

PRBO Conservation Science  
3820 Cypress Drive #11  
Petaluma, CA 94954  
707-781-2555  
www.prbo.org



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**Contact:**

Nat Seavy, *Research Director, Pacific Coast and Central Valley Group*, (415) 868-0655 ext. 311, [nseavy@prbo.org](mailto:nseavy@prbo.org)

Diana Humple, *Palomarin Field Station Manager*, (415) 868-0655 ext 386, [dhumple@prbo.org](mailto:dhumple@prbo.org)

Melissa Pitkin, *Outreach Director*, (707) 781-2555 ext 307, [mpitkin@prbo.org](mailto:mpitkin@prbo.org)

**New Technology tracks sparrow migration for first time from California to Alaska**

Using tiny tags to track a bird's location, biologists from PRBO Conservation Science (PRBO) have unlocked the mystery of where Golden-crowned Sparrows, which overwinter in California, go to breed in the spring. Published this week in the journal PLoS ONE, the study reveals for the first time the exact migration route of this small songbird to its breeding sites in coastal Alaska.

During a time when birds are experiencing the negative impacts of climate and land-use changes, being able to pinpoint the most important breeding and stopover places is critical to prioritizing conservation investments.

PRBO scientists attached small tags that record day length to Golden-crowned Sparrows wintering in and near Point Reyes National Seashore before they headed north on spring migration. When the birds returned the following fall, four tagged birds were safely recaptured, the tags were removed, and the data downloaded to a computer.

“This study is helping to unravel the mystery of bird migration and answer the age-old question of where birds go, which helps protect habitat along their entire migratory journey,” said lead author, PRBO’s Dr. Nat Seavy.

Each bird, which weighs approximately 30 grams, migrated from 1600 to 2400 miles one-way to their breeding grounds. Their individual breeding locations spanned approximately 750 miles along the coast of Alaska, and their north migration averaged only 29 days while southbound migration averaged nearly twice that (53 days).

“Until now, all we knew was that these birds bred far to the north and undertook one of the longest migrations of all songbirds that winter in central California. We’re very excited to finally pinpoint exactly where some of our Golden-crowned

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Sparrows breed,” explained Diana Humple, PRBO’s Palomarin Field Station Manager and a co-author of the study.

Operating since 1966, PRBO’s Palomarin Field Station has been one of the premier west-coast locations for long-term studies on birds and their habitats. These data sets that extend over several decades allow scientists to assess human-caused and natural changes over time to guide conservation action.

The breeding locations for the four birds included areas of Katmai National Park, Wrangell-St. Elias National Park, and the Chugach National Forest.

“Today we are facing unprecedented changes in land-use and our climate” explained Nat Seavy. “The information in this study will help us understand where our migratory birds may be vulnerable to these changes, and what we can do to help protect them and the ecosystems on which they—and we—depend.”

Co-authors along with Nat Seavy and Diana Humple, were Renée Cormier and Tom Gardali also of PRBO. The manuscript was published in the journal PLoS ONE.

Link to the paper: <http://dx.plos.org/10.1371/journal.pone.0034886>.

**About PRBO Conservation Science:**

PRBO Conservation Science, founded as Point Reyes Bird Observatory in 1965, works to conserve birds, other wildlife and ecosystems through innovative scientific research and outreach. We partner with hundreds of governmental and non-governmental agencies as well as private interests to ensure that every dollar invested in conservation yields the most for biodiversity -- benefiting our environment, our economy and our communities. Visit PRBO on the web at [www.prbo.org](http://www.prbo.org).