

## Chapter 1

# Ecology and Conservation of the Marbled Murrelet in North America: an Overview

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**Abstract:** Over the past decade, the Marbled Murrelet has become a focus of much controversy. It was listed as threatened in Washington, Oregon, and California by the U.S. Fish and Wildlife Service in February 1993. In order to aid the various agencies with management, the Marbled Murrelet Conservation Assessment was formed to bring together scientists, managers, and others to gather all the available data on this small seabird. This volume of research is the culmination of that effort. In this chapter, we integrate the results of the investigations and summaries on the past history, present status, and possible future of the species, based on the data presented in this volume and other published research. We also propose what we consider the most important research needs. Then, based on the findings of this volume, we suggest actions for management to help ensure the survival of the species.

The recent decline and fragmentation of Marbled Murrelet (*Brachyramphus marmoratus*) populations in the southern portion of its range (California, Oregon, and Washington) resulted in an awareness that the species was in need of protection or it risked extirpation. In 1982 and 1986, the Pacific Seabird Group developed a set of resolutions that called attention to the Marbled Murrelet and the threats it faced. The Group requested that the appropriate agencies involved in management decisions consider research about the species. The response from the agencies was muted at best. On January 15, 1988, the National Audubon Society petitioned the U.S. Fish and Wildlife Service to list the California, Oregon, and Washington populations of the species as a threatened species. The Service's 90-day finding stated that the petition had presented substantial information to indicate that the requested action may be warranted. It was published in the Federal Register on October 17, 1988. Because of increased research efforts and the amount of new data available, several public comment periods were opened to receive additional information on the species and the potential threats to it. On the basis of the positive 90-day finding, the Marbled Murrelet was added to the Service's Notice of Review for Vertebrate Wildlife as a Category 2 Species for listing.

In 1990, the Marbled Murrelet was proposed as a threatened species by the British Columbia Ministry of Environment, Lands, and Parks to the Committee on the Status of Endangered Wildlife in Canada. The species was designated as nationally threatened in June 1990. A recovery team was established in September of that year and was unique to Canada because it included representatives of both the federal and provincial governments, the forest industry, environmental non-governmental organizations, and academia. The species was listed as threatened mainly because of loss of nesting habitat, but also because of fishing-net mortality and the threat of oil spills.

In 1991, the State of California listed the species as endangered because of the loss of older forests. On June 20, 1991, the U.S. Fish and Wildlife Service published a proposed rule in the Federal Register to designate it as a threatened species in Washington, Oregon, and California. The main reason for listing was the loss of older forest nesting habitat. Secondary threats included loss due to net fisheries and the potential threat of oil spills. In July 1992, the U.S. Fish and Wildlife Service published another notice in the Federal Register announcing a 6-month extension for determining the status of Marbled Murrelets. However, the Service was taken to court for not meeting the legal time frames provided for in the Endangered Species Act and, in September 1992, published a final rule in the Federal Register, listing the Marbled Murrelet as a threatened species in the three States. A recovery team was established in February 1993 and is now in the final stages of a recovery plan for the three-State area (U.S. Fish and Wildlife Service, in press).

The State of Washington is now reviewing a recommendation to classify the Marbled Murrelet as a threatened species. To date, the Marbled Murrelet has not been recommended for listing in Oregon.

This chapter reviews the results of published research and new investigations presented in this volume, discusses the likely future of the species and its habitat in North America, and outlines the actions considered necessary to maintain viable populations.

## Background and Assessment of Available Information

### Distribution and Habitat

**Summary—***Marbled Murrelets in North America occur from the Bering Sea to central California. During the breeding season, the majority of murrelets are found offshore of late successional and old-growth forests, located mostly within 60*

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# Ecology Conservation Of The Marbled Mu

**Daniel S. Cooper**



## **Ecology Conservation Of The Marbled Mu:**

*Ecology and Conservation of the Marbled Murrelet* C. John Ralph, 1995      *Status and Conservation of the Marbled Murrelet in North America* ,1992      **Surveying Marbled Murrelets at Inland Forested Sites** ,1990      **The Condor** ,2002      **Conservation Biology of Hawaiian Forest Birds** Thane K. Pratt, Carter T. Atkinson, Paul C. Banko, Bethany L. Woodworth, James D. Jacobi, 2009-01-01 Hawaii's forest bird community is the most insular and most endangered in the world and serves as a case study for threatened species globally Ten have disappeared in the past thirty years nine are critically endangered and even common species are currently in decline Thane K Pratt his coeditors and collaborators all leaders in their field describe the research and conservation efforts over the past thirty years to save Hawaii's forest birds They also offer the most comprehensive look at the reasons for these extinctions and attempts to overcome them in the future Among the topics covered in this book are trends in bird populations environmental and genetic factors limiting population size avian diseases predators and competing alien bird species Color plates by award winning local photographer Jack Jeffrey illustrate all living species discussed or described      *Evolution, Ecology, Conservation, and Management of Hawaiian Birds* J. Michael Scott, Charles Van Riper, 2001 Book on the changes to the Hawaiian avifauna and articles by various authors on the subject of Hawaiian birds      *Ecology and Conservation of the Marbled Murrelet* C. John Ralph, 1997-04 This report was compiled describes past potential effects of humans on the species habitats Future research needs possible management strategies for both marine forest habitats are suggested Charts tables      **Ecology and Conservation of the Marbled Murrelet** C. John Ralph, 1995      **Important Bird Areas of California** Daniel S. Cooper, 2004      *Okanogan-Wenatchee National Forests (N.F.), White Pass Expansion, Master Development Plan Proposal* ,2007      **Molecular Ecology** Joanna R. Freeland, 2006-03-30 Molecular Ecology provides a comprehensive introduction to the many diverse aspects of this subject The book unites theory with examples from a wide range of taxa in a logical and progressive manner and its accessible writing style makes subjects such as population genetics and phylogenetics highly comprehensible to its readers The first part of the book introduces the essential underpinnings of molecular ecology starting with a review of genetics and a discussion of the molecular markers that are most frequently used in ecological research This leads into an overview of population genetics in ecology The second half of the book then moves on to specific applications of molecular ecology covering phylogeography behavioural ecology and conservation genetics The final chapter looks at molecular ecology in a wider context by using a number of case studies that are relevant to various economic and social concerns including wildlife forensics agriculture and overfishing comprehensive overview of the different aspects of molecular ecology attention to both theoretical and applied concerns accessible writing style and logical structure numerous up to date examples and references This will be an invaluable reference for those studying molecular ecology population genetics evolutionary biology conservation genetics and behavioural ecology as well as researchers working in these fields      **Dissertation Abstracts**

