

CONTENTS

Contributors / vii

Editors / xi

Preface / xiii

Part I • Conservation and Management

- 1 • LEAPS, CHAINS, AND CLIMATE CHANGE
FOR WESTERN MIGRATORY SONGBIRDS / 3**
Joseph J. Fontaine, Ryan J. Stutzman,
and Leonard Z. Gannes

- 2 • LANDBIRD STOPOVER IN THE GREAT
LAKES REGION: INTEGRATING
HABITAT USE AND CLIMATE CHANGE IN
CONSERVATION / 17**
David N. Ewert, Kimberly R. Hall,
Robert J. Smith, and Paul G. Rodewald

- 3 • A BIRD'S-EYE VIEW OF THE USA
NATIONAL PHENOLOGY NETWORK: AN
OFF-THE-SHELF MONITORING PROGRAM / 47**
Jherime L. Kellermann, Carolyn A. F.
Enquist, Diana L. Humple, Nathaniel
E. Seavy, Alyssa Rosemartin, Renée L.
Cormier, and LoriAnne Barnett

Part II • Migratory Connectivity

- 4 • SPRING RESOURCE PHENOLOGY AND
TIMING OF SONGBIRD MIGRATION
ACROSS THE GULF OF MEXICO / 63**
Emily B. Cohen, Zoltán Németh,
Theodore J. Zenzal, Jr., Kristina
L. Paxton, Robert Diehl, Eben H.
Paxton, and Frank R. Moore

- 5 • CLIMATE ON WINTERING GROUNDS
DRIVES SPRING ARRIVAL OF SHORT-
DISTANCE MIGRANTS TO THE UPPER
MIDWEST / 83**
Benjamin Zuckerberg, Eric J. Ross,
Karine Princé, and David N. Bonter

Part III • Spring Migration

- 6 • PHENOLOGICAL ASYNCHRONY
BETWEEN MIGRANT SONGBIRDS AND
FOOD RESOURCES DURING EARLY
SPRINGS: INITIATION OF A TROPHIC
CASCADE AT A STOPOVER SITE / 97**
Paul K. Strode
- 7 • CLIMATIC EXTREMES INFLUENCE SPRING
TREE PHENOLOGY AND MIGRATORY
SONGBIRD FORAGING BEHAVIOR / 117**
Eric M. Wood and Anna M. Pidgeon

- 8 • PHENOLOGICAL SYNCHRONY OF BIRD MIGRATION WITH TREE FLOWERING AT DESERT RIPARIAN STOPOVER SITES / 133

Jherime L. Kellermann and Charles van Riper III

- 9 • SHOREBIRD MIGRATION IN THE FACE OF CLIMATE CHANGE: POTENTIAL SHIFTS IN MIGRATION PHENOLOGY AND RESOURCE AVAILABILITY / 145

Ryan J. Stutzman and Joseph J. Fontaine

Part IV • Fall Migration

- 10 • MATCHING EPHEMERAL RESOURCES ON AUTUMNAL STOPOVER AND THE POTENTIAL FOR MISMATCH / 163

Brian J. Olsen, Jennifer D. McCabe, Evan M. Adams, David P. Grunzel, and Adrienne J. Leppold

- 11 • ANNUAL VARIATION IN AUTUMN MIGRATION PHENOLOGY AND ENERGETIC CONDITION AT A STOPOVER SITE IN THE WESTERN UNITED STATES / 177

Robert A. Miller, Jay D. Carlisle, Neil Paprocki, Gregory S. Kaltenecker, and Julie A. Heath

- 12 • AUTUMN MIGRATION OF NORTH AMERICAN LANDBIRDS / 193

Elizabeth R. Ellwood, Amanda Gallinat, Richard B. Primack, and Trevor L. Lloyd-Evans

Appendix A / 207

Index / 211

Complete Series List / 227