2014 CDFW Climate College
Lecture #2

Title: **Climate impacts on California's marine waters**
Speaker: Nate Mantua, NOAA Southwest Fisheries Science Center
Date: March 10, 2014 (Monday)
Time: 1:00PM – 3:00PM
Location: NOAA/NMFS Southwest Fisheries Science Center, 110 Shaffer Road, Santa Cruz, CA 95060
WebEx: Lecture also available via WebEx. We encourage CDFW staff participating remotely to watch the lectures together by reserving a conference room with DSL. The powerpoint presentation will be posted in advance to minimize interruption for remote users due to WebEx or bandwidth complications.

Registration for Lecture #2

CDFW STAFF CLICK HERE TO REGISTER - Please register at least two days prior to the lecture.
ALL OTHER PARTICIPANTS: If you are not a CDFW staff member please provide your name, email address, organization, and if you intend to participate in-person or via WebEx.

Speaker Biography:

Nate Mantua is a research scientist and the team leader for NOAA's Landscape Ecology Team at the Southwest Fisheries Science Center in Santa Cruz, CA. His research has focused on understanding the dynamics and consequences for variations in Pacific climate due to natural and anthropogenic causes, and climate impacts on natural resources that include Pacific salmon and marine ecosystems. He worked at the University of Washington from 1995-2012 where he served as the Co-Director for the Climate Impacts Group, an interdisciplinary research team dedicated to increasing climate resilience for people and nature, and was an associate professor in the School of Aquatic and Fishery Sciences. He has a B.S. degree from the University of California at Davis, a PhD from the University of Washington in Atmospheric Sciences, and held a postdoctoral fellowship at the Scripps Institution for Oceanography in La Jolla, CA.

Presentation Abstract:

This lecture will provide an overview of historical patterns and future scenarios for climate and ocean conditions in California. This will begin with the average year for California's marine waters in terms of wind, weather, currents, ocean temperatures, and coastal fog, followed by a discussion on variability between years and decades, and how regional variability is related to larger scale climate patterns like the El Niño-Southern Oscillation, the North Pacific Gyre Oscillation, and the Pacific Decadal Oscillation. The lecture will end with a brief summary of future scenarios for California's climate and marine waters that draws on the results of climate modeling experiments.

Optional additional webinars:

- U.S. Fish and Wildlife Service Climate Academy – archived webinars

ITEP is planning 2 **Tribal Climate Change Webinar Series** for this spring: 1) a 4-part webinar series, tentatively in March and April, will focus on impacts of climate change in the Pacific Northwest. We are collaborating with Kathy Lynn at the University of Oregon and the USDA Forest Service Pacific Northwest Research Station and have received input from the Pacific Northwest Tribal Climate Change Network; and 2) a 4-part webinar series in May and June, intended for a national tribal audience, will focus on climate change impacts, traditional knowledge and climate change, and communicating about climate change. More information about the two webinar series will be available in the coming months.

The **Events page on the Tribes & Climate Change website** is in calendar format: www4.nau.edu/tribalclimatechange/events.asp.