

REDWOOD CREEK NEAR BLUE LAKE, CA
 (USGS Station 11481500)

Click on a link to access the report PDF for each vital sign:

VITAL SIGN	PERIOD OF RECORD	DATA SUMMARIES IN REPORT
Stream Flow (Report PDF)	1953-2010	<ul style="list-style-type: none"> Annual Peak Flows Mean Monthly Discharge Cumulative Departure from Mean Annual Discharge Timing of Runoff Maximum and Minimum 7-Day, 30-Day, 90-Day Discharge Recurrence Intervals and Flow Duration
Stream Temperature (Report PDF)	1997-2011	<ul style="list-style-type: none"> Weekly Temperature 1997-2011 Hourly Temperature 2000-2011
Juvenile Salmonid Population Abundance (Report PDF)	2000-2010	<ul style="list-style-type: none"> 0+ Chinook Salmon 1+ Steelhead Trout 2+ Steelhead Trout

Jessica Weinberg/National Park Service

Website Links Salmon Stream Vital Signs of Point Reyes, Golden Gate and Redwood Parks

In cooperation with the National Park Service, WERC scientist **Mary Ann Madej** has compiled NPS Vital Signs data for the Klamath (KLMN) and San Francisco Bay Area (SFAN) networks of national park units onto a one-stop resource. The graphs visualize long-term records, such as stream discharge at 28 different stream gages, as well as weather, stream temperature and salmonid counts for some streams. The **PRISM Climate Group** at Oregon State University contributed information on local climate parameters. The website is part of a project with USGS Western Geographic Science Center scientist **Alicia Torregrosa** and USGS Forest and Rangeland Ecosystem Science Center scientist **Andrea Woodward** to create a systems dynamics model that simulates the freshwater portion of the coho salmon (*Oncorhynchus kisutch*) lifecycle. <http://www.werc.usgs.gov/project.aspx?projectID=229>

NEW JOURNAL ARTICLES

Lafferty, KD. 2012. **Biodiversity loss decreases parasite diversity: theory and patterns.** *Philosophical Transactions of the Royal Society B* 367(1604): 2814-2827. doi: 10.1098/rstb.2012.0110 <http://www.werc.usgs.gov/ProductDetails.aspx?ID=4786>

NEW DATA PAPERS

Ellis, MM., JL Williams, P Lesica, TJ Bell, P Bierzychudek, M Bowles, EE Crone, DF Doak, J Ehrlen, A Ellis-Adam, **K McEachern**, R Ganesan, P Latham, S Luijten, TN Kaye, TM Knight, ES Menges, WF Morris, H den Nijs, G Oostermeijer, PF Quintana-Ascencio, JS Shelly, A Stanley, A Thorpe, T Ticktin, T Valverde, CW Weekley. 2012. **Matrix population models from 20 long-term studies of perennial plant populations.** *Ecology* 93:951/*Ecological Archives* E093-083. doi: 10.1890/11-1052.1 <http://www.werc.usgs.gov/ProductDetails.aspx?ID=4785>

EVENTS

Sept. 24, 2012 (Santa Barbara, CA)
 WERC scientist **Nicole LaRoche** will discuss sea otter research in California at a free public lecture hosted by the **Santa Barbara Maritime Museum**. Part of **Sea Otter Awareness Week**.

<http://www.werc.usgs.gov/Event.aspx?ID=122>

Sept. 27-30, 2012 (San Diego, CA)
 WERC scientists from the **San Diego Field Station** will speak with kids and parents and hand out coloring sheets at the **San Diego Zoo's 2012 Reptilemania**. (NOTE: The dates of this event listed in past issues were incorrect. Our apologies.)

<http://www.werc.usgs.gov/Event.aspx?ID=115>

Sept. 27, 2012 (Menlo Park, CA)
 USGS Alaska Science Center scientist **James Bodkin** will discuss WERC and USGS **Pacific Nearshore Project** in this free public lecture and live webcast. Part of **Sea Otter Awareness Week**.

<http://www.werc.usgs.gov/Event.aspx?ID=116>

Sept. 27, 2012 (Webinar)
 In this USGS webinar, WERC scientist **John Takekawa** will discuss new research modeling on sea level rise impacts to coastal marshes along the Pacific Coast.