**International** ,2005      *Conservation Biology* Fred Van Dyke,Rachel L. Lamb,2020-07-07 This book provides a thorough up to date examination of conservation biology and the many supporting disciplines that comprise conservation science In this the Third Edition of the highly successful *Conservation Biology Foundations Concepts Applications* the authors address their interdisciplinary topic as it must now be practiced and perceived in the modern world Beginning with a concise review of the history of conservation the authors go on to explore the interplay of conservation with genetics demography habitat and landscape aquatic environments and ecosystem management and the relationship of all these disciplines to ethics economics law and policy An entirely new chapter *The Anthropocene Conservation in a Human Dominated Nature* breaks new ground in its exploration of how conservation can be practiced in anthropogenic biomes novel ecosystems and urban habitats The Third Edition includes the popular *Points of Engagement* discussion questions used in earlier editions and adds a new feature *Information Boxes* which briefly recap specific case histories described in the text A concluding chapter offers insight into how to become a conservation professional in both traditional and non traditional roles The authors Fred Van Dyke and Rachel Lamb draw on their expertise as field biologists wildlife managers consultants to government and industry and scholars of environmental law policy and advocacy as well as their many years of effective teaching experience Informed by practical knowledge and acquired skills the authors have created a work of exceptional clarity and readability which encompasses both systemic foundations as well as contemporary developments in the field *Conservation Biology Foundations Concepts Applications* will be of invaluable benefit to undergraduate and graduate students as well as to working conservation scientists and managers This is an amazing resource for students faculty and practitioners both new and experienced to the field Diane Debinski PhD Unexcelled wisdom for living at home on Wonderland Earth the planet with promise destined for abundant life Holmes Rolston PhD Van Dyke and Lamb have maintained the original text s emphasis on connecting classical ecological and environmental work with updated modern applications and lucid examples But more importantly the third edition contains much new material on the human side of conservation including expanded treatments of policy economics and climate change Tim Van Deelen PhD Fred Van Dyke and Rachel Lamb break new ground in both the breadth and depth of their review and analysis of this crucially important and rapidly changing field Any student or other reader wishing to have a comprehensive overview and understanding of the complexities of conservation biology need look no further this book is your starting point Simon N Stuart PhD Anyone who teaches talks or writes and works on Conservation Biology needs this latest edition of *Conservation Biology Foundations Concepts Applications* 3rd edition by Fred Van Dyke and Rachel L Lamb This will be useful to both beginners and experts as well The authors included almost all important issues in relation to conservation biology This is really an outstanding book Bidhan Chandra Das Professor Ecology Branch Department of Zoology University of Rajshahi Bangladesh      *Ecology and Conservation of the Marbled Murrelet* ,  
*Proceedings of the Western Foundation of Vertebrate Zoology* ,1992      **Ecology and Conservation of the Marbled**

**Murrelet** ,1995      **Ecology and Conservation of the Marbled Murrelet (Classic Reprint)** ,2015-08-04 Excerpt from Ecology and Conservation of the Marbled Murrelet This report on the Marbled Murrelet *Brachyramphus marmoratus* was compiled and edited by the interagency Marbled Murrelet Conservation Assessment Core Team The 37 chapters cover both original studies and literature reviews of many aspects of the species biology ecology and conservation needs It includes new information on the forest habitat used for nesting marine distribution and demographic analyses and describes past and potential effects of humans on the species habitats Future research needs and possible management strategies for both marine and forest habitats are suggested Retrieval Terms *Brachyramphus marmoratus* Marbled Murrelet old growth forests habitat use marine distribution seabird About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books Find more at [www.forgottenbooks.com](http://www.forgottenbooks.com) This book is a reproduction of an important historical work Forgotten Books uses state of the art technology to digitally reconstruct the work preserving the original format whilst repairing imperfections present in the aged copy In rare cases an imperfection in the original such as a blemish or missing page may be replicated in our edition We do however repair the vast majority of imperfections successfully any imperfections that remain are intentionally left to preserve the state of such historical works      [Amphibian Declines](#) Michael J. Lannoo,2005-06-15 Documents in comprehensive detail a major environmental crisis rapidly declining amphibian populations and the disturbing developmental problems that are increasingly prevalent within many amphibian species      [Pacific Seabirds](#) Pacific Seabird Group,1994      *Shasta-Trinity National Forest (N.F.), Motorized Travel Management* ,2010

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