



*Alagnak*

*Aniakchak*

*Katmai*

*Kenai Fjords*

**Lake Clark**

# 2013 Spring Update: LACL

## Monitoring Effects of Spruce Beetle

In August, the SWAN vegetation crew will establish a set of new forest plots to monitor spruce beetle effects. Over 26,000 acres of spruce beetle activity have been recorded in southwest Alaska since 2011, most of it centered on southern Lake Clark and central Katmai. In LACL, new sites will be established in undisturbed forest at Two Lakes, Telaquana and Portage Lake, and in disturbed stands around the Lake Clark, Kontrashibuna and Tazimina Lake basins. Data on tree age, mortality, regeneration, and fuels will provide information on forest condition for ongoing monitoring.



**Evidence of a beetle kill as seen from the air in Lake Clark NP&P (NPS photo)**

## Additional Bald Eagle Surveys

In 2013 the Southwest Alaska Network will partner with Lake Clark staff to complete another year of bald eagle surveys. In addition to the normal sampling in early May and late July, we will add another sampling period in late May to improve our ability to meet project goals. Additionally, SWAN is coordinating an effort to develop a centralized database for bald eagle nest data collected in three SWAN parks: Lake Clark, Katmai, and Kenai Fjords. Contact Tammy Wilson or Buck Mangipane for more information.



**SWAN and park scientists will conduct bald eagle surveys this summer (NPS photo)**

## Recent Publications

Tammy Wilson and Claudette Moore. 2013. A Review of Lake Vertical Profile Monitoring in SWAN. IRMA Reference # 2193310

Chuck Lindsay. 2013. SWAN Climate Monitoring Annual Report (2012). IRMA # 2194064



**Measuring discharge in LACL (NPS photo)**

## 2013 SWAN Field Plans in Lake Clark

*All dates are flexible and subject to change based on weather and other conditions*

### May

Bald Eagle Nest Monitoring  
Dates: two trips: early and late May  
Contacts: Tammy Wilson, Buck Mangipane

Chigmit Mountains Weather Station Maintenance  
Dates: May 20-June 7  
Contact: Chuck Lindsay

River Gauging, Lake Level Monitoring  
Dates: Deploy in May, retrieve in October  
Contact: Dan Young

### June

Hickerson and Snipe Lake Weather Stations Maintenance  
Dates: June 14 to 18  
Contact: Chuck Lindsay

Vegetation Monitoring  
Dates: June 10 -14  
Contacts: Amy Miller, James Walton

### July

Silver Salmon Creek Weather Station Set-up  
Dates: July 9 - 10  
Contact: Chuck Lindsay

Bald Eagle Productivity Monitoring  
Dates: late July  
Contacts: Tammy Wilson, Buck Mangipane

### August

Vegetation Monitoring  
Dates: August 23 - September 3  
Contacts: Amy Miller, James Walton

Water Quality & Lake Profile Sampling Lake Clark, Kijik Lake  
Dates: TBD, late July - early August  
Contact: Dan Young