. Time spent exploring the many outward links and interactive features within the module will be at the user's discretion.

NOAA Webinar Series on Ocean Acidification:

See <http://oceanacidification.noaa.gov/AreasofFocus/EducationOutreach/SOARCEWebinarSeries.aspx>

COMET Program Makes Available Recorded Presentations from 2013 Climate Variability and Change

Course: The University Corporation for Atmospheric Research's COMET Program has made available recorded presentations from its 2013 offering of the Climate Variability and Change Virtual Course. The five-day course provided extensive background on climate variability and change with emphasis on effective communication skills. The course is free and open to anyone. Content is geared towards those who already understand the foundations of climate science. To access course presentations see: https://www.meted.ucar.edu/training_module.php?id=1034#.U3oYWDdOUuU

Monthly: NOAA Hosts Monthly Webinar Series on Climate Information for Managing Risks in Water Resources

Working with collaborators such as the U.S. National Integrated Drought Information System, Water Research Foundation, Water Environment Federation, Water Environment Research Foundation, and American Water Works Association, the Sectoral Applications Research Program in NOAA's Climate Program Office is hosting a series of webinars the third Thursday of every month. <image001.png>For a listing of webinars, visit [this site](#).

Interactive Education Module on Climate Change Science and Modeling The Climate Change Resource Center (www.fs.fed.us/ccrc/) has released a new interactive online education module on basic climate change science and climate modeling. The module was designed to make climate change science approachable to the general public and to provide flexibility for busy professionals, but also to facilitate a greater level of understanding and depth through interactive features. It will help the Forest Service continue to make progress on the Climate Change Scorecard by giving all employees access to a new education option. The module, "Climate Change Science and Modeling: What You Need to Know", gives a brief overview of the climate system, greenhouse gases, climate models, current climate impacts, and future climate projections. Interactive features allow users to control their learning experience, with opportunities to explore outside links, and learn definitions and relevant facts. The main material is followed by an activity specific to the user's geographical region, and completing the activity will generate a personalized certificate. The climate change module is available at www.fs.fed.us/ccrc/climate-basics/education.shtml.

Pacific Institute for Climate Solutions Offers Online Climate Courses: Climate Insights 101 is a short course series designed to provide users with an in-depth understanding of climate science and related issues. New courses in 2014 focus on mitigation. [Read more...](#)

December 2-3, 2014 Climate Change and Indigenous Peoples Conference - Save the Date!

The University of Oregon will host the 3rd Annual Climate Change and Indigenous Peoples Conference and Student Symposium on December 2-3, 2014. The University will welcome two distinguished keynote speakers to the conference: Dr. Myrna Cunningham Kain and Patricia Cochran. Dr. Cunningham Kain is an internationally renowned advocate for Indigenous peoples' rights and women's rights who has served Indigenous peoples in countless fashions, most recently as chair of the United Nations Permanent Forum on Indigenous Issues (2011-2013). Patricia Cochran is currently Executive Director of the Alaska Native Science Commission (ANSC), an organization that works to create links and collaborations among scientists, researchers and Alaska Native communities.

For more information on the Conference, please visit: <http://ccip.uoregon.edu/>