

Article



Catalog of the New World Biting Midges North of Mexico (Diptera: Ceratopogonidae)

ART BORKENT1 and WILLIAM L. GROGAN, JR.2

1. Research Associate, Royal British Columbia Museum, American Museum of Natural History, and Instituto Nacional de Biodiversidad (INBio), Costa Rica.

691-8th Ave. SE, Salmon Arm, British Columbia, VIE 2C2, Canada.

Email: aborkent@sunlite.ca

2. Research Associate, Florida State Collection of Arthropods, Florida Dept. of Agriculture and Consumer Services, 1911 SW 34th Street, Gainesville, FL 32614-7100, USA.

Email: groganw@doacs.state.fl.us

TABLE OF CONTENTS

ABSTRACT	
INTRODUCTION	1
SUBFAMILY LEPTOCONOPINAE	4
SUBFAMILY FORCIPOMYIINAE	
SUBFAMILY DASYHELEINAE	
SUBFAMILY CERATOPOGONINAE	12
TRIBE CULICOIDINI	12
TRIBE CERATOPOGONINI	
TRIBE HETEROMYIINI	
TRIBE SPHAEROMIINI	
TRIBE PALPOMYIINI	25
TRIBE STENOXENINI	29
ACKNOWLEDGMENTS	
REFERENCES	29
INDEX OF TAXA	//1

ABSTRACT

This catalog of the biting midges (Diptera: Ceratopogonidae) of the New World north of Mexico includes 603 species and 39 genera. The full citation, province or state of the type locality and distribution by province and/or state of each species is given. The most recent revision for each genus, subgenus and species group is cited.

Key words: Ceratopogonidae, biting midges, catalog, Nearctic, distribution

INTRODUCTION

The Ceratopogonidae are a fascinating group of small flies, commonly known in North America as biting midges, no-see-ums, punkies and sometimes sand flies. The group is diverse, with 5,978 extant species presently recognized worldwide (Borkent, 2009) but it is likely that at least three times this number of species are actually present. An important role for systematists is to catalog known species. Such lists form the basis for inventories for specific geographic regions and provide an overview of the known species diversity. The