CONTENTS

Foreword ............................................................................................................................................................... v
Preface .................................................................................................................................................................. vi
Acknowledgments.................................................................................................................................................. vii

Part I • Introduction

Trends and traditions: Overview and synthesis ...................................................................................................... 2
W. David Shuford, Robert E. Gill Jr., and Colleen M. Handel

Part II • Changes in Distribution

Joseph Grinnell meets eBird: Climate change and 100 years of latitudinal movement in the avifauna of the Californias .................................................................................................................. 12
Richard A. Erickson, Kimball L. Garrett, Eduardo Palacios, Stephen C. Rottenborn, and Philip Unitt

Changes in the abundance and distribution of waterfowl wintering in the Central Valley of California, 1973–2000 .................................................................................................................................................. 50
Joseph P. Fleskes, Michael L. Casazza, Cory T. Overton, Elliott L. Matchett, and Julie L. Yee

Differential breeding range shifts of ravens (Corvus spp.) on the southern Great Plains ........................................ 75
David A. Wiggins

Southward and downslope extensions of breeding ranges of birds in southern California ........................................ 85
Philip Unitt and Lori Hargrove

Introducing change: A current look at naturalized bird species in western North America .................................. 116
Kimball L. Garrett

Part III • Population Trends and Changing Demographics

Natural history and recovery of Arctic Peregrine Falcons along the Colville River, Alaska, 1981–2011 .............. 132
Ted Swem and Angela C. Matz


Recent trends in population size and distribution of Ring-billed and California gulls in the western United States ........................................................................................................................................ 161
Robert H. Doster and W. David Shuford

California Gull population growth and ecological impacts in the San Francisco Bay estuary, 1980–2016 ........ 180
Catherine E. Burns, Joshua T. Ackerman, Natalie B. Washburn, Jill Blus-Demers, Caitlin Robinson-Nilsen, and Cheryl Strong

Long-term declines in the Pinyon Jay and management implications for piñon–juniper woodlands .................. 190
John D. Boone, Elisabeth Ammon, and Kristine Johnson

Avian population trends based on 27 years of data from California oak woodlands ........................................ 198
Kathryn L. Purcell and Sylvia R. Mori

Population trends of birds wintering in the Central Valley of California .......................................................... 215
Edward R. Pandolfino and Colleen M. Handel

Trends in abundance of wintering waterbirds relative to rainfall patterns at a central California estuary, 1972–2015 .................................................................................................................. 236
Lynne E. Stenzel and Gary W. Page

Changes in abundance, productivity, and distribution of western American White Pelicans (Pelecanus erythrorhynchus), 1981–2014 .................................................................................................. 258
Colleen E. Moulton, Shane B. Roberts, Jon S. Horne, and Martha Wackenhut
Population changes and their demographic drivers in landbirds of western North America:
An assessment from the Monitoring Avian Productivity and Survivorship program .......................... 269
David F. DeSante, Danielle R. Kaschube, and James F. Saracco

PART IV • RESPONSE TO CHANGES IN CLIMATE AND THE ENVIRONMENT:

Shorebirds adjust spring arrival schedules with variable environmental conditions:
Four decades of assessment on the Yukon–Kuskokwim Delta, Alaska ............................................. 296
Craig R. Ely, Brian J. McCaffery, and Robert E. Gill Jr

An evaluation of 60 years of shorebird response to environmental change at Utqiaġvik (Barrow), Alaska .......... 312
Audrey R. Taylor, Richard B. Lanctot, and Richard T. Holmes

Evidence of the effects of climate change on landbirds in western North America:
A review and recommendations for future research ................................................................. 331
Nathaniel E. Seavy, Diana L. Humple, Renée L. Cormier, Elizabeth L. Porzig, and Thomas Gardali

Modeling the response of oak woodland birds to changing climate using 27 years of monitoring data .......... 344
Kathryn L. Purcell and Sylvia R. Mori

Responses of birds to large-scale wildfires in southern California ................................................ 374
Lori Hargrove and Philip Unitt

Breeding bird changes during 50 years of post-fire succession in the Sierra Nevada ................................ 400
Martin G. Raphael, Daniel A. Airola, Gary A. Falxa, Roger D. Harris, and Peter A. Stine

Changing fire regimes and faunal responses: Habitat use by Flammulated Owls after fire in Colorado .......... 419
Scott W. Yanco and Brian D. Linkhart

Some broad-scale effects of recent and future climate change among migratory birds in Beringia .......... 432
Kevin Winker and Daniel D. Gibson

PART V • LOOKING BACK–LOOKING FORWARD:

Avifaunal change in southern California from an archaeological perspective ..................................... 442
Susan Arter, Aharon Sasson, and Philip Unitt

Systematics, population genetics, and taxonomy, and their importance for tracking avifaunal change ........ 453
Kevin Winker

THANKS TO OUR DONORS ............................................................................................................ 466