<http://www.werc.usgs.gov/Event.aspx?ID=121>

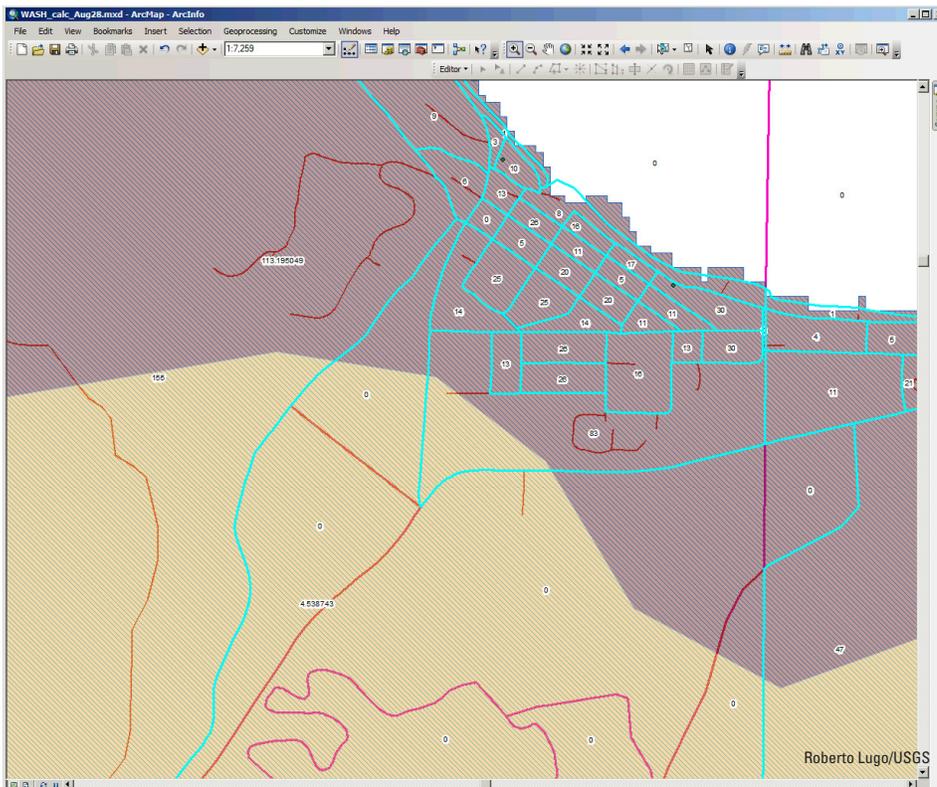
Sept. 29, 2012 (Monterey, CA)
 WERC scientists **Ben Weitzman** and **Joe Tomoleoni** will speak at the **2012 AAUS Diving for Science Symposium** on research diving techniques used in USGS sea otter studies.

<http://www.werc.usgs.gov/Event.aspx?ID=116>

October 2, 2012 (Sacramento, CA)
Peter Coates will explain WERC research on greater sage-grouse as part of the **CSU Sacramento Fall Ecology Colloquium**.

<http://www.werc.usgs.gov/Event.aspx?ID=118>

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Linking Populations with Watersheds

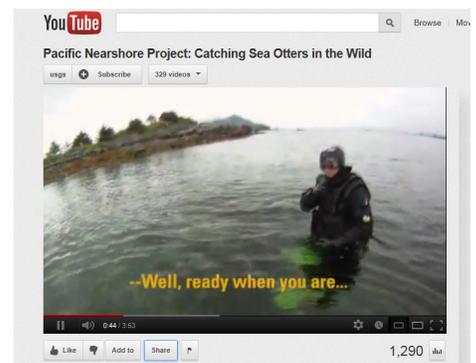
Researchers collaborating on the **Pacific Nearshore Project** are trying to integrate data from coastal terrestrial systems with nearshore marine systems in order to model the land-sea interactions that drive nearshore marine productivity and health — including those of finfish and sea otters — and compare trends from California north to Alaska. WERC scientists **Roberto Lugo** and **Bill Perry** have been testing ways to extrapolate existing population data to enhance the model, and arrived at an interpolation method which extrapolates U.S. Census block data onto roadways, then clipped by subwatershed boundaries (roughly HUC14). Researchers and modelers who wish to comment or offer ideas on the method can reach Lugo at rlugo@usgs.gov.

IN THE NEWS

Adak Caribou: Invasive Species or Meals on the Hoof? (Anchorage Press)
 Reporter Mary Lochner mentions WERC scientist **Mark Ricca's** *Biological Invasions* study on the nonnative caribou populations on Adak Island in Alaska.
http://www.anchoragepress.com/news/article_c22217da-f2fd-11e1-8221-0019bb2963f4.html

Greater Sandhill Cranes Glide into California's Central Valley Early This Year (Sacramento Bee)
 Reporter Edward Ortiz's story features WERC data and interviews **Mike Casazza** research collaborator Gary Ivey of the International Crane Foundation.
<http://www.sacbee.com/2012/09/02/4779552/greater-sandhill-cranes-glide.html>

Endangered Mountain Yellow-Legged Frogs Might Get a Hoppy Ending (Los Angeles Times)
 Reporter Louis Sahagun accompanied WERC scientists **Adam Backlin** and **Liz Gallegos** into the San Gabriel Mountains and provides an update on the recovery of the federally listed *Rana muscosa*.
<http://www.latimes.com/news/local/la-me-frog-refuge-20120916,0,4132145.story>



WATCH ON YOUTUBE

Visit the USGS YouTube Channel to watch the **“Catching Sea Otters in the Wild”** and **“Dry Suits”** videos, featuring scientists from the USGS Alaska Science Center and WERC. Footage was shot by ASC scientist **Vanessa von Biela** during the 2011 Alaska expedition of the **Pacific Nearshore Project**. WERC produced the films, edited by CSU Humboldt student and former USGS Calif. Water Science Center intern **Martha Aimé Cardona**.
<http://youtu.be/w3Yw2wdQXzc>
<http://youtu.be/xWMo0RR7C8s>